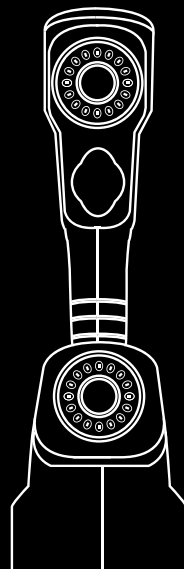
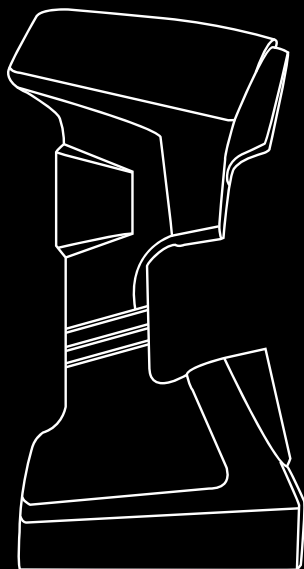
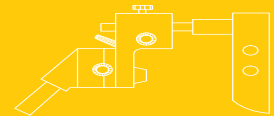


Testers & Optical Instrument

- 170 Archer Portable 3D Scanner
- 171 Standard 2D Vision Measuring System (Manual)
- 172 Standard 2D Vision Measuring System (CNC)
- 173 Multi Sensor Measuring System (CNC)
- 174 3D Image Coordinate Measuring Machine Micromea443
- 175 3D Image Coordinate Measuring Machine 648-04-1P
- 176 2D Height Gauge
- 177 Concentricity Gauges
- 178 Vertical Profile Projectors
- 179 Surface Roughness Tester
- 179 Surface Roughness Standards
- 180 Digital Coating Thickness Gauges
- 180 Ultrasonic Thickness Gauge
- 181 Impact Hardness Testers
- 181 Shore Scale A Durometer
- 182 Rockwell Type Hardness Testers
- 182 Digital Twin Rockwell Hardness Tester
- 183 Touch Screen Rockwell Type Hardness Testers
- 183 Brinell Hardness Testers
- 184 Hardness Test Blocks
- 184 Hardness Tester Penetrators
- 185 Microscope





Archer Portable 3D scanner



FEATURES

- Asimeto's Archer is a revolutionary industrial portable laser scanner, which can provide faster scanning speed and more accurate result at the same time. Also it provides ultra fine scanning mode for the ultra fine detail structure
- The optimized operation provides auto alignment scanning mode, the workpiece and scanner can be moved freely during scanning process. It can be scanned easily, no matter how complex the structure or shape is. The machine can be brought to anywhere, and work onsite easily at workshop, lab, in the car, even outdoor
- Laser scanning will not be affected by the environment and scanned material. It can directly scan on any surface including black color or shining metal, and save lots of cleaning time after the scanning process
- Metrology-Grade stability, accuracy and repeatability
- Environment will not affect the accuracy
- Moving speed will not affect the accuracy
- Don't need any other equipment except PC
- Small and light design
- Can complete scanning process in limited area
- Easy to be used
- Software can be controlled over the button on the machine
- Real time scanning

STANDARD SCANNING MODE (RED LASER)

Code No.	666-03-0	666-13-0	666-07-0	666-17-0
Machine Model	Archer 3	Archer 3U	Archer 3	Archer 7U
Scanning Speed	265,000 points/sec		480,000 points/sec	
Scanning Area	225x250 mm		27 x250 mm	
Scanning Distance	200 ~ 450 mm			
Best Scanning Distance	300 mm			
Depth of Field	250 mm			
Resolution	0.05 mm			
Accuracy	0.03 mm			
Volumetric Accuracy	0.02 mm + 0.08 mm/m		0.02 mm + 0.06 mm/m	
Light Source	3 red laser crosses + 1 extra line		7 red laser crosses + 1 extra line	
Weight	0.95 kg			
Dimension	160 x 98 x 320 mm			
Part Size Range (recommended)	10 ~ 6000 mm			
Output Format	.stl, .ply, .xyz, .dae, .fbx, .ma, .obj, .asc			
Laser Class	2M (eye-safe)			
Connection Standard	Gigabit Ethernet			
Operating Environment	Temperature : -10 ~40 C°, Humidity : 10~90 %			

FINE SCANNING MODE (BLUE LASER)

	Fine Scanning Mode
Scanning Speed	320,000 points/sec
Scanning Distance	100 ~ 200 mm
Best Scanning Distance	150 mm
Depth of Field	100 mm
Resolution	0.02 mm
Accuracy	0.02 mm
Light Source	5 parallel blue laser lines

Note: Only available for Ultra series



Standard 2D Vision Measuring System (Manual)



MVS2010

FEATURES

- High precision marble base and mechanical structure provide great stability and rigidity.
- High precision toothless rod and fast moving locking device, to ensure hysteresis erroris within 2μm.
- High accuracy A grade optical linear scale with precision working stage, to ensure the accuracy is within 2.5+L / 200μm.
- High definitive detented zoom lens and high resolution color digital camera, to ensure clear image without distortion.
- With programmable surface 4-ring 8-division LED Cold Illumination and contour LED parallel illumination and internal intelligent light adjustment, it can automatic control the brightness in the 4-ring 8-division.

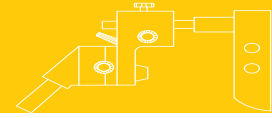
SPECIFICATIONS

Code No.	647-01-0	647-02-0	647-03-0	647-04-0	647-05-0
Model No.	MVS2010	MVS2515	MVS3020	MVS4030	MVS5040
Metal Table	408x308mm	408x308mm	458x358mm	608x470mm	708x470mm
Glass Table	306x198mm	306x198mm	356x248mm	456x348mm	556x348mm
X/Y-axis Travel	200x100mm	250x150mm	300x200mm	400x300mm	500x400mm
Dimension (WxDxH)	790x617x1000mm	790x617x1000mm	838x667x1000mm	1002x817x1043mm	1002x867x1043mm
Net Weight	175Kg	175Kg	185Kg	350Kg	380Kg
Z-axis Travel	High-Precision Linear Guide , Working Travel 200mm				
X/Y/Z-axis Travel	0.0005mm				
X/Y-axis Accuracy*	≤2.5+L/200 (μm)				
Repeatability	2μm				
Base and Pillar	High Accuracy Marble				
Illumination System (Software Adjustment)	Surface: Stepless Adjustable 4-Ring 8-Division LED Cold Illumination				
	Contour: LED Parallel Illumination				
	LED Laser Navigation Lights				
CCD Camera	High Resolution 700TV Color CCD Camera				
Zoom lens* *	6.5X High Resolution Detented Zoom Lens				
	Magnification: 0.7X-4.5X; Video Magnification: 26X-172X				
Working Environment	Temperature: 20°C±2°C, Change Range < 2°C/hr				
	Humidity: 30% - 80%				
	Vibration< 0.002g, <15Hz				

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

** Magnification is approximate value, it is related to the dimension of monitor and resolution.

Customers can choose 0.5X or 2X optional objective. and realize image magnification: 13X - 86X or 52X -344X.



Standard 2D Vision Measuring System (CNC)



CVS5040B

FEATURES

- High precision marble base and mechanical structure provide great stability and rigidity.
- Strutter of 3020 (P) / 4030 (P) is different from that of big size machine (over5040B (P)).
- Four-axis CNC fully auto close loop control, auto measurement.
- Open type linear scale, high accuracy, great stability.
- Precision linear guide, grinding ball screw and AC servo motor, ensure accuracy stability
- Imported high definition color industry camera, ensure clear observation and stable measurement requirement.
- Programmable 5-ring 8-division LED surface illumination, contour parallel LED illumination, can realize 256 grade brightness adjustment intelligently.
- Can set auto measurement, and process batch measurement with high efficiency.

SPECIFICATIONS

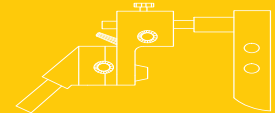
Code No.	647-03-1	647-04-1	647-05-1	647-06-1	647-08-1
Model No.	CVS3020	CVS4030	CVS5040B	CVS6050B	CVS8060B
X/Y-axis Travel	300x200mm	400x300mm	500x400mm	600x500mm	800x600mm
Load Capacity	25Kg	25Kg	30Kg	30Kg	30Kg
Dimension (WxDxH)	1200x780x1650mm	1350x880x1650mm	1450x950x1650mm	1600x1050x1650mm	2000x1200x1650mm
Packing Dimension	1360x1030x1650mm	1460x1100x1900mm	1690x1300x2000mm	1800x1400x2000mm	2300x1700x2000mm
Weight	380Kg	450Kg	780Kg	1380Kg	2000Kg
Z-axis Travel	200mm				
X/Y/Z 3-axis Linear Scale	High Precision Linear Scale, Resolution: 0.0005mm		High Precision Linear Scale, Resolution: 0.0001mm		
Guidance Mode	Precision Linear Guide, Double-Track Double Silder Guide		Imported H Grade Linear Guide: Double-Track Double Slider Guide		
Operation Mode	Joystick Controller, Mouse Operation, Automatic Detection Program				
Measurement Accuracy*	XY-axis: $\leq 2.2+L/200$ (μm)		XY-axis: $\leq 1.8+L/200$ (μm)		
	Z-axis: $\leq 5+L/200$ (μm)				
Repeatability	$\pm 2\mu\text{m}$				
Video System* *	Hight definition 1/3" Color CCD Camera		1/2" Color CCD Camera		
	6.5X Continue Click Zoom Lens; Optical Magnification: 0.7X - 4.5X		6.5X Automatic Zoom Lens; Optical Magnification: 0.7X-4.5X		
Field of View* **	0.7X - 4.5X				
	8.57x6.86x5.14 - 1.33x1.07x0.80		11.43x9.14x6.86 - 1.78x1.42x1.07		
Illumination	Contour	LED Parallel Contour Illumination			
	Surface	5-Ring 8-Division 0-255 Grade Continue Adjustable			

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

** Magnification is approximate value, it is related to the dimension of monitor and resolution.

Customers can choose 0.5X or 2X optional objective. and realize image magnification: 13X - 86X or 52X - 344X.

***Optional lens magnification : 0.7X, 1X, 2.0X, 3.0X, 4.0X, 4.5X



Multi Sensor Measuring System (CNC)



CVS5040B

FEATURES

- High precision marble base and mechanical structure provide great stability and rigidity.
- Strueter of 3020 (P) / 4030 (P) is different from that of big size machine (over5040B (P)).
- Four-axis CNC fully auto close loop control, auto measurement.
- Open type linear scale, high accuracy, great stability.
- Precision linear guide, grinding ball screw and AC servo motor, ensure accuracy stability
- Imported high definition color industry camera, ensure clear observation and stable measurement requirement.
- Programmable 5-ring 8-division LED surface illumination, contour parallel LED illumination, can realize 256 grade brightness adjustment intelligently.
- Equipped with Renishaw touch probe, realize 3D measurement.
- Can set auto measurement, and process batch measurement with high efficiency.

SPECIFICATIONS

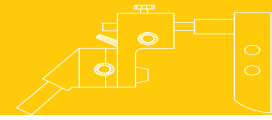
Code No.	647-03-1P	647-04-1P	647-05-1P	647-06-1P	647-08-1P
Model No.	CVS3020P	CVS4030P	CVS5040BP	CVS6050BP	CVS8060BP
X/Y-axis Travel	300x200mm	400x300mm	500x400mm	600x500mm	800x600mm
Load Capacity	25Kg	25Kg	30Kg	30Kg	30Kg
Dimension (WxDxH)	1200x780x1650mm	1350x880x1650mm	1450x950x1650mm	1600x1050x1650mm	2000x1200x1650mm
Packing Dimension	1360x1030x1650mm	1460x1100x1900mm	1690x1300x2000mm	1800x1400x2000mm	2300x1700x2000mm
Weight	380Kg	450Kg	780Kg	1380Kg	2000Kg
Z-axis Travel	200mm				
X/Y/Z 3-axis Linear Scale	High precision Linear Scale, Resolution: 0.0005mm		High Precision Linear Scale, Resolution: 0.0001mm		
Guidance Mode	Precision Linear Guide, Double-Track Double Slider Guide		Imported H Grade Linear Guide: Double-Track Double Slider Guide		
Operation Mode	Joystick Controller, Mouse Operation, Automatic Detection Program				
Measurement Accuracy*	XY-axis: $\leq 2+L/200$ (μm) Z-axis: $\leq 5+L/200$ (μm)		XY-axis: $\leq 1.8+L/200$ (μm)		
Repeatability	$\pm 2\mu\text{m}$				
Video System* *	High Definition 1/3" Color CCD Camera		1/2" Color CCD Camera		
	6.5X Continue Click Zoom Lens; Optical Magnification: 0.7X - 4.5X		6.5X Automatic Zoom Lens; Optical Magnification: 0.7X-4.5X		
Field of View* **	0.7X - 4.5X				
	8.57x6.86x5.14 - 1.33x1.07x0.80		11.43x9.14x6.86 - 1.78x1.42x1.07		
Illumination	Contour	LED Parallel Contour Illumination			
	Surface	5-Ring 8-Division 0-255 Grade Continue Adjustable			

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

** Magnification is approximate value, it is related to the dimension of monitor and resolution.

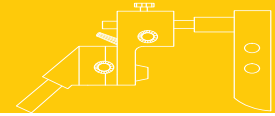
Customers can choose 0.5X or 2X optional objective, and realize image magnification: 13X - 86X or 52X - 344X.

***Optional lens magnification : 0.7X, 1X, 2.0X, 3.0X, 4.0X 4.5X



3D Image Coordinate Measuring Machine





3D Image Coordinate Measuring Machine 648-04-1P

FEATURES

- Four-axis CNC fully auto loop control, auto measurement;
- Marble base and pillar, stable and reliable;
- Imported open type linear scale, resolution is 0.1um, high accuracy, great stability;
- Imported P-grade linear guide, precision grinding ball screw and AC servo motor, ensure accuracy stability of system position;
- Imported high definition color industry camera, ensure clear observation and stable measurement requirement;
- 6.5X continue auto zoom lens, precision auto zoom, only need to make pixel calibration once time;
- Programmable 5-ring 8-division LED surface illumination, contour parallel LED illumination, can realize 256 grade brightness adjustment intelligently;
- With proprietary fully auto measuring software Rational vue, powerful function, simple operation;
- Optional touch probe and laser probe, it can also be customized according to customer request.

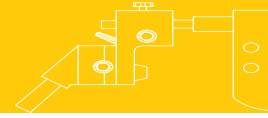
SPECIFICATIONS

Code No.		648-04-1P					
Model No.		CVM4040BP					
X/Y-axis Travel		40 x400mm					
Z-axis Travel		300mm					
X/Y/Z 3-axis Linear Scale		Resolution: 0.0001mm					
Guidance Mode		High-Precision Double-Track Linear Guide					
Operation Mode		Joystick Controller, Mouse Operation, Automatic Detection Program					
Probe System		TP20 and MCR20 Probe Change System					
Measurement Accuracy*		XY-axis: $\leq 2+L/200$ (μm)					
		Z-axis: $\leq 3+L/200$ (μm)					
Repeatability		31.8um					
Video System* *		6.5X Automatic Zoom Lens; Optical Magnification: 0.7X-4.5X, Video Magnification: 20X-129X(21.5"Monitor)					
Field of View (mm)	Lens Magnification	0.7X	1X	2.0X	3.0X	4X	4.5X
	1/2"CCD	11.43x9.14x6.86	8.00x6.40x4.80	4.00x3.20x2.40	2.67x2.13x1.60	2.00x1.60x1.20	1.78x1.42x1.07
Illumination	Contour	LED Parallel Contour Illumination					
	Surface	5-Ring 8-Division 0-255 Grade Continue Adjustable					
Software System		RationalVue MS					
Load Capacity		30Kg					
Working Environment		Temperature 20°C \pm 2°C, Humidity Range <2°C /hr, Humidity 30-80%, Vibration <0.002g, <15Hz					
Power		220V/50Hz/10A					
Dimension		1600x1050x1650mm					
Packing Dimension		1800x1400x2000mm					
Weight		1380Kg					

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

**Magnification is approximate value, it is related to the dimension of monitor and resolution.

Customers can choose 0.5X or 2X optional objective, and realize image magnification: 10X-64.5X or 40X-258X.



2D Height Gauge

Value^{Plus} 300/600

628 Series



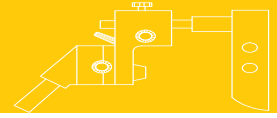
FEATURES

- New generation Value^{Plus} 2D height gauge provide 300mm or 600mm measuring range
- New designed probe hold system, measuring range can be extended to 570mm and 870mm
- New designed 8mm diameter probe hold system, compatible with popular standard probe on the market
- New designed operating system and measuring software provide more stability and reliability
Measuring result can be displayed on the 6.4" color screen

SPECIFICATIONS

	Value ^{Plus} 300	Value ^{Plus} 600
Item Code	628-12-0	628-24-0
Measuring Range (in/mm)	12" / 300	24" / 600
Extended Measuring Range (mm)	570	870
Probe Holder Diameter (mm)	Ø8	
Resolution (mm)	0.01 / 0.001 / 0.0001	
Measuring Accuracy (µm)	(2.6+5L) µm*(L unit: m)	
Repeatability (µm)	Flat ≤ 1µm*	
	Spherical ≤ 3µm*	
Display	Color LCD, 6.4"	
Motor Max Speed (mm/s)	75	
Drive System	Motor Driver / Manual	
Measuring Force (N)	1.5 ± 0.5	
Working Temperature (C)°	10 to 30	
IP Rate	IP40	
Height (mm)	709	1009
Weight (kg)	20	22
Interfaces	USB x 3	
Air Cushion	Yes	
Power Supply	AC Adapter / Battery (Li-ion)	

*Guaranteed at (20±1)° C with standard probe



Concentricity Gauges

646 Series



646-01-0

FEATURES

- Precision structure with ball bearing slide
- equipped with Asimeto measuring tools or together with universal magnetic base
- light and easy to be used to measure concentricity / eccentricity for parts such as shaft, tube, bush, screw etc
- Dial test indicator and universal magnetic base are not included
- T Series



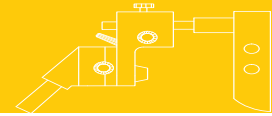
646-04-0



646-12-0

SPECIFICATIONS

Clip Outer Dia. (mm)	Size (mm)	Model	Code No.
Ø1 - Ø30	260 x 98 x 110	CMG-A	646-01-0
Ø1 - Ø30	260 x 170 x 150	CMG-AA	646-02-0
Ø30 - Ø90	330 x 140 x 95	CMG-AB	646-03-0
Ø1 - Ø90	520 x 140 x 200	CMG-ABA	646-04-0
Ø1 - Ø40	390 x 98 x 110	CMG-AL	646-05-0
Ø1 - Ø30	260 x 98 x 110	CMG-AR	646-06-0
Ø1 - Ø35	390 x 98 x 110	CMG-B1	646-07-0
Ø1 - Ø35	390 x 98 x 110	CMG-B1R	646-08-0
Ø1 - Ø35	500 x 98 x 120	CMG-B3	646-09-0
Ø1 - Ø35	500 x 98 x 120	CMG-B3R	646-10-0
Ø1 - Ø40	600 x 200 x 250	CMG-A-S3	646-11-0
Ø1 - Ø40	850 x 190 x 350	CMG-A-S6	646-12-0
Ø1 - Ø40	1250 x 190 x 350	CMG-A-S10	646-13-0



Vertical Profile Projectors

641 Series



641-01-0

FEATURES

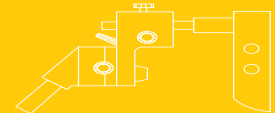
- Used to inspect the profiles of a wide variety of parts and components
- Designed to provide an excellent quality image with accurate magnification
- The error of the contour measuring is under 0.08% deviation
- A convenient foot switch transfers the coordinate data to the data processing system
-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

STANDARD ACCESSORIES

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

SPECIFICATIONS

Code No.	641-01-0 / 641-01-1			641-02-0 / 641-02-1			
Imaging Direction	Obverse / Reverse Image			Obverse / Reverse 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)		
Resolution (X/Y-axis)	0.001 mm (1µm) or 0.0005 mm (0.5µm)			0.001 mm (1Qm) or 0.0005 mm (0.5µm)			
Projector Screen	Dimension	12" (Ø312 mm), usable range > Ø300 mm			12" (Ø312 mm), usable range > Ø300 mm		
	Rotary Range	0°-360°			0°-360°		
	Angle Resolution	1' or 0.01°			1' or 0.01°		
Objective Lens	Magnification	10X (Standard)	20X (Option)	50X (Option)	10X (Standard)	20X (Option)	50X (Option)
	Object View (mm)	Ø30	Ø15	Ø6	Ø30	Ø15	Ø6
	Working Distance (mm)	77.7	44.3	38.4	77.7	44.3	38.4
Data Processing System	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						
Illumination	Transmission and Reflection Light Source: 24V/150W-halogen Lamp						
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.: 641-05-0			
	Swivel Center Support			Code No.: 641-05-1			
	Edge Detector			Code No.: 641-05-2			



Surface Roughness Tester 645 Series



FEATURES

- Main Unit
- Sensor
- Adjustable height support feet
- Calibration test block
- Test block bracket
- Extension cable
- Touch pen
- Charger
- USB cable
- Operating manual

SPECIFICATIONS

		Code No.
Measuring Range	X axis: 17.5mm/ 0.69"	645-13-0
	Z axis: 320µm (-160µm - 160µm) / 12600µin (-6300µin - +6300µin)	
Sampling Length	0.25、 0.8、 2.5mm	
Measuring Speed	0.135、 0.5、 1mm/s, 1mm/s (Return)	
Measuring Force	4mN	
Stylus Tip	Diamond, 90° / 5µmR tip radius	
Size	Control Unit: 160x64x53mm	
	Drive Unit: 115x23x27mm	
Power Supply	Built-in 3200mAh Rechargeable Lithium Ion Battery; AC Adapter	

STANDARD ACCESSORIES

- 3.5-inch color graphic touch screen, provide high brightness, wide viewing angle.
- Display full information, intuitive and graphical displays all parameters.
- DSP chip control and data processing, high speed, low power consumption.
- 4 Profile Filter: Gauss RC PC-RC D-P.
- Multi parameters: Ra、 Rz、 Rq、 Rt、 Rp、 Rv、 R3z、 R3y、 Rz (JIS)、 Rs、 Rsk、 Rsm、 Rku、 Rc、 Ry、 Rmax、 Rmr、 RPl、 Rk、 Rpk、 Rvk、 Mr1、 Mr2.
- Complies with the following standards: ISO、 DIN、 ANSI、 JIS.
- Support Bluetooth printer and mobile APP wireless operation.
- Large capacity data storage, can store 100 item of raw data and measured profile.
- With automatic sleep, automatic shutdown power-saving features.
- Can connected to the computer and printer.
- Optional accessories include curved surface sensor, deep groove sensor, small hole sensor, measurement stand, Sleeve of sensor, printer and analysis software.

OPTIONAL ACCESSORIES

- Curved Surface Sensor
- Deep Groove Sensor
- Small hole Sensor
- Nosepiece for flat surface sensor
- Thermal printer

Surface Roughness Standards 506 Series

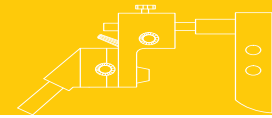


FEATURES

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

SPECIFICATIONS

Code No.		506-01-0
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	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.

STANDARD ACCESSORIES

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

SPECIFICATIONS

Range	Resolution	Probes	Remark	Code No.
0-1250 μm	0.1 μm	N1	For measuring thickness of non-conductive, non-magnetic coating on non-magnetic metal substrate	506-10-0
0-1250 μm	0.1 μm	F1	For measuring thickness of non-magnetic coating on magnetic metal substrate	506-10-1
0-10000 μm	0.1 μm	F10	For measuring thickness of non-magnetic coating on magnetic metal substrate	506-10-3

Ultrasonic Thickness Gauge

506 Series

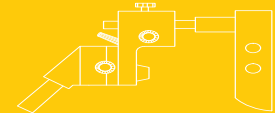


FEATURES

- Black metal back shell.
- Display: 128 x 64 LCD with LED backlight.
- Measuring range: 0.75mm-300.0mm (0.03inch-15.7 inch)
- Display resolution: 0.01mm (smaller than 99.99mm) / 0.1mm (larger than 100mm)
- Sound Velocity Range: 1000m/s-9999m/s (0.039-0.394in/us)
- Accuracy (H is measuring thickness):
 - ± 0.05mm (H < 10mm)
 - ± (0.5%H+0.05) mm (10mm < H < 100mm)
 - ± (0.6%H) mm (H > 100mm)
- Data memory: 5 files (up to 100 values for each file) of stored values
- Units: Metric/Imperial unit selectable.

SPECIFICATIONS

Range	Resolution	Probes	Remark	Code No.
0.75-300mm (0.03inch-15.7 inch)	0.01 mm / 0.1mm	5M	Black metal shell	506-20-0



Impact Hardness Testers

640 Series



FEATURES

- Large screen with color display, 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
- Support two languages display, English and Chinese
- 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

STANDARD ACCESSORIES

- Impact device 1 pc
- Hardness test block 1 pc
- Battery Charger 1 pc
- Paper for printing 1 pc
- Manual 1 pc

SPECIFICATIONS

Range	Accuracy	Application Range	Impact devices	Impact Capacity	Code No.
(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	640-17-1
		Test hole or hollow cylindrical	DC	11 Nmm	640-17-2
		Test small, light, thin parts and surface of hardened layer	C	2.7 Nmm	640-17-3
		Test groove or re-entrant surface	D+15	11 Nmm	640-17-4
		Test slender narrow groove or hole	DL	11 Nmm	640-17-5
		Test large, thick, heavy and rough surface steel	G	90 Nmm	640-17-6

Shore Scale A Durometer

640 Series

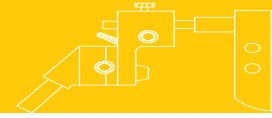


FEATURES

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

SPECIFICATIONS

Code No.	640-06-0
Range	20-90HA
Test Force	0.55-8.06N (56-82 lgf)
Dimension	110 x 58 x 30mm
Weight	Approx. 500g



Rockwell Type Hardness Testers

640 Series



640-01-0



640-02-0

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

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	640-01-0
20-88HRA, 20-100HRB, 20-70HRC	588.4, 980.7, 1471N (60, 100, 150kgf)	400mm	160mm	640-02-0

Digital Twin Rockwell Hardness Tester

640 Series

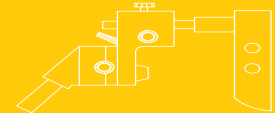


FEATURES

- Twin tester--Regular Rockwell & Rockwell Superficial hardness for metal and plastic material
- Horizontal protrudent indenter design, also suitable for internal and external testing
- Testing on surfaces difficult to reach. Testing internal surface of rings and tubes with diameters over 23mm
- Testing force is set automatically according to testing scale
- Provided with many features such as high measuring precision, wide measuring range with 30 Rockwell scales
- Measuring results are digitally displayed and can be printed, or transmitted to external computer automatically by USB or RS-232 cable
- Test value can be transformed to the value of HB, HV, HK and σ_b value
- The tester meets all the following standard such as ISO 6508-2, ASTM E18

SPECIFICATIONS

Rockwell Scales	Test Force	Resolution	Test Height	Throat Depth	Code No.
HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV	147.1, 294.3, 441.3N (15, 30, 45kgf)	0.1HR	260mm	150mm	640-20-3



Touch Screen Rockwell Type Hardness Testers

640 Series



640-01-1

FEATURES

- Half automatic hardness tester except loading initial force and change force knob, Operation is very convenient and fast
- Color touch screen, displays loading force, indenter type, dwell time, and conversion scale
- Auto hardness conversion to others scales, no need to check table and improve working efficiency
- Support Multiple languages, English, Turkish, German, etc. Convenient for local customers operation
- Optional blue tooth mini printer is available

SPECIFICATIONS

Range	Test Force	Test Height	Code No.
20-88HRA, 20-100HRB, 20-70HRC	588.4, 980.7, 1471N (60, 100, 150kgf)	175mm	640-01-1

Brinell Hardness Testers

640 Series



640-10-1



640-10-7

FEATURES

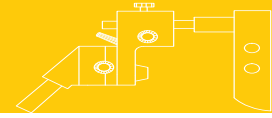
- Used for determining the Brinell hardness of various metals
- A "V" anvil is supplied for testing round work pieces
- Readings provided to a minimum resolution 0.5HR
- Mechanical models are designed with reversing switch
- Digital Models provide automatic operation reducing manual testing errors
-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

STANDARD ACCESSORIES

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

SPECIFICATIONS

Code No.	640-10-1	640-10-7	640-10-6
	Mechanical Models	Digital Models	Digital Models
Range	8-650HBW	8-650HBW	4-650HBW
Test Force	1838.8, 2451.8, 7355.3, 9807, 29421N (187.5, 250, 750, 1000, 3000kgf)	980.7, 1225.9, 1838.8, 2451.8, 4903.5, 7355.3, 9807, 14710.5, 29421N (100, 125, 187.5, 250, 500, 750, 1000, 1500, 1500, 3000kgf)	1838.8, 2451.8, 4903.5, 7355.3, 9807, 29421N (62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 1500, 3000kgf)
Max. Height of Test Piece	230mm	280mm	240mm
Depth of Throat	120mm	150mm	150mm
Power Supply	380V AC or 220V AC. 50 or 60 Hz	220V AC or 110V AC. 50 or 60 Hz	220V AC or 110V AC. 50 or 60 Hz
Dimension	700 x 268 x 842mm	570 x 330 x 910mm	570 x 330 x 910mm
Weight	Approx. 210kg	Approx. 290kg	Approx. 350kg



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	640-80-0
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	640-81-0
Leeb Standardized Block	790 ± 40 HLD	Ø90 X 55mm	2.7kg	640-82-0

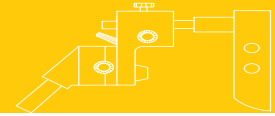
Hardness Tester Penetrators

640 Series



SPECIFICATIONS

Description	Specification	Code No.
Penetrator for Rockwell Hardness Tester	120° Diamond cone penetrator Ø1.588mm (1/16") steel ball penetrator	640-83-0
Penetrator for Brinell Hardness Tester	Ø2.5, 5, 10mm Tungsten carbide ball penetrator	640-84-0



Microscope XC-100L



642-01-0

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.	642-01-0	
Graduation	0.01mm	
Magnification	100X	
Field of View	18mm	
Working Distance	6.93mm	
Eyepiece	WF10X, Graduation: 0.025 mm	
Objective	10X	
Illumination System	Pen Illumination	
Spare Part	Description	Code No.
Objective	4X	642-10-0

Stereo-Microscope ST 40



642-01-2

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.	642-01-2	
Magnification	20X / 40X	
Field of View	10mm / 5mm	
Working Distance	57mm	
Eyepiece	WF10X	
Objective	2X / 4X	
Illumination System	12V / 10W Double-Lighting	

Stereo-Microscope ST 45



642-01-3

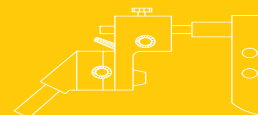
FEATURES

- 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
- Arm curved style stand

STANDARD ACCESSORIES

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

Code No.	642-01-3	
Magnification	20X / 40X	
Field of View	10mm / 5mm	
Working Distance	76mm	
Eyepiece	WF10X / 20mm	
Objective	2X / 4X	
Illumination System	12V / 10W Halogen and Incandescent	



Stereo-Microscope ST 50



642-01-4

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.	642-01-4
Magnification	20X
Field of View	10mm
Working Distance	250mm
Eyepiece	WF10X / 20mm
Objective	2X
Illumination System	12V / 10W Incandescent

Accessory for ST 40/ST 45

Spare Part	Description	Code No.
Eyepiece	WF15X / 15mm	642-10-3
Eyepiece	WF20X / 10mm	642-10-4

Stereo-Microscope LAB 1



642-01-5

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.	642-01-5	
Magnification	20X / 40X	
Field of View	10mm / 5mm	
Working Distance	76mm	
Eyepiece	WF10X	
Objective	2X / 4X	
Illumination System	12V / 10W Adjustable Double-Lighting	
Spare Part	Description	Code No.
Eyepiece	WF15X / 15mm	642-10-3
Eyepiece	WF20X / 10mm	642-10-4



Stereo-Zoom Microscope LAB 2



642-01-6

FEATURES

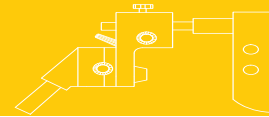
- Sharp stereo image over a wide field of view
- Binocular Tube: 360°rotating and 45°inclined
- Pillar style stand

STANDARD ACCESSORIES

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

Code No.	642-01-6	
Magnification	10X-40X	
Field of View	23mm - 5.5mm	
Working Distance	82mm	
Eyepiece	SWF10X	
Objective	1X-4X	
Illumination System	12V / 10W Adjustable Double-Lighting	
Spare Part	Description	Code No.
Eyepiece	WF15X / 15mm	642-10-3
Eyepiece	WF20X / 10mm	642-10-4

TESTERS & OPTICAL INSTRUMENT



Series No.	Description	Page
101	Outside Micrometers	10
101	Outside Micrometers Sets	11
102	Quick-Setting Outside Micrometers, 1mm Rev	25
103	Outside Micrometers	10
105	IP65 Digital Outside Micrometers	7
109	Micrometer Stands	25
110	Micrometer Standards	52
111	Interchangeable Anvil Outside Micrometers	12
112	Blade Micrometers	26
113	Tube Micrometers	38
114	Tube Micrometers	38
115	Interchangeable Anvil Outside Micrometers	12
116	Digital Outside Micrometers	9
117	Blade Micrometers	26
118	Spline Micrometers	30
118	Gear Tooth Micrometers	31
119	Anvil For Gear Tooth Micrometers	31
121	Multi-Anvil Micrometers	27
122	Point Micrometers	28
122	Jaw Type Micrometers	34
125	Multi-Anvil Micrometers	27
126	Point Micrometers	28
126	Jaw Type Micrometers	34
131	Single Point Micrometers	29
132	Screw Thread Micrometers	32
133	Screw Thread Micrometers	32
133	Limit Micrometers	40
135	Single Point Micrometers	29
136	Screw Thread Micrometers	32
137	Screw Thread Micrometers	32
141	Disc Micrometers	33
142	Universal Micrometers	35
143	Tube Micrometers	37
145	Disc Micrometers	33
146	Universal Micrometers	35
147	Tube Micrometers	37
150	Deep Throat Micrometers	39
151	V-Anvil Micrometers	36
152	Dial Snap Gauge	13
152	Indicating Micrometers	14
155	V-Anvil Micrometers	36
157	Deep Throat Micrometers	39
158	Sheet Metal Micrometers	41
160	Hub Micrometers	41
161	Wire Micrometers	40
162	Can Seam Micrometers	44
163	Groove Micrometers	42
165	Digital Micrometer Heads	44
169	Micrometer Heads	45
181	Snap Gauges	43
182	Snap Gauges	43
201	Depth Micrometers	51
203	Inside Micrometers	22

Series No.	Description	Page
205	Depth Micrometers	51
206	Dual Measurement Inside Micrometers	23
207	Inside Micrometers	22
208	Two and Three Point Internal Micrometers (2-12mm/.08-.5")	15
208	Three-Point Internal Micrometers (12-100mm/.5-4.0")	16
208	Three-Point Internal Micrometers (100-300mm/4.0-12.0")	17
208	Two and Three Point Internal Micrometers Sets	18
209	Two and Three Point Internal Micrometers (2-12mm/.08-.5")	15
209	Three-Point Internal Micrometers (12-100mm/.5-4.0")	16
209	Three-Point Internal Micrometers (100-300mm/4.0-12.0")	17
209	Two and Three Point Internal Micrometers Sets	18
240	Tubular Inside Micrometers	23
242	Inside Micrometers - Interchangeable Rod Type	24
245	Pistol Grip Bore Gauge (6-100mm)	19
245	Pistol Grip Bore Gauge (100-300mm)	20
245	Pistol Grip Bore Gauge Sets	21
301	IP67 Digital Calipers _ SYLVAC SYSTEM	55
302	Heavy Duty Vernier Calipers With Upper Knife-edge (Mono block)	75
302	Heavy Duty Vernier Calipers With Upper Knife-edge (Open block)	76
303	Dial Calipers	70
304	Dial Calipers	70
305	IP67 Digital Calipers	55
305	IP67 Big Screen Digital Caliper	56
305	Mini-type 3-purpose Digital Calipers	68
306	Big Screen Digital Caliper	56
307	Absolute Digital Calipers	57
307	Digital Calipers (Four Buttons)	57
307	Digital Calipers (Three Buttons)	59
309	ABS Digital Calipers for Outside/Inside Grooves	63
311	Long Jaw Vernier Calipers (Mono block)	73
311	Heavy Duty Vernier Calipers (Mono block)	77
313	Long Jaw Vernier Calipers (Open block)	74
313	Heavy Duty Vernier Calipers (Open block)	78
312	Ultra Light Heavy Duty Digital Calipers _SYLVAC SYSTEM	61
312	Ultra Light Digital Universal Depth Gauges _SYLVAC SYSTEM	62
315	ABS Heavy Duty Digital Calipers	60
316	ABS Digital Tube Calipers	64
317	Digital Calipers With Adjustable Measuring Jaw	64
318	Multi-function Digital Calipers	58
321	Depth Calipers	87
321	Digital Depth Gauges	91
322	Circle Vernier Calipers	79
322	T Form Marking Calipers	79
322	Marking Calipers	79
322	Measuring Gauges	79
322	Depth Calipers With Single Hook	88
323	Depth Calipers With Double Hook	89
325	Digital Thickness Gauges	66
325	Digital Gauge With Single Wide Measuring Face	67
325	Welding Fillet Gauges	67
325	Hook Type Digital Calipers	68
326	Digital Scales	69
327	Depth Calipers	87

NUMERICAL INDEX

Series No.	Description	Page
327	Depth Base Attachment for Calipers	90
328	Digital Gear Tooth Calipers	65
330	Gear Tooth Calipers	65
331	Depth Calipers With Double Hook	89
341	Vernier Calipers	71
343	Vernier Calipers	71
351	Vernier Calipers	72
363	Vernier Calipers	72
400	Internal Caliper Gauges	81
401	AGD1 Dial Indicators	101
402	AGD2 Dial Indicators	102
403	Internal Dial Caliper Gauges	80
403	Internal Caliper Gauges	81
404	External Caliper Gauges	82
405	External Caliper Gauges	82
405	Digital Indicators	99
406	Digital Indicators With Analog Display	100
407	Digital Indicators With Analog Display	100
407	IP65 Digital Indicators	97
408	IP67 Digital Indicators	98
422	Dial Comparators	105
422	Dial Indicators - One revolution for Error-free Reading	106
422	Back Plunger Type Dial Indicators	107
422	Back Plunger Dial Indicator Sets	107
469	Crank Shaft Gauges	105
469	Centering Indicators	114
473	Depth Gauges	91
475	Depth Gauges	91
477	Indicator Points	108
477	Dial Indicator Points	109
477	Stem Indicator Points	109
477	Dial Indicator Extension Rods & Sets	108
480	Extension Rods	126
483	Dial Bore Gauges	123
483	Bore Gauge Zero Checkers	128
484	Dial Bore Gauges	123
484	Large Diameter Dial Bore Gauges	126
485	Digital Bore Gauges	125
486	Digital Bore Gauges	125
487	Telescoping Gauges	128
490	Protractors	131
490	Universal Bevel Protractors	131
490	Universal Angle Protractor	131
490	Dial Protractor	132
490	Digital Protractor	132
490	Combination Square Sets	133
490	Digital Protractors - Level Type	144
491	Thickness Gauges	90
495	Thickness Gauges	90
495	Digital Radius Gauge	114
500	Straight Metric Indicator Stem Bushing	106
500	Axial Support Bracket	115
500	Surface Gauges	115

Series No.	Description	Page
500	Dial Holders	115
500	Optional Accessories for ASIMETO Test Indicators	116
501	Dial Test Indicators	110
502	Dial Test Indicators	110
503	Extended Range Dial Test Indicators	112
504	Extended Range Dial Test Indicators	112
504	Extended Range Dial Test Indicator Sets	113
506	Surface Roughness Standards	179
506	Digital Coating Thickness Gauges	180
506	Ultrasonic Thickness Gauge	180
511	Dial Test Indicators	109
512	Dial Test Indicators	109
600	Magnetic Bases	121
601	Magnetic Bases	118
601	Flexible Arm Magnetic Bases	119
601	Permanent Magnetic Base	121
602	Articulating Arm Magnetic Bases	119
603	Hydraulic Magnetic Bases	121
604	Forced Locking Magnetic Bases	118
605	Angle Gauges	138
605	Thread Pitch Gauges	141
605	Center Gauge	142
605	Radius Gauges	142
605	Sine Bar Riser Kit	140
605	Optical Flats and Parallels	157
606	Die Makers Square Set	135
606	V-Blocks with Clamp	137
606	Spring Dividers and Calipers	143
606	Precision Levels	145
607	Depth and Angle Gauges	133
607	Cast Vee Blocks	136
607	1-2-3, 2-3-4 & 2-4-6 Blocks	136
607	Precision Parallel Sets	146
609	Magnetic V-Blocks	137
609	Magnetic Induction Block	139
609	Thin Type Magnetic Holder	139
609	Magnetic V-Block	140
621	Vernier Height Gauges	94
623	Double Beam Digit Counter Height Gauges with Hand Wheel	93
625	Digital Height Gauges	92
626	Single Beam Digital Height Gauges with Hand Wheel	92
627	Double Beam Digital Height Gauges with Hand Wheel	93
628	2D Height Gauge Value plus 300/600	176
630	Granite Surface Plates	147
631	Granite Surface Plates	147
638	Granite Plate Stands	147
639	Steel Squares	134
639	Granite Squares	134
639	Straight Knife Edges	135
639	5-pcs Square Set	135
640	Impact Hardness Testers	181
640	Shore Scale A Durometer	181
640	Touch Screen Rockwell Type Hardness Testers	183



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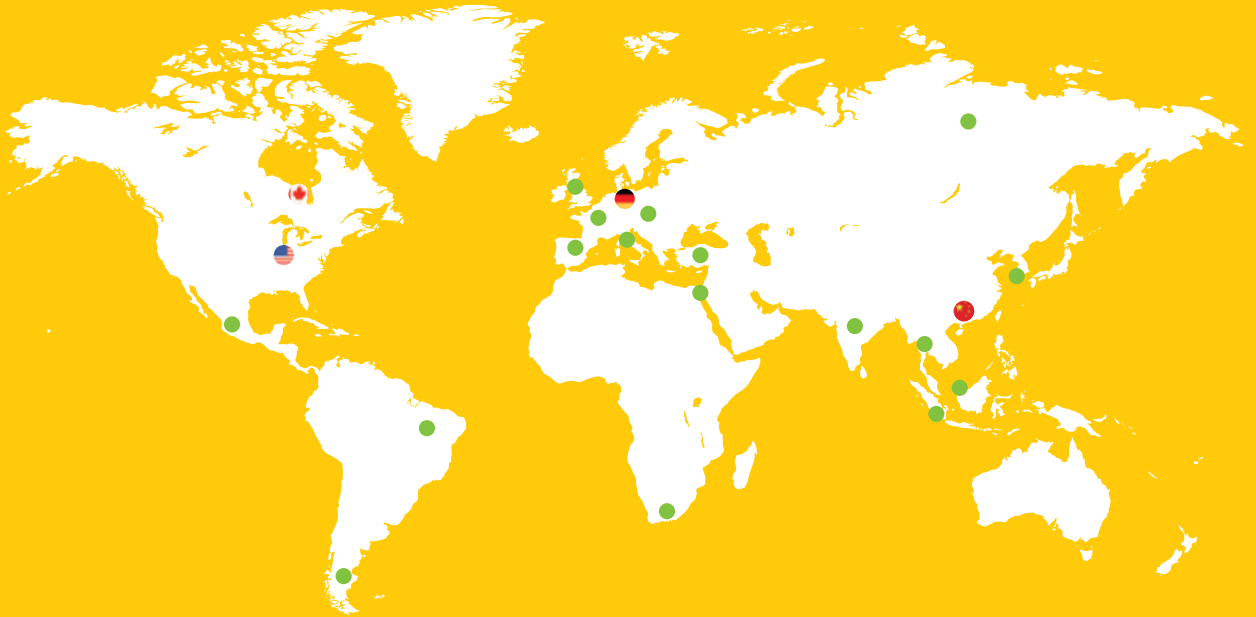
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