



Dial Caliper

Accuracy according to DIN862

- Made of Stainless Steel and hardened
- Shockproof
- Four way measurement
- Backside with thread table
- With thumb roll for fine adjustment
- Supplied in plastic box
- Delievered with Inspection report



Order No.	Range	Graduation	Accuracy	Weight
210-8388	0-6"	0.001"	±0.0012"	0.43lb
210-8883	0-8"	0.001"	±0.0012"	0.50lb
210-8890	0-12"	0.001"	±0.0012"	0.75lb

Digital Caliper

Accuracy according to DIN862

- Made of Stainless Steel and hardened
- With inch/mm, ON/OFF and ZERO buttons
- Four way measurement
- With thumb roll for fine adjustment
- Supplied in plastic box with 3V CR2032 battery
- Delievered with Inspection report



Order No.	Range	Reading	Accuracy	Weight
210-9064	0-6" / 0-150mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	0.41lb
210-9071	0-8" / 0-200mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	0.48lb
210-9088	0-12" / 0-300mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	0.65lb

IP67 Water-Proof Digital Caliper

Accuracy according to DIN862

- Made of Stainless Steel and hardened
- IP67 Protection, water and dust resistant
- High precision quality design
- Four way measurement
- A green LED light turns on when the reading within preset tolerance limit
- With INC, MOD, TOL, Power/O four buttons
- Supplied in plastic box with 3V CR2032 battery
- Delievered with Inspection report



Order No.	Range	Reading	Accuracy	Weight
210-7787	0-6" / 0-150mm	0.0005" / 0.01mm	±0.0008" / ±0.02mm	0.81lb
210-7794	0-8" / 0-200mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	1.10lb
210-7800	0-12" / 0-300mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	1.85lb



Digital Caliper with Large LCD display

Accuracy according to DIN862



- Made of Stainless Steel and hardened
- With inch/mm, ON/OFF and ZERO buttons
- Four way measurement
- Supplied in plastic box with 3V CR2032 battery
- Delivered with Inspection report



Order No.	Range	Reading	Accuracy	Weight
2229-150	0-6" / 0-150mm	0.0005" / 0.01mm	±0.0008" / ±0.02mm	0.41lb
2229-200	0-8" / 0-200mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	0.48lb
2229-300	0-12" / 0-300mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	0.65lb

IP66 Workshop Digital Caliper

- With magnetic measuring system
- IP66 protection, water and dust resistant
- hardened Stainless Steel
- With cross points and fine adjustment
- With REL inch/mm and ABS three buttons
- mm/inch and Zero Setting at any position
- Low battery alarm
- Supplied in plastic box with 3V CR2032 battery and inspection report



Order No.	Range	Reading	Accuracy	Jaws Depth	Weight
213-8548	0-12" / 0-300mm	0.0005" / 0.01mm	±0.0020" / ±0.05mm	3.94"/100mm	1.12lb
213-8555	0-20" / 0-500mm	0.0005" / 0.01mm	±0.0024" / ±0.06mm	5.90"/150mm	3.41lb
213-8562	0-40" / 0-1000mm	0.0005" / 0.01mm	±0.0028" / ±0.07mm	5.90"/150mm	5.32lb

IP54 Digital Tube Thickness Caliper

- A green LED light turns on when the reading is within preset tolerance limits
- Absolute system with 3V
- IP54 protection, water and dust resistant
- Stainless Steel
- Designed for measuring the wall thickness of tubes
- With ORIGIN, MODE, TOL and INC/POWER
- Supplied in plastic box
- Data output with mini USB interface
- Delivered with Inspection report



Order No.	Range	Reading	Accuracy	Jaws Depth	Weight
214-8081	0-6" / 0-150mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	1.57"	0.39lb



IP54 Digital Inside Groove Caliper



- For inside groove measuring
- Absolute system with 3V
- IP54 protection, water and dust resistant
- Stainless Steel
- ORIGIN, MODE, ON/OFF, TOL and INC/POWER buttons
- A green LED light turns on when the reading is within preset tolerance limit
- Supplied in plastic box
- Data output with mini USB interface
- Delievered with Inspection report



Order No.	Range	Reading	Accuracy	Weight
214-8050	0.79-6" / 20-150mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	0.39lb

Interchangeable Inside-Outside Digital Groove Caliper

- For inside and outside groove measurement
- Resolution: 0.0005"/0.01mm
- Scale with glass rail for precision sampling
- No moving speed limit
- Hardened Stainless steel
- Supplied in plastic box



Order No.	Internal Range	External Range	Jaws Depth	Accuracy	Weight
2235-300	1-12" / 25-300mm	0-12" / 0-300mm	3.3" / 83.82mm	±0.0016" / ±0.04mm	1.92lb

IP54 Digital Outside Groove Caliper

- For inside groove measuring
- Absolute system with 3V
- IP54 protection, water and dust resistant
- Stainless Steel
- ORIGIN, MODE, ON/OFF, TOL, INC/POWER buttons
- A green LED light turns on when the reading is within preset tolerance limit
- Supplied in plastic box
- Data output with mini USB interface
- Delievered with Inspection report



Order No.	Range	Reading	Accuracy	Weight
214-8029	0-6" / 0-150mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	0.39lb



Digital Disc Brake Caliper

- Stainless Steel, hardened
- Designed for measuring thickness of disc brake
- With one pointed anvil and one flat anvil
- Big LCD display
- With inch/mm, ON/OFF and ZERO 3 buttons
- Supplied in carbox with 1.5V battery and inspection report



Order No.	Range	Reading	Accuracy	Depth of Jaws	Weight
214-9026	0-4" / 0-100mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	3.3"	0.42lb

Absolute Digital Depth Caliper

According to DIN862.

- Absolute system with 3V CR2032 battery
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- Stainless Steel, Hardened
- Fine ground and lapped depth base
- With ORIGIN, MODE, INC and POWER buttons
- Data output with mini USB interface
- Supplied in plastic box with inspection report



Order No.	Range	Reading	Accuracy	Weight
211-7961	0-6" / 0-150mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	1.0lb
211-7978	0-8" / 0-200mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	1.1lb
211-7985	0-12" / 0-300mm	0.0005" / 0.01mm	±0.0016" / ±0.04mm	1.87lb

Absolute Digital Depth Caliper

According to DIN862

- With Hook
- Absolute system with 3V
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- Stainless Steel, Hardened
- Finely ground and lapped depth base
- With ORIGIN, MODE, INC and POWER buttons
- Data output with mini USB interface
- Supplied in plastic box with inspection report



Order No.	Range	Reading	Accuracy	Weight
211-7992	0-6" / 0-150mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	1.0lb
211-8005	0-8" / 0-200mm	0.0005" / 0.01mm	±0.0012" / ±0.03mm	1.1lb
211-8012	0-12" / 0-300mm	0.0005" / 0.01mm	±0.0016" / ±0.04mm	1.87lb



Height Gauge Probe Z3/Z6



Werka provides two ranges of 12"/300mm (Probe Z3) and 24"/600mm (Probe Z6). Measuring range can be extended to 22.44"/570mm and 34.25"/870mm with the second holder.

- Electronic control panel fully protected, dust and water proof
- Built-in air bearing
- WINCE operating system
- Glass grating measuring system
- Large color display
- Intuitive graphical display of survey items
- Temperature compensation function
- Independent mining point control
- USB data output interface



Standard Delivery:

- Instrument main unit
- Control panel
- Standard contact probe 5mm
- Calibration Block
- Rechargeable battery
- Battery charger
- Wrench
- M6 Set screw x2 pcs
- Operation manual,
- Product certification
- Warranty card, Packing list

Specification:

Description	Height Gauge Probe Z3/Z6	
Art. No.	2228-300	2228-600
Probe type	Z3	Z6
Measuring Range	12"/300mm	24"/600mm
Measuring Range with the extension	22.4"/570mm	34.3"/870mm
Probe Holder	Ø8	
Resolution	0.0004" / 0.0004" / 0.00004" 0.01 / 0.001 / 0.0001 mm	
Accuracy	±(2.6+5L) µm	
Repeatability	Surface ≤ 1µm, Bores ≤ 3µm	
Color Screen	VGA, 6.4"	
Max motorized movement speed	75mm/s	
Driving system	motorized	
Measuring force(N)	1.5±0.5	
Working teperature (°C)	10°C - 30°C	
Storage temperature (°C)	10°C ~ 60°C	
IP protection	IP40	
Unit display	inch/mm	
Total height	27.9"/709mm	39.7"/1009mm
Neight weight	44lb	48.4lb



Software main view:

No.	Description
1	Steps descriptions Active mode pictures Active mode icons
2	Actions history list
3	Panel options status: Active unit Active reference Tolerance management enable/disable Probing force information (green, yellow, red) Thermal expansion function status
4	Current probe position Measurement status (if tolerance mode enabled)
5	Software main details: Name and version Hour Date Battery status



Optional Accessories:

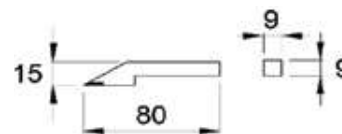
Product Name	Size	Article No.
Measuring Probe	70x1mm(ball)	WP-2228-01
Measuring Probe	70x2mm(ball)	WP-2228-02
Measuring Probe	100x2mm(ball)	WP-2228-03
Measuring Probe	100x3mm(ball)	WP-2228-04
Measuring Probe	110x4mm(ball)	WP-2228-05
Measuring Probe	80x10mm(ball)	WP-2228-06
Measuring Probe	8mm & 4mm	WP-2228-20
Measuring Probe	8mm & 4mm	WP-2228-21





Dial Vernier Height Gauge

- With two columns
- Made of stainless steel
- Carbide-tipped scribe
- Dial reading 0.01mm
- Double counters, one indicate in plus direction and one in minus direction
- Sturdy cast iron base, lacquered and lapped bottom working face
- Packed in cardbox with inspection report



WP-2169354 for 12"/24"



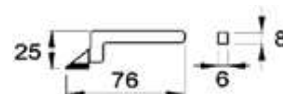
Art. No.	Range	Reading	Accuracy	Weight
216-7725	0-12"	0.001"	0.0016"	8.8lb
216-7749	0-24"	0.001"	0.0020"	17.16lb

Digital Height Gauge

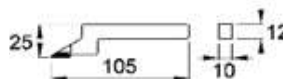
- Made of stainless steel
- With fine adjustment
- Carbide-tipped scribe
- With TOL, ON/OFF/PRE, HOLD, ZERO/ABS mm/in, DIR buttons
- Data output
- Sturdy cast iron base, lacquered and lapped bottom working face
- Powered by 3V battery
- Packed in plastic case with inspection report



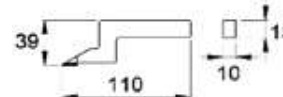
WP-2169316



WP-2169323



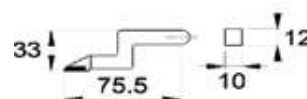
WP-2169330



Art. No.	Range	Reading	Accuracy	Weight
216-8661	0-12"/0-300mm	0.0005"/0.01mm	0.0016"/0.04mm	4.33lb
216-8678	0-24"/0-600mm	0.0005"/0.01mm	0.0020"/0.05mm	8.1lb
216-8685	0-40"/0-1000mm	0.0005"/0.01mm	0.0028"/0.07mm	27.13lb

Digital Height Gauge with Driving Wheel

- Metal rack for longer tool life
- Robustly constructed, stainless steel column
- Metal casing
- With fine adjustment
- Carbide-tipped scribe
- With on/off, mm/inch, zero and preset buttons
- Powered by battery 1.5V SR44
- Packed in cardbox with inspection report



WP-2169347

Art. No.	Range	Reading	Accuracy	Weight
216-8692	0-12"/0-300mm	0.0005"/0.01mm	0.0016"/0.04mm	12.4lb
216-8708	0-24"/0-600mm	0.0005"/0.01mm	0.0020"/0.05mm	18.15lb



Outside Micrometer

Accuracy according to DIN863

- With ratchet friction thimble
- Carbide measuring face
- Frame painted, scale chrome finished
- From size 1-2" including setting gauge
- With adjusting key
- Delivered in cardbox with inspection certificate



Art. No.	Range	Graduation	Accuracy	Weight
217-5462	0-1"	0.0001"	±0.00015"	0.78lb
217-5479	1-2"	0.0001"	±0.00015"	0.87lb
217-5486	2-3"	0.0001"	±0.00020"	1.18lb
217-5493	3-4"	0.0001"	±0.00020"	1.57lb
217-5509	4-5"	0.0001"	±0.00025"	1.67lb
217-5516	5-6"	0.0001"	±0.00025"	2.10lb

Outside Micrometer

Accuracy according to DIN863

- With ratchet friction thimble
- Carbide measuring face
- Frame painted, scale chrome finished
- Including setting gauge
- With adjusting key
- Delivered in cardbox with inspection certificate



Art. No.	Range	Graduation	Accuracy	Weight
3101-070	6-7"	0.0001"	±0.00028	2.67lb
3101-080	7-8"	0.0001"	±0.00028	2.97lb
3101-090	8-9"	0.0001"	±0.00031	3.15lb
3101-100	9-10"	0.0001"	±0.00031	3.64lb
3101-110	10-11"	0.0001"	±0.00035	4.27lb
3101-120	11-12"	0.0001"	±0.00035	5.10lb

Micrometer With Interchangeable Anvils

- Painted frame, with ratchet friction thimble
- With exchangeable anvils
- With carbide measuring faces
- Spindle $\varnothing 8.0\text{mm}$
- With setting gauges
- Accuracy manufacturer standard
- Deliver in wooden box with inspection report



Art. No.	Range	Graduation	No. of Anvils	No. of Setting Gauges	Weight
217-5745	0-6"	0.0001"	6	5	3.54lb
217-5752	6-12"	0.0001"	6	6	6.97lb



Digital Outside Micrometers IP65

Accuracy according to DIN863



- Inductive measuring system
- IP65 protection, water and dust resistant
- Painted framed, with ratchet friction thimble
- Carbide measuring face
- With functions of mm/inch, zero setting at any position, power on/off and data hold
- over 1" Micrometers are supplied with a setting gauge
- Data output with mini USB interface
- In plastic box, with 3V CR2032 battery
- Supplied with inspection report



Art. No.	Range	Reading	Accuracy	Weight
217-5929	0-1"	0.00005"/0.001mm	±0.00012"/0.003mm	0.48lb
217-5936	1-2"	0.00005"/0.001mm	±0.00012"/0.003mm	0.72lb
217-5943	2-3"	0.00005"/0.001mm	±0.00016"/0.004mm	1.00lb
217-5950	3-4"	0.00005"/0.001mm	±0.00016"/0.004mm	1.34lb
217-5967	4-5"	0.00005"/0.001mm	±0.00020"/0.005mm	1.76lb
217-5974	5-6"	0.00005"/0.001mm	±0.00020"/0.005mm	2.13lb

IP54 Digital Point Micrometers

- A green LED light turn on when the reading is within preset tolerance limits
- IP54 protection, water and dust resistant
- Pointed spindle and anvil for measuring drills, grooves and hard-to-reach dimensions
- Painted framed, with ratchet friction thimble
- Carbide measuring points
- With functions of mm/inch, zero setting at any position, power on/off and Tolerance setting
- Data output with mini USB interface
- In plastic box, with 3V CR2032 battery
- Supplied with inspection report



Art. No.	Range	Reading	Accuracy	Weight
217-6148	0-1"/0-25mm	0.00005"/0.001mm	±0.00012"/0.003mm	1.06lb
217-6155	1-2"/25-50mm	0.00005"/0.001mm	±0.00012"/0.003mm	1.36lb
217-6162	2-3"/50-75mm	0.00005"/0.001mm	±0.00016"/0.004mm	1.74lb
217-6179	3-4"/75-100mm	0.00005"/0.001mm	±0.00016"/0.004mm	2.57lb

IP65 Digital Screw Thread Micrometer

- IP65 protection, water and dust resistant
- With ratchet friction thimble
- Buttons: mm/inch, SET, power on/off and ABS/INC
- Metric Pitch Range: 0.4-0.5, 0.6-0.9, 1-1.75, 2-3, 3.5-5
- Imperial Pitch Range: 64-48, 44-28, 24-14, 13-9, 8-5
- Packed in cardbox, including a battery
- Delivered with Certificate



Art. No.	Range	Reading	Accuracy	Weight
3212-250	0-1"/0-25mm	0.00005"/0.001mm	±0.00012"/0.003mm	1.47lb
3212-500	1-2"/25-50mm	0.00005"/0.001mm	±0.00012"/0.003mm	1.82lb



Depth Micrometer

- Measuring rods $\phi 4.5\text{mm}$ with spherical measuring face
- Rods simply exchangeable
- With ratchet friction thimble
- Satin chrome finished
- Supplied in plastic box with inspection report



Order No.	Range	Reading	Accuracy	Length of Base	Weight
217-6223	0-6"	0.001"	0.00020"	3.94"	1.16lb
217-6230	0-8"	0.001"	0.00024"	3.94"	1.83lb
217-6247	0-12"	0.001"	0.00028"	3.94"	2.64lb

Digital Depth Micrometer

- A green LED light turns on when the reading is within preset tolerance limits
- IP54 protection, water and dust resistant
- Rods simply exchangeable
- With ratchet friction thimble
- With on/off mm/inch, Tolerance and zero buttons
- Data output with mini USB interface
- Supplied in plastic box with 3V CR2032 battery
- Delivered with inspection report



Order No.	Range	Reading	Accuracy	Width of Base	Weight
217-6254	0-6" / 0-150mm	0.00005" / 0.001mm	$\pm 0.00012"$ / $\pm 0.003\text{mm}$	3.94"	0.83lb

Digital Tire Tread Depth Gauge

- Made of high strength and wear-resistant engineering plastic
- Large LCD display with clear reading
- With mm/inch, OFF/ON and zero buttons
- Packed in carbox with 1.5V battery



Order No.	Range	Reading	Length of Base	Weight
211-8937	0-1" / 0-25mm	0.005" / 0.01mm	2.36" / 60mm	0.09lb



Internal Micrometer

- With round carbide measuring face
- Satin chrome finished
- With ratchet friction thimble
- Supplied in cardbox with inspection certificate



Art. No.	Range	Graduation	Accuracy	Weight
217-6308	0.2-1"	0.0001"	±0.00020"	0.66lb
217-6315	1-2"	0.0001"	±0.00024"	0.82lb
217-6322	2-3"	0.0001"	±0.00028"	0.70lb
217-6339	3-4"	0.0001"	±0.00032"	0.86lb

Three-Point Internal Micrometers

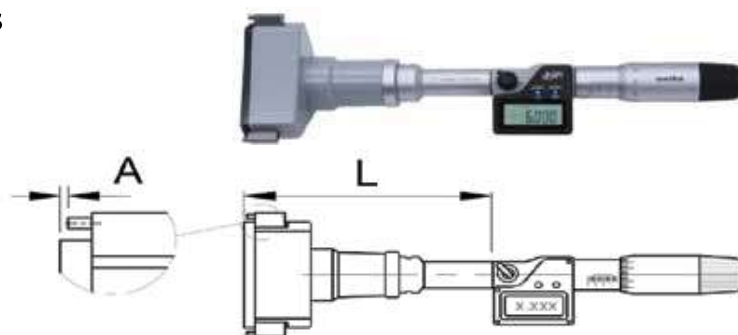
- With Carbide measuring points
- Including Setting Rings and Extensions
- Resolution within 0.5": 0.0001", over 0.5" : 0.0002"
- Stain chrome finished
- Packed in aluminium box with inspection Certificate



Art. No.	Range	Setting Ring included	Ext. Rod	Measuring Tip A	Weight
217-6643	0.275-0.5"	0.275", 0.35", 0.5"	4"	0.02"	2.48lb
217-6650	0.5-0.8"	0.350"	6"	0.02"	2.55lb
217-6667	0.8-2"	1", 1.6"	6"	0.02"	9.82lb
217-6674	2-4"	2.5", 3.5"	6"	0.02"	17.43lb

Digital Three-point Internal Micrometers

- IP65 protection, water and dust resistant
- For blind and thru hole
- With carbide measuring points from 0.5"
- Satin chrome finished
- With setting rings and extension
- Button: ON/OFF, SET, ABS/INC, inch/mm buttons
- Packed in aluminum box with inspection certificate



Art. No.	Range	Setting Ring Ø	L	A	Extension	Accuracy	Weight
217-7466	0.275-0.350"/6-8mm	6mm	2.15"	0.06"	4"	±0.00025"	2.27lb
217-7473	0.350-0.425"/8-10mm	8mm	2.15"	0.06"	4"	±0.00025"	2.25lb
217-7480	0.425-0.500"/10-12mm	10mm	2.15"	0.06"	4"	±0.00025"	2.25lb
217-7497	0.500-0.650"/12-16mm	16mm	3.15"	0.02"	6"	±0.0003"	2.75lb
217-7503	0.650-0.800"/16-20mm	16mm	3.15"	0.02"	6"	±0.0003"	2.75lb
217-7510	0.800-1.000"/20-25mm	25mm	3.54"	0.02"	6"	±0.0003"	3.14lb
217-7527	1.000-1.200"/25-30mm	25mm	3.54"	0.02"	6"	±0.0003"	3.20lb
217-7534	1.200-1.600"/30-40mm	40mm	3.82"	0.02"	6"	±0.0003"	6.14lb
217-7541	1.600-2.000"/40-50mm	40mm	3.82"	0.02"	6"	±0.0003"	6.34lb
217-7558	2.000-2.500"/50-63mm	62mm	4.49"	0.02"	6"	±0.0003"	10.16lb
217-7565	2.500-3.000"/62-75mm	62mm	4.49"	0.02"	6"	±0.0003"	10.12lb
217-7572	3.000-3.500"/75-88mm	87mm	4.49"	0.02"	6"	±0.0003"	11.41lb
217-7589	3.500-4.000"/87-100mm	87mm	4.49"	0.02"	6"	±0.0003"	11.58lb



Dial Bore Gages

- Indicator range: 0-0.5"
- Indicator graduation: 0.0005"
- Repeatability: 0.00012"
- Stainless Steel base
- Supplied in fitted plastic box



Art. No.	Range	Indicator Range	Graduation	Measuring Depth	Accuracy	Weight
220-7169	0.24-0.4"	0-0.5x0.0005"	0.0005"	1.57"	±0.00047"	1.00lb
220-7176	0.4-0.7"	0-0.5x0.0005"	0.0005"	3.94"	±0.00047"	1.00lb
220-7183	0.7-1.5"	0-0.5x0.0005"	0.0005"	6"	±0.00059"	1.54lb
220-7190	1.4-2.4"	0-0.5x0.0005"	0.0005"	6"	±0.00071"	1.76lb
220-7206	2-6"	0-0.5x0.0005"	0.0005"	6"	±0.00071"	7.7lb

Digital Bore Gages

- Indicator range: 0-0.5"/0-12.7 mm
- Reading: 0.0001"/0.002 mm
- USB data output
- Stainless Steel base
- ABS, Start, ZERO/ON, CAL, M buttons
- Supplied in fitted plastic box with 3V CR2032 battery



Art. No.	Range	Indicator Range	Reading	Measuring Depth	Accuracy	Weight
221-9279	0.7-1.5"	0-0.5"/0-12.7mm	0.0001"	6"	±0.00059"	1.54lb
221-9286	1.4-2.4"	0-0.5"/0-12.7mm	0.0001"	6"	±0.00071"	1.76lb
221-9293	2-6"	0-0.5"/0-12.7mm	0.0001"	6"	±0.00071"	7.7lb



Digital Indicators

- A green LED light turns on when the reading is within preset tolerance limits
- Absolute system with 3V battery
- Scale with glass rail for precision sampling
- Stem $\varnothing 8\text{mm}$ h6
- Display rotatable 0-330° for easy reading at different position
- With buttons: in/mm, +/- (For measuring direction) ZERO/ABS, PRESET, ORIGIN, TOL and power
- Data output with mini USB interface
- With flat back and one lug back as accessory
- Packed in plastic box
- Delivered with certificate



Code No.	Range	Reading	Accuracy	Weight
221-8128	0-0.5"/0-12.7mm	0.0005"/0.01mm	$\pm 0.0005/0.01\text{mm}$	0.68lb
221-8135	0-1"/0-25.4mm	0.0005"/0.01mm	$\pm 0.0005/0.01\text{mm}$	1.20lb

Digital Indicators

- Large display for easy reading
- Scale with glass rail for precision sampling
- Stem $\varnothing 8\text{mm}$ h6
- With buttons: in/mm, ABS and ZERO/ON
- Preset function
- With data output
- Flat back
- Packed in plastic box with 3V CR2032 battery
- Delivered with certificate



Code No.	Range	Reading	Accuracy	Weight
221-9095	0-0.5"/0-12.7mm	0.0005"/0.01mm	$\pm 0.0015/0.04\text{mm}$	0.43lb
221-9101	0-1"/0-25.4mm	0.0005"/0.01mm	$\pm 0.0015/0.04\text{mm}$	0.68lb
221-9118	0-2"/0-50.8mm	0.0005"/0.01mm	$\pm 0.0015/0.04\text{mm}$	0.84lb
221-9125	0-0.5"/0-25.4mm	0.00005"/0.001mm	0.0002"/0.001mm	0.43lb

Dial Indicators

- Aluminum casing
- Lifting screw with cushion rubber
- Inside Tolerance markers
- Stem $\varnothing 3/8"$
- Included lug and flat back
- Packed in cardbox
- Supplied with certificate



Code No.	Range	Graduation	Accuracy	Range per Rev.	Weight
220-7008	0-0.5"	0.001"	± 0.001	0-100	0.30lb
220-7015	0-1"	0.001"	± 0.002	0-100	0.30lb
220-7022	0-0.5"	0.0005"	± 0.00015	0-50	0.96lb
220-7039	0-1"	0.0005"	± 0.0002	0-50	0.96lb



Dial Test Indicators

- High performance and magnetic proof
- Jeweled bearing for high sensitivity and long life
- Carbide contact point $\varnothing 0.08"$ for long life
- 230° turning range of stylus
- Including Clamping stems 1/4" & 3/8"
- Packed in card box
- Supplied with certificate



Code No.	Range	Graduation	Dia. of Indicator	Stylus Length	Stylus Dia.	Weight
220-7077	0-0.03"	0.001"	1.18"	0.62"	0.079"	0.18lb
220-7091	0-0.03"	0.0005"	1.48"	0.62"	0.079"	0.18lb
220-7107	0-0.008"	0.0001"	1.48"	0.64"	0.079"	0.22lb

Interapid Test Indicator

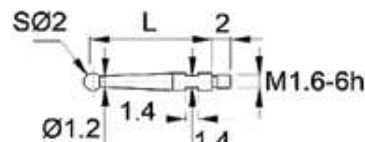
- High performance and magnetic proof
- Jeweled bearing for high sensitivity and long life
- Carbide contact point $\varnothing 0.08"$ for long life
- 230° big turning range of stylus
- Including Clamping stems 1/4" & 3/8"
- Packed in card box
- Supplied with certificate



Code No.	Range	Graduation	Dia. of Indicator	Length of Stylus	Stylus Dia.	Weight
4113-006	0-0.03"	0.0005"	1.48"	0.62"	0.079"	0.18lb

Spare Stylus

Code No.	L	S	Ideal for	Material
WP-4104-01	0.66"	0.079"	220-7107	Carbide
WP-4104-02	0.66"	0.079"	220-7107	Carbide
WP-4105-01	0.5"	0.079"	220-7077, 220-7091	Steel
WP-4105-02	0.5"	0.079"	220-7077, 220-7091	Steel



Dial Thickness Gauge

- The measuring depth: 30mm
- With standard dial indicator
- Ceramic contact point and anvil $\varnothing 10\text{mm}$
- Packed in card box



Code No.	Range	Graduation	Accuracy	Stylus Dia.	Throat Depth	Weight
220-7275	0-0.5"	0.0005"	0.002"	0.35"	1.18"	0.44lb



USB Data Output Cables

- To be connected to USB port
- To transfer data to a pc
- No software needed to run



order No.	Ideal for
WP-DCA1	Digital Calipers, Digital Micrometers, Digital indicators
WP-DCA2	Digital Micrometers
WP-DCA3	Digital Height Gauges

Test Indicator Holder

- For test indicators
- Made of steel, black burnished
- Packed in card box



Code No.	Shaft Size	Bore Diameter	Weight
220-8326	3" x 1/2" x 1/4"	Ø5/32" & Ø1/4"	0.12lb

Test Indicator Centering Holder

- For test indicators and Intrapid test indicators
- Made of steel, black burnished
- The indicator is not included
- Packed in card box



Code No.	Shaft Size	Bore Diameter	Weight
220-8302	3" x 1/2" x 1/4"	Ø5/32" & Ø1/4"	0.15lb

Micrometer Stand

- Cast iron base
- With adjustable angle and central clamp
- Clamp with rubber pad to protect the instruments
- For outside micrometers 0-4"

Code No.
217-6858





Metric Dial Indicator



Made in Taiwan

Order No.	Designation	Range	Reading
2023-020	VDI-1	0-1mm	0.01mm

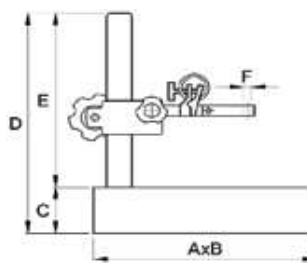
Metric Test Indicator



Made in Taiwan

Order No.	Designation	Range	Reading
2023-070	VDI-0.8A	0-0.08mm	0.01mm

Granite Surface Stand

 Accuracy: 0.0002"/4"
Without Dial Indicator


Made in Taiwan

Order No.	Designation	Plate A x B	C	D	E	F	Weight
2022-002A	VH-42	8"x8"	2.05"	9.92"	7.87"	0.31"	19.86lb

Granite Square Ruler

Accuracy and Squareness: 0.00008"/4"



Made in Taiwan

Order No.	Designation	Length x Height	Thickness	Weight
2021-050	VQR-400	15.75"x15.75"	2.36"	54.75lb

Granite Triangle Ruler

Accuracy and Squareness: 0.00008"/4"



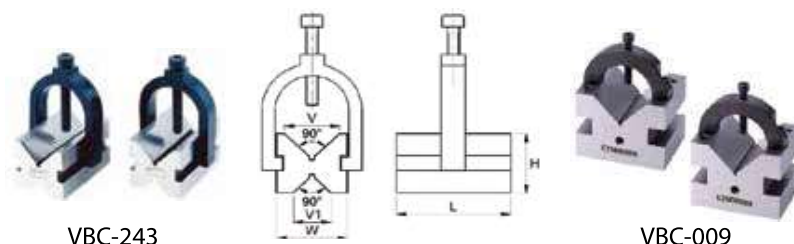
Made in Taiwan

Order No.	Designation	Length x Height	Thickness	Weight
2022-021	VGT-400	15.75"x9.84"	1.18"	18.54lb



V-Blocks With Clamp

Material: Alloy Steel
Hardness: HRC 50



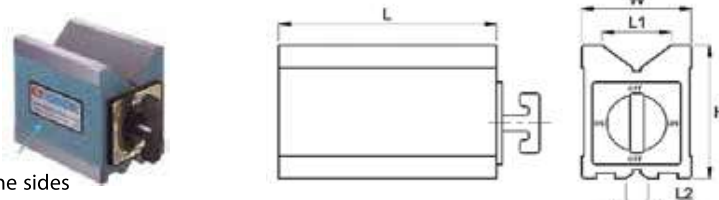
Made in Taiwan

Order No.	Designation	W	H	L	V	V1	Weight
2007-020	VBC-243	2.75"	1.75"	1.625"	1.339"	0.91"	4.19lb
2007-040	VBC-009	4"	3"	3"	2.323"	N/A	8.61lb

Magnetic V-Block

Permanent magnets
For round and square workpieces

no magnet on the sides



Made in Taiwan

Order No.	Designation	Range	H	W	L	L1	L2	Magnetic Power	Weight
2015-501	VCP-25	0.275" - 2.36"	3.76"	2.76"	4"	1.97"	0.75"	154.32lbf	4.19lb

Precision Angle Blocks

Set of 12pcs
Simple, quick angle set-up
Accuracy: 0.0001"
Length: 3" Thickness: 1/4"

Sizes: 1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°,
10°, 15°, 20°, 25°, 30°

Material : Oil-hardened, ground Steel



Made in Taiwan

Order No.	Designation	Weight
2006-001	AB-130	2.18lb

Magnetic Base



Made in Taiwan

Order No.	Designation	Base size L x W x H	Holding Power	Main Rod OD x L	Sub Rod OD x L	Weight
2015-619	VMF-112	1.36"x1.18"x1.38"	66lb/30kg	20x70mm	15x65mm	1.32lb
2015-603	VMB-02	2.36"x1.97"x2.17"	176lb/80kg	12x171mm	10x153mm	3.53lb
2015-605	VMB-106	2.87"x1.97"x2.1"	220lb/100kg	25x125mm	25x125mm	4.19lb
2015-610	VMB-06	2.36"x1.97"x2.17"	176lb/80kg	16X208mm	N/A	3.53lb
2015-606	VMB-106H	2.95"x1.97"x2.1"	220lb/100kg	25x125mm	25x125mm	4.86lb
2015-600	VMB-182H	2.87"x1.97"x2.1"	220lb/100kg	32x122mm	24x14x114mm	3.86lb



Universal Magnetic Stand

- Central mechanical clamping
- Chrome steel arm length 13.8"
- For dial indicators with 3/8", 8mm shank and test indicators with davetail
- With fine adjustment
- Prismatic magnetic base with on/off switch
- Packed in card box



Code No.	Magnetic Force	Base (LxWxH)	Weight
230-8180	176lbf	2.28" x 1.97" x 2.17"	3.30lb

Vacuum Base Dial Indicator Holder

- To be used on Granite/cast Iron Surfaces
- Powerful vacuum base holder
- For dial indicators with 3/8", 8mm shank and test indicators with davetail
- Steel arm length: 11"
- Die casting base
- Packed in card box



Code No.	Base (DxH)	Weight
230-8210	3.54" x 1"	1.32lb

Universal Dial Indicator Stand

- Chromed steel column, \varnothing 0.55"x7.87" plus \varnothing 0.47"x10.63"
- With fine adjustment
- For dial indicators with 3/8", 8mm shank and test indicators with davetail
- Steel base with T-groove
- Packed in card box



Code No.	Base (LxWxH)	Weight
30-8227	8.66" x 2.28" x 1.38"	7.04lb

Precision Comparator Stand

- Cast base
- Hardened steel working table, ground and lapped
- Precision clamp with fine adjustment, range 1-1.2mm
- For dial indicators with 3/8" or 8mm shank
- Packed in card box



Code No.	Working Table	Working Table Flatness	Weight
7132-80	3.15" x 3.15"	1.5 μ m	5.50lb



90° Precision Inspection Beveled Edge Squares

- DIN875/00
- Hardened stainless steel
- With two bevelled edges
- Working surface lapped
- Packed in cardbox
- Supplied with a certificate



Code No.	Size	Section	Weight
240-1273	2" x 1.6"	0.55" x 0.39"	0.08lb
240-1280	3" x 2.0"	0.55" x 0.39"	0.11lb
240-1297	3.9" x 2.8"	0.71" x 0.47"	0.22lb
240-1303	5.9" x 3.9"	0.94" x 0.55"	0.57lb
240-1310	7.9" x 5.1"	1.10" x 0.63"	0.95lb

Universal Bevel Protractor

- Made of stainless steel
- Laser marking graduation
- All measuring surfaces hardened and lapped
- Adjustable bezel
- Accurate angle base as standard accessory
- Packed in cardbox



Code No.	Blades in Set	Measuring Range	Graduation	Accuracy	Weight
242-0504	6"/8"/12"	0- 360°	5'	±5'	2.54lb

Digital Universal Bevel Protractor

- Made of stainless steel
- All measuring surfaces hardened and lapped
- Large LCD display with clear reading
- Two display lines, up line with 0.005° reading and down line with 30"
- Preset to 360°/180°/90°, two measuring directions selectable
- With buttons Mode, SET, ZERO/ON and OFF
- With locking screw system
- Accurate angle base as standard accessory
- Packed in cardbox with 3V CR2032 battery



Code No.	Blades in Set	Measuring Range	Graduation	Accuracy	Weight
242-0511	6"/8"/12"	0- 360°	0.05°/30"	±5'	2.97lb



Combination Square

- Made of cast iron
- Square head, protractor and center head
- Stainless steel blade with etched clear graduation
- Fine milled measuring surfaces
- Blade graduation:
Metric top: 0.5 mm, bottom: 1mm, rear side the same
Inch top: 1/64", bottom: 1/32", rear side the same
- Accuracy : $\pm 0.006"$
- Range: 0-180°
- Packed in plastic box



Code No.	Blades in Set	Weight
240-0733	12"/300mm	2.76lb

Digital Protractor & Level

**Ideal tool for precise leveling ,measuring of squareness.
IP65 protection, water and dust resistant.**

- Sturdy housing with aluminium double-sided V-frame
- Large LCD display, with backlight
- Display always reads upright, no matter which way the level is turned
- With data hold function, ABS system easy for self calibration
- ON/OFF and zero button, zero setting at any position
- No special instruments needed for recalibration
- Measuring range: 360° (4x90°)
- Resolution: 0.05°
- Accuracy: 0° and 90° $\pm 0.1^\circ$; other angle $\pm 0.2^\circ$
- Battery: AAA x2
- Packed in card box



Code No.	Weight
242-0702	0.62lb



Digital Universal Bevel Protractor

- Large LCD for easy reading
- LCD display is foldable
- With magnetic V-base
- Two buttons: ON/OFF, HOLD
- Degree and slope conversion
- Dimensions: 2.16x2.24x1.26"
- Measuring range $\pm 180^\circ$
- Resolution: $\pm 0.1^\circ$
- Battery: AAA x2
- Packed in card box



Code No.	Weight
242-0719	0.17lb

Master Spirit Level

- Made of special cast iron with high resistance to wear
- V-groove on bottom for shafts



Order No.	Size	Accuracy	Weight
6126-006	6"	0.0002"/10"	2.64lb
6126-008	8"	0.0002"/10"	3.96lb
6126-012	12"	0.0002"/10"	5.8lb

Frame Spirit Level

- Made of special cast iron with high resistance to wear
- V-groove on the bottom and the vertical edge



Order No.	Size	Accuracy	Weight
6125-1503	6" X 6"	0.0002"	7.92lb
6125-2002	8" X 8"	0.0002"	11.90lb
6125-3003	12" X 12"	0.0002"	17.61lb



Steel Gauge Block Sets

According to ASME B89.1-9-2002

Inch

- Made of high quality alloy steel
- Hardness of measuring face \geq HRC64
- Supplied with inspection certificate
- Packed in wooden box
- Daks certificate is available based on requirement with additional cost



Grade 0	Grade AS-1	Grade AS-2	Pcs/Set	Nominal Size	Steps	Pieces
Order No.	Code No.	Code No.				
280-5158	280-5165	280-5172	81	0.1001-0.1009"	0.0001"	9
				0.101-0.149"	0.001"	49
				0.05-0.95"	0.05"	19
				1-4"	1"	4
280-5189	280-5196	280-5202	36	0.1001-0.1009"	0.0001"	9
				0.101-0.109"	0.001"	9
				0.11-0.19"	0.01"	9
				0.1-0.5"	0.1"	5
				0.05", 1", 2", 4"	0.1"	4

Steel Gauge Block Sets

According to DIN EN ISO 3650

Metric

- Made of high quality alloy steel
- Hardness of measuring face \geq HRC64
- Supplied with inspection certificate
- Packed in wooden box
- Daks certificate is available based on requirement with additional cost



Grade 0	Grade AS-1	Grade AS-2	Pcs/Set	Nominal Size mm	Steps	Pieces
Order No.	Code No.	Code No.				
280-5066	280-5073	280-5080	87	1.001-1.009	0.001	9
				1.01-1.49	0.01	49
				0.5-9.5	0.5	19
				10-100	10	10

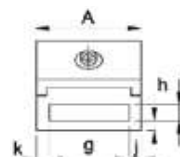
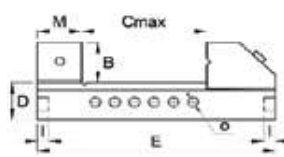


Tool Make Vises

Hardened by heat treatment and precisely ground
Squarness and Parallelism are $\pm 0.005\text{mm}$
Hardness: 54 HRC



Made in Taiwan



unit : mm

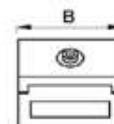
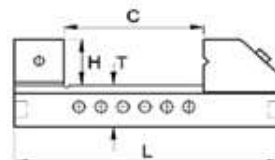
Order No.	Designation	A	B	C max	D	E	I	f	g	h	j	k	H	M	O	Weight
2003-012	VMV-25	62	34	89	28	170	7	10	52	6	5	5	62	30	8	7.28lb
2003-013	VMV-30	72	34	99	32	190	9	12	56	7	8	8	66	35	8	9.93lb
2003-014	VMV-35	88	45	120	40	225	12	12	64	11	12	12	85	40	10	15.45lb

Precision Tool Maker Vises

Made of high quality Steel
Parallelism: 0.0002"/4"
Squarness: $\pm 0.0002"$
Hardness: 58 ~ 62 HRC



Made in Taiwan



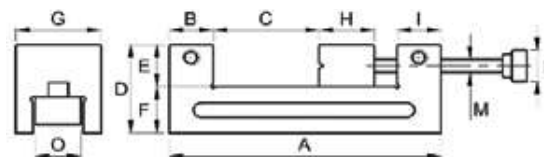
Order No.	B	C	H	T	L	Weight
2003-0210	2.48"	3.35"	1.38"	1.10"	6.89"	6.6lb
2003-0220	2.87"	3.94"	1.57"	1.26"	7.48"	9.0lb
2003-0230	3.46"	4.92"	1.77"	1.57"	9.25"	16.0lb
2003-0240	3.94"	4.92"	1.97"	1.57"	9.65"	22lb

Precision Tool Maker Vises

Made of high quality Steel
Parallelism: 0.0002"/4"
Squarness: $\pm 0.0002"$
Hardness: 58 ~ 62 HRC



Made in Taiwan



unit : mm

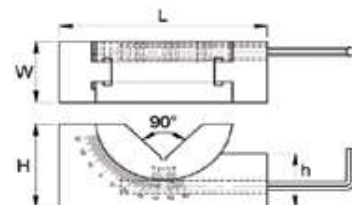
Order No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Weight
2003-0120	175	25	75	60	29	30	62	44.8	25	10	10.9	39.6	18.95	26	60	8.36lb
2003-0130	180	30	71	70	70	29	40	72	51.85	25	14	12.35	50.35	18.95	26	11lb
2003-0140	250	35	121	73	38	35	80	55.4	35.55	10.8	11.6	11.6	54.85	25.35	30.2	14.3lb

Micro-Adjustable Angle Plate

Hardend and ground
Accuracy: ± 10 sec.



Made in Taiwan



unit : mm

Order No.	Designation	H	W	L	h	Weight
2005-010	VAPM-1	47	46	102	28	3.1lb
2005-011	VAPM-2	47	30	102	28	2.2lb
2005-012	VAPM-3	32	25	75	22	1.1lb

Sine Bar

Parallelism: 0.00012"
Tolerance within 0.0002"



Made in Taiwan



Order No.	Designation	Length	Width	Height	Center Distance	Hardness	Weight
2004-020	V-S25	6-3/8"	1"	1-1/4"	5"	HRC 52	2.2lb



Digital Protractors

For fast and accurate measurement
Stainless steel
Range: 0-180°



Order No.	Size	Measuring Length	Resolution	Accuracy	Weight
242-200	6" x 8"	0-180°	0.05°	±15'	0.60lb
242-300	8" x 12"	0-180°	0.05°	±15'	1.04lb

Beam Trammel

- Satin chromed hardened stainless steel
- Interchangeable scribes
- Packed in wooden box



Order No.	Range	Resolution	Weight
250-1242	0-300mm	0.1mm	2.63lb
250-1259	0-500mm	0.1mm	7.70lb

Digital Marking Gauge

- Length marking and measuring
- Angle marking and measuring
- Locking screw
- Black anodized surface
- Packed in cardbox



Order No.	Range	Resolution for Length	Resolution for Angle	Weight
250-1761	0-8"/0-200mm	0.0004"/0.01mm	0.05°	0.75lb



Welding Gage

- Stainless steel
- Suitable to inspect flat welded seams and corners
- For angles: 60, 70, 80, 90
- ON/OFF, mm/inch conversion
- ZERO setting at any position



Order No.	Range	Resolution	Accuracy	Weight
269-120	0-0.8"/0-20mm	0.0004"/0.01mm	0.004"/0.1mm	0.22lb

Welding Gage

- Adjustable Scale
- Stainless steel
- To inspect flat welded seams and corners
- Accuracy: 0.02"
- Graduation: 1/16" , 1mm
- Length: 0 -2.36" / 0-60mm
- Angle Range: 0 - 60



Order No.	Range
269-060	0-1"(0-25mm)

Screw Pitch Gages

- For checking the pitch of screw thread
- Blades made from hardened spring steel
- Packed in plastic bag



Order No.	Blades	Range	Blade Pitch	Thread Type
260-2560	52	0.25-6.00mm /4-62TPI	0.25, 0.30, 0.035, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1.0, 1.25, 1.5, 1.75, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0mm 4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62 tpi	Metric 60°, Withworth 55°
260-2515	12	2-20mm	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20mm	TR 30°



Precision Feeler Gauge

- Blades are made of Spring steel and hardened
- Length of Blades: 3.94"/100mm
- Nichel plated handle
- Packed in plastic bag



Order No.	Number of Blades	Range	Blades	Weight
5120-232	32	0.0015-0.025"		0.27lb

Hand-Held Refractometer

- Built-in automatic temperature compensation system
- For measuring the optimal concentration of water based coolant
- Rugged stainless steel housing with rubber handle
- With adjusting screw, folding cover, rubber eye cup, quality optic
- Size: 6.77 × φ1.14"
- Leather case



Code No.	Range	Reading	Accuracy	Compensation Temperature Range	Weight
522-0354	0-32%	0.02%	± 20%	10°C ~ 30°C	0.35lb