



ASIMETO
VALUE+

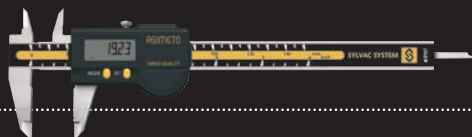
CATALOG NO. AS1302

INDEX

6 Micrometers



46 Calipers



76 Depth & Height Gauges



86 Indicator & Dial Gauges



128 Bore Gauges



134 Other Gauges



160 Gauges



182 Testers & Optical Instrument



Asimeto. Exactly what you need.

Everything we do is as exacting as the tools we make. Asimeto is the creator and manufacturer of high-precision measuring instruments - designed and registered exclusively in Germany. Asimeto tools are very competitively priced and are sold through the Asimeto distribution network. Our ultimate commitment to quality allows us to ensure strict production standards and reliable technical service for our global customers.

Asimeto is the first in the industry to deliver the **Value Plus** program to guarantee the accuracy and reliability of all products. This means every Asimeto tool is supplied with its own calibration certificate - so customers can be confident that the measuring accuracy conforms to the applicable national specification. All tools are calibrated by our world-class lab at no extra charge to the customer.

Asimeto has exactly what you need.

Introduction to Asimeto Calibration Laboratory

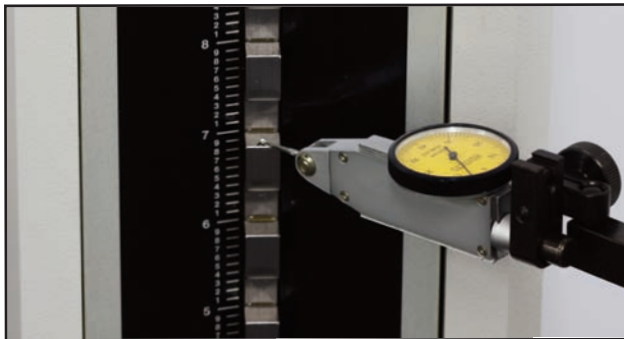
The quality and measuring accuracy of all Asimeto precision tools is guaranteed by the Asimeto Calibration Laboratory. All tools are inspected for conformance to the Asimeto design specifications and are then processed through the Asimeto calibration laboratory. Only the latest state of the art calibration equipment has been selected, from the leading global manufacturers, to ensure that the calibration costs are contained by increasing throughput, without compromising measurement accuracy or repeatability.

The Asimeto Calibration Laboratory has designed and incorporated universal calibration software that applies the applicable accuracy standard to the specific destination market of the precision measuring tool. ASME, DIN and JJG are all supported.

It all means precisely that the dedication and diligence of the Asimeto Calibration Laboratory assures you that the accuracy is within the specifications of your local standard.

ASIMETO

Calibration Lab Report



2

Product Description

Calibration Certificate

ASIMETO
VALUE+

Part Number 105-02-1 Tool DIGITAL OUTSIDE MICROMETER
 Serial Number 101148840 Range 1" - 2"
 Standard Name ASME B89 Resolution 0.00005"

Visual Inspection Passed
 Function Inspection Passed

Outside Measurements

Reading	Nominal Value	Tolerance +/-	Deviation +/-	Disposition*
1	1.00000	0.0002"	0.00000	☒
2	1.14900	0.0002"	0.00005	☒
3	1.40000	0.0002"	0.00000	☒
4	1.60000	0.0002"	0.00000	☒
5	1.85000	0.0002"	-0.00005	☒
6	2.00000	0.0002"	-0.00010	☒

Disposition

Inspection Point
& Result

1

3

Inspection Serial Number

NIST Number

PTB Number

Gauge Block Set 530-40 07-54907-A 4939 PTB 05

Humidity 50 % +/- 15 %
 Temperature 20 °C +/- 0.5 °C
 Uncertainty 1.5 µm + 10⁻⁶ × L
 Inspector Name Alex

* Check mark indicates within tolerance



Asimeto Inc. www.asimeto.com



Traceable No.

4

Data Collection Measuring Tools



ABS Digital Caliper



Standard Digital Caliper



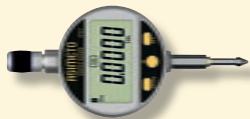
Sylvac System



Digital Micrometer



Digital Indicator



Sylvac System

Control your manufacturing process using the Asimeto Statistical Software. It blends ease of use with flexibility and can be used with a multitude of data collection measuring tools.

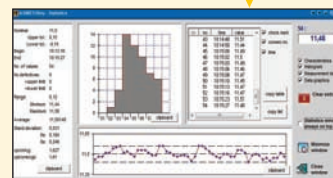
Asimeto SPC Software

The virtual keyboard collects data and transmits directly into Microsoft standard software (Excel, Access)

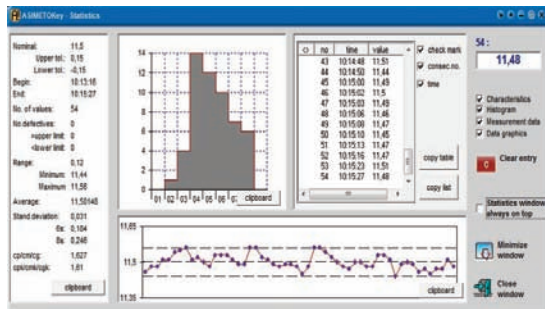


MeasureReport

	A1	A2	A3
1	10.02	15.53	20.44
2	10.04	15.53	20.46
3	10.01	15.52	20.44
4	10.01	15.53	20.45
5	10.02	15.54	20.46
Average	10.02	15.53	20.45



SPC and Preprocessing Software



Asimeto Lite Software

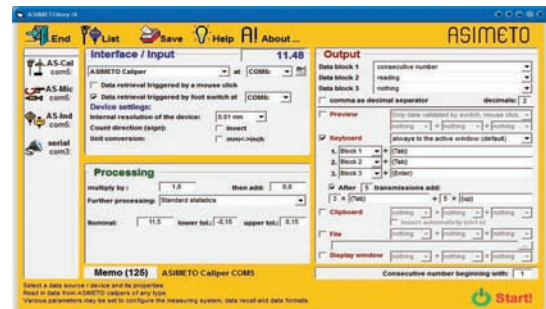
- Connects to Asimeto Tools, Using one USB port

FEATURES

- Individual item chart
- Xbar-R control chart
- Xbar-S control chart
- X-Rs control chart
- Histogram
- Run chart
- Export to the CSV file
- Statistics
 - Maximum value
 - Minimum value
 - Average
 - Standard deviation S, Rbar/d2
 - Process capability Cp, Cpk, Pp, Ppk

SPECIFICATIONS

Description	Remark	Code No.
Asimeto Lite	1 Chanel	7901010
Asimeto Plus	4 Chanel	7901020



Asimeto Plus Software

- Connects to Asimeto, Mitutoyo, Mahr, Tesa & Sylvac
- Uses a four port USB hub allowing up to four measuring devices.
- Tools from different suppliers can be used in the same measuring sequence

SPC Cable

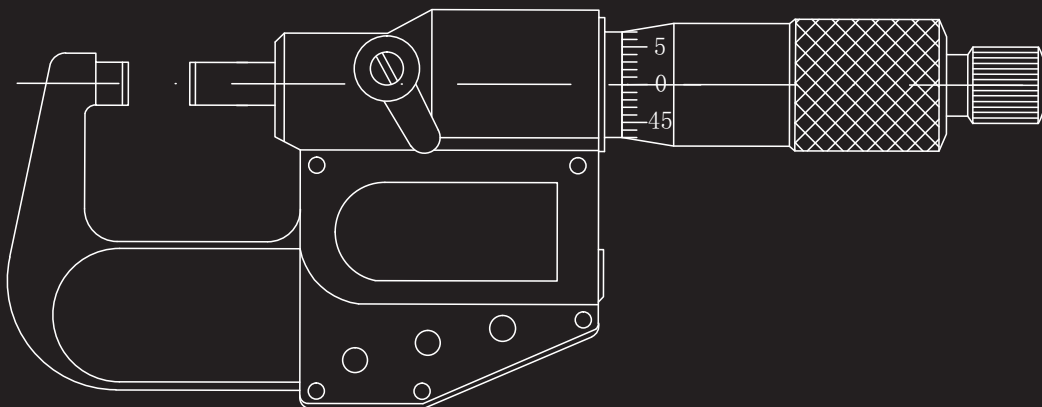
- Length: 2m

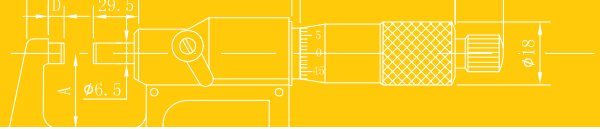
	Used For	Interface to PC	Data	Asimeto SPC Software	Code No.
	ABS Digital Caliper	USB	Virtual Com Port	Yes	7900011
		USB	Keyboard	No	7900010
	Digital Micrometer	USB	Virtual Com Port	Yes	7900101
		USB	Keyboard	No	7900100
	Digital Indicator	USB	Virtual Com Port	Yes	7900201
		USB	Keyboard	No	7900200
	Standard Digital Caliper	USB	Virtual Com Port	Yes	7900021
	Sylvac System	USB	Virtual Com Port	Yes	7900031

Remark: For more information visit our we site at www.asimeto.com

Micrometers

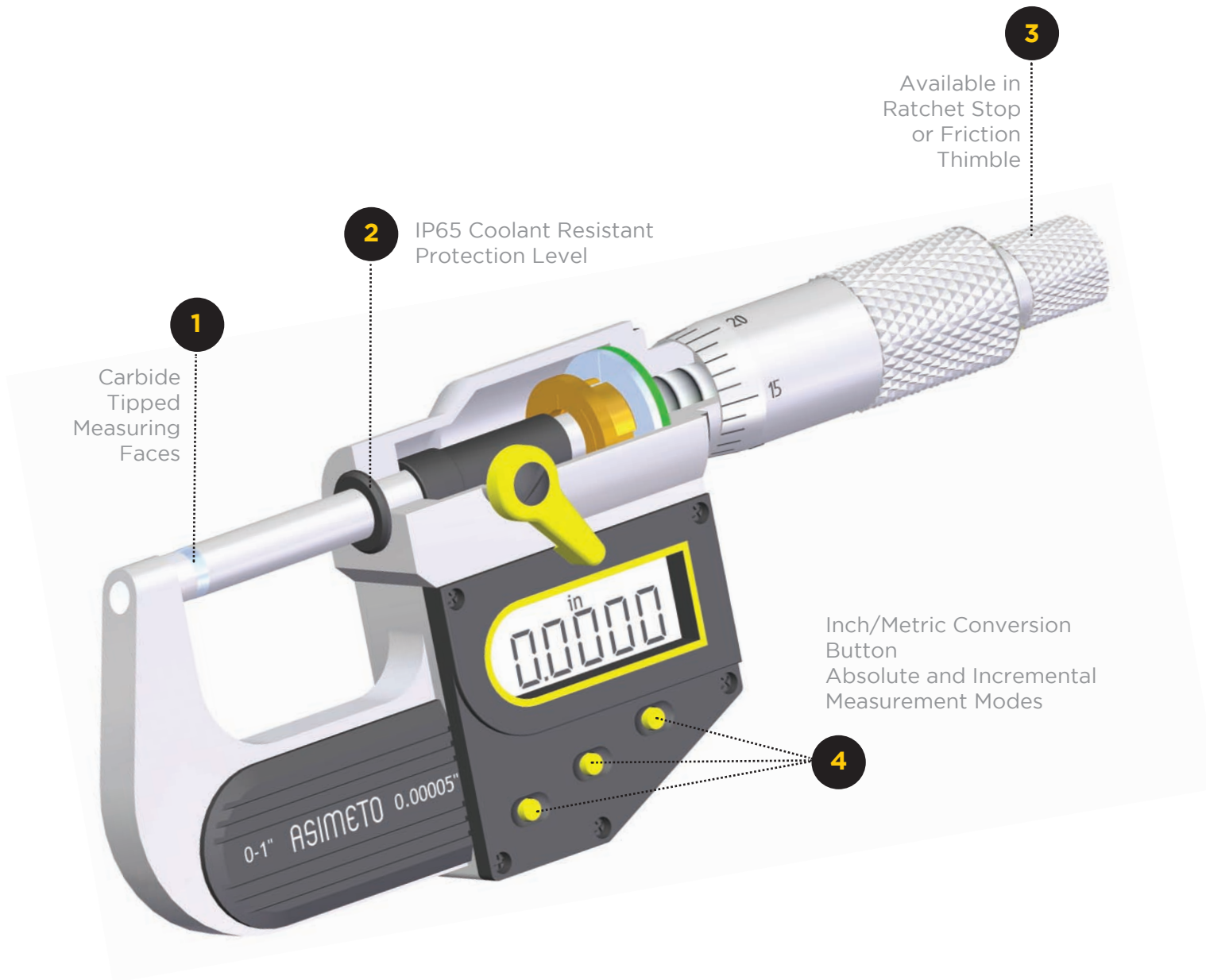
8	IP65 Digital Outside Micrometers
9	Economic Digital Outside Micrometers
10	Digit Counter Outside Micrometers
11	Outside Micrometers
13	Interchangeable Anvil Outside Micrometers
14	Three Point Internal Micrometers
18	Inside Micrometers
19	Dual Measurement Inside Micrometers
19	Tubular Inside Micrometers
20	Inside Micrometers - Interchangeable Rod Type
21	Quick-Setting Outside Micrometers, 1mm/Rev. Feed
21	Micrometer Stands
22	Blade Micrometers
23	Multi-Anvil Micrometers
24	Point Micrometers
25	Single Point Micrometers
26	Spline Micrometers
27	Gear Tooth Micrometers
28	Screw Thread Micrometers
29	Disc Micrometers
30	Jaw Type Micrometers
31	Universal Micrometers
32	V-Anvil Micrometers
33	Tube Micrometers
35	Deep Throat Micrometers
36	Limit Micrometers
36	Wire Micrometers
37	Sheet Metal Micrometers
37	Hub Micrometers
38	Groove Micrometers
39	Indicating Micrometers
39	Hot Sheet Micrometers
40	Snap Gauges
41	Can Seam Micrometers
41	Micrometer Heads
43	Depth Micrometers
44	Micrometer Standards
45	Micrometer Anvil Attachments
45	Thread Measuring Triangle Set





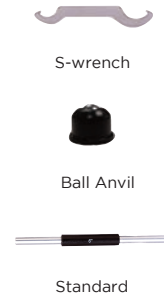
ASIMETO Digital Micrometers

Features:



IP65 Digital Outside Micrometers

105 / 106 Series



FEATURES

- Resolution:
Digital: .00005"/ 0.001mm
Scale: .0001"/ 0.01mm
- Flatness: 0.000012"/ 0.3µm
- Protection level IP65
- Ratchet Stop and Ratchet Thimble are optional
- Upon switch on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Inch/Metric conversion
- Absolute or incremental measuring modes
- Carbide tipped measuring faces
- Grey painted steel frame

STANDARD ACCESSORIES

- S-wrench, Battery, Ball Anvil, Standard (over 1"/25mm range)
- Warranty card, Calibration Certificate, Instruction manual

SPECIFICATIONS

Inch		Metric		W/O Data Output					With Data Output	
Range	Accuracy	Range	Accuracy	Thimble	Inch Code No.	Metric Code No.	Inch Code No.	Metric Code No.		
0-1"	±.0001"	0-25mm	±0.002mm	Ratchet	7105011	7105010	7105013	7105012		
0-1"	±.0001"	0-25mm	±0.002mm	Ratchet Thimble	7106015	7106014	7106017	7106016		
1-2"	±.0002"	25-50mm	±0.002mm	Ratchet	7105021	7105020	7105023	7105022		
1-2"	±.0002"	25-50mm	±0.002mm	Ratchet Thimble	7106025	7106024	7106027	7106026		
2-3"	±.0002"	50-75mm	±0.003mm	Ratchet	7105031	7105030	7105033	7105032		
2-3"	±.0002"	50-75mm	±0.003mm	Ratchet Thimble	7106035	7106034	7106037	7106036		
3-4"	±.0002"	75-100mm	±0.003mm	Ratchet	7105041	7105040	7105043	7105042		
3-4"	±.0002"	75-100mm	±0.003mm	Ratchet Thimble	7106045	7106044	7106047	7106046		
4-5"	±.0002"	100-125mm	±0.003mm	Ratchet	7105051	7105050	7105053	7105052		
5-6"	±.0002"	125-150mm	±0.003mm	Ratchet	7105061	7105060	7105063	7105062		
6-7"	±.0002"	150-175mm	±0.004mm	Ratchet	7105071	7105070	7105073	7105072		
7-8"	±.0002"	175-200mm	±0.004mm	Ratchet	7105081	7105080	7105083	7105082		
8-9"	±.0002"	200-225mm	±0.004mm	Ratchet	7105091	7105090	7105093	7105092		
9-10"	±.0003"	225-250mm	±0.004mm	Ratchet	7105101	7105100	7105103	7105102		
10-11"	±.0003"	250-275mm	±0.005mm	Ratchet	7105111	7105110	7105113	7105112		
11-12"	±.0003"	275-300mm	±0.005mm	Ratchet	7105121	7105120	7105123	7105122		
Sets										
Range	Quantity	Range	Quantity							
0-3"	3	0-75mm	3	Ratchet	7105637	7105636	7105639	7105638		
0-4"	4	0-100mm	4	Ratchet	7105647	7105646	7105649	7105648		
0-6"	6	0-150mm	6	Ratchet	7105667	7105666	7105669	7105668		

Economic Digital Outside Micrometers

116 Series



Ball Anvil



Standard

FEATURES

- Resolution: .00005"/ 0.001mm
- Carbide tipped measuring faces
- Spindle dia.: 0.25"
- Painted frame.
- Ratchet friction thimble
- Inch/Metric conversion
- Absolute or incremental measuring modes
- Automatic On/Off to maximize battery life

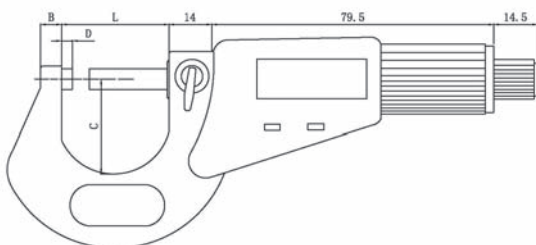
STANDARD ACCESSORIES

- Battery, Ball Anvil, Standard (over 1"/25mm range)
- Warranty card, Calibration Certificate, Instruction manual

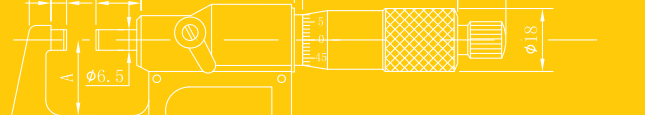
SPECIFICATIONS

Inch		Metric		Inch	
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	±.00016"	0-25mm	±0.004mm	7116011	7116010
1-2"	±.00016"	25-50mm	±0.004mm	7116021	7116020
2-3"	±.0002"	50-75mm	±0.005mm	7116031	7116030
3-4"	±.0002"	75-100mm	±0.005mm	7116041	7116040
4-5"	±.00024"	100-125mm	±0.006mm	7116051	7116050
5-6"	±.00024"	125-150mm	±0.006mm	7116061	7116060
6-7"	±.00028"	150-175mm	±0.007mm	7116071	7116070
7-8"	±.00028"	175-200mm	±0.007mm	7116081	7116080
Sets					
Range	Quantity	Range	Quantity		
0-3"	3	0-75mm	3	7116631	7116630
0-4"	4	0-100mm	4	7116641	7116640

Dimension



Range	C	L	B	D
Inch/Metric	mm	mm	mm	mm
0-1"/0-25mm	24	32	6	3
1-2"/25-50mm	32	57	8	3
2-3"/50-75mm	45	82	8	3
3-4"/75-100mm	57	107	10	3
4-5"/100-125mm	70	133	10	3
5-6"/125-150mm	82	158	10	3
6-7"/150-175mm	95	183	12	5.5
7-8"/175-200mm	107	209	12	5.5



Digit Counter Outside Micrometers

108 Series



7108010



S-wrench



Standard

FEATURES

- Resolution: Inch: .0001"; Metric: 0.001mm
Counter readout: Inch: .001"; Metric: 0.01mm
- Flatness: 0.000024" / 0.6µm
- Mechanical counter for quick and error free reading
- Carbide tipped measuring faces
- Ratchet stop for normal models
Ratchet thimble for µ-digit models
- Grey painted steel frame

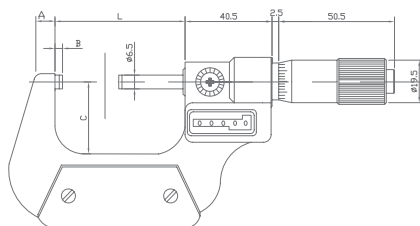
STANDARD ACCESSORIES

- S-wrench, Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate

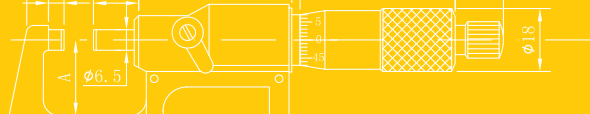
SPECIFICATIONS

Inch		Metric		Inch Code No.	Metric Code No.
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	±0.0001"	0-25mm	±0.004mm	7108013	7108010
1-2"	±0.0002"	25-50mm	±0.004mm	7108023	7108020
2-3"	±0.0002"	50-75mm	±0.005mm	7108033	7108030
3-4"	±0.0002"	75-100mm	±0.005mm	7108043	7108040
4-5"	±0.0002"	100-120mm	±0.005mm	7108053	7108050
5-6"	±0.0002"	125-150mm	±0.005mm	7108063	7108060
Sets					
Range	Quantity	Range	Quantity		
0-3"	3	0-75mm	3	7108637	7108638
0-4"	4	0-100mm	4	7108647	7108648
0-6"	6	0-150mm	6	7108667	7108668

Dimension

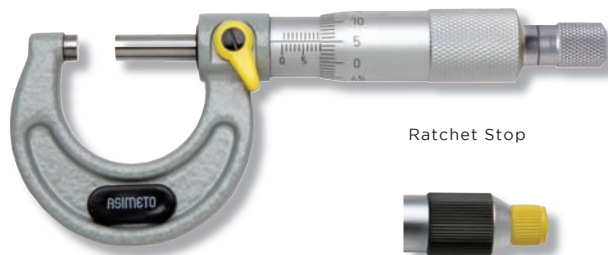


Range	A	B	C	L
Inch/Metric	mm	mm	mm	mm
0-1"/0-25mm	6	3	24	32
1-2"/25-50mm	8	3	32	57
2-3"/50-75mm	8	3	45	82
3-4"/75-100mm	10	3	57	107
4-5"/100-125mm	10	3	70	133
5-6"/125-150mm	10	3	82	158



Outside Micrometers

101 / 103 Series



7101010

Ratchet Stop



Ratchet Thimble



S-wrench



Standard

FEATURES

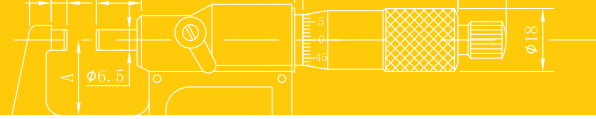
- Graduation:
Inch: 0.001" / .0001"
Metric: 0.01mm / 0.001mm
- Flatness: 0.000024" / 0.6μm
- Carbide tipped measuring faces
- Ratchet Stop and Ratchet Thimble are optional
- Grey painted steel frame

STANDARD ACCESSORIES

- S-wrench, Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch			Metric			Ratchet Stop		Ratchet Thimble	
Range	Graduation	Accuracy	Range	Graduation	Accuracy	Inch Code No.	Metric Code No.	Inch Code No.	Metric Code No.
0-1"	.001"	±.0001"	0-25mm	0.01mm	±0.004mm	7101011	7101010	7103015	7103014
1-2"	.001"	±.0002"	25-50mm	0.01mm	±0.004mm	7101021	7101020	7103025	7103024
2-3"	.001"	±.0002"	50-75mm	0.01mm	±0.005mm	7101031	7101030	7103035	7103034
3-4"	.001"	±.0002"	75-100mm	0.01mm	±0.005mm	7101041	7101040	7103045	7103044
4-5"	.001"	±.0002"	100-125mm	0.01mm	±0.006mm	7101051	7101050	7103055	7103054
5-6"	.001"	±.0002"	125-150mm	0.01mm	±0.006mm	7101061	7101060	7103065	7103064
6-7"	.001"	±.0002"	150-175mm	0.01mm	±0.007mm	7101071	7101070	7103075	7103074
7-8"	.001"	±.0002"	175-200mm	0.01mm	±0.007mm	7101081	7101080	7103085	7103084
8-9"	.001"	±.0002"	200-225mm	0.01mm	±0.008mm	7101091	7101090	7103095	7103094
9-10"	.001"	±.0003"	225-250mm	0.01mm	±0.008mm	7101101	7101100	7103105	7103104
10-11"	.001"	±.0003"	250-275mm	0.01mm	±0.009mm	7101111	7101110	7103115	7103114
11-12"	.001"	±.0003"	275-300mm	0.01mm	±0.009mm	7101121	7101120	7103125	7103124
0-1"	.0001"	±.0001"	0-25mm	0.001mm	±0.004mm	7101013	7101012	7103017	7103016
1-2"	.0001"	±.0002"	25-50mm	0.001mm	±0.004mm	7101023	7101022	7103027	7103026
2-3"	.0001"	±.0002"	50-75mm	0.001mm	±0.005mm	7101033	7101032	7103037	7103036
3-4"	.0001"	±.0002"	75-100mm	0.001mm	±0.005mm	7101043	7101042	7103047	7103046
4-5"	.0001"	±.0002"	100-125mm	0.001mm	±0.006mm	7101053	7101052	7103057	7103056
5-6"	.0001"	±.0002"	125-150mm	0.001mm	±0.006mm	7101063	7101062	7103067	7103066
6-7"	.0001"	±.0002"	150-175mm	0.001mm	±0.007mm	7101073	7101072	7103077	7103076
7-8"	.0001"	±.0002"	175-200mm	0.001mm	±0.007mm	7101083	7101082	7103087	7103086
8-9"	.0001"	±.0002"	200-225mm	0.001mm	±0.008mm	7101093	7101092	7103097	7103096
9-10"	.0001"	±.0003"	225-250mm	0.001mm	±0.008mm	7101103	7101102	7103107	7103106
10-11"	.0001"	±.0003"	250-275mm	0.001mm	±0.009mm	7101113	7101112	7103117	7103116
11-12"	.0001"	±.0003"	275-300mm	0.001mm	±0.009mm	7101123	7101122	7103127	7103126



Outside Micrometers Set

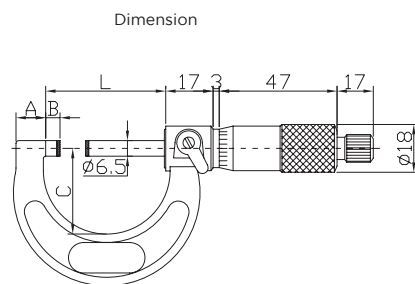
101 Series



SPECIFICATIONS

7101668

Inch		Metric		Inch	Metric
Range	Graduation	Range	Graduation	Code No.	Code No.
0-3"	.001"	0-75mm	0.01mm	7101639	7101638
0-4"	.001"	0-100mm	0.01mm	7101649	7101648
0-6"	.001"	0-150mm	0.01mm	7101669	7101668
0-12"	.001"	0-300mm	0.01mm	7101729	7101728
6-12"	.001"	150-300mm	0.01mm	7101829	7101828
0-3"	.0001"	0-75mm	0.001mm	7101637	7101636
0-4"	.0001"	0-100mm	0.001mm	7101647	7101646
0-6"	.0001"	0-150mm	0.001mm	7101667	7101666
0-12"	.0001"	0-300mm	0.001mm	7101727	7101726
6-12"	.0001"	150-300mm	0.001mm	7101827	7101826



Range	A	B	C	L
Inch/Metric	mm	mm	mm	mm
0-1"/0-25mm	9	3	28	32
1-2"/25-50mm	14	3	38	57
2-3"/50-75mm	14.5	3	49	82
3-4"/75-100mm	15	3	60	107
4-5"/100-125mm	16.5	3	73	133
5-6"/125-150mm	16.5	3	85	158
6-7"/150-175mm	19.4	3	104	183
7-8"/175-200mm	19.4	3	117	209
8-9"/200-225mm	19.4	3	130	234
9-10"/225-250mm	19.4	3	142	260
10-11"/250-275mm	19.4	3	155	285
11-12"/275-300mm	19.4	3	168	310

Interchangeable Anvil Outside Micrometers

111 / 115 Series



Digital models



7111061



S-wrench



Torque Wrench



Battery



Guiding rings



Standard

STANDARD ACCESSORIES

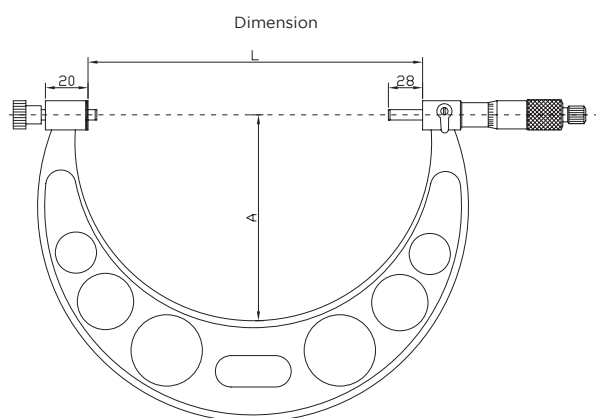
- S-wrench, Battery (Digital models), Standards, Interchangeable Anvils, Torque Wrench, 2 guiding rings
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
Digital reading: .00005" / 0.001mm
Scale on digital models: .0001" / 0.01mm
Scale on mechanical models: .0001" / 0.01mm
Flatness: 0.00004" / 1µm
- Ratchet stop
- Interchangeable anvils provide wider measuring ranges
- Carbide tipped measuring faces
- Grey painted steel frame for models up to 12"/300mm
- Grey welded pipe frame for models over 12"/300mm models
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

SPECIFICATIONS

Inch		Metric				Digital models		Mechanical models	
Range	Accuracy	Range	Accuracy	Anvils	Standards	Inch Code No.	Metric Code No.	Inch Code No.	Metric Code No.
0-6"	±.0002"	0-150mm	±0.006mm	6 pcs	5 pcs	7115061	7115060	7111063	7111060
6-12"	±.0003"	150-300mm	±0.009mm	6 pcs	6 pcs	7115121	7115120	7111123	7111120
0-4"	±.0002"	0-100mm	±0.006mm	4 pcs	3 pcs	7115047	7115046	7111049	7111046
4-8"	±.0003"	100-200mm	±0.009mm	4 pcs	4 pcs	7115087	7115086	7111089	7111086
8-12"	±.0003"	200-300mm	±0.009mm	4 pcs	4 pcs	7115127	7115126	7111129	7111126
12-16"	±.0004"	300-400mm	±0.011mm	4 pcs	2 pcs	7115161	7115160	7111163	7111160
16-20"	±.0005"	400-500mm	±0.013mm	4 pcs	2 pcs	7115201	7115200	7111203	7111200
20-24"	±.0006"	500-600mm	±0.015mm	4 pcs	2 pcs	7115241	7115240	7111243	7111240
24-28"	±.0006"	600-700mm	±0.016mm	4 pcs	2 pcs	7115281	7115280	7111283	7111280
28-32"	±.0007"	700-800mm	±0.018mm	4 pcs	2 pcs	7115321	7115320	7111323	7111320
32-36"	±.0008"	800-900mm	±0.020mm	4 pcs	2 pcs	7115361	7115360	7111363	7111360
36-40"	±.0008"	900-1000mm	±0.020mm	4 pcs	2 pcs	7115401	7115400	7111403	7111400



Note: The individual anvils are matched as a set with the frame.
The accuracy can not be guaranteed if used with a different frame

Range	Range	A	L
Inch	Metric	mm	mm
0-6"	0-150mm	82	158
6-12"	150-300mm	165	308
0-4"	0-100mm	57	108
4-8"	100-200mm	114	208
8-12"	200-300mm	165	308
12-16"	300-400mm	224	409
16-20"	400-500mm	275	509
20-24"	500-600mm	321	609
24-28"	600-700mm	371	709
28-32"	700-800mm	426	809
32-36"	800-900mm	476	909
36-40"	900-1000mm	576	1009



Two and Three Point Internal Micrometers (2-12mm/.08-.5")

208 / 209 Series



7208120



7209090

FEATURES

- Resolution:
Digital models: .00005" / 0.001mm
Mechanical models: .0001" / 0.001mm
- Protection level IP65
- Ratchet stop
- Setting rings supplied
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Models Up to and including 6mm or .24 inch have two measuring points and models 7mm or .275 inch and above are with three measuring points

STANDARD ACCESSORIES

- Battery (Digital models),
Setting Rings,
Extension Rods (over 6-8mm range),
S-wrench, Screwdriver
- Warranty card, Instruction manual,
Calibration certificate

SPECIFICATIONS

Digital models

Inch			Metric						Inch	Metric
Range	Accuracy	Setting Rings	Range	Accuracy	Setting Rings	L	A	Extension Rods	Code No.	Code No.
.08-.1"	±.00016"	.1"	2-2.5mm	±0.004mm	2.5mm	12.5mm	-	-	7208061	7208060
.1-.12"	±.00016"	.1"	2.5-3mm	±0.004mm	2.5mm	12.5mm	-	-	7208071	7208070
.12-.16"	±.00016"	.16"	3-4mm	±0.004mm	4mm	22.5mm	-	-	7208081	7208080
.16-.2"	±.00016"	.16"	4-5mm	±0.004mm	5mm	22.5mm	-	-	7208091	7208090
.2-.24"	±.00016"	.24"	5-6mm	±0.004mm	6mm	22.5mm	-	-	7208101	7208100
.24-.28"	±.00016"	.24"	-	-	-	22.5mm	0.5mm	-	7208105	-
.275-.35"	±.00016"	.275"	6-8mm	±0.004mm	6mm	53.5mm	0.5mm	100mm	7208111	7208110
.35-.425"	±.00016"	.35"	8-10mm	±0.004mm	8mm	53.5mm	0.5mm	100mm	7208121	7208120
.425-.5"	±.00016"	.5"	10-12mm	±0.004mm	10mm	53.5mm	0.5mm	100mm	7208131	7208130

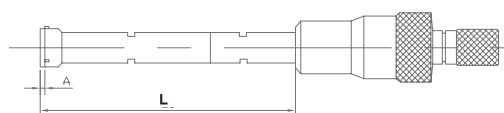
Mechanical models

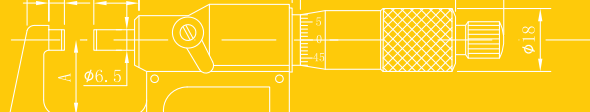
Inch			Metric						Inch	Metric
Range	Accuracy	Setting Rings	Range	Accuracy	Setting Rings	L	A	Extension Rods	Code No.	Code No.
.08-.1"	±.00016"	.1"	2-2.5mm	±0.004mm	2.5mm	12.5mm	-	-	7209061	7209060
.1-.12"	±.00016"	.1"	2.5-3mm	±0.004mm	2.5mm	12.5mm	-	-	7209071	7209070
.12-.16"	±.00016"	.16"	3-4mm	±0.004mm	4mm	22.5mm	-	-	7209081	7209080
.16-.2"	±.00016"	.16"	4-5mm	±0.004mm	5mm	22.5mm	-	-	7209091	7209090
.2-.24"	±.00016"	.24"	5-6mm	±0.004mm	6mm	22.5mm	-	-	7209101	7209100
.24-.28"	±.00016"	.24"	-	-	-	22.5mm	0.5mm	-	7209105	-
.275-.35"	±.00016"	.275"	6-8mm	±0.004mm	6mm	53.5mm	0.5mm	100mm	7209111	7209110
.35-.425"	±.00016"	.35"	8-10mm	±0.004mm	8mm	53.5mm	0.5mm	100mm	7209121	7209120
.425-.5"	±.00016"	.5"	10-12mm	±0.004mm	10mm	53.5mm	0.5mm	100mm	7209131	7209130

Dimension: 2-6mm/.08 - .24"



Dimension: 6-12mm/.275 - 0.5"





Three-Point Internal Micrometers (12-100mm/.5-4.0")

208 / 209 Series



FEATURES

- Resolution:
 - Digital models: .00005" / 0.001mm
 - Mechanical models: .0002" / 0.005mm
- Protection level IP65
- Ratchet stop
- Setting rings for origin point setting
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Additional extensions can be added to increase the measuring depth
- Measuring surfaces are carbide

STANDARD ACCESSORIES

- Battery (Digital models),
- Extension Rods (over 6-8mm range),
- Wrench, Screwdriver, Setting Rings
- Warranty card, Instruction manual, Calibration certificate

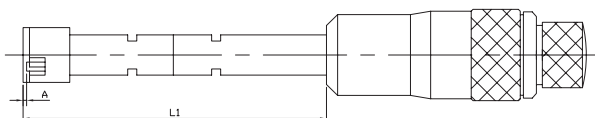
SPECIFICATIONS

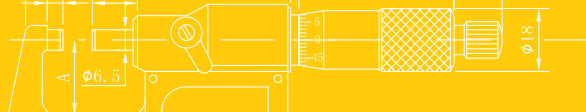
Digital models

Inch			Metric						Inch		Metric	
Range	Accuracy	Setting Rings	Range	Accuracy	Setting Rings	L1	A	Extension Rods	Code No.		Code No.	
.5-.65"	$\pm 0.0016"$	.65"	12-16mm	± 0.004 mm	16mm	80mm	0.5mm	150mm	7208241		7208240	
.65-.8"	$\pm 0.0016"$	.65"	16-20mm	± 0.004 mm	16mm	80mm	0.5mm	150mm	7208251		7208250	
.8-1"	$\pm 0.0016"$	1"	20-25mm	± 0.004 mm	25mm	90mm	0.5mm	150mm	7208261		7208260	
1-1.2"	$\pm 0.0016"$	1"	25-30mm	± 0.004 mm	25mm	90mm	0.5mm	150mm	7208271		7208270	
1.2-1.6"	$\pm 0.0016"$	1.6"	30-40mm	± 0.004 mm	40mm	97mm	0.5mm	150mm	7208281		7208280	
1.6-2"	$\pm 0.002"$	1.6"	40-50mm	± 0.005 mm	40mm	97mm	0.5mm	150mm	7208291		7208290	
2-2.5"	$\pm 0.002"$	2.5"	50-63mm	± 0.005 mm	62mm	114mm	0.5mm	150mm	7208301		7208300	
2.5-3"	$\pm 0.002"$	2.5"	62-75mm	± 0.005 mm	62mm	114mm	0.5mm	150mm	7208311		7208310	
3-3.5"	$\pm 0.002"$	3.5"	75-88mm	± 0.005 mm	87mm	114mm	0.5mm	150mm	7208321		7208320	
3.5-4"	$\pm 0.002"$	3.5"	87-100mm	± 0.005 mm	87mm	114mm	0.5mm	150mm	7208331		7208330	

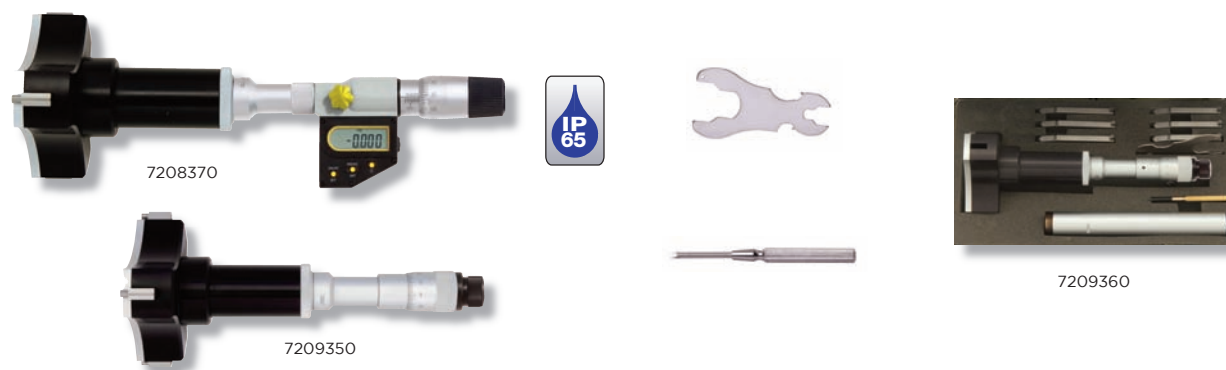
Mechanical models

Inch			Metric						Inch		Metric	
Range	Accuracy	Setting Rings	Range	Accuracy	Setting Rings	L1	A	Extension Rods	Code No.		Code No.	
.5-.65"	$\pm 0.0016"$	.65"	12-16mm	± 0.004 mm	16mm	80mm	0.5mm	150mm	7209241		7209240	
.65-.8"	$\pm 0.0016"$	.65"	16-20mm	± 0.004 mm	16mm	80mm	0.5mm	150mm	7209251		7209250	
.8-1"	$\pm 0.0016"$	1"	20-25mm	± 0.004 mm	25mm	90mm	0.5mm	150mm	7209261		7209260	
1-1.2"	$\pm 0.0016"$	1"	25-30mm	± 0.004 mm	25mm	90mm	0.5mm	150mm	7209271		7209270	
1.2-1.6"	$\pm 0.0016"$	1.6"	30-40mm	± 0.004 mm	40mm	97mm	0.5mm	150mm	7209281		7209280	
1.6-2"	$\pm 0.002"$	1.6"	40-50mm	± 0.005 mm	40mm	97mm	0.5mm	150mm	7209291		7209290	
2-2.5"	$\pm 0.002"$	2.5"	50-63mm	± 0.005 mm	62mm	114mm	0.5mm	150mm	7209301		7209300	
2.5-3"	$\pm 0.002"$	2.5"	62-75mm	± 0.005 mm	62mm	114mm	0.5mm	150mm	7209311		7209310	
3-3.5"	$\pm 0.002"$	3.5"	75-88mm	± 0.005 mm	87mm	114mm	0.5mm	150mm	7209321		7209320	
3.5-4"	$\pm 0.002"$	3.5"	87-100mm	± 0.005 mm	87mm	114mm	0.5mm	150mm	7209331		7209330	





Three-Point Internal Micrometers (100-300mm/4.0-12.0") 208 / 209 Series



FEATURES

- Resolution:
 - Digital models: .00005" / 0.001mm
 - Mechanical models: .0002" / 0.005mm
- Protection level IP65
- Ratchet stop
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Additional extensions can be added to increase the measuring depth
- Measuring surfaces are carbide
- Setting rings are not included with the set but are optional

STANDARD ACCESSORIES

- Battery (Digital models)
- Extension Rods (over 6-8mm range)
- Wrench, Screwdriver
- Warranty card, Instruction manual, Calibration certificate

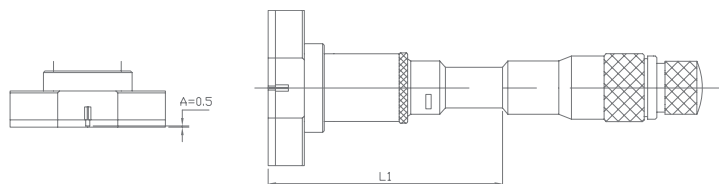
SPECIFICATIONS

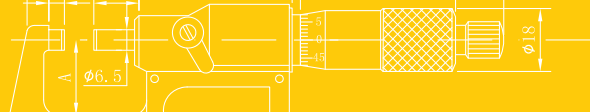
Digital models

Inch			Metric					Inch		Metric	
Range	Accuracy	Setting Rings	Range	Accuracy	Setting Rings	L1	Extension Rods	Code No.		Code No.	
4-5"	±.0002"	4.5"	100-125mm	±0.005mm	112.5mm	145mm	150mm	7208341		7208340	
5-6"	±.0002"	5.5"	125-150mm	±0.005mm	137.5mm	145mm	150mm	7208351		7208350	
6-7"	±.0002"	6.5"	150-175mm	±0.005mm	162.5mm	145mm	150mm	7208361		7208360	
7-8"	±.0002"	7.5"	175-200mm	±0.005mm	187.5mm	145mm	150mm	7208371		7208370	
8-9"	±.00028"	8.5"	200-225mm	±0.007mm	212.5mm	145mm	150mm	7208381		7208380	
9-10"	±.00028"	9.5"	225-250mm	±0.007mm	237.5mm	145mm	150mm	7208391		7208390	
10-11"	±.00028"	10.5"	250-275mm	±0.007mm	262.5mm	145mm	150mm	7208401		7208400	
11-12"	±.00028"	11.5"	275-300mm	±0.007mm	287.5mm	145mm	150mm	7208411		7208410	

Mechanical models

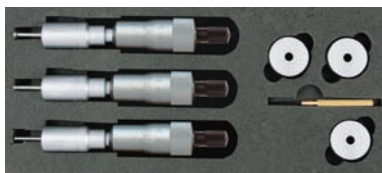
Inch			Metric					Inch		Metric	
Range	Accuracy	Setting Rings	Range	Accuracy	Setting Rings	L1	Extension Rods	Code No.		Code No.	
4-5"	±.0002"	4.5"	100-125mm	±0.005mm	112.5mm	145mm	150mm	7209341		7209340	
5-6"	±.0002"	5.5"	125-150mm	±0.005mm	137.5mm	145mm	150mm	7209351		7209350	
6-7"	±.0002"	6.5"	150-175mm	±0.005mm	162.5mm	145mm	150mm	7209361		7209360	
7-8"	±.0002"	7.5"	175-200mm	±0.005mm	187.5mm	145mm	150mm	7209371		7209370	
8-9"	±.00028"	8.5"	200-225mm	±0.007mm	212.5mm	145mm	150mm	7209381		7209380	
9-10"	±.00028"	9.5"	225-250mm	±0.007mm	237.5mm	145mm	150mm	7209391		7209390	
10-11"	±.00028"	10.5"	250-275mm	±0.007mm	262.5mm	145mm	150mm	7209401		7209400	
11-12"	±.00028"	11.5"	275-300mm	±0.007mm	287.5mm	145mm	150mm	7209411		7209410	





Two and Three Point Internal Micrometers Sets

208 / 209 Series



7208628

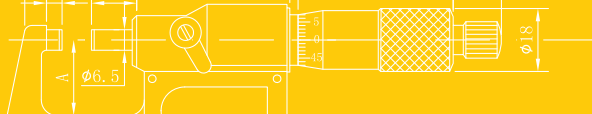
SPECIFICATIONS

Digital models

Range	Individual range	Setting rings	Extension rods	Code No.
Inch				
.08-.12"	0.08-0.1", 0.1-0.12" 2 pcs	0.1"	-	7208619
.12-.28"	0.12-0.16", 0.16"-0.2", 0.2-0.24", 0.24-0.28" 4 pcs	0.16", 0.24"	-	7208629
.275-.5"	0.275-0.35", 0.35-0.425", 0.425"-0.5" 3 pcs	0.275", 0.35", 0.5"	4"	7208639
.5-.8"	0.5-0.65", 0.65-0.8" 2 pcs	0.65"	6"	7208649
.8-2"	0.8-1", 1-1.2", 1.2-1.6", 1.6-2" 4 pcs	1", 1.6"	6"	7208659
2-4"	2-2.5", 2.5-3", 3-3.5", 3.5-4" 4 pcs	2.5", 3.5"	6"	7208669
Metric				
2-3mm	2-2.5, 2.5-3mm 2 pcs	2.5mm	-	7208618
3-6mm	3-4, 4-5, 5-6mm 3 pcs	4, 5, 6mm	-	7208628
6-12mm	6-8, 8-10, 10-12mm 3 pcs	6, 8, 10mm	100mm	7208638
12-20mm	12-16, 16-20mm 2 pcs	16mm	150mm	7208648
20-50mm	20-25, 25-30, 30-40, 40-50mm 4 pcs	25, 40mm	150mm	7208658
50-100mm	50-63, 62-75, 75-88, 87-100mm 4 pcs	62, 87mm	150mm	7208668

Mechanical models

Range	Individual range	Setting rings	Extension rods	Code No.
Inch				
.08-.12"	0.08-0.1", 0.1-0.12" 2 pcs	0.1"	-	7209619
.12-.28"	0.12-0.16", 0.16"-0.2", 0.2-0.24", 0.24-0.28" 4 pcs	0.16", 0.24"	-	7209629
.275-.5"	0.275-0.35", 0.35-0.425", 0.425"-0.5" 3 pcs	0.275", 0.35", 0.5"	4"	7209639
.5-.8"	0.5-0.65", 0.65-0.8" 2 pcs	0.65"	6"	7209649
.8-2"	0.8-1", 1-1.2", 1.2-1.6", 1.6-2" 4 pcs	1", 1.6"	6"	7209659
2-4"	2-2.5", 2.5-3", 3-3.5", 3.5-4" 4 pcs	2.5", 3.5"	6"	7209669
Metric				
2-3mm	2-2.5, 2.5-3mm 2 pcs	2.5mm	-	7209618
3-6mm	3-4, 4-5, 5-6mm 3 pcs	4, 5, 6mm	-	7209628
6-12mm	6-8, 8-10, 10-12mm 3 pcs	6, 8, 10mm	100mm	7209638
12-20mm	12-16, 16-20mm 2 pcs	16mm	150mm	7209648
20-50mm	20-25, 25-30, 30-40, 40-50mm 4 pcs	25, 40mm	150mm	7209658
50-100mm	50-63, 62-75, 75-88, 87-100mm 4 pcs	62, 87mm	150mm	7209668



Inside Micrometers

203 / 207 Series

FEATURES

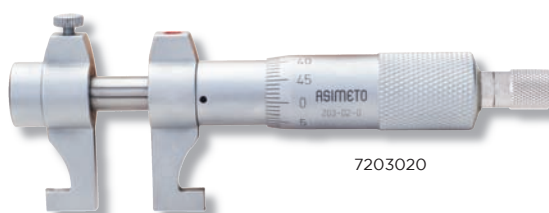
- Resolution:
Digital models: .00005" / 0.001mm
Mechanical models: .001" / 0.01mm
- Designed for the measurement of intricate internal characteristics
- 207 Series has solid carbide pins for measurement contact points
- Satin chrome finished
- .2-1.2"/5-30mm and 1-2"/25-50mm range are supplied with setting rings
- Ratchet stop
- Digital System same as 105- Series

STANDARD ACCESSORIES

- Battery (Digital models), S-wrench, Setting rings
- Warranty card, Instruction manual, Calibration certificate



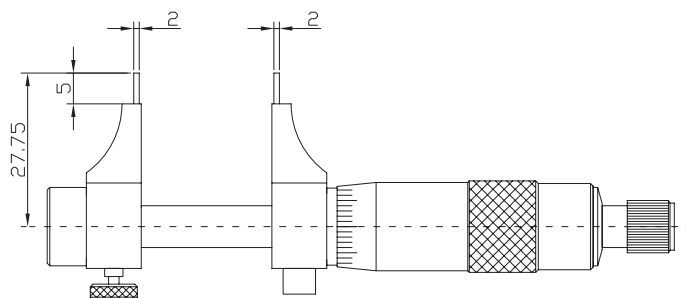
7207011

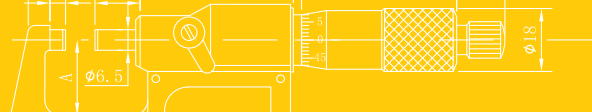


7203020

SPECIFICATIONS

Inch			Metric			Inch	Metric
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.	Code No.
Digital models							
.2-1.2"	.00005"	±.0001"	5-30mm	0.001mm	±0.007mm	7207011	7207010
1-2"	.00005"	±.0002"	25-50mm	0.001mm	±0.008mm	7207021	7207020
2-3"	.00005"	±.0002"	50-75mm	0.001mm	±0.009mm	7207031	7207030
3-4"	.00005"	±.0002"	75-100mm	0.001mm	±0.010mm	7207041	7207040
4-5"	.00005"	±.0002"	100-125mm	0.001mm	±0.010mm	7207051	7207050
5-6"	.00005"	±.0002"	125-150mm	0.001mm	±0.010mm	7207061	7207060
6-7"	.00005"	±.0002"	150-175mm	0.001mm	±0.010mm	7207071	7207070
7-8"	.00005"	±.0002"	175-200mm	0.001mm	±0.010mm	7207081	7207080
Mechanical models							
.2-1.2"	.001"	±.0001"	5-30mm	0.01mm	±0.007mm	7203011	7203010
1.0-2.0"	.001"	±.0002"	25-50mm	0.01mm	±0.008mm	7203021	7203020
2.0-3.0"	.001"	±.0002"	50-75mm	0.01mm	±0.009mm	7203031	7203030
3.0-4.0"	.001"	±.0002"	75-100mm	0.01mm	±0.010mm	7203041	7203040
4.0-5.0"	.001"	±.0002"	100-125mm	0.01mm	±0.010mm	7203051	7203050
5.0-6.0"	.001"	±.0002"	125-150mm	0.01mm	±0.010mm	7203061	7203060
6.0-7.0"	.001"	±.0002"	150-175mm	0.01mm	±0.010mm	7203071	7203070
7.0-8.0"	.001"	±.0002"	175-200mm	0.01mm	±0.010mm	7203081	7203080





Dual Measurement Inside Micrometers

206 Series

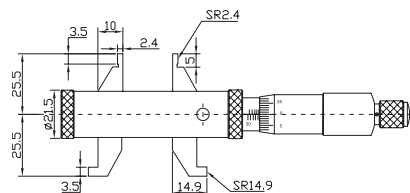
FEATURES

- For all kinds of inside measurement
- Large measuring range with two sides of calipers
- Bi-directional graduation for easy reading in both directions
- Supplied with setting rings (Ø1.2"/Ø 30mm dia.)



STANDARD ACCESSORIES

- S-wrench, Setting rings
- Warranty card, Instruction manual, Calibration certificate



SPECIFICATIONS

Upper Range	Lower Range	Graduation	Accuracy	Code No.
Inch				
.2-1.2"	1.2-2.2"	.001"	±.00024"	7206011
Metric				
5-30mm	30-55mm	0.01mm	±0.008mm	7206010

Tubular Inside Micrometers

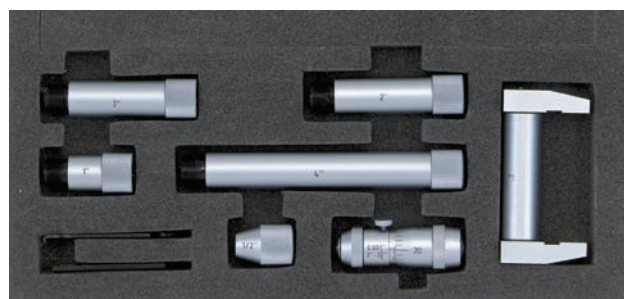
240 Series

SPECIFICATIONS

- Graduation: .001" / 0.01mm
- Offers a wide range of ID measurements by combining extension rods with the micrometer head
- Supplied with a standard caliper gauge for zero setting
- The combining of extension rods provides a wide measuring range
- Carbide measuring faces
- Diameter of extension rods: Ø15.5mm
- Accuracy: Metric ($3+n+L/50$)µm, Inch [$0.00005 \times (3+n+L/2)$]"
- (n= number of rod, L=maximum measuring length (mm) [Inch])

STANDARD ACCESSORIES

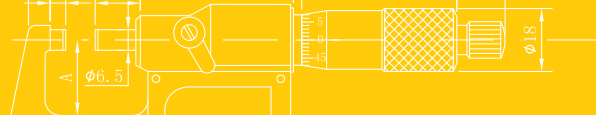
- S-wrench, Standard caliper gauge, Extension rods, Micrometer Head
- Warranty card, Instruction manual, Calibration certificate



7240011

SPECIFICATIONS

Range	Extension Rods	Note	Code No.
Inch			
2-12"	.5", 1", 2" (2 pcs), 4"	Includes .50", .001" Mic. Head	7240011
2-40"	.5", 1", 2", 4" (2 pcs), 6", 8", 12"	Includes .50", .001" Mic. Head	7240021
2-2.5"	-	Replacement Mic Head .001"	7169551
Metric			
50-300mm	13, 25, 50 (2 pcs), 100mm	Includes 13mm, 0.01mm Mic. Head	7240010
50-1000mm	13, 25, 50, 100 (2 pcs), 150, 200, 300mm	Includes 13mm, 0.01mm Mic. Head	7240020
50-100mm	13, 25mm	Includes 13mm, 0.01mm Mic. Head	7240110
50-500mm	13, 25, 50 (2 pcs), 100, 200mm	Includes 13mm, 0.01mm Mic. Head	7240120
50-63mm	-	Replacement 0.01mm Mic. Head	7169550



Inside Micrometers - Interchangeable Rod Type

242 Series



7242401

FEATURES

- Graduation: .001" / 0.01mm.
- Rods marked with its measuring range
- Satin chrome finish throughout
- All contact points hardened for extra long tool life
- With locking clamp
- Zero point can be readjusted by rotating the micrometer head sleeve
- Carbide tipped measuring faces

STANDARD ACCESSORIES

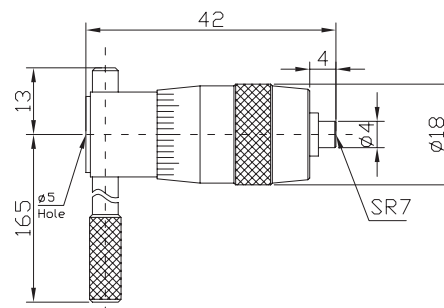
- Micrometer Head, Extension Rods, S-wrench
- Warranty card, Instruction manual, Calibration certificate

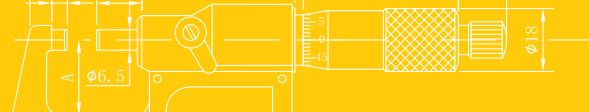
SPECIFICATIONS

Range	Head Travel	Graduation	Spacing Collar	Diameter of Rods	Note	Code No.
Inch						
1-2"	.25"	.001"	.250"	Φ.248"	1" Mic head & 2 Rods	7242021
2-8"	.50"	.001"	.500"	Φ.248"	2" Mic head & 6 Rods	7242081
2-12"	.50"	.001"	.500"	Φ.248"	2" Mic head & 10 Rods	7242121
8-20"	1.00"	.001"	1", 2"	Φ.355"	8" Mic head & 3 Rods	7242201
8-40"	1.00"	.001"	1", 2"	Φ.355"	8" Mic head & 8 Rods	7242401
Metric						
25-50mm	7.0mm	0.01mm	6.0mm	Φ6.3mm	25mm Mic head & 2 Rods	7242020
50-200mm	13mm	0.01mm	12.0mm	Φ6.3mm	50mm Mic head & 6 Rods	7242080
50-300mm	13mm	0.01mm	12.0mm	Φ6.3mm	50mm Mic head & 10 Rods	7242120
200-500mm	25mm	0.01mm	25mm, 50mm	Φ9mm	200mm Mic head & 3 Rods	7242200
200-1000mm	25mm	0.01mm	25mm, 50mm	Φ9mm	200mm Mic head & 8 Rods	7242400

Note: Individual rods are matched with micrometer and should not be interchanged with other sets

Accuracy: Metric $(6+L/50)\mu\text{m}$,
Inch $[0.0003+0.00005(L/2)]''$
L=maximum measuring length





Quick-Setting Outside Micrometers, 1mm Rev

102 Series



7102620

S-wrench



Standard



FEATURES

- Graduation: 0.01mm
- Flatness: 0.3μm
- 1mm thread pitch for quick setting
- The measurement can be read directly from the thimble due to the 100 step graduation
- Carbide tipped measuring faces
- Ratchet thimble
- Grey painted steel frame

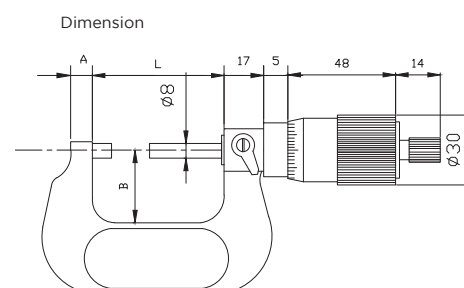
SPECIFICATIONS

Range	Accuracy	Code No.
0-25mm	±0.004mm	7102610
25-50mm	±0.004mm	7102620
50-75mm	±0.005mm	7102630
75-100mm	±0.005mm	7102640

Range	A	B	L
0-25mm	6mm	24mm	32mm
25-50mm	8mm	32mm	57mm
50-75mm	8mm	45mm	82mm
75-100mm	8mm	57mm	107mm

STANDARD ACCESSORIES

- S-wrench, Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate



Micrometer Stands

109 Series

- These stands are designed to allow bench top use with hand micrometers



Code No.: 7109010
Painted Steel Base



Code No.: 7109021
Painted Cast-iron Base



Blade Micrometers

112 / 117 Series



7117011



S-wrench



Battery



Standard



7112010

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes

FEATURES

- Resolution:
Digital reading: .00005" / 0.001mm
Scale on digital models: .0001" / 0.01mm
Scale on mechanical models: .0001" / 0.01mm
- Ratchet stop
- For measuring the groove diameter of shafts, keyways, and other hard to reach portions
- Non-rotating spindle
- Carbide tipped measuring faces
- Grey painted steel frame

SPECIFICATIONS

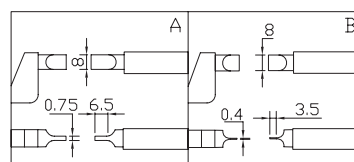
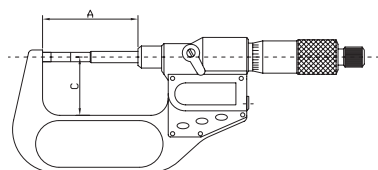
Digital models

Inch		Metric		Anvil Type	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.003mm	A	7117011	7117010
1-2"	±.0002"	25-50mm	±0.003mm	A	7117021	7117020
2-3"	±.0002"	50-75mm	±0.003mm	A	7117031	7117030
3-4"	±.0002"	75-100mm	±0.004mm	A	7117041	7117040
0-1"	±.0001"	0-25mm	±0.003mm	B	7117013	7117012
1-2"	±.0002"	25-50mm	±0.003mm	B	7117023	7117022

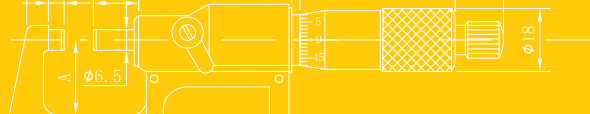
Mechanical models

Inch		Metric		Anvil Type	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	A	7112015	7112010
1-2"	±.0002"	25-50mm	±0.004mm	A	7112025	7112020
2-3"	±.0002"	50-75mm	±0.005mm	A	7112035	7112030
3-4"	±.0002"	75-100mm	±0.005mm	A	7112045	7112040
0-1"	±.0001"	0-25mm	±0.004mm	B	7112017	7112012
1-2"	±.0002"	25-50mm	±0.004mm	B	7112027	7112022

Dimension



Range	A	C
Inch/Metric	mm	mm
0-1"/0-25mm	57	32
1-2"/25-50mm	82	44.5
2-3"/50-75mm	107	57
3-4"/75-100mm	132.6	69.5

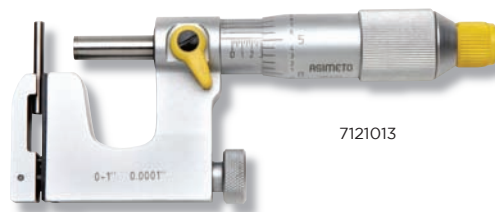


Multi-Anvil Micrometers

121 / 125 Series



7125011



7121013

STANDARD ACCESSORIES

- Battery (Digital models),
Rod Anvil, Flat Anvil
S-wrench, Standard (25-50mm)
- Warranty card, Instruction manual,
Calibration certificate



S-wrench



wrench



Battery



Standard



Anvils

FEATURES

- Resolution:
Digital reading: .00005" / 0.001mm
Scale on digital models: .0001" / 0.01mm
Scale on mechanical models: .0001" / 0.01mm
- Ratchet stop for digital models
Ratchet thimble for mechanical models
- Measures tube thickness, shoulder edge distance
rivet head height, with interchangeable anvils
(Flat Anvil, Rod Anvil, V-anvil)
- Carbide tipped measuring faces
- Chrome-plated steel feet frame
- Inch/Metric conversion
- Upon switching on the display will read
the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

SPECIFICATIONS

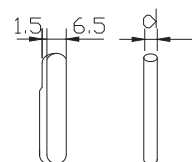
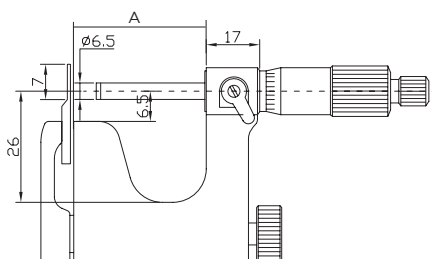
Digital models

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	±0.001"	0-25mm	±0.002mm	7125011	7125010
1-2"	±0.002"	25-50mm	±0.002mm	7125021	7125020

Mechanical models

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	±0.001"	0-25	±0.004	7121013	7121010
1-2"	±0.002"	25-50	±0.004	7121023	7121020

Dimension



Range	A	d
0-25mm	28.5mm	Φ3mm
25-50mm	53.5mm	Φ5mm

Point Micrometers

122 / 126 Series



7126021



S-wrench



Battery



Standard



7122015

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- 15 degree and 30 degree measuring points are available
- For measuring the web thickness of drills, small grooves, and other hard to reach dimensions
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

SPECIFICATIONS

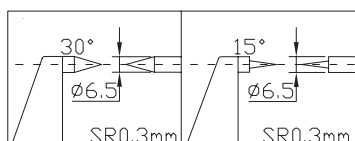
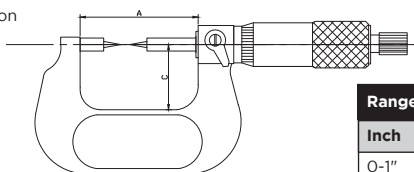
Digital models

Inch		Metric		Anvil Type	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.002mm	15°	7126011	7126010
1-2"	±.0002"	25-50mm	±0.002mm	15°	7126021	7126020
2-3"	±.0002"	50-75mm	±0.003mm	15°	7126031	7126030
3-4"	±.0002"	75-100mm	±0.003mm	15°	7126041	7126040
0-1"	±.0001"	0-25mm	±0.002mm	30°	7126013	7126012
1-2"	±.0002"	25-50mm	±0.002mm	30°	7126023	7126022
2-3"	±.0002"	50-75mm	±0.003mm	30°	7126033	7126032
3-4"	±.0002"	75-100mm	±0.003mm	30°	7126043	7126042

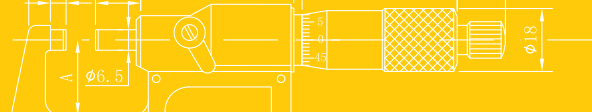
Mechanical models

Inch		Metric		Anvil Type	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	15°	7122015	7122010
1-2"	±.0002"	25-50mm	±0.004mm	15°	7122025	7122020
2-3"	±.0002"	50-75mm	±0.005mm	15°	7122035	7122030
3-4"	±.0002"	75-100mm	±0.005mm	15°	7122045	7122040
0-1"	±.0001"	0-25mm	±0.004mm	30°	7122017	7122012
1-2"	±.0002"	25-50mm	±0.004mm	30°	7122027	7122022
2-3"	±.0002"	50-75mm	±0.005mm	30°	7122037	7122032
3-4"	±.0002"	75-100mm	±0.005mm	30°	7122047	7122042

Dimension



Range	Range	A	C
Inch	Metric	mm	mm
0-1"	0-25mm	57	32
1-2"	25-50mm	82	44.5
2-3"	50-75mm	107	57
3-4"	75-100mm	132.6	69.5



Single Point Micrometers

131 / 135 Series



7135013



S-wrench



Battery



Standard



7131013

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate,
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- For measuring the height of crimp contacts
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop

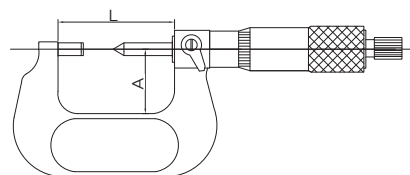
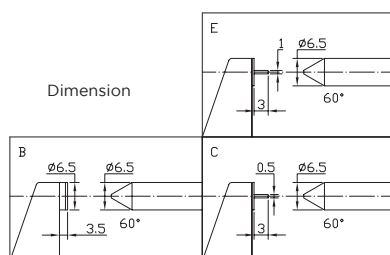
SPECIFICATIONS

Digital models

Inch		Metric			Inch	Metric
Range	Accuracy	Range	Accuracy	Anvil Type	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.002mm	B	7135011	7135010
1-2"	±.0002"	25-50mm	±0.002mm	B	7135021	7135020
2-3"	±.0002"	50-75mm	±0.003mm	B	7135031	7135030
3-4"	±.0002"	75-100mm	±0.003mm	B	7135041	7135040
0-1"	±.0001"	0-25mm	±0.002mm	C	7135013	7135012
0-1"	±.0001"	0-25mm	±0.002mm	E	7135015	7135014

Mechanical models

Inch		Metric			Inch	Metric
Range	Accuracy	Range	Accuracy	Anvil Type	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	B	7131011	7131010
1-2"	±.0002"	25-50mm	±0.004mm	B	7131021	7131020
2-3"	±.0002"	50-75mm	±0.005mm	B	7131031	7131030
3-4"	±.0002"	75-100mm	±0.005mm	B	7131041	7131040
0-1"	±.0001"	0-25mm	±0.004mm	C	7131013	7131012
0-1"	±.0001"	0-25mm	±0.004mm	E	7131015	7131014



Range	Range	L	A
Inch	Metric	mm	mm
0-1"	0-25mm	34.4	24
1-2"	25-50mm	59.4	32
2-3"	50-75mm	84.8	44.5
3-4"	75-100mm	110.2	57

Spline Micrometers

118 Series



7118021



7118611



S-wrench



Battery



Standard

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
 - Digital: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- For measuring spline shafts, slots and keyways
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Anvils A and Anvils B are optional
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes

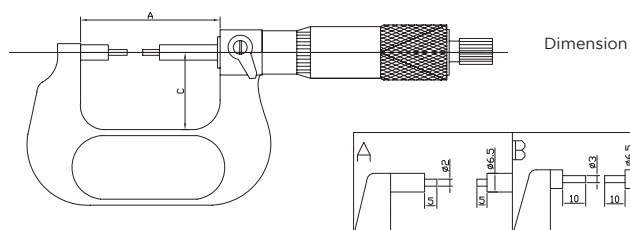
SPECIFICATIONS

Digital models

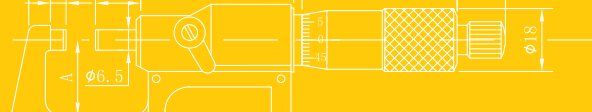
Inch		Metric		Anvil Type	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.002mm	A (Φ2"5)	7118011	7118010
1-2"	±.0002"	25-50mm	±0.002mm	A (Φ2"5)	7118021	7118020
2-3"	±.0002"	50-75mm	±0.003mm	A (Φ2"5)	7118031	7118030
3-4"	±.0002"	75-100mm	±0.003mm	A (Φ2"5)	7118041	7118040
0-1"	±.0001"	0-25mm	±0.002mm	B (Φ3"10)	7118013	7118012
1-2"	±.0002"	25-50mm	±0.002mm	B (Φ3"10)	7118023	7118022
2-3"	±.0002"	50-75mm	±0.003mm	B (Φ3"10)	7118033	7118032
3-4"	±.0002"	75-100mm	±0.003mm	B (Φ3"10)	7118043	7118042

Mechanical models

Inch		Metric		Anvil Type	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	A (Φ2"5)	7118611	7118610
1-2"	±.0002"	25-50mm	±0.004mm	A (Φ2"5)	7118621	7118620
2-3"	±.0002"	50-75mm	±0.005mm	A (Φ2"5)	7118631	7118630
3-4"	±.0002"	75-100mm	±0.005mm	A (Φ2"5)	7118641	7118640
0-1"	±.0001"	0-25mm	±0.004mm	B (Φ3"10)	7118613	7118612
1-2"	±.0002"	25-50mm	±0.004mm	B (Φ3"10)	7118623	7118622
2-3"	±.0002"	50-75mm	±0.005mm	B (Φ3"10)	7118633	7118632
3-4"	±.0002"	75-100mm	±0.005mm	B (Φ3"10)	7118643	7118642



Range	Range	A	C
Inch	Metric	mm	mm
0-1"	0-25mm	57	32
1-2"	25-50mm	82	44.5
2-3"	50-75mm	107	57
3-4"	75-100mm	132.6	69.5



Gear Tooth Micrometers

118 Series



7118319



S-wrench



Battery



Standard



7118719

FEATURES

- Resolution:
Digital reading: .00005" / 0.001mm
Scale on digital models: .0001" / 0.01mm
Scale on mechanical models: .0001" / 0.01mm
- Ratchet stop
- Grey painted steel frame

- Measures over-pin diameter of gears with precision steel (carbide) ball-tipped measuring faces
- Interchangeable ball anvil-spindle tips for various gear modules (0.6-3.5) are optional
- Set includes 10 pairs Interchangeable anvils

STANDARD ACCESSORIES

- S-wrench, battery (Digital models), Anvils 10 pairs (Set), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

SPECIFICATIONS

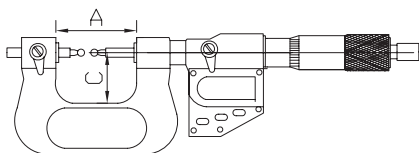
Digital models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Set Code No.	Code No.	Set Code No.
0-1"	±.0001"	0-25mm	±0.004mm	7118311	7118319	7118310	7118318
1-2"	±.0002"	25-50mm	±0.004mm	7118321	7118329	7118320	7118328
2-3"	±.0002"	50-75mm	±0.005mm	7118331	7118339	7118330	7118338
3-4"	±.0002"	75-100mm	±0.005mm	7118341	7118349	7118340	7118348
4-5"	±.0002"	100-125mm	±0.006mm	7118351	7118359	7118350	7118358
5-6"	±.0002"	125-150mm	±0.006mm	7118361	7118369	7118360	7118368
6-7"	±.0002"	150-175mm	±0.007mm	7118371	7118379	7118370	7118378

Mechanical models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Set Code No.	Code No.	Set Code No.
0-1"	±.0001"	0-25mm	±0.004mm	7118713	7118717	7118710	7118718
1-2"	±.0002"	25-50mm	±0.004mm	7118723	7118727	7118720	7118728
2-3"	±.0002"	50-75mm	±0.005mm	7118733	7118737	7118730	7118738
3-4"	±.0002"	75-100mm	±0.005mm	7118743	7118747	7118740	7118748
4-5"	±.0002"	100-125mm	±0.006mm	7118753	7118757	7118750	7118758
5-6"	±.0002"	125-150mm	±0.006mm	7118763	7118767	7118760	7118768
6-7"	±.0002"	150-175mm	±0.007mm	7118773	7118777	7118770	7118778

Dimension



Range	Range	A	C
Inch	Metric	mm	mm
0-1"	0-25mm	67	38
1-2"	25-50mm	92.4	50
2-3"	50-75mm	117.6	62
3-4"	75-100mm	143	70
4-5"	100-125mm	168.2	82
5-6"	125-150mm	192	94.5
6-7"	150-175mm	217	107

Anvils

Ball dia.	Module	Diametral pitch	Code No.
Ø1mm-Ø6.0mm	0.6-3.5	45-7	7119800
Ø1mm	0.6-0.65	45	7119810
Ø1.5mm	0.9-1.0	28-26	7119820
Ø2.0mm	1.25	22	7119830
Ø2.5mm	1.5	17	7119840
Ø3.0mm	1.75	15	7119850
Ø3.5mm	2	13	7119860
Ø4.0mm	2.25	11	7119870
Ø4.5mm	2.5	10	7119880
Ø5.0mm	2.75	9	7119890
Ø6.0mm	3.5	7	7119900

Screw Thread Micrometers

136 / 137 / 132 / 133 Series



7136011



S-wrench



Battery



Standard



7133011

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- Grey painted steel frame
- For measuring various screw threads
- Non-rotating spindle
- Ratchet stop for digital models
- Ratchet thimble for Mechanical models
- Set includes 5 pairs Interchangeable anvils
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

SPECIFICATIONS

Digital models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Set Code No.	Code No.	Set Code No.
0-1"	±.0001"	0-25mm	±0.004mm	7136011	7137011	7136010	7137010
1-2"	±.0002"	25-50mm	±0.004mm	7136021	7137021	7136020	7137020
2-3"	±.0002"	50-75mm	±0.005mm	7136031	7137031	7136030	7137030
3-4"	±.0002"	75-100mm	±0.005mm	7136041	7137041	7136040	7137040
4-5"	±.0002"	100-125mm	±0.006mm	7136051	7137051	7136050	7137050
5-6"	±.0002"	125-150mm	±0.006mm	7136061	7137061	7136060	7137060

Mechanical models

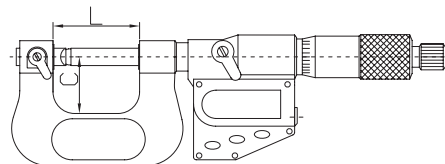
Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Set Code No.	Code No.	Set Code No.
0-1"	±.0001"	0-25mm	±0.004mm	7132013	7133013	7132010	7133010
1-2"	±.0002"	25-50mm	±0.004mm	7132023	7133023	7132020	7133020
2-3"	±.0002"	50-75mm	±0.005mm	7132033	7133033	7132030	7133030
3-4"	±.0002"	75-100mm	±0.005mm	7132043	7133043	7132040	7133040
4-5"	±.0002"	100-125mm	±0.006mm	7132053	7133053	7132050	7133050
5-6"	±.0002"	125-150mm	±0.006mm	7132063	7133063	7132060	7133060

Anvils (For screw 60° ISO)



7130600

Dimension



Pitch	Notes	Code No.
0.4-7.0mm/64-3.5TPI	Set of 6	7130600
0.4-0.5mm/64-48TPI	1 Set	7130610
0.6-0.9mm/44-28TPI	1 Set	7130620
1.0-1.75mm/24-14TPI	1 Set	7130630
2.0-3.0mm/13-9TPI	1 Set	7130640
3.5-5.0mm/8-5TPI	1 Set	7130650
5.5-7.0mm/4.5-3.5TPI	1 Set	7130660

Range	L	C
Inch/Metric	mm	mm
0-1"/0-25mm	42	26
1-2"/25-50mm	67	38
2-3"/50-75mm	92	50
3-4"/75-100mm	117.6	62
4-5"/100-125mm	143	70
5-6"/125-150mm	168.2	82



Disc Micrometers

141 / 145 Series



7145021



7141031



S-wrench



Battery



Standard

FEATURES

- Resolution:
 - Digital: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm

- For measuring gears and paper thickness
- Non rotating spindle for digital models
- Grey painted steel frame
- Ratchet stop

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

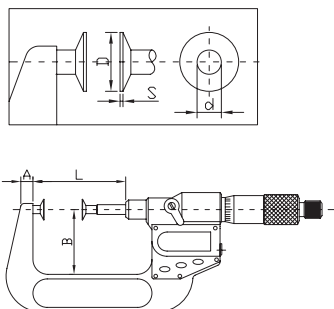
Digital models

Inch		Metric		Inch	
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	±0.001"	0-25mm	±0.005mm	7145011	7145010
1-2"	±0.002"	25-50mm	±0.005mm	7145021	7145020
2-3"	±0.002"	50-75mm	±0.006mm	7145031	7145030
3-4"	±0.002"	75-100mm	±0.006mm	7145041	7145040
4-5"	±0.002"	100-125mm	±0.007mm	7145051	7145050
5-6"	±0.002"	125-150mm	±0.007mm	7145061	7145060
6-7"	±0.002"	150-175mm	±0.008mm	7145071	7145070
7-8"	±0.002"	175-200mm	±0.008mm	7145081	7145080

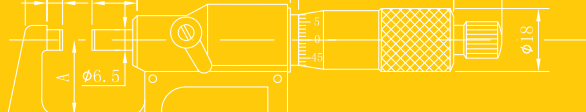
Mechanical models

Inch		Metric		Inch code No.		Metric code No.	
Range	Accuracy	Range	Accuracy	Rotating spindle	Non-rotating spindle	Rotating spindle	Non-rotating spindle
0-1"	±0.001"	0-25mm	±0.005mm	7141011	7141013	7141010	7141012
1-2"	±0.002"	25-50mm	±0.005mm	7141021	7141023	7141020	7141022
2-3"	±0.002"	50-75mm	±0.006mm	7141031	7141033	7141030	7141032
3-4"	±0.002"	75-100mm	±0.006mm	7141041	7141043	7141040	7141042
4-5"	±0.002"	100-125mm	±0.007mm	7141051	7141053	7141050	7141052
5-6"	±0.002"	125-150mm	±0.007mm	7141061	7141063	7141060	7141062
6-7"	±0.002"	150-175mm	±0.008mm	7141071	7141073	7141070	7141072
7-8"	±0.002"	175-200mm	±0.008mm	7141081	7141083	7141080	7141082

Dimension



Range	A	B	L	D	S	d
Inch/Metric	mm	mm	mm	mm	mm	mm
0-1"/0-25mm	8	32	43	20	0.7	8
1-2"/25-50mm	8	44.5	68	20	0.7	8
2-3"/50-75mm	8	57	93	20	0.7	8
3-4"/75-100mm	10	70	118.5	20	0.7	8
4-5"/100-125mm	10	82	144	30	0.9	12
5-6"/125-150mm	12	94.5	169.5	30	0.9	12
6-7"/150-175mm	12	107	194.8	30	0.9	12



Jaw Type Micrometers

122 / 126 Series



7126521



7122511



S-wrench



Battery



Standard

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes

FEATURES

- Resolution:
 - Digital readings: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- For measuring gears and step thickness
- Non-rotating spindle
- Jaw type measuring faces
- Grey painted steel frame
- Ratchet stop

SPECIFICATIONS

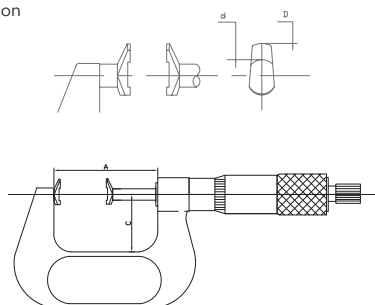
Digital models

Inch		Metric		Inch	
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	7126511	7126510
1-2"	±.0002"	25-50mm	±0.004mm	7126521	7126520
2-3"	±.0002"	50-75mm	±0.005mm	7126531	7126530
3-4"	±.0002"	75-100mm	±0.005mm	7126541	7126540
4-5"	±.0002"	100-125mm	±0.006mm	7126551	7126550
5-6"	±.0002"	125-150mm	±0.006mm	7126561	7126560
6-7"	±.0002"	150-175mm	±0.007mm	7126571	7126570
7-8"	±.0002"	175-200mm	±0.007mm	7126581	7126580

Mechanical models

Inch		Metric		Inch	
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	7122511	7122510
1-2"	±.0002"	25-50mm	±0.004mm	7122521	7122520
2-3"	±.0002"	50-75mm	±0.005mm	7122531	7122530
3-4"	±.0002"	75-100mm	±0.005mm	7122541	7122540
4-5"	±.0002"	100-125mm	±0.006mm	7122551	7122550
5-6"	±.0002"	125-150mm	±0.006mm	7122561	7122560
6-7"	±.0003"	150-175mm	±0.007mm	7122571	7122570
7-8"	±.0003"	175-200mm	±0.007mm	7122581	7122580

Dimension



Range	A	C	D	d
Inch/Metric	mm	mm	mm	mm
0-1"/0-25mm	34.4	24	R10	Φ8
1-2"/25-50mm	59.4	32	R10	Φ8
2-3"/50-75mm	84.8	44.5	R10	Φ8
3-4"/75-100mm	110.2	57	R10	Φ8
4-5"/100-125mm	137.6	69.5	R15	Φ12
5-6"/125-150mm	163	82	R15	Φ12
6-7"/150-175mm	188.4	94.5	R15	Φ12
7-8"/175-200mm	213.8	107	R15	Φ12

Universal Micrometers

142 / 146 Series



7146010



S-wrench



Battery



Standard



Anvils



7142011

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), 7 pairs Anvils, Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution: Digital reading: .00005" / 0.001mm Scale on digital models: .0001" / 0.01mm Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- With 7 pairs of interchangeable anvils, For a wide range of applications
- Grey painted steel frame
- Ratchet stop
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

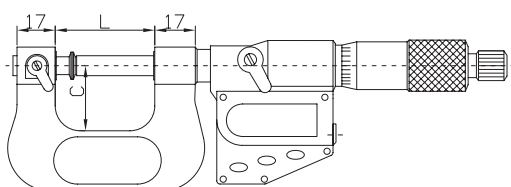
Digital models

Inch		Metric		Inch	
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	7146011	7146010
1-2"	±.0002"	25-50mm	±0.004mm	7146021	7146020
2-3"	±.0002"	50-75mm	±0.005mm	7146031	7146030
3-4"	±.0002"	75-100mm	±0.005mm	7146041	7146040
4-5"	±.0002"	100-125mm	±0.006mm	7146051	7146050
5-6"	±.0002"	125-150mm	±0.006mm	7146061	7146060
6-7"	±.0002"	150-175mm	±0.007mm	7146071	7146070
7-8"	±.0002"	175-200mm	±0.007mm	7146081	7146080

Mechanical models

Inch		Metric		Inch	
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	7142013	7142010
1-2"	±.0002"	25-50mm	±0.004mm	7142023	7142020
2-3"	±.0002"	50-75mm	±0.005mm	7142033	7142030
3-4"	±.0002"	75-100mm	±0.005mm	7142043	7142040
4-5"	±.0002"	100-125mm	±0.006mm	7142053	7142050
5-6"	±.0002"	125-150mm	±0.006mm	7142063	7142060
6-7"	±.0002"	150-175mm	±0.007mm	7142073	7142070
7-8"	±.0002"	175-200mm	±0.007mm	7142083	7142080

Dimension



Range	C		L
	Inch/Metric	mm	mm
0-1"/0-25mm		26	42
1-2"/25-50mm		38	67
2-3"/50-75mm		50	92
3-4"/75-100mm		62	118
4-5"/100-125mm		70	143
5-6"/125-150mm		82	168
6-7"/150-175mm		95	192
7-8"/175-200mm		107	217

Anvils	Type
Flat	
Spherical	
Blade	
Point	
Spline	
Disc	
Knife-edge	

V-Anvil Micrometers

151 / 155 Series



7155011



7155015



S-wrench



Battery



Standard

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- For measuring the outside diameter of cutting tools such as taps, reamers and end mills
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

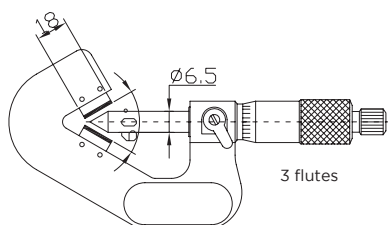
Digital models

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
3 flutes					
.04-.6"	±.0001"	1-15mm	±0.004mm	7155011	7155010
.2-.8"	±.0001"	5-20mm	±0.004mm	7155021	7155020
.8-1.4"	±.0002"	20-35mm	±0.005mm	7155031	7155030
5 flutes					
2.0-1.0"	±.0001"	5-25mm	±0.004mm	7155015	7155014
1.0-1.8"	±.0002"	25-45mm	±0.005mm	7155025	7155024

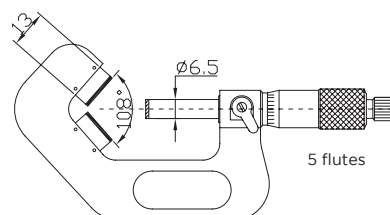
Mechanical models

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
3 flutes					
.04-.6"	±.0001"	1-15mm	±0.004mm	7151013	7151010
.2-.8"	±.0001"	5-20mm	±0.004mm	7151023	7151020
.8-1.4"	±.0002"	20-35mm	±0.005mm	7151033	7151030
5 flutes					
.2-1.0"	±.0001"	5-25mm	±0.004mm	7151017	7151014
1.0-1.8"	±.0002"	25-45mm	±0.005mm	7151027	7151024

Dimension



3 flutes



5 flutes



Tube Micrometers

143 / 147 Series



7147011



7143011



S-wrench



Battery



Standard

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- For measuring wall thickness of various tubes
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Anvils J and Anvils K are optional

SPECIFICATIONS

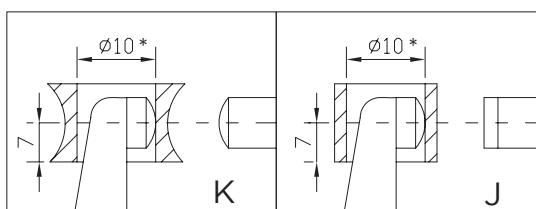
Digital models

Inch		Metric		Anvils	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.002mm	J	7147011	7147010
1-2"	±.0002"	25-50mm	±0.002mm	J	7147021	7147020
2-3"	±.0002"	50-75mm	±0.003mm	J	7147031	7147030
3-4"	±.0002"	75-100mm	±0.003mm	J	7147041	7147040
0-1"	±.0001"	0-25mm	±0.002mm	K	7147013	7147012
1-2"	±.0002"	25-50mm	±0.002mm	K	7147023	7147022
2-3"	±.0002"	50-75mm	±0.003mm	K	7147033	7147032
3-4"	±.0002"	75-100mm	±0.003mm	K	7147043	7147042

Mechanical models

Inch		Metric		Anvils	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	J	7143011	7143010
1-2"	±.0002"	25-50mm	±0.004mm	J	7143021	7143020
2-3"	±.0002"	50-75mm	±0.005mm	J	7143031	7143030
3-4"	±.0002"	75-100mm	±0.005mm	J	7143041	7143040
0-1"	±.0001"	0-25mm	±0.004mm	K	7143013	7143012
1-2"	±.0002"	25-50mm	±0.004mm	K	7143023	7143022
2-3"	±.0002"	50-75mm	±0.005mm	K	7143033	7143032
3-4"	±.0002"	75-100mm	±0.005mm	K	7143043	7143042

Dimension



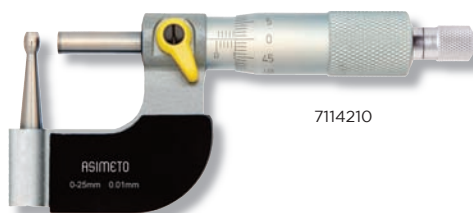
* Min dimension of measured diameter

Tube Micrometers

113 / 114 Series



7113011



7114210



S-wrench



Battery



Standard

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models)
- Standard (25-50mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- For measuring wall thickness of various tubes
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Six Anvils are optional
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

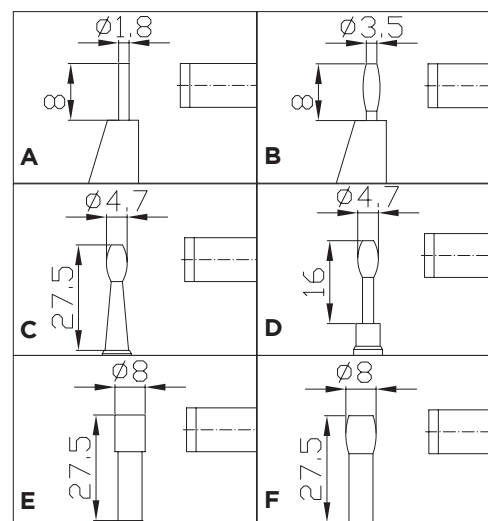
Digital models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Anvils	Code No.	Code No.	
0-1"	±.0001"	0-25mm	±0.004mm	A	7113011	7113010	
1-2"	±.0002"	25-50mm	±0.004mm	A	7113021	7113020	
0-1"	±.0001"	0-25mm	±0.004mm	C	7113211	7113210	
1-2"	±.0002"	25-50mm	±0.004mm	C	7113221	7113220	
0-1"	±.0001"	0-25mm	±0.004mm	E	7113411	7113410	
1-2"	±.0002"	25-50mm	±0.004mm	E	7113421	7113420	
0-1"	±.0001"	0-25mm	±0.004mm	B	7113111	7113110	
1-2"	±.0002"	25-50mm	±0.004mm	B	7113121	7113120	
0-1"	±.0001"	0-25mm	±0.004mm	D	7113311	7113310	
1-2"	±.0002"	25-50mm	±0.004mm	D	7113321	7113320	
0-1"	±.0001"	0-25mm	±0.004mm	F	7113511	7113510	
1-2"	±.0002"	25-50mm	±0.004mm	F	7113521	7113520	

Mechanical models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Anvils	Code No.	Code No.	
0-1"	±.0001"	0-25mm	±0.004mm	A	7114011	7114010	
1-2"	±.0002"	25-50mm	±0.004mm	A	7114021	7114020	
0-1"	±.0001"	0-25mm	±0.004mm	C	7114211	7114210	
1-2"	±.0002"	25-50mm	±0.004mm	C	7114221	7114220	
0-1"	±.0001"	0-25mm	±0.004mm	E	7114411	7114410	
1-2"	±.0002"	25-50mm	±0.004mm	E	7114421	7114420	
0-1"	±.0001"	0-25mm	±0.004mm	B	7114111	7114110	
1-2"	±.0002"	25-50mm	±0.004mm	B	7114121	7114120	
0-1"	±.0001"	0-25mm	±0.004mm	D	7114311	7114310	
1-2"	±.0002"	25-50mm	±0.004mm	D	7114321	7114320	
0-1"	±.0001"	0-25mm	±0.004mm	F	7114511	7114510	
1-2"	±.0002"	25-50mm	±0.004mm	F	7114521	7114520	

Dimension



Deep Throat Micrometers

150 / 157 Series



7157511



7150510



S-wrench



Battery



Standard

FEATURES

- Resolution:
Digital reading: .00005" / 0.001mm
Scale on digital models: .0001" / 0.01mm
Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- Three Anvils are optional

- For measuring thickness of sheet metal, paper and sheet plastic
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (25-50mm range)
- Warranty card, Instruction manual, Calibration certificate
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

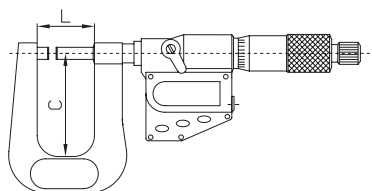
Digital models

Inch		Metric		Inch Code No.			Metric Code No.			
Throat depth	Range	Accuracy	Range	Accuracy	Type A	Type B	Type C	Type A	Type B	Type C
50mm	0-1"	±.0002"	0-25mm	±0.004mm	7157011	7157311	7157511	7157010	7157310	7157510
50mm	1-2"	±.0002"	25-50mm	±0.004mm	7157021	7157321	7157521	7157020	7157320	7157520
100mm	0-1"	±.0002"	0-25mm	±0.005mm	7157013	7157313	7157513	7157012	7157312	7157512
100mm	1-2"	±.0002"	25-50mm	±0.005mm	7157023	7157323	7157523	7157022	7157322	7157522
150mm	0-1"	±.0003"	0-25mm	±0.006mm	7157015	7157315	7157515	7157014	7157314	7157514
150mm	1-2"	±.0003"	25-50mm	±0.006mm	7157025	7157325	7157525	7157024	7157324	7157524
300mm	0-1"	±.0003"	0-25mm	±0.007mm	7157017	7157317	-	7157016	7157316	-
300mm	1-2"	±.0003"	25-50mm	±0.007mm	7157027	7157327	-	7157026	7157326	-

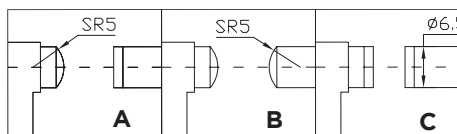
Mechanical models

Inch		Metric		Inch Code No.			Metric Code No.			
Throat depth	Range	Accuracy	Range	Accuracy	Type A	Type B	Type C	Type A	Type B	Type C
50mm	0-1"	±.0002"	0-25mm	±0.004mm	7150011	7150311	7150511	7150010	7150310	7150510
50mm	1-2"	±.0002"	25-50mm	±0.004mm	7150021	7150321	7150521	7150020	7150320	7150520
100mm	0-1"	±.0002"	0-25mm	±0.005mm	7150013	7150313	7150513	7150012	7150312	7150512
100mm	1-2"	±.0002"	25-50mm	±0.005mm	7150023	7150323	7150523	7150022	7150322	7150522
150mm	0-1"	±.0003"	0-25mm	±0.006mm	7150015	7150315	7150515	7150014	7150314	7150514
150mm	1-2"	±.0003"	25-50mm	±0.006mm	7150025	7150325	7150525	7150024	7150324	7150524
300mm	0-1"	±.0003"	0-25mm	±0.007mm	7150017	7150317	-	7150016	7150316	-
300mm	1-2"	±.0003"	25-50mm	±0.007mm	7150027	7150327	-	7150026	7150326	-

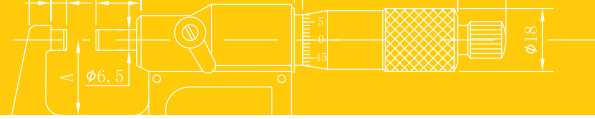
Dimension



Anvils



Throat depth	Range	L	C	Range	L	C
mm	Inch/Metric	mm	mm	Inch/Metric	mm	mm
50	0-1"/0-25mm	32	55	1-2"/25-50mm	57	55
100	0-1"/0-25mm	32	105	1-2"/25-50mm	57	105
200	0-1"/0-25mm	32	155	1-2"/25-50mm	57	155
300	0-1"/0-25mm	32	310	1-2"/25-50mm	57	310



Limit Micrometers

133 Series



7133311



S-wrench



Standard

FEATURES

- Graduation: .0001" / 0.002mm
- Grey painted steel frame
- Carbide tipped measuring faces
- Can be used as a GO/NOGO gauge by setting the upper and lower limits

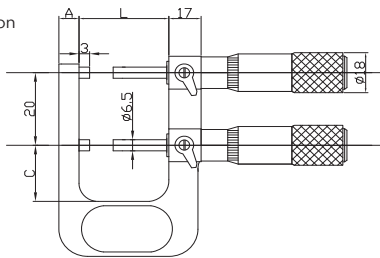
STANDARD ACCESSORIES

- S-wrench, Standard (25-50mm range)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.003mm	7133311	7133310
1-2"	±.0002"	25-50mm	±0.003mm	7133321	7133320

Dimension



Range	A	L	C
Inch/Metric	mm	mm	mm
0-1"/0-25mm	12	32	24
1-2"/25-50mm	15	57	32

Wire Micrometers

161 Series

FEATURES

- Graduation: .0001" / 0.01mm
- Chrome-plated steel feet Frame
- Carbide tipped measuring faces
- For measuring the diameter of wire and small spheres
- Ratchet stop



7161010



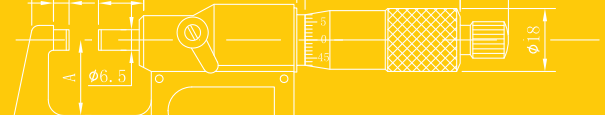
S-wrench

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate

SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-.4"	±.0001"	0-10mm	±0.004mm	7161013	7161010



Sheet Metal Micrometers

158 Series



7150511



S-wrench

FEATURES

- Graduation: .001" / 0.01mm
- Grey painted steel frame
- Carbide tipped measuring faces
- The dial reading allows for quick reading of sheet metal thickness
- Ratchet stop

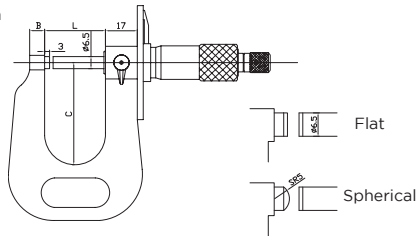
STANDARD ACCESSORIES

- S-wrench
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		Measuring faces	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-.6"	±.0001"	0-15mm	±0.004mm	Flat	7158511	7158510
0-1"	±.0002"	0-25mm	±0.004mm	Flat	7158521	7158520
1-2"	±.0002"	0-50mm	±0.005mm	Flat	7158531	7158530
0-.6"	±.0001"	0-15mm	±0.004mm	Spherical	7158513	7158512
0-1"	±.0002"	0-25mm	±0.004mm	Spherical	7158523	7158522
0-2"	±.0002"	0-50mm	±0.005mm	Spherical	7158533	7158532

Dimension



Range	L	B	C
Inch/Metric	mm	mm	mm
0-0.6"/0-15mm	22	8	55
0-1"/0-25mm	32	8	55
0-2"/0-50mm	57	12	105

Hub Micrometers

160 Series



7160010

FEATURES

- Graduation: .0001" / 0.01mm
- Carbide tipped measuring faces
- Measures the hub thickness and shoulders inside the bore
- Ratchet stop

STANDARD ACCESSORIES

- S-wrench, Standard (over 1"/25mm range)
- Warranty card, Calibration certificate

S-wrench



Standard

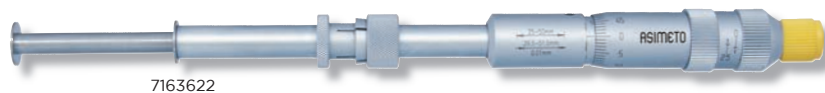


SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	7160011	7160010
1-2"	±.0002"	25-50mm	±0.004mm	7160021	7160020
2-3"	±.0002"	50-75mm	±0.005mm	7160031	7160030
3-4"	±.0002"	75-100mm	±0.005mm	7160041	7160040

Groove Micrometers

163 Series



FEATURES

- Graduation: .001" / 0.01mm
- Parallelism: .001" / 0.01mm
- Non-rotating spindle with bi-directional ratchet stop
- Contact faces allow for the measurement of both internal and external grooves, widths and flanks
- Individual scales readings are provided for inside and outside measurements

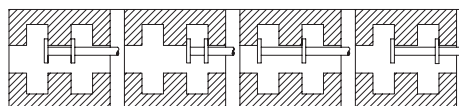
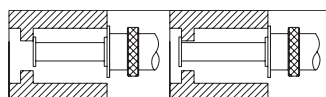
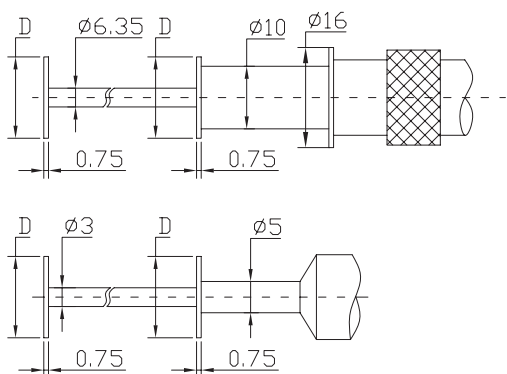
STANDARD ACCESSORIES

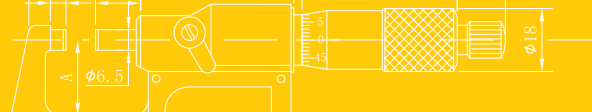
- S-wrench
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric				Inch		Metric
Flange Diameter	Range Outside	Range Inside	Accuracy	Range outside	Range inside	Accuracy	Code No.	Code No.
Without measuring force								
6.5mm	0-1"	.06-1.05"	±.001"	0-25mm	1.6-26.5mm	±0.01mm	7163011	7163010
13mm	0-1"	.06-1.05"	±.001"	0-25mm	1.6-26.5mm	±0.01mm	7163013	7163012
13mm	1-2"	1.05-2.05"	±.001"	25-50mm	26.5-51.5mm	±0.01mm	7163023	7163022
13mm	2-3"	2.05-3.05"	±.001"	50-75mm	51.5-76.5mm	±0.01mm	7163033	7163032
13mm	3-4"	3.05-4.05"	±.001"	75-100mm	76.5-101.5mm	±0.01mm	7163043	7163042
Two-directional measuring force								
6.5mm	0-1"	.06-1.05"	±.001"	0-25mm	1.6-26.5mm	±0.01mm	7163611	7163610
13mm	0-1"	.06-1.05"	±.001"	0-25mm	1.6-26.5mm	±0.01mm	7163613	7163612
13mm	1-2"	1.05-2.05"	±.001"	25-50mm	26.5-51.5mm	±0.01mm	7163623	7163622
13mm	2-3"	2.05-3.05"	±.001"	50-75mm	51.5-76.5mm	±0.01mm	7163633	7163632
13mm	3-4"	3.05-4.05"	±.001"	75-100mm	76.5-101.5mm	±0.01mm	7163643	7163642

Dimension





Indicating Micrometers

152 Series



7152010



S-wrench



Standard

FEATURES

- Resolution:
Indicator: .00005" / 0.001mm
Scale: .0001" / 0.002mm
- Carbide tipped measuring faces
- Grey painted steel frame
- Indicator range: $\pm 0.04\text{mm}$
- Retractable anvil with an indicator for precision measurement of mass-produced parts

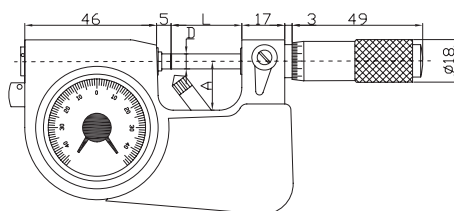
STANDARD ACCESSORIES

- S-wrench, Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	$\pm 0.001"$	0-25mm	$\pm 0.002\text{mm}$	7152011	7152010
1-2"	$\pm 0.002"$	25-50mm	$\pm 0.002\text{mm}$	7152021	7152020
2-3"	$\pm 0.002"$	50-75mm	$\pm 0.003\text{mm}$	7152031	7152030
3-4"	$\pm 0.002"$	75-100mm	$\pm 0.003\text{mm}$	7152041	7152040

Dimension



Range	L	A	D
Inch/Metric	mm	mm	mm
0-1"/0-25mm	28.5	19	$\Phi 6.5$
1-2"/25-50mm	53.5	30	$\Phi 6.5$
2-3"/50-75mm	78.5	45	$\Phi 6.5$
3-4"/75-100mm	103.5	57	$\Phi 6.5$

Hot Sheet Micrometers

133 Series



7133410

FEATURES

- Graduation: .002" / 0.05mm
- Grey painted steel frame
- Designed for measuring thickness of hot rolling sheet metal
- Carbide tipped measuring faces

SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-.6"	.002"	0-15mm	0.05mm	7133411	7133410
.6-1.2"	.002"	15-30mm	0.05mm	7133421	7133420
1.2-1.8"	.002"	30-45mm	0.05mm	7133431	7133430
1.8-2.4"	.002"	45-60mm	0.05mm	7133441	7133440
2.4-3.0"	.002"	60-75mm	0.05mm	7133451	7133450
3.0-3.6"	.002"	75-90mm	0.05mm	7133461	7133460
3.6-4.2"	.002"	90-105mm	0.05mm	7133471	7133470

STANDARD ACCESSORIES

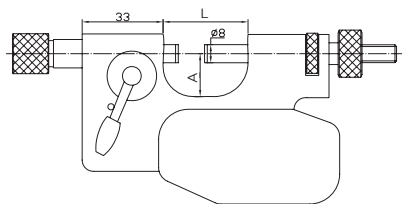
- Warranty card

181 Series



- Grey painted steel frame
- Carbide tipped measuring faces
- Dial gauge is not included and is optional, Refer to page 95
(The measuring resolution is indicative of the dial gauge)
- 8mm diameter stem dial gauge
- Suitable for quickly measuring dimensions of mass-produced work pieces
- Type A and type B measuring anvil configurations are available

Type A		Inch	Metric	Type B		Inch	Metric
Range	Range	Code No.	Code No.	Range	Range	Code No.	Code No.
0-1"	0-25mm	7181011	7181010	0-1.5"	0-40mm	7181013	7181012
0-2"	0-50mm	7181021	7181020	1.5-3.5"	40-90mm	7181023	7181022
2-4"	50-100mm	7181041	7181040	3.5-5.5"	90-140mm	7181043	7181042
4-6"	100-150mm	7181061	7181060	5.5-7.5"	140-190mm	7181063	7181062
6-8"	150-200mm	7181081	7181080				



Type B

Range	L	A
mm	mm	mm
0-25	34	18
0-50	62	32
50-100	112	62
100-150	162	85
150-200	212	110

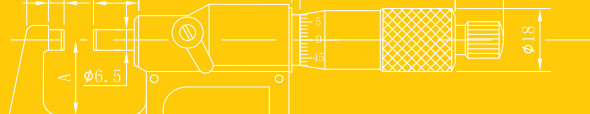
182 Series



- Grey painted steel frame
- Dial gauge is not included and is optional (The measuring resolution is indicative of the dial gauge)
 , Refer to page 89
- 8mm diameter stem dial gauge
- Suitable for quickly measuring dimensions of mass-produced work pieces
- The measuring anvils are designed with a angle to allow for easy insertion of the work piece
- Dimension of measuring face: 14x11mm

- Warranty card,
Instruction manual

Inch	Metric			Inch	Metric
Range	Range	L	B	Code No.	Code No.
0-1"	0-25mm	42mm	20mm	7182011	7182010
0-2"	25-50mm	69mm	32.5mm	7182021	7182020
2-3"	50-75mm	94mm	45mm	7182031	7182030
3-4"	75-100mm	119mm	57.5mm	7182041	7182040
4-5"	100-125mm	144mm	70mm	7182051	7182050
5-6"	125-150mm	169mm	82.5mm	7182061	7182060
6-7"	150-175mm	194mm	95mm	7182071	7182070
7-8"	175-200mm	219mm	107.5mm	7182081	7182080
8-9"	200-225mm	244mm	120mm	7182091	7182090
9-10"	225-250mm	269mm	132.5mm	7182101	7182100
10-11"	250-275mm	294mm	145mm	7182111	7182110
11-12"	275-300mm	319mm	157.5mm	7182121	7182120



Can Seam Micrometers

162 Series



7162010



7162012



7162014

FEATURES

- Graduation: .0001" / 0.01mm
- Painted steel frame
- Measures the width, height, and depth of can seams
- The different models correspond to the type of cans as per the chart below



S-wrench

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate

SPECIFICATIONS

Inch		Metric		Inch Code No.			Metric Code No.		
Range	Accuracy	Range	Accuracy	Steel Cans	Aluminum Cans	Aerosol Cans	Steel Cans	Aluminum Cans	Aerosol Cans
0-.6"	±.0001"	0-13mm	±0.004mm	7162017	7162018	7162019	7162010	7162012	7162014

Digital Micrometer Heads

165 Series



7165011



S-wrench



Battery

STANDARD ACCESSORIES

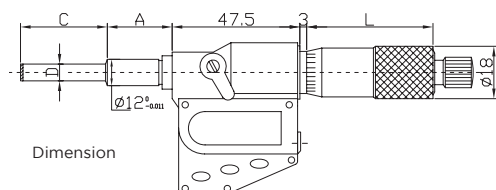
- S-wrench, Battery
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
 - Digital: .00005" / 0.001mm
 - Scale: .0001" / 0.01mm
- Protection level IP65
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Extra large LCD readout
- Absolute or incremental measuring modes
- Carbide tipped measuring faces
- Ratchet stop

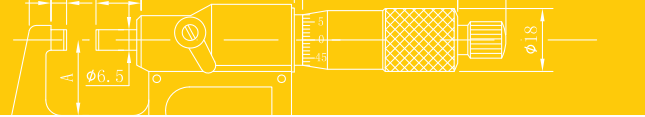
SPECIFICATIONS

Inch		Metric				Inch		Metric	
Range	Accuracy	Range	Accuracy	Measuring face	Clamp Nut	Code No.	Code No.	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.003mm	Flat & Carbide tipped	w/o	7165011	7165010	7165011	7165010
0-1"	±.0001"	0-25mm	±0.003mm	Spherical	w/o	7165013	7165012	7165013	7165012
0-1"	±.0001"	0-25mm	±0.003mm	With non-rotating device	w/o	7165015	7165014	7165015	7165014
0-1"	±.0001"	0-25mm	±0.003mm	Flat & Carbide tipped	with	7165611	7165610	7165611	7165610
0-1"	±.0001"	0-25mm	±0.003mm	Spherical	with	7165613	7165612	7165613	7165612
0-1"	±.0001"	0-25mm	±0.003mm	With non-rotating device	with	7165615	7165614	7165615	7165614
0-2"	±.0002"	0-50mm	±0.005mm	Flat & Carbide tipped	w/o	7165021	7165020	7165021	7165020
0-2"	±.0002"	0-50mm	±0.005mm	Spherical	w/o	7165023	7165022	7165023	7165022



Dimension

Range	D	A	C	L
0-1"/0-25mm	Φ6.5mm	17.5mm	28.5mm	47mm
0-1"/0-50mm	Φ8mm	35.5mm	53mm	71.5mm



Micrometer Heads

169 Series



7169057



7169050

FEATURES

- Graduation: .001" / 0.01mm
- Satin chrome finish
- Ratchet stop for 0-25mm range

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Instruction manual, Calibration certificate

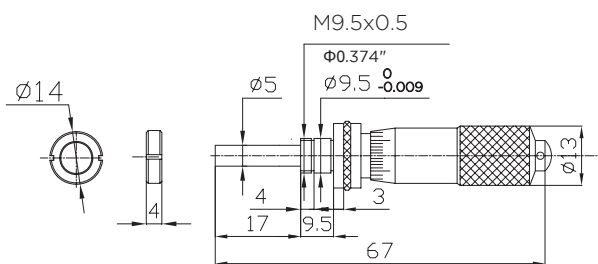
SPECIFICATIONS

Inch			Metric							
Range	Accuracy	Spindle Dia.	Range	Accuracy	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut	Code No.	Code No.
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	w/o	Flat	w/o	7169051	7169050
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	with	Flat	with	7169053	7169052
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	w/o	Spherical	w/o	7169055	7169054
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	with	Spherical	with	7169057	7169056
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	w/o	Flat	with	7169059	7169058
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	with	Carbide & Flat	with	7169351	7169350
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	w/o	Carbide & Spherical	w/o	7169353	7169352
0-1"	±.0001"	Φ0.256"	0-25mm	±0.004mm	Φ6.5mm	w/o	Carbide & Spherical	with	7169011	7169010

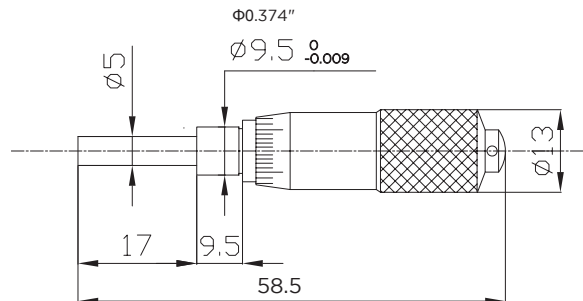
Dimension

7169052/3 7169056/7 7169350/1

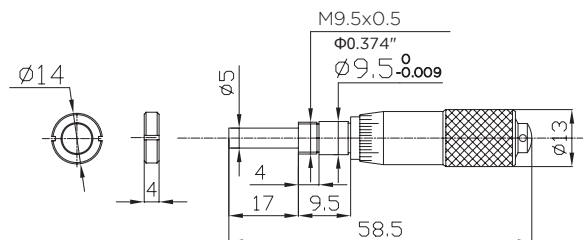
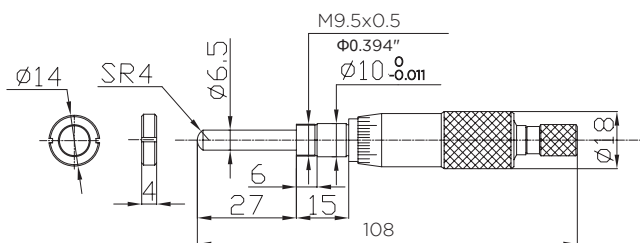
7169050/1 7169054/5 7169352/3

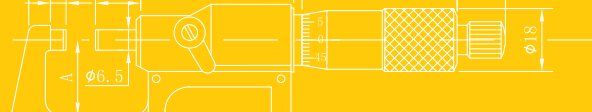


7169010/1



7169058/9





Depth Micrometers

201 / 202 / 205 Series



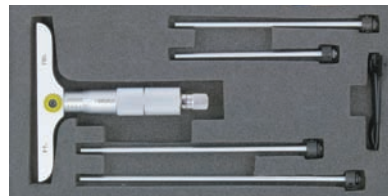
7205043



7201067



7202042



7201043



FEATURES

- Resolution:
Digital models: .00005" / 0.001mm
Mechanical models: .0001" / 0.01mm
Digital models: .001" / 0.01mm
- Protection level IP65
- Ratchet stop
- The integrity of the measurements are maintained throughout the total range of the measuring rods. However the measuring rods must be kept as a set and may not be interchangeable with other depth micrometers sets
- Both flat and spherical depth rod sets are available
- The measurement mode of Absolute or Incremental is displayed when turned on
- The battery life is maximized with the automatic On/Off feature
- Inch/Metric conversion

STANDARD ACCESSORIES

- Battery (Digital models), Rods, Y-wrench, S-wrench, HEX-wrench (Mechanical Models), Torque Wrench (Mechanical Models), Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric				Inch Code No.		Metric Code No.	
Range	Accuracy	Range	Accuracy	Base length	Rods	Flat end	Spherical end	Flat end	Spherical end
Digit models									
0-2"	±.0002"	0-50mm	±.004mm	63mm	2 pcs	7202021	7202521	7202020	7202520
0-4"	±.0002"	0-100mm	±.005mm	63mm	4 pcs	7202041	7202541	7202040	7202540
0-6"	±.0002"	0-150mm	±.005mm	63mm	6 pcs	7202061	7202561	7202060	7202560
0-12"	±.00028"	0-300mm	±.007mm	63mm	12 pcs	7202121	7202621	7202120	7202620
0-4"	±.0002"	0-100mm	±.005mm	101.5mm	4 pcs	7202043	7202543	7202042	7202542
0-6"	±.0002"	0-150mm	±.005mm	101.5mm	6 pcs	7202063	7202563	7202062	7202562
0-12"	±.00028"	0-300mm	±.007mm	101.5mm	12 pcs	7202123	7202623	7202122	7202622
Digital models									
0-2"	±.0002"	0-50mm	±.004mm	63mm	2 pcs	7205021	7205521	7205020	7205520
0-4"	±.0002"	0-100mm	±.005mm	63mm	4 pcs	7205041	7205541	7205040	7205540
0-6"	±.0002"	0-150mm	±.005mm	63mm	6 pcs	7205061	7205561	7205060	7205560
0-12"	±.00028"	0-300mm	±.007mm	63mm	12 pcs	7205121	7205621	7205120	7205620
0-4"	±.0002"	0-100mm	±.005mm	101.5mm	4 pcs	7205043	7205543	7205042	7205542
0-6"	±.0002"	0-150mm	±.005mm	101.5mm	6 pcs	7205063	7205563	7205062	7205562
0-12"	±.00028"	0-300mm	±.007mm	101.5mm	12 pcs	7205123	7205623	7205122	7205622
Mechanical models									
0-2"	±.0002"	0-50mm	±.004mm	63mm	2 pcs	7201025	7201525	7201020	7201520
0-4"	±.0002"	0-100mm	±.005mm	63mm	4 pcs	7201045	7201545	7201040	7201540
0-6"	±.0002"	0-150mm	±.005mm	63mm	6 pcs	7201065	7201565	7201060	7201560
0-12"	±.00028"	0-300mm	±.007mm	63mm	12 pcs	7201125	7201625	7201120	7201620
0-4"	±.0002"	0-100mm	±.005mm	101.5mm	4 pcs	7201049	7201549	7201042	7201542
0-6"	±.0002"	0-150mm	±.005mm	101.5mm	6 pcs	7201069	7201569	7201062	7201562
0-12"	±.00028"	0-300mm	±.007mm	101.5mm	12 pcs	7201129	7201629	7201122	7201622
Mechanical models - Half base									
0-4"	±.0002"	0-100mm	±.005mm	57mm	4 pcs	7201047	-	7201046	-
0-6"	±.0002"	0-150mm	±.005mm	57mm	6 pcs	7201067	-	7201066	-



Micrometer Standards

110 Series



FEATURES

- Used for zero point setting of outside micrometers
- Heat insulating handle to prevent heat expansion due to body temperature
- Flat measuring face for up to 11"/275mm size standards
Spherical measuring face for over 12"/300mm size standards

SPECIFICATIONS

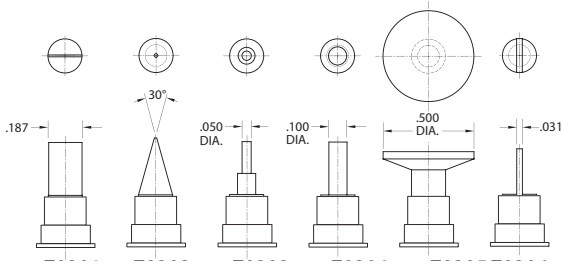
Inch			
Size	Accuracy	Diameter	Code No.
1"	±0.00005"	Φ7mm	7110011
2"	±0.0001"	Φ7mm	7110021
3"	±0.0001"	Φ7mm	7110031
4"	±0.0001"	Φ8mm	7110041
5"	±0.00015"	Φ8mm	7110051
6"	±0.00015"	Φ8mm	7110061
7"	±0.00015"	Φ8mm	7110071
8"	±0.00015"	Φ8mm	7110081
9"	±0.00020"	Φ8mm	7110091
10"	±0.00020"	Φ8mm	7110101
11"	±0.00020"	Φ8mm	7110111
12"	±0.00025"	Φ16mm	7110121
13"	±0.00025"	Φ16mm	7110131
14"	±0.00025"	Φ16mm	7110141
15"	±0.00025"	Φ16mm	7110151
16"	±0.00025"	Φ16mm	7110161
17"	±0.00025"	Φ16mm	7110171
18"	±0.00025"	Φ16mm	7110181
19"	±0.00030"	Φ16mm	7110191
20"	±0.00030"	Φ16mm	7110201
21"	±0.00030"	Φ16mm	7110211
23"	±0.00030"	Φ16mm	7110221
25"	±0.00030"	Φ16mm	7110231
27"	±0.00035"	Φ16mm	7110241
29"	±0.00035"	Φ16mm	7110251
31"	±0.00035"	Φ16mm	7110261
33"	±0.00035"	Φ16mm	7110271
35"	±0.00035"	Φ16mm	7110281
37"	±0.00035"	Φ16mm	7110291

Metric			
Size	Accuracy	Diameter	Code No.
25mm	±0.002mm	Φ7mm	7110010
50mm	±0.0020mm	Φ7mm	7110020
75mm	±0.0020mm	Φ7mm	7110030
100mm	±0.0020mm	Φ8mm	7110040
125mm	±0.0020mm	Φ8mm	7110050
150mm	±0.0030mm	Φ8mm	7110060
175mm	±0.0030mm	Φ8mm	7110070
200mm	±0.0030mm	Φ8mm	7110080
225mm	±0.0040mm	Φ8mm	7110090
250mm	±0.0040mm	Φ8mm	7110100
275mm	±0.0040mm	Φ8mm	7110110
300mm	±0.0050mm	Φ16mm	7110120
325mm	±0.0050mm	Φ16mm	7110130
350mm	±0.0050mm	Φ16mm	7110140
375mm	±0.0050mm	Φ16mm	7110150
400mm	±0.0050mm	Φ16mm	7110160
425mm	±0.0050mm	Φ16mm	7110170
450mm	±0.0060mm	Φ16mm	7110180
475mm	±0.0060mm	Φ16mm	7110190
500mm	±0.0060mm	Φ16mm	7110200
525mm	±0.0060mm	Φ16mm	7110210
575mm	±0.0060mm	Φ16mm	7110220
625mm	±0.0070mm	Φ16mm	7110230
675mm	±0.0070mm	Φ16mm	7110240
725mm	±0.0070mm	Φ16mm	7110250
775mm	±0.0080mm	Φ16mm	7110260
825mm	±0.0080mm	Φ16mm	7110270
875mm	±0.0080mm	Φ16mm	7110280
925mm	±0.0080mm	Φ16mm	7110290
975mm	±0.0080mm	Φ16mm	7110300
1050mm	±0.0090mm	Φ23mm	7110310
1150mm	±0.0090mm	Φ23mm	7110320
1250mm	±0.0090mm	Φ23mm	7110330
1350mm	±0.0105mm	Φ23mm	7110340
1450mm	±0.0105mm	Φ23mm	7110350
1550mm	±0.0105mm	Φ23mm	7110360
1650mm	±0.0125mm	Φ23mm	7110370
1750mm	±0.0125mm	Φ23mm	7110380
1850mm	±0.0125mm	Φ23mm	7110390
1950mm	±0.0125mm	Φ23mm	7110400



Micrometer Anvil Attachments

146 Series



FEATURES

- A must accessory for every Micrometer.
- Each Anvil is 1/2" long. Comes with reinforced holding boot, and will fit on any 1-12" Micrometer.
- Anvils are hardened Steel with Black Oxide finish
- Fits .235 and .250 spindle diameters

SPECIFICATIONS

7 PCS Set Code No.: 7146700		
Individuals	Description	Code No.
Super Spline	.050" face	7146710
Spline	.100" face	7146720
Blade	.300" thick	7146730
Disc	.500" face	7146740
Knife	30 degrees	7146750
Comparator	30 degrees	7146760
Ball attachment	.200"	7146770
Ball attachment	5mm	7146772 *

* The set not included

Thread Measuring Triangle Set

146 Series

FEATURES

- Measures simulated thread pitch diameter to reference thread chart provided for all 60 degree threads
- Made of hardened steel with black oxide finish
- Set includes:
 - 2 Thread Triangles,
 - 2 rubber holding bands
 - Protective hinged plastic case complete with Unified thread chart

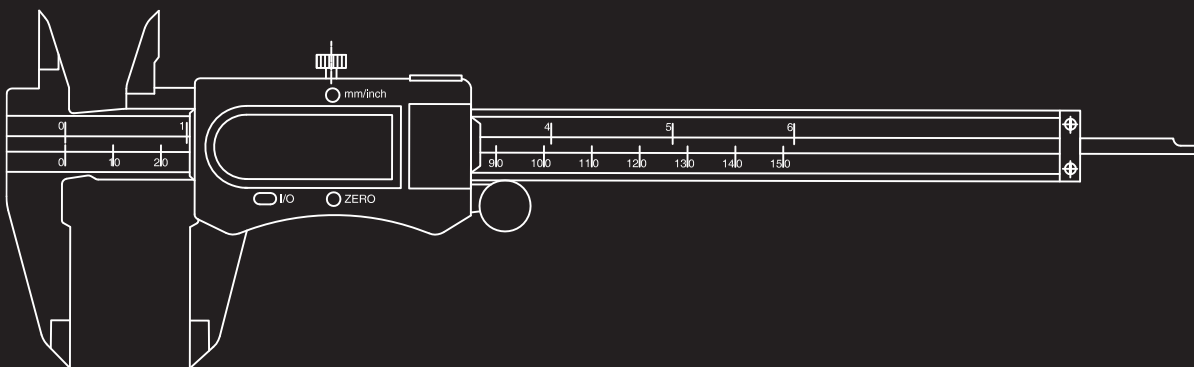


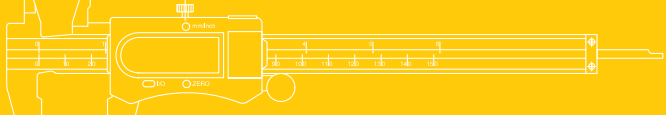
SPECIFICATIONS

Code No.
7146800

Calipers

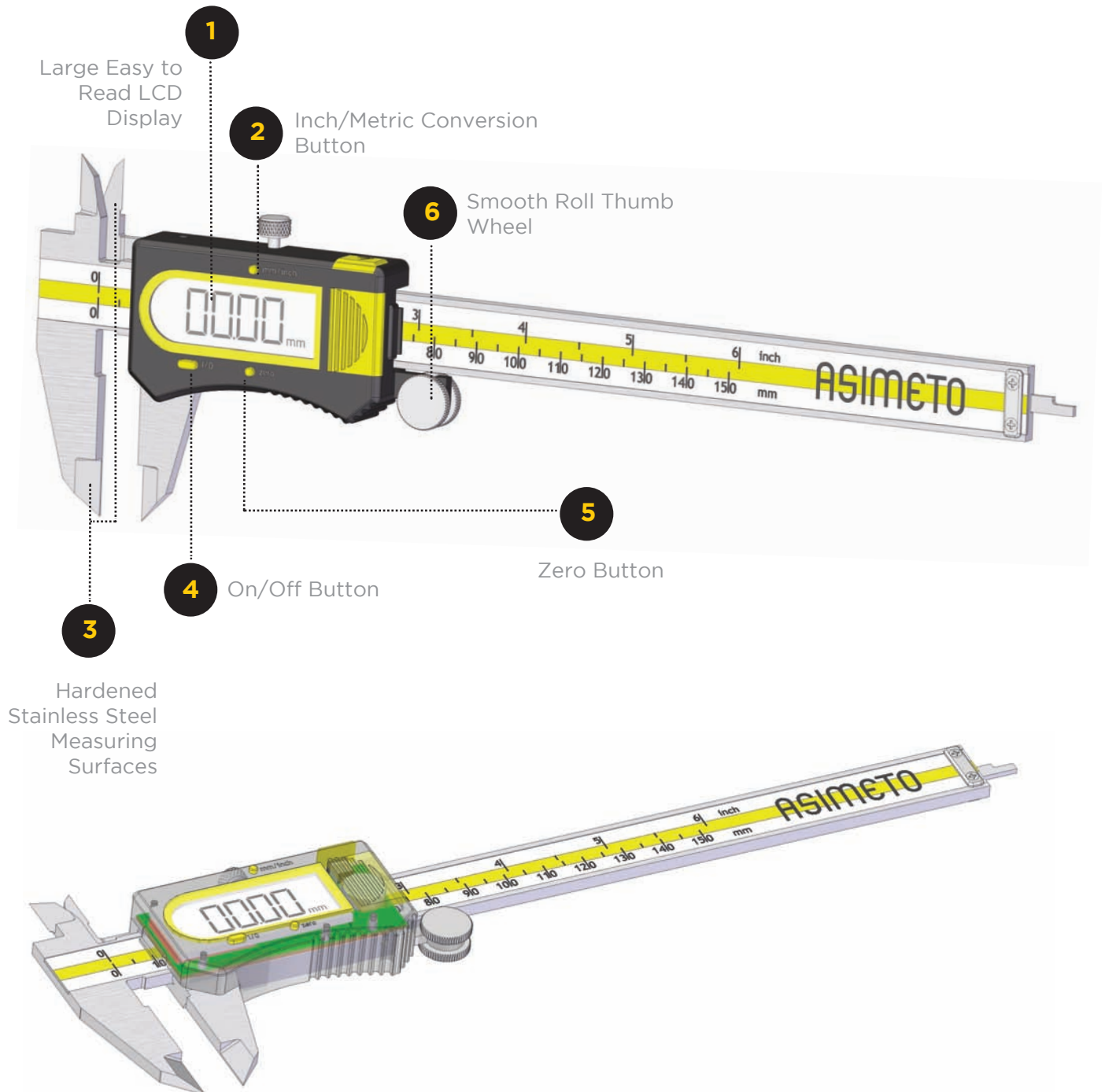
- 48 IP67 Digital Calipers_SYLVAC SYSTEM
- 48 Absolute Digital Calipers
- 49 Digital Calipers
- 50 IP67 Coolant Proof Digital Calipers
- 51 Heavy Duty Digital Calipers
- 52 Heavy Duty Digital Calipers_SYLVAC SYSTEM
- 53 Digital Universal Depth Gauge
- 54 Digital Caliper for Outside/Inside Grooves
- 55 Digital Tube Calipers
- 55 Digital Calipers With Adjustable Measuring Jaw
- 56 Digital Gear Tooth Calipers
- 57 Digital Thickness Gauges
- 58 Digital Gauges With Single Wide Measuring Face
- 58 Welding Fillet Gauges
- 59 Hook Type Digital Calipers
- 59 Mini-type 3-purpose Digital Calipers
- 60 Digital Scales
- 61 Dial Calipers
- 62 Vernier Calipers
- 64 Heavy Duty Vernier Calipers
- 67 Circle Vernier Calipers
- 67 Marking Calipers
- 68 Forester Calipers
- 69 Internal / External Caliper Gauges
- 71 Caliper Extender Attachments
- 72 Universal Caliper Accessory Kit
- 72 Centerline Gauges
- 73 Groove Measurement Caliper Jaws
- 74 Tool Kits

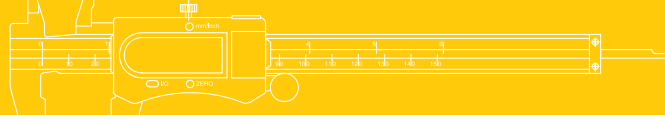




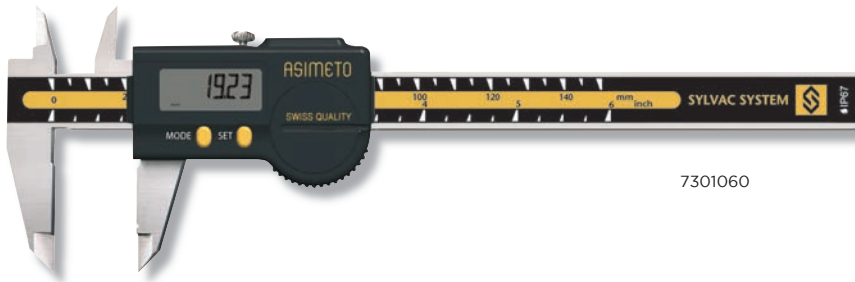
ASIMETO Digital Calipers

Features:





IP67 Digital Calipers _ SYLVAC SYSTEM 301 Series



7301060

FEATURES

- Resolution: .0005" / 0.01mm
- Conforms to the IP67 ratings
- Inch/Metric conversion
- Auto power on/off
- Sylvac system

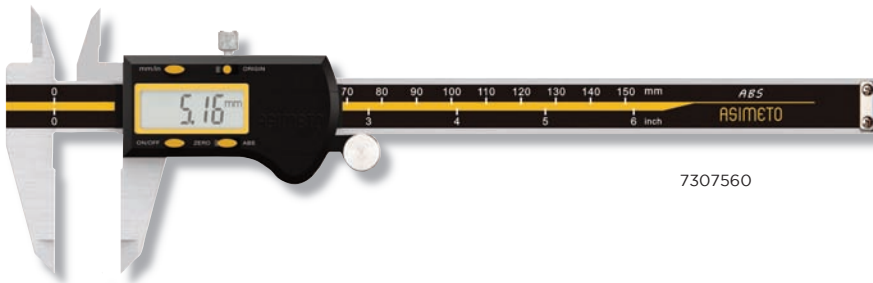
SPECIFICATIONS

Inch		Metric		Code No.	Remark
Range	Accuracy	Range	Accuracy		
0-6"	±.001"	0-150mm	±0.02mm	7301060	
0-6"	±.001"	0-150mm	±0.02mm	7301062	round depth bar Ø1.5mm
0-8"	±.0015"	0-200mm	±0.03mm	7301080	
0-12"	±.0015"	0-300mm	±0.03mm	7301120	

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

Absolute Digital Calipers 307 Series



7307560

FEATURES

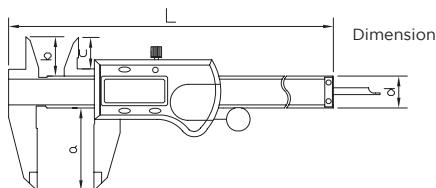
- Resolution: .0005" / 0.01mm
- The caliper will be ready for measurements as soon as it is switched on with the LCD screen displaying the actual slider position. There is no need to set the zero position each time the caliper is used as the origin setting is retained even when the caliper is switched off
- Inch/Metric conversion
- A thumb wheel is provided for easy use
- The ZERO/ABS changes the measurement mode from absolute to incremental. This is useful if a temporary origin is required to set the nominal value as zero for repetitive measuring task. By pressing the Zero/ABS button the display value will change to the original zero point (usually with the jaws in a closed position) and the measurement mode will be displayed

SPECIFICATIONS

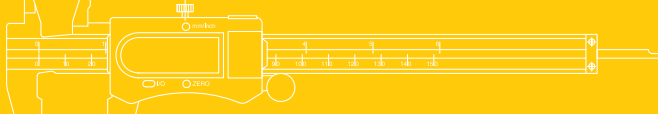
Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-6"	±.001"	0-150mm	±0.02mm	7307560
0-8"	±.0015"	0-200mm	±0.03mm	7307580
0-12"	±.0015"	0-300mm	±0.03mm	7307620

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate



Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	236	40	21	16.5	16
0-8"/0-200mm	286	50	24	19.5	16
0-12"/0-300mm	400	60	25	20.5	16



Digital Caliper

307 Series



7307XX1 Series
With Thumb Wheel



7307XX0 Series
Without Thumb Wheel



7307XX6 Series
Fractional Electronic Calipers



7307XX3 Series
Carbide tipped measuring faces

FEATURES

- Resolution: .0005" / 0.01mm / 1/128"
- Extra large LCD readout
- The origin position is retained through the on/off cycle
- Inch/Metric conversion
- Three models are optional

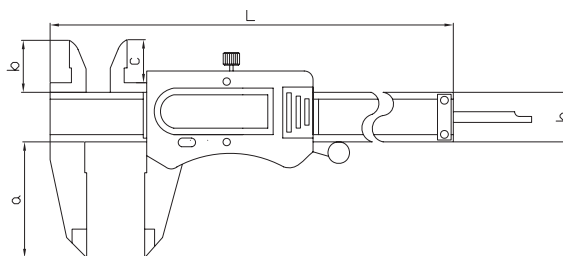
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

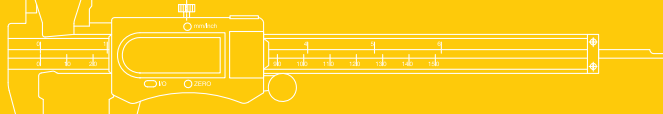
SPECIFICATIONS

Inch		Metric		With Thumb Wheel	W/O Thumb Wheel
Range	Accuracy	Range	Accuracy	Code No.	Code No.
General measuring surface					
0-6"	±.001"	0-150mm	±0.02mm	7307061	7307060
0-8"	±.0015"	0-200mm	±0.03mm	7307081	7307080
0-12"	±.0015"	0-300mm	±0.04mm	7307121	7307120
Carbide tipped measuring faces					
0-6"	±.001"	0-150mm	±0.02mm	7307063	-
0-8"	±.0015"	0-200mm	±0.03mm	7307083	-
0-12"	±.0015"	0-300mm	±0.04mm	7307123	-
Fractional Electronic Calipers					
0-6"	±.001"	0-150mm	±0.02mm	7307066	-
0-8"	±.0015"	0-200mm	±0.03mm	7307086	-

Dimension

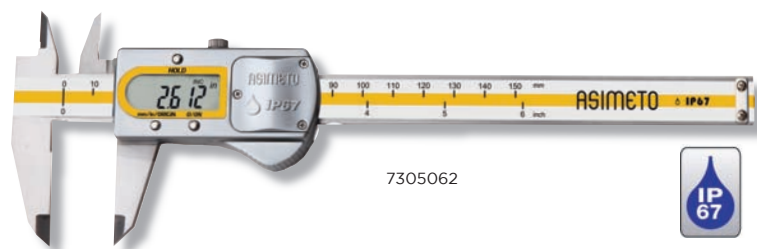


Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	236	40	21	16.5	16
0-8"/0-200mm	286	50	24	19.5	16
0-12"/0-300mm	400	60	25	20.5	17



IP67 Digital Calipers

305 Series



FEATURES

- Resolution: .0005" / 0.01mm
- Conforms to the IP67 ratings
- Absolute function, there is no need to set the zero
- Hold function for easy reading
- Absolute or incremental measuring modes
- Inch/Metric conversion
- Metal Housing, the design will allow the caliper to be used in normal workshop conditions and is resistant to coolant, water, dust or oil
- With Thumb Wheel
- Auto power on/off
- Power: 3V lithium battery

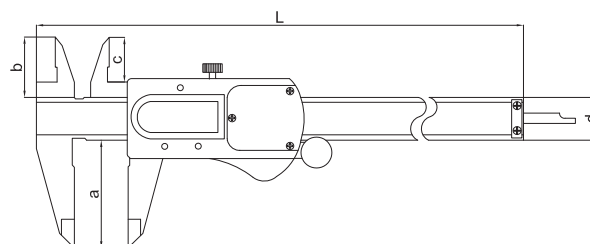
STANDARD ACCESSORIES

- Battery, Screwdriver
- Warranty card, Instruction manual, Calibration certificate

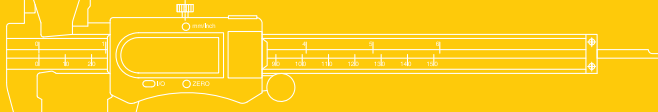
SPECIFICATIONS

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-6"	±0.001"	0-150mm	±0.02mm	7305062
0-8"	±0.0015"	0-200mm	±0.03mm	7305082
0-12"	±0.0015"	0-300mm	±0.04mm	7305122

Dimension

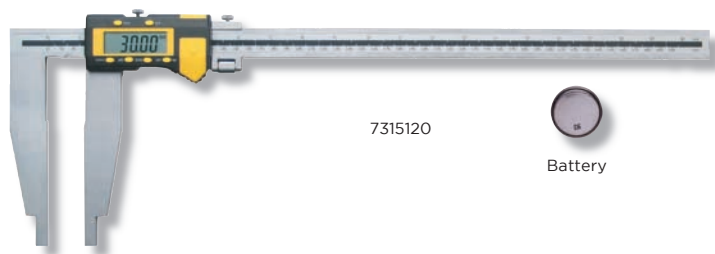


Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	236	40	21	16.5	16
0-8"/0-200mm	286	50	24	19.5	16
0-12"/0-300mm	400	60	25	20.5	16



Heavy Duty Digital Calipers

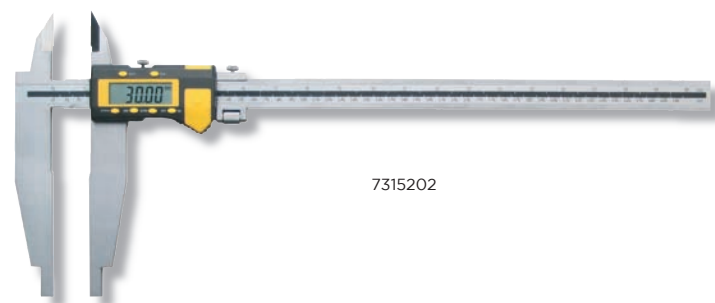
315 Series



7315120



Battery



7315202

FEATURES

- Resolution: .0005" / 0.01mm
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters
- Minimum internal diameter measurement capability of 20mm
- Inch/Metric conversion
- Six buttons
- Zero setting at any position
- Models are available with or without upper jaws

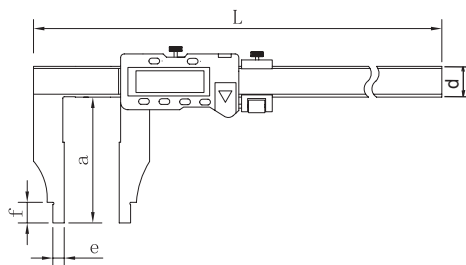
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

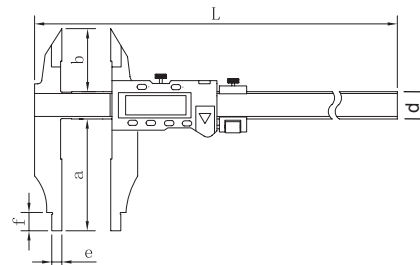
SPECIFICATIONS

Inch		Metric		Accuracy	Jaw Length	Code No.
Range	Resolution	Range	Resolution			
Without Upper Jaws						
0-12"	.0005"	0-300mm	0.01mm	±0.04mm	100mm	7315120
0-20"	.0005"	0-500mm	0.01mm	±0.05mm	150mm	7315200
0-32"	.0005"	0-800mm	0.01mm	±0.07mm	150mm	7315320
0-40"	.0005"	0-1000mm	0.01mm	±0.10mm	200mm	7315400
With Upper Jaws						
0-12"	.0005"	0-300mm	0.01mm	±0.04mm	100mm	7315122
0-20"	.0005"	0-500mm	0.01mm	±0.05mm	150mm	7315202
0-32"	.0005"	0-800mm	0.01mm	±0.07mm	150mm	7315322
0-40"	.0005"	0-1000mm	0.01mm	±0.10mm	200mm	7315402

Remark: Special Jaw Length apart from listed ones are available also

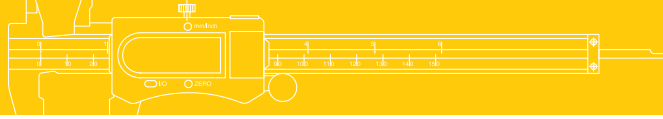


Dimension



Range	L	a	d	e	f
Inch/Metric	mm	mm	mm	mm	mm
0-12"/0-300mm	470	100	25	10	18
0-20"/0-500mm	680	150	25	10	18
0-32"/0-800mm	1030	150	32	10	25
0-40"/0-1000mm	1230	200	32	10	25

Range	L	a	b	d	e	f
Inch/Metric	mm	mm	mm	mm	mm	mm
0-12"/0-300	470	100	56	25	10	18
0-20"/0-500	680	150	56	25	10	25
0-32"/0-800	1030	150	67	32	10	25
0-40"/0-1000	1230	200	67	32	10	25

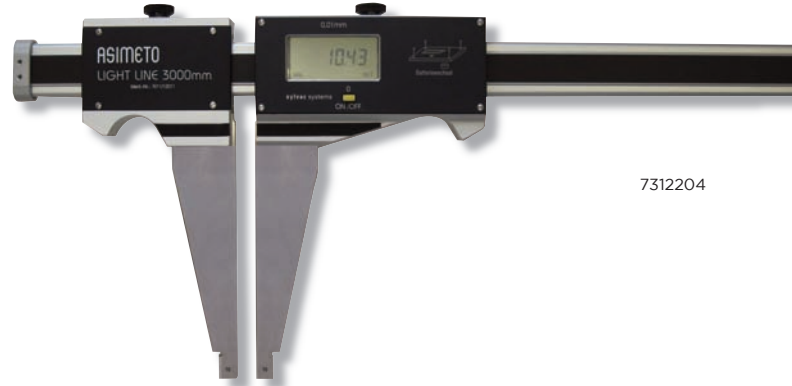


Heavy Duty Digital Calipers _SYLVAC SYSTEM

312 Series

FEATURES

- Resolution: .0005" / 0.01mm
- Lightweight design
- Optimum guidance and sliding characteristics due to double Vee guides.
- Stainless steel jaws, precision ground.
- Inch/Metric conversion



7312204

STANDARD ACCESSORIES

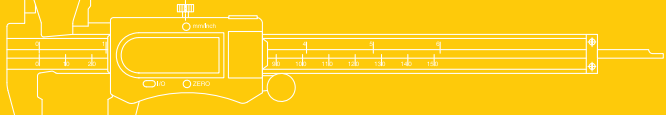
- Battery
- Warranty card, Instruction manual, Calibration certificate



7312120

SPECIFICATIONS

Inch	Metric						
Range	Range	Accuracy	Jaw Length	Internal Jaw	Power	Remark	Code No.
With Upper Jaws							
0-12"	0-300mm	±0.04mm	90mm	10mm	LR44 1.5V	-	7312120
0-20"	0-500mm	±0.05mm	90mm	10mm	LR44 1.5V	-	7312200
0-32"	0-800mm	±0.06mm	90mm	10mm	LR44 1.5V	-	7312320
Without Upper Jaws							
0-40"	0-1000mm	±0.06mm	150mm	20mm	CR2032 3V	Sylvac Electronics	7312402
0-60"	0-1500mm	±0.07mm	150mm	20mm	CR2032 3V	Sylvac Electronics	7312602
0-80"	0-2000mm	±0.08mm	150mm	20mm	CR2032 3V	Sylvac Electronics	7312802
0-120"	0-3000mm	±0.18mm	150mm	20mm	CR2032 3V	Sylvac Electronics	7312204



Digital Universal Depth Gauge

312 Series



FEATURES

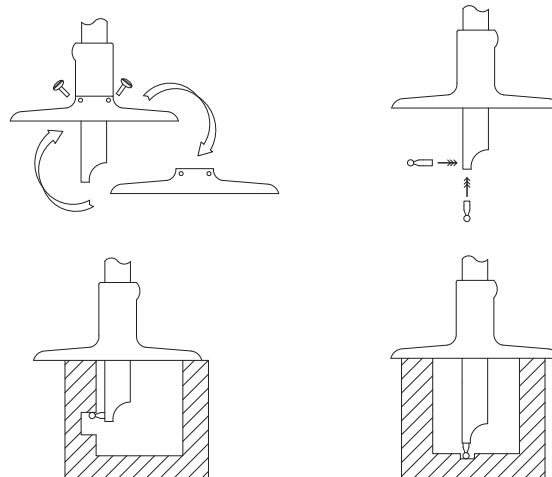
- Resolution: .0005" / 0.01mm
- Lightweight design
- Easy to read display. Optimum sliding characteristics are ensured by double Vee guides. Measurement head of hard-coated aluminium with two tapped holes at 90° (M2.5) to take the measuring tips.
- Inch/Metric conversion
- Power: LR44 1.5V Battery

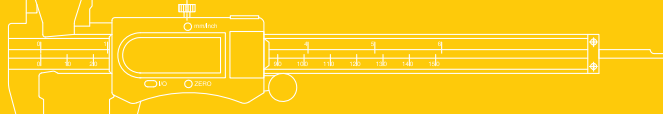
STANDARD ACCESSORIES

- Battery, Base (Each one of 150mm, 300mm, 450mm), Φ2mm Contact Point
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch	Metric		
Range	Range	Accuracy	Code No.
0-12"	0-300mm	±0.04mm	7312126
0-20"	0-500mm	±0.05mm	7312206
0-32"	0-800mm	±0.06mm	7312326





Digital Calipers for Outside/Inside Grooves

309 / 315 Series



FEATURES

- Resolution: .0005" / 0.01mm
- Series 309: Measures external grooves and recessed hub dimensions
- Series 315: Measures internal grooves, bores and other details
- Inch/Metric conversion
- Zero-setting at any position for incremental measurement

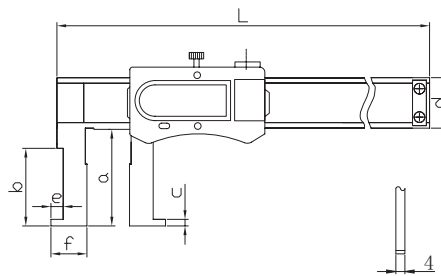
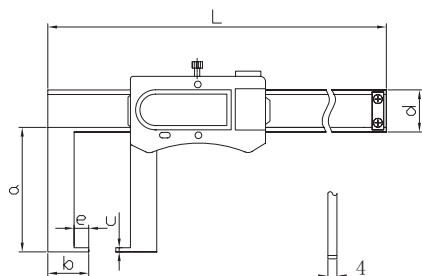
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

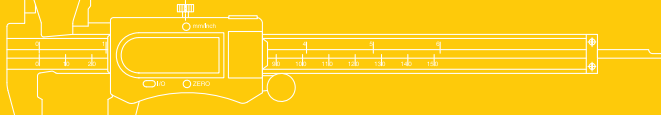
Inch			Metric			Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy	
Outside groove						
0-6"	.0005"	±.001"	0-150mm	0.01mm	±0.03mm	7309061
0-8"	.0005"	±.0015"	0-200mm	0.01mm	±0.04mm	7309081
0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	7309121
Inside groove						
0.8-6"	.0005"	±.001"	20-150mm	0.01mm	±0.04mm	7315067
1.4-6"	.0005"	±.0015"	35-150mm	0.01mm	±0.04mm	7315567
1.6-8"	.0005"	±.0015"	40-200mm	0.01mm	±0.04mm	7315087
2-12"	.0005"	±.002"	50-300mm	0.01mm	±0.05mm	7315127

Dimension



Range	L	a	b	c	d	e
Inch/Metric	mm	mm	mm	mm	mm	mm
0-6"/0-150mm	250	40	10	1	16	5
0-8"/0-200mm	310	50	19	1	16	7
0-12"/0-300mm	400	60	21	2	20	10

Range	L	a	b	c	d	e	f
Inch/Metric	mm	mm	mm	mm	mm	mm	mm
.8-6"/20-150mm	250	46	40	1	16	5	10
1.4-6"/35-150mm	250	66	60	1.5	16	6	17.5
1.6-8"/40-200mm	310	76	70	1.5	16	7	20
2-12"/50-300mm	410	86	80	1.5	17	8	25



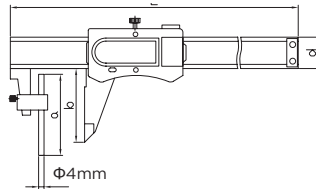
Digital Tube Calipers

316 Series



7316060

Dimension



FEATURES

- Resolution: .0005" / 0.01mm
- The design incorporates a cylindrical stationary jaw on the beam with a normal jaw on the slider and is used for the measurement of tubular wall thicknesses
- Inch/Metric conversion
- Zero-setting at any position

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		L	a	b	d	Code No.
Range	Accuracy	Range	Accuracy	mm	mm	mm	mm	
0-6"	±.001"	0-150mm	±0.03mm	250	46	40	16	7316060
0-8"	±.0015"	0-200mm	±0.03mm	300	50	50	16	7316080
0-12"	±.0015"	0-300mm	±0.04mm	400	66	60	17	7316120

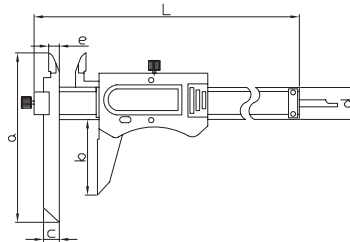
Digital Caliper With Adjustable Measuring Jaw

317 Series



7317060

Dimension



FEATURES

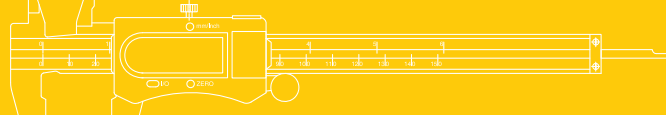
- Resolution: .0005" / 0.01mm
- The stationary jaw on the beam is designed with vertical movement for the purpose of measuring various steps of different heights
- Inch/Metric conversion
- Zero-setting at any position

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		L	a	b	c	d	e	Code No.
Range	Accuracy	Range	Accuracy	mm	mm	mm	mm	mm	mm	
0-6"	±.0015"	0-150mm	±0.04mm	239	110	40	10	16	7	7317060
0-8"	±.0015"	0-200mm	±0.04mm	289	120	50	10	16	7	7317080
0-12"	±.0020"	0-300mm	±0.05mm	389	130	60	10	16	7	7317120



Digital Gear Tooth Calipers

328 Series

FEATURES

- Resolution: .0005" / 0.01mm
- Measures the chordal gear tooth thickness at the chordal addendum (pitch circle)
- Inch/Metric conversion
- Zero-setting at any position

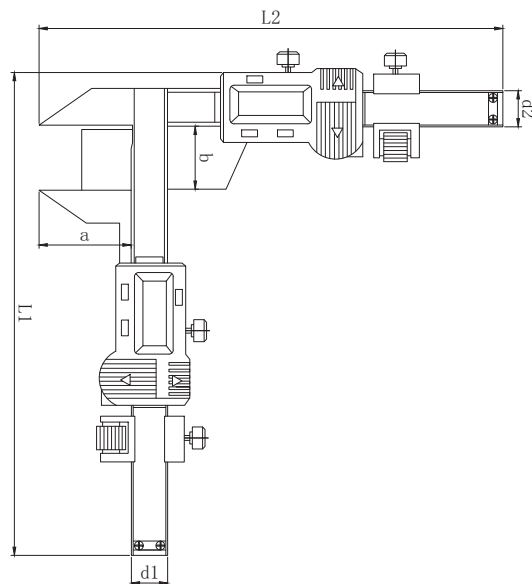
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate



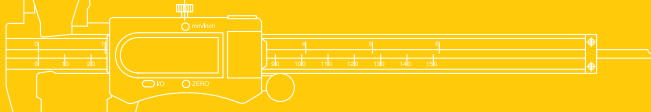
7328060

Dimension



SPECIFICATIONS

Inch	Metric	Accuracy	L1	L2	a	b	d1	d2	Code No.
Range	Range	mm	mm	mm	mm	mm	mm	mm	
M0.04-1"	M1-25	±0.03	156	156.5	30.5	21	13	13	7328060
M0.2-2"	M5-50	±0.03	210	185.5	50.5	50.5	13	13	7328062



Digital Thickness Gauges

325 Series



7325320



7325300



7325500

FEATURES

- Resolution: .0005" / 0.01mm
- Inch/Metric conversion
- For measuring the thickness of paper, film, wire, sheet metal, jewelry, leather and similar materials
- Light weight, easy to operate

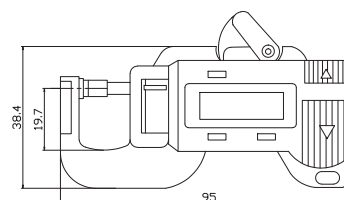
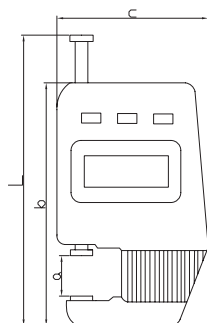
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

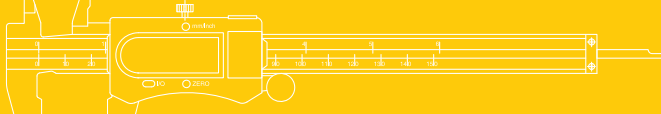
SPECIFICATIONS

Inch			Metric			Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy	
Horizontal						
0-.5"	.0005"	±.0015"	0-12mm	0.01mm	±0.03mm	7325300
0-1"	.0005"	±.0015"	0-25mm	0.01mm	±0.04mm	7325320
Vertical						
0-.6"	.0005"	±.0015"	0-15mm	0.01mm	±0.03mm	7325500
0-1"	.0005"	±.0015"	0-25mm	0.01mm	±0.04mm	7325520

Dimension



Range	L	a	b	c
Inch/Metric	mm	mm	mm	mm
0-0.6"/0-15mm	102.6	15.5	83.6	51
0-1"/0-25mm	132.8	26	104	61



Digital Gauge With Single Wide Measuring Face

325 Series



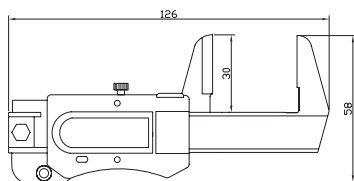
FEATURES

- Resolution: .0005" / 0.01mm
- Zero-setting at any position
- Easy operation and normally used for the measurement of small work pieces
- Inch/Metric conversion

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

Dimension

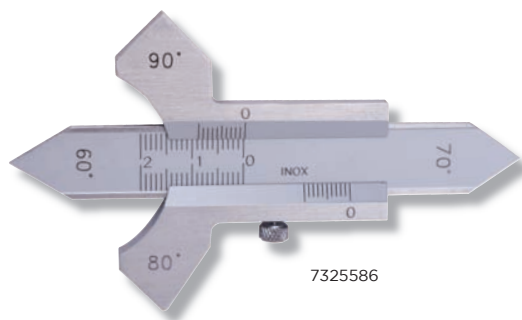


SPECIFICATIONS

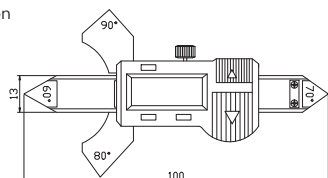
Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-1.2"	.0015"	0-30mm	±0.03mm	7325360

Welding Fillet Gauges

325 Series



Dimension



FEATURES

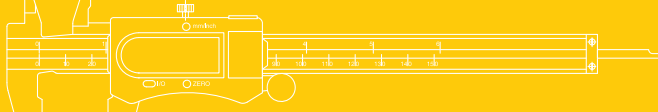
- Resolution:
 - Digital models: .0005" / 0.01mm
 - Mechanical Models: 0.1mm
- Measures the thickness of a weld along the intersecting vector of two right angle welded objects
- Inch/Metric conversion

STANDARD ACCESSORIES

- Battery (Digital models)
- Warranty card, Instruction manual

SPECIFICATIONS

Inch		Metric		
Range	Accuracy	Range	Accuracy	Code No.
Digital models				
0-.5"	±.0015"	0-12.5mm	±0.03mm	7325056
0-.8"	±.0015"	0-20mm	±0.03mm	7325086
Mechanical models				
-	-	0-20mm	±0.3mm	7325586



Hook Type Digital Calipers

325 Series

FEATURES

- Resolution: .0005" / 0.01mm
- Measures the inside groove width and position of groove
- Inch/Metric conversion
- Zero-setting at any position



7325050

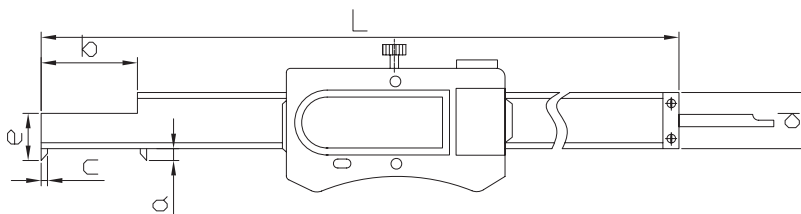
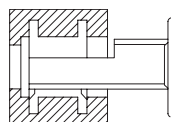
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual
- Calibration certificate

SPECIFICATIONS

Inch			Metric			Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy	
.12-5"	.0005"	±0.01"	3-125mm	0.01mm	±0.03mm	7325050
.12-8"	.0005"	±0.01"	3-200mm	0.01mm	±0.03mm	7325080
.16-12"	.0005"	±0.015"	4-300mm	0.01mm	±0.04mm	7325120

Dimension



Range	L	a	b	c	d	e
Inch/Metric	mm	mm	mm	mm	mm	mm
.12-6"/3-125mm	235	4	24	3	12.5	12
.12-8"/3-200mm	310	4	24	3	12.5	12
.16-12"/4-300mm	466	5	86	4	15	14

Mini-type 3-purpose Digital Calipers

305 Series

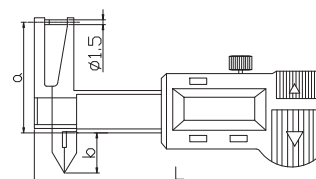
FEATURES

- Resolution: .0005" / 0.01mm
- For measuring the dimension of small workpiece
- Inch/Metric conversion
- Zero-setting at any position



7305400

Dimension

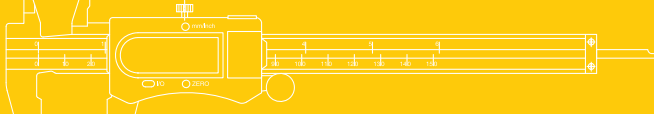


STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual,
- Calibration certificate

SPECIFICATIONS

Inch			Metric			L	a	b	Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy				
0-.6"	.0005"	±0.015"	0-15mm	0.01mm	±0.03mm	77mm	33.2mm	12.5mm	7305400
0-1"	.0005"	±0.015"	0-25mm	0.01mm	±0.03mm	87mm	33.2mm	12.5mm	7305420



Digital Scales

326 Series

FEATURES

- Resolution: .0005" / 0.01mm
- Inch/Metric conversion
- The displayed readings are available in either absolute (measurement to the zero position) or to an incremental (temporary) zero set position at any position along the scale. Either measurement mode can be selected by pressing the ABS/INC button
- Units are supplied with the necessary mounting brackets required for most popular installations
- Models are available with horizontal or vertical numeric displays



7326065

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual

SPECIFICATIONS

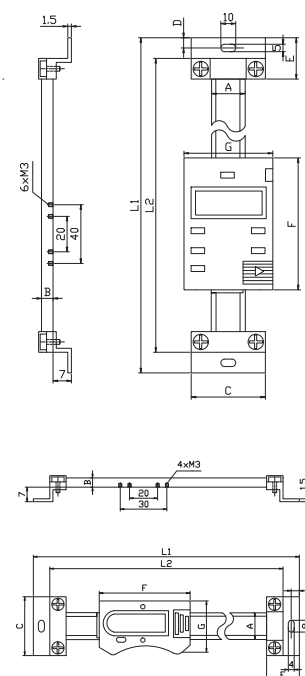
Inch		Metric		Horizontal	Vertical
Range	Accuracy	Range	Accuracy	Code No.	Code No.
4"	.001"	100mm	±0.02mm	7326045	7326040
6"	.0015"	150mm	±0.03mm	7326065	7326060
8"	.0015"	200mm	±0.03mm	7326085	7326080
12"	.0015"	300mm	±0.04mm	7326125	7326120
18"	.002"	450mm	±0.05mm	7326185	7326180
24"	.003"	600mm	±0.08mm	7326245	7326240
32"	.004"	800mm	±0.10mm	7326325	7326320
40"	.004"	1000mm	±0.10mm	7326405	7326400

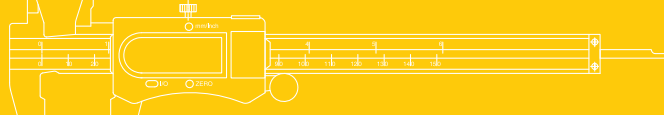
Range	A	B	C	D	E	F	G	L1	L2
	mm	mm	mm	mm	mm	mm	mm	mm	mm
Horizontal									
4"/100mm	16	4	36	6	24	58	34	209	185
6"/150mm	16	4	36	6	24	58	34	259	235
8"/200mm	16	4	36	6	24	58	34	310	286
12"/300mm	16	4	36	6	24	58	34	444	420
18"/450mm	16	4	36	6	24	58	34	-	-
24"/600mm	24	5.5	45	8	32	92	40	782	750
32"/800mm	24	5.5	45	8	32	92	40	980	950
40"/1000mm	31	10.5	60	10	40	124.5	54	1240	1200
Vertical									
4"/100mm	20	4	40	6	24	70	40	244	220
6"/150mm	20	4	40	6	24	70	40	294	270
8"/200mm	20	4	40	6	24	70	40	344	320
12"/300mm	20	4	40	6	24	70	40	444	420
18"/450mm	20	4	40	6	24	70	40	-	-
24"/600mm	24	5.5	45	8	32	92	40	782	750
32"/800mm	24	5.5	45	8	32	92	40	982	950
40"/1000mm	31	10.5	60	10	40	124.5	54	1240	1200



7326180

Dimension





Dial Calipers

303 / 304 / 308 Series

FEATURES

- Graduation:
Inch: .001"
Metric: 0.01mm or 0.02mm
- Stainless steel construction with all measuring surfaces surface-hardened
- Preloaded dual pinions eliminate backlash and provide better repeatability
- Thumb roller included

Aluminum models

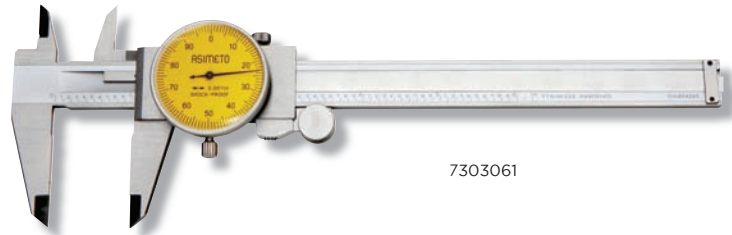
- Sturdy aluminum ergonomic diecast housing can be used without damage in the harshest of manufacturing environments, including situations with hot steel chips
- The dual pinion mechanism offers extra smooth operation

Carbide tipped measuring faces models

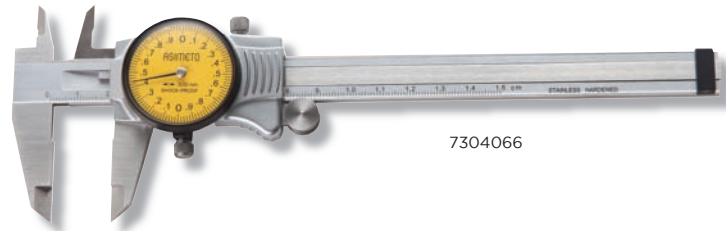
- Both ID & OD measuring surfaces are carbide tipped to increase caliper life by preventing wear

STANDARD ACCESSORIES

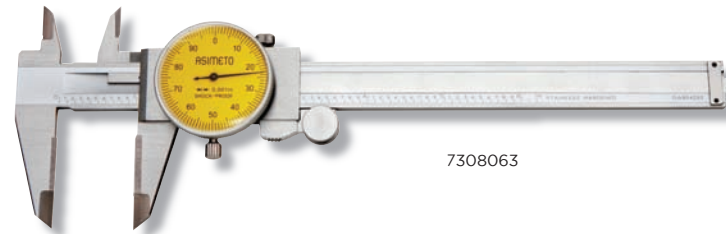
- Warranty card, Instruction manual,
Calibration certificate



7303061



7304066

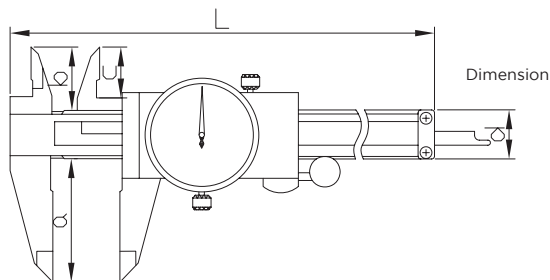


7308063

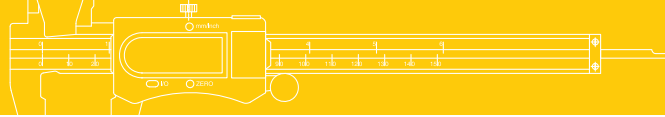
SPECIFICATIONS

Inch		
Range	Accuracy	Code No.
Standard models		
0-6"	±.001"	7303061
0-8"	±.0015"	7303081
0-12"	±.0015"	7303121
Aluminum dial housing models		
0-6"	±.001"	7304065
0-8"	±.0015"	7304085
0-12"	±.0015"	7304125
Carbide Tip models		
0-6"	±.001"	7308063
0-8"	±.0015"	7308083
0-12"	±.0015"	7308123

Metric		Grad.: 0.01mm	Grad.: 0.02mm
Range	Accuracy	Code No.	Code No.
Standard models			
0-150mm	±0.02mm	7303060	7303062
0-200mm	±0.03mm	7303080	7303082
0-300mm	±0.04mm	7303120	7303122
Aluminum dial housing models			
0-150mm	±0.02mm	7304064	7304066
0-200mm	±0.03mm	7304084	7304086
0-300mm	±0.04mm	7304124	7304126
Carbide Tip models			
0-150mm	±0.02mm	7308062	-
0-200mm	±0.03mm	7308082	-
0-300mm	±0.04mm	7308122	-



Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	234	40	21	16.5	16
0-8"/0-200mm	290	50	23.5	19	17
0-12"/0-300mm	393	64	24.5	20	17



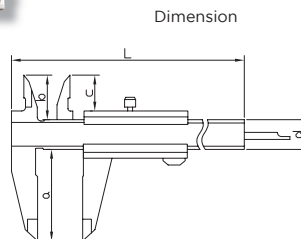
Vernier Calipers

341 / 351 Series

Plain



7341060



Dimension

FEATURES

- Graduation:
Inch: .001"
Metric: 0.02mm or 0.05mm
- Various models available with an assortment of dual scales
- Measuring surfaces allow for the measurement of external diameters, internal diameters, depths and steps
- The upper and lower scales on the slider are angled to reduce parallax error
- Stainless steel with surface hardened measuring faces
- Models are available with the slider operation in either plain, thumb clamp, fine adjustment

STANDARD ACCESSORIES

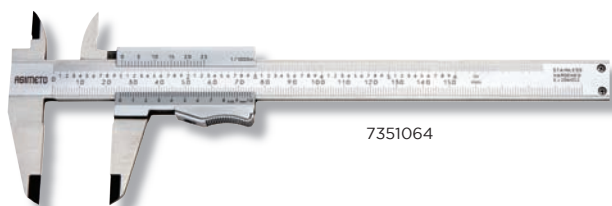
- Warranty card, Instruction manual, Calibration certificate

Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	235	40	21	16.5	16
0-8"/0-200mm	297	50	23.5	19	16
0-12"/0-300mm	410	64	27	22	20

SPECIFICATIONS

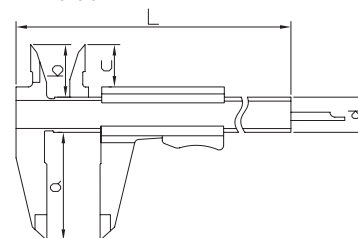
Range	Graduation	Range	Graduation	Accuracy	Note	Code No.
Lower	Lower	Upper	Upper			
0-6"	.001"	0-6"	1/128"	±.001"	upper lock	7341061
0-150mm	0.05mm	0-6"	1/128"	±0.05mm	upper lock	7341060
0-150mm	0.05mm	0-6"	1/128"	±0.05mm	lower locking screw	7341660
0-200mm	0.05mm	0-8"	1/128"	±0.05mm	upper lock	7341080
0-300mm	0.05mm	0-12"	1/128"	±0.05mm	upper lock	7341120
0-150mm	0.05mm	0-6"	1/128"	±0.05mm	with round depth bar Φ 1.8mm	7341062
0-150mm	0.02mm	0-6"	0.001"	±0.02mm	upper lock	7341064
0-200mm	0.02mm	0-8"	0.001"	±0.03mm	upper lock	7341084
0-300mm	0.02mm	0-12"	0.001"	±0.04mm	upper lock	7341124

Thumb Clamp



7351064

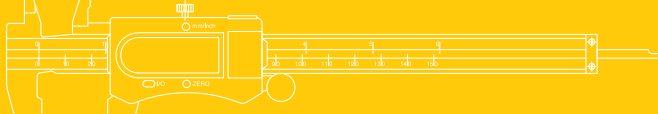
Dimension



Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	228	40	21	16.5	16
0-8"/0-200mm	290	50	23.5	19	17

SPECIFICATIONS

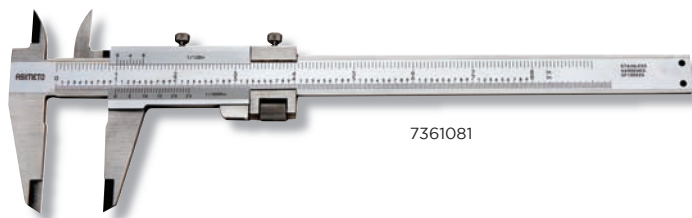
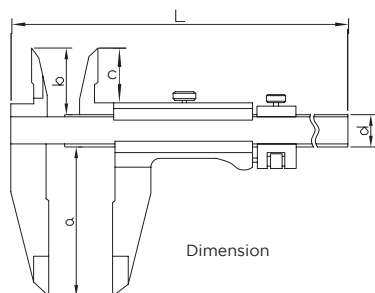
Range	Graduation	Range	Graduation	Accuracy	Note	Code No.
Lower	Lower	Upper	Upper			
0-6"	.001"	0-6"	1/128"	±.001"	-	7351061
0-8"	.001"	0-8"	1/128"	±.0015"	-	7351081
0-150mm	0.05mm	0-6"	1/128"	±0.05mm	-	7351060
0-200mm	0.05mm	0-8"	1/128"	±0.05mm	-	7351080
0-150mm	0.05mm	0-6"	1/128"	±0.05mm	with round depth bar Φ 1.8mm	7351062
0-150mm	0.02mm	0-6"	0.001"	±0.02mm	-	7351064
0-200mm	0.02mm	0-8"	0.001"	±0.03mm	-	7351084



Vernier Calipers

361 / 302 Series

Fine adjustment



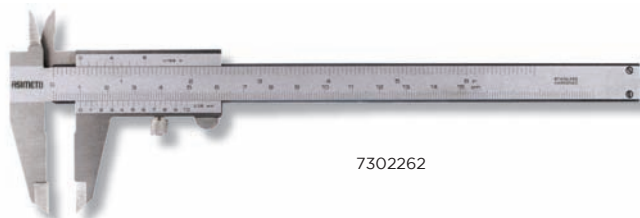
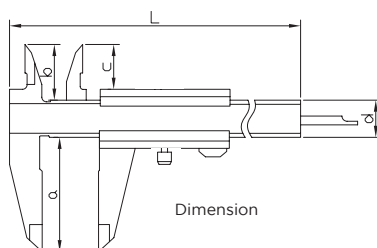
7361081

Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-5.2"/0-130mm	228	40	21	16.5	16
0-7.2"/0-180mm	290	50	23.5	19	17
0-11.2"/0-280mm	410	64	27.5	22	20

SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Note	Code No.
Lower	Lower	Upper	Upper			
Inch						
0-5"	.001"	0-5"	1/128"	±.001"	upper lock	7361051
0-7"	.001"	0-7"	1/128"	±.0015"	upper lock	7361071
0-11"	.001"	0-11"	1/128"	±.0015"	upper lock	7361111
Metric						
0-130mm	0.02mm	0-5"	0.001"	±0.02mm	upper lock	7361056
0-180mm	0.02mm	0-7"	0.001"	±0.03mm	upper lock	7361076
0-280mm	0.02mm	0-11"	0.001"	±0.04mm	upper lock	7361116

Modified "V" type beam



7302262

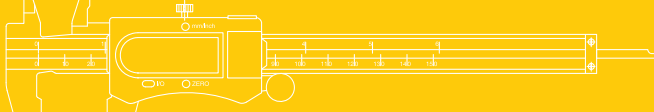
Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	235	40	21	16.5	16

FEATURES

- Designed with increased repeatability by incorporating a "V" slider to beam technology

SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Note	Code No.
Lower	Lower	Upper	Upper			
0-150mm	0-6"	0.05mm	1/128"	±0.05mm	lower locking screw	7302260
0-150mm	0-6"	0.02mm	.001"	±0.02mm	lower locking screw	7302262



Long Jaw Vernier Calipers

311 Series



7311204

FEATURES

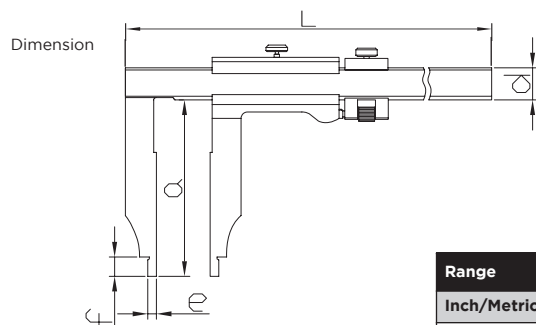
- Graduation:
Inch: .001"
Metric: 0.02mm or 0.05mm
- Stainless steel
- Models available with an assortment of Metric/Inch scale configurations
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters
- Minimum internal diameter measurement capability of:
10mm for 300mm/12" range
20mm for over 450mm/18" range

STANDARD ACCESSORIES

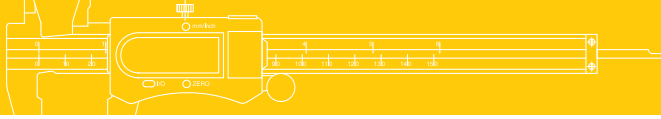
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Jaw Length	Code No.
Lower	Lower	Upper	Upper			
0-12"	.001"	0-300mm	0.02mm	±.0015"	90mm	7311123
0-20"	.001"	0-500mm	0.02mm	±.0020"	200mm	7311203
0-30"	.001"	0-750mm	0.02mm	±.0020"	200mm	7311303
0-40"	.001"	0-1000mm	0.02mm	±.0030"	200mm	7311403
0-300mm	0.02mm	0-12"	.001"	±0.04mm	90mm	7311124
0-500mm	0.02mm	0-20"	.001"	±0.05mm	200mm	7311204
0-750mm	0.02mm	0-30"	.001"	±0.07mm	200mm	7311304
0-1000mm	0.02mm	0-40"	.001"	±0.07mm	200mm	7311404
0-300mm	0.05mm	0-12"	1/128"	±0.05mm	90mm	7311126
0-500mm	0.05mm	0-20"	1/128"	±0.08mm	200mm	7311206
0-750mm	0.05mm	0-30"	1/128"	±0.10mm	200mm	7311306
0-1000mm	0.05mm	0-40"	1/128"	±0.10mm	200mm	7311406

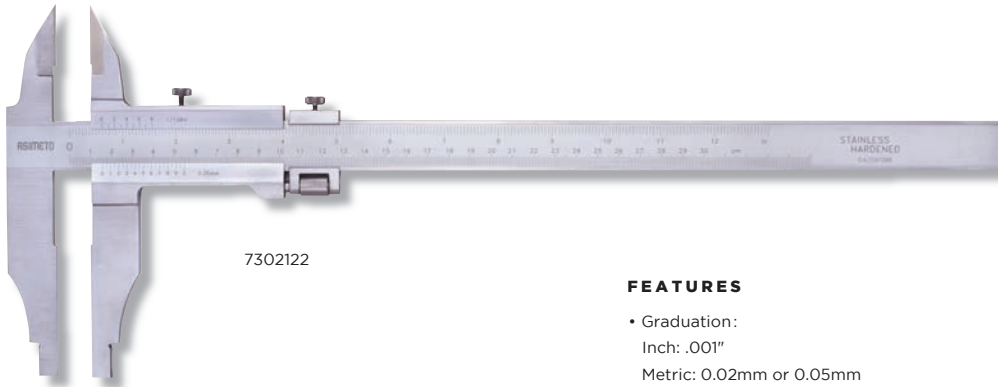


Range	L	a	d	e	f
Inch/Metric	mm	mm	mm	mm	mm
0-12" / 0-300mm	450	90	20	5	12
0-20" / 0-500mm	735	200	30	10	23
0-30" / 0-750mm	985	200	32	10	25
0-40" / 0-1000mm	1235	200	32	10	25



Heavy Duty Vernier Caliper With Upper Knife-edge

302 Series



7302122

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

FEATURES

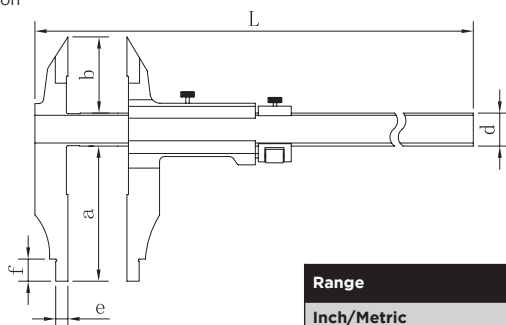
- Graduation:
Inch: .001"
Metric: 0.02mm or 0.05mm
- With upper knife-edge for external diameter measurement
- Designed with fine adjustment to allow precise movement of the slider
- Stainless steel
- Models available with an assortment of Metric/Inch scale configurations
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters with minimum internal measuring capability of 20mm

SPECIFICATIONS

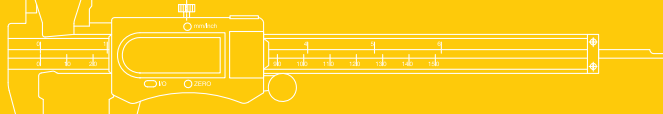
Range	Graduation	Range	Graduation	Accuracy	Jaw Length	Code No.
Lower	Lower	Upper	Upper			
0-12"	.001"	0-300mm	0.02mm	±.0015"	56mm+100mm	7302121
0-20"	.001"	0-500mm	0.02mm	±.0020"	67mm+150mm	7302201
0-32"	.001"	0-800mm	0.02mm	±.0020"	67mm+150mm	7302321
0-40"	.001"	0-1000mm	0.02mm	±.0030"	67mm+150mm	7302401
0-300mm	0.02mm	0-12"	.001"	±0.04mm	56mm+100mm	7302120
0-500mm	0.02mm	0-20"	.001"	±0.05mm	67mm+150mm	7302200
0-800mm	0.02mm	0-32"	.001"	±0.07mm	67mm+150mm	7302320
0-1000mm	0.02mm	0-40"	.001"	±0.07mm	67mm+150mm	7302400
0-300mm	0.05mm	0-12"	1/128"	±0.08mm	56mm+100mm	7302122
0-500mm	0.05mm	0-20"	1/128"	±0.08mm	67mm+150mm	7302202
0-800mm	0.05mm	0-32"	1/128"	±0.10mm	67mm+150mm	7302322
0-1000mm	0.05mm	0-40"	1/128"	±0.10mm	67mm+150mm	7302402

Remark: Special Jaw Length apart from listed ones are available also

Dimension

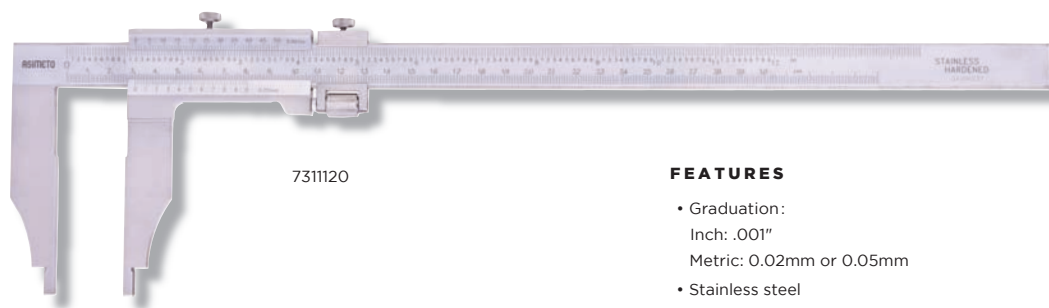


Range	L	a	b	d	e	f
Inch/Metric	mm	mm	mm	mm	mm	mm
0-12"/0-300mm	470	100	56	25	10	18
0-20"/0-500mm	735	150	67	32	10	25
0-32"/0-800mm	1035	150	67	32	10	25



Heavy Duty Vernier Calipers

311 Series



7311120

FEATURES

- Graduation:
Inch: .001"
Metric: 0.02mm or 0.05mm
- Stainless steel
- Models available with an assortment of Metric/Inch scale configurations
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters
- Minimum internal diameter measurement capability of:
10mm for 300mm/12" range
20mm for over 450mm/18" range

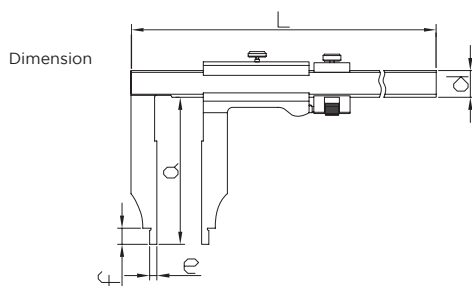
STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

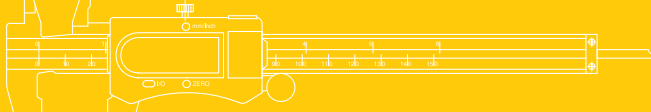
SPECIFICATIONS

Range	Graduation	Range	Graduation			
Lower	Lower	Upper	Upper	Accuracy	Jaw Length	Code No.
0-12"	.001"	0-300mm	0.02mm	±.0015"	75mm	7311121
0-18"	.001"	0-450mm	0.02mm	±.0020"	100mm	7311181
0-24"	.001"	0-600mm	0.02mm	±.0020"	100mm	7311241
0-32"	.001"	0-800mm	0.02mm	±.0020"	150mm	7311321
0-40"	.001"	0-1000mm	0.02mm	±.0030"	150mm	7311401
0-60"	.001"	0-1500mm	0.02mm	±.0040"	200mm	7311601
0-80"	.001"	0-2000mm	0.02mm	±.0050"	200mm	7311801
0-300mm	0.02mm	0-12"	.001"	±0.04mm	75mm	7311120
0-450mm	0.02mm	0-18"	.001"	±0.05mm	100mm	7311180
0-600mm	0.02mm	0-24"	.001"	±0.05mm	100mm	7311240
0-800mm	0.02mm	0-32"	.001"	±0.05mm	150mm	7311320
0-1000mm	0.02mm	0-40"	.001"	±0.07mm	150mm	7311400
0-1500mm	0.02mm	0-60"	.001"	±0.11mm	200mm	7311600
0-2000mm	0.02mm	0-80"	.001"	±0.14mm	200mm	7311800
0-300mm	0.05mm	0-12"	1/128"	±0.05mm	75mm	7311122
0-450mm	0.05mm	0-18"	1/128"	±0.08mm	100mm	7311182
0-600mm	0.05mm	0-24"	1/128"	±0.10mm	100mm	7311242
0-800mm	0.05mm	0-32"	1/128"	±0.10mm	150mm	7311322
0-1000mm	0.05mm	0-40"	1/128"	±0.10mm	150mm	7311402
0-1500mm	0.05mm	0-60"	1/128"	±0.15mm	200mm	7311602
0-2000mm	0.05mm	0-80"	1/128"	±0.20mm	200mm	7311802

Remark: Special Jaw Length apart from listed ones are available also



Range	L	a	d	e	f
Inch/Metric	mm	mm	mm	mm	mm
0-12" / 0-300mm	450	75	20	5	12
0-18" / 0-450mm	685	100	25	10	25
0-24" / 0-600mm	835	100	32	10	25
0-32" / 0-800mm	1035	150	32	10	25
0-40" / 0-1000mm	1235	150	32	10	25
0-60" / 0-1500mm	1820	200	42	10	25
0-80" / 0-2000mm	2270	200	42	10	25



Circle Vernier Calipers

322 Series

FEATURES

- Graduation: 0.1mm
- With one-piece slider
- Made with stainless steel, hardened measuring face

STANDARD ACCESSORIES

- Warranty card

SPECIFICATIONS

Range	Accuracy	Jaw length	Code No.
0-150mm	±0.2mm	40mm	7322710
0-200mm	±0.2mm	40mm	7322720
0-250mm	±0.3mm	40mm	7322730
0-300mm	±0.3mm	40mm	7322740



T Form Marking Calipers

FEATURES

- Graduation: 0.05mm
- Made with stainless steel

STANDARD ACCESSORIES

- Warranty card

SPECIFICATIONS

Range	Accuracy	Base Length	Code No.
0-160mm	±0.1mm	135mm	7322510
0-250mm	±0.1mm	135mm	7322520
0-300mm	±0.15mm	160mm	7322530



Marking Calipers

FEATURES

- Graduation: 1/128" / 0.1mm
- Made with stainless steel

STANDARD ACCESSORIES

- Warranty card

SPECIFICATIONS

Range		Range		Code No.
Upper	Accuracy	Lower	Accuracy	
0-8"	±.02"	0-200mm	±0.2mm	7322610
0-16"	±.02"	0-400mm	±0.3mm	7322620



Measuring Gauges

FEATURES

- Graduation: 0.1mm
- Made with stainless steel

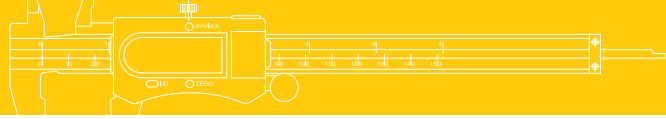
STANDARD ACCESSORIES

- Warranty card

SPECIFICATIONS

Range	Accuracy	Code No.
0-200mm	±0.2mm	7322810
0-250mm	±0.3mm	7322820
0-300mm	±0.3mm	7322830





Forester Calipers

322 Series



FEATURES

- Made of aluminium, Plastic handle

SPECIFICATIONS

Range	Graduation	Jaw Length	Code No.
0-500mm	5mm	255mm	7322910
0-800mm	5mm	410mm	7322920
0-1000mm	5mm	410mm	7322930

Internal Dial Caliper Gauges

403 Series

FEATURES

- Graduation: .001" / 0.025mm.
- For checking internal bores, recess diameters, etc.
- Highly recommended for quick ID comparisons.
- Gauge has a movement of 1" (25 mm).
- Can be set with a micrometer or ring gauge.
- Bezel rotates for zero setting.
- Button for closing arms. Arms automatically open when button is released..
- Unit is spring-loaded and makes point contact at constant measuring pressure.
- Arms have 0.06" diameter measuring tips.
- Revolution counter.
- Leg length 3-1/4".

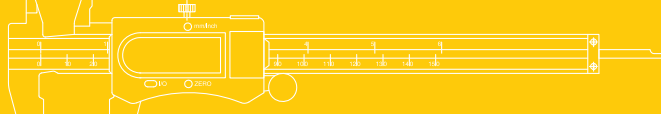
STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate

SPECIFICATIONS

Inch		Metric		Inch	
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0.375 - 1.375"	±0.002"	10-35mm	±0.05mm	7403311	7403310
0.750 - 1.750"	±0.002"	20-45mm	±0.05mm	7403321	7403320
1.125 - 2.125"	±0.002"	30-55mm	±0.05mm	7403331	7403330
1.500 - 2.500"	±0.002"	40-65mm	±0.05mm	7403341	7403340
1.875 - 2.875"	±0.003"	50-75mm	±0.08mm	7403351	7403350
2.250 - 3.250"	±0.003"	60-85mm	±0.08mm	7403361	7403360
2.875 - 3.875"	±0.003"	75-100mm	±0.08mm	7403371	7403370
3.250 - 4.250"	±0.004"	85-110mm	±0.08mm	7403381	7403380
-	-	95-120mm	±0.1mm	-	7403390
-	-	100-125mm	±0.1mm	-	7403400





Internal Caliper Gauges

400 / 403 Series



7400140



7403220

FEATURES

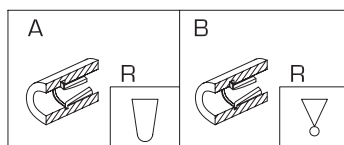
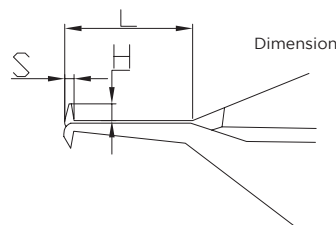
- Resolution:
Digital models: .0002" / 0.005mm; Dial models: .0005" / 0.01mm
- Designed to measure internal grooves, and other intricate detailed internal characteristics
- This measuring instrument provides comparison readings and must be set to the nominal dimension using either micrometer or setting rings
- The digital model allows the display housing to be rotated $\pm 170^\circ$

STANDARD ACCESSORIES

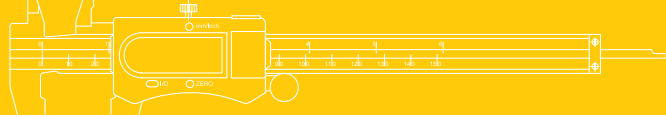
- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

				Dial models		Digital models	
Range	Arm Length	Tipped Length	Accuracy	Type A Code No.	Type B Code No.	Type A Code No.	Type B Code No.
Inch							
.2-.6"	20mm	1.5mm	±.0008"	7403111	-	7400111	-
.4-.8"	25mm	3.0mm	±.0008"	7403121	7403123	7400121	7400123
.8-1.2"	30mm	6.5mm	±.0008"	7403131	7403133	7400131	7400133
1.2-1.6"	30mm	9.0mm	±.0008"	7403141	7403143	7400141	7400143
1.6-2.0"	30mm	9.0mm	±.0008"	7403151	7403153	7400151	7400153
.2-1.0"	35mm	1.5mm	±.00012"	7403211	-	7400211	-
.4-1.2"	55mm	3.5mm	±.00012"	7403221	7403223	7400221	7400223
.8-1.6"	80mm	6.5mm	±.00012"	7403231	7403233	7400231	7400233
1.2-2.0"	80mm	8.5mm	±.00012"	7403241	7403243	7400241	7400243
1.6-2.4"	80mm	8.5mm	±.00012"	7403251	7403253	7400251	7400253
Metric							
5-15mm	20mm	1.5mm	±0.02mm	7403110	-	7400110	-
10-20mm	25mm	3.0mm	±0.02mm	7403120	7403122	7400120	7400122
20-30mm	30mm	6.5mm	±0.02mm	7403130	7403132	7400130	7400132
30-40mm	30mm	9.0mm	±0.02mm	7403140	7403142	7400140	7400142
40-50mm	30mm	9.0mm	±0.02mm	7403150	7403152	7400150	7400152
5-25mm	35mm	1.5mm	±0.03mm	7403210	-	7400210	-
10-30mm	55mm	3.5mm	±0.03mm	7403220	7403222	7400220	7400222
20-40mm	80mm	6.5mm	±0.03mm	7403230	7403232	7400230	7400232
30-50mm	80mm	8.5mm	±0.03mm	7403240	7403242	7400240	7400242
40-60mm	80mm	8.5mm	±0.03mm	7403250	7403252	7400250	7400252



Metric	Inch	Measuring contact				
Range	Range	L	S	H	A(R)	B(D)
5-15mm	.2-.6"	20mm	1.0mm	1.5mm	0.3mm	/
10-20mm	.4-.8"	25mm	1.5mm	3.0mm	0.3mm	$\Phi 1.5\text{mm}$
20-30mm	.8-1.2"	30mm	2.0mm	6.5mm	0.5mm	$\Phi 1.5\text{mm}$
30-40mm	1.2-1.6"	30mm	2.5mm	9.0mm	0.5mm	$\Phi 1.5\text{mm}$
40-50mm	1.6-2.0"	30mm	2.5mm	9.0mm	0.5mm	$\Phi 1.5\text{mm}$
5-25mm	.2-1.0"	35mm	1.0mm	1.5mm	0.3mm	/
10-30mm	.4-1.2"	55mm	2.0mm	3.5mm	0.5mm	$\Phi 1.5\text{mm}$
20-40mm	.8-1.6"	80mm	3.0mm	6.5mm	0.5mm	$\Phi 1.5\text{mm}$
30-50mm	1.2-2.0"	80mm	3.0mm	8.5mm	0.5mm	$\Phi 1.5\text{mm}$
40-60mm	1.6-2.4"	80mm	3.0mm	8.5mm	0.5mm	$\Phi 1.5\text{mm}$



External Caliper Gauges

404 / 405 Series



7404210



7405110

FEATURES

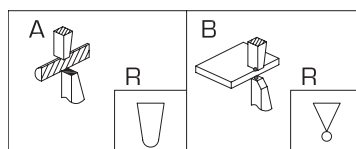
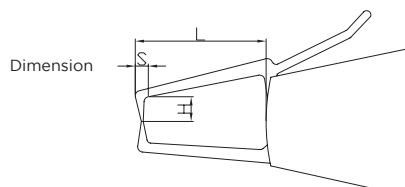
- Resolution:
Digital models: .0002" / 0.005mm; Dial models: .0005" / 0.01mm
- Designed to measure hard to access external work piece characteristics
- This measuring instrument provides comparison readings and must be set to the nominal dimension using either gauge blocks or an external setting master
The digital model allows the display housing to be rotated $\pm 170^\circ$

STANDARD ACCESSORIES

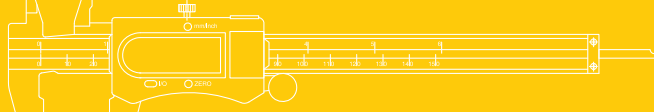
- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

				Dial models		Digital models	
Range	Arm Length	Tipped Length	Accuracy	Type A Code No.	Type B Code No.	Type A Code No.	Type B Code No.
Inch							
0-.4"	20mm	1.5mm	±.0008"	7405111	7405113	7404111	7404113
.4-.8"	25mm	3.0mm	±.0008"	7405121	7405123	7404121	7404123
.8-1.2"	30mm	6.5mm	±.0008"	7405131	7405133	7404131	7404133
1.2-1.6"	30mm	9.0mm	±.0008"	7405141	7405143	7404141	7404143
1.6-2.0"	30mm	9.0mm	±.0008"	7405151	7405153	7404151	7404153
0-.8"	35mm	1.5mm	±.00012"	7405211	7405213	7404211	7404213
.4-1.2"	55mm	3.5mm	±.00012"	7405221	7405223	7404221	7404223
.8-1.6"	80mm	6.5mm	±.00012"	7405231	7405233	7404231	7404233
1.2-2.0"	80mm	8.5mm	±.00012"	7405241	7405243	7404241	7404243
1.6-2.4"	80mm	8.5mm	±.00012"	7405251	7405253	7404251	7404253
Metric							
0-10mm	20mm	1.5mm	±0.02mm	7405110	7405112	7404110	7404112
10-20mm	25mm	3.0mm	±0.02mm	7405120	7405122	7404120	7404122
20-30mm	30mm	6.5mm	±0.02mm	7405130	7405132	7404130	7404132
30-40mm	30mm	9.0mm	±0.02mm	7405140	7405142	7404140	7404142
40-50mm	30mm	9.0mm	±0.02mm	7405150	7405152	7404150	7404152
0-20mm	35mm	1.5mm	±0.03mm	7405210	7405212	7404210	7404212
10-30mm	55mm	3.5mm	±0.03mm	7405220	7405222	7404220	7404222
20-40mm	80mm	6.5mm	±0.03mm	7405230	7405232	7404230	7404232
30-50mm	80mm	8.5mm	±0.03mm	7405240	7405242	7404240	7404242
40-60mm	80mm	8.5mm	±0.03mm	7405250	7405252	7404250	7404252



Metric	Inch	Measuring contact				
Range	Range	L	S	H	A(R)	B(D)
0-10mm	0-.8"	40mm	3mm	8mm	0.5mm	$\Phi 1.5\text{mm}$
10-20mm	.4-.8"	40mm	3mm	8mm	0.5mm	$\Phi 1.5\text{mm}$
20-30mm	.8-1.2"	40mm	3mm	8mm	0.5mm	$\Phi 1.5\text{mm}$
30-40mm	1.2-1.6"	40mm	3mm	8mm	0.5mm	$\Phi 1.5\text{mm}$
40-50mm	1.6-2.0"	40mm	3mm	8mm	0.5mm	$\Phi 1.5\text{mm}$
0-20mm	0-.8"	80mm	6.5mm	25mm	0.75mm	$\Phi 1.5\text{mm}$
10-30mm	.4-1.2"	80mm	6.5mm	25mm	0.75mm	$\Phi 1.5\text{mm}$
20-40mm	.8-1.6"	80mm	6.5mm	25mm	0.75mm	$\Phi 1.5\text{mm}$
30-50mm	1.2-2.0"	80mm	6.5mm	25mm	0.75mm	$\Phi 1.5\text{mm}$
40-60mm	1.6-2.4"	80mm	6.5mm	25mm	0.75mm	$\Phi 1.5\text{mm}$



Caliper Extender Attachments

300 Series



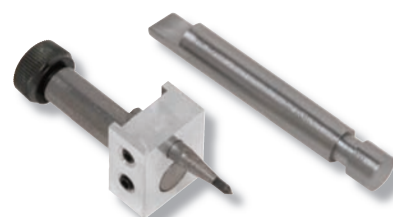
7300010



7300011



7300014



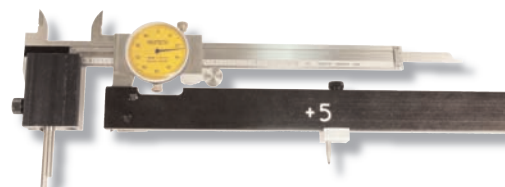
7300015

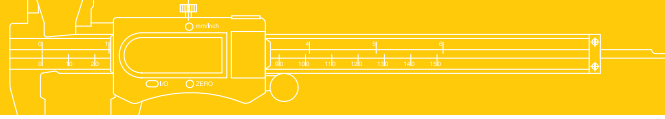
FEATURES

- A unique Caliper accessory that extends the range of your 6" Caliper up to 91"
- Allows both inside and outside measurements of up to 51" with your 6" Dial, Vernier, or Digital Caliper. These Extender Kits allow you to perform measuring operations without the expense of purchasing a stand alone Caliper, which could cost thousands of dollars! For the occasional measuring situation, these Kits provide the answer at a reasonable cost
- Extension bars are manufactured from high grade Aluminum, and black anodized with white numerals for clarity and protection
- The 91" model is clear anodized, with white numerals
- All mounting hardware and calibration rods are included
- Complete instructions accompany this easy to use kit. Choose the model that fits the range of measurements you need
- Caliper not included

SPECIFICATIONS

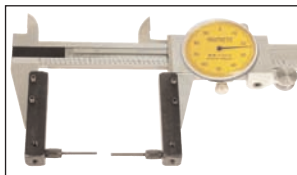
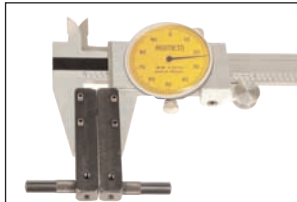
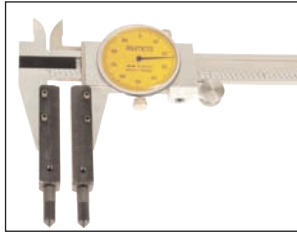
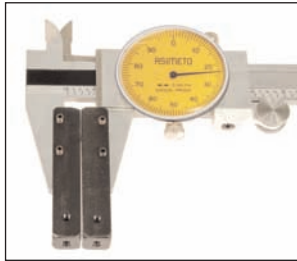
Description	Tolerance	Code No.
26" Extension Kit	±.003"	7300010
36" Extension Kit	±.003"	7300020
51" Extension Kit	±.004"	7300030
71" Extension Kit	±.005"	7300040
91" Extension Kit	±.006"	7300050
Accessory		
1/2" Projection Pins (pair)		7300011
1" Projection Pins (pair)		7300012
1-1/2" Projection Pins (pair)		7300013
Centerline Gauge Pins		7300014
Layout Kit		7300015





Universal Caliper Accessory Kit

300 Series



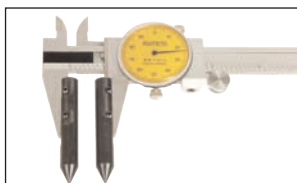
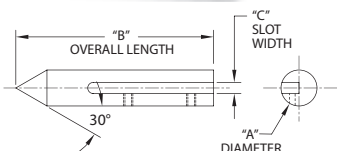
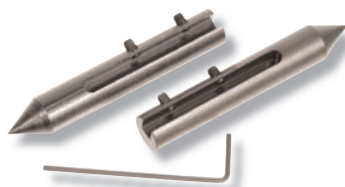
FEATURES

- The original caliper jaw attachment accessory.
- The square bodies attach to the jaws of any 4", 6", 8" Caliper. Threaded holes are located in the front, both sides, and the bottoms of the bodies, allowing the use of the points on any side.
- Measures slots, grooves, shoulders, holes, pockets, and takes ID and OD measurements.
- Steel, Black Oxide finish

SPECIFICATIONS

Code No.: 300-11-0		
Kit contains:	QTY	Description
Universal Caliper Bodies	1 pair	3/8" square x 2" length. Slot for Caliper jaws is .147 wide. 4-40 holes for set screws fasten the body to the caliper jaw
Flat Points	1 pair	3/16 diameter x .810 length. 4-48 threads
Cone Points	1 pair	3/16 diameter x .810 length. 4-48 threads
Stem Points	1 pair	3/16 body diameter, .084 stem diameter x .820 length. 4-48 threads
Ball Points	1 pair	3/16 diameter x .810 length. 4-48 threads

Centerline Gauges

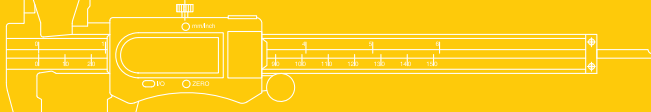


FEATURES

- Measures centerline distances.
- Easily attaches to Dial, Vernier, and Digital Calipers.
- 60 Degree Conical Points.
- Hardened Steel with Black Oxide finish.
- Attaches in seconds with Set Screws.
- Supplied in High Impact Tubes with Allen Wrench.
- User friendly instructions.

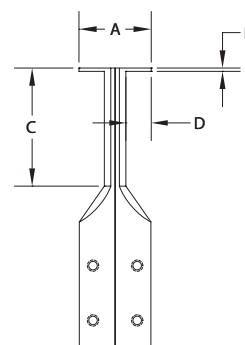
SPECIFICATIONS

used	Min Measuring	A	B	C	Code No.
4", 6", and 8" Calipers	3/8"	.375"	2-5/16"	.127"	7300130
12" Calipers	1/2"	.500"	2.762"	.144"	7300140



Groove Measurement Caliper Jaws

300 Series

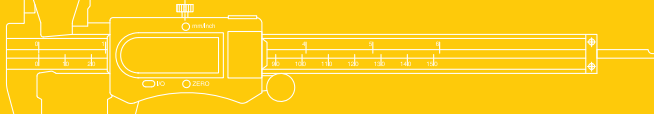


FEATURES

- Fits on any vernier, dial or digital 6" caliper.
- Enables the measurement of hard to reach work piece characteristics such as internal grooves.
- Measuring range of 0.200 to 6.000 inches.
- Designed with an alignment pin ensuring correct alignment of the measuring surfaces.
- Manufactured in the USA with black oxide finish.
- Supplied in a plastic fitted case.

SPECIFICATIONS

Min Measurement (A)	Width of Feet (B)	Max Depth (C)	Groove Depth (D)	Code No.
.200"	.015"	.400"	.050"	7300210
.300"	.015"	.625"	.070"	7300220
.600"	.025"	1.000"	.200"	7300230
.725"	.040"	1.250"	.255"	7300240
External Measurement	.024"	3.000"	.375"	7300250
Set	Description			
3 Pair Set	Includes Max. Depth of .400, .625, & 1"			7300203
5 Pair Set	Includes All Jaws Pictured Above			7300205

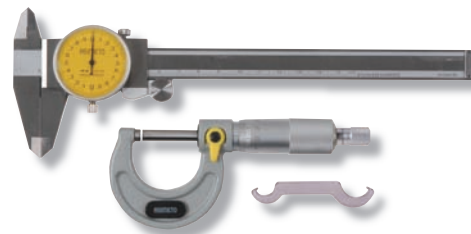


Tool Kits

960 Series

Kit #1 Analog

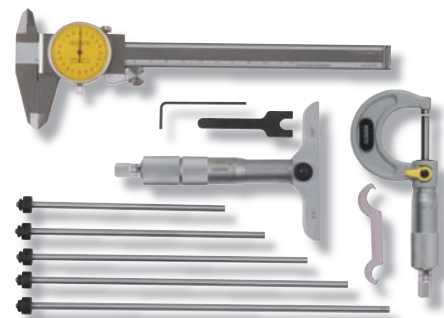
	Inch	Metric
Code No.	7960011	7960010
Individual Description	Individual Code No.	Individual Code No.
0-6" x .001", 0-150mm x 0.02mm Dial Caliper	7303061	7303062
0-1" x .0001", 0-25mm x 0.01mm Outside Mic.	7101013	7101010



7960010

Kit #2 Analog Plus

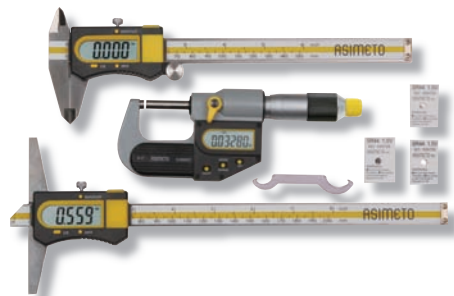
	Inch	Metric
Code No.	7960021	7960020
Individual Description	Individual Code No.	Individual Code No.
0-6" x .001", 0-150mm x 0.02mm Dial Caliper	7303061	7303062
0-1" x .0001", 0-25mm x 0.01mm Outside Mic.	7101013	7101010
0-6" x .001", 0-150mm x 0.01mm Depth Mic.	7201061	7201060



7960020

Kit #3 Digital Plus

	Inch	Metric
Code No.	7960031	7960030
Individual Description	Individual Code No.	Individual Code No.
0-6" x .0005", 0-150mm x 0.01mm Digital Caliper	7307061	7307060
0-1" x .00005", 0-25mm x 0.001mm Digital Outside Mic.	7106015	7106014
0-8" x .0005", 0-200mm x 0.01mm Digital Depth Caliper	7327080	7327080



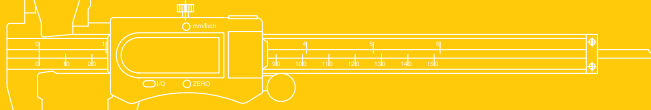
7960031

Kit #5 Digital

	Inch	Metric
Code No.	7960051	7960050
Individual Description	Individual Code No.	Individual Code No.
0-6" x .0005", 0-150mm x 0.01mm Digital Caliper	7307061	7307060
0-1" x .00005", 0-25mm x 0.001mm Digital Outside Mic.	7106015	7106014



7960051



Tool Kits

960 Series

7960100



Kit #6 Magnetic Base and Dial Gauge

	Inch	Metric
Code No.	7960061	7960060
Individual Description	Individual Code No.	Individual Code No.
Magnetic Stand with 6" Rods and Universal Clamp	7601011	7601010
AGD2 Dial Indicator 0-1" x .001", 0-10mm X 0.01mm	7402261	7402100

7960080



Kit #7 Magnetic Base and Dial Gauge Plus

	Inch	Metric
Code No.	7960071	7960070
Individual Description	Individual Code No.	Individual Code No.
Magnetic Stand with 6" Rods and Universal Clamp	7601011	7601010
AGD2 Dial Indicator 0-.050" x .0001", 0-1mm x 0.001mm	7402011	7402010

Kit #8 Magnetic Adj. Base and Dial Gauge

	Inch	Metric
Code No.	7960081	7960080
Individual Description	Individual Code No.	Individual Code No.
Magnetic Stand with 6" Rods and Universal Clamp / Fine Adjustment	7601021	7601020
AGD2 Dial Indicator 0-1" x .001", 0-10mm X 0.01mm	7402261	7402100

Kit #9 Magnetic Adj. Base and Dial Gauge Plus

	Inch	Metric
Code No.	7960091	7960090
Individual Description	Individual Code No.	Individual Code No.
Magnetic Stand with 6" Rods and Universal Clamp / Fine Adjustment	7601021	7601020
AGD2 Dial Indicator 0-.050" x .0001", 0-1mm x 0.001mm	7402011	7402010

Kit #10 Magnetic Base and Test Indicator

	Inch	Metric
Code No.	7960101	7960100
Individual Description	Individual Code No.	Individual Code No.
Magnetic Stand with 6" Rods and Universal Clamp	7601011	7601010
Horiz. Dial Test Indicator .03" x .0005", 0.8mm x 0.01mm	7501731	7501080

Kit #11 Magnetic Base and Test Indicator Plus

	Inch	Metric
Code No.	7960111	7960110
Individual Description	Individual Code No.	Individual Code No.
Magnetic Stand with 6" Rods and Universal Clamp	7601011	7601010
Horiz. Dial Test Indicator .008" x .0001", 0.2mm x 0.002mm	7501781	7501020

Kit #12 Magnetic Adj. Base and Test Indicator

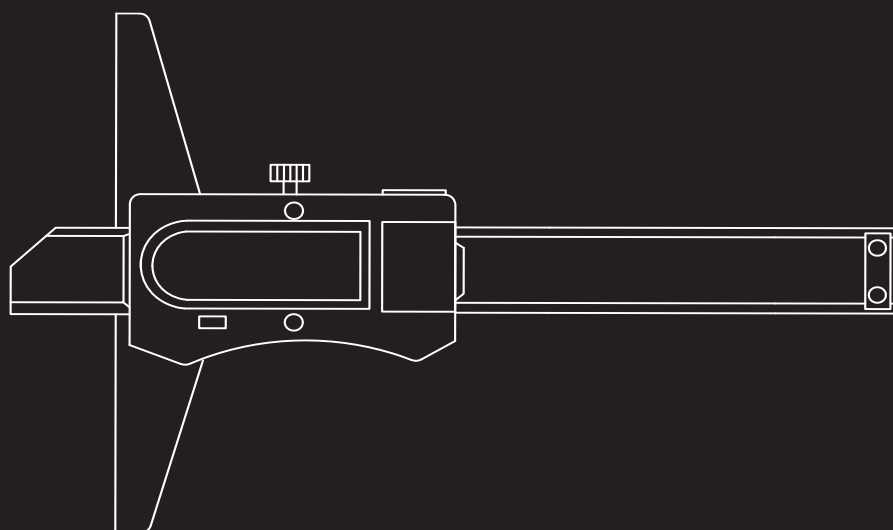
	Inch	Metric
Code No.	7960121	7960120
Individual Description	Individual Code No.	Individual Code No.
Magnetic Stand with 6" Rods and Universal Clamp / Fine Adjustment	7601021	7601020
Horiz. Dial Test Indicator .03" x .0005", 0.8mm x 0.01mm	7501731	7501080

Kit #13 Magnetic Adj. Base and Test Indicator Plus

	Inch	Metric
Code No.	7960131	7960130
Individual Description	Individual Code No.	Individual Code No.
Magnetic Stand with 6" Rods and Universal Clamp / Fine Adjustment	7601021	7601020
Horiz. Dial Test Indicator .008" x .0001", 0.2mm x 0.002mm	7501781	7501020

Depth & Height Gauges

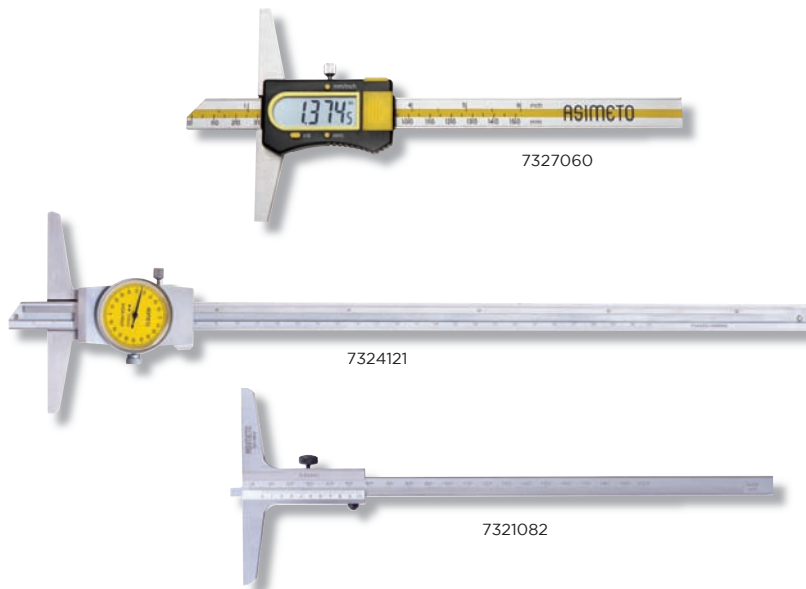
- 77 Depth Calipers
- 78 Depth Calipers With Single Hook
- 79 Depth Calipers With Double Hook
- 80 Depth Base Attachments For Calipers
- 81 Thickness Gauges
- 82 Depth Gauges
- 82 Digital Depth Gauges
- 83 Single Beam Digital Height Gauges With Hand Wheel
- 83 Digital Height Gauges
- 84 Double Beam Digit Counter Height Gauges With Hand Wheel
- 84 Double Beam Digital Height Gauges With Hand Wheel
- 85 Vernier Height Gauges





Depth Calipers

321 / 324 / 327 Series



FEATURES

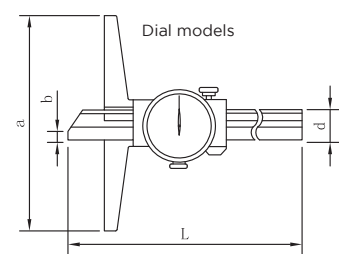
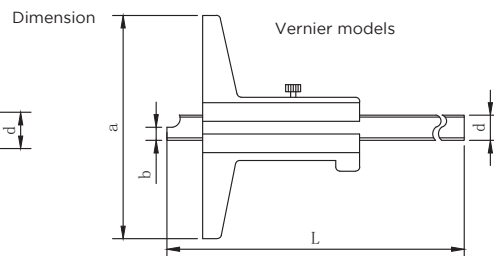
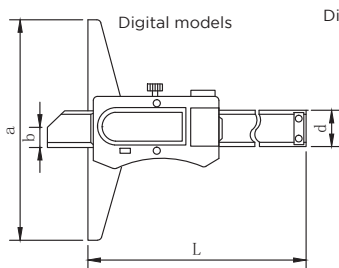
- Resolution:
 - Digital models: .0005" / 0.01mm
 - Vernier models: .001" / 0.02mm or 0.05mm
 - Dial models: .001" / 0.02mm
- Both of the measuring surfaces are precision ground for accuracy
- Models are available in Vernier, Dial or Digital designs

STANDARD ACCESSORIES

- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch			Metric				
Range	Graduation	Accuracy	Range	Graduation	Accuracy	Code No.	Code No.
Digital models							
0-6"	.0005"	±.001"	0-150mm	0.01mm	±0.02mm	-	7327060
0-8"	.0005"	±.0015"	0-200mm	0.01mm	±0.03mm	-	7327080
0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	-	7327120
Vernier models							
0-6"	.001"	±.001"	0-150mm	0.02mm	±0.02mm	7321061	7321062
0-8"	.001"	±.0015"	0-200mm	0.02mm	±0.03mm	7321081	7321082
0-12"	.001"	±.0015"	0-300mm	0.02mm	±0.04mm	7321121	7321122
0-20"	.001"	±.002"	0-500mm	0.02mm	±0.06mm	7321201	7321202
-	-	-	0-150mm	0.05mm	±0.05mm	-	7321060
-	-	-	0-200mm	0.05mm	±0.05mm	-	7321080
-	-	-	0-300mm	0.05mm	±0.05mm	-	7321120
Dial models							
0-6"	.001"	±.001"	0-150mm	0.02mm	±0.02mm	7324061	7324060
0-8"	.001"	±.0015"	0-200mm	0.02mm	±0.03mm	7324081	7324080
0-12"	.001"	±.0015"	0-300mm	0.02mm	±0.04mm	7324121	7324120



Range	Digital models				Vernier models				Dial models			
Inch/Metric	L	a	b	d	L	a	b	d	L	a	b	d
0-6"/0-150mm	230mm	100mm	6mm	14.5mm	250mm	100mm	5mm	10mm	236mm	100mm	4.6mm	13.5mm
0-8"/0-200mm	280mm	100mm	6mm	14.5mm	300mm	100mm	5mm	10mm	286mm	100mm	4.6mm	13.5mm
0-12"/0-300mm	380mm	100mm	6mm	14.5mm	400mm	100mm	5mm	10mm	386mm	100mm	4.6mm	13.5mm



Depth Calipers With Single Hook

322 Series

FEATURES

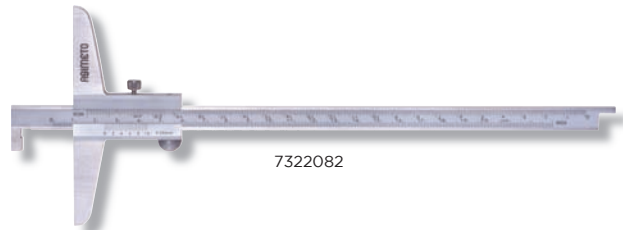
- Resolution:
Digital models: .0005" / 0.01mm
Vernier models: .001" / 0.05mm
- The stationary measuring surface on the beam protrudes at right angles (measuring hook) to allow for the measurement of depths, internal groove positions, and other intricate characteristics
- Measurements can be taken on either side of the measuring hook
- Vernier models are designed allowing the main beam to be reversible with corresponding scales on the slider
- All measuring surfaces are hardened
- Both Vernier and Digital models are available

STANDARD ACCESSORIES

- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate



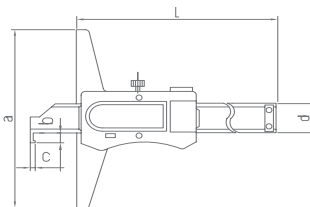
7322065



7322082

SPECIFICATIONS

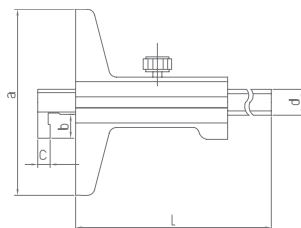
Inch			Metric			Inch	Metric
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.	Code No.
Digital models							
0-6"	.0005"	±.001"	0-150mm	0.01mm	±0.02mm	-	7322065
0-8"	.0005"	±.0015"	0-200mm	0.01mm	±0.03mm	-	7322085
0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	-	7322125
Vernier models							
0-6"	.001"	±.001"	0-150mm	0.05mm	±0.05mm	7322063	7322062
0-8"	.001"	±.0015"	0-200mm	0.05mm	±0.05mm	7322083	7322082
0-12"	.001"	±.0015"	0-300mm	0.05mm	±0.08mm	7322123	7322122



Dimension

Digital models

Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	230	100	5	2	14.5
0-8"/0-200mm	280	100	5	2	14.5
0-12"/0-300mm	380	100	5	2	14.5



Vernier models

Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	250	100	10	5	10
0-8"/0-200mm	300	100	10	5	10
0-12"/0-300mm	400	100	10	5	10

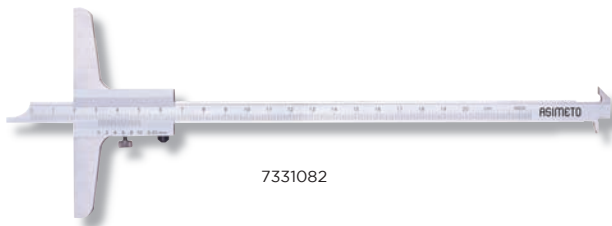


Depth Calipers With Double Hook

323 / 331 Series



7323065



7331082

FEATURES

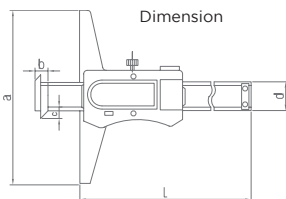
- Resolution:
Digital models: .0005" / 0.01mm
Vernier models: .001" / 0.05mm
- The hooked measuring surfaces are used for measurement of internal or external grooves and other intricate work piece characteristics
- The main beam on the Vernier models is double sided with dual scales, and is able to be reversed in the slider for measurement flexibility
- The base and measuring faces are hardened and precision ground
- Both Digital and Vernier models are available

STANDARD ACCESSORIES

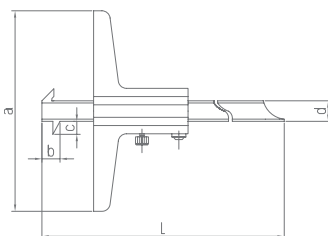
- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch			Metric				
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.	Code No.
Digital models							
0-6"	.0005"	±.001"	0-150mm	0.01mm	±0.02mm	-	7323065
0-8"	.0005"	±.0015"	0-200mm	0.01mm	±0.03mm	-	7323085
0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	-	7323125
Vernier models							
0-6"	.001"	±.001"	0-150mm	0.05mm	±0.05mm	7331063	7331062
0-8"	.001"	±.0015"	0-200mm	0.05mm	±0.05mm	7331083	7331082
0-12"	.001"	±.0015"	0-300mm	0.05mm	±0.08mm	7331123	7331122



Digital models



Vernier models

Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	230	100	5	2	14.5
0-8"/0-200mm	280	100	5	2	14.5
0-12"/0-300mm	380	100	5	2	14.5

Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	250	100	5	7	10
0-8"/0-200mm	300	100	5	7	10
0-12"/0-300mm	400	100	5	7	10



Depth Base Attachment for Calipers

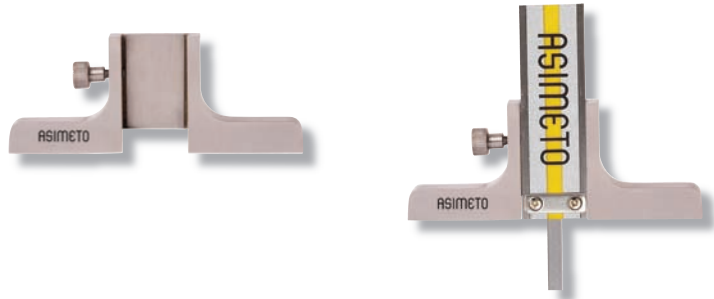
327 Series

FEATURES

- For up to 200mm calipers with depth bar
- Made of stainless steel

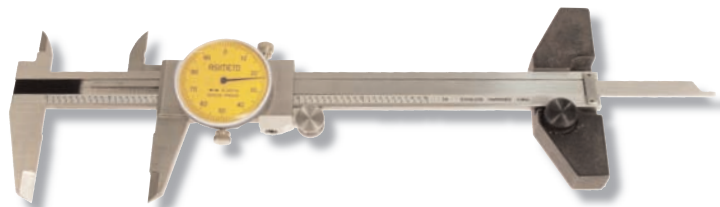
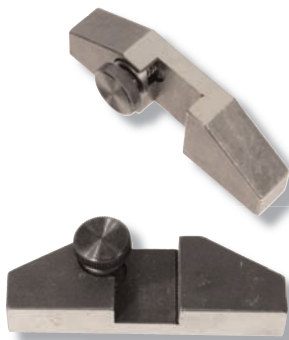
SPECIFICATIONS

Base Length	Code No.
75mm/3"	7327669



Depth Base Attachments for Calipers

327 Series



FEATURES

- This handy attachment transforms your Dial, Vernier, or Digital Caliper into a depth measurement device, without the expense of standalone Depth Micrometers.
- Fits all brands of Calipers
- Precision Ground Base
- Screw Locking Clamp
- Cold Rolled Steel
- Case Hardened .005/.010 deep
- Black Oxide coated

SPECIFICATIONS

Description	Base Width	Base Height	Slot Width	Code No.
3" Base - Fits 4-6" Calipers	1/2"	3/4"	.700"	7327653
4" Base - Fits 4-6" Calipers	1/2"	3/4"	.700"	7327654
5" Base - Fits 12" Calipers	1/2"	3/4"	.865"	7327655





Thickness Gauges

495 / 491 Series



7491010



7495020

FEATURES

- Resolution:
Digital models: .0005" or .0001" / 0.01mm or 0.001mm
Dial models: .001" / 0.01mm
- Designed for the measurement of paper, film, wire, sheet metal, jewelry, leather and similar materials
- Measurement anvils are flat

STANDARD ACCESSORIES

- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

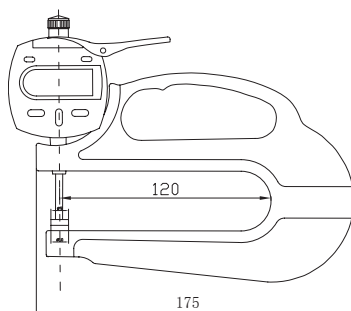
SPECIFICATIONS

Digital models

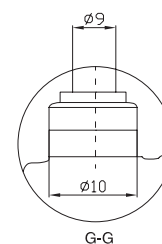
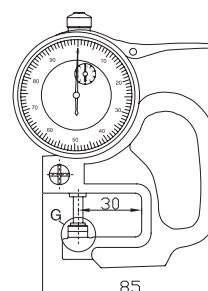
Inch			Metric			Deep Throat	Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy		
0-0.4"	.0005"	±.001"	0-10mm	0.01mm	±0.015mm	30mm	7495010
0-0.4"	.0005"	±.001"	0-10mm	0.01mm	±0.015mm	120mm	7495020
0-0.4"	.00005"	±.0005"	0-10mm	0.001mm	±0.01mm	30mm	7495013
0-0.4"	.00005"	±.0005"	0-10mm	0.001mm	±0.01mm	120mm	7495023

Dial models

Inch		Metric		Deep Throat	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-0.4"	±.0001"	0-10mm	±0.015mm	30mm	7491011	7491010
0-0.4"	±.0001"	0-10mm	±0.015mm	120mm	7491021	7491020



Dimension





Depth Gauges

473 / 475 Series

FEATURES

- Resolution:
Digital models: .0005" or .0001" / 0.01mm or 0.001mm
Dial models: .001" / 0.01mm
- The total measuring range is accomplished with threaded depth rods in 1" or 20mm intervals
- The base surface is precisely finished and hardened for accurate repeatable measurements
- Inch/Metric conversion for digital models

STANDARD ACCESSORIES

- Battery (Digital models), Interchangeable rods
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Digital models

Inch			Metric			Stroke	Rods	Base Length	Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy				
0-4"	.0005"	±.001"	0-100mm	0.01mm	0.02mm	12.7mm	10 pcs	63 x 17mm	7475040
0-4"	.0005"	±.001"	0-100mm	0.01mm	0.02mm	12.7mm	10 pcs	101.5 x 17mm	7475042
0-4"	.00005"	±.0005"	0-100mm	0.001mm	0.01mm	12.7mm	10 pcs	63 x 17mm	7475044
0-4"	.00005"	±.0005"	0-100mm	0.001mm	0.01mm	12.7mm	10 pcs	101.5 x 17mm	7475046

Dial models

Range	Resolution	Accuracy	Stroke	Rods	Base Length	Code No.
Inch						
0-4"	.001"	.002"	1"	4 pcs	2.5" x .63"	7473041
0-4"	.001"	.002"	1"	4 pcs	4" x .63"	7473043
Metric						
0-100mm	0.01mm	0.02mm	10mm	10 pcs	63.5 x 17mm	7473040
0-100mm	0.01mm	0.02mm	10mm	10 pcs	101.6 x 17mm	7473042



7475044



7473040

Digital Depth Gauges

321 Series

FEATURES

- Resolution: .0005" / 0.01mm
- The origin point is retained throughout the life of the battery
- Inch/Metric conversion
- Spherical end anvil

STANDARD ACCESSORIES

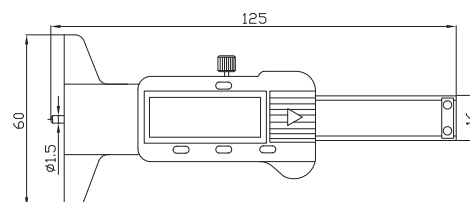
- Battery
- Warranty card, Calibration certificate

SPECIFICATIONS

Inch		Metric		Base Length	Code No.
Range	Accuracy	Range	Accuracy		
0-1.2"	±.0015"	0-30mm	±0.03mm	60mm	7321010



7321010





Single Beam Digital Height Gauges with Hand Wheel

626 Series

FEATURES

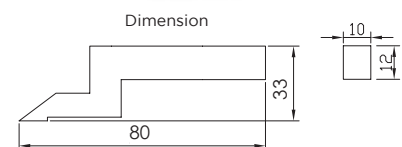
- Resolution: .0005" / 0.01mm
- Large LCD display
- Hand wheel design for fine adjustment
- Metric/Inch conversion at any position
- Zero setting on any position
- Carbide tipped scriber provided
- Manual power On/Off

STANDARD ACCESSORIES

- Carbide tipped scriber with clamp, Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-12"	±.0015"	0-300mm	±0.04mm	7626120
0-18"	±.0015"	0-450mm	±0.04mm	7626180
0-24"	±.0020"	0-600mm	±0.05mm	7626240



Digital Height Gauges

625 Series

FEATURES

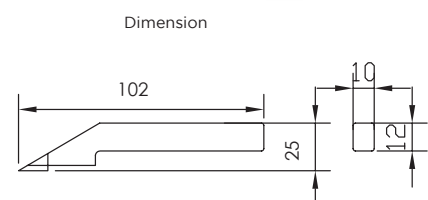
- Resolution: .0005" / 0.01mm
- Origin memory eliminates the need to zero the reading each time the height gauge is turned on
- Can be used with a test indicator and holder for precise measurement
- Inch/Metric conversion
- The fine-adjustment allows the slider to be precisely positioned
- The base is designed with a thermal heat isolation hand grip

STANDARD ACCESSORIES

- Carbide tipped scriber with clamp, Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-12"	±.0015"	0-300mm	±0.04mm	7625120
0-24"	±.0020"	0-600mm	±0.07mm	7625240
0-40"	±.0040"	0-1000mm	±0.10mm	7625400





Double Beam Digit Counter Height Gauges with Hand Wheel 623 Series



7623181

FEATURES

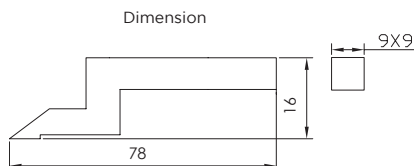
- Graduation: .001" / 0.01mm.
- Position is displayed by a combination of the digit counter and the dial
- Hand wheel design for both coarse and fine adjustments
- Digit counter graduation: Inch .1", Metric 1mm
- The digit counters provide bi-directional positioning and the capability of setting zero at any position

STANDARD ACCESSORIES

- Carbide tipped scriber with clamp
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		Inch	
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-12"	±.0015"	0-300mm	±0.04mm	7623121	7623120
0-18"	±.0020"	0-450mm	±0.05mm	7623181	7623180
0-24"	±.0020"	0-600mm	±0.07mm	7623241	7623240
0-40"	±.0030"	0-1000mm	±0.07mm	7623401	7623400



Double Beam Digital Height Gauges with Hand Wheel 627 Series

627 Series



7627240

FEATURES

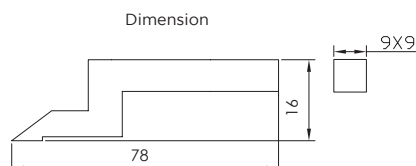
- Resolution: .001" / 0.01mm
- Designed with hand wheel micro-adjustable rack and pinion for precision positioning
- Can be used with a test indicator and holder (on page 114) for precise measurement
- Zero setting at any position
- Manual power On/Off
- Metric/Inch system conversion
- Large LCD display

STANDARD ACCESSORIES

- Carbide tipped scriber with clamp, Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-12"	±.0015"	0-300mm	±0.04mm	7627120
0-18"	±.0015"	0-450mm	±0.04mm	7627180
0-24"	±.0020"	0-600mm	±0.05mm	7627240





Vernier Height Gauges

621 Series

FEATURES

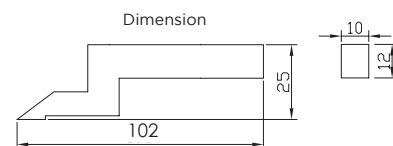
- Graduation:
 - Inch: .001" or 1/128"
 - Metric: 0.02mm or 0.05mm
- The fine-adjustment allows the slider to be precisely positioned
- Matte chrome finish
- Stainless steel design
- The base is designed with a thermal heat isolation hand grip

STANDARD ACCESSORIES

- Carbide tipped scriber with clamp
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch			Metric			Code No.
Range	Graduation	Accuracy	Range	Graduation	Accuracy	
0-12"	1/128"	±0.015"	0-300mm	0.05mm	±0.05mm	7621120
0-24"	1/128"	±0.020"	0-600mm	0.05mm	±0.10mm	7621240
0-12"	.001"	±0.015"	0-300mm	0.02mm	±0.04mm	7621122
0-24"	.001"	±0.020"	0-600mm	0.02mm	±0.05mm	7621242



Holding Bars



7500210



7500211

Swivel Clamps

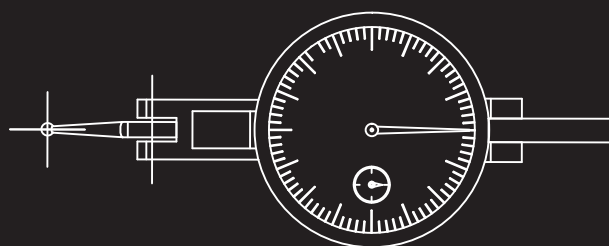
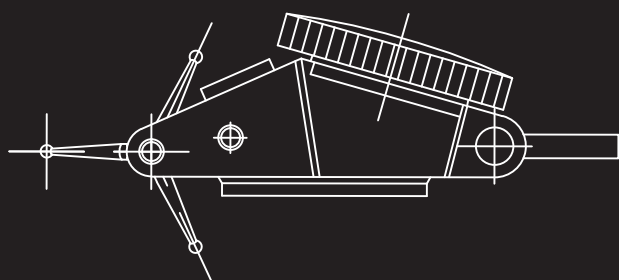


Size	Code No.
.25x.5", Length: 2"	7500211
.25x.5", Length: 4"	7500213
9x9mm, Length: 50mm	7500210
9x9mm, Length: 100mm	7500212
10x12mm, Length: 50mm	7500214
10x12mm, Length: 100mm	7500216

Description	Code No.
For 3/8" & 5/32" dia. Dovertail Stem	7500251
For 8mm & 6mm dia. Dovertail Stem	7500252

Indicators & Dial Gauges

88	IP67 Digital Indicators_SYLVAC SYSTEM
89	Digital Indicators
90	Digital Indicators With Analog Display
91	AGD1 Dial Indicators
92	AGD2 Dial Indicators
95	Crank Shaft Gauge
95	Dial Comparators
96	Dial Indicators - One revolution for Error-free Reading
96	Straight Metric Indicator Stem Bushing
97	Back Plunger Type Dial Indicators
97	Back Plunger Dial Indicator Sets
98	Indicator Points
102	Adapters
103	Dial Indicator Extension Rods
103	Indicator Probe Holders
104	Test Indicators
106	Extended Range Dial Test Indicators
107	Extended Range Dial Test Indicator Sets
108	Digital Test Indicators
108	Digital Radius Gauge
109	Float N Lock Positioners
109	Centering Indicators
110	Zero Set Holder
110	Zero Set Universal Attachment
111	Axial Support Bracket
111	Double-Jointed Dovetail Holder
111	Surface Gauges
112	Spring-Loaded Tension Clamps
112	Clamps with Dovetails
113	Inside/Outside Diameter Groove Gauges
113	Dial Indicator Depth Bases
113	Dial Holders
113	Universal Dovetail Indicator Holders
114	Replacement Tips For Test Indicator
118	Optional Accessories for Asimeto Dial Test Indicators
119	CMM Accessories
123	Dial Gauge Stands
123	Precision Granite Stands
124	Magnetic Bases





ASIMETO Digital Indicator

Features:





IP67 Digital Indicators

SYLVAC SYSTEM

408/9 Series



Dial Work Series

FEATURES

- Robust construction.
- Water and coolant resistant.
- Protection rating IP67 according to IEC 60529 (for protected versions), even connected.
- Aluminium case rotating display over 270°
- New technology with configurable menus
- Origin-set/Preset
- Measuring direction conversion
- MAX/MIN/DELTA function
- TOL, Factor
- Data output
- Automatic wake-up and sleeping mode (S.I.S system), absolute System
- Inch/Metric conversion
- Hold function
- Ø8mm stem diameter for metric models
Ø3/8" stem diameter for inch models



Dial One Series

FEATURES

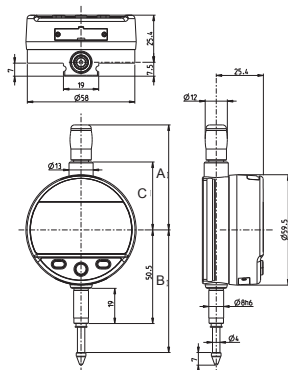
- Robust construction.
- Water and coolant resistant.
- Protection rating IP67 according to IEC 60529 (for protected versions), even connected.
- Origin-set/Preset
- Data output
- Measuring direction conversion
- Inch/Metric conversion
- Ø8mm stem diameter for metric models
Ø3/8" stem diameter for inch models

STANDARD ACCESSORIES

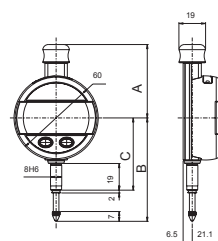
- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

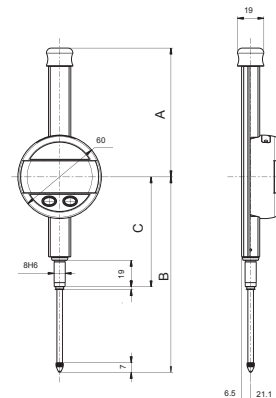
Inch			Metric			A	B	C	Inch	Metric
Range	Resolution	Accuracy	Range	Resolution	Accuracy	mm	mm	mm	Code No.	Code No.
Dial Work Series										
0-.5"	.0005"	±.0008"	0-12.5mm	0.01mm	±0.02mm	56.6	66.1	36.6	7408951	7408950
0-1"	.0005"	±.0012"	0-25mm	0.01mm	±0.02mm	69.3	79	49.4	7408011	7408010
0-2"	.0005"	±.0012"	0-50mm	0.01mm	±0.02mm	121	142.5	73.6	7408021	7408020
0-4"	.0005"	±.0012"	0-100mm	0.01mm	±0.02mm	172	244.5	122.4	7408041	7408040
0-6"	.0005"	±.0015"	0-150mm	0.01mm	±0.03mm	223	351.5	194	7408061	7408060
0-.5"	.00005"	±.0002"	0-12.5mm	0.001mm	±0.004mm	56.6	66.1	36.6	7408955	7408954
0-1"	.00005"	±.0002"	0-25mm	0.001mm	±0.005mm	69.3	79	49.4	7408015	7408014
0-2"	.00005"	±.0003"	0-50mm	0.001mm	±0.007mm	121	142.5	73.6	7408025	7408024
0-4"	.00005"	±.0003"	0-100mm	0.001mm	±0.008mm	172	244.5	122.4	7408045	7408044
0-6"	.00005"	±.0006"	0-150mm	0.001mm	±0.015mm	223	351.5	194	7408065	7408064
Dial One Series										
0-.5"	.0005"	±.0008"	0-12.5mm	0.01mm	±0.02mm	52.3	73.7	51.5	7409951	7409950
0-1"	.0005"	±.0012"	0-25mm	0.01mm	±0.02mm	65.5	86.9	51.5	7409011	7409010
0-2"	.0005"	±.0012"	0-50mm	0.01mm	±0.02mm	92.5	140.5	79	7409021	7409020
0-.5"	.00005"	±.0002"	0-12.5mm	0.001mm	±0.006mm	52.3	73.7	51.5	7409955	7409954
0-1"	.00005"	±.0002"	0-25mm	0.001mm	±0.006mm	65.5	86.9	51.5	7409015	7409014
0-2"	.00005"	±.0003"	0-50mm	0.001mm	±0.008mm	92.5	140.5	79	7409025	7409024



Dial Work Series



Dial One Series





Digital Indicators

405 Series



7405951



Battery



7405010

FEATURES

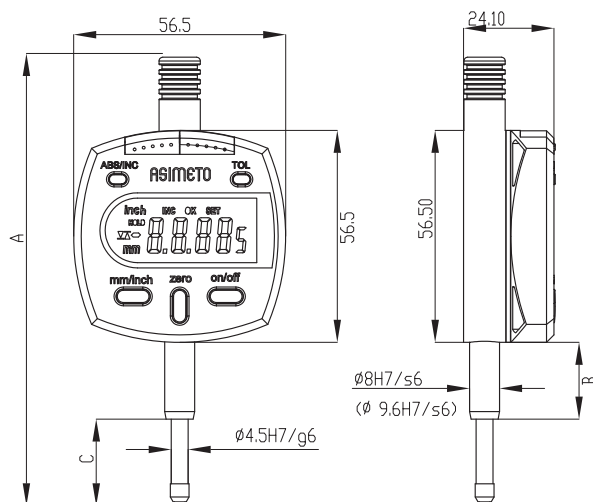
- Resolution:
Inch: .0005"; .00005"
Metric: 0.01mm; 0.001mm
- The maximum, minimum, or runout value can be displayed during measurement.
- Tolerance measurement feature allows for the upper and lower tolerance for maximum and minimum.
- Inch/Metric and ABS/INC conversion
- Flat back (attached) and lug back supplied
- Ø8mm stem diameter for metric models
Ø3/8" stem diameter for inch models

STANDARD ACCESSORIES

- Lug Back, Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch			Metric			Inch	Metric
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.	Code No.
0-.5"	.0005"	±.0008"	0-12.5mm	0.01mm	±0.02mm	7405951	7405950
0-1"	.0005"	±.0012"	0-25mm	0.01mm	±0.02mm	7405011	7405010
0-2"	.0005"	±.0012"	0-50mm	0.01mm	±0.02mm	7405021	7405020
0-.5"	.00005"	±.0002"	0-12.5mm	0.001mm	±0.005mm	7405955	7405954
0-1"	.00005"	±.0002"	0-25mm	0.001mm	±0.005mm	7405015	7405014
0-2"	.00005"	±.0002"	0-50mm	0.001mm	±0.005mm	7405025	7405024



Range	A	B	C
	mm	mm	mm
0-0.5"/0-12.5mm	122	26	24
0-1"/0-25mm	174	47	41
0-2"/0-50mm	248	71	61



Digital Indicators With Analog Display

406 Series

FEATURES

- Resolution: .00005" / 0.002mm
- Absolute measurement
- 360 deg. screen rotation
- Inch/Metric conversion
- Auto power On/Off
- Flat back (attached) and lug back supplied
- Ø8mm stem diameter for metric models
Ø3/8" stem diameter for inch models



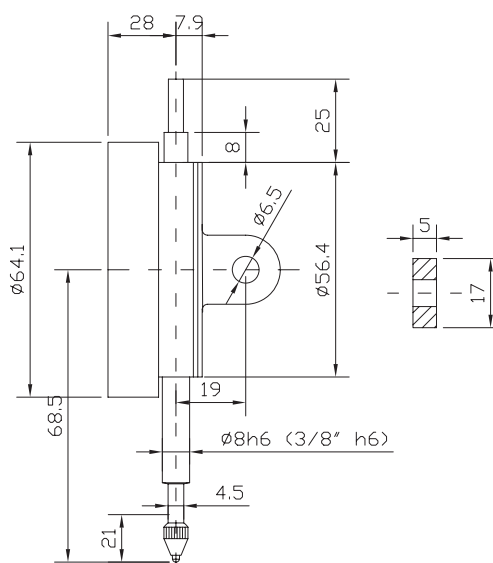
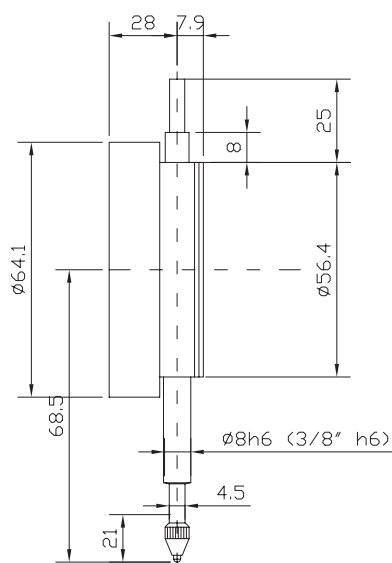
7406051

STANDARD ACCESSORIES

- Lug Back, Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch			Metric			Inch	Metric
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.	Code No.
0-.25"	.00005"	±0.0003"	6.35mm	0.002mm	±0.006mm	7406251	7406250
0-.5"	.00005"	±0.0003"	12.5mm	0.002mm	±0.008mm	7406051	7406050
0-1"	.00005"	±0.0006"	25mm	0.002mm	±0.015mm	7406011	7406010





AGD1 Dial Indicators

401 Series

FEATURES

- Graduation:
Inch: .0005"/.001"
Metric: 0.01mm
- Dial face dia.: Ø1.61"/Ø42mm
- Jeweled
- Flat back (attached) and lug back supplied
- Inch models without revolution Counter

STANDARD ACCESSORIES

- Flat Back
- Warranty card, Instruction manual, Calibration certificate



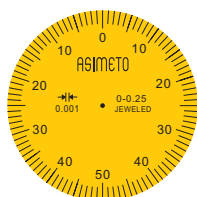
7401061



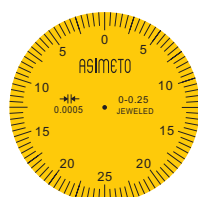
7401052

SPECIFICATIONS

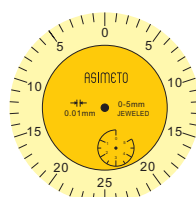
Range	Graduation	Range / Rev.	Dial reading	Accuracy	Code No.
Stem diameter Ø3/8"					
.25"	.001"	.1"	0-100	±.001"	7401061
.25"	.001"	.1"	0-50-0	±.001"	7401063
.25"	.0005"	.05"	0-25-0	±.0005"	7401065
3mm	0.01mm	0.5mm	0-50	±0.02mm	7401031
5mm	0.01mm	0.5mm	0-50	±0.02mm	7401051
5mm	0.01mm	0.5mm	0-25-0	±0.02mm	7401053
Stem diameter Ø8mm					
3mm	0.01mm	0.5mm	0-50	0.014mm	7401030
5mm	0.01mm	0.5mm	0-50	0.016mm	7401050
5mm	0.01mm	0.5mm	0-25-0	0.016mm	7401052



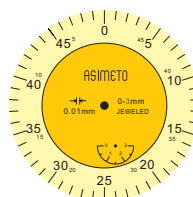
7401063



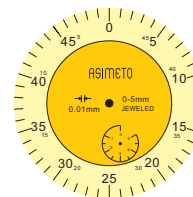
7401065



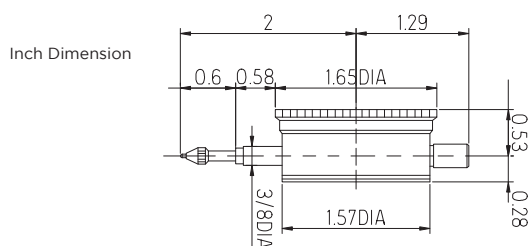
7401052
7401053



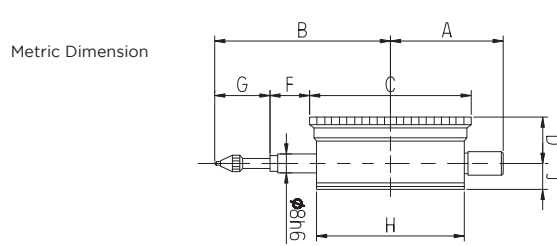
7401030
7401031



7401050
7401051



Inch Dimension



Metric Dimension

Range	A	B	C	D	F	G	H	J
	mm	mm	mm	mm	mm	mm	mm	mm
0-3mm	30.6	46.4	42	13.5	14.7	10.7	40	7
0-5mm	30.6	48.4	42	13.5	14.7	12.7	40	7



AGD2 Dial Indicators

402 Series

FEATURES

- Graduation Inch: .0001", .0005", .001"; Metric, 0.001mm, 0.01mm
- Dial face dia.: Ø2.20"/ Ø58mm
- Easy to read dial face
- Jeweled
- Internal tolerance marker
- Flat back (attached) and lug back supplied
- With counter pointer
- IP54 water proof series: with sealed housing & water resistant ring.

STANDARD ACCESSORIES

- Flat back, Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Graduation	Range / Rev.	Dial reading	Accuracy	Code No.
Stem Diameter Ø3/8"					
.05"	.0001"	.01"	0-100	±.0007"	7402011
.05"	.0001"	.01"	0-50-0	±.0007"	7402013
.25"	.001"	.1"	0-100	±.002"	7402061
.25"	.001"	.1"	0-50-0	±.002"	7402063
.25"	.0005"	.05"	0-25-0	±.0015"	7402065
.50"	.001"	.1"	0-100	±.002"	7402121
.50"	.001"	.1"	0-50-0	±.002"	7402123
.50"	.0005"	.05"	0-50	±.002"	7402125
1"	.001"	.1"	0-100	±.002"	7402261
1"	.001"	.1"	0-50-0	±.002"	7402263
1"	.0005"	.05"	0-50	±.002"	7402265
2"	.001"	.1"	0-100	±.004"	7402511
3mm	0.01mm	1mm	0-100	±0.03mm	7402031
3mm	0.01mm	1mm	0-50-0	±0.03mm	7402033
5mm	0.01mm	1mm	0-100	±0.03mm	7402051
5mm	0.01mm	1mm	0-50-0	±0.03mm	7402053
10mm	0.01mm	1mm	0-100	±0.03mm	7402101
10mm	0.01mm	1mm	0-50-0	±0.03mm	7402103
20mm	0.01mm	1mm	0-50-0	±0.04mm	7402201
25mm	0.01mm	1mm	0-50-0	±0.04mm	7402253
Stem Diameter Ø8mm					
1mm	0.001mm	0.2mm	0-200	0.005mm	7402010
1mm	0.001mm	0.2mm	0-100-0	0.005mm	7402012
3mm	0.01mm	1mm	0-100	0.014mm	7402030
3mm	0.01mm	1mm	0-50-0	0.014mm	7402032
5mm	0.01mm	1mm	0-100	0.016mm	7402050
5mm	0.01mm	1mm	0-50-0	0.016mm	7402052
10mm	0.01mm	1mm	0-100	0.02mm	7402100
10mm	0.01mm	1mm	0-50-0	0.02mm	7402102
20mm	0.01mm	1mm	0-50-0	0.025mm	7402200
20mm	0.01mm	1mm	0-100	0.025mm	7402202
25mm	0.01mm	1mm	0-50-0	0.035mm	7402250
25mm	0.01mm	1mm	0-100	0.035mm	7402252
30mm	0.01mm	1mm	0-100	0.035mm	7402300
30mm	0.01mm	1mm	0-50-0	0.035mm	7402302
50mm	0.01mm	1mm	0-100	0.035mm	7402500
100mm	0.01mm	1mm	0-100	0.050mm	7402000
Shock Proof. Stem Diameter Ø8mm					
5mm	0.01mm	1mm	0-100	0.016mm	7402054
10mm	0.01mm	1mm	0-100	0.02mm	7402108
20mm	0.01mm	1mm	0-100	0.025mm	7402208
IP54 Water Proof Series					
10mm (Stem Dia. Ø8mm)	0.01mm	1mm	0-100	0.02mm	7402104
0.4" (Stem Dia. Ø3/8")	0.001"	0.1"	0-100	±0.002"	7402267
0.4" (Stem Dia. Ø3/8")	0.0005"	0.05"	0-50	±0.0015"	7402269



7402100



7402265

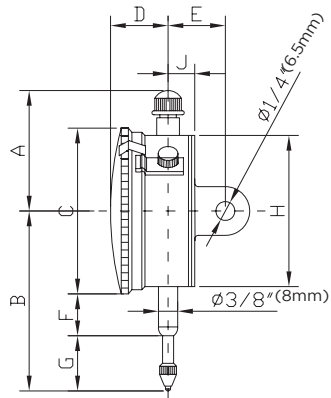


7402104

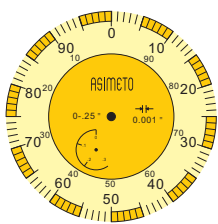


AGD2 Dial Indicators

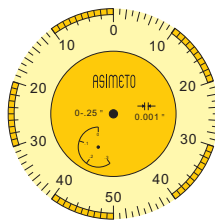
402 Series



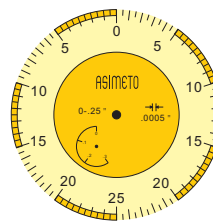
Range	A	B	C	D	E	F	G	H	J
Inch	inch	inch	inch	inch	inch	inch	inch	inch	inch
0-.05"	1.76	2.39	2.28	0.64	0.76	0.69	0.56	2.11	0.32
0-.25"	1.48	2.54	2.28	0.64	0.76	0.69	0.71	2.11	0.32
0-.5"	1.48	2.74	2.28	0.64	0.76	0.69	0.91	2.11	0.32
0-1"	1.48	3.21	2.28	0.64	0.76	0.69	1.38	2.11	0.32
0-2"	4.73	5.5	2.28	0.7	0.76	2	2.34	2.11	0.32
Metric	mm	mm	mm	mm	mm	mm	mm	mm	mm
0-1mm	45	62	58	16.2	19.3	18.3	15	53.5	8.1
0-3mm	43.7	68.5	58	16.3	19	18.3	15	53.5	8.1
0-5mm	43.7	68.5	58	16.3	19	18.3	15	53.5	8.1
0-10mm	43.7	68.5	58	16.3	19	18.3	15	53.5	8.1
0-20mm	37.5	80.5	58	16.3	19.4	17.5	34	53.5	8.4
0-25mm	37.5	80.5	58	16.3	19.4	17.5	34	53.5	8.4
0-30mm	43.7	88	58	15	20	21.5	37.5	53.5	9



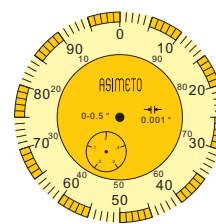
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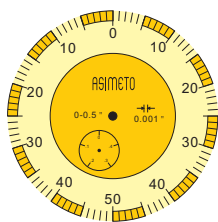
7402063



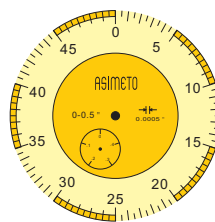
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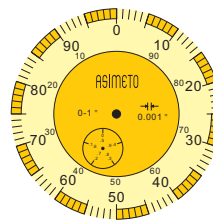
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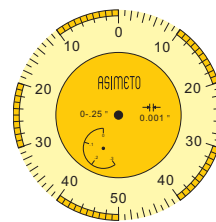
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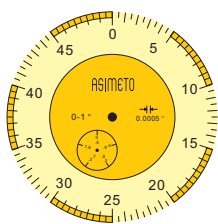
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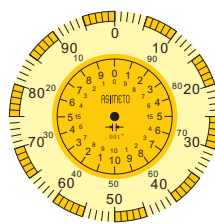
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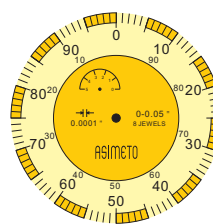
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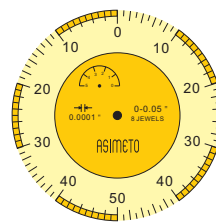
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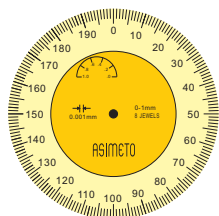
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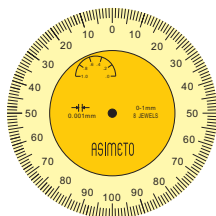
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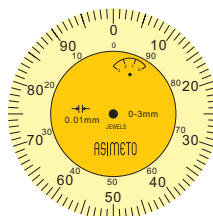
AGD2 Dial Indicators



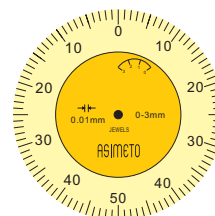
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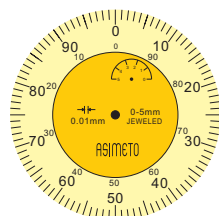
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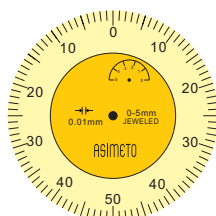
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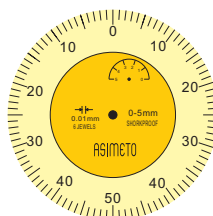
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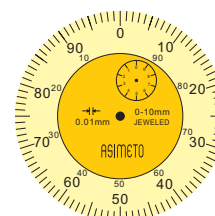
7402050
7402051



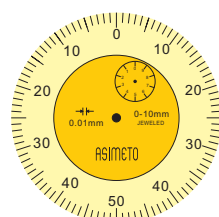
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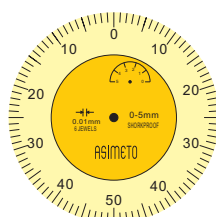
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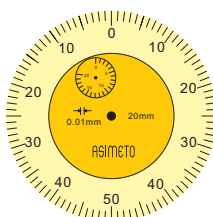
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7402101



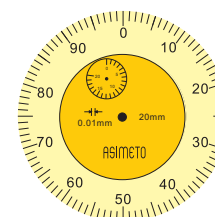
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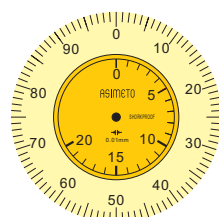
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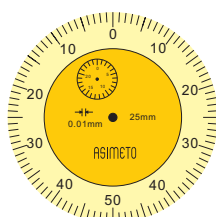
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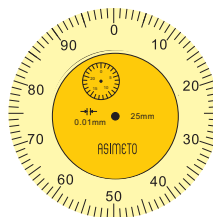
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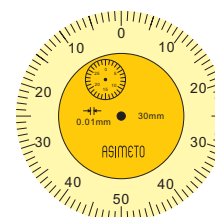
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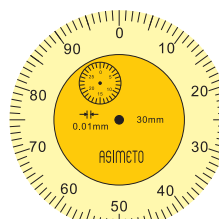
7402250
7402253



7402252



7402302



7402300



Crank Shaft Gauge

469 Series

FEATURES

- Graduation: 0.01mm
- For checking crank shafts and crank shaft bearings of motors for ships, cars, trucks etc. Also in departments for grinding crankshafts, repair of crankshafts and especially for checking of motors or compressors in situ.

STANDARD ACCESSORIES

- Rod, Anvil
- Warranty card, Calibration certificate

SPECIFICATIONS

Range	Dial Travel	Resolution	Code No.
60-300mm	0-3mm	0.01mm	7469103
60-500mm	0-3mm	0.01mm	7469105



Dial Comparator

422 Series

FEATURES

- Resolution: 0.001mm
- High Accuracy
- Jeweled and shock proof
- Water and dust resistant design
- With 8mm stem diameter

STANDARD ACCESSORIES

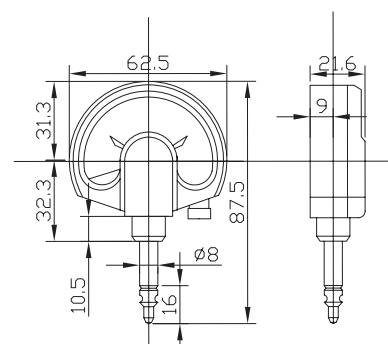
- Spindle lifting cable
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Resolution	Dial reading	Accuracy	Code No.
±0.05mm	0.001mm	50-0-50	±0.0012mm	7422210



7422210





Dial Indicators - One revolution for Error-free Reading

422 Series

FEATURES

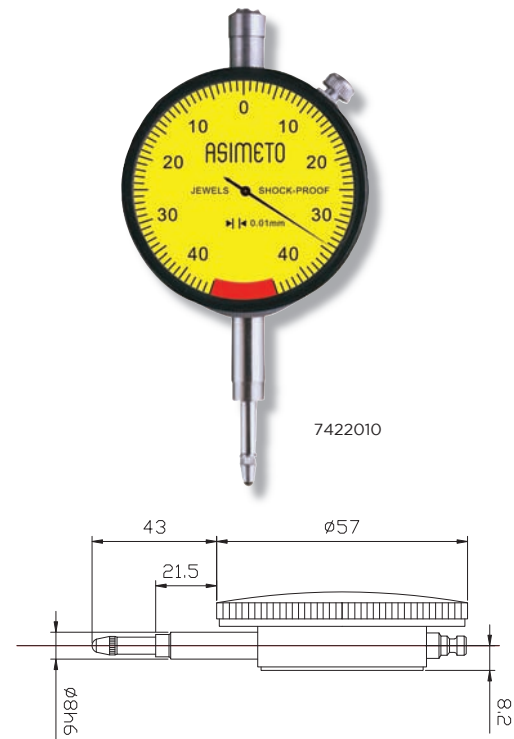
- Graduation: 0.01mm
- AGD2 series, dial face dia. Ø2.20"/Ø58mm
- Easy to read dial face
- A pair of limit hands are provided for quick and easy tolerance judgment
- Provided with an improved resistance to shop floor contaminants such as water and dust
- With Flat back
- With Ø8mm stem diameter

STANDARD ACCESSORIES

- Warranty card, Calibration certificate

SPECIFICATIONS

Range	Graduation	Dial reading	Accuracy	Code No.
0.8mm	0.01mm	40-0-40	±0.009mm	7422010



Straight Metric Indicator Stem Bushing

500 Series

FEATURES

- Accepts 8MM stem, converts to 3/8" diameter stem.
- Straight bushing, no head.
- .500" length.
- Brass, Nickel Plated.



SPECIFICATIONS

Code No.
7500320



Back Plunger Type Dial Indicators

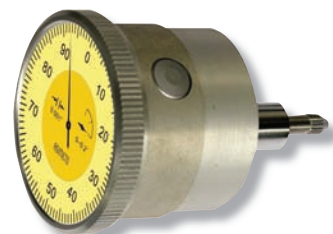
422 Series

FEATURES

- Graduation: .001" / 0.01mm
- Easy to read dial face with dial revolution counter
- Back plunger type dial indicators are designed to be used in fixtures and other applications that the dial reading is best viewed from an axis parallel to that of the indicator measuring axis

STANDARD ACCESSORIES

- Warranty card, Calibration certificate



7422111

SPECIFICATIONS

Range	Graduation	Accuracy	Range / Rev.	Dial Dia.	Stem diameter	Dial reading	Code No.
Inch							
.1"	.001"	±0.001"	.1"	1.6"	Ø3/8"	0-100	7422111
.2"	.001"	±0.001"	.1"	1.6"	Ø3/8"	0-100	7422121
Metric							
1mm	0.01mm	±0.015mm	1mm	58mm	Ø8mm	0-100	7422112
3mm	0.01mm	±0.015mm	1mm	58mm	Ø8mm	0-100	7422122
5mm	0.01mm	±0.02mm	1mm	58mm	Ø8mm	0-100	7422132

Back Plunger Dial Indicator Sets

422 Series

FEATURES

- Ideal for fast, accurate set-ups and measurements on lathes, milling machines, planers, shapers, etc. plus various inspection applications.
- Each set includes:
 - Test Indicator, fully jeweled
 - Universal clamp
 - Toolpost holder
 - 5/16" x 3" holding rod
 - 5/16" x 5" holding rod
 - #4-48 thread size
 - "G" clamp
- Lever attachment.
- Spherical, tapered and standard anvils are supplied.

SPECIFICATIONS

Range	Graduation	Accuracy	Reading	Code No.
0-0.1"	0.001"	±0.001"	0-50-0	7422151
0-0.1"	0.001"	±0.001"	0-100	7422153
0-2mm	0.01mm	±0.015mm	0-50-0	7422150
0-2mm	0.01mm	±0.015mm	0-100	7422152
Sets				
0-0.1"	0.001"	±0.001"	0-50-0	7422157
0-0.1"	0.001"	±0.001"	0-100	7422159
0-2mm	0.01mm	±0.015mm	0-50-0	7422156
0-2mm	0.01mm	±0.015mm	0-100	7422158





Ball Indicator Points

477 Series

FEATURES

- Precision contact points for use on standard travel dial indicators.
- Both tungsten carbide and ruby have extremely hard and smooth measuring surfaces.
- Fit all AGD Group 1, 2, 3 and 4 indicators.

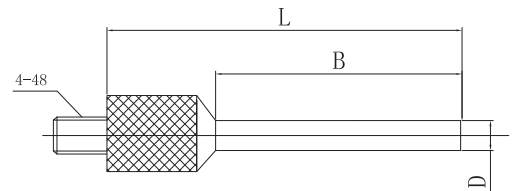


SPECIFICATIONS

Ball Diameter (mm)	Length	Body Diameter (in)	Ball Material	Code No. (4-48 Threads)	Code No. (M2.5 Threads)
2	1/4"	.187	Carbide	7477001	7477000
2	1/2"	.187	Carbide	7477011	7477010
2	3/4"	.187	Carbide	7477021	7477020
2	1	.187	Carbide	7477031	7477030
3	1/4"	.187	Carbide	7477041	7477040
3	1/2"	.187	Carbide	7477051	7477050
3	3/4"	.187	Carbide	7477061	7477060
3	1	.187	Carbide	7477071	7477070
4	1/4"	.187	Carbide	7477081	7477080
4	1/2"	.187	Carbide	7477091	7477090
4	3/4"	.187	Carbide	7477101	7477100
4	1	.187	Carbide	7477111	7477110
2	1/4"	.187	Ruby	7477121	7477120
2	1/2"	.187	Ruby	7477131	7477130
2	3/4"	.187	Ruby	7477141	7477140
2	1	.187	Ruby	7477151	7477150
3	1/4"	.187	Ruby	7477161	7477160
3	1/2"	.187	Ruby	7477171	7477170
3	3/4"	.187	Ruby	7477181	7477180
3	1	.187	Ruby	7477191	7477190
4	1/4"	.187	Ruby	7477201	7477200
4	1/2"	.187	Ruby	7477211	7477210
4	3/4"	.187	Ruby	7477221	7477220
4	1	.187	Ruby	7477231	7477230

Flat Carbide Needle Indicator Points

477 Series



SPECIFICATIONS

D	B	L	Code No.
.015	.120	.400	7477015
.031	.120	.400	7477025
.031	.500	.780	7477035
.062	.500	.800	7477045
.062	1.00	1.300	7477055
.078	1.00	1.300	7477065



Dial Indicator Points

477 Series

FEATURES

- Each point is carefully manufactured of Stainless steel.
- 4 - 48 Threads for use in AGD 1, 2, 3, 4 indicators.

SPECIFICATIONS

Type	Body Diameter (in)	Length (in)	Code No.
Flat	7/32	1/8	7477013
Flat	7/32	1	7477023
Flat	5/16	.175	7477033
Flat	7/32	.175	7477043
Flat	7/32	1/4	7477053
Flat	7/32	3/8	7477063
Flat	7/32	1/2	7477073
Flat	7/32	5/8	7477083
Flat	7/32	3/4	7477093
Flat	7/32	7/8	7477103
Flat	7/32	.895	7477113
Flat	7/32	1-1/4	7477123
Flat	7/32	1-1/2	7477133
Ball	7/32	7/32	7477143
Ball	7/32	13/32	7477153
Ball	7/32	5/8	7477163
Ball	7/32	13/16	7477173
Ball	7/32	7/8	7477183
Ball	3/16	1	7477193
Cone	7/32	1/2	7477203
Cone	7/32	5/8	7477213
Cone	7/32	3/4	7477223
Cone	7/32	7/8	7477233
Cone	7/32	1	7477243



Flat



Ball



Cone

Stem Indicator Points

477 Series



Bent Stem



Double Stem



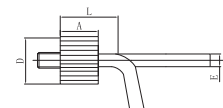
Single Stem

FEATURES

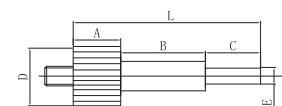
- Each point is carefully manufactured of Stainless steel.
- 4 - 48 Threads for use in AGD 1, 2, 3, 4 indicators.

SPECIFICATIONS

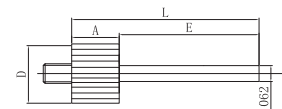
Type	D	A	E	L	C	B	Code No.
Bent Stem	7/32	5/16	1/16	7/16	N/A	N/A	7477017
Double Stem	7/32	5/16	1/64	.697	.118	.24	7477027
Double Stem	7/32	1/4	0.023	.960	.1	.585	7477037
Double Stem	7/32	1/4	0.023	.960	.235	.47	7477047
Single Stem	3/16	3/16	1-5/32	1-5/32	N/A	N/A	7477057



Bent Stem



Double Stem

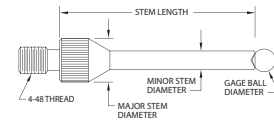


Single Stem



Ball Tip Dial Indicator Points

477 Series



FEATURES

- Grade 25 chrome alloy steel balls.
- Use only as an indicator point and not for sizing or gauging applications where side pressure would be present.

SPECIFICATIONS

Ball Diameter	Stem Length	Major Stem Diameter	Minor Stem Diameter	Thread	Code No.
0.0310"	0.600"	0.156"	0.025"	4-48	7477019
0.0460"	0.71"	0.156"	0.040"	4-48	7477029
0.062"	0.71"	0.156"	0.058"	4-48	7477039
0.0780"	0.83"	0.156"	0.058"	4-48	7477049
0.0938"	0.83"	0.156"	0.100"	4-48	7477059
0.1250"	0.80"	0.156"	0.100"	4-48	7477069
0.1562"	0.80"	0.156"	0.100"	4-48	7477079
0.1562"	0.80"	0.156"	0.156"	M2.5	7477089
0.1870"	0.375"	0.156"	0.218"	4-48	7477099
0.2188"	0.375"	0.156"	0.218"	4-48	7477109
0.2500"	0.250"	0.218"	0.218"	4-48	7477119
0.2812"	0.250"	0.218"	0.218"	4-48	7477129
0.3125"	0.250"	0.218"	0.218"	4-48	7477139
0.3438"	0.250"	0.218"	0.218"	4-48	7477149
0.3750"	0.250"	0.218"	0.218"	4-48	7477159
0.4060"	0.250"	0.218"	0.218"	4-48	7477169
0.4060"	0.250"	0.218"	0.218"	M2.5	7477179
0.4370"	0.250"	0.218"	0.218"	4-48	7477189
0.4680"	0.250"	0.218"	0.218"	4-48	7477199
0.5000"	0.250"	0.218"	0.218"	4-48	7477209
0.5310"	0.250"	0.218"	0.218"	4-48	7477219
0.5625"	0.250"	0.312"	0.312"	4-48	7477229
0.5937"	0.250"	0.312"	0.312"	4-48	7477239
0.6250"	0.250"	0.312"	0.312"	4-48	7477249
0.6250"	0.250"	0.312"	0.312"	M2.5	7477259
0.6560"	0.250"	0.312"	0.312"	4-48	7477269
0.687"	0.250"	0.312"	0.312"	4-48	7477279
0.7180"	0.250"	0.312"	0.312"	4-48	7477289
0.7500"	0.250"	0.312"	0.312"	4-48	7477299
0.7812"	0.250"	0.312"	0.312"	4-48	7477309
0.8125"	0.250"	0.312"	0.312"	4-48	7477319
0.8750"	0.250"	0.5"	0.5"	4-48	7477329
0.9375"	0.250"	0.5"	0.5"	4-48	7477339
1.0000"	0.250"	0.5"	0.5"	4-48	7477349
1.0625"	0.250"	0.5"	0.5"	4-48	7477359
1.1250"	0.250"	0.5"	0.5"	4-48	7477369
1.1785"	0.250"	0.5"	0.5"	4-48	7477379
1.2500"	0.250"	0.5"	0.5"	4-48	7477389



Dial Indicator Contact Point Set

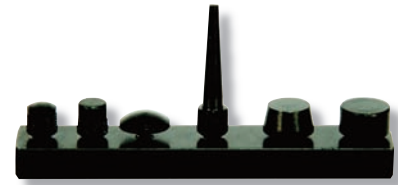
477 Series



7477108



7477148



7477068

FEATURES

- A top quality contact assortment for the professionally equipped dial indicator. Includes the following contacts, secured in a machined ring suitable for workbench or flat storage.
- Thread: 4-48.

SPECIFICATIONS

10 PCS Sets Code No.: 7477108		
Individual Description	Quantity	Code No.
3/8" CNC Qualified Roller Bearing	1	7477261
1/2" CNC Qualified Roller Bearing	1	7477271
3MM Ruby Tip x 1/2" long	1	7477281
Flat Steel Point 7/32" diameter X 1/4" long	1	7477291
Flat Steel Point 7/32" diameter X 1/2" long	1	7477301
Flat Steel Point 7/32" diameter X 3/4" long	1	7477311
Flat Steel Point 7/32" diameter X 1-1/4" long	1	7477321
Flat Contact 1/4" wide	1	7477331
Flat Contact 1/2" wide	1	7477341
.060 Steel Ball Tip, 5/16" long	1	7477351

6 PCS Sets Code No.: 7477068		
Individual Description	Quantity	Code No.
.220" Convex Point	1	7477601
.323" Convex Point	1	7477611
.394" Convex Point	1	7477621
.323" Flat Points	1	7477631
.394" Flat Points	1	7477641
.984" Taper Point	1	7477651

14 PCS Sets Code No.: 7477148		
Individual Description	Quantity	Code No.
3/8" Ground Flat Bottom Contact, 3/8" Long	1	7477401
1/2" Ground Flat Bottom Contact, 3/8" Long	1	7477411
1/2" Button Contact, Steel Black Oxide	1	7477421
3/8" Button Contact, Steel Black Oxide	1	7477431
1/2" Long 90 Degree Cone Point Contact, Steel Black Oxide	1	7477441
1/16" Ball Contact, 1/4" Long, Steel Black Oxide	1	7477451
5/8" Long Tapered Contact, Steel Black Oxide	1	7477461
Button Contact, 13/64" Dia X 5/32" Long, Steel Black Oxide	1	7477471
Shock Absorbing Contact Point	1	7477481
9/32" Long Cone Point, Steel Hard, Black Oxide	1	7477491
1" Long Polished Radius Point, Steel Hard Black Oxide	1	7477501
3/4" Long Polished Radius Point, Steel Black Oxide	1	7477511
1/2" Long Polished Radius Point, Steel Black Oxide	1	7477521
1/4" Long Polished Radius Point, Steel Black Oxide	1	7477531



Dial Indicator Contact Point Set

477 Series

FEATURES

- The most popular Indicator points, including Flat, Ball, Cone, and Stems.
- Fits all AGD 1,2,3 and 4 style drop indicators.
- All points have 4-48 Thread and are Steel with Black Oxide Plating.

SPECIFICATIONS

22 PCS Set Code No.: 7477228	
Individual Description	Quantity
Flat Point 7/32" Dia X .175 Long	1
Flat Point 7/32" Dia X .250 Long	1
Flat Point 7/32" Dia X .380 Long	1
Flat Point 7/32" Dia X .500 Long	1
Flat Point 7/32" Dia X .625 Long	1
Flat Point 7/32" Dia X .750 Long	1
Flat Point 7/32" Dia X .875 Long	1
Flat Point 7/32" Dia X .895 Long	1
Flat Point 7/32" Dia X 1.250 Long	1
Ball Point 7/32" Dia X .225 Long	1
Ball Point 7/32" Dia X .395 Long	1
Ball Point 7/32" Dia X .625 Long	1
Ball Point 7/32" Dia X .875 Long	1
Ball Point 7/32" Dia X .825 Long	1
Cone Point 7/32" Dia X .875 Long	1
Cone Point 7/32" Dia X .750 Long	1
Cone Point 7/32" Dia X .625 Long	1
Cone Point 7/32" Dia X .500 Long	1
Bent Stem Point 1/16" Dia X .312 Long	1
Double Stem Point 1/16" Dia X .935 Long	1
Stem Point 1/16" Dia X 1.350 Long	1
Double Stem Point 1/16" Dia X .955 Long	1



11 PCS Set Code No.: 7477118	
Individual Description	Quantity
Flat Point 7/32" Dia X .250 Long	1
Flat Point 7/32" Dia X .380 Long	1
Flat Point 7/32" Dia X .500 Long	1
Flat Point 7/32" Dia X .625 Long	1
Flat Point 7/32" Dia X .875 Long	1
Flat Point 7/32" Dia X 1.250 Long	1
Ball Point 7/32" Dia X .225 Long	1
Ball Point 7/32" Dia X .625 Long	1
Cone Point 7/32" Dia X .750 Long	1
Cone Point 7/32" Dia X .625 Long	1
Bent Stem Point 1/16" Dia X .312 Long	1



Adapters

477 Series

FEATURES

- Point is 7/32" diameter, 1/2" length
- Steel, soft and Black Oxide plated.

SPECIFICATIONS

Use	Description	Code No.
Metric to English Conversion Point	4-48 Internal Threads to M2.5 External Threads.	7477381
English to Metric Conversion Point	M2.5 Internal Threads to 4-48 External Threads.	7477391





Dial Indicator Extension Rods & Set

477 Series

SPECIFICATIONS

Inch		Metric		
Length	Thread	Code No.	Thread	Code No.
1/2"	4-48	7477107	M2.5x0.45	7477106
3/4"	4-48	7477117	M2.5x0.45	7477116
1"	4-48	7477127	M2.5x0.45	7477126
1-1/4"	4-48	7477137	M2.5x0.45	7477136
1-1/2"	4-48	7477147	M2.5x0.45	7477146
1-3/4"	4-48	7477157	M2.5x0.45	7477156
2"	4-48	7477167	M2.5x0.45	7477166
2-1/2"	4-48	7477177	M2.5x0.45	7477176
3"	4-48	7477187	M2.5x0.45	7477186
4"	4-48	7477197	M2.5x0.45	7477196
6"	4-48	7477207	M2.5x0.45	7477206
Sets				
each of 1", 2", 3"	4-48	7477038	M2.5x0.45	7477048



FEATURES

- Use to gain extra length.
- 7/32" diameter points.
- Stainless Steel.

Indicator Probe Holders

500 Series

FEATURES

- Low Carbon Steel, black oxide plated
- .014-.040 chucking capacity

SPECIFICATIONS

Thread	Code No.
4-48	7500171
M2.5	7500170





Dial Test Indicators

501 / 502 Series

FEATURES

- Graduation: Inch .0001"; .0005", Metric 0.002mm; 0.01mm
- Jeweled bearings
- Inch unit comes with Ø3/8" dovetail stems. Metric unit comes with Ø8mm dovetail stems
- Easy to read yellow face
- Horizontal models and Vertical models are available
- Carbide tipped contact point

STANDARD ACCESSORIES

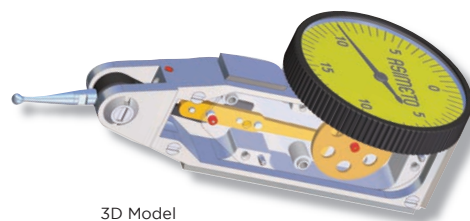
- Warranty card, Instruction manual, Calibration certificate



Vertical



Horizontal



3D Model

Full Set



Base Set



SPECIFICATIONS

					Φ32mm / Φ1.26" DIA.		Φ40mm / Φ1.57" DIA.	
Range	Resolution	Dial reading	Accuracy	Note	Code No.	Set Code No.	Code No.	Set Code No.
Inch								
.008"	.0001"	0-4-0	±.0001"	Horizontal	7501781	7501789	-	-
.03"	.0005"	0-15-0	±.0005"	Horizontal	7501731	7501739	-	-
.008"	.0001"	0-4-0	±.0001"	Vertical	7501785	-	-	-
.03"	.0005"	0-15-0	±.0005"	Vertical	7501735	-	-	-
.03"	.0005"	0-15-0	±.0005"	Horizontal / Long Point	7501737	-	-	-
Metric								
0.2mm	0.002mm	0-100-0	0.004mm	Horizontal	7501020	7501029	7502020	7502029
0.5mm	0.01mm	0-25-0	0.013mm	Horizontal	7501050	7501059	7502050	7502059
0.8mm	0.01mm	0-40-0	0.013mm	Horizontal	7501080	7501089	7502080	7502089
1.0mm	0.01mm	0-50-0	0.013mm	Horizontal	7501100	7501109	7502100	7502109
0.2mm	0.002mm	0-100-0	0.004mm	Vertical	7501024	-	7502024	-
0.5mm	0.01mm	0-25-0	0.013mm	Vertical	7501054	-	7502054	-
0.8mm	0.01mm	0-40-0	0.013mm	Vertical	7501084	-	7502084	-
1.0mm	0.01mm	0-50-0	0.013mm	Vertical	7501104	-	7502104	-

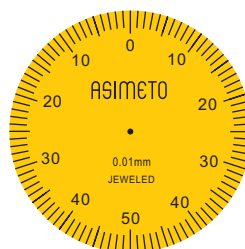


Dial Test Indicators

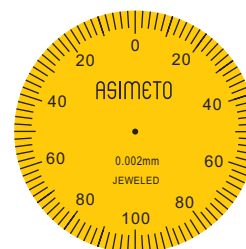
501 / 502 Series



7501080 7502080
7501084 7502084
7501089 7502089



7501100 7502100
7501104 7502104
7501109 7502109



7501020 7502020
7501024 7502024
7501029 7502029



7501050 7502050
7501054 7502054
7501059 7502059



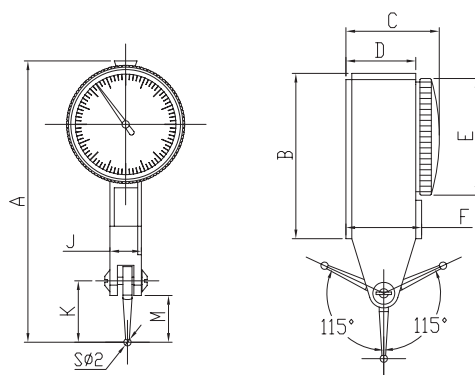
7501731 7501739
7501735
7501737



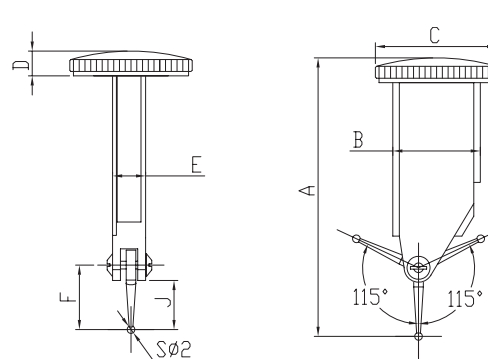
7501781
7501785
7501789

Dimension

Horizontal



Vertical



Grauation	A	B	C	D	E	F	J	K	M
	mm	mm	mm	mm	mm	mm	mm	mm	mm
Vertical									
0.002mm/.0001"	71	44	25	17	32	19	8.5	15	11
0.01mm/.0005"	78.6	45	27	19	32	21	8.5	18	14
Horizontal									
0.002mm/.0001"	69	23	32	8	8.5	15	11	-	-
0.01mm/.0005"	76	23	32	8	8.5	17	13	-	-

Remark: Refer to Page 114 for the detail length of contact point for different ranges test indicators



Extended Range Dial Test Indicators

503 / 504 Series

FEATURES

- Graduation:
Inch: .0001"/.0005"/.001"
Metric: 0.002mm/0.01mm
- Jeweled bearing design and resistant to magnetic fields
- Stem diameter: Inch: 3/8", Metric: 8mm
- Carbide contact point swivel 210 degrees
- Horizontal and vertical models are available
- 30 and 38mm dial diameters are available

STANDARD ACCESSORIES

- Wrench
- Warranty card, Instruction manual, Calibration certificate

7503061



7503561



7503161

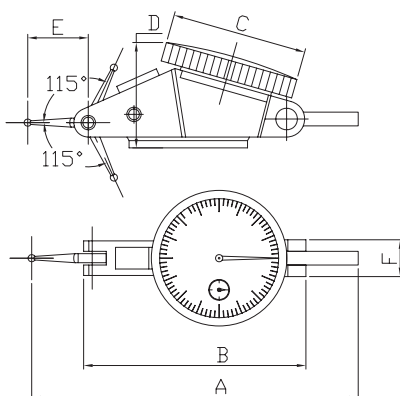


SPECIFICATIONS

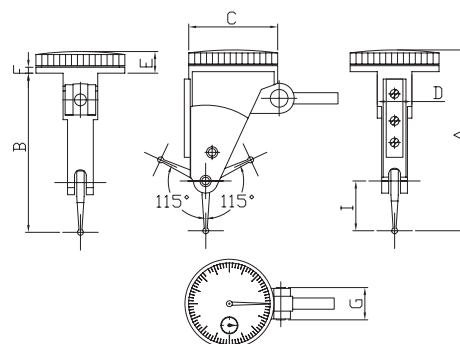
					Φ30mm / Φ1.18" Dia.	Φ38mm / Φ1.50" Dia.
Range	Graduation	Dial Reading	Accuracy	Note	Code No.	Code No.
Inch						
.060"	.001"	0-15-0	±.0012"	Horizontal	7503061	-
.060"	.0005"	0-15-0	±.0012"	Horizontal	7503561	7504561
.016"	.0001"	0-4-0	±.0005"	Horizontal	7503161	7504161
.060"	.001"	0-15-0	±.0012"	Vertical	7503063	-
.060"	.0005"	0-15-0	±.0012"	Vertical	7503563	7504563
.016"	.0001"	0-4-0	±.0005"	Vertical	-	7504163
Metric						
1.6mm	0.01mm	0-40-0	0.02mm	Horizontal	7503560	7504560
0.4mm	0.002mm	0-100-0	0.006mm	Horizontal	7503160	7504160
1.6mm	0.01mm	0-40-0	0.02mm	Vertical	7503562	7504562
0.4mm	0.002mm	0-100-0	0.006mm	Vertical	-	7504162

Dimension

Horizontal



Vertical



A	B	C	D	E	F
91mm	64mm	30/38mm	36mm	19.7mm	12.3mm

A	B	C	D	E	F	G
66mm	57.5mm	30/38mm	12mm	8.5mm	20mm	12.3mm



Extended Range Dial Test Indicator Sets

504 Series

SET #1

FEATURES

- Doubles the range of most of indicators
- Jeweled movement and easy to read dial
- Range: 0 – 0.060"
- Two dovetail stems and 3 contact points included: Stems: 3/8" & 5/32", Points: .04" (hardened steel), .08", .12" (tungsten carbide) x 5/8" long

STANDARD ACCESSORIES

- Calibration certificate, Instruction manual, Warranty card, Indicator, wrench
- Height Gauge Bar (1/4" x 1/2") w/Swivel Clamp w/5/32", 7/32", 1/4" holes
- Axial support w/3/8" Stem and Dovetail
- Reduction sleeve 3/8" to 5/32"
- Two dovetail Stems, 3/8" & 5/32"
- Three contact points: .04" (hardened steel), .08", .12" (Tungsten Carbide) x 5/8" long



7504811

SPECIFICATIONS

Range	Graduation	Dial Dia.	Accuracy	Indicator Code No.	Set Code No.
.060"	.0005"	1.5"	±0.0012"	7504561	7504811
.060"	.0005"	1.0"	±0.0012"	7503561	7504813
.060"	.001"	1.0"	±0.0012"	7503061	7504815

SET #2

FEATURES

- Doubles the range of most of indicators
- Jeweled movement and easy to read dial
- Supplied with Xtra-Mag magnetic base
- Range: 0 – 0.060", Graduation: 0.0005"
- Dial Reading 0-15-0, Dial Dia.: 1-5/16"
- 5/32" Stem, dovetail on front and back

STANDARD ACCESSORIES

- Calibration certificate, Instruction manual, Warranty card, Indicator, Wrench
- Xtra-Mag magnetic base with 2 universal ball sockets
- Micro-fine adjustment screw
- 3-9/16" extension arm
- Two dovetail Stems: 3/8" & 5/32"
- Three contact points: .04" (hardened steel), .08", .12" (Tungsten Carbide) x 5/8" long



7504821

SPECIFICATIONS

Range	Graduation	Dial Dia.	Accuracy	Indicator Code No.	Set Code No.
.060"	.0005"	1.5"	±0.0012"	7504561	7504821



Digital Test Indicator

505 Series

FEATURES

- Resolution: 0.001mm/0.0001"
- Inch/Metric conversion
- With Ø8mm and Ø4mm dovetail stems
- Positive and negative measurement
- Tolerance setting
- With Ruby tipped contact point

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate



SPECIFICATIONS

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
.02"	.0005"	0.5mm	0.009mm	7505010

Digital Radius Gauge

495 Series

FEATURES

- Resolution: 0.01mm/0.0005"
- Inch/Metric conversion
- With 5 Bases :10mm, 20mm, 30mm, 60mm, 100mm.

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate



SPECIFICATIONS

Range	Indicator	Accuracy	Code No.
R5-999.99mm	0-12.5mm/0.01mm	0.5mm	7495170



Float N Lock Positioners

605 Series

FEATURES

- It's an excellent dial indicator holder.
- All metal parts used.
- Precision angled bearings interface and lock the ball precisely with a small turn of the locking knob. Excellent rigidity factor.
- Self-compensating, no need to disassemble to re-establish tension (as with other designs).
- Right angle notch (for 90° positioning) can be swung to any point 360° and then locked.

SPECIFICATIONS

Description	Code No.
Mounting Bottom Holes 3/8"-16	7605700
Magnetic Base (90 lb. Pull) 3-1/4" x .435" High	7605710



Centering Indicators

469 Series

FEATURES

- Graduation: .0005" / 0.01mm
- Provides a simplified method of centering a work piece or fixture on horizontal for vertical machines, internal or external diameters. Face of indicator remains stationary in any desired position while the machine spindle rotates, leaving the operator with both hands free to accurately position the machine table
- Shank Dia.: $\varnothing 3/8"$ / $\varnothing 10$ mm
- Operating speed not to exceed 800 RPM
- Range:
Internal: 5/32" - 12" / 4 - 300mm
External: Up to 12" / 300mm

STANDARD ACCESSORIES

- 6 pcs Feeler Set, Center Locating Feeler, Warranty card, Instruction manual

SPECIFICATIONS

	Dial range	Accuracy	Code No.
Metric	0-3mm	0.005mm	7469006
Inch	0-.15"	.0002"	7469008

Parts

Description	Length	capacity	Code No.
6 pcs Feeler Set			7469011
ID Feeler	2"/50mm	4"/100mm	7469012
ID Feeler	4"/100mm	8"/200mm	7469013
ID Feeler	6"/150mm	12"/300mm	7469014
OD Feeler	2"/50mm	4"/100mm	7469015
OD Feeler	4"/100mm	8"/200mm	7469016
OD Feeler	6"/150mm	12"/300mm	7469017
Center Locating Feeler			7469018
Feeling Rod			7469019



7469006



Zero Set Holder

500 Series

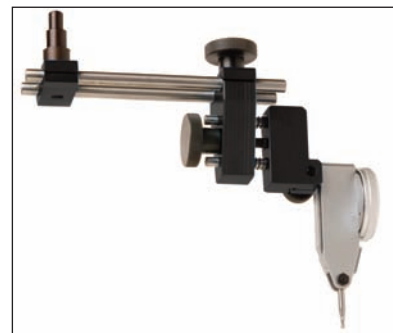
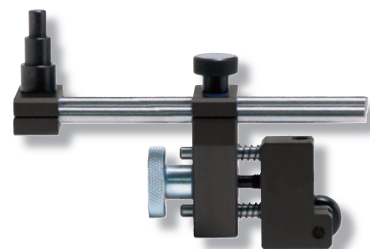
FEATURES

- The ZeroSet fits all dovetail equipped Indicators, and is used for checking Set-Ups.
- Checks the alignment of the centers of round materials in relation to the cutting head.
- Speeds set up operations enormously.
- Equipped with a spindle post with 1/4", 3/8", and 1/2" diameters, and has an effective measuring range of 3/8" thru 9".
- Test indicator is not included and is optional.

SPECIFICATIONS

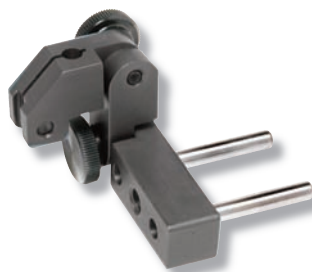
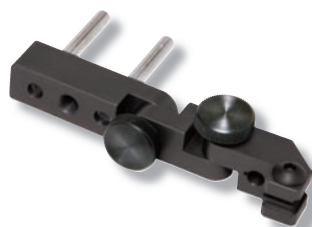
Code No.

7500150



Zero Set Universal Attachment

500 Series



FEATURES

- For use with any dovetail test indicator allowing a multitude of positioning possibilities in either direction
- Angles up to 90 degrees on either side.
- Allows for an infinite range of measurements over an extensive area.
- Test indicator is not included and is optional.

SPECIFICATIONS

Code No.

7500160





Axial Support Bracket

500 Series



FEATURES

- Used for mounting Indicators with dovetails or rods.
- 3/8" diameter body for secure clamping, with 5-1/2" overall reach.
- Bends in many directions

SPECIFICATIONS

Shank Dia.	Overall Length	Code No.
3/8"	5 1/4"	7500260



Double-Jointed Dovetail Holder

500 Series



FEATURES

- Brass Setting Nut allows orientation of the indicator in a full 360 degrees, with secure clamping.
- It also allows a fine adjustment for the indicator of .060 up and down.
- 3/8" diameter body for secure clamping
- 4-1/2" overall reach
- Fits all dovetail equipped Indicators

SPECIFICATIONS

Shank Dia.	Overall Length	Code No.
3/8"	4 3/4"	7500270



Surface Gauges

500 Series

FEATURES

- Base hardened.
- Bottom grooved for cylindrical work.
- Front end recessed for depressing spindle below base level.
- Knurled thumb screw in rocker for extra fine adjustment.
- Includes scriber.
- Universal Surface Gauge Includes clamp attachment (with 5/32" and 15/64" holes) for holding indicators, scribers, etc.

SPECIFICATIONS

Description	Spindles	Base dimensions (L x W x H)	Code No.
Small Toolmaker's Surface Gauge	4" and 7"	2-1/4 x 1-5/8 x 7/8"	7500280
Universal Surface Gauge	9" and 12"	3-1/8 x 2-3/8 x 1-1/8"	7500290





Spring-Loaded Tension Clamps

500 Series

FEATURES

- A complete range of sizes for all applications.
- Used for setting up and fixturing all types of instruments.
- Available with clamping ranges from 5/32" to 1/2".
- Overall length for all sizes is 1-3/4".
- Steel with Black Oxide finish.
- New Stainless Steel sizes also.



SPECIFICATIONS

Clamp Hole	End Hole	Code No.	
		Steel	Stainless Steel
5/16"	5/32"	7500300	7500400
5/16"	1/4"	7500301	7500401
3/8"	1/4"	7500302	7500402
1/4"	1/4"	7500303	7500403
5/16"	5/16"	7500304	7500404
3/8"	5/16"	7500305	7500405
3/8"	3/8"	7500306	7500406
1/2"	3/8"	7500307	7500407
1/2"	5/16"	7500308	7500408



Clamps with Dovetails

500 Series



FEATURES

- For any Indicator equipped with rods or dovetails.
- Used to fixture Indicators on Surface Gauge, Gauge Stands, Magnetic Bases, Height Gauge, Transfer Stands, and many others.
- Steel with Black Oxide finish.

SPECIFICATIONS

Mounting Hole	Code No.
3/8" and 7/32"	7500360
3/8 and 1/4	7500361
3/8 and 5/32	7500362
7/32 and 5/32	7500363
1/4 and 1/8 plus adjustable hole up to 1/4	7500364



7500361



7500362



7500360



7500364



7500363



Inside/Outside Diameter Groove Gauges

500 Series

FEATURES

- A quick way to inspect steps, counterbores, keyways and face O-ring grooves
- Available in 0-6" and 6-12" ranges
- Black Anodized Aluminum

SPECIFICATIONS

Range	Code No.
0-6"	7500370
6-12"	7500380



Dial Indicator Depth Bases

500 Series

FEATURES

- Ground flat and parallel on both top and bottom surfaces.
- Set screw in bases holds Indicator in place.
- Black Oxide plated.

SPECIFICATIONS

Base length	Dia. of hole	Code No.
65mm	3/8"	7500391
100mm	3/8"	7500393
65mm	8mm	7500390
100mm	8mm	7500392



Dial Holders

500 Series

FEATURES

- Measuring depth with a dial indicator

SPECIFICATIONS

Base length	Dia. of hole	Measuring rods QTY	Code No.
63.5mm	3/8"	10 PCS	7500901
100mm	3/8"	10 PCS	7500903
63.5mm	8mm	10 PCS	7500900
100mm	8mm	10 PCS	7500902



Universal Dovetail Indicator Holder 500 Series

FEATURES

- 1/4" shank diameter with 3" reach.
- This spring loaded holder locks in any of (4) 90 degree quadrants, and allows many variable angles of holding.
- Brass contact will not scar Indicator.
- Fits all dovetail equipped Indicators.
- Stainless Steel

SPECIFICATIONS

Code No.
7500410





Replacement Tips For TECLOCK Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.	
			Steel Ball	Ruby Ball
.038"	5/8"	M1.7 x 0.35	7478010	-
.078	5/8"	M1.7 x 0.35	7478020	-
2mm	5/8"	M1.7 x 0.35	-	7478100
.125	5/8"	M1.7 x 0.35	7478030	-
.038"	3/4	M1.7 x 0.35	7478040	-
.078	3/4	M1.7 x 0.35	7478050	-
2mm	3/4	M1.7 x 0.35	-	7478110
.125	3/4	M1.7 x 0.35	7478060	-
.038"	1-1/2	M1.7 x 0.35	7478070	-
.078	1-1/2	M1.7 x 0.35	7478080	-
2mm	1-1/2	M1.7 x 0.35	-	7478120
.125	1-1/2	M1.7 x 0.35	7478090	-



Replacement Tips For FOWLER Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.	
			Steel Ball	Carbide Ball
.080"	.416"	M1.6 x 0.35	7478011	-
.040	.500"	M1.6 x 0.35	-	7478061
.080	.500"	M1.6 x 0.35	-	7478071
.030	.768	M1.6 x 0.35	7478021	-
.040	.780	M1.6 x 0.35	-	7478081
.080	.780	M1.6 x 0.35	7478031	7478091
.120	.780	M1.6 x 0.35	-	7478101
.040	1.500	M1.6 x 0.35	-	7478111
.080	1.500	M1.6 x 0.35	-	7478121
.080	2.930	M1.6 x 0.35	7478041	-
.080	3.077	M1.6 x 0.35	7478051	-

Replacement Tips For GIROD Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.	
			Ruby Ball	Carbide Ball
.040"	1/2"	M1.6 x 0.35	-	7478231
.080	1/2	M1.6 x 0.35	-	7478241
.120	1/2	M1.6 x 0.35	-	7478251
.040	1-7/16	M1.6 x 0.35	-	7478261
.080	1-7/16	M1.6 x 0.35	-	7478271
.120	1-7/16	M1.6 x 0.35	-	7478281
.040	1-7/16	M1.4 x 0.3	-	7478291
.080	1-7/16	M1.4 x 0.3	-	7478301
.120	1-7/16	M1.4 x 0.3	-	7478311
2mm	1/2	M1.6 x 0.35	7478201	-
2mm	1-7/16	M1.6 x 0.35	7478211	-
2mm	1-1/2	M1.6 x 0.35	7478221	-



Replacement Tips For MITUTOYO Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.	
			Steel Ball	Carbide Ball
.040"	.500"	M1.7 x 0.35	-	7478152
.015	.606	M1.7 x 0.35	-	7478162
.031	.606	M1.7 x 0.35	7478012	7478172
.040	.606	M1.7 x 0.35	7478022	7478182
.062	.606	M1.7 x 0.35	7478032	7478192
.080	.606	M1.7 x 0.35	7478042	7478202
.930	.606	M1.7 x 0.35	-	7478212
.120	.606	M1.7 x 0.35	7478052	7478222
.015	.643	M1.7 x 0.35	-	7478232
.031	.643	M1.7 x 0.35	7478062	7478242
.040	.643	M1.7 x 0.35	7478072	7478252
.062	.643	M1.7 x 0.35	7478082	7478262
.080	.643	M1.7 x 0.35	7478092	7478272
.930	.643	M1.7 x 0.35	7478102	7478282
.120	.643	M1.7 x 0.35	7478112	7478292
.080	.670	M1.7 x 0.35	-	7478302
.040	.700	M1.7 x 0.35	7478122	7478312
.080	.700	M1.7 x 0.35	7478132	7478322
.120	.700	M1.7 x 0.35	7478142	-

Ball Diameter	Tip Length	Thread	Code No.	
			Steel Ball	Carbide Ball
.015	.900"	M1.7 x 0.35	-	7478502
.031	.900	M1.7 x 0.35	7478352	7478512
.040	.900	M1.7 x 0.35	7478362	7478522
.062	.900	M1.7 x 0.35	7478372	7478532
.080	.900	M1.7 x 0.35	7478382	7478542
.930	.900	M1.7 x 0.35	-	7478552
.120	.900	M1.7 x 0.35	7478392	7478562
.040	1	M1.7 x 0.35	7478402	-
.080	1	M1.7 x 0.35	7478412	7478572
.120	1	M1.7 x 0.35	7478422	-
.015	1.195	M1.7 x 0.35	-	7478582
.031	1.195	M1.7 x 0.35	7478432	7478592
.040	1.195	M1.7 x 0.35	7478442	7478602
.062	1.195	M1.7 x 0.35	7478452	7478612
.080	1.195	M1.7 x 0.35	7478462	-
.930	1.195	M1.7 x 0.35	-	7478622
.120	1.195	M1.7 x 0.35	-	7478632
.040	1.438	M1.7 x 0.35	-	7478642
.080	1.438	M1.7 x 0.35	-	7478652
.040	1.500	M1.7 x 0.35	7478472	-
.080	1.500	M1.7 x 0.35	7478482	-
.120	1.500	M1.7 x 0.35	7478492	7478662

Replacement Tips For STARRETT Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Ball Type	OEM Code No.	To Fit Starrett Model#	Code No.
1mm	13/16"	Carbide	PT23942	708, 708M, 709, 709M Series	7478401
2mm	13/16	Carbide	PT23914	708, 708M, 709, 709M Series	7478411
3mm	13/16	Carbide	PT23943	708, 708M, 709, 709M Series	7478421
2mm	5/8	Carbide	PT23953	708, 708M, 709, 709M Series	7478431
.032	5/8	Steel	PT23062	811, 811M Series	7478441
.032	5/8	Carbide	PT23062X	811, 811M Series	7478451
.078	5/8	Steel	PT22315	811, 811M Series	7478461
.078	5/8	Carbide	PT23953	811, 811M Series	7478471
.032	1-5/16	Steel	PT23064	811, 811M Series	7478481
.032	1-5/16	Carbide	PT23064X	811, 811M Series	7478491
.078	1-5/16	Steel	PT23011	811, 811M Series	7478501
.078	1-5/16	Carbide	PT23011X	811, 811M Series	7478511

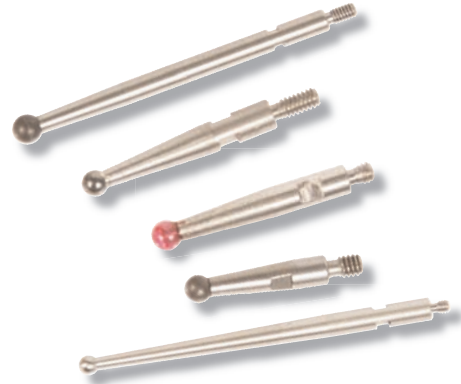


Replacement Tips For PEACOCK Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.		
			Steel Ball	Carbide Ball	Ruby Ball
.038"	3/8"	M1.7 x 0.35	7478601	-	-
.078	3/8	M1.7 x 0.35	7478611	-	-
.125	3/8	M1.7 x 0.35	7478621	-	-
.038"	3/4	M1.7 x 0.35	7478631	-	-
.078	3/4	M1.7 x 0.35	7478641	-	-
.125	3/4	M1.7 x 0.35	7478651	-	-
.038"	1-3/4	M1.7 x 0.35	7478661	-	-
.078	1-3/4	M1.7 x 0.35	7478671	-	-
.125	1-3/4	M1.7 x 0.35	7478681	-	-
.031	3/8	M1.7 x 0.35	-	7478691	-
.08	3/8	M1.7 x 0.35	-	7478701	-
2mm	3/8	M1.7 x 0.35	-	-	7478711



Replacement Tips For BROWN & SHARPE Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.		
			Steel Ball	Carbide Ball	Ruby Ball
.015"	1/2"	M1.4 x 0.3	-	7478240	-
.040	1/2	M1.4 x 0.3	7478200	7478250	-
.080	1/2	M1.4 x 0.3	7478210	7478260	-
2mm	1/2	M1.4 x 0.3	-	-	7478330
.120	1/2	M1.4 x 0.3	7478220	7478270	-
.080	11/16	M1.4 x 0.3	-	7478280	-
.015"	1-7/16	M1.4 x 0.3	-	7478290	-
.040	1-7/16	M1.4 x 0.3	-	7478300	-
.080	1-7/16	M1.4 x 0.3	7478230	7478310	-
2mm	1-7/16	M1.4 x 0.3	-	-	7478340
.120	1-7/16	M1.4 x 0.3	-	7478320	-

Replacement Tips For COMPAC Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.	
			Carbide Ball	Ruby Ball
.080"	.675"	M1.6 x 0.35	7478400	-
.080	.720	M1.6 x 0.35	7478410	-
2mm	.720	M1.6 x 0.35	-	7478440
.120	.720	M1.6 x 0.35	7478420	-
.080	1.44	M1.6 x 0.35	7478430	-
2mm	1.44	M1.6 x 0.35	-	7478450

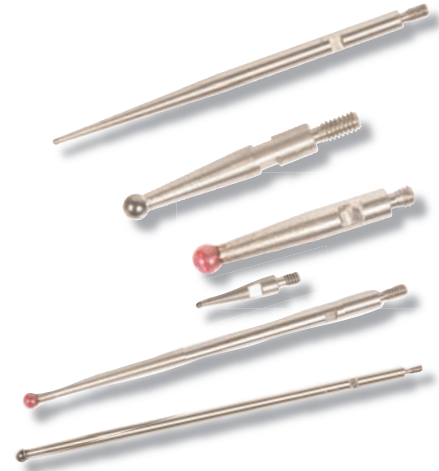


Replacement Tips For TESA Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.		
			Steel Ball	Carbide Ball	Ruby Ball
.015"	1/2"	M1.4 x 0.3	-	7478103	-
.040	1/2	M1.4 x 0.3	7478013	7478113	-
.080	1/2	M1.4 x 0.3	-	7478123	-
2mm	1/2	M1.4 x 0.3	-	-	7478183
.090	1/2	M1.4 x 0.3	7478023	-	-
.120	1/2	M1.4 x 0.3	7478033	7478133	-
.015"	1-1/2	M1.4 x 0.3	-	7478143	-
.031	1-1/2	M1.4 x 0.3	7478043	-	-
.040	1-1/2	M1.4 x 0.3	7478053	7478153	-
.060	1-1/2	M1.4 x 0.3	7478063	-	-
.080	1-1/2	M1.4 x 0.3	7478073	7478163	-
2mm	1-1/2	M1.4 x 0.3	-	-	7478193
.090	1-1/2	M1.4 x 0.3	7478083	-	-
.120	1-1/2	M1.4 x 0.3	7478093	7478173	-



Replacement Tips For INTERAPID Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.		
			Steel Ball	Carbide Ball	Ruby Ball
.015"	11/16"	M1.7 x 0.35	-	7478373	-
.031	11/16"	M1.7 x 0.35	7478253	7478383	-
.060	11/16"	M1.7 x 0.35	7478263	7478393	-
.080	11/16"	M1.7 x 0.35	7478273	7478403	-
2mm	11/16"	M1.7 x 0.35	-	-	7478633
.093	11/16"	M1.7 x 0.35	-	7478413	-
0.8mm	18mm	M1.7 x 0.35	7478283	7478423	-
1.5mm	18mm	M1.7 x 0.35	7478293	7478433	-
2mm	18mm	M1.7 x 0.35	7478303	7478443	-
.015"	13/16"	M1.7 x 0.35	-	7478453	-
.031	13/16"	M1.7 x 0.35	7478313	7478463	-
.060	13/16"	M1.7 x 0.35	7478323	7478473	-
.080	13/16"	M1.7 x 0.35	7478333	7478483	-
2mm	13/16"	M1.7 x 0.35	-	-	7478643
0.8mm	21mm	M1.7 x 0.35	7478343	7478493	-
1.5mm	21mm	M1.7 x 0.35	7478353	7478503	-
2mm	21mm	M1.7 x 0.35	7478363	7478513	-
.031	1.450"	M1.7 x 0.35	-	7478523	-
.080	1.450"	M1.7 x 0.35	-	7478533	-
0.8mm	37mm	M1.7 x 0.35	-	7478543	-
2mm	37mm	M1.7 x 0.35	-	7478553	-
.015"	1-3/4	M1.7 x 0.35	-	7478563	-
.031	1-3/4	M1.7 x 0.35	-	7478573	-
.080	1-3/4	M1.7 x 0.35	-	7478583	-
2mm	1-3/4	M1.7 x 0.35	-	-	7478653
0.8mm	45mm	M1.7 x 0.35	-	7478593	-
2mm	45mm	M1.7 x 0.35	-	7478603	-
.080	2-3/4	M1.7 x 0.35	-	7478613	-
.100	2-3/4	M1.7 x 0.35	-	7478623	-



Optional Accessories for ASIMETO Test Indicators

500 Series

Contact Points



Indicator Range	Tipp Dia.	Length	Steel	Carbide	Ruby
			Code No.	Code No.	Code No.
1mm/0.01mm	Φ1mm	20.95mm	7500111	-	-
	Φ2mm	21.45mm	7500121	7500122	7500123
	Φ3mm	21.95mm	7500131	7500132	7500133
0.8mm/0.01mm	Φ1mm	16.8mm	7500511	-	-
	Φ2mm	17.3mm	7500521	7500522	7500523
0.5mm/0.01mm	Φ3mm	17.8mm	7500531	7500532	7500533
0.03"/0.0005"	Φ1mm	15.9mm	7500611	-	-
	Φ2mm	16.4mm	7500621	7500622	7500623
	Φ3mm	16.9mm	7500631	7500632	7500633
0.2mm/0.002mm	Φ1mm	14.2mm	7500711	-	-
	Φ2mm	14.7mm	7500721	7500722	7500723
0.008"/0.0001"	Φ3mm	15.2mm	7500731	7500732	7500733
1.6mm/0.01mm	Φ1mm	21.3mm	7500811	-	-
0.4mm/0.002mm	Φ2mm	21.8mm	7500821	7500822	7500823
0.06"/0.0005"	Φ3mm	22.3mm	7500831	7500832	7500833

Dovetail Stem Sets



Knurled Clamping Ring

Size	Code No.
3/8"	7500311
5/32"	7500313
8mm	7500310
6mm	7500312

Swivel Clamps



Description	Code No.
For 3/8" & 5/32" dia. Dovetail Stem	7500251
For 8mm & 6mm dia. Dovetail Stem	7500252

Holding Bars



7500210



7500211

Size	Code No.
.25x.5", Length: 2"	7500211
.25x.5", Length: 4"	7500213
9x9mm, Length: 50mm	7500210
9x9mm, Length: 100mm	7500212
10x12mm, Length: 50mm	7500214
10x12mm, Length: 100mm	7500216

Centering Holders

- Allows large diameter cylinders or holes to be centered

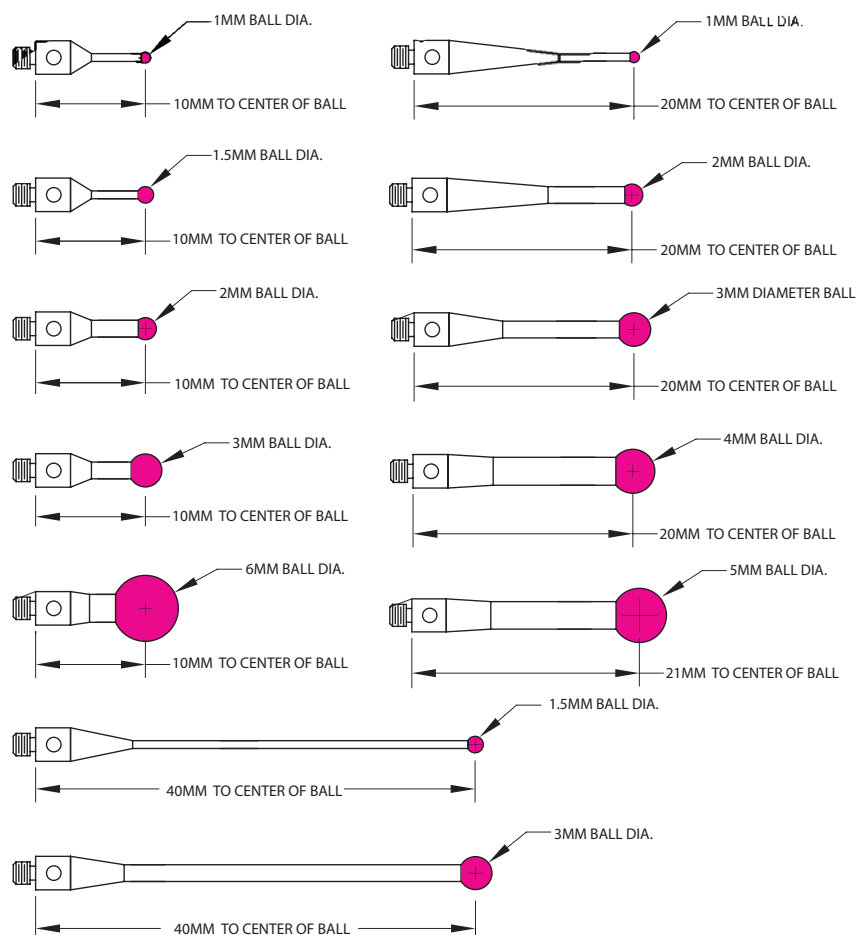


Description	Code No.
8mm Dia. Stem	7500350
.25" Dia. Stem	7500351



CMM Styli - M2 Thread

478 Series



SPECIFICATIONS

Ball Size	Length	Renishaw Functional Equivalent	Carbide Probes	SPI	Q Mark	Code No.
1mm Ruby	10mm		265-1R	12-620-1	TM2-1010	7478016
1.5mm Ruby	10mm	PS24R A/5000/7802	-	-	TM2-1510	7478026
2mm Ruby	10mm	PS8R A/5000/7807	-	14-987-2	TM2-2010	7478036
3mm Ruby	10mm	PS1R A/5000/3604	-	14-988-0	TM2-3010	7478046
6mm Ruby	10mm	PS14R A/5000/4156	265-6R	12-625-0	TM2-6010	7478056
8mm Ruby	12mm	PS15R A/5000/4158	265-8R	12-626-8	TM2-8015	7478066
1mm Ruby	20mm	PS23R A/5000/7808	266-1R	12-621-9	TM2-1020-07	7478076
1.5mm Ruby	20mm			-		7478086
2mm Ruby	20mm	PS2R A/5000/3603	266-2R	12-622-7	TM2-2020	7478096
3mm Ruby	20mm	PS16R A/5000/4160	266-3R	12-623-5	TM2-3020	7478106
4mm Ruby	20mm	PS17R A/5000/4161	266-4R	12-624-3	TM2-4020	7478116
5mm Ruby	21mm			-		7478126
1.5mm Ruby	40mm			-		7478136
3mm Ruby	40mm			-		7478146



CMM Styli - M3 Thread

478 Series

Ball Size	Length	Renishaw Functional Equivalent	Carbide Probes	Q Mark	Code No.
1mm Ruby	10mm				7478206
6mm Ruby	10mm				7478216
8mm Ruby	12mm				7478226
1mm Ruby	20mm	PS1-9R A/5000/3551	261-1R	TM3-1020	7478236
2mm Ruby	20mm	PS1-10R A/5000/3552	261-2R	TM3-2020	7478246
3mm Ruby	20mm	PS1-11R A/5000/3553	261-3R	TM3-3020	7478256
4mm Ruby	20mm	PS1-12R A/5000/7606	261-4R	TM3-4020	7478266
5mm Ruby	21mm	PS1-13R A/5000/7630	-	TM3-5020	7478276

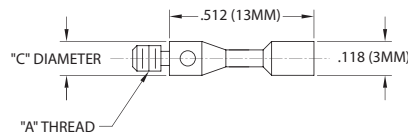
CMM Styli - M4 Thread

478 Series

Ball Size	Length	Renishaw Functional Equivalent	Carbide Probes	Code No.
1mm Ruby	10mm			7478306
6mm Ruby	10mm			7478316
8mm Ruby	12mm			7478326
1mm Ruby	20mm	PS2-3R A/5000/7545	840-1R	7478336
2mm Ruby	20mm	PS2-4R A/5000/7547	840-2R	7478346
3mm Ruby	20mm	PS2-5R A/5000/7549	840-3R	7478356
4mm Ruby	20mm	PS2-6R A/5000/7551	840-4R	7478366
5mm Ruby	21mm			7478376

Cylinder Styli

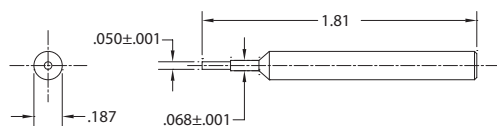
478 Series



Thread	Cylinder Diameter	Styli Length	Base Diameter (C)	Code No.
M2 x 0.4	3mm	13mm	3mm	7478506
M3 x 0.5	3mm	13mm	3mm	7478516
M4 x 0.5	3mm	13mm	4.75mm	7478526

CMM Styli Universal Wrench

478 Series



Code No.

7478556



CMM Extensions - M2 Thread

478 Series

- Stainless Steel

Length	Diameter	Renishaw Functional Equivalent	Carbide Probes	SPI	Q Mark	Code No.
5mm	3mm					7478606
10mm	3mm	SE4 M/5000/3647	265-E10	12-631-8	VM2-10	7478616
20mm	3mm	SE5 M/5000/3648	265-E20	12-632-6	VM2-20	7478626
30mm	3mm	SE6 M/5000/4162	265-E30	12-633-4	VM2-30	7478636
35mm	3mm					7478646
40mm	3mm	SE18 M/5000/7779	265-E40	14-983-1	VM2-40	7478656
60mm	3mm			14-984-9		7478666



CMM Extensions - M3 Thread

478 Series

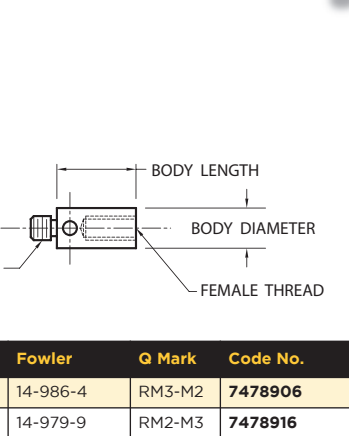
Length	Diameter	Renishaw Functional Equivalent	Carbide Probes	Q Mark	Code No.
10mm	4mm	SE8 M/5000/7633	261-E10	VM3-10	7478706
20mm	4mm	SE2 M/5000/3592	261-E20	VM3-20	7478716
30mm	4mm		261-E30		7478726
35mm	4mm	M/5000/3593	261-E35	VM3-35	7478736
40mm	4mm	M/5000/3593			7478746
60mm	4mm				7478756



CMM Extensions - M4 Thread

478 Series

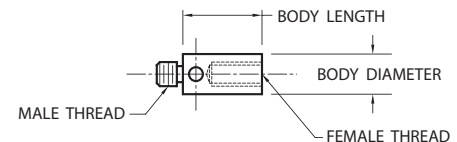
Length	Diameter	Renishaw Functional Equivalent	Carbide Probes	Q Mark	Code No.
10mm	6.3mm		823-E10	VM4-10	7478806
20mm	6.3mm		823-E20	VM4-20	7478816
30mm	6.3mm		823-E30	VM4-30	7478826
35mm	6.3mm				7478836
40mm	6.3mm				7478846
60mm	6.3mm				7478856



CMM Adaptor Tips

478 Series

- Converts your probe head to a different thread size, allowing multiple uses of CMM Styli or accessories.

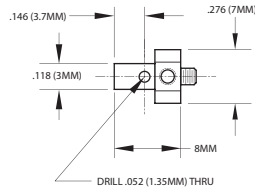


Male Thread	Female Thread	Body Dia.	Body Length	Renishaw Functional Equivalent	Carbide Probes	Fowler	Q Mark	Code No.
M3 x 0.5	M2 x 0.4	4mm	5mm	SA3 M/5000/4163	261-AD5	14-986-4	RM3-M2	7478906
M2 x 0.4	M3 x 0.5	4mm	10mm	SA2 M/5000/4164	265-AD7	14-979-9	RM2-M3	7478916
M4 x 0.7	M2 x 0.4	6.3mm	5mm	SA5 M/5000/6622	399	14-980-7		7478926
M2 x 0.4	M4 x 0.7	6.3mm	15mm			14-981-5	RM4-M2	7478936
M4 x 0.7	M3 x 0.5	6.3mm	10mm	SA6 M/5000/6714		14-982-3		7478946



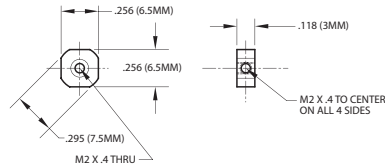
CMM Crossheads

478 Series



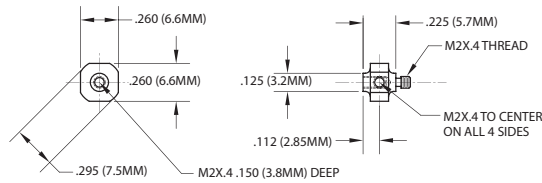
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Code No.

7478576

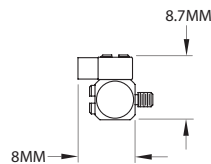
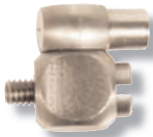


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CMM Styli Knuckle

478 Series

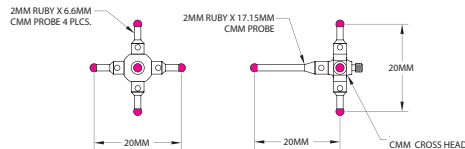


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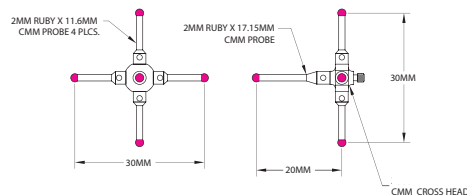
CMM Star Styli

478 Series



6 PCS Set Code No.: 7478536

Kit contains:	QTY	Description
CMM Crosshead	1	6.6mm x 6.6mm x 5.7mm, M2 x 0.4
Ruby Ball Probe	1	2mm x 17.2mm
Ruby Ball Probe	4	2mm x 6.6mm



6 PCS Set Code No.: 7473546

Kit contains:	QTY	Description
CMM Crosshead	1	6.6mm x 6.6mm x 5.7mm, M2 x 0.4
Ruby Ball Probe	1	2mm x 17.2mm
Ruby Ball Probe	4	2mm x 11.6mm



Dial Gauge Stands

670 Series



7670010



7670110

FEATURES

- Both column and metal stage are hardened and precision lapped
- With Ø8mm H7 clamping hole

SPECIFICATIONS

Size	Flatness	Pillar	Verticality	Measuring range	Code No.
Ø50mm	0.002mm	207 x Ø35mm	0.03mm	100mm	7670010
60 x 68mm	0.002mm	207 x Ø35mm	0.03mm	100mm	7670110
98 x 115mm	0.005mm	235 x Ø35mm	0.05mm	100mm	7670120

Precision Granite Stands

670 Series



7670310



7670220

FEATURES

- With adjustable arm
- Granite measuring surface and base
- With Ø8mm H7 clamping hole

SPECIFICATIONS

Size	Flatness	Pillar	Verticality	Measuring range	Code No.
Smooth Column					
150 x 150 x 50	0.002mm	300 x Ø30mm	0.03mm	250mm	7670310
150 x 230 x 50	0.002mm	300 x Ø30mm	0.03mm	250mm	7670320
230 x 300 x 90	0.002mm	300 x Ø30mm	0.03mm	250mm	7670330
Screw Column					
200 x 150 x 50	0.002mm	300 x Ø30mm	0.03mm	250mm	7670220
300 x 200 x 50	0.002mm	300 x Ø30mm	0.03mm	250mm	7670230



Articulating Arm Magnetic Bases

602 Series

FEATURES

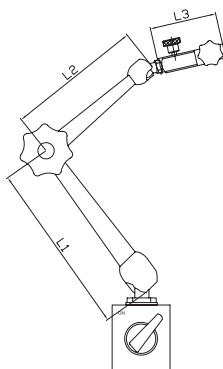
- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- Arm has 3 articulating joints that can be locked with the single hand knob
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position



7602021

SPECIFICATIONS

Magnetic Power	Magnetic Base	Height	Dia. of Hole	Working Angle	Code No.
	(L X W X H)		Slot		
30 kg	36x30x35mm	195mm	Φ3/8"/Φ8mm	150°	7602011
80 kg	60x50x55mm	350mm	Φ3/8"/ 8mm	150°	7602021
80 kg	60x50x55mm	440mm	Φ3/8"/ 8mm	150°	7602031
130 kg	117x50x55mm	690mm	Φ3/8"/ 8mm	150°	7602051



Height	L1	L2	L3
mm	mm	mm	mm
235	65	55	60
335	110	110	60
440	150	140	60
690	345	230	60

Magnetic Bases

600 Series

Magnetic Power	Dimension	Thread size	Code No.
60kg	60x50x55mm	M8	7600011



7600011



Magnetic Bases

601 Series

FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position
- #601-02-0/1 with Fine Adjustment



7601011

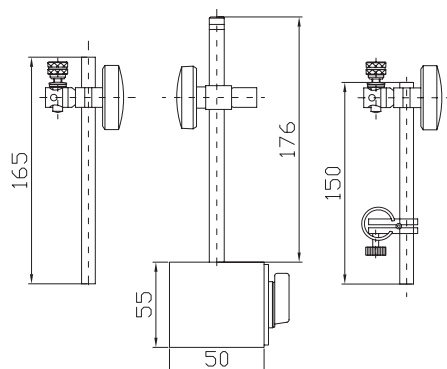


7601021

7SPECIFICATIONS

Magnetic Power	Magnetic Base	Main Stem	Sub Pole		Remark		Inch	Metric	
	(L X W X H)	Dia.	Length	Dia.	Length	Dia. of hole		Code No.	Code No.
80 kg	60x50x55mm	Φ12mm	176mm	Φ10mm	165mm	Φ3/8"/Φ8mm		7601011	7601010
80 kg	60x50x55mm	Φ12mm	176mm	Φ10mm	150mm	Φ3/8"/Φ8mm	with a fine adjustment	7601021	7601020

Dimension



Permanent Magnetic Base

601 Series

FEATURES

- With permanent magnetic base, without On/Off switch
- Dovetail groove included
- Packaging: Cardboard box

SPECIFICATIONS

Magnetic Power	Main body	Main Stem Length	Dia. of Hole		Code No.
			Hole	Slot	
17 kg	Ø30x25mm	85mm	Φ8/ Φ6mm	6mm	7601120



7601120



Hydraulic Magnetic Bases

603 Series

FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position



SPECIFICATIONS

Magnetic Power	Magnetic Base	Height	Dia. of Hole	Working Angle	Code No.
	(L X W X H)		Slot		
80 kg	60x50x55mm	385mm	Φ3/8"/Φ8mm	150°	7603010
100 kg	73x50x55mm	685mm	Φ3/8" / 8mm	150°	7603020

Forced Locking Magnetic Bases

604 Series

FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- New design, Holding more solid and reliable, more stable performance, higher accuracy
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position



SPECIFICATIONS

Magnetic Power	Magnetic Base	Main Stem	Sub Pole		Dia. of Hole		
	(L X W X H)	Dia.	Length	Dia.	Length	Slot	Code No.
80 kg	60x50x55mm	Φ12mm	180mm	Φ10mm	160mm	Φ3/8" / Φ8mm	7604010
80 kg	60x50x55mm	Φ14mm	203mm	Φ12mm	165mm	Φ3/8" / Φ8mm	7604020
100 kg	73x50x55mm	Φ16mm	250mm	Φ16mm	200mm	Φ3/8" / Φ8mm	7604030
100 kg	117x50x55mm	Φ18mm	350mm	Φ16mm	200mm	Φ3/8" / Φ8mm	7604040



Articulating Arm Magnetic Bases

602 Series

FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position



7602310

SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	Height	Dia. of Hole		Working Angle	Code No.
				Slot		
80 kg	60x50x55mm	390mm	Φ3/8" / 8mm	6.5mm	150°	7602310

Flexible Arm Magnetic Bases

601 Series

FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The multi-flex arm is turned rigid when the lever is activated
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position
- 132 lb / 60kg magnetic pull

SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	Main Stem Length	Dia. of Hole	Code No.
60 kg	60x50x55mm	360mm	Φ8mm	7601110
60 kg	60x50x55mm	360mm	Φ3/8"	7601111



7601110

Bore Gauges

129	Dial Bore Gauges
130	Extensions for Dial Bore Gauges
130	Large Diameter Dial Bore Gauges
131	Digital Bore Gauges
131	Bore Gauge Zero Checker
133	Telescoping Gauges

Dial Bore Gauges

483 / 484 Series

FEATURES

- Moveable probe pin with carbide ball
- .24-.4"/6-10mm range is with fixed anvils
- .4-.74"/10-18mm range is with plate guide and fixed anvils
- .7-1.4"/18-35mm range is with canister and fixed anvils
- Over 1.4"/35mm range is with wheel guide and inserting anvils

STANDARD ACCESSORIES

- Refer to the table
- Warranty card, Instruction manual, Calibration certificate



.24-.4"/6-10mm



.4-.74"/10-18mm
Plate guide



.7-1.4"/18-35mm
Canister guide



Over 1.4"/35mm
Wheel guide

SPECIFICATIONS

Range	Graduation	Dial Travel	Number of Anvils	Number of Spacers	Number of Sub-anvils	Probe Depth	Code No.
Inch							
.24-.4"	.0001"	.05" (AGD1)	9	-	-	2"	7483111
.4-.7"	.0001"	.05" (AGD1)	9	1	-	4"	7483121
.7-1.5"	.0001"	.05" (AGD2)	10	2	-	6"	7483211
1.4-2.4"	.0001"	.05" (AGD2)	6	4	-	6"	7483221
2-6"	.0001"	.05" (AGD2)	11	4	1	6"	7483311
6-10"	.0001"	.05" (AGD2)	6	6	1	10"	7483321
10-16"	.0001"	.05" (AGD2)	6	6	2	16"	7483331
Metric							
6-10mm	0.001mm	1mm (AGD1)	9	-	-	40mm	7483110
10-18mm	0.001mm	1mm (AGD1)	9	1	-	100mm	7483120
18-35mm	0.001mm	1mm (AGD2)	9	1	-	150mm	7483210
35-50mm	0.001mm	1mm (AGD2)	4	4	-	150mm	7483220
50-160mm	0.001mm	1mm (AGD2)	12	4	1	150mm	7483310
160-250mm	0.001mm	1mm (AGD2)	5	5	1	250mm	7483320
250-400mm	0.001mm	1mm (AGD2)	5	5	2	400mm	7483330
Metric							
6-10mm	0.01mm	3mm (AGD1)	9	-	-	40mm	7484110
10-18mm	0.01mm	3mm (AGD1)	9	1	-	100mm	7484120
18-35mm	0.01mm	3mm (AGD2)	9	2	-	150mm	7484210
35-50mm	0.01mm	3mm (AGD2)	4	4	-	150mm	7484220
50-160mm	0.01mm	3mm (AGD2)	12	4	1	150mm	7484310
160-250mm	0.01mm	3mm (AGD2)	5	5	1	250mm	7484320
250-400mm	0.01mm	3mm (AGD2)	5	5	2	400mm	7484330
Set							
Range	Graduation	Individual Hols	Indicator		Code No.		
18-160mm	0.01mm	18-35mm, 35-50mm, 50-160mm	7402032	3mmx0.01mm	7484638		
18-160mm	0.001mm	18-35mm, 35-50mm, 50-160mm	7402012	1mmx0.001mm	7483638		



7484220

Extensions for Dial Bore Gauges

483 / 484 Series

FEATURES

- Increases the depth that measurements can be taken with the standard type of dial bore gauge

SPECIFICATIONS

Range	Graduation	Dial Travel	Depth / Code No.			
Inch			19.7"	39.4"	59.1"	78.7"
1.4"-2.4"	.0005"	.25"	7483223	7483225	7483227	7483229
2.0"-6.0"	.0005"	.25"	7483313	7483315	7483317	7483319
6.0"-10.0"	.0005"	.25"	7483323	7483325	7483327	7483329
10.0"-16.0"	.0005"	.25"	7483333	7483335	7483337	7483339
Metric			500mm	1000mm	1500mm	2000mm
35-50mm	0.01mm	3mm	7484222	7484224	7484226	7484228
50-160mm	0.01mm	3mm	7484312	7484314	7484316	7484318
160-250mm	0.01mm	3mm	7484322	7484324	7484326	7484328
250-400mm	0.01mm	3mm	7484332	7484334	7484336	7484338

Large Diameter Dial Bore Gauges

484 Series



FEATURES

- Carbide tipped contact point, wheel guide
- Equipped with dial indicator #7402102

SPECIFICATIONS

Range	Graduation	Dial Travel	Rod Travel	Number of Anvil	Number of Spacers	Number of Sub-anvil	Probe Depth	Code No.
18-50mm	0.01mm	10mm	1.5mm	8	2	1	150mm	7484410
30-100mm	0.01mm	10mm	1.8mm	5	3	2	150mm	7484420
50-100mm	0.01mm	10mm	4mm	10	2	-	200mm	7484430
100-160mm	0.01mm	10mm	4mm	7	4	-	300mm	7484440
100-300mm	0.01mm	10mm	3mm	6	4	2	250mm	7484450
160-250mm	0.01mm	10mm	4mm	5	4	2	400mm	7484460
250-450mm	0.01mm	10mm	6mm	5	4	2	500mm	7484470
450-700mm	0.01mm	10mm	8mm	5	4	4	500mm	7484480
700-1000mm	0.01mm	10mm	8mm	5	4	5	500mm	7484490

Digital Bore Gauges

485 Series

FEATURES

- Resolution: .00005" / 0.002mm
- Dynamic carbide contact point
- Digital gauges has analog sweep display to determine minimum reading
- .24-.4"/6-10mm range is with fixed anvils
- .4-.74"/10-18mm range is with plate guide and fixed anvils
- .7-1.4"/18-35mm range is with canister and fixed anvils
- Over 1.4"/35mm range is with wheel guide and inserting anvils

STANDARD ACCESSORIES

- Refer to the table
- Warranty card, Instruction manual, Calibration certificate



SPECIFICATIONS

Metric Range	Number of Anvils	Number of Spacers	Number of Sub-anvils	Metric Range	Number of Anvils	Number of Spacers	Number of Sub-anvils	Probe Depth	Inch Code No.	Metric Code No.
.24"-.4"	9	-	-	6-10mm	9	-	-	2"/40mm	7485111	7485110
.4-.7"	9	1	-	10-18mm	9	1	-	4"/100mm	7485121	7485120
.7-1.5"	10	2	-	18-35mm	9	2	-	4"/100mm	7485211	7485210
1.4-2.4"	6	3	-	35-50mm	4	4	-	6"/150mm	7485221	7485220
2-6"	11	3	1	50-160mm	12	4	1	6"/150mm	7485311	7485310
6-10"	6	5	1	160-250mm	5	5	1	16"/400mm	7485321	7485320
10-16"	6	5	2	250-400mm	5	5	2	16"/400mm	7485331	7485330

Bore Gauge Zero Checker

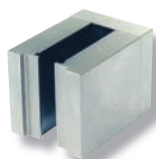
483 Series

FEATURES

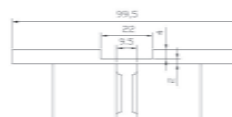
- The Bore Gauge Zero Checker allows easy zero adjustment of dial bore gauges with ranges of 18mm (.7") through 400mm (16") using gauge blocks
- High Accuracy and stable performance
- Interchangeable Supporting Blocks is for setting of various bore gauge

SPECIFICATIONS

Description	Code No.
18mm - 400mm / .7" - 16"	7483002
Interchangeable Supporting Blocks	7483500

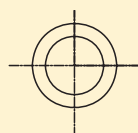


7483500

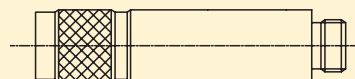


7483002

Accessories



Washers



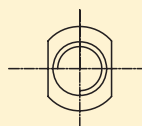
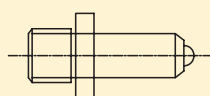
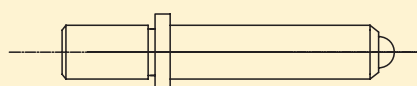
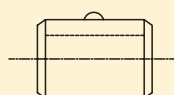
Sub-Anvils

Metric Washers and Sub-Anvils

Washers (mm)							Sub-Anvils (mm)		
Range	Qty.	#1	#2	#3	#4	#5	Qty.	#1	#2
6-10mm									
10-18mm	1	0.5							
18-35mm	2	0.5	1						
35-50mm	4	0.5	1	2	3				
50-160mm	4	0.5	1	2	3		1	55	
160-250mm	5	0.5	1	2	3	6	1	50	
250-400mm	5	0.5	1	2	3	6	2	50	100

Inch Washers and Sub-Anvils

Washer Dimensions (in)								Extension Rod Dimensions (in)		
Range	Washer Qty.	#1	#2	#3	#4	#5	#6	Extension Rod Qty.	#1	#2
.24-.4"										
.4-.7"	1	0.02								
.7-1.5"	2	0.02	0.04							
1.4-2.4"	4	0.02	0.04	0.08	0.12					
2-6"	4	0.02	0.04	0.08	0.12			1	2	
6-10"	6	0.02	0.04	0.08	0.1	0.2	0.3	1	2	
10-16"	6	0.02	0.04	0.08	0.1	0.2	0.3	2	2	4



Adjustment Anvils

Metric Adjustment Anvils

Range	Anvils Range (mm)												
	Qty.	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
6-10mm	9	6	6.5	7	7.5	8	8.5	9	9.5	10			
10-18mm	9	10	11	12	13	14	15	16	17	18			
18-35mm	9	18	20	22	24	26	28	30	32	34			
35-50mm	4	35	40	45	50								
50-160mm	12	50	55	60	65	70	75	80	85	90	95	100	105
160-250mm	5	160	170	180	190	200							
250-400mm	5	250	260	270	280	290							

Inch Adjustment Anvils

Range	Anvils Range (in)											
	Qty.	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11
.24-.4"	9	0.24	0.26	0.28	0.3	0.32	0.34	0.36	0.38	0.4		
.4-.7"	9	0.4	0.44	0.48	0.52	0.58	0.62	0.64	0.68	0.7		
.7-1.5"	10	0.7	0.78	0.86	0.94	1.02	1.1	1.18	1.26	1.34	1.42	
1.4-2.4"	6	1.4	1.6	1.8	2	2.2	2.4					
2-6"	11	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	4
6-10"	6	6	6.4	6.8	7.2	7.6	8					
10-16"	6	10	10.4	10.8	11.2	11.6	12					

Telescoping Gauges

487 Series

FEATURES

- Spring-loaded plunger expands within the bore (or groove), allowing determination of the internal diameter
- With a knurled clamp

7487869

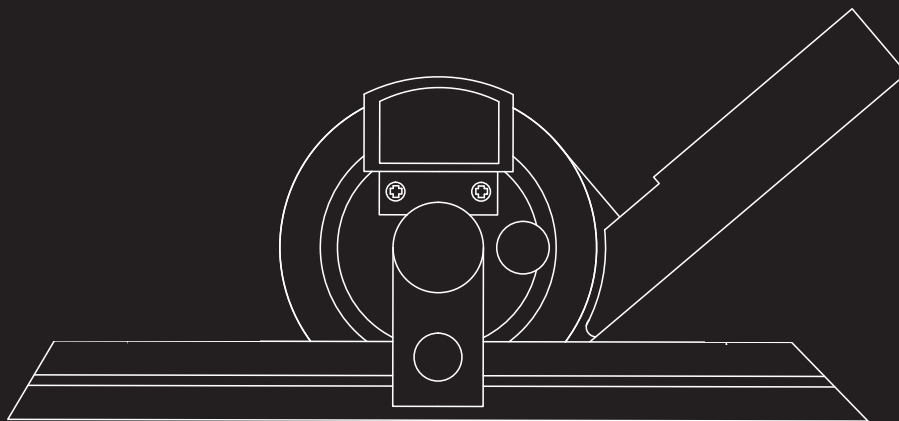


SPECIFICATIONS

	Inch	Metric				
Model	Range	Range	Depth	Code No.	Depth	Code No.
A	5/16" - 1/2"	8-12.7mm	4.2"/107mm	7487011	12"/300mm	7487013
B	1/2" - 3/4"	12.7-19mm	4.4"/112mm	7487021	12"/300mm	7487023
C	3/4" - 1-1/4"	19-32mm	4.4"/112mm	7487031	12"/300mm	7487033
D	1-1/4" - 2-1/8"	32-54mm	5.85"/150mm	7487041	12"/300mm	7487043
E	2-1/8" - 3-1/2"	54-90mm	5.85"/150mm	7487051	12"/300mm	7487053
F	3-1/2" - 6"	90-150mm	5.85"/150mm	7487061	12"/300mm	7487063
SETS						
6 pcs (A, B, C, D, E, F)	5/16"-6"	8-150mm		7487869		
5 pcs (B, C, D, E, F)	1/2"-6"	12.7-150mm		7487859		
4 pcs (A, B, C, D)	5/16"-2-1/8"	8-54mm		7487849		

Other Gauges

135	Protractors	146	Magnetic Base Protractor
135	Universal Bevel Protractors	147	Round Bar Center Finder
136	Dial Protractor	147	Wiggler Set
136	Digital Protractor	147	Pin Punch Set in Wood Case
137	Depth and Angle Gauges	148	Angle Gauges
137	Combination Square Sets	148	Angle Blocks
138	Steel Squares	149	Thread Pitch Gauges
138	Granite Squares	149	Center Gauge
139	Straight Knife Edges	150	Radius Gauges
139	5-pcs Square Sets	150	Thickness Gauges
139	Die Makers Square Set	151	Spring Dividers and Calipers
140	Drill Point Gauges	151	Ultra Precision Wavy Parallel Set
140	Adjustable Hook Rules	152	Digital Protractors- Level Type
140	Multi-Use Rule and Gauge	152	Precision Levels
141	Rigid Steel Rules	153	High Precision Metric Parallels
142	Flexible Steel Rules	153	Precision Parallel Sets
143	Pocket Rules	154	Granite Surface Plates
143	1-2-3 ,2-3-4 & 2-4-6 Blocks	155	Granite Plate Stands
143	1-2-3 Block Set	155	Precision Surface Plate Cleaner
144	4-Way V-Blocks	155	Optical Flats and Parallels
144	High Precision Adjustable V-Blocks	156	Electronic Edge Finders
144	Ball Bearing V-Blocks	156	Edge Finders
145	Cast Vee Blocks	157	Automatic Weld Size Welding Gauge
145	V-Blocks with Clamps	157	Bridge Cam Welding Gauge
145	CNC Tool Setting Gauge	157	Universal Sliding Bevel
146	7 PCS Jack Screw Set	158	American Standard & Wire Gauges
146	4 PCS Machinist's Jack Set	158	Countersink Angle Gauge
		158	Sine Bar Riser Kit





Protractors 490 Series

FEATURES

- Graduation: 1°
- Base and scale are stainless steel
- 150mm/6" arm, Ø85mm protractor
- Accuracy: ±5 min

SPECIFICATIONS

Description	Code No.
Protractor Resolution: 0°-90°, 90°-180°, 180°-90°, 90°-0°	7490011
Semi-circle: 0°-180°, 180°-0°	7490012



Universal Bevel Protractors 490 Series

FEATURES

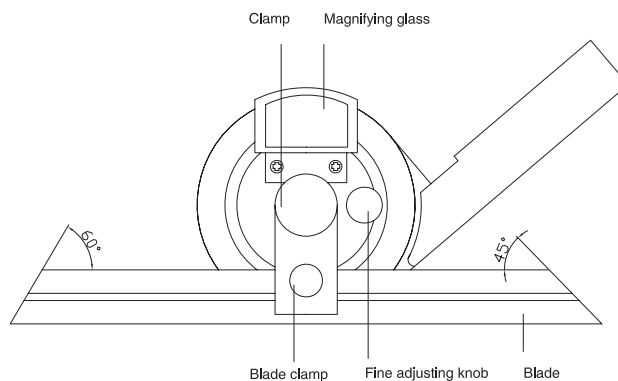
- Dial Graduation: 1°, Vernier: 5'
- Designed to provide precise angular measurements
- Magnifying glass is provided for easier reading
- Can be used with a standard height gauge to provide angular measurement from reference plate
- Accuracy: ±5 min

STANDARD ACCESSORIES

- Base, Blades, Bevel Blades, Warranty card, Instruction manual

SPECIFICATIONS

Description	Code No.
With 150mm/6" blades	7490061
With 200mm/8" blades	7490062
With 300mm/12" blades	7490063
With three blades: 150mm/6", 200mm/8", 300mm/12"	7490060



Dial Protractor

490 Series

FEATURES

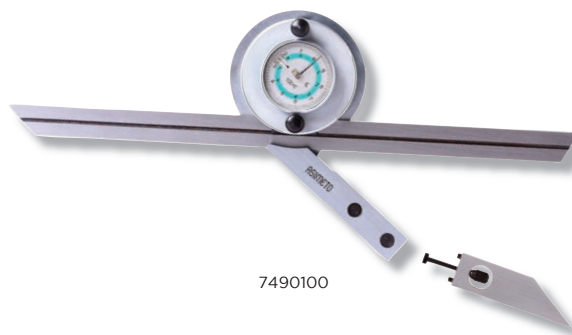
- Measuring Range: 0-360°, Graduation: 5'
- Designed with analog readout and fine adjustment to provide precise angular measurements
- Can be used with a standard height gauge to provide angular measurement from reference plate
- Accuracy: ± 5 min

STANDARD ACCESSORIES

- Base, Blades (3 pcs), Bevel Blade
- Warranty card, Instruction manual

SPECIFICATIONS

Blades Included	Code No.
150mm/6", 200mm/8", 300mm/12"	7490100



7490100

Digital Protractor

490 Series

FEATURES

- Resolution: 30"/0.008°
- Measuring Range: 0-360°
- Range selection: 1 x 360°, 2 x 180°, 4 x 90°
- Dual reading LCD display arc minutes / decimal degrees
- With fine adjustment
- Preset function
- Accuracy: ± 5 min

STANDARD ACCESSORIES

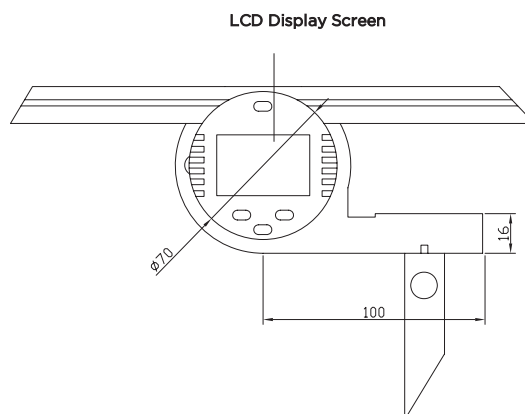
- Base, Blades (3 pcs), Bevel Blade, Setting Square
- Warranty card, Instruction manual

SPECIFICATIONS

Blades Included	Code No.
150mm/6", 200mm/8", 300mm/12"	7490150



7490150





Depth and Angle Gauges

607 Series

FEATURES

- Hardened steel head with 2-1/2" base.
- Angles: 30°, 45°, 60° both sides.
- Stainless steel blade: 6" x 7/32" with 32nds and 64ths graduations.
- Rod: Non-graduated, for holes under 3/32" diameter.



SPECIFICATIONS

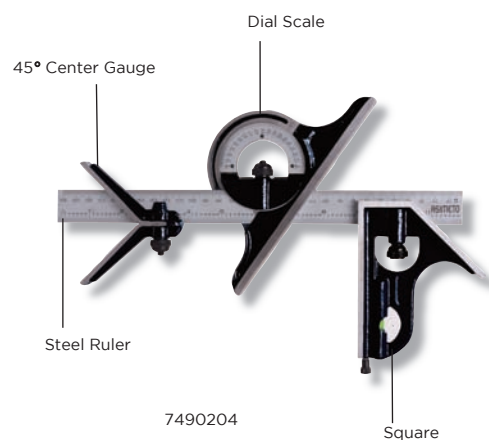
Range	Code No.
Head With Blade	7607580
Head With Blade and Rod	7607581

Combination Square Sets

490 Series

FEATURES

- Graduation:
 - Protractor: 1°
 - Blade: 1mm, 64ths, 32nds, 1/2mm
- Blades are hardened and tempered for durability
- Square head has level and pointed attachment for hand scribing
- Micro-fine blade graduations
- Gauge heads are hardened cast finished in baked enamel with exception of the measurement faces



SPECIFICATIONS

Description	Blade Length	Code No.
4 pcs Set	12"/300mm	7490204
3 pcs Set (Blades, Squares, 45° Center Gauges)	12"/300mm	7490203
3 pcs Set (Blades, Squares, 45° Center Gauges)	6"/150mm	7490206
2 pcs Set (Blades, Squares)	12"/300mm	7490202
2 pcs Set (Blades, Dial Scale)	12"/300mm	7490205
4 pcs Set (With 4R ruler)	12"/300mm	7490214
4 pcs Set (With 16R ruler)	12"/300mm	7490224



Steel Squares

639 Series

FEATURES

- Made of precision ground hardened stainless steel
- Accuracy according to DIN875

SPECIFICATIONS

Regular Type			Bevel Type		
Inch Size	Metric Size	Squareness	Code No.	Squareness	Code No.
General Type Squares					
2" x 1.6"	50 x 40mm	0	7639214	00	7639210
3" x 2"	75 x 50mm	0	7639224	00	7639220
4" x 2.75"	100 x 70mm	0	7639234	00	7639230
6" x 4"	150 x 100mm	0	7639244	00	7639240
8" x 5"	200 x 130mm	0	7639254	00	7639250
10" x 6.5"	250 x 160mm	0	7639264	00	7639260
12" x 8"	300 x 200mm	0	7639274	00	7639270
16" x 10"	400 x 265mm	1	7639284	-	-
20" x 12"	500 x 330mm	1	7639294	-	-
Squares with Wider Base, "Engineers Square"					
2" x 1.6"	50 x 40mm	0	7639314	00	7639310
3" x 2"	75 x 50mm	0	7639324	00	7639320
4" x 2.75"	100 x 70mm	0	7639334	00	7639330
6" x 4"	150 x 100mm	0	7639344	00	7639340
8" x 5"	200 x 130mm	0	7639354	00	7639350
10" x 6.5"	250 x 165mm	0	7639364	00	7639360
12" x 8"	300 x 200mm	0	7639374	00	7639370
Squares with Extra Base Regular Type					
3" x 2"	75 x 50mm	0	7639530		
4" x 2.75"	100 x 70mm	0	7639540		
6" x 4"	150 x 100mm	0	7639550		
8" x 5"	200 x 130mm	0	7639560		
10" x 6.5"	250 x 160mm	0	7639570		
12" x 8"	300 x 200mm	0	7639580		
16" x 10"	400 x 265mm	1	7639590		
20" x 12"	500 x 330mm	1	7639600		



7639230



7639244



7639334

Granite Squares

639 Series

FEATURES

- Made of wear resistant black granite
- The flatness of the datum surfaces is according to DIN876/00
- Squareness is according to DIN875

SPECIFICATIONS

Just Size	Thickness	Accuracy	Code No.
200 x 150mm	50mm	00	7639010
300 x 200mm	50mm	00	7639020
400 x 250mm	50mm	00	7639030
500 x 300mm	60mm	00	7639040
600 x 400mm	70mm	00	7639050
800 x 500mm	80mm	00	7639060
1000 x 600mm	100mm	00	7639070



7639030



Straight Knife Edges

639 Series

FEATURES

- Made of hardened stainless steel
- The design incorporates a precise 45 degree cross section allowing for visual inspection of surfaces
- The back edge is fitted with a thermal plastic grip to reduce the effects of heat transfer
- Straightness according to DIN874/00

SPECIFICATIONS

Inch Size	Metric Size	Squareness	Code No.
3"	75mm	00	7639710
4"	100mm	00	7639720
5"	125mm	00	7639730
6"	150mm	00	7639740
8"	200mm	00	7639750
12"	300mm	00	7639760
16"	400mm	00	7639770
20"	500mm	00	7639780



7639730

5-pcs Square Set

639 Series

Code No.	7639008
Description	Qty.
Straight edge 100 mm	1
Precision square 75 x 50 mm	1
Precision square 40 x 28 mm	1
Precision square 25 x 20 mm	1
Scriber 9 x 9 x 60 mm	1



7639008

Die Makers Square Set

606 Series

FEATURES

- Use for precise miniature layouts.
- Hardened and ground with very fine finish extremely accurate.
- Set includes: 3 hardened beveled edge squares; 3/4", 1-1/4", 2-3/8" plus 1-1/2" triangular straight edge with handle complete in a fitted case.
- Straight edge sides are machined in the middle for clearance of burs and dirt.

Specifications of Squares: Beam	Blade
1-15/16"	2-15/16"
1-1/8"	1-9/16"
3/4"	1"

SPECIFICATIONS

Description	Included	Code No.
Diemaker's Square Set	3 hardened beveled edge squares 1PCS, Squares 3PCS	7606670



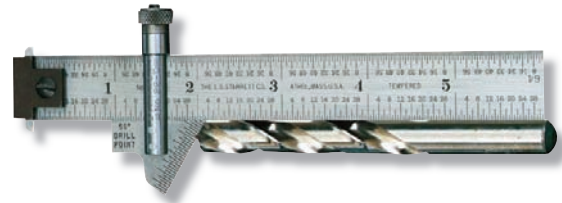


Drill Point Gauge

605 Series

FEATURES

- To check drills with 118° point angles.
- Sliding Head graduated in 32nds to verify equal length of cutting edges.
- Rule graduated in 64ths and 32nds on one side; 16ths and 8ths on reverse side.
- Removable end clip.
- Head only fits steel rules 3/4" wide x 0.040" thick.



SPECIFICATIONS

Description	Code No.
Sliding Head with 6" Rule	7605610
Sliding Head Only	7605611

Adjustable Hook Rules

605 Series

FEATURES

- Satin Chrome Finish
- Tool steel, hardened and tempered.
- Accuracy meets federal specifications.
- Hard chrome finish - no glare.
- Furnished with adjustable hook.
- Thickness: 0.040".
- Micro-fine graduations:
 - 4R - 8ths, 16ths, 32nds, 64ths
 - 16R - 32nds, 64ths, 50ths, 100ths
 - E/M - 32nds, 64ths, 1/2 mm, 1 mm



SPECIFICATIONS

Range	Type	Width	Code No.
6"	4R	3/4"	7605620
6"	16R	3/4"	7605621
6"	E/M	3/4"	7605622
12"	4R	1"	7605623
12"	16R	1"	7605624
12"	E/M	1"	7605625

Multi-Use Rule and Gauge

605 Series

FEATURES

- 4" Stainless steel quick reading 64ths and metric scale.
- Drill point gauge for checking 59° angle drill points.
- Square and bevel protractor for measuring and layout.
- Center finder for locating center of shafts and circles.
- Circle divider - up to 9 equal parts: Divides circles into sectors, regular polygons, and polygrams.
- Tap drill table shows popular size taps with drill sizes for National threads.

SPECIFICATIONS

Description	Code No.
Multi-Use Rule and Gauge	7605630





Rigid Steel Rules

606 Series

FEATURES

- Made of hardened and tempered steel.
- Durable finishes for rust and wear durability.
- Satin Chrome: Precisely etched, then black filled.
- Easy View: Precisely etched, then white filled.
- Meets federal accuracy specifications.
- Micro-fine graduations:
 - 3R - 32nds, 64ths, 10ths, 50ths
 - 4R - 8ths, 16ths, 32nds, 64ths
 - 5R - 32nds, 64ths, 10ths, 100ths
 - 16R - 32nds, 64ths, 50ths, 100ths
 - E/M - 32nd, 64ths, 1/2 mm, 1 mm
 - D/M - 10ths, 100ths, 1/2 mm, 1 mm
 - M - 1/2 mm, 1 mm, 1/2 mm, 1 mm



SPECIFICATIONS

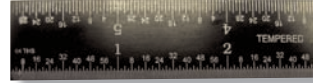
Range	Type	Width	Thickness	Code No.	
				Chrome Finish	Black Chrome Finish
6"	3R	3/4"	0.04"	7606100	7606200
6"	4R	3/4"	0.04"	7606101	7606201
6"	5R	3/4"	0.04"	7606102	7606202
6"	16R	3/4"	0.04"	7606103	7606203
6"/150mm	E/M	3/4"	0.04"	7606104	7606204
6"/150mm	D/M	3/4"	0.04"	7606105	-
150mm	M	3/4"	0.04"	7606106	-
12"	3R	1.0"	0.04"	7606110	7606210
12"	4R	1.0"	0.04"	7606111	7606211
12"	5R	1.0"	0.04"	7606112	7606212
12"	16R	1.0"	0.04"	7606113	7606213
12"/300mm	E/M	1.0"	0.04"	7606114	7606214
12"/300mm	D/M	1.0"	0.04"	7606115	-
300mm	M	1.0"	0.04"	7606116	-
18"	3R	1-1/8"	0.04"	7606120	7606220
18"	4R	1-1/8"	0.04"	7606121	7606221
18"	5R	1-1/8"	0.04"	7606122	7606222
18"	16R	1-1/8"	0.04"	7606123	7606223
18"/450mm	E/M	1-1/8"	0.04"	7606124	7606224
18"/450mm	D/M	1-1/8"	0.04"	7606125	-
450mm	M	1-1/8"	0.04"	7606126	-
24"	3R	1-1/8"	0.04"	7606130	7606230
24"	4R	1-1/8"	0.04"	7606131	7606231
24"	5R	1-1/8"	0.04"	7606132	7606232
24"	16R	1-1/8"	0.04"	7606133	7606233
24"/600mm	E/M	1-1/8"	0.04"	7606134	-
24"/600mm	D/M	1-1/8"	0.04"	7606135	-
600mm	M	1-1/8"	0.04"	7606136	-
36"	4R	1-1/4"	0.04"	7606140	-
36"	5R	1-1/4"	0.04"	7606141	-
36"	16R	1-1/4"	0.04"	7606142	-
36"/900mm	E/M	1-1/4"	0.04"	7606143	-
900mm	M	1-1/4"	0.04"	7606144	-
48"	4R	1-1/4"	0.04"	7606150	-
48"/1200mm	E/M	1-1/4"	0.04"	7606151	-

Flexible Steel Rules

606 Series

FEATURES

- Made of hardened and tempered steel.
 - Durable finishes for rust and wear durability.
 - Satin Chrome: Precisely etched, then black filled.
 - Easy View: Precisely etched, then white filled.
 - Meets federal accuracy specifications.
- Graduations:
 - 3R - 32nds, 64ths, 10ths, 50ths
 - 4R - 8ths, 16ths, 32nds, 64ths
 - 5R - 32nds, 64ths, 10ths, 100ths
 - 16R - 32nds, 64ths, 50ths, 100ths
 - E/M - 32nd, 64ths, 1/2 mm, 1 mm
 - *D/M - 10ths, 50ths, 1/2 mm, 1 mm
 - †D/M - 10ths, 100ths, 1/2 mm, 1 mm
 - M - 1/2 mm, 1 mm, 1/2 mm, 1 mm



SPECIFICATIONS

Range	Type	Width	Thickness	Code No.	
				Chrome Finish	Black Chrome Finish
6"	3R	1/2"	0.02"	7606400	7606700
6"	4R	1/2"	0.02"	7606401	7606701
6"	5R	1/2"	0.02"	7606402	7606702
6"	16R	1/2"	0.02"	7606403	7606703
6"/150mm	E/M	1/2"	0.02"	7606404	7606704
6"/150mm	†D/M	1/2"	0.02"	7606405	7606705
6"/150mm	*D/M	1/2"	0.02"	7606406	-
150mm	M	1/2"	0.02"	7606407	-
12"	3R	1/2"	0.02"	7606410	-
12"	4R	1/2"	0.02"	7606411	7606711
12"	5R	1/2"	0.02"	7606412	7606712
12"	16R	1/2"	0.02"	7606413	7606713
12"/300mm	E/M	1/2"	0.02"	7606414	7606714
12"/300mm	*D/M	1/2"	0.02"	7606415	-
12"/300mm	†D/M	1/2"	0.02"	7606416	-
300mm	M	1/2"	0.02"	7606417	-
18"	3R	3/4"	0.02"	7606420	7606720
18"	4R	3/4"	0.02"	7606421	7606721
18"	5R	3/4"	0.02"	7606422	7606722
18"	16R	3/4"	0.02"	7606423	7606723
18"/450mm	E/M	3/4"	0.02"	7606424	7606724
18"/450mm	†D/M	3/4"	0.02"	7606425	-
450mm	M	3/4"	0.02"	7606426	-
24"	3R	3/4"	0.02"	7606430	7606730
24"	4R	3/4"	0.02"	7606431	7606731
24"	5R	3/4"	0.02"	7606432	7606732
24"	16R	3/4"	0.02"	7606433	7606733
24"/600mm	E/M	3/4"	0.02"	7606434	7606734
24"/600mm	†D/M	3/4"	0.02"	7606435	-
600mm	M	3/4"	0.02"	7606436	-
36"	4R	3/4"	0.02"	7606440	-
36"	5R	3/4"	0.02"	7606441	-
36"	16R	3/4"	0.02"	7606442	-
36"/900mm	E/M	3/4"	0.02"	7606443	-
900mm	M	3/4"	0.02"	7606444	-
48"	4R	3/4"	0.02"	7606450	-
48"	5R	3/4"	0.02"	7606451	-
48"	16R	3/4"	0.02"	7606452	-
48"/1200mm	E/M	3/4"	0.02"	7606453	-
1200mm	M	3/4"	0.02"	7606454	-
72"	4R	1"	0.02"	7606460	-
72"	16R	1"	0.02"	7606461	-



Flexible Steel Rules

606 Series

FEATURES

- Made of hardened tool steel



SPECIFICATIONS

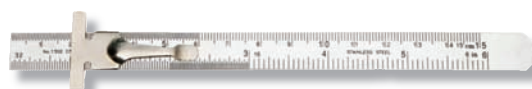
Inch		Metric		Width	Thickness	Code No.
Range	Graduation	Range	Graduation			
12"	1/16 ths	300mm	1mm	25mm	1mm	7606010
24"	1/16 ths	600mm	1mm	30mm	1.2mm	7606020
40"	1/16 ths	1000mm	1mm	32mm	1.5mm	7606030
60"	1/16 ths	1500mm	1mm	38mm	1.8mm	7606040
80"	1/16 ths	2000mm	1mm	40mm	2.0mm	7606050

Pocket Rules

607 Series

FEATURES

- Stainless Steel
- Hardened and tempered.
- Includes pocket clip.
- Rule graduated in 64ths and 32nds on one side; 16ths and 8ths on reverse side.
- Removable end clip.
- Head only fits steel rules 3/4" wide x 0.040" thick.
- Micro-fine graduations:
10R/D - 32nds, 64ths, Decimal equivalent chart on opposite face
10R - 32nds, 64ths
Eng./Met./D - 64ths, mm, Decimal equivalent chart on opposite face



SPECIFICATIONS

Range	Type	Width	Code No.
6"	10R/D	1/2"	7607570
6"	10R	1/4"	7607571
6"	E/M/D	1/2"	7607572

1-2-3, 2-3-4 & 2-4-6 Blocks

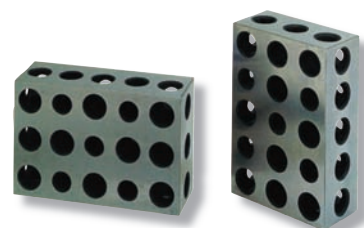
607 Series

FEATURES

- Matched pair.
- Hardened steel to RC 55-60, ground to surface finish 6-16 microinches.
- Squareness: 0.0002"

SPECIFICATIONS

Description	Code No.	
1-2-3 Block	5 tapped holes (3/8"-16), 18 untapped holes (0.340" dia.)	7607010
2-3-4 Block	5 tapped holes (3/8"-16), 18 untapped holes (0.340" dia.)	7607011
2-4-6 Block	5 tapped holes (5/8"-11), 18 untapped holes (0.520" dia.)	7607012



1-2-3 Block Set

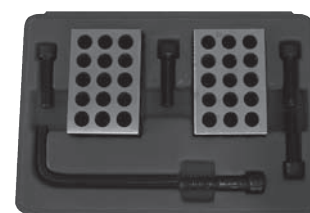
607 Series

FEATURES

- Matched pair.
- Squareness: 0.0001"
- Parallelism: 0.0001"
- Height accuracy in Pair: +/-0.0001"
- Hardness HRC 56-60.
- 5 piece 3/8"-16 socket head cap screws and 1 piece hex key.
- Supplied in plastic case.

SPECIFICATIONS

Code No.
7607016





4-Way V-Blocks

607 Series

FEATURES

- Manufactured from close grained cast iron.
- Precisely machined and ground square and parallel within 0.0008".
- V-groove parallel to bearing surface within 0.0008".
- Each V-Block has 4 different size V's, supporting a large range of diameters.
- Furnished in matched and numbered pairs.
- V angle: 90° (with 1/8" groove at bottom of V).

SPECIFICATIONS

Length	Height	Width	V Openings	Code No.
3-3/4"	2-3/4"	1-3/8"	13/16", 1-1/4", 1-1/16", 2"	7607040
4"	4"	1-5/32"	7/8", 1-1/4", 1-5/8", 2"	7607050
4-3/4"	4-3/4"	1-3/8"	1-1/4", 1-5/8", 2-1/8", 2-1/2"	7607060



High Precision Adjustable V-Blocks

607 Series

FEATURES

- Precision made tool that performs all of the functions normally requiring the use of various blocks, shims, or non-precision machinist jacks. Supports single and multiple diameter shafts, bars, etc. by quickly adjusting height.
- Wide 120 degree angle with 2-3/4" opening. Accommodates diameters from 3/16 to 5 inches
- Top faces are precision ground parallel to the base
- Position lock prevents vibration creeping.
- Total height adjustment 9/16", 0.050" per revolution, 0.001" dial increments.
- Base dimensions: 4" W x 1-3/4" L, V opening: 2-3/4", 1-3/16" wide.
- Height: approximately 3" closed, 3-9/16" opened.

SPECIFICATIONS

Description	Code No.
2 PCS Set	7607070



Ball Bearing V-Blocks

607 Series

FEATURES

- Ideal for use where inspection set-ups are not possible using plain V-Blocks. This unique product allows you to inspect and detect out of round conditions, defects, and lobes without damage to parts or blocks.
- Accuracy of ball sphericity:
0.000025" on small and medium sets
0.00005" on large set
- Balls finished to .2 micro inches, hardened to 62 RC.
- Overall accuracy of matched pairs: 35 microns
- Case iron base and housing are heat stabilized and seasoned
- Sold in pairs with clamps and test ball
- Base dimensions:
Small Pair: 2-3/16" square x 1-1/16" O/A height
Medium Pair: 3-3/8" square x 1-5/8" O/A height
Large Pair: 4-3/4" square x 2-1/2" O/A height

SPECIFICATIONS

Description	Cap. Range	Ball Dia.	Wt. Cap. (Lbs.)	Code No.
Small Pair	3/64 - 2-1/4"	1/2"	220	7607210
Medium Pair	3/32" - 5"	15/16"	1100	7607220
Large Pair	3/16" - 15"	1-1/2"	2000	7607230



Cast Vee Blocks

607 Series

FEATURES

- Precision ground matched pairs made of Cast Iron Grade 20.
- Supports objects that are cylindrical and 90° or less.
- Accuracy:
Flatness: 0.0005"
Parallelism: 0.0008"
Perpendicularity: 0.0008"



SPECIFICATIONS

Width	V-Opening	Height	Length	V-Cap.	Code No.
2"	7/8"	1-1/4"	15/16"	1-5/32"	7607700
3"	1-3/4"	2-3/8"	1-5/16"	2-7/16"	7607710
4"	2-3/16"	2-9/16"	1-9/16"	3-1/16"	7607720
5"	2-7/16"	3-1/16"	1-15/16"	3-3/8"	7607730
6"	3-1/16"	3-1/2"	2-6/17"	4-1/4"	7607740
7-7/8"	4-6/17"	5-1/2"	3-15/16"	6-1/4"	7607750
9-7/8"	4-15/16"	6-1/2"	4-15/16"	6-15/16"	7607760
11-13/16"	5-1/16"	7-7/8"	5-15/16"	7-1/16"	7607770

V-Blocks with Clamp

606 Series

FEATURES

- Made with hardened steel at HRC55-62
- With spring clamping bar.
- Delivered in pairs
- Accuracy: Parallelism & Squareness: 0.005mm



7606600



7606606

SPECIFICATIONS

Dimension	For Shaft Dia.	Code No.
Plain Clamp		
30x35x35mm	25mm	7606600
60x60x50mm	55mm	7606610
105x105x78mm	100mm	7606620
Deep Throat Clamp		
40x35x35mm	25mm	7606606
70x45x41mm	40mm	7606602
70x63x44mm	40mm	7606604

CNC Tool Setting Gauges

607 Series

FEATURES

- Designed for use on CNC slant bed machines.
- Accurately sets turning, boring and facing tools on the centerline of the workpiece.
- Adjustable to any slant angle (360°).
- 607-03-0 includes easy-to-read laser etched protractor.

SPECIFICATIONS

Description	Code No.
Tool Setting Gauge	7607020
Deluxe Tool Setting Gauge	7607030





7 PCS Jack Screw Set

607 Series

FEATURES

- 2-1/4" - 3-1/4" range screw adjustment with added 1" and 2" extensions which can be used together or separately.
- Swivel cap and pointed screw for different applications.
- 1,000 pounds weight capacity.

SPECIFICATIONS

Code No.

7607250



4 PCS Machinist's Jack Set

607 Series

FEATURES

- Use anywhere leveling is necessary.
- Adjustable screw with tilting swivel head.
- 1" adjustment.
- 3" high min. and 4" high max.
- 1,000 pounds weight capacity.

SPECIFICATIONS

Code No.

7607260



Magnetic Base Protractor

607 Series

FEATURES

- Machined V-Base and leg ends have strong magnetic pull making it easy to secure to the work piece.
- Used for tool rooms and machine shops to find center of round stock and to make angular adjustments.
- 2-3/8" dial face has machine-divided graduations to 1 degree in four 90° quadrants.
- Maximum V-Opening: 3-3/16".
- Overall length of legs: 4-13/16"
- Accuracy: ± 3 minutes.

SPECIFICATIONS

Code No.

7607270





Round Bar Center Finder

607 Series



FEATURES

- Accurately and quickly locates the center of round work pieces.
- Shank is held in collet or chuck and center is easily indicated by visual alignment of etched lines.
- Satin chrome finish.
- 3" capacity.

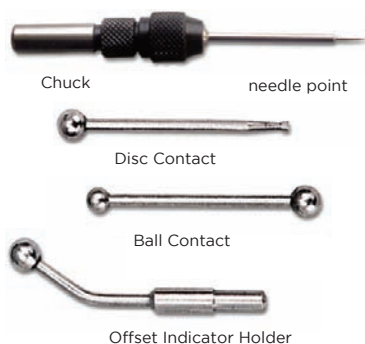
SPECIFICATIONS

Code No.

7607280

Wiggler Set

607 Series



FEATURES

- Versatile Center & Edge Finder with 4 interchangeable attachments which snap conveniently into the special chuck.
- Ball swivel joint permits adjustments to an angular position or true concentricity.
- Set includes offset indicator holder, ball contact attachment- 0.250" dia., disc contact attachment- 0.100" dia. and needle point attachment.

Code No. : 7607290

Replacement Attachments	Description	Code No.
Chuck		7607291
Needle Point	Length: Closed 2-3/8", Open: 4-1/8"	7607292
Ball Contact	Shank Dia.: 3/8", Ball Dia.: 0.250"	7607293
Disc Contact	0.100" Dia.	7607294
Offset Indicator Holder		7607295

Pin Punch Set in Wood Case

607 Series



SPECIFICATIONS

Description	Specification	Code No.
8 PCS Pin Punch Set	1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16"	7607500



Angle Gauges

605 Series

FEATURES

- Material: Satin finished stainless steel
- Each gauge has eight precision radii
- The contour of each gauge has: 50% of primary angle and complementary angles including internal and external angles
- Various purposes including alignment of the lathe tool bit and for checking cutting tool geometry

SPECIFICATIONS

Description	No. of Leaves	Code No.
Angle gauges set	18	7605010



Individual Gauges Included

Primary Angle	1/2 Primary Angle	Accuracy	Complementary Angle	Primary Angle	1/2 Primary Angle	Accuracy	Complementary Angle
5° D	2°30'	±5'	175° D	50° D	25° D	±5'	130° D
10° D	5° D	±5'	170° D	55° D	27°30'	±5'	125° D
15° D	7°30'	±5'	165° D	60° D	30° D	±5'	120° D
20° D	10° D	±5'	160° D	65° D	32°30'	±5'	115° D
25° D	12°30'	±5'	155° D	70° D	35° D	±5'	110° D
30° D	15° D	±5'	150° D	75° D	37°30'	±5'	105° D
35° D	17°30'	±5'	145° D	80° D	40° D	±5'	100° D
40° D	20° D	±5'	140° D	85° D	42°30'	±5'	95° D
45° D	22°30'	±5'	135° D	90° D	45° D	±5'	90° D

Angle Blocks

605 Series

FEATURES

- Made of hardened steel. Hardness HRC 55
- Accuracy according to DIN / ISO 3650

SPECIFICATIONS

10 pcs Set

Length x Thickness	Angle	Accuracy	Code No.
3" x 1/4"	1°- 5° by step of 1° 10°- 30° by step of 5°	±0.01°	7605060



7605060

2 pcs Set

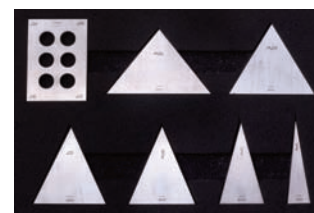
Size	Thickness	Angle	Accuracy	Code No.
3x3x4-3/8"	1/4"	45°x 45°x 90°	±0.01°	7605062
2x3-15/16x4"	1/4"	30°x 60°x 90°	±0.01°	



7605062

7 pcs Set

Grade	Individual Blocks Included	Code No.
DIN/1	15°10', 30°20', 45°30' 50°, 60°40', 75°50', 90°	7605063



7605063



Thread Pitch Gauges

605 Series

FEATURES

- Each individual gauge is stamped with the thread pitch size
- See chart below for different thread forms

SPECIFICATIONS

Metric Screw Pitch Gauges (60°)

Range	No. of Leaves	Composition of Leaves	Code No.
0.25 - 2.5mm	28	0.25 - 0.90mm by 0.05mm , 1 - 2mm x 0.1mm step , Plus 1.25, 1.75, 2.5mm	7605500
0.35 - 6mm	22	0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm, and 60° angle gauge	7605510
0.4 - 7mm	21	0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	7605520
0.4 - 7mm	18	0.4, 0.5, 0.75, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	7605530

Unified Screw Pitch Gauges (60°)

Range	No. of Leaves	Composition of Leaves	Code No.
4 - 42 TPI	30	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42 TPI	7605502
4 - 84 TPI	51	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30 - 84 by 2 , TPI	7605512

Metric and Unified Screw Pitch Gauges (60°)

Range	No. of Leaves	Composition of Leaves	Code No.
0.4 - 7mm 4 - 42 TPI	51	605-52-0 and 605-50-2	7605508
0.5 - 6mm 4 - 56 TPI	28	0.5, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm 4, 6, 7, 8, 10, 11, 11-1/2, 12, 13, 16, 20, 28, 32 TPI	7605518

Whitworth Screw Pitch Gauges (55°)

Range	No. of Leaves	Composition of Leaves	Code No.
4 - 42 TPI	30	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42 TPI	7605505
4 - 60 TPI	28	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 25, 26, 28, 30, 32, 34, 36, 40, 48, 60 TPI	7605515



Center Gauge

605 Series

FEATURES

- Precision machined hardened steel
- Profile is for 60 degree threads
- Scales markings:
Side 1 with 14ths and 20ths graduations
Side 2 with 24ths and 32ths graduations



Code No.: 7605600



Radius Gauges

605 Series

FEATURES

- Size is permanently marked on each gauge leaf
- Gauge profiles have both convex and concave radii

SPECIFICATIONS

Range	Qty.	Composition of Leaves	Remark	Code No.
1/32" - 17/64"	18 pairs	1/32" - 17/64" x 1/64" step	90° arc.	7605401
1/32" - 1/4"	15 pairs	1/32" - 1/4" x 1/64" step	180° arc.	7605411
17/64" - 1/2"	16 pairs	17/64" - 1/2" x 1/64" step	180° arc.	7605421
9/32" - 33/64"	16 pairs	9/32" - 33/64" x 1/64" step	90° arc.	7605431
1/64" - 1/2"	25 pairs	1/64" - 17/64" x 1/64" step, 9/32" - 1/2" x 1/32" step	-	7605441
0.5 - 13mm	26 pairs	0.5 - 13mm x 0.5mm step	90° arc.	7605410
1 - 7mm	17 pairs	1-3mm x 0.25mm step, 3.5-7mm x 0.5mm step	180° arc.	7605420
7.5 - 15mm	16 pairs	7.5 - 15mm x 0.5mm step	180° arc.	7605430
15.5 - 25mm	15 pairs	15.5 - 20mm x 0.5mm step, 21-25mm x 1mm step	180° arc.	7605440



Thickness Gauges

605 Series

FEATURES

- Each leaf is marked with its thickness
- Each leaf is detachable if necessary
- Metric thickness gauges are available with tapered leaves
Please add "T" at the end of Code No., e.g. 605-31-0T

SPECIFICATIONS

Range	Qty.	Composition of Leaves	Types of Leaves	Blade length	Code No.
Inch					
.002" - .035"	26	.002" - .018" x .001" step .022", .024", .025", .08", .030", .032", .035"	Straight, 1/2" width	3"	7605301
.0015" - .025"	26	.002" - .025" by .001" .0015", .0025"	Tapered, 1/4" width	3"	7605311
.0015" - .200"	15	.0015", .002", .003", .004", .006", .008", .010", .012", .015", .020", .030", .040", .075", .100", .200"	Straight, 1/2" width	3"	7605321
.0015" - .200"	13	.0015", .002", .003", .004", .006", .008", .010", .020", .030", .040", .075", .100", .200"	Straight, 1/2" width	4.5"	7605331
Metric					
0.05 - 1mm	20	0.05mm - 1mm x 0.05mm step	Straight, 13mm width	150mm	7605310
0.05 - 1mm	13	0.05mm - 0.3mm x 0.05mm step 0.4mm - 1mm x 0.1mm step	Straight, 13mm width	100mm	7605330
				150mm	7605332
0.05 - 0.8mm	10	0.05mm - 0.2mm x 0.05mm step, 0.3mm - 0.8mm x 0.1mm step	Straight, 13mm width	100mm	7605340
				150mm	7605342



7605311

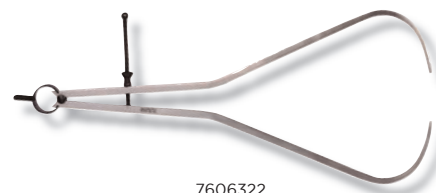


Spring Dividers and Calipers

606 Series

FEATURES

- Manufactured from hardened durable material
- Contact surfaces are rounded



7606322

SPECIFICATIONS

Inch	Metric	Spring Divider	Outside Spring Caliper	Inside Spring Caliper
Range	Range	Code No.	Code No.	Code No.
6"	150mm	7606310	7606312	7606314
8"	200mm	7606320	7606322	7606324
10"	250mm	7606330	7606332	7606334
12"	300mm	7606340	7606342	7606344
16"	400mm	7606350	7606352	7606354
20"	500mm	7606360	7606362	7606364
24"	600mm	7606370	7606372	7606374



7606324



7606320

Ultra Precision Wavy Parallel Set

607 Series

FEATURES

- Made of high quality spring steel, hardened, stress relieved, and precision ground.
- Parallel within $\pm 0.0002"$, paired $\pm 0.0002"$.
- Includes 9 pairs 4-1/4" long with the following heights: 1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2".
- Shims can be compressed, which proves useful in the holding of thin parts.

SPECIFICATIONS

Description	Code No.
Ultra Precision Wavy Parallel Set	7607660





Digital Protractors - Level Type

490 Series

FEATURES

- This protractor provides an immediate digital reading of any angle in a full circle with 0°-90°-0°-90°-0° readings. The machined aluminum frame is rigid and light with a precise platform that allows the sensor and its microprocessor circuit to provide high accuracy throughout the entire 360° range
- Four 90° quadrants for display purposes
- Calibrates in minutes without any special fixtures
- HOLD button for freezing a reading in an unreadable position
- ABS/ZERO button allows 2 measuring modes, Standard and Alternate Reference.
- V-grooves on top and bottom for use on curved surfaces
- Angle displayed upright regardless of protractor position
- Item #7490162 comes with magnet on base, which is helpful for fixing

STANDARD ACCESSORIES

- Battery, Warranty card, Instruction manual

SPECIFICATIONS

Code No.	7490160 / 7490162*
Range	360°
Resolution	0.1°
Operating Temp. Range	23°F-122°F/-5°C-50°C
Power	3V, Lithium cell
Accuracy	±0.1°
Size	152x63.8x60mm
Weight	343g

* Note: Comes with magnet on base



7490160

Precision Levels

606 Series

FEATURES

- All measuring surfaces of the square models are precision ground to facilitate readings at both horizontal and vertical planes

SPECIFICATIONS

Range	Sensitivity	Code No.
Straight Models		
200 x 47mm	0.10mm/m	7606510
200 x 47mm	0.05mm/m	7606515
200 x 47mm	0.02mm/m	7606512
300 x 55mm	0.10mm/m	7606520
300 x 55mm	0.05mm/m	7606525
300 x 55mm	0.02mm/m	7606522
Square Models		
200 x 200 x 40mm	0.10mm/m	7606530
200 x 200 x 40mm	0.05mm/m	7606535
200 x 200 x 40mm	0.02mm/m	7606532
300 x 300 x 46mm	0.10mm/m	7606540
300 x 300 x 46mm	0.05mm/m	7606545
300 x 300 x 46mm	0.02mm/m	7606542



7606530



7606510

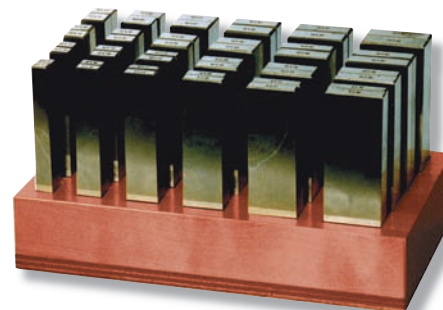


High Precision Metric Parallels

663 Series



7663020



7663120

FEATURES

- Made of hardened steel. Hardness HRC 48
- Tolerance of Height: $\pm 0.01\text{mm}$
- Tolerance in pairs IT5

SPECIFICATIONS

Height of Individual Blocks	Length	Width	Number of Pairs	Code No.
14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40mm	120mm	10mm	12	7663010
14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50mm	150mm	10mm	14	7663020

Width x Height of Individual Blocks	Length	Number of Pairs	Code No.
2x5, 3x6, 4x7, 5x8, 6x9mm, 2x10, 3x11, 4x12, 5x13, 6x14mm, 2x15, 3x16, 4x17, 5x18, 6x19mm, 2x20, 3x21, 4x22, 5x23, 6x24mm	100mm	20	7663110
8x11, 10x13, 12x15, 14x17mm, 8x16, 10x18, 12x20, 14x22mm, 8x21, 10x23, 12x25, 14x27mm,	125mm	24	7663120
8x26, 10x28, 12x30, 14x32mm, 8x31, 10x33, 12x35, 14x37mm, 8x36, 10x38, 12x40, 14x42mm	150mm	24	7663130

Precision Parallel Sets

607 Series

FEATURES

- hardened and ground high grade alloy steel.
- Hardness 52-58 HRC.
- 6" length.
- Height specifications consistent within each pair.
- Absolute heights are nominal.
- Supplied in durable molded plastic case.



SPECIFICATIONS

	Description	Thickness	Parallelism	Paired Accuracy	Width Accuracy	Length accuracy	Code No.
8 Pair Parallel Set	7/8" to 1-3/4" in 1/8" increments.	1/2"	$\pm 0.0003"$	$\pm 0.0003"$	$\pm 0.0008"$	$\pm 0.0006"$	7607080
9 Pair Parallel Set	3/4" to 1-3/4" in 1/8" increments.	1/4"	$\pm 0.0002"$	$\pm 0.0002"$	$\pm 0.0008"$	$\pm 0.0006"$	7607090
10 Pair Parallel Set	1/2" to 1-5/8" in 1/8" increments.	1/8"	$\pm 0.0002"$	$\pm 0.0002"$	$\pm 0.0008"$	$\pm 0.0006"$	7607100
10 Pair Parallel Set	1/2" to 1-5/8" in 1/8" increments.	1/32"	$\pm 0.0002"$	$\pm 0.0002"$	$\pm 0.0008"$	$\pm 0.0006"$	7607101



Granite Surface Plates

630 / 631 Series

FEATURES

- Material: Natural granite black in colour provides stability and longevity
- Each surface plate is shipped with a certificate of accuracy which guarantees its accuracy
- Granite surface plates are more common than cast iron plates due to the positive attributes
- Granite plate stands is not included



SPECIFICATIONS

Inch

Size	Grade AA
	Code No.
8x12x3"	7631109
9x12x3"	7631129
12x12x3"	7631149
12x18x4"	7631169
18x18x4"	7631189
18x24x4"	7631209
24x24x5"	7631229
24x30x5"	7631249
24x36x6"	7631269
24x48x8"	7631289
30x36x6"	7631309
30x48x8"	7631329
30x60x12"	7631349
36x36x6"	7631369
36x48x8"	7631389

Metric

Size	Grade 00
	Code No.
300x300x100mm	7630109
450x300x100mm	7630129
600x450x100mm	7630149
600x600x130mm	7630169
750x500x130mm	7630189
1000x750x150mm	7630209
1000x1000x150mm	7630229
1500x1000x200mm	7630249
2000x1000x250mm	7630269
2000x1500x300mm	7630289
2000x2000x300mm	7630309
3000x1500x400mm	7630329
3000x2000x500mm	7630349



Granite Plate Stands

638 Series

Size	Code No.
600x450x100mm	7638030
600x600x130mm	7638040
750x500x130mm	7638050
1000x750x150mm	7638060
1000x1000x150mm	7638070
1500x1000x200mm	7638080

Precision Surface Plate Cleaner

607 Series

FEATURES

- An exclusive formulation that is extremely effective for the cleaning and care of Granite Surface Plates.
- Works quickly and effectively, leaves no residue on the granite.



SPECIFICATIONS

Description	Code No
Pint	7607510
Pint Spray Pump	7607520
Quart	7607530
1/2 Gallon	7607540
Gallon	7607550
5 Gallon	7607560

Optical Flats and Parallels

605 Series

FEATURES

- Used to verify the flatness and parallelism of micrometer measuring faces
- Each set has four individual thicknesses as per chart
- Flatness: 0.1µm. Parallelism: 0.2µm

SPECIFICATIONS

Optical Flats

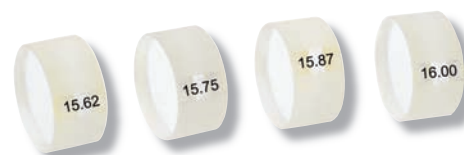
Dimensions	Flatness	Code No.
Ø45 x 15mm	0.1µm	7605511
Ø60 x 20mm	0.2µm	7605513

Optical Parallels Diameter: 30mm

Micrometers Range	Dimensions	Code No.
0-25mm	15.62, 15.75, 15.87, 16.00mm	7605521
25-50mm	40.62, 40.75, 40.87, 41.00mm	7605522
50-75mm	65.62, 65.75, 65.87, 66.00mm	7605523
75-100mm	90.62, 90.75, 90.87, 91.00mm	7605524



7605511



7605521



Electronic Edge Finders

607 Series



7607150

FEATURES

- Repeatability: 0.002".
- Reads off any electrically conductive metal.
- Cylindrical style head.
- 1/2" shank.
- Furnished with LED indicator.

Code No.

7607150



7607160

FEATURES

- T.I.R. within 0.0002".
- Precision ground on all surfaces.
- Four highly visible LED lights.
- One-piece construction for strength and accuracy.
- Head diameter: 0.400"; 3/4" shank.

Code No.

7607160



7607170

FEATURES

- Use on any electrically conductive material.
- Highly accurate - repeatability: 0.0002".
- Bright LED with six equally spaced light ports.

Code No.

7607170

Edge Finders

607 Series



7607300



7607400



7607410



7607320



7607350



7607370

FEATURES

- Hardened and ground all over.
- Accurately locates the starting point for all types of machine work and jig boring.

SPECIFICATIONS

Description	Shank Dia.	Tip Dia.	Code No.
Edge Finder (EF1)	3/8"	0.200"	7607300
Edge Finder (EF2)	1/2"	0.200"	7607310
Edge Finder (EF3)	1/2"	0.500"	7607320
Edge Finder (EF4)	10mm / 3/8"	10mm	7607330
Edge Finder (EF5)	10mm	10mm	7607340
Center Finder (EF6)	3/8"		7607350
Center Finder (EF7)	1/2"		7607360
Combo Edge/Center Finder (EF8)	3/8"	0.200"	7607370
Combo Edge/Center Finder (EF9)	1/2"	0.200"	7607380
Sets			
4 Pcs Set	EF1, EF3, EF5, EF8		7607400
4 Pcs Set	EF2, EF6, EF7, EF9,		7607410



Automatic Weld Size Welding Gauge

607 Series



FEATURES

- For accurate inspection of butt and fillet type welds. Checks size of fillet welds, permissible tolerance of convexity, concavity, and reinforcement of butt welds.
- Stainless steel, pocket size construction.
- Inch readings
- Convexity and concavity sizes preset in accordance with AWS D1-1.

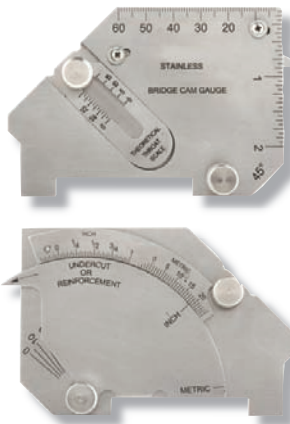
SPECIFICATIONS

Code No.

7607630

Bridge Cam Welding Gauge

606 Series



FEATURES

- This versatile cam-type weld gauge can be used for checking surfaces, angles, depths, etc.
- Can measure fit-up bevels, weld reinforcement, fillet weld leg length, undercuts and pits, throat of fillet weld, angles to 60° height of weld metal, and misalignments.
- High quality stainless steel construction.
- Quick and accurate measurement of most common weld sizes.
- Readings in Inch and Metric.
- Adjustable scale compensates for wear on pointer.

SPECIFICATIONS

Code No.

7606640

Universal Sliding Bevel

606 Series



FEATURES

- Straight slot allows for a wide variety of adjustments and angle settings not easily obtained with ordinary bevels.
- Contains straight and offset slots on 6" adjustable blade.
- Duplicate any angle.
- Handle is 3-1/2" long with a straight slot.

SPECIFICATIONS

Code No.

7606650



American Standard & Wire Gauges

607 Series

FEATURES

- Made of heavy gauge hardened steel 62 RC.
- Satin chrome finish, no glare.
- Gaging slots meet Federal Specifications.
- Front face shows gauge size, back shows decimal equivalents adjacent to each slot.



SPECIFICATIONS

Description	Code No
American Standard and B&S Gauge for measuring wire diameter and non-ferrous sheets with copper, aluminum and wrought iron.	7607600
U.S. Standard Gauge for measuring steel, plate iron and uncoated sheet metal.	7607610

Countersink Angle Gauge

607 Series

FEATURES

- Easily verifies countersink angles.
- Graduated in 32nds for depth measurement.
- Standard angles are 60, 82, 90, 100, 110 and 120°.

SPECIFICATIONS

Code No
7607620



Sine Bar Riser Kit

605 Series

FEATURES

Sine Bar:

- 5" length, 1" body size.
- Hardened and ground steel.
- Top parallel to bottom of rolls within 0.0002".

Riser:

- 18 risers: 1/2, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 1/4T and 1/2T.
- Within 0.0001" of exact constants.
- Note: Risers to be used individually, not to be stacked.
1/4T and 1/2T are to obtain angle of 1/4" and 1/2" taper per foot respectively.

SPECIFICATIONS

Description	Code No.
Sine Bar with Riser Kit	7605730





Gauges

161	Rectangular Gauge Block Sets
163	Rectangular Steel Gauge Block Sets
164	Inch Individual Rectangular Gauge Blocks
165	Metric Individual Rectangular Gauge Blocks
167	Caliper Cabiration Gauge Sets
167	Micrometer Calibration Gauge Sets
168	Gauge Block Accessories
169	Check Masters
170	Plug Gauges and Ring Gauges
171	Thread Plug Gauges and Ring Gauges
173	Whitworth Pipe Thread Gauges
173	NPT T hread Gauges
173	Inch Master Setting Ring Gauges
174	ANSI Inch Thread Plug Gauges and Ring Gauges
175	TiN-coated ANSI Inch Thread Plug Gauges
176	ANSI Metric Thread Plug Gauges and Ring Gauges
177	TiN-coated ANSI Metric Thread Plug Gauges
178	Individual Inspection Gauge Balls
178	Precision Inspection Gauge Ball Sets
179	36 Pc. Round Space Block Set
179	Thread Measuring Wire Set
180	Individual Pin Gauges
180	Pin Gauge Sets
181	Pin Gauge Handles

Rectangular Gauge Block Sets

650 Series

FEATURES

- Individual serial numbers on each block, regardless of grade
- A complete certificate of calibration traceable to the N.I.S.T or P.T.B showing the deviation of each block
- Mirror polished surfaces provide superior wringing characteristics



7650630

SPECIFICATIONS

Inch

Blocks Per Set	Blocks Included In Set	Grade	Former grade	Steel	Ceramic
				Code No.	Code No.
81 (ASME)	1 Block: 0.050" 10 Blocks: 0.1000"-0.1009" x 0.0001" step 49 Blocks: 0.101"-0.149" x 0.001" step 17 Blocks: 0.150"-0.950" x 0.050" step 4 Blocks: 1.000"-4.000" x 1.000" step	0	2	7650010	7650510
		AS-1	3	7650011	7650511
		AS-2	B	7650012	-
36 (ASME)	1 Block: 0.050" 10 Blocks: 0.1000"-0.1009" x 0.0001" step 9 Blocks: 0.101"-0.109" x 0.001" step 9 Blocks: 0.110"-0.190" x 0.010" step 4 Blocks: 0.200"-0.500" x 0.100" step 3 Blocks: 1", 2", 4"	0	2	7650020	7650520
		AS-1	3	7650021	7650521
		AS-2	B	7650022	-

Metric

1 mm base set

Blocks Per Set	Blocks Included In Set	Grade	Code No.	Ceramic
				Code No.
122 (ASME / DIN / JIS / GB)	1 Blocks: 1.0005mm 9 Blocks: 1.001- 1.009mm x 0.001mm step 49 Blocks: 1.01- 1.49mm x 0.01mm step 4 Blocks: 1.6 - 1.9mm x 0.1mm step 49 Blocks: 0.5 - 24.5mm x 0.5mm step 8 Blocks: 30 - 100mm x 10mm step 2 Blocks: 25, 75mm	0	7650110	7650610
		1	7650111	7650611
		2	7650112	7650612
112 (ASME / DIN / JIS / GB)	1 Blocks: 1.0005mm 9 Blocks: 1.001- 1.009mm x 0.001mm step 49 Blocks: 1.01- 1.49mm x 0.01mm step 49 Blocks: 0.5 - 24.5mm x 0.5mm step 4 Blocks: 25 - 100mm x 25mm step	0	7650170	7650670
		1	7650171	7650671
		2	7650172	7650672
103 (ASME / DIN / JIS / GB)	1 Blocks: 1.005mm 49 Blocks: 1.01- 1.49mm x 0.01mm step 49 Blocks: 0.5 - 24.5mm x 0.5mm step 4 Blocks: 25 - 100mm x 25mm step	0	7650120	7650620
		1	7650121	7650621
		2	7650122	7650622
88 (ASME / DIN / JIS / GB)	1 Blocks: 1.0005mm 9 Blocks: 1.001- 1.009mm x 0.001mm step 49 Blocks: 1.01- 1.49mm x 0.01mm step 19 Blocks: 0.5 - 9.5mm x 0.5mm step 10 Blocks: 10 - 100mm x 10mm step	0	7650180	7650680
		1	7650181	7650681
		2	7650182	7650682
87 (ASME / DIN / JIS / GB)	9 Blocks: 1.001- 1.009mm x 0.001mm step 49 Blocks: 1.01- 1.49mm x 0.01mm step 19 Blocks: 0.5 - 9.5mm x 0.5mm step 10 Blocks: 10 - 100mm x 10mm step	0	7650130	7650630
		1	7650131	7650631
		2	7650132	7650632
76 (ASME / DIN / JIS / GB)	1 Blocks: 1.005mm 49 Blocks: 1.01- 1.49mm x 0.01mm step 19 Blocks: 0.5 - 9.5mm x 0.5mm step 4 Blocks: 10 - 40mm x 10mm step 3 Blocks: 50 - 100mm x 25mm step	0	7650190	7650690
		1	7650191	7650691
		2	7650192	7650692

Rectangular Gauge Block Sets

650 Series

Metric 1 mm base set

		Steel		Ceramic
Blocks Per Set	Blocks Included In Set	Grade	Code No.	Code No.
56 (ASME / DIN / JIS / GB)	1 Block: 0.5mm 9 Block: 1.001- 1.009mm x 0.001mm step 9 Block: 1.01- 1.09mm x 0.01mm step 9 Block: 1.1- 1.9mm x 0.1mm step 24 Block: 1- 24mm x 1mm step 4 Block: 25 - 100mm x 25mm step	0	7650200	7650700
		1	7650201	7650701
		2	7650202	7650702
47 (ASME / DIN / GB)	1 Block: 1.005mm 20 Block: 1.01- 1.20mm x 0.01mm step 7 Block: 1.3 - 1.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 10 Block: 10 - 100mm x 10mm step	0	7650140	7650640
		1	7650141	7650641
		2	7650142	7650642
47 (JIS)	1 Block: 1.005mm 9 Block: 1.01 - 1.09mm x 0.01mm step 9 Block: 1.1 - 1.9mm x 0.1mm step 24 Block: 1 - 24mm x 1mm step 4 Block: 25 - 100mm x 25mm step	0	7650150	7650650
		1	7650151	7650651
		2	7650152	7650652
46 (ASME / DIN / JIS / GB)	9 Block: 1.001- 1.009mm x 0.001mm step 9 Block: 1.01- 1.09mm x 0.01mm step 9 Block: 1.1 - 1.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 10 Block: 10 - 100mm x 10mm step	0	7650210	7650710
		1	7650211	7650711
		2	7650212	7650712
34 (ASME / DIN / JIS / GB)	1 Block: 1.0005 9 Block: 1.001- 1.009mm x 0.001mm step 9 Block: 1.01 - 1.09mm x 0.01mm step 9 Block: 1.1- 1.9mm x 0.1mm step 6 Block: 1- 5 x 1mm step, 10mm	0	7650220	7650720
		1	7650221	7650721
		2	7650222	7650722
32 (ASME / DIN / JIS / GB)	1 Block: 1.005mm 9 Block: 1.01 - 1.09mm x 0.01mm step 9 Block: 1.1 - 1.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 4 Block: 10mm, 20mm, 30mm, 50mm	0	7650160	7650660
		1	7650161	7650661
		2	7650162	7650662
24 (ASME / DIN / JIS / GB)	9 Block: 1.01-1.09mm x 0.01mm step 9 Block: 1.1 - 1.9mm x 0.1mm step 5 Block: 1 - 5 mm x 1mm step 1 Block: 10 mm	0	7650230	7650730
		1	7650231	7650731
19 (ASME / DIN / JIS / GB)	9 Block: 1.1 - 1.9mm x 0.1mm step 5 Block: 1- 5 mm x 1mm step 2 Block: 10 - 20 mm x 10mm step 3 Block: 25mm, 50mm, 100 mm	0	7650240	7650740
		1	7650241	7650741
10 (ASME / DIN / JIS / GB)	5 Block: 1 - 5 mm x 1mm step 2 Block: 10 - 20 mm x 10mm step 3 Block: 25mm, 50mm, 100 mm	0	7650250	7650750
		1	7650251	7650751

Metric 0.001 mm base set

		Steel		Ceramic
Blocks Per Set	Blocks Included In Set	Grade	Code No.	Code No.
18 (ASME / DIN / JIS / GB)	9 Block: 0.991 - 0.999mm x 0.001mm step 9 Block: 1.001 - 1.009mm x 0.001mm step	0	7650260	7650760
		1	7650261	7650761
		2	7650262	7650762
9 (ASME / DIN / JIS / GB)	9 Block: 1.001 - 1.009mm x 0.001mm step	0	7650270	7650770
		1	7650271	7650771
		2	7650272	7650772
9 (ASME / DIN / JIS / GB)	9 Block: 0.991 - 0.999mm x 0.001mm step	0	7650280	7650780
		1	7650281	7650781
		2	7650282	7650782

Rectangular Steel Gauge Block Sets

650 Series

Blocks Per Set	Blocks Included In Set	Grade	ASME / DIN / JIS / GB	ASME
			Code No.	Code No.
8 (ASME / DIN / JIS / GB)	125mm, 150, 175, 200, 250, 300, 400, 500mm	0	7650350	7650850
		1	7650351	7650851
		2	7650352	7650852

Rectangular Tungsten Steel Gauge Block Sets

650 Series

Blocks Per Set	Blocks Included In Set	Grade	Code No.
87 (ASME / DIN / JIS / GB)	9 Block: 1.001- 1.009mm x 0.001mm step 49 Block: 1.01- 1.49mm x 0.01mm step 19 Block: 0.5 - 9.5mm x 0.5mm step 10 Block: 10 - 100mm x 10mm step	0	7650930
		1	7650931
103 (ASME / DIN / JIS / GB)	1 Block: 1.005mm 49 Block: 1.01- 1.49mm x 0.01mm step 49 Block: 0.5 - 24.5mm x 0.5mm step 4 Block: 25 - 100mm x 25mm step	0	7650920
		1	7650921
112 (ASME / DIN / JIS / GB)	1 Block: 1.0005mm 9 Block: 1.001- 1.009mm x 0.001mm step 49 Block: 1.01- 1.49mm x 0.01mm step 49 Block: 0.5 - 24.5mm x 0.5mm step 4 Block: 25 - 100mm x 25mm step	0	7650970
		1	7650971

Inch Individual Rectangular Gauge Blocks

65X Series

FEATURES

- ASME / DIN / JIS / GB Standard
- ASME Grade 0 is available for both Steel and Ceramic individuals,
- ASME Grade 1 is only available for Steel



7651870

SPECIFICATIONS

Size	Steel		Ceramic
	Grade 0	Grade 1	Grade 0
0.05"	7651010	7651011	7655010
0.05005"	7651020	7651021	7655020
0.0503"	7651030	7651031	7655030
0.0506"	7651040	7651041	7655040
0.0507"	7651050	7651051	7655050
0.0508"	7651060	7651061	7655060
0.0509"	7651070	7651071	7655070
0.052"	7651080	7651081	7655080
0.053"	7651090	7651091	7655090
0.054"	7651100	7651101	7655100
0.055"	7651110	7651111	7655110
0.056"	7651120	7651121	7655120
0.058"	7651130	7651131	7655130
0.06"	7651140	7651141	7655140
0.1"	7651150	7651151	7655150
0.10005"	7651160	7651161	7655160
0.1001"	7651170	7651171	7655170
0.1002"	7651180	7651181	7655180
0.1003"	7651190	7651191	7655190
0.1004"	7651200	7651201	7655200
0.1005"	7651210	7651211	7655210
0.1006"	7651220	7651221	7655220
0.1007"	7651230	7651231	7655230
0.1008"	7651240	7651241	7655240
0.1009"	7651250	7651251	7655250
0.101"	7651260	7651261	7655260
0.102"	7651270	7651271	7655270
0.103"	7651280	7651281	7655280
0.104"	7651290	7651291	7655290
0.105"	7651300	7651301	7655300
0.106"	7651310	7651311	7655310
0.107"	7651320	7651321	7655320
0.108"	7651330	7651331	7655330
0.109"	7651340	7651341	7655340
0.11"	7651350	7651351	7655350
0.111"	7651360	7651361	7655360

Size	Steel		Ceramic
	Grade 0	Grade 1	Grade 0
0.112"	7651370	7651371	7655370
0.113"	7651380	7651381	7655380
0.114"	7651390	7651391	7655390
0.115"	7651400	7651401	7655400
0.116"	7651410	7651411	7655410
0.117"	7651420	7651421	7655420
0.118"	7651430	7651431	7655430
0.119"	7651440	7651441	7655440
0.12"	7651450	7651451	7655450
0.121"	7651460	7651461	7655460
0.122"	7651470	7651471	7655470
0.123"	7651480	7651481	7655480
0.124"	7651490	7651491	7655490
0.125"	7651500	7651501	7655500
0.126"	7651510	7651511	7655510
0.127"	7651520	7651521	7655520
0.128"	7651530	7651531	7655530
0.129"	7651540	7651541	7655540
0.13"	7651550	7651551	7655550
0.131"	7651560	7651561	7655560
0.132"	7651570	7651571	7655570
0.133"	7651580	7651581	7655580
0.134"	7651590	7651591	7655590
0.135"	7651600	7651601	7655600
0.136"	7651610	7651611	7655610
0.137"	7651620	7651621	7655620
0.138"	7651630	7651631	7655630
0.139"	7651640	7651641	7655640
0.14"	7651650	7651651	7655650
0.141"	7651660	7651661	7655660
0.142"	7651670	7651671	7655670
0.143"	7651680	7651681	7655680
0.144"	7651690	7651691	7655690
0.145"	7651700	7651701	7655700
0.146"	7651710	7651711	7655710
0.147"	7651720	7651721	7655720

Size	Steel		Ceramic
	Grade 0	Grade 1	Grade 0
0.148"	7651730	7651731	7655730
0.149"	7651740	7651741	7655740
0.15"	7651750	7651751	7655750
0.16"	7651760	7651761	7655760
0.17"	7651770	7651771	7655770
0.18"	7651780	7651781	7655780
0.19"	7651790	7651791	7655790
0.2"	7651800	7651801	7655800
0.21"	7651810	7651811	7655810
0.25"	7651820	7651821	7655820
0.3"	7651830	7651831	7655830
0.35"	7651840	7651841	7655840
0.4"	7651850	7651851	7655850
0.45"	7651860	7651861	7655860
0.5"	7651870	7651871	7655870
0.55"	7651880	7651881	7655880
0.6"	7651890	7651891	7655890
0.65"	7651900	7651901	7655900
0.7"	7651910	7651911	7655910
0.75"	7651920	7651921	7655920
0.8"	7651930	7651931	7655930
0.85"	7651940	7651941	7655940
0.9"	7651950	7651951	7655950
0.95"	7651960	7651961	7655960
1"	7651970	7651971	7655970
2"	7651980	7651981	7655980
3"	7651990	7651991	7655990
4"	7652000	7652001	7656000
5"	7652010	7652011	7656010
6"	7652020	7652021	-
7"	7652030	7652031	-
8"	7652040	7652041	-
10"	7652050	7652051	-
12"	7652060	7652061	-
16"	7652070	7652071	-
20"	7652080	7652081	-

Metric Individual Rectangular Gauge Blocks

653 / 654 Series

FEATURES

- ASME / DIN / JIS / GB Standard
- Steel Grade 0 and Grade 1

SPECIFICATIONS

	Grade 0	Grade 1
Size	Code No.	Code No.
0.5mm	7653010	7653011
1mm	7653020	7653021
1.001mm	7653030	7653031
1.002mm	7653040	7653041
1.003mm	7653050	7653051
1.004mm	7653060	7653061
1.005mm	7653070	7653071
1.006mm	7653080	7653081
1.007mm	7653090	7653091
1.008mm	7653100	7653101
1.009mm	7653110	7653111
1.01mm	7653120	7653121
1.02mm	7653130	7653131
1.03mm	7653140	7653141
1.04mm	7653150	7653151
1.05mm	7653160	7653161
1.06mm	7653170	7653171
1.07mm	7653180	7653181
1.08mm	7653190	7653191
1.09mm	7653200	7653201
1.1mm	7653210	7653211
1.11mm	7653220	7653221
1.12mm	7653230	7653231
1.13mm	7653240	7653241
1.14mm	7653250	7653251
1.15mm	7653260	7653261
1.16mm	7653270	7653271
1.17mm	7653280	7653281
1.18mm	7653290	7653291
1.19mm	7653300	7653301
1.2mm	7653310	7653311
1.21mm	7653320	7653321
1.22mm	7653330	7653331
1.23mm	7653340	7653341
1.24mm	7653350	7653351
1.25mm	7653360	7653361
1.26mm	7653370	7653371
1.27mm	7653380	7653381
1.28mm	7653390	7653391
1.29mm	7653400	7653401
1.3mm	7653410	7653411
1.31mm	7653420	7653421
1.32mm	7653430	7653431
1.33mm	7653440	7653441
1.34mm	7653450	7653451

	Grade 0	Grade 1
Size	Code No.	Code No.
1.35mm	7653460	7653461
1.36mm	7653470	7653471
1.37mm	7653480	7653481
1.38mm	7653490	7653491
1.39mm	7653500	7653501
1.4mm	7653510	7653511
1.41mm	7653520	7653521
1.42mm	7653530	7653531
1.43mm	7653540	7653541
1.44mm	7653550	7653551
1.45mm	7653560	7653561
1.46mm	7653570	7653571
1.47mm	7653580	7653581
1.48mm	7653590	7653591
1.49mm	7653600	7653601
1.5mm	7653610	7653611
1.6mm	7653620	7653621
1.7mm	7653630	7653631
1.8mm	7653640	7653641
1.9mm	7653650	7653651
2mm	7653660	7653661
2.5mm	7653670	7653671
3mm	7653680	7653681
3.5mm	7653690	7653691
4mm	7653700	7653701
4.5mm	7653710	7653711
5mm	7653720	7653721
5.5mm	7653730	7653731
6mm	7653740	7653741
6.5mm	7653750	7653751
7mm	7653760	7653761
7.5mm	7653770	7653771
8mm	7653780	7653781
8.5mm	7653790	7653791
9mm	7653800	7653801
9.5mm	7653810	7653811
10mm	7653820	7653821
10.5mm	7653830	7653831
11mm	7653840	7653841
11.5mm	7653850	7653851
12mm	7653860	7653861
12.5mm	7653870	7653871
13mm	7653880	7653881
13.5mm	7653890	7653891
14mm	7653900	7653901

	Grade 0	Grade 1
Size	Code No.	Code No.
14.5mm	7653910	7653911
15mm	7653920	7653921
15.5mm	7653930	7653931
16mm	7653940	7653941
16.5mm	7653950	7653951
17mm	7653960	7653961
17.5mm	7653970	7653971
18mm	7653980	7653981
18.5mm	7653990	7653991
19mm	7654000	7654001
19.5mm	7654010	7654011
20mm	7654020	7654021
20.5mm	7654030	7654031
21mm	7654040	7654041
21.5mm	7654050	7654051
22mm	7654060	7654061
22.5mm	7654070	7654071
23mm	7654080	7654081
23.5mm	7654090	7654091
24mm	7654100	7654101
24.5mm	7654110	7654111
25mm	7654120	7654121
30mm	7654130	7654131
40mm	7654140	7654141
50mm	7654150	7654151
60mm	7654160	7654161
70mm	7654170	7654171
75mm	7654180	7654181
80mm	7654190	7654191
90mm	7654200	7654201
100mm	7654210	7654211
125mm	-	7654221
150mm	-	7654231
175mm	-	7654241
200mm	-	7654251
250mm	-	7654271
300mm	-	7654291
400mm	-	7654311
500mm	-	7654331
600mm	-	7654351
700mm	-	7654371
800mm	-	7654391
900mm	-	7654411
1000mm	-	7654431

Metric Individual Rectangular Ceramic Gauge Blocks

657 / 658 Series

FEATURES

- ASME / DIN / JIS / GB Standard
- Ceramic Grade 0

SPECIFICATIONS

Size	Code No.
0.5mm	7657010
1mm	7657020
1.001mm	7657030
1.002mm	7657040
1.003mm	7657050
1.004mm	7657060
1.005mm	7657070
1.006mm	7657080
1.007mm	7657090
1.008mm	7657100
1.009mm	7657110
1.01mm	7657120
1.02mm	7657130
1.03mm	7657140
1.04mm	7657150
1.05mm	7657160
1.06mm	7657170
1.07mm	7657180
1.08mm	7657190
1.09mm	7657200
1.1mm	7657210
1.11mm	7657220
1.12mm	7657230
1.13mm	7657240
1.14mm	7657250
1.15mm	7657260
1.16mm	7657270
1.17mm	7657280
1.18mm	7657290
1.19mm	7657300
1.2mm	7657310
1.21mm	7657320
1.22mm	7657330
1.23mm	7657340
1.24mm	7657350
1.25mm	7657360
1.26mm	7657370
1.27mm	7657380
1.28mm	7657390
1.29mm	7657400
1.3mm	7657410

Size	Code No.
1.31mm	7657420
1.32mm	7657430
1.33mm	7657440
1.34mm	7657450
1.35mm	7657460
1.36mm	7657470
1.37mm	7657480
1.38mm	7657490
1.39mm	7657500
1.4mm	7657510
1.41mm	7657520
1.42mm	7657530
1.43mm	7657540
1.44mm	7657550
1.45mm	7657560
1.46mm	7657570
1.47mm	7657580
1.48mm	7657590
1.49mm	7657600
1.5mm	7657610
1.6mm	7657620
1.7mm	7657630
1.8mm	7657640
1.9mm	7657650
2mm	7657660
2.5mm	7657670
3mm	7657680
3.5mm	7657690
4mm	7657700
4.5mm	7657710
5mm	7657720
5.5mm	7657730
6mm	7657740
6.5mm	7657750
7mm	7657760
7.5mm	7657770
8mm	7657780
8.5mm	7657790
9mm	7657800
9.5mm	7657810
10mm	7657820

Size	Code No.
10.5mm	7657830
11mm	7657840
11.5mm	7657850
12mm	7657860
12.5mm	7657870
13mm	7657880
13.5mm	7657890
14mm	7657900
14.5mm	7657910
15mm	7657920
15.5mm	7657930
16mm	7657940
16.5mm	7657950
17mm	7657960
17.5mm	7657970
18mm	7657980
18.5mm	7657990
19mm	7658000
19.5mm	7658010
20mm	7658020
20.5mm	7658030
21mm	7658040
21.5mm	7658050
22mm	7658060
22.5mm	7658070
23mm	7658080
23.5mm	7658090
24mm	7658100
24.5mm	7658110
25mm	7658120
30mm	7658130
40mm	7658140
50mm	7658150
60mm	7658160
70mm	7658170
75mm	7658180
80mm	7658190
90mm	7658200
100mm	7658210

Caliper Calibration Gauge Sets

659 Series

FEATURES

- DIN / GB Standard
- Material: Hardened Steel
- Grades 0 and 1 are available



7659311

SPECIFICATIONS

For DIN Standard

Individual Blocks in Set	Grade	Code No.
30.0mm, 41.3mm, 131.4mm, Master Ring: Ø4.0mm, Ø25.0mm	0-150mm	1
41.3mm, 131.4mm, 243.5mm, Master Ring: Ø4.0mm, Ø25.0mm	0-300mm	0

For GB Standard

Individual Blocks in Set	Grade	Code No.
10mm, 20mm, 20mm, 41.2mm, 81.5mm, 121.8mm	0-150mm	1
10mm, 20mm, 20mm, 51.2mm, 121.5mm, 191.8mm	0-200mm	1
10mm, 20mm, 20mm, 101.2mm, 201.5mm, 291.8mm	0-300mm	1

Micrometer Calibration Gauge Sets

659 Series

FEATURES

- DIN / GB Standard
- Steel or Ceramic, Grade 1



7659711

SPECIFICATIONS

For DIN Standard

Blocks in Set	Range	Grade	Steel Set	Ceramic Set
			Code No.	Code No.
5.1mm, 10.3mm, 15.0mm, 20.2mm, 25.0mm	0-25mm	1	7659211	7659711

For GB Standard

Blocks in Set	Range	Grade	Steel Set	Ceramic Set
			Code No.	Code No.
5.12mm, 10.24mm, 15.36mm, 21.5mm, 25.0mm	0-25mm	1	7659221	7659721
5.12mm, 10.24mm, 15.36mm, 21.5mm, 25.0mm, 30.12mm, 35.24mm, 40.36mm, 46.5mm, 50.0mm, 55.12mm, 60.24mm, 65.36mm, 71.5mm, 75.0mm, 80.12mm, 85.24mm, 90.36mm, 96.5mm, 100mm	0-100mm	1	7659231	7659731

Gauge Block Accessories

660 Series

FEATURES

- The gauge block accessory set is used to firmly connect rectangular gauge blocks with the gauge holding devices. A series of universal precision measuring surfaces and base are provided to increase the measurement flexibility

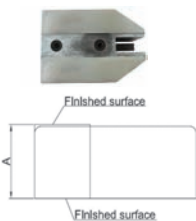
SPECIFICATIONS

Metric		12 pcs Set	17 pcs Set	
		7660010	7660011	
Description	Dimension	Individuals in Set	Individuals in Set	Code No.
Gauge Holder	0-50mm	1 pcs	1 pcs	7660101
	0-100mm	1 pcs	1 pcs	7660102
	100-200mm	1 pcs	1 pcs	7660103
Cylinder Jaws	R2 x 10mm	1 pair	1 pair	7660111
	R5 x 15mm	1 pair	1 pair	7660112
	R10 x 40mm	1 pair	1 pair	7660113
Scriber	15mm	1 pcs	1 pcs	7660123
Center Point	8 x 8mm	1 pcs	1 pcs	7660124
Parallel Jaw	8 x 19 x 100mm	-	1 pair	7660127
Base Block		1 pcs	1 pcs	7660050
Bevel Jaw	60mm	-	1 pair	7660062
Straight Edge	100mm	-	1 pcs	7660064

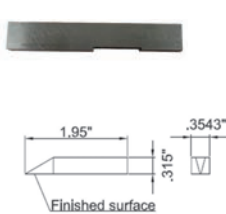


Inch				27 pcs Set Code No.	14 pcs Set Code No.	
#	Description/Use	Dimension	Accuracy	Individuals in Set	Individuals in Set	Code No.
A	Base Block	4 x 2-3/4 x 1.7"	Height: ± 0.0002 "	1 pcs	-	7660055
B	Scriber Point	1.950" Length	Flatness: ± 0.0002 "/2"	1 pcs	-	7660131
C	Center Point	2.05" Length	Concentricity: ± 0.0004 "	1 pcs	-	7660134
D	Points	2.05" Length	Concentricity: ± 0.0002 "	1 pair	-	7660135
E	Cylinder Jaws	Radius x A x B x C	Radius: ± 0.0003 "			
		.1"x.236"x1.58"x.315"	Pair: ± 0.0004 "	1 pair	1 pair	7660141
		.2"x.507"x1.965"x.315"		1 pair	1 pair	7660142
		.25"x.516"x2.366"x.315"		1 pair	1 pair	7660143
		.5"x.800"x2.945"x.512"		1 pair	1 pair	7660144
F	Flat Jaws	.75"x1.2"x4.92"x.768"		1 pair	-	7660145
		.750" Height, 6" Length	Parallelism: ± 0.0004 "	1 pair	-	7660137
		.0625" Ref. line	Line Height: ± 0.0002 "	1 pair	-	7660146
H	Jaws with Beveled End	.750" Height, 4" Length	Flatness: ± 0.0002 "/2"	1 pair	1 pair	7660148
		.750" Height, 6" Length		1 pair	1 pair	7660149
I	Holders	2.250" Capacity, 4.175" Length	Working surfaces	1 pcs	1 pcs	7660151
		4.000" Capacity, 6.5" Length	accurately ground	1 pcs	-	7660152
		6.000" Capacity, 8.5" Length	and lapped	1 pcs	1 pcs	7660153
		10.000" Capacity, 12" Length		1 pcs	-	7660154

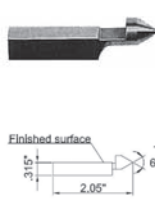
A. Base Block



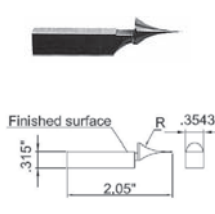
B. Scriber Point



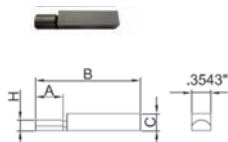
C. Center Point



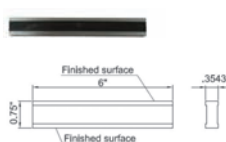
D. Points



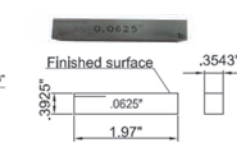
E. Cylinder Jaw



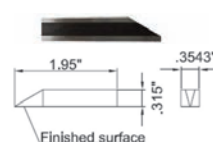
F. Flat Jaw



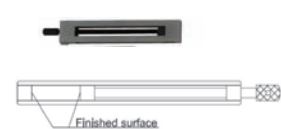
G. Jaws with Ref. Line



H. Jaws with Beveled End



I. Holder



Check Masters

660 / 661 Series

FEATURES

- Check masters are used to provide the incremental positioning error during the calibration of Coordinate Measuring Machines or machine tools
- Can be used in either vertical or horizontal position
- The individual gauging surfaces are made of zirconium based ceramic that resist corrosion and provide stability to size change over time



7660120



7661120

SPECIFICATIONS

				Horizontal	Vertical
Range	Pitch	Accuracy	Parallelism	Code No.	Code No.
Inch					
12"	1"/.5"	±.00005"	.00004"	7660121	7661121
24"	1"/.5"	±.00007"	.00006"	7660241	7661241
Metric					
300mm	20mm/10mm	±1.2µm	1µm	7660120	7661120
600mm	20mm/10mm	±1.8µm	1.5µm	7660240	7661240

Customized pitch for special purpose is available also

Plug Gauges and Ring Gauges

670 / 675 Series

FEATURES

- Hardened steel
- Plug Gauge Accuracy according to DIN 7162/7164
- Plug Gauge Sizes according to DIN 2245
- Ring Gauge Accuracy according to DIN 2250



7670107



7675100

SPECIFICATIONS

Plug Gauges

Size	H7 Code No.	H6 Code No.	H8 Code No.	H9 Code No.
2mm	7670027	7670026	7670028	7670029
3mm	7670037	7670036	7670038	7670039
4mm	7670047	7670046	7670048	7670049
5mm	7670057	7670056	7670058	7670059
6mm	7670067	7670066	7670068	7670069
7mm	7670077	7670076	7670078	7670079
8mm	7670087	7670086	7670088	7670089
9mm	7670097	7670096	7670098	7670099
10mm	7670107	7670106	7670108	7670109
11mm	7670117	7670116	7670118	7670119
12mm	7670127	7670126	7670128	7670129
13mm	7670137	7670136	7670138	7670139
14mm	7670147	7670146	7670148	7670149
15mm	7670157	7670156	7670158	7670159
16mm	7670167	7670166	7670168	7670169
17mm	7670177	7670176	7670178	7670179
18mm	7670187	7670186	7670188	7670189
19mm	7670197	7670196	7670198	7670199
20mm	7670207	7670206	7670208	7670209
21mm	7670217	7670216	7670218	7670219
22mm	7670227	7670226	7670228	7670229
23mm	7670237	7670236	7670238	7670239
24mm	7670247	7670246	7670248	7670249
25mm	7670257	7670256	7670258	7670259
26mm	7670267	7670266	7670268	7670269
27mm	7670277	7670276	7670278	7670279
28mm	7670287	7670286	7670288	7670289
30mm	7670307	7670306	7670308	7670309
32mm	7670327	7670326	7670328	7670329

Size	H7 Code No.	H6 Code No.	H8 Code No.	H9 Code No.
34mm	7670347	7670346	7670348	7670349
35mm	7670357	7670356	7670358	7670359
36mm	7670367	7670366	7670368	7670369
37mm	7670377	7670376	7670378	7670379
38mm	7670387	7670386	7670388	7670389
40mm	7670407	7670406	7670408	7670409
42mm	7670427	7670426	7670428	7670429
44mm	7670447	7670446	7670448	7670449
45mm	7670457	7670456	7670458	7670459
46mm	7670467	7670466	7670468	7670469
47mm	7670477	7670476	7670478	7670479
48mm	7670487	7670486	7670488	7670489
50mm	7670507	7670506	7670508	7670509
52mm	7670527	7670526	7670528	7670529
55mm	7670557	7670556	7670558	7670559
60mm	7670607	7670606	7670608	7670609
62mm	7670627	7670626	7670628	7670629
65mm	7670657	7670656	7670658	7670659
68mm	7670687	7670686	7670688	7670689
70mm	7670707	7670706	7670708	7670709
72mm	7670727	7670726	7670728	7670729
75mm	7670757	7670756	7670758	7670759
80mm	7670807	7670806	7670808	7670809
85mm	7670857	7670856	7670858	7670859
90mm	7670907	7670906	7670908	7670909
95mm	7670957	7670956	7670958	7670959
98mm	7670987	7670986	7670988	7670989
100mm	7671007	7671006	7671008	7671009

Ring Gauge

Size	Code No.
2.0mm	7675020
2.2mm	7675022
2.5mm	7675025
2.8mm	7675028
3.0mm	7675030
3.5mm	7675035
4.0mm	7675040
4.5mm	7675045
5.0mm	7675050
6.0mm	7675060
7.0mm	7675070
8.0mm	7675080
9.0mm	7675090
10mm	7675100

Size	Code No.
11mm	7675110
12mm	7675120
13mm	7675130
14mm	7675140
15mm	7675150
16mm	7675160
17mm	7675170
18mm	7675180
19mm	7675190
20mm	7675200
21mm	7675210
22mm	7675220
23mm	7675230
24mm	7675240

Size	Code No.
25mm	7675250
26mm	7675260
27mm	7675270
28mm	7675280
30mm	7675300
32mm	7675320
33mm	7675330
34mm	7675340
35mm	7675350
36mm	7675360
37mm	7675370
38mm	7675380
40mm	7675400
42mm	7675420

Size	Code No.
44mm	7675440
45mm	7675450
46mm	7675460
47mm	7675470
48mm	7675480
50mm	7675500
52mm	7675520
55mm	7675550
58mm	7675580
60mm	7675600
62mm	7675620
65mm	7675650
68mm	7675680
70mm	7675700

Size	Code No.
72mm	7675720
75mm	7675750
80mm	7675800
82mm	7675820
85mm	7675850
88mm	7675880
90mm	7675900
92mm	7675920
95mm	7675950
98mm	7675980
100mm	7676000

Thread Plug Gauges and Ring Gauges

68X Series

FEATURES

- ISO-Metric Thread
- Per DIN 13



7682145



7685145

7686145

SPECIFICATIONS

Size	Plug Gauge 6H Code No.	Ring Gauge"GO" 6g Code No.	Ring Gauge"NO GO" 6g Code No.
ISO-Metric Coarse Thread			
M2	7680020	7683021	7684020
M2.5	7680025	7683026	7684025
M3	7680030	7683031	7684030
M3.5	7680035	7683036	7684035
M4	7680042	7683041	7684040
M5	7680052	7683051	7684050
M6	7680062	7683061	7684060
M8	7680082	7683081	7684080
M9	7680092	7683091	7684090
M10	7680102	7683101	7684100
M12	7680122	7683121	7684120
M14	7680142	7683141	7684140
M16	7680162	7683161	7684160
M18	7680182	7683181	7684180
ISO-Metric Fine Thread			
M2.0x0.35	7682020	7685020	7686020
M2.2x0.35	7682028	7685028	7686028
M2.5x0.35	7682029	7685029	7686029
M3.0x0.35	7682030	7685030	7686030
M3.5x0.35	7682039	7685039	7686039
M4.0x0.35	7682040	7685040	7686040
M4.5x0.35	7682049	7685049	7686049
M5.0x0.35	7682050	7685050	7686050
M6.0x0.35	7682060	7685060	7686060
M4.0x0.5	7682041	7685041	7686041
M5.0x0.5	7682051	7685051	7686051
M6.0x0.5	7682061	7685061	7686061
M8.0x0.5	7682081	7685081	7686081
M10x0.5	7682101	7685101	7686101
M12x0.5	7682121	7685121	7686121
M6.0x0.75	7682062	7685062	7686062
M7.0x0.75	7682072	7685072	7686072
M8.0x0.75	7682082	7685082	7686082
M10x0.75	7682102	7685102	7686102
M12x0.75	7682122	7685122	7686122
M8.0x1	7682083	7685083	7686083
M9.0x1	7682093	7685093	7686093
M10x1	7682103	7685103	7686103
M11x1	7682113	7685113	7686113
M12x1	7682123	7685123	7686123
M14x1	7682143	7685143	7686143
M16x1	7682163	7685163	7686163
M18x1	7682183	7685183	7686183

Size	Plug Gauge 6H Code No.	Ring Gauge"GO" 6g Code No.	Ring Gauge"NO GO" 6g Code No.
M20	7680202	7683201	7684200
M22	7680222	7683221	7684220
M24	7680242	7683241	7684240
M27	7680272	7683271	7684270
M30	7680302	7683301	7684300
M33	7680332	7683331	7684330
M36	7680362	7683361	7684360
M39	7680392	7683391	7684390
M42	7680422	7683421	7684420
M45	7680452	7683451	7684450
M48	7680482	7683481	7684480
M52	7680522	7683521	7684520
M56	7680562	7683561	7684560
M60	7680602	7683601	7684600
M20x1	7682203	7685203	7686203
M21x1	7682213	7685213	7686213
M22x1	7682223	7685223	7686223
M23x1	7682233	7685233	7686233
M24x1	7682243	7685243	7686243
M25x1	7682253	7685253	7686253
M26x1	7682263	7685263	7686263
M27x1	7682273	7685273	7686273
M28x1	7682283	7685283	7686283
M30x1	7682303	7685303	7686303
M32x1	7682323	7685323	7686323
M33x1	7682333	7685333	7686333
M34x1	7682343	7685343	7686343
M35x1	7682353	7685353	7686353
M36x1	7682363	7685363	7686363
M38x1	7682383	7685383	7686383
M39x1	7682393	7685393	7686393
M40x1	7682403	7685403	7686403
M42x1	7682423	7685423	7686423
M45x1	7682453	7685453	7686453
M48x1	7682483	7685483	7686483
M50x1	7682503	7685503	7686503
M52x1	7682523	7685523	7686523
M55x1	7682553	7685553	7686553
M56x1	7682563	7685563	7686563
M58x1	7682583	7685583	7686583
M60x1	7682603	7685603	7686603
M62x1	7682623	7685623	7686623

Thread Plug Gauges and Ring Gauges

68X Series

	Plug Gauge 6H	Ring Gauge"GO" 6g	Ring Gauge"NO GO" 6g
Size	Code No.	Code No.	Code No.
ISO-Metric Fine Thread			
M64x1	7682643	7685643	7686643
M65x1	7682653	7685653	7686653
M68x1	7682683	7685683	7686683
M70x1	7682703	7685703	7686703
M72x1	7682723	7685723	7686723
M75x1	7682753	7685753	7686753
M76x1	7682763	7685763	7686763
M78x1	7682783	7685783	7686783
M80x1	7682803	7685803	7686803
M10x1.25	7682104	7685104	7686104
M12x1.25	7682124	7685124	7686124
M14x1.25	7682144	7685144	7686144
M12x1.5	7682125	7685125	7686125
M14x1.5	7682145	7685145	7686145
M16x1.5	7682165	7685165	7686165
M18x1.5	7682185	7685185	7686185
M20x1.5	7682205	7685205	7686205
M22x1.5	7682225	7685225	7686225
M24x1.5	7682245	7685245	7686245
M25x1.5	7682255	7685255	7686255
M26x1.5	7682265	7685265	7686265
M27x1.5	7682275	7685275	7686275
M28x1.5	7682285	7685285	7686285
M30x1.5	7682305	7685305	7686305
M32x1.5	7682325	7685325	7686325
M33x1.5	7682335	7685335	7686335
M34x1.5	7682345	7685345	7686345
M35x1.5	7682355	7685355	7686355
M36x1.5	7682365	7685365	7686365
M38x1.5	7682385	7685385	7686385
M40x1.5	7682405	7685405	7686405
M42x1.5	7682425	7685425	7686425
M45x1.5	7682455	7685455	7686455
M48x1.5	7682485	7685485	7686485
M50x1.5	7682505	7685505	7686505
M52x1.5	7682525	7685525	7686525
M55x1.5	7682555	7685555	7686555
M56x1.5	7682565	7685565	7686565
M58x1.5	7682585	7685585	7686585
M60x1.5	7682605	7685605	7686605
M62x1.5	7682625	7685625	7686625
M64x1.5	7682645	7685645	7686645
M65x1.5	7682655	7685655	7686655
M68x1.5	7682685	7685685	7686685
M70x1.5	7682705	7685705	7686705
M72x1.5	7682725	7685725	7686725
M75x1.5	7682755	7685755	7686755
M76x1.5	7682765	7685765	7686765
M78x1.5	7682785	7685785	7686785
M80x1.5	7682805	7685805	7686805
M18x2	7682186	7685186	7686186
M20x2	7682206	7685206	7686206
M22x2	7682226	7685226	7686226
M24x2	7682246	7685246	7686246
M26x2	7682266	7685266	7686266
M27x2	7682276	7685276	7686276

	Plug Gauge 6H	Ring Gauge"GO" 6g	Ring Gauge"NO GO" 6g
Size	Code No.	Code No.	Code No.
M28x2	7682286	7685286	7686286
M30x2	7682306	7685306	7686306
M32x2	7682326	7685326	7686326
M33x2	7682336	7685336	7686336
M34x2	7682346	7685346	7686346
M35x2	7682356	7685356	7686356
M36x2	7682366	7685366	7686366
M38x2	7682386	7685386	7686386
M39x2	7682396	7685396	7686396
M40x2	7682406	7685406	7686406
M42x2	7682426	7685426	7686426
M45x2	7682456	7685456	7686456
M48x2	7682486	7685486	7686486
M50x2	7682506	7685506	7686506
M52x2	7682526	7685526	7686526
M55x2	7682556	7685556	7686556
M56x2	7682566	7685566	7686566
M58x2	7682586	7685586	7686586
M60x2	7682606	7685606	7686606
M62x2	7682626	7685626	7686626
M64x2	7682646	7685646	7686646
M68x2	7682686	7685686	7686686
M70x2	7682706	7685706	7686706
M72x2	7682726	7685726	7686726
M75x2	7682756	7685756	7686756
M76x2	7682766	7685766	7686766
M78x2	7682786	7685786	7686786
M80x2	7682806	7685806	7686806
M82x2	7682826	7685826	7686826
M85x2	7682856	7685856	7686856
M88x2	7682886	7685886	7686886
M90x2	7682906	7685906	7686906
M92x2	7682926	7685926	7686926
M95x2	7682956	7685956	7686956
M98x2	7682986	7685986	7686986
M100x2	7683006	7685006	7686006
M30x3	7682307	7685307	7686307
M33x3	7682337	7685337	7686337
M36x3	7682367	7685367	7686367
M39x3	7682397	7685397	7686397
M40x3	7682407	7685407	7686407
M42x3	7682427	7685427	7686427
M45x3	7682457	7685457	7686457
M48x3	7682487	7685487	7686487
M50x3	7682507	7685507	7686507
M52x3	7682527	7685527	7686527
M55x3	7682557	7685557	7686557
M56x3	7682567	7685567	7686567
M58x3	7682587	7685587	7686587
M60x3	7682607	7685607	7686607
M62x3	7682627	7685627	7686627
M64x3	7682647	7685647	7686647
M65x3	7682657	7685657	7686657
M68x3	7682687	7685687	7686687
M70x3	7682707	7685707	7686707
M72x3	7682727	7685727	7686727

Whitworth Pipe Thread Gauges

690 Series

- Right hand, DIN ISO 228

SPECIFICATIONS

	Plug Gauge	Ring Gauge "GO"	Ring Gauge "NO GO"
Size	Code No.	Code No.	Code No.
G1/16	7690011	7690013	7690014
G1/8	7690021	7690023	7690024
G1/4	7690031	7690033	7690034
G3/8	7690041	7690043	7690044
G1/2	7690051	7690053	7690054
G5/8	7690061	7690063	7690064
G3/4	7690071	7690073	7690074
G7/8	7690081	7690083	7690084
G1	7690091	7690093	7690094

	Plug Gauge	Ring Gauge "GO"	Ring Gauge "NO GO"
Size	Code No.	Code No.	Code No.
G1-1/8	7690101	7690103	7690104
G1-1/4	7690111	7690113	7690114
G1-1/2	7690121	7690123	7690124
G1-3/4	7690131	7690133	7690134
G2	7690141	7690143	7690144
G2-1/4	7690151	7690153	7690154
G2-1/2	7690161	7690163	7690164
G2-3/4	7690171	7690173	7690174
G3	7690181	7690183	7690184

NPT Thread Gauges

690 Series

- NPT ANSI/ASME B.1.20.1*

	Plug Gauge	Ring Gauge
Size	Code No.	Code No.
1/16"-27	7690401	7690403
1/8"-27	7690411	7690413
1/4"-27	7690421	7690423
3/8"-18	7690431	7690433
1/2"-14	7690441	7690443
3/4"-14	7690451	7690453

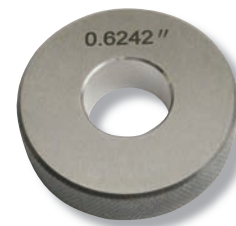
	Plug Gauge	Ring Gauge
Size	Code No.	Code No.
1"-11.5	7690461	7690463
1-1/4"-11.5	7690471	7690473
1-1/2"-11.5	7690481	7690483
2"-11.5	7690491	7690493
2-1/2"-8	7690501	7690503
3"-8	7690511	7690513

Inch Master Setting Ring Gauges

679 Series

FEATURES

- Hardened steel



Size	Accuracy	Taper/Ovality	Code No.
0.100"	±0.00004"	0.000012"	7679010
0.160"	±0.00005"	0.000015"	7679020
0.175"	±0.00005"	0.000015"	7679030
0.225"	±0.00005"	0.000015"	7679040
0.240"	±0.00005"	0.000015"	7679050
0.350"	±0.00005"	0.000015"	7679060
0.500"	±0.00006"	0.000019"	7679070
0.650"	±0.00006"	0.000019"	7679080
1.000"	±0.00008"	0.000024"	7679090

Size	Accuracy	Taper/Ovality	Code No.
1.400"	±0.00008"	0.000028"	7679100
1.800"	±0.00008"	0.000028"	7679110
2.000"	±0.00010"	0.000031"	7679120
2.800"	±0.00010"	0.000031"	7679130
3.600"	±0.00012"	0.000039"	7679140
5.000"	±0.00016"	0.000047"	7679150
7.000"	±0.00016"	0.000047"	7679160
9.000"	±0.00019"	0.000055"	7679170
11.000"	±0.00023"	0.000062"	7679180

ANSI Inch Thread Plug Gauges and Ring Gauges

695 Series

FEATURES

- Gold aluminum handles
- ANSI Standard



7695411



7695410



7695412



7695325

SPECIFICATIONS

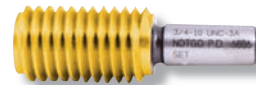
	Plug Gauge "GO" (Class 2B)	Plug Gauge "NO GO" (Class 2B)	Plug Gauge Double End (Class 2B)	Ring Gauge "GO" (Class 2A)	Ring Gauge "NO GO" (Class 2A)
Size	Code No.	Code No.	Code No.	Code No.	Code No.
0 - 80	7695010	7695011	7695012	7695014	7695015
1 - 64	7695020	7695021	7695022	7695024	7695025
1 - 72	7695030	7695031	7695032	7695034	7695035
2 - 56	7695040	7695041	7695042	7695044	7695045
2 - 64	7695050	7695051	7695052	7695054	7695055
3 - 48	7695060	7695061	7695062	7695064	7695065
3 - 56	7695070	7695071	7695072	7695074	7695075
4 - 40	7695080	7695081	7695082	7695084	7695085
4 - 48	7695090	7695091	7695092	7695094	7695095
5 - 40	7695100	7695101	7695102	7695104	7695105
5 - 44	7695110	7695111	7695112	7695114	7695115
6 - 32	7695120	7695121	7695122	7695124	7695125
6 - 40	7695130	7695131	7695132	7695134	7695135
8 - 32	7695140	7695141	7695142	7695144	7695145
8 - 36	7695150	7695151	7695152	7695154	7695155
10 - 24	7695160	7695161	7695162	7695164	7695165
10 - 32	7695170	7695171	7695172	7695174	7695175
12 - 24	7695180	7695181	7695182	7695184	7695185
12 - 28	7695190	7695191	7695192	7695194	7695195
1/4 - 20	7695200	7695201	7695202	7695204	7695205
1/4 - 28	7695210	7695211	7695212	7695214	7695215
1/4 - 32	7695220	7695221	7695222	7695224	7695225
5/16 - 18	7695230	7695231	7695232	7695234	7695235
5/16 - 24	7695240	7695241	7695242	7695244	7695245
5/16 - 32	7695250	7695251	7695252	7695254	7695255
3/8 - 16	7695260	7695261	7695262	7695264	7695265
3/8 - 24	7695270	7695271	7695272	7695274	7695275
3/8 - 32	7695280	7695281	7695282	7695284	7695285
7/16 - 14	7695290	7695291	7695292	7695294	7695295
7/16 - 20	7695300	7695301	7695302	7695304	7695305
7/16 - 28	7695310	7695311	7695312	7695314	7695315
1/2 - 13	7695320	7695321	7695322	7695324	7695325
1/2 - 20	7695330	7695331	7695332	7695334	7695335
1/2 - 28	7695340	7695341	7695342	7695344	7695345
9/16 - 12	7695350	7695351	7695352	7695354	7695355
9/16 - 18	7695360	7695361	7695362	7695364	7695365
9/16 - 24	7695370	7695371	7695372	7695374	7695375
5/8 - 11	7695380	7695381	7695382	7695384	7695385
5/8 - 18	7695390	7695391	7695392	7695394	7695395
5/8 - 24	7695400	7695401	7695402	7695404	7695405
3/4 - 10	7695410	7695411	7695412	7695414	7695415
3/4 - 16	7695420	7695421	7695422	7695424	7695425
3/4 - 20	7695430	7695431	7695432	7695434	7695435
7/8 - 9	7695440	7695441	7695442	7695444	7695445
7/8 - 14	7695450	7695451	7695452	7695454	7695455
7/8 - 20	7695460	7695461	7695462	7695464	7695465
1 - 8	7695470	7695471	7695472	7695474	7695475
1 - 12	7695480	7695481	7695482	7695484	7695485

TiN-Coated ANSI Inch Thread Plug Gauges

695 Series

FEATURES

- GO and NO GO are Tin-coated
- ANSI Standard



SPECIFICATIONS

	Plug Gauge GO (Class 2B)	Plug Gauge NO GO (Class 2B)	Plug Gauge Double End (Class 2B)
Size	Code No.	Code No.	Code No.
0 - 80	7695017	7695018	7695019
1 - 64	7695027	7695028	7695029
1 - 72	7695037	7695038	7695039
2 - 56	7695047	7695048	7695049
2 - 64	7695057	7695058	7695059
3 - 48	7695067	7695068	7695069
3 - 56	7695077	7695078	7695079
4 - 40	7695087	7695088	7695089
4 - 48	7695097	7695098	7695099
5 - 40	7695107	7695108	7695109
5 - 44	7695117	7695118	7695119
6 - 32	7695127	7695128	7695129
6 - 40	7695137	7695138	7695139
8 - 32	7695147	7695148	7695149
8 - 36	7695157	7695158	7695159
10 - 24	7695167	7695168	7695169
10 - 32	7695177	7695178	7695179
12 - 24	7695187	7695188	7695189
12 - 28	7695197	7695198	7695199
1/4 - 20	7695207	7695208	7695209
1/4 - 28	7695217	7695218	7695219
1/4 - 32	7695227	7695228	7695229
5/16 - 18	7695237	7695238	7695239
5/16 - 24	7695247	7695248	7695249
5/16 - 32	7695257	7695258	7695259
3/8 - 16	7695267	7695268	7695269
3/8 - 24	7695277	7695278	7695279
3/8 - 32	7695287	7695288	7695289
7/16 - 14	7695297	7695298	7695299
7/16 - 20	7695307	7695308	7695309
7/16 - 28	7695317	7695318	7695319
1/2 - 13	7695327	7695328	7695329
1/2 - 20	7695337	7695338	7695339
1/2 - 28	7695347	7695348	7695349
9/16 - 12	7695357	7695358	7695359
9/16 - 18	7695367	7695368	7695369
9/16 - 24	7695377	7695378	7695379
5/8 - 11	7695387	7695388	7695389
5/8 - 18	7695397	7695398	7695399
5/8 - 24	7695407	7695408	7695409
3/4 - 10	7695417	7695418	7695419
3/4 - 16	7695427	7695428	7695429
3/4 - 20	7695437	7695438	7695439
7/8 - 9	7695447	7695448	7695449
7/8 - 14	7695457	7695458	7695459
7/8 - 20	7695467	7695468	7695469
1 - 8	7695477	7695478	7695479
1 - 12	7695487	7695488	7695489

ANSI Metric Thread Plug Gauges and Ring Gauges

696 Series

FEATURES

- Gold aluminum handles
- ANSI Standard

SPECIFICATIONS

	Plug Gauge "GO" (6H)	Plug Gauge "NO GO" (6H)	Plug Gauge Double End (6H)	Ring Gauge "GO" (6g)	Ring Gauge "NO GO" (6g)
Size	Code No.	Code No.	Code No.	Code No.	Code No.
M1.6 X 0.35	7696010	7696011	7696012	7696014	7696015
M1.8 X 0.35	7696020	7696021	7696022	7696024	7696025
M2 X 0.4	7696030	7696031	7696032	7696034	7696035
M2.2 X 0.45	7696040	7696041	7696042	7696044	7696045
M2.5 X 0.45	7696050	7696051	7696052	7696054	7696055
M3 X 0.5	7696060	7696061	7696062	7696064	7696065
M3.5 X 0.6	7696070	7696071	7696072	7696074	7696075
M4 X 0.7	7696080	7696081	7696082	7696084	7696085
M4.5 X 0.75	7696090	7696091	7696092	7696094	7696095
M5 X 0.8	7696100	7696101	7696102	7696104	7696105
M6 X 1	7696110	7696111	7696112	7696114	7696115
M7 X 1	7696120	7696121	7696122	7696124	7696125
M8 X 1	7696130	7696131	7696132	7696134	7696135
M8 X 1.25	7696140	7696141	7696142	7696144	7696145
M10 X 1.25	7696150	7696151	7696152	7696154	7696155
M10 X 1.5	7696160	7696161	7696162	7696164	7696165
M12 X 1.25	7696170	7696171	7696172	7696174	7696175
M12 X 1.75	7696180	7696181	7696182	7696184	7696185
M14 X 1.5	7696190	7696191	7696192	7696194	7696195
M14 X 2	7696200	7696201	7696202	7696204	7696205
M16 X 1.5	7696210	7696211	7696212	7696214	7696215
M16 X 2	7696220	7696221	7696222	7696224	7696225
M18 X 1.5	7696230	7696231	7696232	7696234	7696235
M18 X 2.5	7696240	7696241	7696242	7696244	7696245
M20 X 1.5	7696250	7696251	7696252	7696254	7696255
M20 X 2.5	7696260	7696261	7696262	7696264	7696265
M22 X 1.5	7696270	7696271	7696272	7696274	7696275
M24 X 2	7696280	7696281	7696282	7696284	7696285
M24 X 3	7696290	7696291	7696292	7696294	7696295
M27 X 2	7696300	7696301	7696302	7696304	7696305
M27 X 3	7696310	7696311	7696312	7696314	7696315
M30 X 2	7696320	7696321	7696322	7696324	7696325
M30 X 3.5	7696330	7696331	7696332	7696334	7696335
M33 X 2	7696340	7696341	7696342	7696344	7696345
M33 X 3.5	7696350	7696351	7696352	7696354	7696355
M36 X 3	7696360	7696361	7696362	7696364	7696365
M36 X 4	7696370	7696371	7696372	7696374	7696375
M39 X 3	7696380	7696381	7696382	7696384	7696385
M39 X 4	7696390	7696391	7696392	7696394	7696395

TiN-Coated ANSI Metric Thread Plug Gauges

696 Series

FEATURES

- GO and NO GO are Tin-coated
- ANSI Standard

SPECIFICATIONS

	Plug Gauge "GO" (6H)	Plug Gauge "NO GO" (6H)	Plug Gauge Double End (6H)
Size	Code No.	Code No.	Code No.
M1.6 X 0.35	7696017	7696018	7696019
M1.8 X 0.35	7696027	7696028	7696029
M2 X 0.4	7696037	7696038	7696039
M2.2 X 0.45	7696047	7696048	7696049
M2.5 X 0.45	7696057	7696058	7696059
M3 X 0.5	7696067	7696068	7696069
M3.5 X 0.6	7696077	7696078	7696079
M4 X 0.7	7696087	7696088	7696089
M4.5 X 0.75	7696097	7696098	7696099
M5 X 0.8	7696107	7696108	7696109
M6 X 1	7696117	7696118	7696119
M7 X 1	7696127	7696128	7696129
M8 X 1	7696137	7696138	7696139
M8 X 1.25	7696147	7696148	7696149
M10 X 1.25	7696157	7696158	7696159
M10 X 1.5	7696167	7696168	7696169
M12 X 1.25	7696177	7696178	7696179
M12 X 1.75	7696187	7696188	7696189
M14 X 1.5	7696197	7696198	7696199
M14 X 2	7696207	7696208	7696209
M16 X 1.5	7696217	7696218	7696219
M16 X 2	7696227	7696228	7696229
M18 X 1.5	7696237	7696238	7696239
M18 X 2.5	7696247	7696248	7696249
M20 X 1.5	7696257	7696258	7696259
M20 X 2.5	7696267	7696268	7696269
M22 X 1.5	7696277	7696278	7696279
M24 X 2	7696287	7696288	7696289
M24 X 3	7696297	7696298	7696299
M27 X 2	7696307	7696308	7696309
M27 X 3	7696317	7696318	7696319
M30 X 2	7696327	7696328	7696329
M30 X 3.5	7696337	7696338	7696339
M33 X 2	7696347	7696348	7696349
M33 X 3.5	7696357	7696358	7696359
M36 X 3	7696367	7696368	7696369
M36 X 4	7696377	7696378	7696379
M39 X 3	7696387	7696388	7696389
M39 X 4	7696397	7696398	7696399

Individual Inspection Gauge Balls

679 Series

FEATURES

- Chrome steel hardened to 63 HRC.
- Ground and lapped.
- Grade 25 accuracy - AFBMA certified.
- Certificate NOT supplied with individual gauge balls.



SPECIFICATIONS

Size	Code No.	Size	Code No.
1/16"	7679220	1/2"	7679380
3/32"	7679240	17/32"	7679390
1/8"	7679250	9/16"	7679400
9/64"	7679260	19/32"	7679410
5/32"	7679270	5/8"	7679420
3/16"	7679280	21/32"	7679430
7/32"	7679290	11/16"	7679440
1/4"	7679300	23/32"	7679450
9/32"	7679310	3/4"	7679460
5/16"	7679320	25/32"	7679470
11/32"	7679330	13/16"	7679480
3/8"	7679340	7/8"	7679490
13/32"	7679350	15/16"	7679500
7/16"	7679360	1"	7679510
15/32"	7679370		

Size	Code No.	Size	Code No.
1mm	7679570	14mm	7679700
2mm	7679580	15mm	7679710
3mm	7679590	16mm	7679720
4mm	7679600	17mm	7679730
5mm	7679610	18mm	7679740
6mm	7679620	19mm	7679750
7mm	7679630	20mm	7679760
8mm	7679640	21mm	7679770
9mm	7679650	22mm	7679780
10mm	7679660	23mm	7679790
11mm	7679670	24mm	7679800
12mm	7679680	25mm	7679810
13mm	7679690		

Precision Inspection Gauge Ball Sets

679 Series

FEATURES

- Meets all grade 25 AFBMA standards.
- Chrome alloy steel, hardened to 63 HRC.
- Surface finish to 1.5 Micro-Inches.
- Within 0.0001"/0.0025 mm of actual size.
- Spherical accuracy within 0.000025"/0.0006 mm.
- Inches - includes: 32 pairs in Inch sizes 1/32" to 1".
- Metric - includes: 25 pairs in Metric sizes 1mm to 25 mm in 1 mm increments.



SPECIFICATIONS

	QTY	Description	Code No.
Ball Set - Inches	32 Pair	1/32" to 1"	7679901
Ball Set - Metric	25 Pair	1mm to 25 mm in 1 mm increments	7679900

36 Pc. Round Space Block Set

679 Series

FEATURES

- For quickly setting stops and set ups in lathes, milling machines, drill presses, etc. Also excellent for setting sine bars.
- Each block marked for size. Overall diameter: 0.750".
- 1/4"-28 threaded hole through center of block.
- Working surfaces hardened to HRC 58-60.
- Working surfaces precision ground and lapped to ± 0.000050 ".
- 4 connecting screws supplied to form desired length.



SPECIFICATIONS

Description	Included	Code No.
36 PCS Set	.050, .060, .0625, .070, .080, .090, .100, .101, .102, .103, .104, .105, .106, .107, .108, .109, .110, .120, .125, .130, .140, .150, .160, .170, .180, .190, .200, .300, .400, .500, .600, .700, .800, .900, 1.00 (2 ea.)	7679950

Thread Measuring Wire Set

697 Series

FEATURES

- 48 wires — 16 different sizes.
- Measures all threads from 3 - 48 threads per inch.
- Measures all metric threads from 0.5 mm to 6 mm.
- Also measures ACME threads.
- Laminated chart included.

SPECIFICATIONS

Code No.
7697300



Individual Pin Gauges

FEATURES

- Black oxide coating prevents corrosion and shows gauge wear.

SPECIFICATIONS

Size	Tolerance	Bright Finish	Black Oxide Finish
		Code No.	Code No.
0.011" - 1.000" x 0.001 step	+0/-0.0002 Minus	7210011 to 7211000	7230011 to 723-1000
0.011" - 1.000" x 0.001 step	+0.0002/-0 Plus	7220011 to 7221000	7240011 to 7241000



Pin Gauge Sets

697 Series

FEATURES

- For quick and accurate measurements. Measure hole sizes, slot widths, calculate distances between holes, use as Go/NoGo gaging, etc.
- Each set includes pin gauge holder.
- Furnished in attractive molded plastic case.
- Class ZZ guaranteed to 0.0002"/0.005 mm tolerance limit.
- Inspected with equipment which has been calibrated and is traceable to NIST.
- Marked with size and direction of tolerance on gauge over 0.060"/1.5 mm.
- Hardened drill rod RC 60-62, 2 inches long.
- 10 micron finish or better.
- Black oxide coating prevents corrosion and shows gauge wear.
- Certificate of Accuracy included.

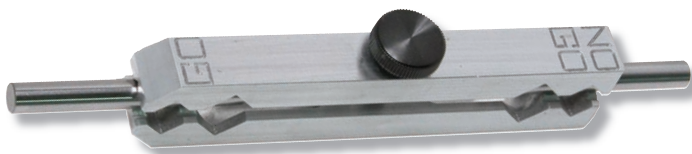


SPECIFICATIONS

			Accuracy: +0.0002" -0"	Accuracy: -0.0002" +0"
Qty	Range	Surface	Code No.	Code No.
Inch Sets				
50	0.011" - 0.060" x 0.001 step	Bright Finish	7697010	7697012
190	0.061" - 0.250" x 0.001 step	Bright Finish	7697020	7697022
250	0.251" - 0.500" x 0.001 step	Bright Finish	7697030	7697032
125	0.501" - 0.625" x 0.001 step	Bright Finish	7697040	7697042
125	0.626" - 0.750" x 0.001 step	Bright Finish	7697050	7697052
82	0.751" - 0.832" x 0.001 step	Bright Finish	7697060	7697062
84	0.833" - 0.916" x 0.001 step	Bright Finish	7697070	7697072
84	0.917" - 1.000" x 0.001 step	Bright Finish	7697080	7697082
50	0.011" - 0.060" x 0.001 step	Black Oxide Finish	7697090	7697092
190	0.061" - 0.250" x 0.001 step	Black Oxide Finish	7697100	7697102
250	0.251" - 0.500" x 0.001 step	Black Oxide Finish	7697110	7697112
125	0.501" - 0.625" x 0.001 step	Black Oxide Finish	7697120	7697122
125	0.626" - 0.750" x 0.001 step	Black Oxide Finish	7697130	7697132
82	0.751" - 0.832" x 0.001 step	Black Oxide Finish	7697140	7697142
84	0.833" - 0.916" x 0.001 step	Black Oxide Finish	7697150	7697152
84	0.917" - 1.000" x 0.001 step	Black Oxide Finish	7697160	7697162
Metric Sets			Accuracy: +0.005mm -0	Accuracy: -0.005mm +0
55	0.2 - 1.28mm x 0.02mm step	Bright Finish	7697200	7697202
185	1.30 - 4.98mm x 0.02mm step	Bright Finish	7697210	7697212
250	5.00 - 9.98mm x 0.02mm step	Bright Finish	7697220	7697222
200	10.00 - 13.98mm x 0.02mm step	Bright Finish	7697230	7697232
125	14.00 - 16.48mm x 0.02mm step	Bright Finish	7697240	7697242
125	16.50 - 18.98mm x 0.02mm step	Bright Finish	7697250	7697252
100	19.00 - 20.98mm x 0.02mm step	Bright Finish	7697260	7697262
75	21.00 - 22.48mm x 0.02mm step	Bright Finish	7697270	7697272
75	22.50 - 23.98mm x 0.02mm step	Bright Finish	7697280	7697282
75	24.00 - 25.48mm x 0.02mm step	Bright Finish	7697290	7697292

Pin Gauge Handles

697 Series



FEATURES

- Machined from solid aluminum, this premium handle can hold diameters from 1/32" to 1/2".
- Go and No Go marked on gauge.
- Completely self contained, does not use any bushings.
- Available in plain Aluminum, or Green, Purple, Red, or Yellow Anodized Aluminum

SPECIFICATIONS

Pin Gauge Handles	Code No.
Aluminum	7697400
Green Anodized Aluminum	7697401
Purple Anodized Aluminum	7697402
Red Anodized Aluminum	7697403
Yellow Anodized Aluminum	7697404



Pin Gauge Handles

697 Series



FEATURES

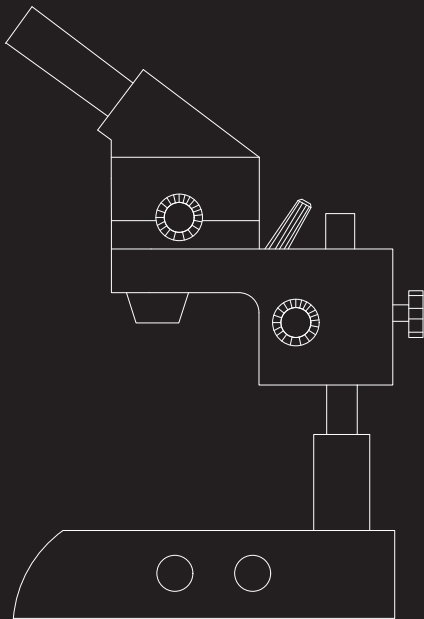
- Comfortable, ergonomically designed handle for pin gauge.
- Can be used with GO pin (green) on one end, NO GO pin (red) on opposite end.

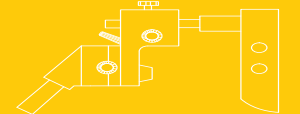
SPECIFICATIONS

Gage Size Range	Code No.
0.011" - 0.060"	7697410
0.061" - 0.250"	7697411
0.251" - 0.500"	7697412
0.501" - 0.625"	7697413
0.626" - 0.750"	7697414
0.751" - 0.832"	7697415
0.833" - 0.916"	7697416
0.917" - 1.000"	7697417

Testers & Optical Instrument

183	Surface Roughness Standards
183	Digital Coating Thickness Gauges
184	Rockwell Type Hardness Testers
184	Shore Scale A Durometer
185	Brinell Hardness Testers
186	Impact Hardness Testers
186	Hardness Test Blocks
186	Hardness Tester Penetrators
187	Workshop Measuring Microscopes WMS
188	Workshop Measuring Microscopes QZW1
189	Vertical Profile Projectors
190	12" Optical Comparator
191	Microscopes
195	Microscope Accessories
195	LED Ring Light





Surface Roughness Standards

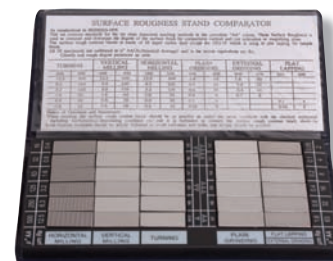
506 Series

FEATURES

- Set of 30 specimens, 7/8" x 3/8" electro formed, solid nickel
- Used for the visual comparison of surface roughness

SPECIFICATIONS

Code No.	7506010	
Qty.	Contents	Roughness
2 pcs	Flat Lapping	0.05; 0.1µm (2; 4µ")
4 pcs	Reaming	0.2; 0.4; 0.8; 1.6µm (8; 16; 32; 63µ")
6 pcs	Grinding	0.05; 0.1; 0.2; 0.4; 0.8; 1.6µm (2; 4; 8; 16; 32; 63µ")
6 pcs	Horizontal Milling	0.4; 0.8; 1.6; 3.2; 6.3; 12.5µm (16; 32; 63; 125; 250; 500µ")
6 pcs	Vertical Milling	0.4; 0.8; 1.6; 3.2; 6.3; 12.5µm (16; 32; 63; 125; 250; 500µ")
6 pcs	Turning	0.4; 0.8; 1.6; 3.2; 6.3; 12.5µm (16; 32; 63; 125; 250; 500µ")



Digital Coating Thickness Gauges

506 Series

FEATURES

- Fast, non-destructive, precise measurement of various coating thicknesses and material thicknesses. Widely used in manufacturing where a coating has been applied to a base material or applications where the wall thickness requires measurement.
- The system incorporates magnetic and eddy current technologies for multipurpose measurements. By selecting the appropriate probe the thickness of the non-ferrous coatings on ferrous base metals or non-ferrous coatings on non-ferrous metal substrates.
- Data storage capacity of 20 groups of 50 actual measured values.
- Metric / Inch conversion
- Working voltage: 3V (2, 5 alkaline batteries).
- Two individual probe calibration methods are supported. calibration compensation of system error increases the measurement accuracy.
- Measuring status indicator displays the measuring status and type of measurement.
- Measured values and user information are shown on a large, easy-to-read LCD. a back lit display ensures easy reading of the data in poorly-lit environments.
- Battery level indicator provides the remaining battery voltage.
- Auto sleep and auto power off functions increases battery life.
- Compact aluminum case provides storage protection.

SPECIFICATIONS

Range	Resolution	Probes	Remark	Code No.
0-1250 µm	0.1 µm	N1	For measuring thickness of non-conductive coating on non-magnetic metal substrate	7506100
0-1250 µm	0.1 µm	F1	For measuring thickness of non-magnetic coating on magnetic metal substrate	7506101
0-1250 µm	0.1 µm	F400	For measuring thickness of non-magnetic coating on magnetic metal substrate	7506102
0-10000 µm	0.1 µm	F10	For measuring thickness of non-magnetic coating on magnetic metal substrate	7506103

STANDARD ACCESSORIES

- Probe 1 pcs
- Calibration Foils 5 pcs
- Zero plate 1 pcs
- Manual 1 pcs
- Alkaline Battery 2 pcs





Rockwell Type Hardness Testers

640 Series

FEATURES

- For testing the hardness of various materials to determine the Rockwell hardness to scales A, B and C
- Unit is designed with mechanical loads for precise hardness readings
- Conform to the requirements of ASTM E18, ISO 6508-2 and GB/T 230.2 standards
- Readings provided to a minimum resolution 0.5HR

STANDARD ACCESSORIES

- Diamond cone penetrator 1 pcs
- V-notch anvil 1 pcs
- Small flat anvil 1 pcs
- Large flat anvil 1 pcs
- Rockwell standard 5 pcs
- 1/16" steel ball penetrator 1 pcs
- Instruction manual 1 pcs



7640010



7640020

SPECIFICATIONS

Range	Test Force	Test Height	Throat Depth	Code No.
20-88HRA, 20-100HRB, 20-70HRC	588.4, 980.7, 1471N (60, 100, 150kgf)	170mm	135mm	7640010
20-88HRA, 20-100HRB, 20-70HRC	588.4, 980.7, 1471N (60, 100, 150kgf)	400mm	160mm	7640020

Shore Scale A Durometer

640 Series

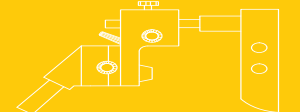
FEATURES

- Used for precisely determining the Shore hardness value of rubber & plastic materials

SPECIFICATIONS

Code No.	7640060
Range	20-90HA
Test Force	0.55-8.06N (56-82 lbf)
Dimension	110 x 58 x 30mm
Weight	Approx. 500g





Brinell Hardness Testers

640 Series

FEATURES

- Used for determining the Brinell hardness of various metals
- A "V" anvil is supplied for testing round work pieces
- Readings provided to a minimum resolution 0.5HR
- Mechanical models are designed with reversing switch
- Digital Models provide automatic operation reducing manual testing errors
- The digital model has a large LCD screen

STANDARD ACCESSORIES

- | | |
|---|------------|
| 1, Tungsten carbide ball penetrator Ø2.5mm, Ø5mm, Ø10mm | 1 pcs each |
| 2, V-notch anvil | 1 pcs |
| 3, Small flat anvil | 1 pcs |
| 4, Large flat anvil | 1 pcs |
| 5, Brinell standardized block | 2 pcs |
| 6, 20X readout microscope | 1 pcs |
| 7, Instruction manual | 1 pcs |



7640101



7640105

SPECIFICATIONS

Code No.	7640101	7640105
	Mechanical models	Digital models
Range	8-650HBW	4-650HBW
Test Force	1838.8, 2451.8, 7355.3, 9807, 29421N (187.5, 250, 750, 1000, 3000kgf)	612.9, 980.7, 1225.9, 1838.8, 2451.8, 4903.5, 7355.3, 9807, 14710.5, 29421N (62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 1500, 3000kgf)
Max. height of test piece	230mm	240mm
Depth of throat	120mm	150mm
Power Supply	380V AC or 220V AC. 50 or 60 Hz	220V AC or 110V AC. 50 or 60 Hz
Dimension	700 x 268 x 842mm	630 x 250 x 1000mm
Weight	Approx. 210kg	Approx. 210kg



Impact Hardness Testers

640 Series

FEATURES

- Large screen (128×64 dot matrix LCD), allows for clear display of all functions and parameters
- Hardness test can be taken at any angle including inverted.
- A wide measuring range supports the hardness of all metallic materials. Hardness results are directly displayed in HRB, HRC, HV, HB, HS, HL hardness scales.
- Six impact devices are available for special application with automatic impact device recognition.
- Diameter of carbide ball: 3mm.
- Large capacity memory storage of 500 sub groups. Stored information including single measured value, mean value, test data, impact direction, impact times, material and hardness scale are available.
- Five languages are supported with 640-17-X series: English, French, German, Italian and Spanish; 640-16-X series are Chinese display.
- Upper and lower limit can be preset. An audio alarm will automatically sound when the reading is outside of the preset limits.
- Battery voltage information is displayed including the charge status.
- Calibration function is available.
- USB1.1 port allows for information to be uploaded directly to a pc.
- High speed thermal printer allows for the readings to be immediately printed.
- 6V Ni-MH rechargeable battery are supplied. the batteries can be charged with the integrated charger. Up to 150 hours of continuous operation battery life between charges. (eL off and no printing)
- Automatic power off after five minutes.



SPECIFICATIONS

Range	Accuracy	Application Range	Impact devices	Impact Capacity	Code No.	
					Chinese	ENG/FRA/GER/ITA/SPA
(170-960) HLD (17-68.5) HRC (19-651) HB	HLD: ±5 HRC: ±1 HB: ±4	Test the normal smooth , flat surface	D	11 Nmm	7640161	7640171
		Test hole or hollow cylindrical	DC	11 Nmm	7640162	7640172
		Test small ,light,thin parts and surface of hardened layer	C	2.7 Nmm	7640163	7640173
		Test groove or re-entrant surface	D+15	11 Nmm	7640164	7640174
		Test slender narrow groove or hole	DL	11 Nmm	7640165	7640175
		Test large,thick,heavy and rough surface steel	G	90 Nmm	7640166	7640176

STANDARD ACCESSORIES

- Impact device 1 pcs
- Hardness test block 1 pcs
- Small support ring 1 pcs
- Cleaning brush 1 pcs
- Battery Charger 1 pcs
- Paper for printing 1 pcs
- Manual 1 pcs
- DataPro software 1 pcs
- Communication cable 1 pcs

Hardness Test Blocks

640 Series

SPECIFICATIONS

Description	Range of Hardness	Dimension	Weight	Code No.
Brinell standardized Block	200 ± 50 HBS 100 ± 25 HBS	100 X 80 X 16mm	1kg	7640800
Rockwell standardized Block	80 - 88 HRA 85 - 95 HRB 20 - 30 HRC 35 - 55 HRC 60 - 70 HRC	60 X 40 X 10mm	0.19kg	7640810
Leeb standardized Block	790 ± 40 HLD	Ø90 X 55mm	2.7kg	7640820



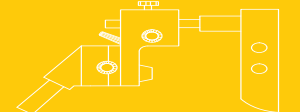
Hardness Tester Penetrators

640 Series

SPECIFICATIONS

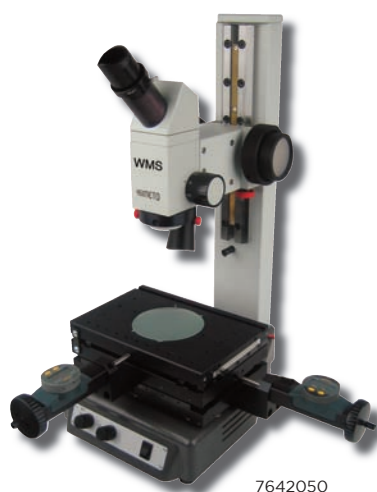
Description	Specification	Code No.
Penetrator for Rockwell Hardness Tester	120° Diamond cone penetrator Ø1.588mm (1/16") steel ball penetrator	7640830
Penetrator for Brinell Hardness Tester	Ø2.5, 5, 10mm Tungsten carbide ball penetrator	7640840



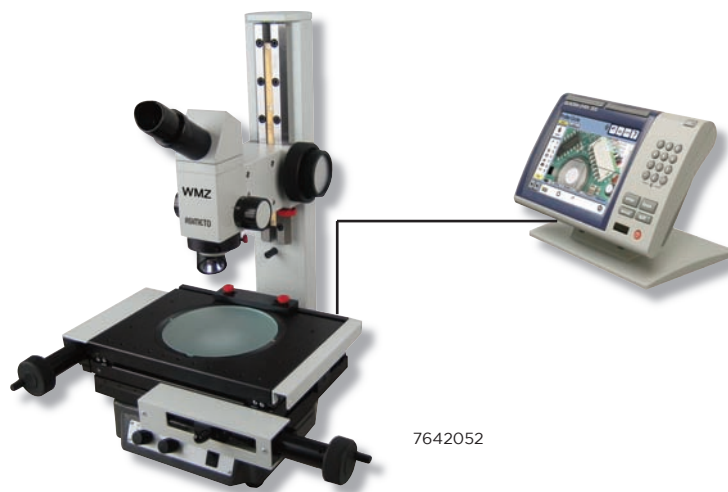


Workshop Measuring Microscopes

642 Series



7642050



7642052

FEATURES

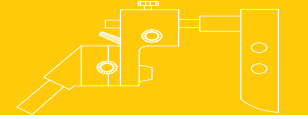
- High quality optics for light intensive and sharp three dimensional images
- Focusing with an ergonomic hand wheel, can be mounted either side, ideal for either a left or right handed operator
- Zoom lens with continuous variable magnification and/or fixed lens
- Prism head can be tilted to 45° with dipodic adjustment
- LED ring light, dimmable
- LED back light, dimmable
- Robust cast stand
- Stable XY table precision mounted

Characteristics of the QC 200:

- Resolution 0.001mm / 0.0001"
- Calculation of geometric elements
- Point, line, radius, circle, angle
- Learning program
- Graphical display of measuring result
- LCD display diagonal 150mm
- Switch over mm / inch
- Reset to zero, correction of linear fault
- Interface RS 232 C
- Printer output parallel and serial

SPECIFICATIONS

Code No.	7642050	7642052
Measuring range X/Y	50 / 50 mm	200 / 150 mm
Measuring table dimensions	150 x 150 mm	150 x 150 mm
Max. table load	15 kg	15 kg
Measuring system	Micrometer Head	QC200
- Readings	0.001 mm	0.001 mm
- Error limit	8 µm	8 µm
- Repeatability	2 µm	2 µm
Magnification Variable zoom	8 - 40X	8 - 40X
Field of view	23 - 4 mm	23 - 4 mm
Working distance	70 mm	70 mm
Max. height of test piece	150 mm	150 mm
Illumination	LED Incident and transmitted light, individually adjustable	LED Incident and transmitted light, individually adjustable
Interfaces	USB / Opto RS232	Interface RS 232 C
Dimensions H x B x T	535 x 410 x 470 mm	535 x 410 x 470 mm



Workshop Measuring Microscope QZW1

642 Series

FEATURES

- QZW1 CCD color camera
- Zoom lens, magnification 0.7X - 4.5X
- $MPE1 = 3 + (L/100) \mu m$

Measuring table

- Measuring range 200 mm x 100 mm
- Max. height of test piece 150 mm
- Quick and fine adjustment
- Max. table load 20 kg

Illumination

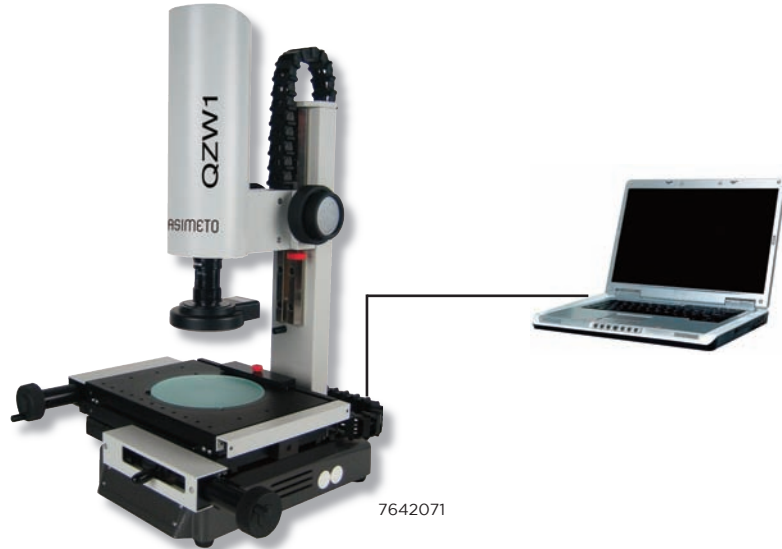
- LED back light, dimmable
- LED ring light, segments each can be individually switched on/off or dimmed
- Laser pointer for positioning assistance

Further measuring ranges

- 100 mm x 100 mm
- 250 mm x 170 mm
- 400 mm x 250 mm

Options

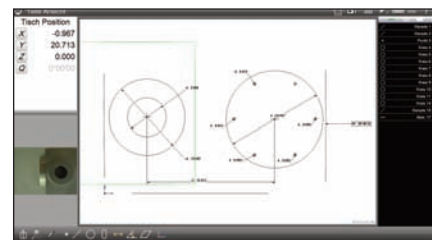
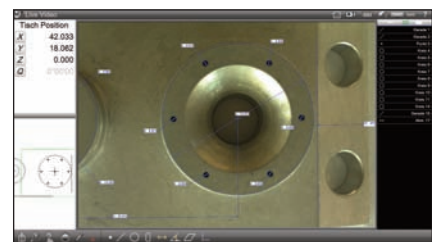
- Z-Axis can be extended up to 200 mm
- Measuring system for Z-Axis
- Telemetric LED back light illumination



7642071

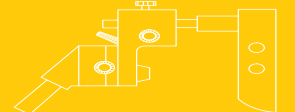
Characteristics of the M3 software

- Designed for Multi-Touch software control.
- Advanced video probe toolbox.
- programmable light control.
- Advanced Edge Teach.
- Graphics-based "Part View" constructions
- Quick Annotate and Markup.
- Geometric tolerancing.
- Feature Detail Graphics.
- DXF Overlay and FOV capability.
- Part programs and playback
- Flexible Report Content and Formatting
- Industry leading Operating System platform (All-IN-One Touch PC WIN7)



SPECIFICATIONS

Code No.	7642071
Measuring table dimensions	200 x 100 mm
Measuring system	M3 software



Vertical Profile Projectors

641 Series

FEATURES

- Used to inspect the profiles of a wide variety of parts and components
- Designed to provide an excellent quality image with accurate magnification
- The error of the contour measuring is under 0.08% deviation
- A convenient foot switch transfers the coordinate data to the data processing system
- Provides the data processing system and foot-switch, which are convenient to output and gather the data

STANDARD ACCESSORIES

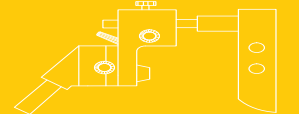
1 Main body	1 pcs
2 Lens	1 pcs
3 Corresponding semi-reflective (Equipped With the Lens)	1 pcs
4 Spring Fixture of screen	4 pcs
5 2m Power wire	1 pcs
6 Instruction manual	1 pcs
7 Certification	1 pcs
8 Packaging list	1 pcs
9 4A/5 x 20 Fuse	5 pcs
10 24V 150W Halogen bulb	2 pcs



7641010

SPECIFICATIONS

Code No.		7641010 / 7641011			7641020 / 7641021		
Imaging direction		Direct / Indirect Image			Direct / Indirect Image		
Working Table	Stage Size (mm)	340 x 152			404 x 228		
	Glass Table Size (mm)	196 x 96			260 x 160		
	X-Axis Travel (mm)	150			200		
	Y-Axis Travel (mm)	50			100		
	Z-Axis Travel (mm)	90 (for focusing)			90 (for focusing)		
	Measuring Accuracy	4.0+L/25 Qm L: Measuring Length (mm)			4.0+L/25 Qm L: Measuring Length (mm)		
Projector Screen	Resolution (X/Y-axis)	0.001 mm (1μm) or 0.0005 mm (0.5μm)			0.001 mm (1Qm) or 0.0005 mm (0.5μm)		
	Dimension	12" (Ø312 mm), usable range > Ø300 mm			12" (Ø312 mm), usable range > Ø300 mm		
	Rotary Range	0°-360°			0°-360°		
Objective Lens	Angle Resolution	1' or 0.01°			1' or 0.01°		
	Magnification	10X (Standard)	20X (Option)	50X (Option)	10X (Standard)	20X (Option)	50X (Option)
	Object View (mm)	Ø30	Ø15	Ø6	Ø30	Ø15	Ø6
Data Processing System	Working Distance (mm)	77.7	44.3	38.4	77.7	44.3	38.4
	DC-3000 multi-function data processing system: Coordinate skew, mm/inch conversion, ABS/INC conversion, Zero setting, calculation, 0°, 90°, 270°, 360° conversion, linear compensation						
	Transmission and reflection light source: 24V/150W-halogen lamp						
Illumination							
Power		110V/220V(AC), 50/60Hz, 400W total power					
Light Source Cooling		Forced air cooling					
Instruments dimension (mm)		770 x 550 x 1100			770 x 550 x 1100		
Weight (kgs)		130			160		
Option	Rotary Table				Code No.: 7641050		
	Swivel Center Support				Code No.: 7641051		
	Edge Detector				Code No.: 7641052		

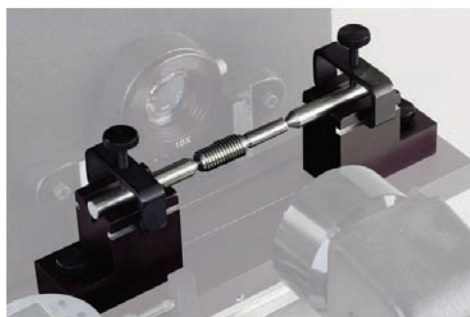


12" Optical Comparators

641 Series

FEATURES

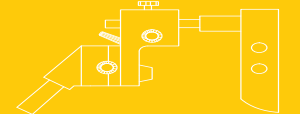
- With 2 dial Gauges (1" for vertical and 2" table travel)
- Large 12" x 3" t-slot stage with 6" horizontal and 2-1/2" vertical travel
- 12" Diameter protractor screen
- Rotatable screen with fine adjustment
- Vernier resolution of 5 minutes
- Overlay clips
- Selectable high and low intensity profile illumination switch
- Digital indicator and V-Blocks are not included



7641099

SPECIFICATIONS

Model	Description	Code No.
Type I	Lens 10X	7641090
Type II	Lens 10X, 20X and 40X	7641092
Option Part:		
V-Blocks	1 pair	7641099



Microscope XC-100L



7642010

FEATURES

- Sharp stereo erect image over a wide field of view. It is suitable for spot examination of machinery industry, paper making, print and textile, etc. The product features small size, light weight, nice design and easy operation

STANDARD ACCESSORIES

- Eyepiece, Lamp, Instruction manual

Code No.	7642010	7642030
Graduation	0.01mm	0.025mm
Magnification	100X	40X
Field of View	1.6mm	4.2mm
Working Distance	7mm	18mm
Eyepiece	WF10X, Graduation: 0.025 mm	WF10X, Graduation: 0.025 mm
Objective	10X	4X
Illumination System	Pen Illumination	Pen Illumination
Spare Part	Description	Code No.
Objective	4X	7642100

Microscope MS-2



7642011

FEATURES

- Sharp stereo erect image over a wide field of view
- Rotatable objective, 45° inclined and 360° rotatable

STANDARD ACCESSORIES

- Eyepiece, Glass stage, Instruction manual

Code No.	7642011	7642031
Magnification	20X	32X
Field of View	8.5mm	5.0mm
Working Distance	80mm	50mm
Eyepiece	WF10X / 20mm	WF16X / 20mm
Objective	2X	2X
Illumination System	N/A	N/A
Spare Part	Description	Code No.
Eyepiece	WF16X	7642101
Eyepiece	WF10X, Graduation: 0.025 mm	7642102

Stereo-Microscope ST 40



7642012

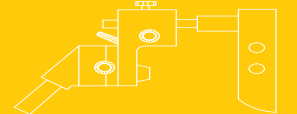
FEATURES

- Sharp stereo erect image over a wide field of view
- Binocular Tube. 45° inclined binocular head with locked-in eyepiece. The left ocular-tube with diopter adjustment ± 5 dp, The interpupillary distance is between 55-75mm
- Pillar style stand

STANDARD ACCESSORIES :

Eyepiece 1 pair, Eyepiece cover 1 pair, Lamp, Glass stage, Power wire, Instruction manual

Code No.	7642012	7642032
Magnification	20X / 40X	40X / 80X
Field of View	10mm / 5mm	6.5mm / 3.2mm
Working Distance	76mm	76mm
Eyepiece	WF10X	WF20X
Objective	2X / 4X	2X / 4X
Illumination System	12V/10W double-lighting	12V/10W double-lighting



Stereo-Microscope ST 45



7642013

FEATURES

- Sharp stereo erect image over a wide field of view
- Binocular Tube. 45° inclined binocular head with locked-in eyepiece. The left ocular-tube with diopter adjustment $\pm 5\text{dp}$. The interpupillary distance is between 55-75mm
- Arm curved style stand

STANDARD ACCESSORIES

- Eyepiece 1 pair, Eyepiece cover 1 pair, Lamp, Glass stage, Power wire, Instruction manual

Code No.	7642013	7642033
Magnification	20X / 40X	40X / 80X
Field of View	10mm / 5mm	6.5mm / 3.2mm
Working Distance	76mm	76mm
Eyepiece	WF10X / 20mm	WF20X
Objective	2X / 4X	2X / 4X
Illumination System	12V/10W Halogen and Incandescent	12V/10W Halogen and Incandescent

Stereo-Microscope ST 50



7642014

FEATURES

- Sharp stereo erect image over a wide field of view
- Dovetail inserted style objective with locked-in device ensures easy replacement
- With adjustable arm, which provides a wider field of view higher; could provide a larger working distance

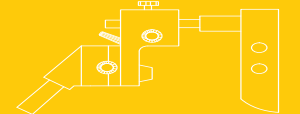
STANDARD ACCESSORIES

- Eyepiece 1 pair, Eyepiece cover 1 pair, lamp, power wire, Instruction manual

Code No.	7642014
Magnification	20X
Field of View	10mm
Working Distance	230mm
Eyepiece	WF10X / 20mm
Objective	2X
Illumination System	12V/10W Incandescent

Accessory for ST 40/ST 45

Spare Part	Description	Code No.
Eyepiece	WF15X / 15mm	7642103
Eyepiece	WF20X / 10mm	7642104
Eyepiece	WF10X , Graduation: 0.05 mm	7642105



Stereo-Microscope LAB 1



7642015

FEATURES

- Sharp stereo image over a wide field of view
- 90° rotational objective, Binocular Tube: 360°rotating and 45°inclined
- Pillar style stand

STANDARD ACCESSORIES

- Eyepiece 1 pair, Eyepiece cover 1 pair, Lamp, Glass stage, Power wire, Instruction manual

Code No.	7642015	
Magnification	20X / 40X	
Field of View	10mm / 5mm	
Working Distance	99mm / 81mm	
Eyepiece	WF10X	
Objective	2X / 4X	
Illumination System	12V/10W Adjustable double-lighting	
Spare Part	Description	Code No.
Eyepiece	WF15X / 15mm	7642103
Eyepiece	WF20X / 10mm	7642104
Eyepiece	WF10X (1 pc), Graduation: 0.05 mm	7642105

Stereo-Zoom Microscope LAB 2



7642016

FEATURES

- Sharp stereo image over a wide field of view
- Binocular Tube: 360°rotating and 45°inclined
- Pillar style stand

STANDARD ACCESSORIES

- Eyepiece 1 pair, Eyepiece cover 1 pair, Lamp, Glass stage, Power wire, Instruction manual

Code No.	7642016	7642036
Magnification	10X-40X	20X-80X
Field of View	23mm - 5.5mm	11.5mm - 3mm
Working Distance	91mm	28mm
Eyepiece	SWF10X	SWF10X
Objective	1X-4X	1X-4X Auxiliary objective 2X
Illumination System	12V/10W Adjustable double-lighting	12V/10W Adjustable double-lighting
Spare Part	Description	Code No.
Eyepiece	WF15X / 15mm	7642103
Eyepiece	WF20X / 10mm	7642104
Eyepiece	WF10X, Graduation: 0.05 mm	7642105
Auxiliary objective	2X	7642113



Stereo-Zoom Microscope SZM 1/2



7642021
SZM 1



7642022
SZM 2

FEATURES

- Sharp stereo erect image over a wide field of view
- 45° inclined and 360° rotational binocular head
- Pillar style
- SZM 2 models come with the interface connecting with CCD or digital camera

STANDARD ACCESSORIES

- Eyepiece 1 pair, Eyepiece cover 1 pair, lamp, power wire, Instruction manual

Code No.	7642021 / 7642022	7642041 / 7642042
Models	SZM 1 / SZM 2	SZM 1 / SZM 2
Magnification	7X-45X	28X-180X
Field of View	30mm-4mm	7.5mm-1mm
Working Distance	86mm	25.5mm
Eyepiece	WF10X / 20mm	WF20X / 20mm
Objective	0.7X-4.5X	0.7X-4.5X Auxiliary objective 2X
Illumination System	12V/10W Adjustable double-lighting	12V/10W Adjustable double-lighting

Stereo-Zoom Microscope SZM 3/4



7642023
SZM 3



7642029
SZM 4

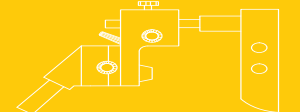
FEATURES

- Sharp stereo erect image over a wide field of view
- Binocular Tube: 360° rotating and 45° inclined and dioptic compensation.
- With adjustable arm, which provides a wider field of view higher; could provide a larger working distance
- Packaging: Foam box plus carton box
- SZM 4 models come with the interface connecting with CCD or digital camera

STANDARD ACCESSORIES

- Eyepiece 1 pair, Eyepiece cover 1 pair, Lamp, Glass stage, Power wire, Instruction manual

Code No.	7642023 / 7642029	7642043 / 7642039
Models	SZM 3 / SZM 4	SZM 3 / SZM 4
Magnification	7X-45X	28X-180X
Field of View	30mm-4mm	7.5mm-1mm
Working Distance	86mm	25.5mm
Eyepiece	WF10X / 20mm	WF10X / 20mm
Objective	0.7X-4.5X	0.7X-4.5X Auxiliary objective 2X
Illumination System	N/A	N/A



Accessories for SZM1, SZM2, SZM3, SZM4



7642115

Spare Part	Description	Code No.
Eyepiece	WF15X / 15 mm	7642107
Eyepiece	WF20X / 10 mm	7642108
Eyepiece	WF10X, Graduation: 10 mm / 0.1mm	7642109
Adoption Lens	0.5X	7642110
Adoption Lens	2.0X	7642111
CCD - Camera	1.3 million pixels	7642115
Adapter (c-mount)	1 X	7642122
Adapter (c-mount)	1/2 X	7642120
Auxiliary objective	2X	7642112

LED Ring Lights

FEATURES

- For illumination of workpieces
- Model #642-20-2 is solid one piece design. with control box inside . LED lights can be divided into 4 segments
- Model #642-20-1 comes with a separate control box, LED light is adjustable



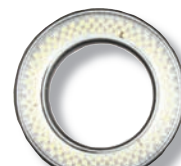
Back

Front

7642202



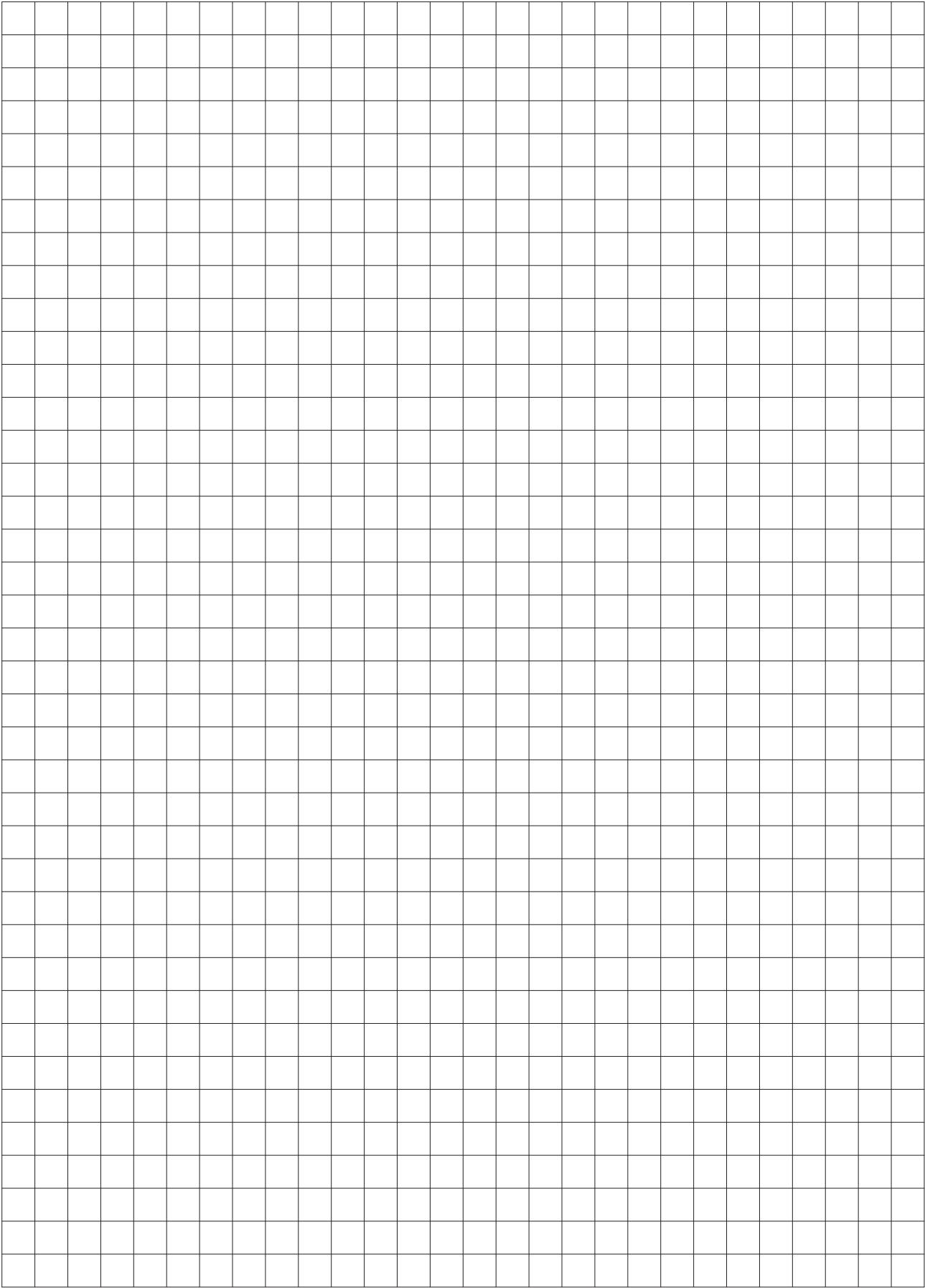
Control box



Front

7642201

Dimension	Segments	Code No.
Ø60mm	1	7642201
Ø60mm	4	7642202



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