



Vinculo

INDUSTRIAL TOOLS SUPPLY

PRECISION MEASURING TOOLS



CUTTING & CARBIDE TOOLS



MACHINE TOOL ACCESSORIES



SHOP SUPPLIES



CAT. No. 30N

Effective 2022

DIGITAL ELECTRONIC CALIPERS

3-KEY AUTO-OFF DIGITAL ELECTRONIC CALIPERS



**INCH/METRIC
.0005" RESOLUTION**

**0~6" Range
4100-0030**

- Auto power off or manual on/off key.
- Three-key Model: Inch/MM, On/Off & Zero.
- Switchable inch/metric, with resolution to .0005"/.01mm on high contrast easy to read LCD display.
- 4-way measurements: Outside, Inside, Depth & Step.
- Floating zero.
- Body and measuring surfaces are hardened stainless steel.
- Standard SR 44, 1.55V battery included.
- With fitted case.
- Meets DIN 862.

REPLACEMENT BATTERY (ITEM #4102-0030)

Item#	Range	Accuracy
4100-0029	0-4" / 0-100mm	± 0.001" / 0.02mm
4100-0030	0-6" / 0-150mm	± 0.001" / 0.02mm
4100-0031	0-8" / 0-200mm	± 0.001" / 0.03mm
4100-0032	0-12" / 0-300mm	± 0.0015" / 0.04mm

Dasqua® METAL HOUSING BIG SCREEN DIGITAL ELECTRONIC CALIPERS



**0~6" Range
2117-9105**

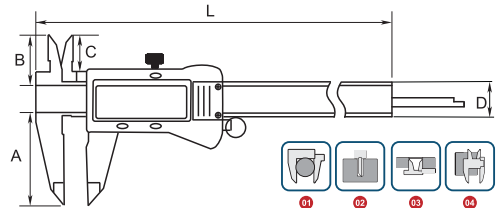
- Stainless steel frame.
- Silky smooth movement throughout.
- Hardened, ground and lapped measuring surfaces.



**INCH/METRIC
.0005" RESOLUTION**

REPLACEMENT BATTERY (ITEM #4102-0032)

Item#	Range	Reading	(mm)					Accuracy
			A	B	C	D	L	
2117-9105	0-6"/0-150mm	0.01mm/0.0005"	40	20	15.5	16	235	0.02mm/0.001"
2117-9110	0-8"/0-200mm	0.01mm/0.0005"	50	24	19.5	16	287	0.03mm/0.0015"
2117-9115	0-12"/0-300mm	0.01mm/0.0005"	60	26	21.5	16	290	0.03mm/0.0015"



Z-Limit ULTRA SERIES DIGITAL ELECTRONIC CALIPERS



- Manufactured and inspected at world class factory that produces the highest quality US brands.
- Last measuring position retained when shut off
- 4-way measurements: Outside, Inside, Depth & Step
- Body is hardened stainless steel
- Automatic shut-off after 5 minutes of non-use
- Three-key Model: Inch/MM, On/Off & Zero
- Standard CR-2032(3V) battery included
- With thumb roller
- Meets DIN 862

**0~6" Range
4109-0030**



Item#	Range	Accuracy
4109-0030	0-6"/0-150mm	.001" / .01mm
4109-0031	0-8"/0-200mm	.001" / .01mm
4109-0032	0-12"/0-300mm	.0015" / .04mm

**INCH/METRIC
.0005" / .01mm GRADUATION**

REPLACEMENT BATTERY (ITEM #4102-0032)

DIGITAL ELECTRONIC CALIPERS

Fraction/Inch/Metric DIGITAL ELECTRONIC CALIPERS



- Reads in fraction of an inch, easy to read.
- Resolution 0.0005"/0.01mm/1/64th
- Press button to change mode mm/inch/fractional
- 4-way measurements: Outside, Inside, Depth & Step.
- Standard SR 44, 1.55V battery included.
- On/off switch and auto off
- Zero setting
- With fitted case.
- Meets DIN 862

0-6" Range
4100-3506

.0005" INCH/METRIC RESOLUTION

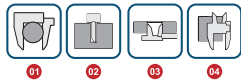
REPLACEMENT BATTERY (ITEM #4102-0030)

Item#	Range	Accuracy
4100-3506	0-6"/0-150mm	.001"/.02mm
4100-3508	0-8"/0-200mm	.001"/.03mm
4100-3512	0-12"/0-300mm	.0015"/.04mm

Dasqua® BIG SCREEN DIGITAL ELECTRONIC CALIPER



- Surfaces of beam ground (Parallelism: 0.015, 20% better than normal) to ensure smooth movement throughout.
- Special glass etching for super accuracy.
- Digit Size: 11.5mm.
- Inch, Metric, Fractional.
- Standard CR-2032 (3V) battery included.
- Meets DIN 862.



REPLACEMENT BATTERY (ITEM #4102-0032)

Item#	Range	Reading	(mm)					Accuracy
			A	B	C	D	L	
1804-1065	0-6"/0-150mm	0.01mm/0.0005"	40	20	15.5	16	235	0.02mm/0.001"

Dasqua® DIGITAL ELECTRONIC CALIPERS

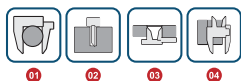


Fraction

- NEW Advanced design.
- Strictly made in accordance with DIN862.
- Silky smooth movement throughout.
- Hardened, ground and lapped measuring surfaces.

REPLACEMENT BATTERY (ITEM #4102-0032)

Item#	Range	Reading	(mm)					Accuracy
			A	B	C	D	L	
9020-1005	0-6"/0-150mm	0.01mm / 0.0005" / 1/128"	40	20	15.5	16	235	0.02mm/0.001"
2000-1010	0-8"/0-200mm	0.01mm / 0.0005" / 1/128"	50	24	19.5	16	287	0.03mm/0.0015"
2000-1015	0-12"/0-300mm	0.01mm / 0.0005" / 1/128"	60	26	21.5	16	390	0.03mm/0.0015"



DIGITAL ELECTRONIC CALIPERS

4-KEY DIGITAL ELECTRONIC CALIPERS



0~6" Range
4100-3006

.0005"/0.01mm INCH/METRIC RESOLUTION

- Four-key type: Hold-key, On/Off key, Inch/mm key & Zero key. Enter high/low dimensional limits-out of limits will flash on display.
- Body is hardened stainless steel.
- 4-way measurement for outside, inside, depth and step.
- Thumb roller for moving the slider in small and smooth increments.
- Hold-key can be used for data hold at any position.
- Standard SR 44, 1.55V battery included.
- With fitted case.
- Meets DIN 862

REPLACEMENT BATTERY (ITEM #4102-0030)

Item#	Range	Accuracy
4100-3006	0-6" /0-150mm	± .001"/.02mm
4100-3008	0-8" /0-200mm	± .001"/.03mm
4100-3012	0-12" /0-300mm	± .0015"/.04mm

Dasqua® ABSOLUTE IP54 WATER RESISTANT DIGITAL ELECTRONIC CALIPERS



- IP54 protection against water, oil, dust or any other liquid.
- Hardened stainless steel blade for long life.
- Silky smooth movement throughout.
- Fitted case.

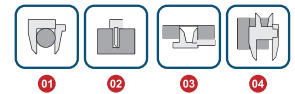
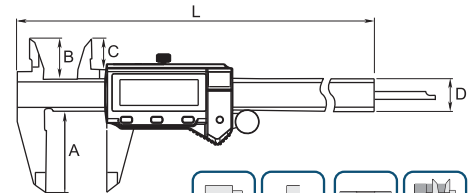
Absolute function NEW and GREAT for precision inspection:

All Dasqua digital calipers with this logo "Absolute" are equipped with the innovative Absolute-Reference System. The zero position just needs to be set once: After setting the zero position, the zero remains memorized for all further measurements. Therefore, once the caliper is switched ON or the slider is moved, the caliper is immediately ready for measurement.



REPLACEMENT BATTERY (ITEM #4102-0032)

Item#	Range	Reading	(mm)					Accuracy
			A	B	C	D	L	
2010-1005	0-6"/0-150mm	0.01mm / 0.0005"	40	20	15.5	16	235	0.02mm/0.001"
2010-1010	0-8"/0-200mm	0.01mm / 0.0005"	50	24	19.5	16	287	0.03mm/0.0015"
2010-1015	0-12"/0-300mm	0.01mm / 0.0005"	60	26	21.5	16	390	0.03mm/0.0015"



FLIP OVER DIGITAL ELECTRONIC CALIPERS

- Display flips 180° with display rotation function for true left handed operation.
- Can also be positioned for top viewing
- 4-way measurements: OD, ID, Depth and Step.
- Body is hardened stainless steel.
- Thumbroll for smooth measuring.
- True inch/metric conversion.
- Floating zero.
- Standard CR-2032 (3V) battery included.
- With fitted case.



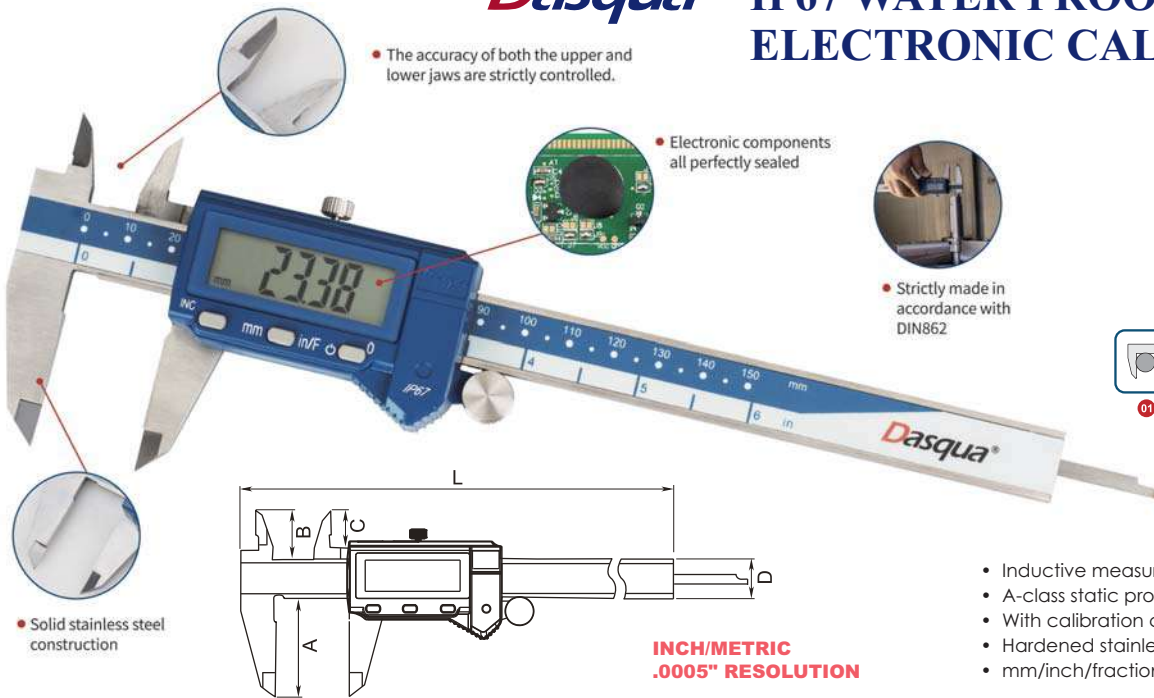
INCH/METRIC
.0005"/0.01mm RESOLUTION



REPLACEMENT BATTERY (ITEM #4102-0032)

Item#	Range	Accuracy	Battery
4100-3216	0-6"/0-150mm	.001"/.02mm	CR-2032/3V
4100-3218	0-8"/0-200mm	.001"/.02mm	CR-2032/3V

Dasqua® IP67 WATER PROOF DIGITAL ELECTRONIC CALIPERS



• The accuracy of both the upper and lower jaws are strictly controlled.

• Electronic components all perfectly sealed

• Strictly made in accordance with DIN862

- mm/in/F
- IP67 COOLANT & FLUID RESISTANT
- DIN 862
- Battery + CR2032

- 01
- 02
- 03
- 04

- Inductive measurement system.
- A-class static protection.
- With calibration certificate.
- Hardened stainless steel blade for long life.
- mm/inch/fraction

**INCH/METRIC
.0005" RESOLUTION**

Item#	Range	Reading	(mm)					Accuracy
			A	B	C	D	L	
2015-1005	0-6"/0-150mm	0.01mm / 0.0005" / 1/128"	40	20	15.5	16	235	0.02mm/0.001"
2015-1010	0-8"/0-200mm	0.01mm / 0.0005" / 1/128"	50	24	19.5	16	287	0.03mm/0.0015"
2015-1015	0-12"/0-300mm	0.01mm / 0.0005" / 1/128"	60	26	21.5	16	390	0.03mm/0.0015"

Dasqua® BUILT-IN BLUETOOTH IP54 WATER RESISTANT ABSOLUTE DIGITAL ELECTRONIC CALIPERS



- Strictly made in accordance with DIN862.
- IP54 protection against water, oil, dust or any other liquid.
- Silky smooth movement throughout.
- Hardened, ground and lapped measuring surfaces.

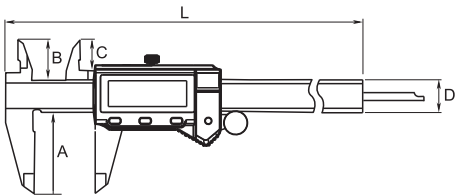
- ABSOLUTE
- Battery + CR2032
- Wi-Fi
- DIN 862
- mm/in/F
- IP54 COOLANT & FLUID RESISTANT
- Absolute



**INCH/METRIC
.0005" RESOLUTION**

ACCESSORIES

Item#	Description
2140-9997	Wireless Transmitter/Receiver
2140-9998	Bluetooth Transmitter
2140-9999	Cable



- 01
- 02
- 03
- 04

Item#	Range	Reading	(mm)					Accuracy
			A	B	C	D	L	
2025-1005	0-6"/0-150mm	0.01mm / 0.0005" / 1/128"	40	20	15.5	16	235	0.02mm/0.001"
2025-1010	0-8"/0-200mm	0.01mm / 0.0005" / 1/128"	50	24	19.5	16	287	0.03mm/0.0015"
2025-1015	0-12"/0-300mm	0.01mm / 0.0005" / 1/128"	60	26	21.5	16	390	0.03mm/0.0015"

DIGITAL ELECTRONIC CALIPERS

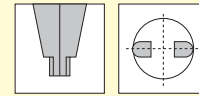
LONG RANGE DIGITAL ELECTRONIC CALIPERS

- Resolution to .0005"/.01mm on high contrast LCD display.
- Internal and external measurement.
- Absolute/Incremental measurement with fine adjustment.
- Body is hardened stainless steel, no-glare satin reading.
- Standard SR 44, 1.55V battery included.
- Switchable inch/metric.
- Preset function.
- On/Off button.
- With fitted wood case.
- Meets DIN 862

0~20" Range
4100-0033

Item#	Range	Jaw Length	Radiused Jaw Width	Accuracy
4100-0033	0-20"/ 0-500mm	4	0.787"	± 0.002"/ 0.05mm
4109-1034	0-24"/ 0-600mm	4	0.80"	± 0.002"/ 0.05mm
4109-1036	0-40"/ 0-1000mm	5	0.80"	± 0.002"/ 0.06mm
4100-0037	0-60"/ 0-1500mm	5-1/4	0.787"	± 0.004"/ 0.10mm
4100-0038*	0-80"/ 0-2000mm	6	0.787"	± 0.004"/ 0.10mm

* Truck Ship Only



Radiused jaws for accurate ID measurement

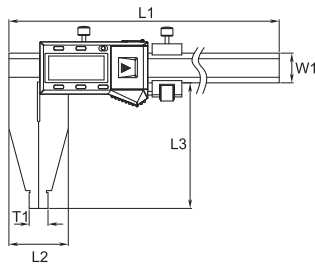
**INCH/METRIC
.0005" RESOLUTION**

REPLACEMENT BATTERY (ITEM #4102-0030)

Dasqua® INDUSTRIAL HEAVY DUTY DIGITAL ELECTRONIC CALIPERS

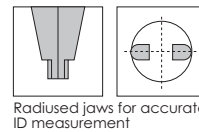
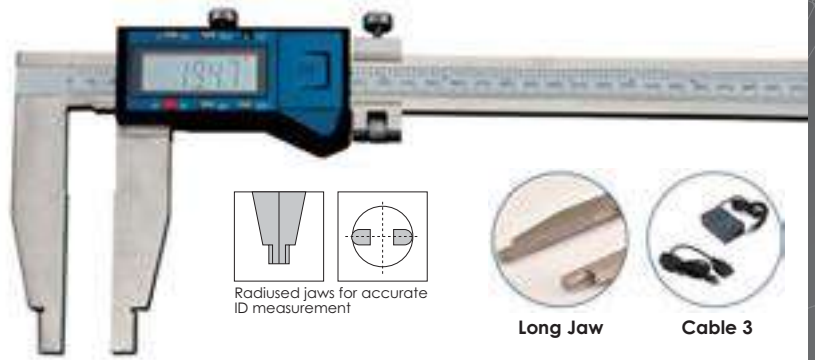


- Strictly made in accordance with **DIN862**.
- With fine adjustment.
- With hold function.
- Hardened stainless steel construction for long life.
- Metric/Inch conversion.



Competitive Price compared to other industrial-grade heavy duty calipers

**INCH/METRIC
.0005" RESOLUTION**



Radiused jaws for accurate ID measurement



Long Jaw



Cable 3

Cable 3 (ITEM #2220-9999)

Item#	Range	Reading	(mm)					Accuracy
			L1	L2	L3	W1	T1	
2220-8113	0-12"/0-300mm	0.01mm / 0.0005"	445	40	90	20	12.7	0.04mm/0.002"
2220-8116	0-24"/0-600mm	0.01mm / 0.0005"	770	44	100	24	20.32	0.05mm/0.002"
2220-8119	0-40"/0-1000mm	0.01mm / 0.0005"	1210	46	125	30	20.32	0.06mm/0.0025"

Pro-Series LONG RANGE DIGITAL ELECTRONIC CALIPERS



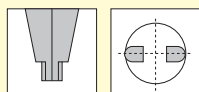
0~20" Range
4100-0233

- Manufactured and inspected at world class factory that produces highest quality US brands.
- Switchable inch/metric.
- High contrast LCD display.
- Preset function.
- On/Off button.
- Internal and external measurement.
- Absolute/Incremental measurement with fine adjustment.
- Body is hardened stainless steel, no-glare satin reading.
- Standard CR-2032, 3V battery included.
- With fitted case.
- Meets DIN 862

**INCH/METRIC
.0005" / .01MM RESOLUTION**

REPLACEMENT BATTERY (ITEM #4102-0032)

Limited Supply!



Radiused jaws for accurate ID measurement

Item#	Range	Jaw Length	Radiused Jaw Width	Accuracy
4100-0233	0-20"/ 0-500mm	4"	0.787"	± .001"/ .02mm
4100-0234	0-24"/ 0-600mm	4"	0.787"	± .0015"/ .03mm
4100-0236	0-40"/ 0-1000mm	6"	0.787"	± .002"/ .05mm

Dasqua® IP54 WATER RESISTENT LONG RANGE DIGITAL ELECTRONIC CALIPERS



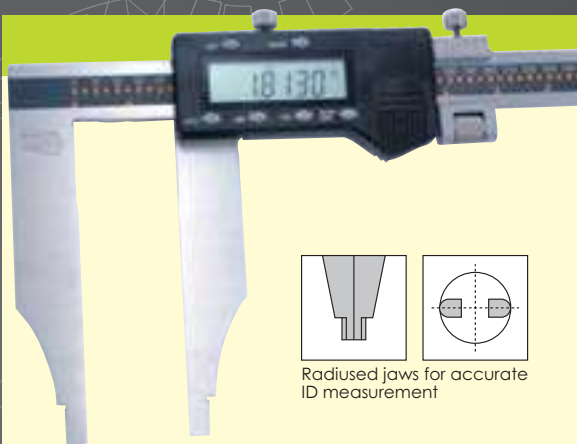
Radiused jaws for accurate ID measurement



- With sturdy frame and big size for high stability.
- Made of solid stainless steel.
- Strictly made in accordance with **DIN862**.
- With fine adjustment.
- With Data-Output and Metric-Inch Conversion function.

REPLACEMENT BATTERY (ITEM #4102-0030)

Item#	Range	Resolution	(mm)					Accuracy
			L	A	B	W	T	
2220-3575	0-60"/0-1500mm	0.01mm / 0.0005"	1800	80	125	41.5/52	20	0.11/0.0045"
2220-3580	0-80"/0-2000mm	0.01mm / 0.0005"	2300	80	150	41.5/52	20	0.14/0.0055"



Radiused jaws for accurate ID measurement

Z-Limit LONG-JAW DIGITAL ELECTRONIC CALIPERS

- Manufactured and inspected at world class factory that produces highest quality US brands.
- Internal and external measurement.
- Absolute/Incremental measurement with fine adjustment.
- Body is hardened stainless steel, no-glare satin reading.
- Standard CR-2032, 3V battery included.
- Switchable inch/metric.
- High contrast LCD display.
- Preset function.
- On/Off button.
- With fitted case.
- Meets DIN 862



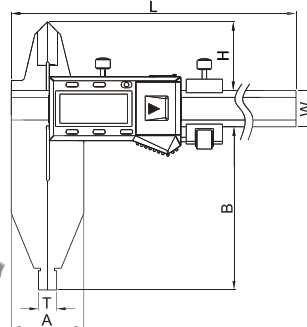
INCH/METRIC .0005" / .01MM RESOLUTION
REPLACEMENT BATTERY (ITEM #4102-0032)

Item#	Range	Jaw Length	Radiused Jaw Width	Accuracy
4109-0242	0-24" / 0-600mm	6"	0.787"	± .0015" / .03mm
4109-0243	0-24" / 0-600mm	8"	0.787"	± .0015" / .03mm

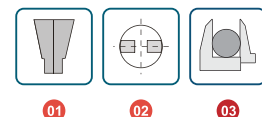
Dasqua® IP54 WATER PROOF HEAVY DUTY DIGITAL ELECTRONIC CALIPERS-WITH UPPER JAWS



INCH/METRIC
.0005" RESOLUTION



- With sturdy frame and big size for high stability.
- Made of solid stainless steel.
- Strictly made in accordance with **DIN862**.
- With fine adjustment.
- With Data-Output and Metric-Inch Conversion function.

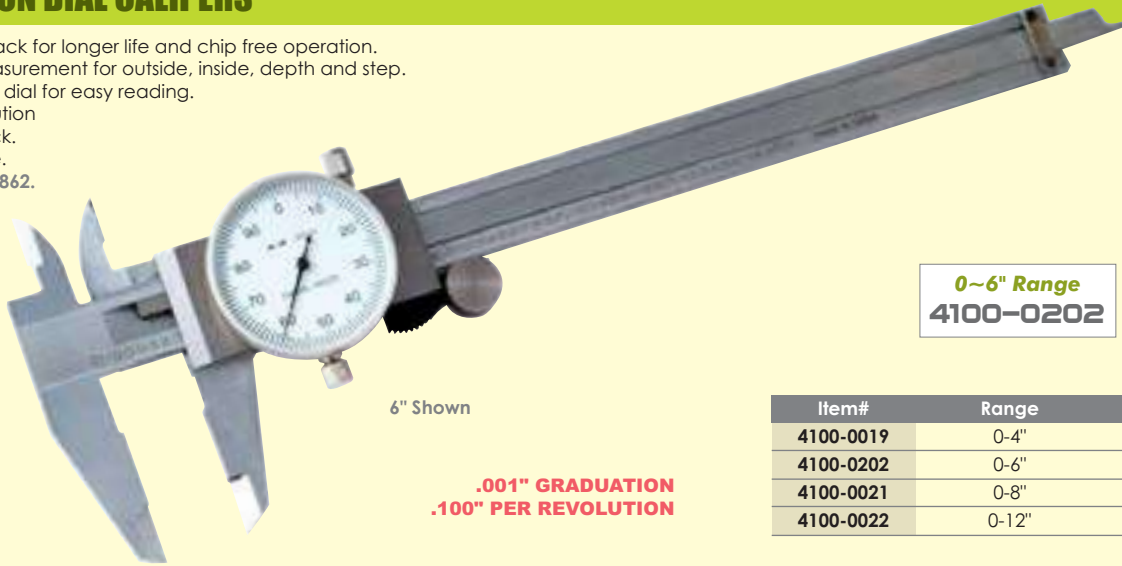


Item#	Range	Reading	(mm)						Accuracy
			L	A	B	W	T	H	
2710-1105	0-12"/0-300mm	0.01mm / 0.0005"	445	40	90	20	10	38	0.04mm/0.002"
2710-1110	0-20"/0-500mm	0.01mm / 0.0005"	670	52	150	24	20	60	0.05mm/0.002"
2710-1113	0-24"/0-600mm	0.01mm / 0.0005"	770	54	150	24	20	60	0.05mm/0.002"
2710-1115	0-40"/0-1000mm	0.01mm / 0.0005"	1210	60	150	30	20	63	0.06mm/0.0025"

DIAL CALIPERS

PRECISION DIAL CALIPERS

- Covered rack for longer life and chip free operation.
- 4-way measurement for outside, inside, depth and step.
- Adjustable dial for easy reading.
- One revolution
- Positive lock.
- Fitted case.
- Meets DIN 862.



6" Shown

**.001" GRADUATION
.100" PER REVOLUTION**

**0~6" Range
4100-0202**

Item#	Range	Accuracy
4100-0019	0-4"	.001"
4100-0202	0-6"	.001"
4100-0021	0-8"	.0012"
4100-0022	0-12"	.0016"

Pro-Series PRECISION DIAL CALIPER

- Direct reading, reliable and accurate.
- Graduations of .001" in one revolution.
- Hardened stainless steel bar, rack, gears, depth rod and measuring faces.
- Screw on rack, covered for chip free operation.
- Shock proof.
- Knife-edge contacts for both inside and outside measurements.
- 4-way measurements: inside, outside, depth and step.
- Lock screw for holding the sliding jaw in position.

- One hand use with the thumb operated fine adjustment roller.
- Decimal, Fraction Conversion chart on back of caliper.
- Lock screw for knurled dial (1-1/2") bezel.
- With fitted case.
- Meets DIN 862



**HHIP
PRO-SERIES**

**.001" GRADUATION
.100" PER REVOLUTION
.001" ACCURACY**

**0~6" Range
4100-0020**



BLACK FACE PRECISION DIAL CALIPERS

- Covered rack for longer life and chip free operation.
- 4-way measurement for outside, inside, depth and step.
- Adjustable dial for easy reading.
- One revolution
- Positive lock.
- Fitted case.
- Meets DIN 862.



**0~6" Range
4100-0201**

**.001" GRADUATION
.100" PER REVOLUTION**

Item#	Range	Accuracy
4100-0201	0-6"	.001"
4100-0221	0-12"	.0016"

Dasqua® MACHINIST GRADE SHOCK PROOF DIAL CALIPERS

DIN 862

SHOCK-PROOF



01



02

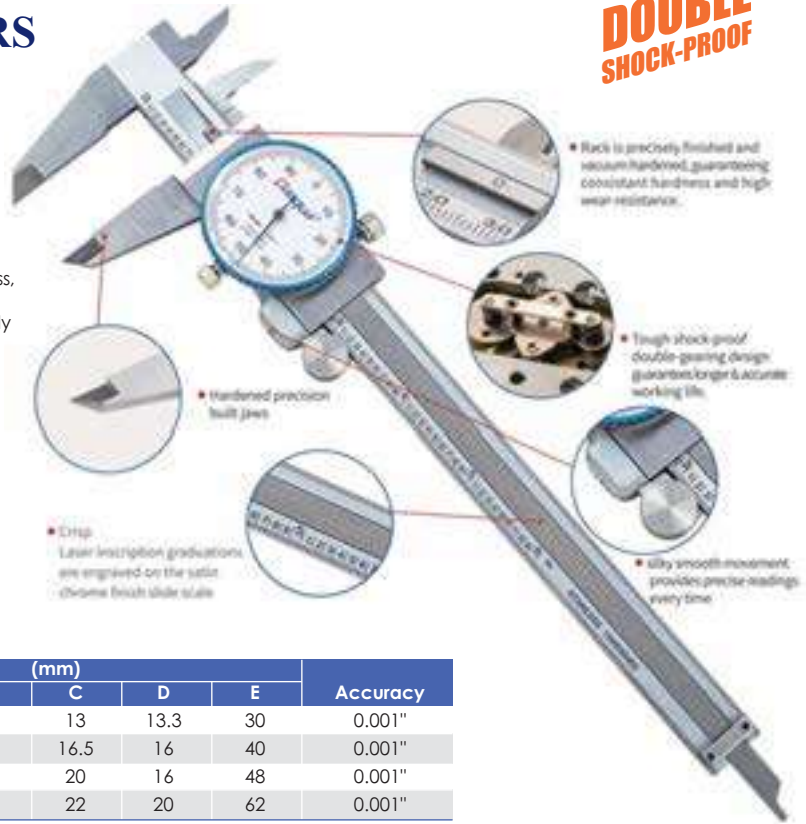
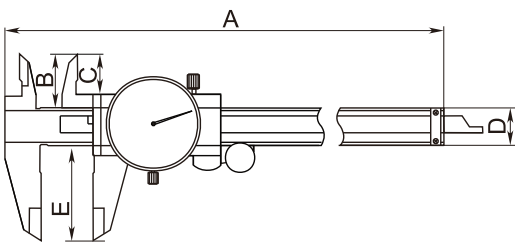


03



04

- The entire body jaws are vacuum hardened with uniform hardness, guaranteeing longer wear-resistance and longer service life.
- The upper and lower parts of the slide scale body are precisely ground to ensure smooth operation.
- Strictly in accordance with **DIN862** standard.
- Made of high quality stainless steel.



DOUBLE SHOCK-PROOF

Item#	Range	Graduation	(mm)					Accuracy
			A	B	C	D	E	
1332-4105	0-4"	0.001"	169	18	13	13.3	30	0.001"
1332-4110	0-6"	0.001"	236	21	16.5	16	40	0.001"
1332-4115	0-8"	0.001"	285	24	20	16	48	0.001"
1332-4120	0-12"	0.001"	410	28	22	20	62	0.001"

Z-Limit ULTRA QUALITY SHOCK PROOF DIAL CALIPER

- Manufactured and inspected at world class factory that produces highest quality European brands.
- Graduations of .001" in one revolution.
- Hardened stainless steel very well finished.
- Smooth operating, Shockproof.
- Screw on rack.
- Knife-edge contacts for both inside and outside measurements.
- 4-way measurements: inside, outside, depth and step.
- One hand use with the thumb operated fine adjustment roller.
- With fitted durable case.
- Meets DIN 862

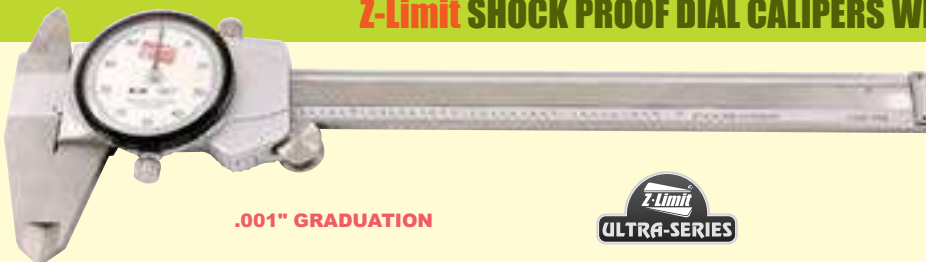


Limited Supply!

**.001" GRADUATION
.001" ACCURACY
SMOOTH MOVEMENT**

**0-6" Range
4109-0006**

Z-Limit SHOCK PROOF DIAL CALIPERS WITH METAL HOUSING



.001" GRADUATION

**Z-Limit
ULTRA-SERIES**



- Manufactured and inspected at world class factory that produces highest quality US brands.
- 4-way measuring: outside, inside, depth and step.
- Silky smooth movement throughout the entire range, tough, shockproof design.
- Stainless steel construction.
- .100" range per revolution.
- .001" reading dial face.
- Supplied in a shop-hardened case.

Limited Supply!

Item#	Range	Accuracy	Jaw Length
4109-2801	0-6"	.001"	1.6"
4109-2802	0-8"	.001"	2.0"
4109-2803	0-12"	.0015"	2.5"

LONG RANGE DIAL CALIPERS

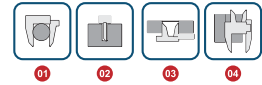
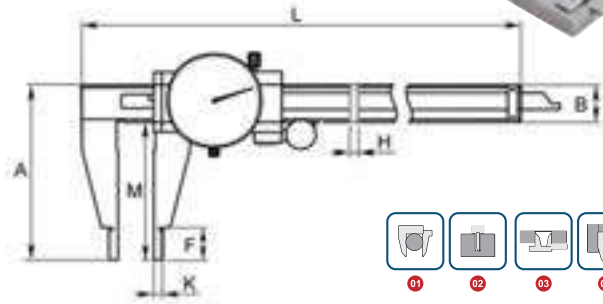
Dasqua® LONG RANGE HEAVY DUTY SHOCK PROOF DIAL CALIPERS

SHOCK-PROOF **DIN 862**



- Tough shock-proof gearing.
- 4 usages for measuring outside diameter, inside diameter, step and depth.
- Solid stainless steel construction.
- Strictly made in accordance with DIN862.
- Distinct lines and figures laser etched against satin chrome finish.
- Locking screw for stable reading.
- Extra rigid main beam for high stability.
- Hardened, ground and lapped measuring surfaces.
- Silky smoothy movement throughout.
- Beam graduation in 0.100" increments.

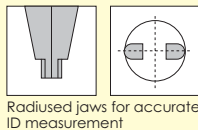
**.100" PER REVOLUTION
.001" GRADUATION**



Item#	Range	Graduation	(mm)							Accuracy
			L	A	B	F	H	K	M	
1432-4105	0-18"	0.001"	580	108	22	20	6.0	5	86	±0.002"
1432-4110	0-20"	0.001"	630	108	22	20	6.0	5	86	±0.002"
1432-4115	0-24"	0.001"	730	108	22	20	6.0	5	86	±0.002"
1432-4120	0-40"	0.001"	1200	168	28	22	8.0	10	140	±0.0025"

Ultra-Series LONG RANGE DIAL CALIPERS

- Manufactured and inspected at world class factory that produces highest quality US brands.
- Made of stainless steel hardened and precision ground.
- One revolution per each 0.100"
- Covered screw-on rack made from one piece.
- 3-way measurement: Outside, Inside and Depth.
- Thumb roll for rapid measuring.
- Beam graduation in 0.100" increments stain chrome finished.
- With fitted case.
- Meets DIN 862



SMOOTH MOVEMENT

Item#	Range	Jaw Depth	Radiused Jaws Width	Accuracy
4100-2428	0-18"	4"	0.787"	.0028"
4100-2430	0-20"	4"	0.787"	.0030"
4100-2434	0-24"	4"	0.787"	.0038"



Limited Supply!

**.100" PER REVOLUTION
.001" GRADUATION**

CENTER LINE GAGE SETS

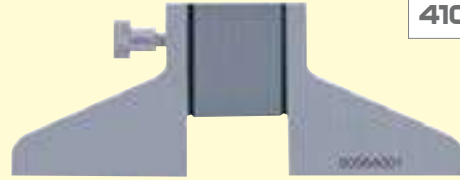
- Checks distance between different size hole, or to an edge from a hole. Cone will seek center.
- Adapts to most dial calipers.
- Reads in exact figures.
- High grade alloy steel.



Item#	For
4100-0040	4", 6", 8" Calipers
4100-0041	10", 12" Calipers

Z-Limit DEPTH MEASURING BASE FOR 6" CALIPERS

Slot width: .64"
Base width: 3"



4109-0046

CALIPER ACCESSORY KIT

- Components are hardened.
- 4.1mm slot to fit all kinds of brands.
- **Kit includes:**
4 sets of points
4 sets of screws
1 set of clamps
1 Allen wrench



4100-0044

REPLACEMENT BATTERIES FOR DIGITAL ELECTRONIC CALIPERS

Battery height 5.40mm.
Battery diameter 11.60mm.



SR44, 1.55V
4102-0030



Battery height 3.2mm.
Battery diameter 20mm.

CG2032, 3V
4102-0032

CASES FOR CALIPERS (REPLACEMENT)

- Fits most dial and electronic calipers.
- Durable ABS material.
- **Case only.**



Item#	Fits Caliper	LxWxThick
4100-0030CASE	6"	9.8x3.5x1"
4100-0031CASE	8"	12.0x3.8x1"
4100-0032CASE	12"	16.7x4.9x1.1"

Pro-Series CASES FOR CALIPERS (REPLACEMENT)

- Fits most dial and electronic calipers.
- Durable ABS material.
- Modern & advanced design provides extra protection & depth accessory storage.
- **Case only.**

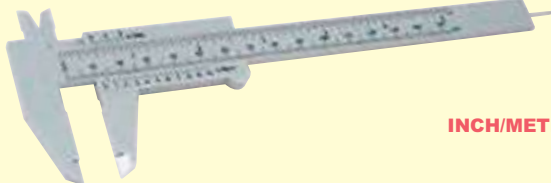


Item#	Fits Caliper	LxWxThick
4100-0030CV	6"	10.5x4x1.4"
4100-0031CV	8"	13x5x1.4"
4100-0032CV	12"	17x5.5x1.4"

VERNIER CALIPERS

PLASTIC VERNIER CALIPER

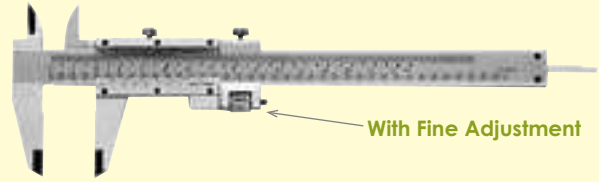
- Made from durable plastic material.
- 3-way measurement: Inside, outside and depth.
- Nice promotion item packed with blister card.
- Neon colors.



INCH/METRIC

Item#	Description	Graduation
4100-0001	0-6"/0-150mm	1/128"/ 0.05mm

PRECISION VERNIER CALIPER W/FINE ADJUSTMENT



With Fine Adjustment

- Satin chrome finish: Non-glare.
- Measuring faces are ground.
- Supplied with case.

Limited Supply!

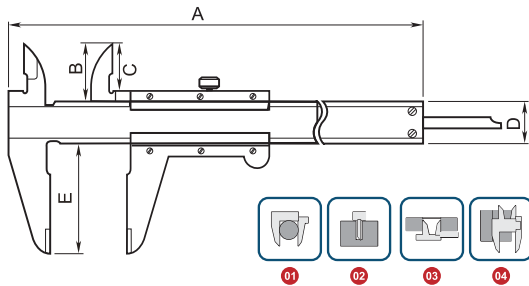
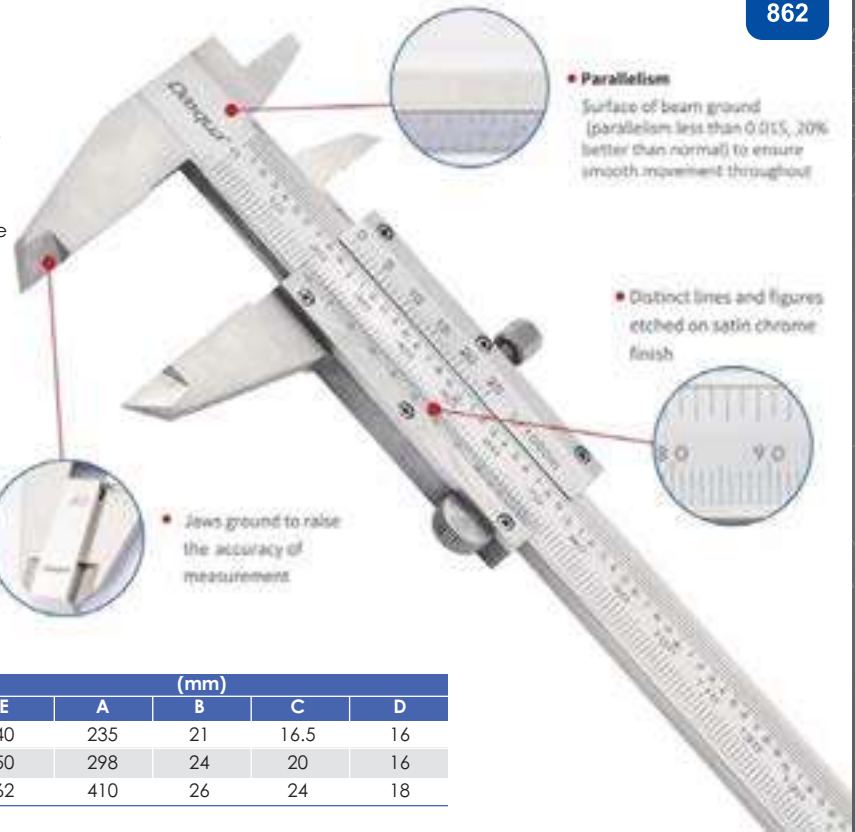
INCH/METRIC
.001"/.02mm GRADUATION

0~12"/0~300MM Range
4100-0005

Dasqua® VERNIER CALIPERS-LOCKING SCREW

DIN 862

- 4 usages for measuring outside diameter, inside diameter, step and depth.
- Made of solid stainless steel.
- Strictly made in accordance with DIN862.
- Distinct lines and figures etched against satin chrome finish.
- With locking screw for stable reading.
- Dual reading scales on vernier scale.
- Accuracy .0015"/.03mm.
- Ground and lapped measuring face provides wear resistance and long life.
- Raised sliding surface-helps prevent defacement of scale graduations.
- Case included.



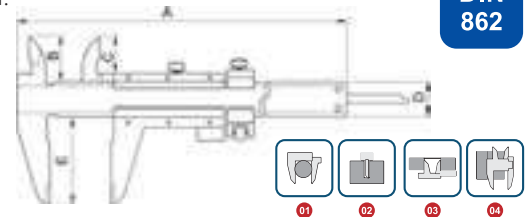
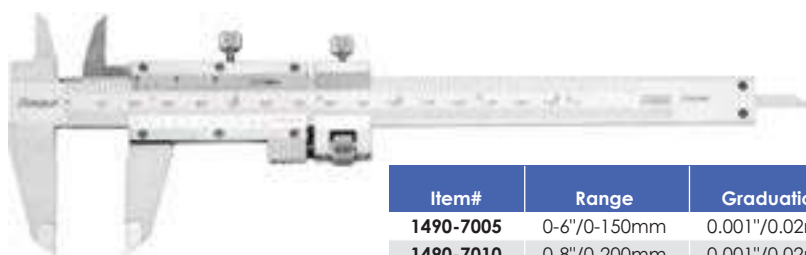
Item#	Range	Reading	(mm)				
			E	A	B	C	D
1550-2005	0-6"/0-150mm	0.02mm/0.001"	40	235	21	16.5	16
1550-2010	0-8"/0-200mm	0.02mm/0.001"	50	298	24	20	16
1550-2015	0-12"/0-300mm	0.02mm/0.001"	62	410	26	24	18

Dasqua® VERNIER CALIPERS-WITH FINE ADJUSTMENT

DIN 862

- 4 usages for measuring outside, inside, step and depth.
- Made of solid stainless steel.
- Strictly made in accordance with DIN862.
- Distinct lines and figures etched against satin chrome finish.

- With locking screw for stable reading.
- With fine adjustment.

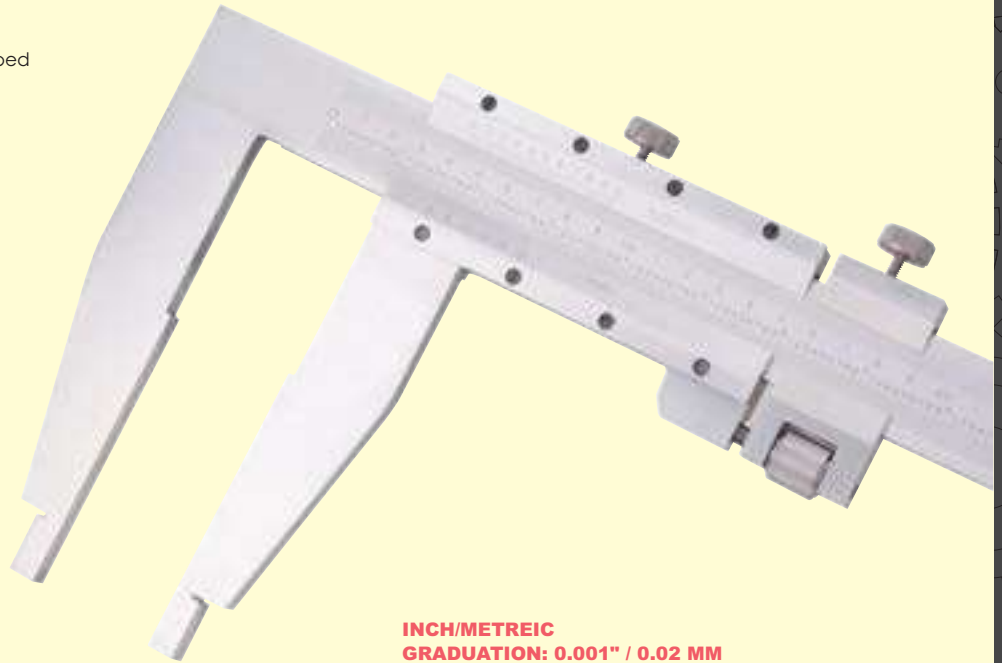


Item#	Range	Graduation	(mm)					Accuracy
			A	B	C	D	E	
1490-7005	0-6"/0-150mm	0.001"/0.02mm	235	21	16.5	16	40	0.03mm
1490-7010	0-8"/0-200mm	0.001"/0.02mm	298	24	19.5	16	50	0.03mm
1490-7015	0-12"/0-300mm	0.001"/0.02mm	410	26	20.0	18	55	0.03mm

PRECISION HEAVY DUTY LONG RANGE VERNIER CALIPERS

- With fine adjustment thumb screw
- Hardened stainless steel throughout.
- All measuring surfaces are ground and lapped for extreme accuracy.
- Supplied in wooden case.
- Satin chrome finish: Non-glare.
- Meets DIN 862

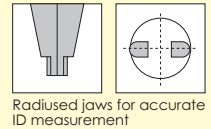
Reading .001" / .02mm



**INCH/METRIC
GRADUATION: 0.001" / 0.02 MM**

Item#	Range	Jaw Depth	Radiused Jaw Width
4100-0006	0-24" / 0-600mm	4"	10mm
4100-0008	0-40" / 0-1000mm	5-1/2"	20mm
4100-0009	0-60" / 0-1500mm	6-1/2"	20mm
4100-0010 ⁺	0-80" / 0-2000mm	7-1/2"	30mm

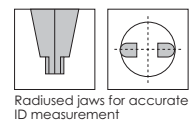
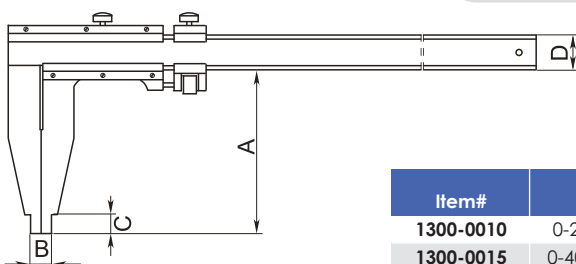
⁺ Truck Ship Only



Dasqua® LONG JAW VERNIER CALIPERS

- Hardened ground jaws with precision lapped measuring faces.
- Satin chrome finish, hardened stainless steel throughout for longer life.
- Black lines and figures against the satin chrome finish provide easy and error-free reading.
- Inch/Metric graduation.

- Two-way measurement: ID and OD.
- Jaws have rounded measuring faces for accurate inner diameter (ID) readings.
- Fine adjustment for precision measurement.
- Long jaws for hard to reach areas.
- Fitted plastic case.



Item#	Range	Reading	(mm)				Accuracy
			A	B	C	L	
1300-0010	0-24"/0-600mm	0.001"/0.02mm	100	10	12	25	±0.05mm/0.002"
1300-0015	0-40"/0-1000mm	0.001"/0.02mm	125	20	18	32	±0.07mm/0.0028"

INSPECTION SETS

Pro-Series 3PC INSPECTION TOOL KIT

0~6" Dial Caliper:

- 0.001" graduation in one revolution,
- Hardened stainless steel, screw-on rack, shock-proof,
- 4-way measurements (inside, outside, depth and step),
- Dial face 1-1/2" diameter with special designed knurled bezel,
- Decimal and fraction conversion chart on back of caliper

0~0.03" Dial Test Indicator:

- 0-15-0 reading, 0.0005" graduation,
- Complete with 2 stems (5/32" & 3/8"),
- Precision pivot bearing,
- 0.098" contact point,
- Dovetail mounts (top, back & front),
- Jeweled movements,
- Auto reversing.

4902-0003

Complete with fitted case

0~1" Outside Micrometer:

- 0.0001" graduation,
- Anvil and spindle hardened and precision ground, carbide tipped measuring faces, ratchet stop,
- Adjustment wrench supplied

Limited Supply!



4PC STUDENT'S KIT



0~1" Outside Micrometer:

- 0.0001" graduation
- Carbide tipped
- Ratchet stop

4902-0004

Complete with fitted case

4" Bevel Squarer:

- Beam size 2-3/4"
- Ground and lapped accuracy for straightness, parallelism, and at right angles.

0~6" Dial Caliper:

- 0.001" graduation
- 4-way measurement
- Stainless steel
- Shock-proof

6" Flex Ruler:

- 4R graduation
- Satin chrome finish
- Stainless steel

6PC CALIPER, MICROMETER & SQUARE KIT



0~6" Dial Caliper:

- 0.001" graduation
- 4-way measurement
- Stainless steel
- Shock-proof

Combination Square:

- 12" 4R blade
- Square head
- Protractor head
- Center head

0-1" Outside Micrometer:

- 0.0001" graduation
- Carbide tipped
- Ratchet stop

4902-0009

Complete with fitted case

Z-Limit 2PC VERNIER CALIPER & MIC KIT

- Manufactured and inspected at world class factory that produces highest quality US brands.
- 0~1" Outside Micrometer, Resolution: .0001"
- 0~6" Vernier Caliper, Resolution: .001"/ 1/128"

Limited Supply!

4909-0002

Complete with fitted case



6PC INSPECTION TOOL KIT

22pc Indicator Point Set:

- AGD specification (4-48 threads)
- Fits most indicators

0-0.03" Dial Test Indicator:

- 0.0005" graduation,
- Complete with 2 stems (5/32" & 3/8")

0-1" Outside Micrometer:

- 0.0001" graduation
- Carbide tipped
- Ratchet stop

0~6" Dial Caliper:

- 0.001" graduation
- 4-way measurement
- Stainless steel
- Shock-proof

0-1" Dial Indicator:

- 0.001" graduation
- 2" dial face

Magnetic Base:

- Fine adjustment
- 130 lbs. power pull.

4902-0006

Complete with fitted case



Dasqua® 7PC ULTRA PRECISION MACHINIST KIT

IP67
COOLANT & FLUID
RESISTANT

SET INCLUDES:

- 176lbs. super strong power pull 275mm arm length magnetic base with fine adjustment (7121-0025)
- Big screen IP67 oil proof digital caliper, 0-150mm/0-6" range, 0.0005" resolution, inch/metric/fraction (2015-2405)
- 0-150mm/0-6" rule, graduations: 0.5, 1.0, 1/64", 1/32", 1/16" (1012-2011)
- IP65 digital outside micrometer, 0-25mm/0-1" range, 0.0005" resolution (4410-1105)
- Dial test indicator with shock proof gearing, 0-0.8mm range, 0.001" resolution (5211-1129)
- Ultra precision 1-2-3 blocks, squareness 0.0001"/1" (8407-0005)
- Depth base attachment (3001-1001)

7PC Set
2210-8250

Complete with fitted case

**A MUST FOR
EVERY MACHINIST!**



Z-Limit 2PC ELECTRONIC CALIPER & MIC KIT

- Manufactured and inspected at world class factory that produces highest quality US brands.
- 0-1" IP54 Digital Micrometer, Resolution: .00005"
- 0-6" Digital Caliper with Precision Glass Scale, Resolution: .0005"
- Absolute Measuring System
- Standard CR-2032, 3V battery included.

Z-Limit
ULTRA-SERIES

IP 54

Limited Supply!

4909-0012

Complete with fitted case

REPLACEMENT BATTERY (ITEM #4102-0032)



Dasqua® 2PC IP54 ABSOLUTE ELECTRONIC MEASURING SET



IP54
COOLANT & FLUID
RESISTANT

DIN
862

DIN
863

mm
in

Battery
+ CR2032

- Strictly made in accordance with **DIN 862/863**.
- Caliper and micrometer water resistance reach to IP54 standard.
- 0-6"/0-150mm (0.0005"/0.01mm) digital caliper with **Absolute function**.
- 0-1"/0-25mm (0.00005"/0.001mm) digital micrometer.
- Metric/Inch conversion.
- Standard CR-2032, 3V battery included.

RESOLUTION
CALIPER- 0.0005"/0.01mm
MICROMETER- 0.00005"/0.001mm

2PC SET
4209-1002

Complete with fitted case

Limited Supply!



REPLACEMENT BATTERY (ITEM #4102-0032)

MICROMETER ACCESSORIES

10PC MEASURING TOOL SETTING MASTERS

- Quick easy and extremely accurate.
- Each block comes with a certificate of calibration.
- Complete with aluminum carry case.
- **Set Includes:**
9pc Gage Blocks(Grade 0): .0625", .100", .125", .200", .250", .300", .500", 1.000", & 2.000"
1 PC Optical Flat: 1" Dia. x .5125" Thickness, .000004" Flatness, .00002" Parallel

4101-0036



THREAD TRIANGLE

- One pair gauges all 60° threads from 4-80 pitch, standard and special
- For any thread, mic the distance over the triangles, then refer to the chart to determine class of fit
- For special threads, add constant to nominal O.D. and check against mic reading to determine class of fit

Standard 60°
4901-0063
PER PAIR



For Checking All Standard 60° Threads

12PC MICRO CHECKING SET



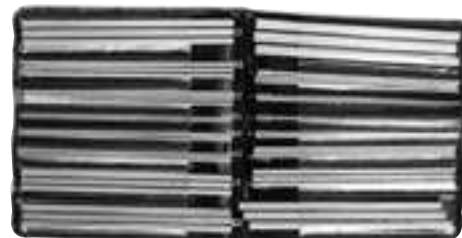
Grade AS-0= Grade 2(A1) : +4/-2 million

- For checking various spindle positions of entire micrometer range.
- Meet or exceeds U.S. Federal specification GGG-G-15C and ISO 9000 requirements.
- Gauge blocks include: .105, .210, .315, .420, .500, .605, .710, .815, .920 & 1.000".
- Optical flats for checking micrometer flatness are .500 & .5125"
- Manufacturer's calibration certificate included.
- Completed with fitted case.

Grade AS-0
4101-0032

INCH & METRIC THREAD WIRE SET

- Measures all metric threads from .5mm to 6mm.
- 48 wires; 16 different sizes.
- Measures all 60° thread
- 3 to 48 threads per inch.
- Laminated chart included.
- Complete in vinyl case.



4200-0241

10PC MICRO CHECKING SET



Grade AS-0= Grade 2(A1) : +4/-2 million

- Meet or exceeds U.S. Federal specification GGG-G-15C and ISO 9000 requirements.
- Gauge blocks include: .0625, .100, .125, .200, .250, .300, .500, 1.000 & 2.000".
- Optical flats for checking micrometer flatness.
- Manufacturer's calibration certificate included.
- Completed with fitted case.

Grade AS-0
4101-0031

Pro-Series INCH & METRIC THREAD WIRE SET

- Measures all 60° threads
- 48 pieces -16 different sizes
- Measures all threads from 3 to 48 threads per inch and all metric from 0.5mm to 6mm pitch.
- 3 wire methods of measuring external threads.
- Wires are fitted in a plastic case stamped with sizes.
- Chart compiled from the U.S. Standard Handbook H.28, and gives proper sizes & measurements over wires.
- Comes with 4 wire holders, each holder has 2 pair of holes, each pair of holes for different size of wire and make pitch diameter measuring much easier.



4200-0240



MICROMETER STAND

- Fully adjustable micrometer clamp.
- Non marring.
- Lacquered cast iron base.
- Clamping capacity: 5/8".
- Flat frame style.
- Base weight: 3 lbs.

Limited Supply!

4401-0043



Dasqua® MICROMETER STAND

- Keep hands free for operating micrometer and positioning workpiece.
- Perfect for batch or mass production measurements in manufacturing and quality assurance.
- Blue enamel finish.
- Very sturdy and stable.
- Case iron.

up to 100mm/4"
7111-1105



PORTABLE MICROMETER STAND

- **Micrometer stand** is uniquely designed for easy locking and carrying around.
- Stand can be folded to dimension: 4.6" x 3.2" x 1.5"
- Lacquered cast iron stand weighing 2 lbs.

4401-0044



MICROMETER SOLD SEPARATELY

7PC ANVIL ATTACHMENT KIT FOR OUTSIDE MICROMETERS

- Turns your micrometer into 7 different tools.
- Set contains: ball, spline, knife, super spline, blade, comparator.
- Fits all brands of outside micrometers.
- Attachments other than ball are .500" long. This mount must be subtracted from the total reading.
- Hardened and ground.



BALL ATTACHMENT

- Used for measuring parts with rounded surfaces
- Ball attachment is applied by snapping onto end of either anvil or spindle.
- Anvil Diameter: .250"
- Includes: 1Ball, 1Sleeve



METAL CASES - FOR OUTSIDE MICROMETER SETS

- Well made aluminium case.
- Durable foam inserts for better protection.
- Fits most outside micrometer sets on the market.



0-6" Micrometer Case
4200-0166CASE

0-12" Micrometer Case
4200-0163CASE

OUTSIDE MICROMETERS

Dasqua® OUTSIDE MICROMETERS



4112-5110 Shown



- Strictly made in accordance with DIN 863.
- With ratchet stop for constant pressure.
- Spindle thread hardened, ground and lapped for ultimate accuracy.
- Clear graduations laser-etched on satin chrome finish for easy reading.
- With spindle lock.
- Carbide measuring surfaces ground for longer service life.
- Standards included above 0-1" micrometer.
- Fitted case.

.001" GRADUATION

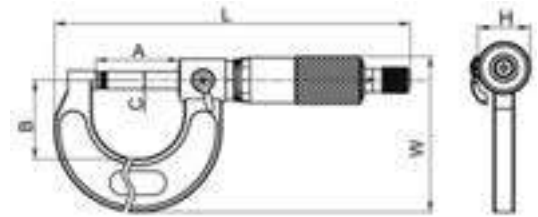
Item#	Inch	(mm)						Accuracy
		A	B	C	L	W	H	
4112-5105	0-1"	31	29.5	Ø6.5	133	58.5	18	0.0015"
4112-5110	1-2"	56	38	Ø6.5	137.2	76	18	0.0015"
4112-5115	2-3"	81	51	Ø6.5	162.7	91	18	0.002"
4112-5120	3-4"	106	63.5	Ø6.5	210.5	105	18	0.002"



Included

.0001" GRADUATION

Item#	Inch	(mm)						Accuracy
		A	B	C	L	W	H	
4112-0105	0-1"	31	29.5	Ø6.5	133	58.5	18	0.00015"
4112-0110	1-2"	56	38	Ø6.5	137.2	76	18	0.00015"
4112-0115	2-3"	81	51	Ø6.5	162.7	91	18	0.0002"
4112-0120	3-4"	106	63.5	Ø6.5	187.7	105	18	0.0002"
4112-0125	4-5"	131	76	Ø6.5	214.5	125	18	0.00025"
4112-0130	5-6"	156	89	Ø6.5	251	142	18	0.00025"



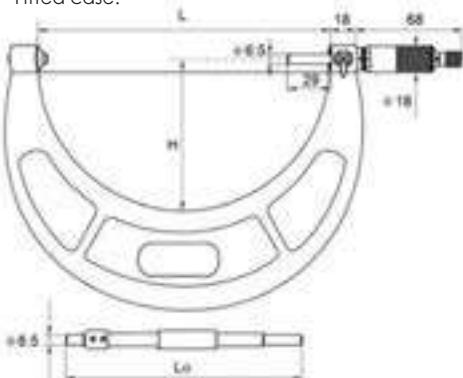
Dasqua® LARGE OUTSIDE MICROMETERS

DIN 863

- Strictly made in accordance with DIN 863.
- With ratchet stop for constant pressure.
- Spindle thread hardened, ground and lapped for ultimate accuracy.
- Clear graduations laser-etched on satin chrome finish for easy reading.
- With spindle lock.
- Bigger size for larger range.
- Carbide measuring surfaces ground for longer service life.
- Zero setting standard bar
- Tapered designed frame for easier use in narrow slots and tight locations.
- Rigid steel frame is ribbed for extra strength.
- Fitted case.



4112-1150 Shown



.0001" GRADUATION

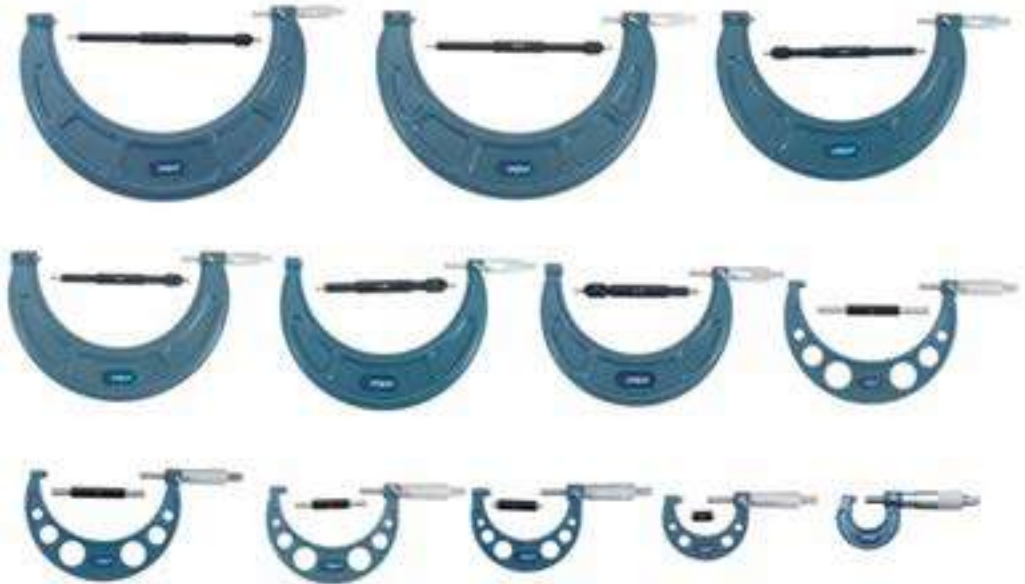
Item#	Range	(mm)			Accuracy
		L	H	Lo	
4112-1135	6-7"	185	99	150	0.00027"
4112-1140	7-8"	210	111.5	175	0.00027"
4112-1145	8-9"	238	127	200	0.0003"
4112-1150	9-10"	264	140	225	0.0003"
4112-1155	10-11"	289	152.5	250	0.00035"
4112-1160	11-12"	315	165.5	275	0.00035"

Dasqua® OUTSIDE MICROMETER SETS

DIN
863

- Strictly made in accordance with **DIN 863**.
- With ratchet stop for constant pressure.
- Spindle thread hardened, ground and lapped for ultimate accuracy.
- Clear graduations laser-etched on satin chrome finish for easy reading.
- With spindle lock.
- Standards are included above 0-1" micrometer.

Plastic Case



Aluminium case



.001" GRADUATION

Item#	Set/pcs	Range	Package
4112-0206	3	0-3"	Plastic Case

.0001" GRADUATION

Item#	Set/pcs	Range	Package
4112-0006	3	0-3"	Plastic Case
4112-0010	4	0-4"	Plastic Case
4112-0215	6	0-6"	Aluminium Case
4112-0203	12	0-12"	Aluminium Case

SOLID METAL FRAME OUTSIDE MICROMETERS & SETS

- Solid Mitutoyo style metal C-shape frame for all sizes.
- Graduation: 0.0001"
- Hardened and precision ground anvil spindle thread with microlap finish on ends.
- Positive locking clamp with ratchet stop.
- Carbide tipped faces.
- Meets or exceeds federal specifications.
- Supplied with fitted case.



0~12" Set
Consists of 0~6 & 6~12" SET
4200-0163

.0001" GRADUATION

Item#	Range
4200-0150	0-1"
4200-0152	1-2"
4200-0153	2-3"
4200-0154	3-4"
4200-0155	4-5"
4200-0156	5-6"
4200-0157	6-7"
4200-0158	7-8"
4200-0159	8-9"
4200-0160	9-10"
4200-0161	10-11"
4200-0162	11-12"



STANDARDS INCLUDED

0~3" Set
4200-0165

0~6" Set
4200-0166

0~4" Set
4200-0164

6~12" Set
4200-0167

Limited Supply!

OUTSIDE MICROMETERS

PRECISION OUTSIDE MICROMETERS & SETS

- Hardened and precision ground anvil spindle thread with microlap finish on ends.
- Meets or exceeds federal specifications.
- Micro fine graduations.
- Spindle lock.
- Graduation: 0.0001".
- Carbide faces.
- Ratchet stop.
- Fitted case.
- Standards included.



0~3" Set
4200-0010

.0001" GRADUATION

Item#	Range
4200-0001	0 - 1"
4200-0002	1 - 2"
4200-0003	2 - 3"
4200-0010	0 - 3" (3pc/set)
4200-0011	0 - 6" (6pc/set)

Dasqua® METRIC OUTSIDE MICROMETER

- Strictly made in accordance with **DIN 863**.
- With ratchet stop for constant pressure.
- Spindle thread hardened, ground and lapped for ultimate accuracy.
- Clear graduations laser-etched on satin chrome finish for easy reading.
- With spindle lock.
- Made with thermal protection frame.



DIN 863

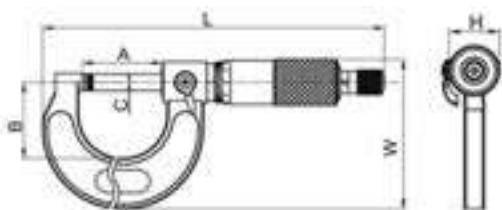
Item#	Range	Graduation	Package
4111-6405	0-25mm	0.01mm	Plastic Box

Dasqua® METRIC OUTSIDE MICROMETERS & SET

DIN 863

- Strictly made in accordance with **DIN 863**.
- With ratchet stop for constant pressure.
- Spindle thread hardened, ground and lapped for ultimate accuracy.
- Clear graduations laser-etched on satin chrome finish for easy reading.
- With spindle lock.
- Carbide measuring surfaces ground for longer service life.
- Standards included above 0-1" micrometer.
- Fitted case.

3PC Set
0~75mm Range
4111-8206



.01MM GRADUATION

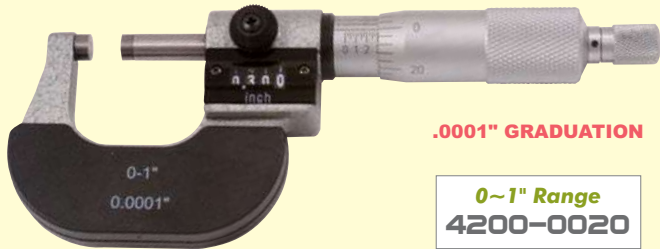
Item#	Range	(mm)						Accuracy
		A	B	C	L	W	H	
4111-8105	0-25mm	31	29.5	Ø6.5	133	58.5	18	0.004"
4111-8110	25-50mm	56	38	Ø6.5	137.2	76	18	0.004"
4111-8115	51-75mm	81	51	Ø6.5	162.7	91	18	0.004"



Included

DIGITAL READOUT OUTSIDE MICROMETER

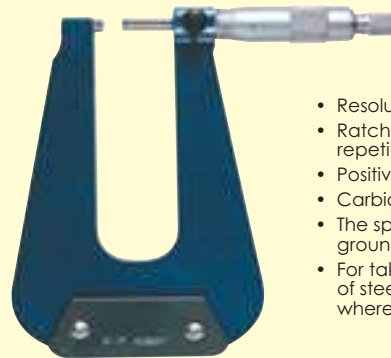
- Anvil and spindle hardened and precision ground with microlap finish.
- Carbide tipped measuring faces.
- Ratchet stop.
- Meets or exceeds U.S. Federal specifications.
- Supplied with fitted case.



.0001" GRADUATION

**0~1" Range
4200-0020**

DEEP THROAT MICROMETER



.0001" GRADUATION

- Resolution: 0.0001".
- Ratchet stop thimble for exact and repetitive readings.
- Positive locking clamp.
- Carbide tipped measuring faces.
- The spindle thread is hardened, ground and lapped.
- For taking accurate measurements of steel and plastic sheets and plates wherever there is a deep depth.

Item#	Range	Throat Depth	Accuracy
4200-0208	0-1"	6"	.0001"

INTERCHANGEABLE ANVIL MICROMETERS

- Long range outside micrometers.
- Pipe combined steel frame provides lightness plus extreme rigidity for perfect balance.
- Micro fine graduations.
- Carbide tipped measuring faces.
- Ratchet stop.
- Fitted case.
- Standards included.

**12~16" Range
4200-0171**

.001" GRADUATION



Item#	Range	Accuracy
4200-0171	12-16"	.001"
4200-0172	16-20"	.001"
4200-0173	20-24"	.001"
4200-0174	24-28"	.001"
4200-0175	28-32"	.001"

Dasqua® MICROMETER HEADS

- Used for improving accuracy in machines, gaging, test equipment, electronics, optical instruments and machine instruments.
- Satin chrome finished-no glare and resists rust.
- Quick reading on thimble.
- Flat face spindle with high precision.
- Ratchet thimble and threads are hardened ground and lapped for consistent repeatability and accuracy.
- Quick and easy adjustment.
- Carbide measuring surfaces ground for longer service life.

**0~1" Range
4812-5115**

.001" GRADUATION

Item#	Range	Accuracy
4812-5105	0-0.25"	0.0015"
4812-5110	0-0.5"	0.0015"
4812-5115	0-1"	0.0015"
4812-5120	0-2"	0.0015"



SPECIALTY MICROMETERS

Dasqua® BALL SPHERICAL FACE MICROMETERS

DIN 863

- For measuring wall thickness of various curved parts & tubes, including bearings, sleeves, collars, rings, cylinders and from a hole to an edge.
- Strictly made in accordance with DIN 863.
- Accuracy: 0.0001"/0.004mm.
- Spindle thread hardened, ground and lapped for ultimate accuracy.
- Barrel and thimble satin chrome finish.
- Carbide measuring face.
- Clear graduations on satin chrome finish for easy reading.
- Quick and easy zero adjustment on sleeve.
- Positive lever locking clamp and ratchet stop.
- Ideal for measuring convex curves directly without having to subtract the diameter of the ball.
- Supplied with fitted case.

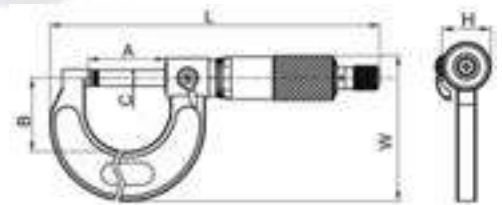


4510-2305 Shown



4510-2310 Shown

.0001" GRADUATION



Item#	Range	(mm)						Accuracy
		A	B	C	L	W	H	
4510-2305	0-1"	31	29.5	Ø6.5	133	58.5	18	0.00015"
4510-2310	1-2"	56	38	Ø6.5	137.2	76	18	0.00015"

PRECISION MEASURING TOOLS

SCREW THREAD MICROMETER KITS

- Direct reading of pitch diameter in threads with interchangeable anvil and spindle pairs.
- Anvils and spindles made of tool steel, hardened and ground.
- Micro fine slant line graduations.
- Ratchet stop.
- With fitted case.



.001" GRADUATION



Anvil in Pairs	Pitch TPI
#1	64~48
#2	44~28
#3	24~14
#4	13~9
#5	8~5
#6	4.5~3.5
#7	28~20
#8	18~12
#9	11~7
#10	6~4.5

Item#	Range	Anvils
4200-0226	0-1"	#1-5
4200-0227	1-2"	#2-6
4200-0228	2-3"	#7-10

ELECTRONIC SCREW THREAD MICROMETER KIT

- Non-rotation spindle
- 60° V-shaped and knife-edged anvils
- With cable for RS232 output.
- Ratchet stop.
- With fitted case.
- Direct RS232 output.



INCH/METRIC .00005" GRADUATION

Anvil in Pairs	Pitch	
	TPI	MM
#1	64~48	.4~.5
#2	44~28	.6~.9
#3	24~14	1.0~1.75
#4	13~9	2~3
#5	8~5	3.5~5.0

REPLACEMENT BATTERY (ITEM #4102-0030)

Item#	Range	Anvils
4200-0361	0-1"	#1-5

Dasqua® VERNIER SPLINE MICROMETERS

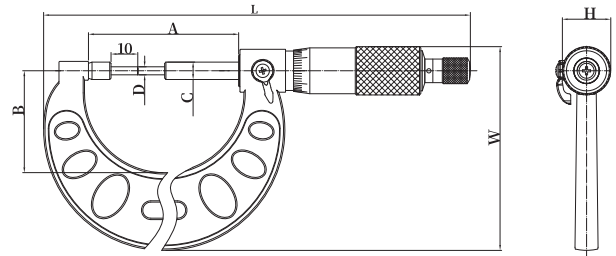
DIN
863

- For measuring spline shafts, slots and keyways.
- Strictly made in accordance with DIN863.
- Graduation: 0.0001".
- Spindle thread hardened, ground and lapped for ultimate accuracy.
- Barrel and thimble have satin chrome finish.
- Carbide measuring face.
- Clear graduations on satin chrome finish for easy reading.

- Quick and easy zero adjustment on sleeve.
- Positive lever locking clamp and ratchet stop for exact readings.
- The anvil & shaft have a small diameter for measuring splined shafts, slots, and keyways.
- Supplied with standards bar except 0-1" model.
- Non-rotating spindle.
- Supplied with fitted case.



.0001" GRADUATION



Item#	Range	Resolution	(mm)						Accuracy
			A	B	C	L	W	H	
4710-2305	0-1"	0.0001"	56	38	Ø6.5	137.2	76	18	0.004mm/0.00015"
4710-2310	1-2"	0.0001"	55.3	31	Ø6.5	162.7	91	18	0.004mm/0.00015"
4710-2315	2-3"	0.0001"	80.8	44	Ø6.5	187.7	105	18	0.004mm/0.0002"

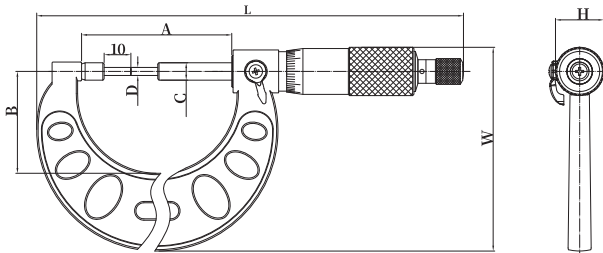
Dasqua® POINTED SPINDLE & ANVIL MICROMETERS

DIN
863



- For measuring the web thickness of drills, small grooves, and other hard to reach dimensions.
- Strictly made in accordance with DIN 863.
- Spindle thread hardened, ground and lapped for ultimate accuracy.
- Barrel and thimble have satin chrome finish.
- Carbide measuring face.
- Clear graduations on satin chrome finish for easy reading.
- Quick and easy zero adjustment on sleeve.
- Positive lever locking clamp and ratchet stop.
- Size 1-2" and 2-3" furnished with standards for micrometer reading verification.
- Supplied with fitted case.

.0001" GRADUATION



Item#	Range	(mm)						Accuracy
		A	B	C	L	W	H	
4610-2305	0-1"	56	38	Ø6.5	137.2	76	18	0.00015"
4610-2310	1-2"	81	51	Ø6.5	162.7	91	18	0.00015"
4610-2315	2-3"	106	63.5	Ø6.5	187.7	105	18	0.0002"

SPECIALTY MICROMETERS

INDICATING MICROMETERS

- Carbide tipped measuring faces.
- Jeweled bearings.
- Retracting button.
- Tolerance hands.
- Easy zero adjustment.
- With fitted case.
- Standard included.



.00005" GRADUATION



* Limited Supply

**0~1" Range
4200-0205**

**1~2" Range
4200-0206***

PRECISION BLADE MICROMETER

- Graduation: .0001".
- For taking measurements of workpieces which have narrow grooves or "T" slots when standard micrometer can't reach.
- Microfine graduations on satin chrome finish for easy reading.
- Anvil & spindle hardened & precision ground.

- Blade penetration=0.315".
- Blade thickness=0.03".
- Blade width=0.256".
- Non-rotating spindle.



**.0001" GRADUATION
.0016" ACCURACY**

Limited Supply!

**0~1" Range
4200-0251**



PRECISION MEASURING TOOLS

Dasqua® DIGITAL ELECTRONIC IP65 WATER PROOF BLADE MICROMETERS

- Absolute function.
- For measuring narrow grooves and hard-to-reach areas.
- Quick measuring function. Lever activated opens & closes on fixed thimble in under one second.
- Large, easy-to-read digital display.
- Class A in electrostatic discharge.
- Carbide-tipped anvils.
- Measuring spindle hardened and ground.
- IP65 protection against coolants, dirt, chips and grit.
- Standard included above 0-1".
- Accuracy: 0.00015"
- True Inch/Metric conversion.
- Non-rotating spindle.
- Furnished in fitted case.

CABLE 01	DIN 863	IP65 COOLANT FLUID RESISTANT	BLUETOOTH TRANSMITTER	WIRELESS TRANSMITTER
Data output	Absolute	Battery + CR2032	mm / inch	

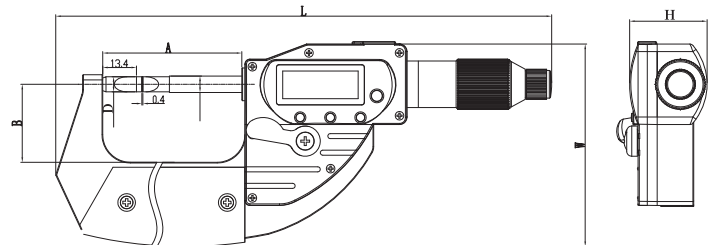


Incredibly Accurate & Easy to Use

INCH/METRIC .00005" GRADUATION



Quick-Move



Item#	Range	Resolution	(mm)						Accuracy
			A	B	C	L	W	H	
4220-2103	0-1"/0-25mm	0.00005"/0.001mm	29.8	25.4	Ø6.5	168.6	64.6	30.8	0.00015"/0.003mm
4220-2106	1-2"/25-50mm	0.00005"/0.001mm	55.3	31	Ø6.5	197.2	80.5	30.8	0.00015"/0.003mm
4220-2109	2-3"/50-75mm	0.00005"/0.001mm	80.3	44	Ø6.5	227.5	96	30.8	0.00015"/0.004mm

Dasqua® IP65 SPLASH PROOF DIGITAL ELECTRONIC OUTSIDE MICROMETERS



• Strictly made in accordance with DIN863 and with calibration certificate



• Clear easy to read graduation lines Laser inscription and engraving



• Carbide measuring surface (Hardness $\geq 89\text{HRA}$) guarantees longer working life and higher wear resistance



• Precision ratchet thimble cap maintains uniform measuring pressure to reduce errors



• IP65 protection, ensuring precision performance in harsh environments



• Large easy-to-read LED screen

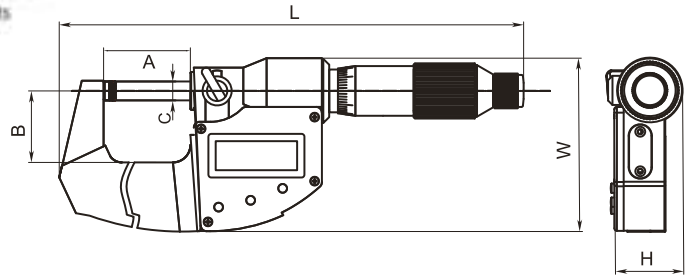


- A-class static protection.
- Display absolute position at startup.
- Insulating grips are employed on the frame to reduce heat transfer.

**INCH/METRIC
.0005" GRADUATION**



**0-1"/0-25mm
4410-1105**



Item#	Range	Resolution	(mm)						Accuracy
			A	B	C	L	W	H	
4410-1105	0-1"/0-25mm	0.00005"/0.001mm	29.8	24.5	Ø6.5	159.5	59.6	23.5	0.00015"/0.003mm
4410-1110	1-2"/25-50mm	0.00005"/0.001mm	55.3	31	Ø6.5	188.5	75.7	23.5	0.00015"/0.003mm
4410-1115	2-3"/50-75mm	0.00005"/0.001mm	80.8	44	Ø6.5	219	90.7	23.5	0.00015"/0.004mm
4410-1120	3-4"/75-100mm	0.00005"/0.001mm	105.8	56	Ø6.5	246.5	107.2	23.5	0.00015"/0.004mm
4410-1125	4-5"/100-125mm	0.00005"/0.001mm	130.8	68	Ø6.5	278	125.3	23.5	0.0002"/0.005mm
4410-1130	5-6"/125-150mm	0.00005"/0.001mm	155.8	81	Ø6.5	307.5	141.3	23.5	0.0002"/0.005mm

Dasqua® MICROMETER STAND

- Keep hands free for operating micrometer and positioning workpiece.
- Perfect for batch or mass production measurements in manufacturing and quality assurance.
- Blue enamel finish.
- Very sturdy and stable.
- Case iron.

**up to 100mm/4"
7111-1105**

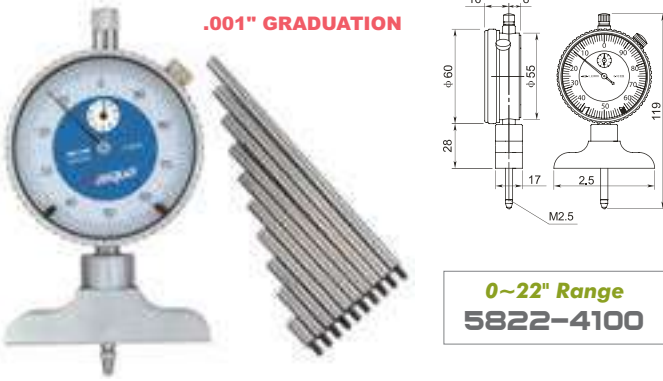
Perfect for Batch or Mass Production



SPECIALTY MICROMETERS

Dasqua® 0-22" DIAL DEPTH GAGE KIT

- Used to measure depth of holes or parts with grooved or elevated surfaces.
- Dial Indicator for easy and clear reading.
- Hardened base with fine lapped contact surface.
- Extension rods of different lengths offering larger measuring ranges.



0-22" Range
5822-4100

0-22" DIAL DEPTH GAGE KIT



- Provides rapid, direct reading measurements of depths.
- 6 rod extensions can be connected together for a full 0-22" capacity.
- Supplied with fitted case.
- 2" diameter dial face.
- 2-1/2" base

.001" ACCURACY

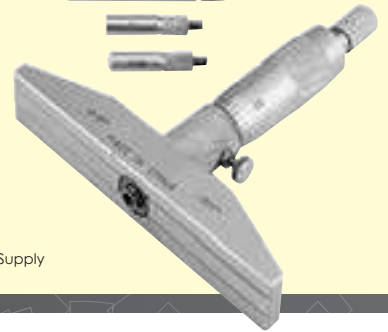
0-22" Range
4500-0004

PRECISION DEPTH MICROMETER SETS

- Interchangeable rods are fitted to the micrometer spindle against a positive stop and locked.
- Base surface hardened & lapped.
- Ratchet stop for consistent and repetitive measurements.
- Satin chrome non-glare.
- Complete with fitted case and spanner wrench.

Item#	Range	Base size	No. of Rods	Accuracy
4500-0001*	0-4"	2.5"	4	0.001"
4500-0011	0-4"	4"	4	0.001"
4500-0002	0-6"	4"	6	0.001"

* Limited Supply



Dasqua® DEPTH MICROMETERS

- For measuring depth of holes, parts with grooves or elevated surfaces.
- Satin chrome finish.
- Ratchet thimble and threads are hardened, ground and lapped for consistent repeatability and accuracy.
- Positive locking clamp.
- Clear and easy-to-read graduations.
- With fitted case.

.0016" ACCURACY

Item#	Range	Graduation	No. of Anvils	(mm) Length
4612-5105	0-1"	0.001"	1	63
4612-5110	0-2"	0.001"	2	102
4612-5115	0-3"	0.001"	3	102
4612-5120	0-4"	0.001"	4	102
4612-5125	0-6"	0.001"	6	102



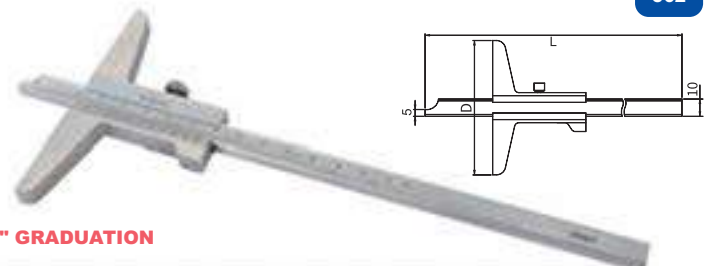
Dasqua® MONOBLOCK DEPTH VERNIER GAGES

- Hardened ground jaws with precision lapped measuring face.
- Satin chrome finish, hardened stainless steel throughout for long life.
- Distinct lines and figures etched against satin chrome finish.
- Strictly made in accordance with DIN 862.

DIN 862

Item#	Range	(mm)		Accuracy
		L	D	
3001-2901	0-6"	250	100	±0.03
3001-2903	0-8"	300	100	±0.03
3001-2905	0-12"	400	100	±0.04

.0001" GRADUATION



DIGITAL ELECTRONIC DEPTH MICROMETER KIT

- High accuracy Interchangeable rods
- High contrast LCD display
- Spherical end for easy straight measurement
- 4" base
- Friction thimble
- Standard SR44(1.55V) battery included
- With fitted case



0~6"/0~150mm
4500-0406

INCH/METRIC .0005" GRADUATION

REPLACEMENT BATTERY (ITEM #4102-0030)

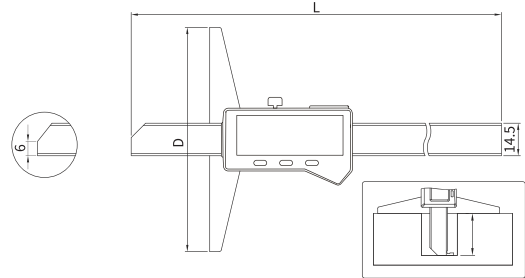
Data
output

Dasqua® DIGITAL ELECTRONIC DEPTH CALIPERS



**INCH/METRIC
.0005" GRADUATION**

- Used to measure step and depth.
- Made of solid stainless steel, widened and thickened.
- Strictly made in accordance with DIN 862.
- Hardened, ground and lapped measuring surfaces for longer service life.
- Large, easy to read display.
- Standard CR-2032 (3V) battery included.
- Fitted case.



REPLACEMENT BATTERY (ITEM #4102-0032)

Item#	Range	Resolution	(mm)		Accuracy
			D	L	
9021-2005	0-6"/0-150mm	.0005"/.01mm	100	230	±0.03mm
2001-2010	0-8"/0-200mm	.0005"/.01mm	100	280	±0.03mm
2001-2015	0-12"/0-300mm	.0005"/.01mm	100	380	±0.04mm

Dasqua® DIGITAL ELECTRONIC THICKNESS GAGE

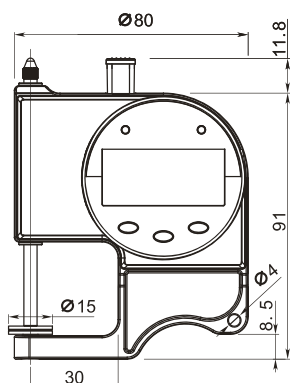
- Spring load movement with a push button.
- Large LCD display for easy and clear readings.
- Thickness measurement of different materials.
- Data hold function, data output.
- Standard CR-2032 (3V) battery included.
- Fitted case.



Data
output

**INCH/METRIC/FRACTION
.0005" GRADUATION**

0~1"/0~25mm
2140-8110



Cable 3 (ITEM #2220-9999)

Range	Resolution	Accuracy
0-25mm/0-1"	0.01mm / 0.0005" / 1/128"	0.05mm/0.002"

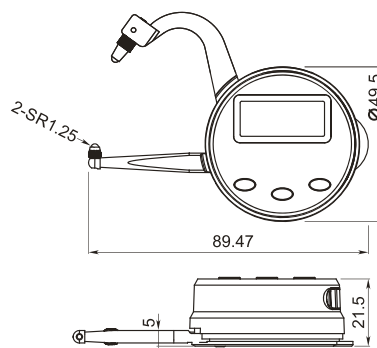
Dasqua® DIGITAL ELECTRONIC THICKNESS GAGE

- Large LCD display for easy and clear readings.
- Spring loaded travel.
- The compact size and lightweight ensure it is very convenient and handy, and easy to operate.
- Data hold function.
- Class A for electrostatic discharge.
- Standard CR-2032 (3V) battery included.
- Fitted case.



**INCH/METRIC/FRACTION
.0005" GRADUATION**

0~1"/0~25mm
2140-8105



Range	Resolution	Accuracy
0-25mm/0-1"	0.01mm / 0.0005" / 1/64"	0.05mm/0.002"

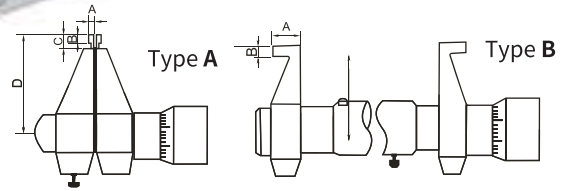
SPECIALTY MICROMETERS

Dasqua® INSIDE MICROMETERS

- Used to measure various inside dimensions.
- With ratchet stop for constant pressure.
- Spindle thread hardened, ground and lapped for ultimate accuracy.
- Clear graduations laser-etched on satin chrome finish for easy reading.
- With spindle lock.
- Carbide measuring surfaces ground for longer service life.



.001" GRADUATION



Item#	Range	Graduation	Accuracy	Calibration ring	Type	(mm)			
						A	B	C	D
4912-5105	0.2-1.2"	0.001"	±0.00025"	Yes	A	2.3	4.5	5.5	27.5
4912-5110	1-2"	0.001"	±0.0003"	Yes	B	12.3	4.5	/	27.5
4912-5115	2-3"	0.001"	±0.00035"	No	B	12.3	4.5	/	27.5
4912-5120	3-4"	0.001"	±0.0004"	No	B	12.3	4.5	/	27.5

Dasqua® TUBULAR INSIDE MICROMETERS



- Wide range by combining extensions rods and anvils with micrometer head
- Clear graduation laser etched on satin chrome finish for easy reading.
- Strictly made in accordance with DIN863.
- Satin chrome finish.
- Supplied with a standard gauge for zero setting.
- Micrometer heads vary from 50mm to 63mm. Each micrometer head is with an extension rod depending on the customers' desired measuring range.
- Measuring rods hardened, ground and lapped.
- Fitted case.

.001" GRADUATION



Item#	Range	Graduation	Extension Rod	Accuracy
4312-5103	2-5.5"	0.001"	Micrometer Head	0.0002"
4312-5106	2-4"	0.001"	0.5", 1"	0.00025"
4312-5109	2-12"	0.001"	1/2", 1" 2", 2", 4"	0.00045"
4312-5112	2-20"	0.001"	0.5", 1" 2"(2pcs), 4", 8"	0.00065"

INSIDE MICROMETER SETS

- The combining of extension rods provides a wide measuring range
- Carbide measuring faces
- Positive lock clamp
- Supplied with a standard caliper gage for zero setting
- With Fitted Case



4200-0333 Shown

.001" GRADUATION

Item#	Range
4200-0332	4 - 20"
4200-0333	4 - 36"



4200-0332 Shown

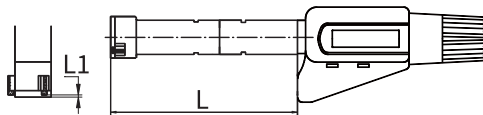
Dasqua® IP54 WATER PROOF ELECTRONIC INTERNAL 3 POINT HOLE MIKE SETS

IP54
COOLANT & FLUID
RESISTANT

- Strictly made in accordance with DIN 863.
- Hold function.
- Direct reading from clear large easy-to-read Digital display.
- Self-centering micrometer hardened head; from 12mm with carbide measuring jaws for accurate & true measurement of internal diameters.
- Extension available for deep measuring.
- Setting rings included in all sets for adjustment.
- Ratchet stops providing correct contact pressure for accurate reading.
- Contact points are designed for measurements near the bottom of blind holes.
- Resolution: .00005"/.001mm
- Includes instant inch/millimeter conversion.
- Furnished in fitted case.



**INCH/METRIC
.0005" GRADUATION**



Item#	Range	Resolution	No. of Setting Ring	Extension Rod Length	(mm)		Accuracy
					L	L1	
4511-6205	0.275-0.5"/6-12mm	0.00005"/0.001mm	2pc-8,10mm	100mm	1.5	54.5	0.004mm
4511-6210	0.5-0.8"/12-20mm	0.00005"/0.001mm	1pc-16mm	150mm	0.5	80	0.004mm
4511-6215	0.8-2"/20-50mm	0.00005"/0.001mm	2pc-25,40mm	150mm	0.5	90.97	0.004mm
4511-6220	2-4"/50-100mm	0.00005"/0.001mm	2pc-62,87mm	150mm	0.5	114	0.005mm

INTERNAL GAGING

18PC PRECISION ANGLE GAGE SET

- Stainless steel and satin chrome finished.
- Each gage has eight gauging surfaces.
- Quick inspection of angles and I.D. or O.D. chamfers-in or out of the machine.
- Each gage checks primary, 1/2 primary and complementary angles.
- Supplied with pouch.



Item#	Primary Angle
4901-0045	5°~ 90° by 5°

PRECISION RADIUS GAGE SETS

- Five different gauging surfaces on each gage for both convex and concave radius.
- Made of satin finish stainless steel-rust and stain resistant.
- With handy gage holders.



Item#	Set	Range
4901-0040	25pc	1/64"-17/64" x 64ths and 9/32"-1/2" x 32nds
4901-0026	26pc	0.010-0.500"
4901-0044	10pc	0.55-1.00" by 0.05"
4901-0047	26pc	0.5-13mm by 0.5mm

8PC RADIUS GAGE SETS

- Each gage has five measuring surface for checking radius, convex and concave radii easily
- Satin chrome finish and each gage size is marked



Item#	Range
4901-0041	9/16~1" by 16ths
4901-0042	1-1/16~1-1/2" by 16ths

35PC GAGE SET



4400-1035

INCLUDES:

- **TELESCOPING GAGE SET** 6 PC 5/16-6" Range #4200-0255
- **SMALL HOLE GAGE SET** 4 PC .125-.500" Range #4400-0009
- **RADIUS GAGE SET** 25 PC 1/61-1/2" Range #4901-0040

CENTER GAGES

- Graduated in 14ths and 20ths on one side and 24ths and 32nds on the other
- Micro-fine graduations
- Accuracy meets Federal Specifications.



Whitworth or English Standard 55°
4901-0061

Standard 60°
4901-0060

HiP PRO-SERIES
Standard 60°
4901-0059

CONCAVE & CONVEX RADIUS GAGES



Item#	Radius Range	Concave Blade	Convex Blade
4901-0102	17/64 -1/2" x 1/32	16	16
4901-0103	17/32 -1" x 1/32	16	16

SATIN FINISH, STAINLESS STEEL - RUST, AND STAIN RESISTANT



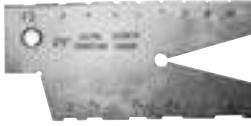
Dasqua® RADIUS GAGE

- For testing of raised and recessed curves.
- Fine cutted forms.
- Both concave and convex shaped blades become a pair.
- Radius size is marked on each gage.
- With a locking clamp.

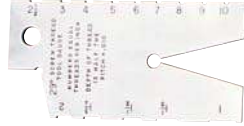
Item#	Range	Step	Leaves Convex(Pcs)	Leaves Concave(Pcs)
1352-1005	1/32"-1/4"	1/64"	15	15

29° ACME SCREW THREAD GAGES

- Standard for grinding and setting tools when cutting Acme threads.
- Angle & edges are hardened and precision ground.
- Threads: 1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 4, 5, 6, 7, 8, 9 & 10.

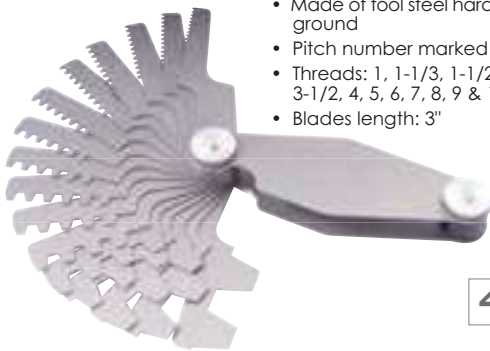


4901-0031



* Limited Supply

29° ACME SCREW THREAD PITCH GAGE-15 BLADES



- Made of tool steel hardened and precision ground
- Pitch number marked on each blade
- Threads: 1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 7, 8, 9 & 10
- Blades length: 3"

4901-0033

THREAD DETECTIVE/IDENTIFIER - Inch & Metric

- Nut and bolt thread identifier. Each size has a nut and bolt checker on the same gauge.
- Inch nut and bolt sizes include #6-32, #8-32, #10-32, #10-24, 1/4-28, 1/4-20, 5/16-24, 5/16-18, 3/8-24, 3/8-16, 7/16-20, 7/16-14, 1/2-20 & 1/2-13
- Metric Nut and bolt sizes include M4x0.7, M5x0.8, M6x1.0, M7x1.0, M8x1.0, M8x1.25, M10x1.0, M10x1.25, M10x1.50, M12x1.25, M12x1.50 & M12x1.75
- Thread sizes are etched on each gauge
- The individual gauges rotate freely on the wire cable for fast thread verification
- Wire cable with loop for convenient hanging



4901-0035



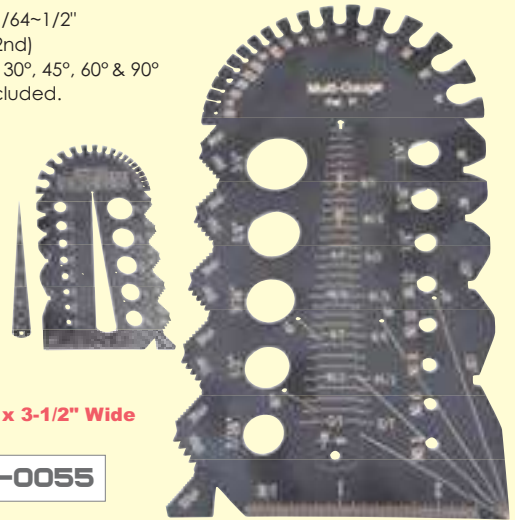
7-IN-1 MULTI-PURPOSE GAUGE

- Made of tool steel with black coating
- Laser engraved markings.
- 7-IN-1 Combine: Wire Gauge, Drill Sizes, Drill Point Gauge, Screw Pitch Gauge, Bore Gauge, Ruler & Protractor
- Tap/Drill recommendation chart included.
- Wire Gauge: 0.024~0.25"
- Drill Sizes: #5, 6, 8, 10, 12, 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8" & 3/4"
- Drill Points: 60°, 90°, 118° & 135°
- Screw Pitch Gauge: 40th, 32nd, 24th, 20th, 18th, 16th, 14th, 13th, 12nd, 11th & 10th TPI
- Bore Gauge: 1/64~1/2"
- Ruler: 2-1/2" (32nd)
- Protractor: 15°, 30°, 45°, 60° & 90°
- Vinyl pouch included.

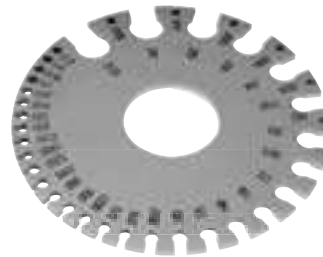


6-5/8" Long x 3-1/2" Wide

4901-0055



36-0 WIRE MEASURING GAGES



- For measuring wire diameter and non-ferrous sheets such as copper, brass, aluminum, etc.
- Measures gauge no. from 36 to 0 (.003 ~.3125).
- Made of hardened steel and satin chrome finish.
- Marks of wire size on front, decimal equivalents on reverse side
- Complete in vinyl pouch.

* Limited Supply

4901-0048



WIRE MEASURING GAUGE - Rectangular Shape

- For measuring wire diameter and non-ferrous sheets such as copper, brass, aluminum, etc.
- Measures gauge no. from 36 to 0 (.003 ~.3125).
- Made of stainless steel.
- Etched marks of wire size and decimal equivalents on front side.
- Complete in vinyl pouch.



4906-0050

THREAD GAGING

THREAD PLUG GAGES & RING GAGES

- Gages are made in "X" tolerance
- Classes 2A and 2B for Inch, classes 6H and 6G for MM most commonly used for general applications including bolts, nuts, screws and similar fasteners



Metric Size	Plug Gages GO-NOGO with Handle Class 6H Item#	Ring Gages GO-NOGO Class 6G Item#
M2 x 0.4	4101-1102	4101-1202
M3 x 0.5	4101-1103	4101-1203
M2.5 x 0.45	4101-1125	4101-1225
M3.5 x 0.6	4101-1135	4101-1235
M4 x 0.7	4101-1104	4101-1204
M5 x 0.8	4101-1105	4101-1205
M6 x 1.0	4101-1106	4101-1206
M7 x 1.0	4101-1107	4101-1207
M8 x 1.25	4101-1108	4101-1208
M10 x 1.25	4101-1110	4101-1210
M10 x 1.50	4101-1111	4101-1211
M12 x 1.75	4101-1112	4101-1212
M14 x 2.0	4101-1114	4101-1214
M16 x 2.0	4101-1116	4101-1216
M18 x 2.50	4101-1118	4101-1218
M20 x 2.50	4101-1120	4101-1220
M22 x 2.50	4101-1122	4101-1222
M24 x 3.0	4101-1124	4101-1224

PRICED & SOLD BY SET

Inch Size	Plug Gages GO-NOGO with Handle Class 2B Item#	Ring Gages GO-NOGO Class 2A Item#
4-40UNC	4101-0208	4101-0308
5-40UNC	-----	4101-0310
6-32UNC	4101-0212	4101-0312
8-32UNC	4101-0214	4101-0314
10-24UNC	4101-0216	4101-0316
10-32UNF	4101-0217	4101-0317
1/4-20UNC	4101-0221	4101-0321
1/4-28UNF	4101-0222	4101-0322
5/16-18UNC	4101-0224	4101-0324
5/16-24UNF	4101-0225	4101-0325
3/8-16UNC	4101-0227	4101-0327
3/8-24UNF	4101-0228	4101-0328
7/16-14UNC	4101-0230	4101-0330
7/16-20UNF	4101-0231	4101-0331
1/2-13UNC	4101-0233	4101-0333
1/2-20UNF	4101-0234	4101-0334

7PC THREAD PLUG GAGE SETS

- Gages are made in "X" tolerance
- Class 2B for Inch, Class 6H MM set.
- Fitted ABS case included.



7PC Inch Set 4101-0260

Includes: 8-32, 10-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14 & 1/2-13

7PC Metric Set 4101-1171

Includes: M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, M10x1.5 & M12x1.75

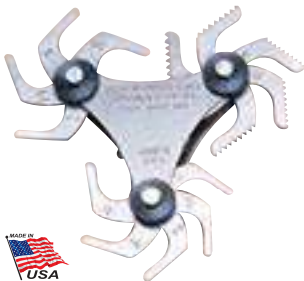
SCREW PITCH GAGES

- Correct pitch is determined by matching blade teeth with threaders.
- Each blade clearly marked with proper thread size.
- Blades protected in sturdy steel case.
- Plastic pouch.
- Combination of 31 American National 60° and 24 Metric 60° thread leaves.



Item#	Thread Range	No. of Leaves	No. of Groups
4901-0030	4~42 TPI 60° & .25~6mm 60°	55	2

SCREW PITCH GAGES



- Narrow designed blades permit use for internal and external screw threads.
- Correct pitch is determined by matching blade teeth with threads.
- Locking device at each end secures all blades for storage, or positions an individual blade for use.
- Each blade clearly marked with proper thread size
- Blades protected in sturdy steel case.

Item#	Thread Range	No. of Blades	No. of Groups
4901-0094	4~84 TPI 60°	51	3
4901-0095	4~56 TPI & .50~6.00mm	28	2
4901-0096	0.25~2.50mm	28	2
4901-0097	0.50~7.00mm	18	2

SCREW PITCH GAGES

- Correct pitch is determined by matching blade teeth with threaders.
- Each blade clearly marked with proper thread size.
- Blades protected in sturdy steel case.
- Narrow designed blade permits use for internal and external screw threads.



Item#	Thread Range	No. of Leaves	No. of Groups
4901-0028	.25~2.5mm 60°	28	2
4901-0029	0.5~7.0mm 60°	17	2
4901-0037	4~84 TPI 60°	51	2
4901-0038	4~62 TPI 55° & .25~6mm 60°	52	2
4901-0030	4~42 TPI 55° & .25~6mm 60°	55	2

Pro-Series 6PC TELESCOPING GAGE SET

- Double action (self centering) for quick checking of inside measurements.
- Smooth movement.
- Satin chrome finish.
- Constant spring tension for uniform feel.
- Contact point ends are hardened tool steel and precision ground on a radius of the smallest hole the gage will enter.
- Includes shop-hardened case.



**6PC Set
5/16~6" Range
4209-0255**

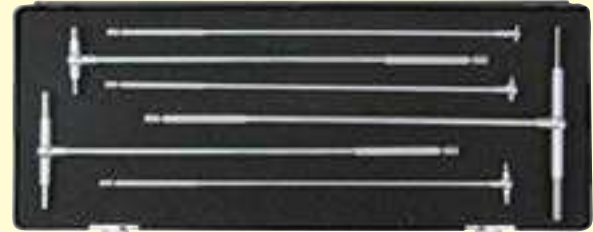
Standard 6pc Set

(Inch) Set Range	OAL
5/16~1/2	4.20
1/2~3/4	4.40
3/4~1-1/4	4.40
1-1/4~2-1/8	5.85
2-1/8~3-1/2	5.85
3-1/2~6.0	5.85



Pro-Series 6PC LONG-REACH TELESCOPING GAGE SET

- Double action (self centering) for quick checking of inside measurements.
- Smooth movement, rigid handle with self-centering feature.
- Satin chrome finish.
- Constant spring tension for uniform feel.
- Contact point ends are hardened tool steel and precision ground on a radius of the smallest hole the gage will enter.
- Includes a fitted case.



Long-Reach 6pc Set

(Inch) Set Range	OAL
5/16~1/2	12"/300mm
1/2~3/4	12"/300mm
3/4~1-1/4	12"/300mm
1-1/4~2-1/8	12"/300mm
2-1/8~3-1/2	12"/300mm
3-1/2~6.0	12"/300mm

**12" LONG REACH SET
6PC Set, 5/16~6" Range
4209-0266**

Dasqua® 12 PC TELESCOPING GAUGE COMBO SET

- Durable action (self-centering) for quick checking of inside measurements.
- Great tool for easy and accurate measurements of the true sizes of holes and slots.
- Satin chrome finish.
- Rigid handle with self-centering feature.
- Constant spring tension for uniform feel & smooth operation.
- Contact plunger automatically self-centering at all times and in all positions.
- Contact point ends are hardened tool steel and precision ground on a radius of the smallest hole the gage will enter.
- Includes fitted case.



**Standard Set
(Up To 5.85") Shown**



Long-Reach 6pc Set

(Inch) Set Range	OAL
5/16~1/2	12"/300mm
1/2~3/4	12"/300mm
3/4~1-1/4	12"/300mm
1-1/4~2-1/8	12"/300mm
2-1/8~3-1/2	12"/300mm
3-1/2~6.0	12"/300mm

**Long Reach Set
(Up To 12") Shown**

**COMBO SET
FOR EASY ACCESS
TO MEASUREMENTS!**

**12PC Combo Set
5911-9999**

Standard 6pc Set

(Inch) Set Range	OAL
5/16~1/2	4.20
1/2~3/4	4.40
3/4~1-1/4	4.40
1-1/4~2-1/8	5.85
2-1/8~3-1/2	5.85
3-1/2~6.0	5.85



Includes

Item#	Set	Range	Depth
5911-0001	6PC Long Reach Set	5/16-1/2", 1/2-3/4", 3/4-1-1/4", 1-1/4-2-1/8", 2-1/8-3-1/2", 3-1/2-6"	up to 12"
5911-0002	6PC Standard reach set	5/16-1/2", 1/2-3/4", 3/4-1-1/4", 1-1/4-2-1/8", 2-1/8-3-1/2", 3-1/2-6"	up to 5.85"

INTERNAL GAGING

TELESCOPING GAGE & SETS



4200-0255 Shown

- Double action (self centering) for quick checking of inside measurements.
- Satin chrome finish.
- Vinyl pouch included.
- Constant spring tension for uniform feel.
- Contact point ends are hardened tool steel and precision ground on a radius of the smallest hole the gage will enter.

STANDARD SET
6PC Set, 5/16~6" Range
4200-0255

Long Reach Set

Set Range

10" Long Reach

5/16~1/2"

1/2~3/4"

3/4~1-1/4"

12" Long Reach

1-1/4~2-1/8"

2-1/8~3-1/2"

3-1/2~6.0"

10" LONG REACH SET
3PC Set, 5/16~1-1/4" Range
4200-0260*

* Limited Supply

12" LONG REACH SET
3PC Set, 1-1/4~6" Range
4200-0262*

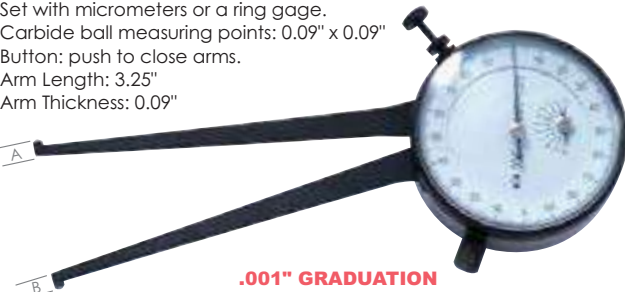
Standard Length Set

(Inch)

Set Range	OAL
5/16~1/2	4.20
1/2~3/4	4.40
3/4~1-1/4	4.40
1-1/4~2-1/8	5.85
2-1/8~3-1/2	5.85
3-1/2~6.0	5.85

INTERNAL DIAL CALIPER GAGE

- 0~1" movement to check recessed diameters, internal bores, etc.
- Bezel can be rotated for zero setting and can be locked with screw.
- Set with micrometers or a ring gage.
- Carbide ball measuring points: 0.09" x 0.09"
- Button: push to close arms.
- Arm Length: 3.25"
- Arm Thickness: 0.09"



.001" GRADUATION

Item#	Range	Graduation	A	B
4400-0801	0.375" ~1.375"	0.001"	5/32"	5/32"

4PC SMALL HOLE GAGE SET - Full Ball

- Easy to adjust with full spherical, hardened, satin-chrome plated measuring faces.
- Set furnished in plastic pouch.

.125~.500" RANGE

Full Ball
4400-0009



Pro-Series SPRING DIVIDERS



- Easy adjustment over entire range.
- Balanced legs, uniform tension.
- Polished natural steel finish.

Size	Item#
4"	4901-0065
6"	4901-0066
8"	4901-0067
10"	4901-0068
12"	4901-0069

Pro-Series INSIDE CALIPERS

- Easy adjustment over entire range.
- Balanced legs, uniform tension.
- Polished natural steel finish.

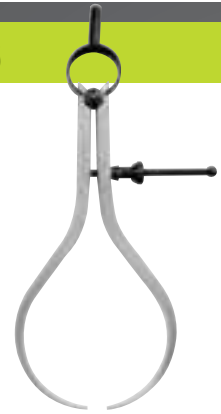
Size	Item#
6"	4901-0070
8"	4901-0071
12"	4901-0072



Pro-Series OUTSIDE CALIPERS

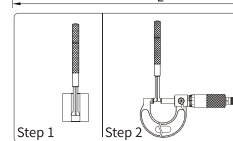
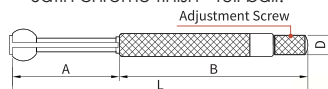
- Easy adjustment over entire range.
- Balanced legs, uniform tension.
- Polished natural steel finish.

Size	Item#
6"	4901-0073
8"	4901-0074
12"	4901-0075



Dasqua® SMALL HOLE GAUGE SET

- Measuring range: 3-5mm, 5-7.5mm, 7.5-10mm, 10-13mm.
- Used with an outside micrometer for measuring inside diameter of bores.
- Gaging surface is fully hardened to ensure long tool life.
- Extra long for gaging deep and shallow holes, slots, and similar workpieces.
- Satin chrome finish - full ball.



NEW

Item#	Each Measuring Range	(mm)			
		L	A	B	D
5921-0005	3-5mm / .125"-.200"	76	22	53	Ø5
	5-7.5mm / .200"-.300"	78	24	53	Ø5
	7.5-10mm / .300"-.400"	88	28	59	Ø6
	10-13mm / .400"-.500"	92	32	59	Ø6

.0005" GRADUATION DIAL BORE GAGE SETS

- For close tolerance measurements of holes, taper and roundness.
- Gages are supplied with AGD Group II dial indicator.
- Easy setting with micrometers or ring gages.
- Fitted case with anvils index.
- Self centering.

.0005" GRADUATION DIAL INDICATOR



2~6" Range
4400-0007

0~0.25" Range
.0005" Graduation
Replacement Indicator
4400-1252

Item#	Range	Probe Depth	No. of Anvils
4400-0061	0.24 - 0.4"	2"	9
4400-0062	0.4 - 0.7"	4"	11
4400-0063	0.7 - 1.5"	6"	9
4400-0064	1.4 - 2.4"	6"	6
4400-0007	2.0 - 6.0"	6"	11
4400-1406	1.4 - 6.0"	6"	17

0~6" BORE GAGE SETTING MASTER

- Bore Gage Setting Master Kit is used for accurately setting any bore gage up to 6" inch.
- Each Set includes:
 - 1- Setting Device
 - Base anvil: 2.750" x .80"
 - Adjustable anvil 2.375" x .375" (two each)
 - Baseanvil: 2.750"
 - Internal capacity: 6"
 - Depth capacity: 1"
 - Centralizer capacity width: 2.625"
 - Quick-release holder for fast adjustment
 - 1- Economy Gage Block Set
 - 36 piece
 - Tolerances to .00005"
 - Certificate of Calibration to N.I.S.T.
 - High quality wooden case



4400-0070



Operating Instructions



Dasqua® .0005" GRADUATION DIAL BORE GAGE SETS

- Self centering.
- Carbide anvils.
- Easy-to-read.
- Insulated cover.
- Chrome plated handle.
- Includes extension holder and fitted case.

.0005" GRADUATION

The Biggest Measuring Range Set In Industry!
Two Popular Bore Gauge Ranges Combined In One Set!

1.4~6" Range
5510-0000



5512-6130 Shown

Item#	Measuring Range	Depth Up to
5512-6105	0.24-0.4"	1.55"
5512-6110	0.4-0.7"	4"
5512-6115	0.7-1.5"	6"
5512-6120	1.4-2.4"	6"
5512-6125	2-4"	6"
5512-6130	2-6"	6"
5510-0000	1.4-6"	6"



INTERNAL GAGING

PRECISION STEEL PIN GAGE SETS -Inch

- Supplied in a plastic, sturdy, dust-proof fitted case.
- Sizes marked on case for easy identification.
- Fully hardened to 60-62 RC.
- Finish to 10 Micron or better.
- Class ZZ
- OAL: 2" .



**Minus Set
.061~.250" Range
4101-0011**

Size	SET	Item#
MINUS SETS (-) -0.0002" + 0.0000"		
0.011~0.060"	50pc	4101-0010
0.061~0.250"	190pc	4101-0011
0.251~0.500"	250pc	4101-0012
0.501~0.625"	125pc	4101-0013
0.626~0.750"	125pc	4101-0014
0.751~0.832"	82pc	4101-0015
0.833~0.916"	84pc	4101-0016
0.917~1.000"	84pc	4101-0017
PLUS SETS (+) -0.0000" + 0.0002"		
0.061~0.250"	190pc	4101-0111
0.251~0.500"	250pc	4101-0112

PRECISION PIN GAGE M1&M2 SET-Inch

- Supplied in a plastic, sturdy, dust-proof fitted case.
- Sizes marked on case for easy identification.
- Fully hardened to 60-62 RC.
- Finish to 10 Micron or better.
- Class ZZ
- OAL: 2" .

Accuracy -0.0002" + 0.00000" (Minus)



**440 PC SET
.061~.500" Range
4101-0050**

Pro-Series BLACK-OXIDE STEEL PIN GAGE SET -Large Range

- Certified set, traceable to N.I.S.T.
- Supplied in a plastic, sturdy, dust-proof fitted case.
- Sizes marked on case for easy identification.
- Black-oxide finish to 10 Micron or better.
- Hardened to 60-62 RC.
- Class ZZ
- OAL: 2" .
- 2 handles included.

**MINUS SET:
(-)0.0002" (+)0.0000"**

**Minus Set, 240PC
.0110~.250" Range
4101-0102**



Pro-Series PRECISION STEEL PIN GAGE SETS WITH CERTIFICATION -Inch

- **Certified sets.**
- Supplied in a plastic, sturdy, dust-proof fitted case.
- Sizes marked on case for easy identification.
- Fully hardened to 62-64 RC.
- Finish to 10 Micron or better.
- Class ZZ
- OAL: 2" .

Item#	SET	Size
Accuracy -0.0002" + 0.00000" (Minus)		
4101-0040	50pc	0.011~0.060"
4101-0041	190pc	0.061~0.250"
4101-0042	250pc	0.251~0.500"
4101-0043	125pc	0.501~0.625"
4101-0044	125pc	0.626~0.750"
4101-0045	82pc	0.751~0.832"
4101-0046	84pc	0.833~0.916"
4101-0047	84pc	0.917~1.000"

PIN GAGE HANDLE INCLUDED



COMBINATION PIN GAGE SETS WITH HANDLE -Inch

- Supplied in a plastic, sturdy, dust-proof fitted case.
- Sizes marked on case for easy identification.
- Fully hardened to 60-62 RC.
- Finish to 10 Micron or better.
- Class ZZ
- OAL: 2" .



MINUS SETS (-) -0.0002" + 0.0000"

Size	SET	Item#
0.011~0.1000"	90pc	4103-3001
0.101~0.200"	100pc	4103-3003
0.201~0.300"	100pc	4103-3005
0.301~0.400"	100pc	4103-3007

PIN GAGE HANDLES



Item#	For Pin Gage
4102-0001	.011 ~ .060"
4102-0002	.061 ~ .250"
4102-0003	.251 ~ .500"
4102-0006*	.751 ~ .832"
4102-0007*	.833 ~ .916"
4102-0008*	.917 ~ 1.000"

- Comfortable, ergonomically made handle for pin gages.
- Made from aluminum and powder coated.
- Can be used with GO pin (green) on one end, NO GO pin (red) on opposite end.

* Limited Supply

Pro-Series PIN GAGE HANDLE 1/32-1/2"

- For pin gage sizes: 1/32~1/2"
- Casting aluminum
- Go and No-Go clearly marked
- Large capacity.

4102-0020



PIN GAGE HANDLE 1/32-1/2"

- For pin gage sizes: 1/32~1/2"
- Casting aluminum
- Go and No-Go clearly marked
- Large capacity.



4106-0020

Pro-Series PRECISION STEEL PIN GAGE SETS WITH CERTIFICATION -Metric

- **Certified sets**
- Supplied in a plastic, sturdy, dust-proof fitted case.
- Sizes marked on case for easy identification.
- Fully hardened to 62-64 RC.
- Finish to 10 Micron or better.
- Class ZZ
- OAL: 2" .



PIN GAGE HANDLE INCLUDED

Item#	Set	Size
Accuracy - 0.005mm + 0.000mm (Minus)		
4101-1010	55pc	0.20~1.28mm
4101-1011	55pc	0.21~1.29mm
4101-1012	185pc	1.30~4.98mm
4101-1013	185pc	1.31~4.99mm
4101-1014	250pc	5.00~9.98mm
4101-1015	250pc	5.01~9.99mm
4101-1016	200pc	10.00~13.98mm
4101-1017	200pc	10.01~13.99mm

Pro-Series PLUG GAGE HANDLES

- SPI style.
- Superior finish and smooth operation.
- Holds pin gage with greatest gripping power.
- Can be used with GO pin (green) and NO GO pin (red).
- Comfortable and ergonomically designed handle for pin gages.
- No bushings required.



Item #	Pin Gage Range (inch)	
	Min.	Max.
4102-0011	0.011	0.060
4102-0012	0.061	0.250
4102-0013	0.251	0.500
4102-0014	0.501	0.625
4102-0015	0.626	0.750

PIN GAGE SET REPLACEMENT CASES

NEW

- Plastic, sturdy, dust-proof case.
- Sizes marked on case for easy identification.
- Good for minus and plus pin gage sets.
- For pin gage overall length 2" .



Pin Gages Not Included



190pc Replacement Case
.061~.250" Range
4101-0011CASE

250pc Replacement Case
.251~.500" Range
4101-0012CASE

INTERNAL GAGING

INDIVIDUAL CLASS ZZ PIN GAGES

- Replace missing, damaged, or worn-out Class ZZ gages from existing sets and libraries.
- Each pin is individually marked with size.
- Fully hardened to 60-62 RC.

- Finish to 10 Micron or better.
- Overall Length: 2"
- Tolerance: Minus .0002"



Item#	Size	Item#	Size	Item#	Size	Item#	Size	Item#	Size	Item#	Size
4103-0011	0.011	4103-0094	0.094	4103-0177	0.177	4103-0260	0.260	4103-0343	0.343	4103-0426	0.426
4103-0012	0.012	4103-0095	0.095	4103-0178	0.178	4103-0261	0.261	4103-0344	0.344	4103-0427	0.427
4103-0013	0.013	4103-0096	0.096	4103-0179	0.179	4103-0262	0.262	4103-0345	0.345	4103-0428	0.428
4103-0014	0.014	4103-0097	0.097	4103-0180	0.180	4103-0263	0.263	4103-0346	0.346	4103-0429	0.429
4103-0015	0.015	4103-0098	0.098	4103-0181	0.181	4103-0264	0.264	4103-0347	0.347	4103-0430	0.430
4103-0016	0.016	4103-0099	0.099	4103-0182	0.182	4103-0265	0.265	4103-0348	0.348	4103-0431	0.431
4103-0017	0.017	4103-0100	0.100	4103-0183	0.183	4103-0266	0.266	4103-0349	0.349	4103-0432	0.432
4103-0018	0.018	4103-0101	0.101	4103-0184	0.184	4103-0267	0.267	4103-0350	0.350	4103-0433	0.433
4103-0019	0.019	4103-0102	0.102	4103-0185	0.185	4103-0268	0.268	4103-0351	0.351	4103-0434	0.434
4103-0020	0.020	4103-0103	0.103	4103-0186	0.186	4103-0269	0.269	4103-0352	0.352	4103-0435	0.435
4103-0021	0.021	4103-0104	0.104	4103-0187	0.187	4103-0270	0.270	4103-0353	0.353	4103-0436	0.436
4103-0022	0.022	4103-0105	0.105	4103-0188	0.188	4103-0271	0.271	4103-0354	0.354	4103-0437	0.437
4103-0023	0.023	4103-0106	0.106	4103-0189	0.189	4103-0272	0.272	4103-0355	0.355	4103-0438	0.438
4103-0024	0.024	4103-0107	0.107	4103-0190	0.190	4103-0273	0.273	4103-0356	0.356	4103-0439	0.439
4103-0025	0.025	4103-0108	0.108	4103-0191	0.191	4103-0274	0.274	4103-0357	0.357	4103-0440	0.440
4103-0026	0.026	4103-0109	0.109	4103-0192	0.192	4103-0275	0.275	4103-0358	0.358	4103-0441	0.441
4103-0027	0.027	4103-0110	0.110	4103-0193	0.193	4103-0276	0.276	4103-0359	0.359	4103-0442	0.442
4103-0028	0.028	4103-0111	0.111	4103-0194	0.194	4103-0277	0.277	4103-0360	0.360	4103-0443	0.443
4103-0029	0.029	4103-0112	0.112	4103-0195	0.195	4103-0278	0.278	4103-0361	0.361	4103-0444	0.444
4103-0030	0.030	4103-0113	0.113	4103-0196	0.196	4103-0279	0.279	4103-0362	0.362	4103-0445	0.445
4103-0031	0.031	4103-0114	0.114	4103-0197	0.197	4103-0280	0.280	4103-0363	0.363	4103-0446	0.446
4103-0032	0.032	4103-0115	0.115	4103-0198	0.198	4103-0281	0.281	4103-0364	0.364	4103-0447	0.447
4103-0033	0.033	4103-0116	0.116	4103-0199	0.199	4103-0282	0.282	4103-0365	0.365	4103-0448	0.448
4103-0034	0.034	4103-0117	0.117	4103-0200	0.200	4103-0283	0.283	4103-0366	0.366	4103-0449	0.449
4103-0035	0.035	4103-0118	0.118	4103-0201	0.201	4103-0284	0.284	4103-0367	0.367	4103-0450	0.450
4103-0036	0.036	4103-0119	0.119	4103-0202	0.202	4103-0285	0.285	4103-0368	0.368	4103-0451	0.451
4103-0037	0.037	4103-0120	0.120	4103-0203	0.203	4103-0286	0.286	4103-0369	0.369	4103-0452	0.452
4103-0038	0.038	4103-0121	0.121	4103-0204	0.204	4103-0287	0.287	4103-0370	0.370	4103-0453	0.453
4103-0039	0.039	4103-0122	0.122	4103-0205	0.205	4103-0288	0.288	4103-0371	0.371	4103-0454	0.454
4103-0040	0.040	4103-0123	0.123	4103-0206	0.206	4103-0289	0.289	4103-0372	0.372	4103-0455	0.455
4103-0041	0.041	4103-0124	0.124	4103-0207	0.207	4103-0290	0.290	4103-0373	0.373	4103-0456	0.456
4103-0042	0.042	4103-0125	0.125	4103-0208	0.208	4103-0291	0.291	4103-0374	0.374	4103-0457	0.457
4103-0043	0.043	4103-0126	0.126	4103-0209	0.209	4103-0292	0.292	4103-0375	0.375	4103-0458	0.458
4103-0044	0.044	4103-0127	0.127	4103-0210	0.210	4103-0293	0.293	4103-0376	0.376	4103-0459	0.459
4103-0045	0.045	4103-0128	0.128	4103-0211	0.211	4103-0294	0.294	4103-0377	0.377	4103-0460	0.460
4103-0046	0.046	4103-0129	0.129	4103-0212	0.212	4103-0295	0.295	4103-0378	0.378	4103-0461	0.461
4103-0047	0.047	4103-0130	0.130	4103-0213	0.213	4103-0296	0.296	4103-0379	0.379	4103-0462	0.462
4103-0048	0.048	4103-0131	0.131	4103-0214	0.214	4103-0297	0.297	4103-0380	0.380	4103-0463	0.463
4103-0049	0.049	4103-0132	0.132	4103-0215	0.215	4103-0298	0.298	4103-0381	0.381	4103-0464	0.464
4103-0050	0.050	4103-0133	0.133	4103-0216	0.216	4103-0299	0.299	4103-0382	0.382	4103-0465	0.465
4103-0051	0.051	4103-0134	0.134	4103-0217	0.217	4103-0300	0.300	4103-0383	0.383	4103-0466	0.466
4103-0052	0.052	4103-0135	0.135	4103-0218	0.218	4103-0301	0.301	4103-0384	0.384	4103-0467	0.467
4103-0053	0.053	4103-0136	0.136	4103-0219	0.219	4103-0302	0.302	4103-0385	0.385	4103-0468	0.468
4103-0054	0.054	4103-0137	0.137	4103-0220	0.220	4103-0303	0.303	4103-0386	0.386	4103-0469	0.469
4103-0055	0.055	4103-0138	0.138	4103-0221	0.221	4103-0304	0.304	4103-0387	0.387	4103-0470	0.470
4103-0056	0.056	4103-0139	0.139	4103-0222	0.222	4103-0305	0.305	4103-0388	0.388	4103-0471	0.471
4103-0057	0.057	4103-0140	0.140	4103-0223	0.223	4103-0306	0.306	4103-0389	0.389	4103-0472	0.472
4103-0058	0.058	4103-0141	0.141	4103-0224	0.224	4103-0307	0.307	4103-0390	0.390	4103-0473	0.473
4103-0059	0.059	4103-0142	0.142	4103-0225	0.225	4103-0308	0.308	4103-0391	0.391	4103-0474	0.474
4103-0060	0.060	4103-0143	0.143	4103-0226	0.226	4103-0309	0.309	4103-0392	0.392	4103-0475	0.475
4103-0061	0.061	4103-0144	0.144	4103-0227	0.227	4103-0310	0.310	4103-0393	0.393	4103-0476	0.476
4103-0062	0.062	4103-0145	0.145	4103-0228	0.228	4103-0311	0.311	4103-0394	0.394	4103-0477	0.477
4103-0063	0.063	4103-0146	0.146	4103-0229	0.229	4103-0312	0.312	4103-0395	0.395	4103-0478	0.478
4103-0064	0.064	4103-0147	0.147	4103-0230	0.230	4103-0313	0.313	4103-0396	0.396	4103-0479	0.479
4103-0065	0.065	4103-0148	0.148	4103-0231	0.231	4103-0314	0.314	4103-0397	0.397	4103-0480	0.480
4103-0066	0.066	4103-0149	0.149	4103-0232	0.232	4103-0315	0.315	4103-0398	0.398	4103-0481	0.481
4103-0067	0.067	4103-0150	0.150	4103-0233	0.233	4103-0316	0.316	4103-0399	0.399	4103-0482	0.482
4103-0068	0.068	4103-0151	0.151	4103-0234	0.234	4103-0317	0.317	4103-0400	0.400	4103-0483	0.483
4103-0069	0.069	4103-0152	0.152	4103-0235	0.235	4103-0318	0.318	4103-0401	0.401	4103-0484	0.484
4103-0070	0.070	4103-0153	0.153	4103-0236	0.236	4103-0319	0.319	4103-0402	0.402	4103-0485	0.485
4103-0071	0.071	4103-0154	0.154	4103-0237	0.237	4103-0320	0.320	4103-0403	0.403	4103-0486	0.486
4103-0072	0.072	4103-0155	0.155	4103-0238	0.238	4103-0321	0.321	4103-0404	0.404	4103-0487	0.487
4103-0073	0.073	4103-0156	0.156	4103-0239	0.239	4103-0322	0.322	4103-0405	0.405	4103-0488	0.488
4103-0074	0.074	4103-0157	0.157	4103-0240	0.240	4103-0323	0.323	4103-0406	0.406	4103-0489	0.489
4103-0075	0.075	4103-0158	0.158	4103-0241	0.241	4103-0324	0.324	4103-0407	0.407	4103-0490	0.490
4103-0076	0.076	4103-0159	0.159	4103-0242	0.242	4103-0325	0.325	4103-0408	0.408	4103-0491	0.491
4103-0077	0.077	4103-0160	0.160	4103-0243	0.243	4103-0326	0.326	4103-0409	0.409	4103-0492	0.492
4103-0078	0.078	4103-0161	0.161	4103-0244	0.244	4103-0327	0.327	4103-0410	0.410	4103-0493	0.493
4103-0079	0.079	4103-0162	0.162	4103-0245	0.245	4103-0328	0.328	4103-0411	0.411	4103-0494	0.494
4103-0080	0.080	4103-0163	0.163	4103-0246	0.246	4103-0329	0.329	4103-0412	0.412	4103-0495	0.495
4103-0081	0.081	4103-0164	0.164	4103-0247	0.247	4103-0330	0.330	4103-0413	0.413	4103-0496	0.496
4103-0082	0.082	4103-0165	0.165	4103-0248	0.248	4103-0331	0.331	4103-0414	0.414	4103-0497	0.497
4103-0083	0.083	4103-0166	0.166	4103-0249	0.249	4103-0332	0.332	4103-0415	0.415	4103-0498	0.498
4103-0084	0.084	4103-0167	0.167	4103-0250	0.250	4103-0333	0.333	4103-0416	0.416	4103-0499	0.499
4103-0085	0.085	4103-0168	0.168	4103-0251	0.251	4103-0334	0.334	4103-0417	0.417	4103-0500	0.500
4103-0086	0.086	4103-0169	0.169	4103-0252	0.252	4103-0335	0.335	4103-0418	0.418	4103-0501	0.501
4103-0087	0.087	4103-0170	0.170	4103-0253	0.253	4103-0336	0.336	4103-0419	0.419	4103-0502	0.502
4103-0088	0.088	4103-0171	0.171	4103-0254	0.254	4103-0337	0.337	4103-0420	0.420	4103-0503	0.503
4103-0089	0.089	4103-0172	0.172	4103-0255	0.255	4103-0338	0.338	4103-0421	0.421	4103-0504	0.504
4103-0090	0.090	4103-0173	0.173	4103-0256	0.256	4103-0339	0.339	4103-0			



INDIVIDUAL CLASS ZZ PIN GAGES

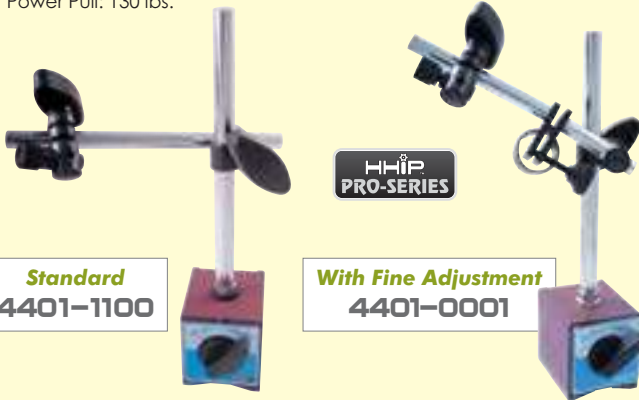
- Replace missing, damaged, or worn-out Class ZZ gages from existing sets and libraries.
- Each pin is individually marked with size.
- Fully hardened to 60-62 RC.
- Finish to 10 Micron or better.
- Overall Length: 2"
- Tolerance: Minus .0002"

Item#	Size	Item#	Size	Item#	Size	Item#	Size	Item#	Size	Item#	Size
4103-0509	0.509	4103-0592	0.592	4103-0675	0.675	4103-0758	0.758	4103-0841	0.841	4103-0924	0.924
4103-0510	0.510	4103-0593	0.593	4103-0676	0.676	4103-0759	0.759	4103-0842	0.842	4103-0925	0.925
4103-0511	0.511	4103-0594	0.594	4103-0677	0.677	4103-0760	0.760	4103-0843	0.843	4103-0926	0.926
4103-0512	0.512	4103-0595	0.595	4103-0678	0.678	4103-0761	0.761	4103-0844	0.844	4103-0927	0.927
4103-0513	0.513	4103-0596	0.596	4103-0679	0.679	4103-0762	0.762	4103-0845	0.845	4103-0928	0.928
4103-0514	0.514	4103-0597	0.597	4103-0680	0.680	4103-0763	0.763	4103-0846	0.846	4103-0929	0.929
4103-0515	0.515	4103-0598	0.598	4103-0681	0.681	4103-0764	0.764	4103-0847	0.847	4103-0930	0.930
4103-0516	0.516	4103-0599	0.599	4103-0682	0.682	4103-0765	0.765	4103-0848	0.848	4103-0931	0.931
4103-0517	0.517	4103-0600	0.600	4103-0683	0.683	4103-0766	0.766	4103-0849	0.849	4103-0932	0.932
4103-0518	0.518	4103-0601	0.601	4103-0684	0.684	4103-0767	0.767	4103-0850	0.850	4103-0933	0.933
4103-0519	0.519	4103-0602	0.602	4103-0685	0.685	4103-0768	0.768	4103-0851	0.851	4103-0934	0.934
4103-0520	0.520	4103-0603	0.603	4103-0686	0.686	4103-0769	0.769	4103-0852	0.852	4103-0935	0.935
4103-0521	0.521	4103-0604	0.604	4103-0687	0.687	4103-0770	0.770	4103-0853	0.853	4103-0936	0.936
4103-0522	0.522	4103-0605	0.605	4103-0688	0.688	4103-0771	0.771	4103-0854	0.854	4103-0937	0.937
4103-0523	0.523	4103-0606	0.606	4103-0689	0.689	4103-0772	0.772	4103-0855	0.855	4103-0938	0.938
4103-0524	0.524	4103-0607	0.607	4103-0690	0.690	4103-0773	0.773	4103-0856	0.856	4103-0939	0.939
4103-0525	0.525	4103-0608	0.608	4103-0691	0.691	4103-0774	0.774	4103-0857	0.857	4103-0940	0.940
4103-0526	0.526	4103-0609	0.609	4103-0692	0.692	4103-0775	0.775	4103-0858	0.858	4103-0941	0.941
4103-0527	0.527	4103-0610	0.610	4103-0693	0.693	4103-0776	0.776	4103-0859	0.859	4103-0942	0.942
4103-0528	0.528	4103-0611	0.611	4103-0694	0.694	4103-0777	0.777	4103-0860	0.860	4103-0943	0.943
4103-0529	0.529	4103-0612	0.612	4103-0695	0.695	4103-0778	0.778	4103-0861	0.861	4103-0944	0.944
4103-0530	0.530	4103-0613	0.613	4103-0696	0.696	4103-0779	0.779	4103-0862	0.862	4103-0945	0.945
4103-0531	0.531	4103-0614	0.614	4103-0697	0.697	4103-0780	0.780	4103-0863	0.863	4103-0946	0.946
4103-0532	0.532	4103-0615	0.615	4103-0698	0.698	4103-0781	0.781	4103-0864	0.864	4103-0947	0.947
4103-0533	0.533	4103-0616	0.616	4103-0699	0.699	4103-0782	0.782	4103-0865	0.865	4103-0948	0.948
4103-0534	0.534	4103-0617	0.617	4103-0700	0.700	4103-0783	0.783	4103-0866	0.866	4103-0949	0.949
4103-0535	0.535	4103-0618	0.618	4103-0701	0.701	4103-0784	0.784	4103-0867	0.867	4103-0950	0.950
4103-0536	0.536	4103-0619	0.619	4103-0702	0.702	4103-0785	0.785	4103-0868	0.868	4103-0951	0.951
4103-0537	0.537	4103-0620	0.620	4103-0703	0.703	4103-0786	0.786	4103-0869	0.869	4103-0952	0.952
4103-0538	0.538	4103-0621	0.621	4103-0704	0.704	4103-0787	0.787	4103-0870	0.870	4103-0953	0.953
4103-0539	0.539	4103-0622	0.622	4103-0705	0.705	4103-0788	0.788	4103-0871	0.871	4103-0954	0.954
4103-0540	0.540	4103-0623	0.623	4103-0706	0.706	4103-0789	0.789	4103-0872	0.872	4103-0955	0.955
4103-0541	0.541	4103-0624	0.624	4103-0707	0.707	4103-0790	0.790	4103-0873	0.873	4103-0956	0.956
4103-0542	0.542	4103-0625	0.625	4103-0708	0.708	4103-0791	0.791	4103-0874	0.874	4103-0957	0.957
4103-0543	0.543	4103-0626	0.626	4103-0709	0.709	4103-0792	0.792	4103-0875	0.875	4103-0958	0.958
4103-0544	0.544	4103-0627	0.627	4103-0710	0.710	4103-0793	0.793	4103-0876	0.876	4103-0959	0.959
4103-0545	0.545	4103-0628	0.628	4103-0711	0.711	4103-0794	0.794	4103-0877	0.877	4103-0960	0.960
4103-0546	0.546	4103-0629	0.629	4103-0712	0.712	4103-0795	0.795	4103-0878	0.878	4103-0961	0.961
4103-0547	0.547	4103-0630	0.630	4103-0713	0.713	4103-0796	0.796	4103-0879	0.879	4103-0962	0.962
4103-0548	0.548	4103-0631	0.631	4103-0714	0.714	4103-0797	0.797	4103-0880	0.880	4103-0963	0.963
4103-0549	0.549	4103-0632	0.632	4103-0715	0.715	4103-0798	0.798	4103-0881	0.881	4103-0964	0.964
4103-0550	0.550	4103-0633	0.633	4103-0716	0.716	4103-0799	0.799	4103-0882	0.882	4103-0965	0.965
4103-0551	0.551	4103-0634	0.634	4103-0717	0.717	4103-0800	0.800	4103-0883	0.883	4103-0966	0.966
4103-0552	0.552	4103-0635	0.635	4103-0718	0.718	4103-0801	0.801	4103-0884	0.884	4103-0967	0.967
4103-0553	0.553	4103-0636	0.636	4103-0719	0.719	4103-0802	0.802	4103-0885	0.885	4103-0968	0.968
4103-0554	0.554	4103-0637	0.637	4103-0720	0.720	4103-0803	0.803	4103-0886	0.886	4103-0969	0.969
4103-0555	0.555	4103-0638	0.638	4103-0721	0.721	4103-0804	0.804	4103-0887	0.887	4103-0970	0.970
4103-0556	0.556	4103-0639	0.639	4103-0722	0.722	4103-0805	0.805	4103-0888	0.888	4103-0971	0.971
4103-0557	0.557	4103-0640	0.640	4103-0723	0.723	4103-0806	0.806	4103-0889	0.889	4103-0972	0.972
4103-0558	0.558	4103-0641	0.641	4103-0724	0.724	4103-0807	0.807	4103-0890	0.890	4103-0973	0.973
4103-0559	0.559	4103-0642	0.642	4103-0725	0.725	4103-0808	0.808	4103-0891	0.891	4103-0974	0.974
4103-0560	0.560	4103-0643	0.643	4103-0726	0.726	4103-0809	0.809	4103-0892	0.892	4103-0975	0.975
4103-0561	0.561	4103-0644	0.644	4103-0727	0.727	4103-0810	0.810	4103-0893	0.893	4103-0976	0.976
4103-0562	0.562	4103-0645	0.645	4103-0728	0.728	4103-0811	0.811	4103-0894	0.894	4103-0977	0.977
4103-0563	0.563	4103-0646	0.646	4103-0729	0.729	4103-0812	0.812	4103-0895	0.895	4103-0978	0.978
4103-0564	0.564	4103-0647	0.647	4103-0730	0.730	4103-0813	0.813	4103-0896	0.896	4103-0979	0.979
4103-0565	0.565	4103-0648	0.648	4103-0731	0.731	4103-0814	0.814	4103-0897	0.897	4103-0980	0.980
4103-0566	0.566	4103-0649	0.649	4103-0732	0.732	4103-0815	0.815	4103-0898	0.898	4103-0981	0.981
4103-0567	0.567	4103-0650	0.650	4103-0733	0.733	4103-0816	0.816	4103-0899	0.899	4103-0982	0.982
4103-0568	0.568	4103-0651	0.651	4103-0734	0.734	4103-0817	0.817	4103-0900	0.900	4103-0983	0.983
4103-0569	0.569	4103-0652	0.652	4103-0735	0.735	4103-0818	0.818	4103-0901	0.901	4103-0984	0.984
4103-0570	0.570	4103-0653	0.653	4103-0736	0.736	4103-0819	0.819	4103-0902	0.902	4103-0985	0.985
4103-0571	0.571	4103-0654	0.654	4103-0737	0.737	4103-0820	0.820	4103-0903	0.903	4103-0986	0.986
4103-0572	0.572	4103-0655	0.655	4103-0738	0.738	4103-0821	0.821	4103-0904	0.904	4103-0987	0.987
4103-0573	0.573	4103-0656	0.656	4103-0739	0.739	4103-0822	0.822	4103-0905	0.905	4103-0988	0.988
4103-0574	0.574	4103-0657	0.657	4103-0740	0.740	4103-0823	0.823	4103-0906	0.906	4103-0989	0.989
4103-0575	0.575	4103-0658	0.658	4103-0741	0.741	4103-0824	0.824	4103-0907	0.907	4103-0990	0.990
4103-0576	0.576	4103-0659	0.659	4103-0742	0.742	4103-0825	0.825	4103-0908	0.908	4103-0991	0.991
4103-0577	0.577	4103-0660	0.660	4103-0743	0.743	4103-0826	0.826	4103-0909	0.909	4103-0992	0.992
4103-0578	0.578	4103-0661	0.661	4103-0744	0.744	4103-0827	0.827	4103-0910	0.910	4103-0993	0.993
4103-0579	0.579	4103-0662	0.662	4103-0745	0.745	4103-0828	0.828	4103-0911	0.911	4103-0994	0.994
4103-0580	0.580	4103-0663	0.663	4103-0746	0.746	4103-0829	0.829	4103-0912	0.912	4103-0995	0.995
4103-0581	0.581	4103-0664	0.664	4103-0747	0.747	4103-0830	0.830	4103-0913	0.913	4103-0996	0.996
4103-0582	0.582	4103-0665	0.665	4103-0748	0.748	4103-0831	0.831	4103-0914	0.914	4103-0997	0.997
4103-0583	0.583	4103-0666	0.666	4103-0749	0.749	4103-0832	0.832	4103-0915	0.915	4103-0998	0.998
4103-0584	0.584	4103-0667	0.667	4103-0750	0.750	4103-0833	0.833	4103-0916	0.916	4103-0999	0.999
4103-0585	0.585	4103-0668	0.668	4103-0751	0.751	4103-0834	0.834	4103-0917	0.917	4103-1000	1.000
4103-0586	0.586	4103-0669	0.669	4103-0752	0.752	4103-0835	0.835	4103-0918	0.918		
4103-0587	0.587	4103-0670	0.670	4103-0753	0.753	4103-0836	0.836	4103-0919	0.919		
4103-0588	0.588	4103-0671	0.671	4103-0754	0.754	4103-0837	0.837	4103-0920	0.920		
4103-0589	0.589	4103-0672	0.672	4103-0755</							

MAGNETIC BASES

Pro-Series MAGNETIC BASES

- Overall height: 9" .
- Off and On switch.
- Scribe-opening: 5/32" .
- Power Pull: 130 lbs.
- Base size : 2" (Width) x 2-1/2" (Depth).
- Holds most AGD dial and test indicators.
- V-shape on bottom surface for firm holding.



Standard
4401-1100

With Fine Adjustment
4401-0001

MAGNETIC BASE WITH DOVETAIL CLAMP

- Dovetail groove for clamping a test indicator
- Indicator stem hole on top 8mm diameter
- Fine adjustment
- On/Off magnet switch
- Base dimension: 2x2x2-1/4" (depth)
- Main stem: 7" long
- Branch stem: 8" long
- Magnet power pull: 130lbs

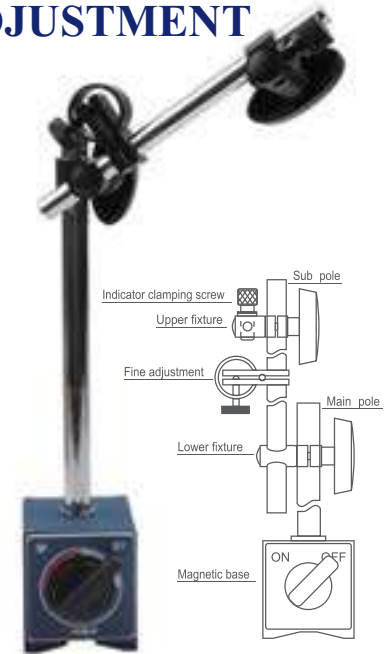


4401-0530

Dasqua® MAGNETIC BASES WITH FINE ADJUSTMENT

- Highest quality craftsmanship.
- V-grooved base for easy and secure mount on cylindrical parts.
- Chrome plated rods.
- Horizontal or vertical positioning capability.
- Blue wrinkled finish on non-working surfaces.
- Fine quality permanent magnet.
- Smooth and easy on/off switch.

4mm, 8mm, 3/8"



Item#	Holding Power	Base	Main Pole	Sub Pole	Dia. of Clamp Hole	Weight	Fine Adjustment
7122-0004	60kg	60x50x55mm	Ø12x176mm	Ø10x150mm	6.0/8.0mm	1.5kg	With Fine Adjustment
7123-1004	60kg	60x50x55mm	Ø12x176mm	Ø10x150mm	6.0/8.0mm/3/8"	1.5kg	With Fine Adjustment

SUPER POWER DIN MAGNETIC BASE

- Power Pull: 160 lbs.
- On/off switch
- Base Dimension: 2.75" (Depth) x 1.77" (Width) x 2.56" (Height)
- Main Stem: 5/8" dia. x 9"
- Extension Stem: 0.47" dia. x 8" with fine adjustment
- Hold any indicators with stem 8mm diameter.



4401-0515

Limited Supply!

DUAL CLAMPING HOLES MAGNETIC BASE-One Knob Lock

- Dual Stem Clamping Hole: 8mm & 3/8"
- Dovetail groove for testing indicator
- Base dimension: 1-1.97(W) x 2.17(H) x 2.36" (D)
- On/Off switch
- Max. Reach: 17"
- 180 lbs. magnet power.



4401-0008

Base (LxWxH)	Tapped Hole	Main Stem	Branch Stem	Weight
60x50x55	M10x1.5	Ø16x230	Ø16x210	1.9kg

MINI UNIVERSAL MAGNETIC BASES

- 3-D rigid steel arm movement.
- Unique central locking mechanism.
- Accepts all A.G.D. dial indicators and test indicators.
- Base Dimension: 1.2" (width) x 1.5" (depth).
- Holds 3/8" stem dial indicators & dovetail test indicators
- On/Off magnet power switch.
- Max. Reach: 7.5" .
- With 8mm bushing

With Fine Adjustment
4401-0811



4401-0810

3/8"

UNIVERSAL MECHANISM MAGNETIC BASE

- 3-D rigid steel arm movement.
- Unique central locking mechanism.
- Overall stem length: 11.4"
- Fine adjustment.
- On/Off switch.
- Super power pull 130 lbs.
- Base Dimension: 2" (Width) x 2-1/2" (Depth)
- Accepts all AGD dial indicators and test indicators.

4401-0511



HHIP
PRO-SERIES

3/8"

HEAVY DUTY UNIVERSAL MAGNETIC BASES

- 3-D rigid aluminum arm movement.
- Unique central locking mechanism.
- Fine adjustment.
- On/Off switch.
- Accepts all AGD dial indicators and test indicators.



3/8"

Item#	Power Pull (Lbs.)	Base (L x W x H)	Max. Reach (Inch)
4401-0536	132	58x50x55mm	13.0
4401-0537	176	60x50x55mm	14.5
4401-0538	220	74x50x55mm	16.0

MINI INDICATOR MAG. BASE-One Knob Lock

- Base dimension: 1-1/8 (W) x 1-3/8 (H) x 1-3/8" (D)
- Max. Reach: 10"
- On/Off switch
- Hold stems: 8mm & 3/8"
- With dovetail clamp

Limited Supply!

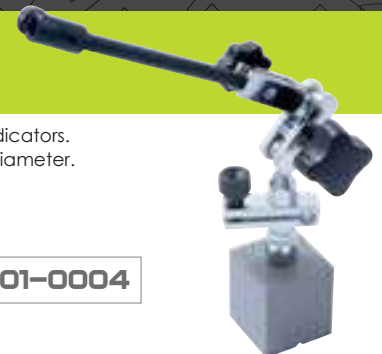


4401-0005

MAGNETIC INDICATOR HOLDER

- Holds most of dial and test indicators.
- Stem holds: 3/8" ,5/16" , 1/4" diameter.
- 80 lbs magnetic pull.
- Overall height: 5"
- Fine adjustment.

4401-0004



EASY RELEASE MAGNETIC BASE



Limited Supply!

- Single universal rod, has 3 diameters to allow mounting popular indicators without changing rods
- Full 360° swivel
- Strong magnetic pull with easy release switch

4401-0802

UNIVERSAL MAGNETIC BASE -UNIQUE TOP ADJUSTMENT

- 3-D rigid aluminum arm movement.
- Unique fine adjustment mechanism.
- On/Off switch
- Dovetail groove for test indicator



3/8"

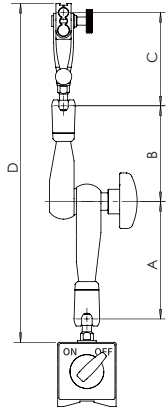


Item#	Power Pull (Lbs.)	Base (L x W x H)	Max. Reach (Inch)
4401-0532	66	36x30x35mm	6.5
4401-0533	176	60x50x55mm	10.7
4401-0534	220	74x50x55mm	13.7

MAGNETIC BASES

Dasqua® LOCK'T MAGNETIC BASE

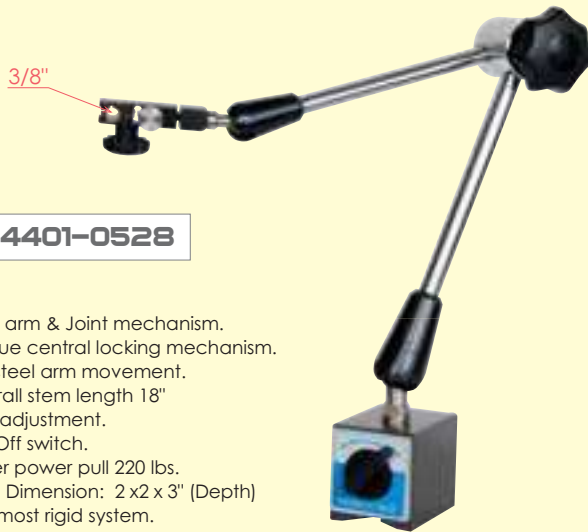
- All wear parts use hardened high grade steel and with hardness over HRC 58°.
- Inner structure is made of bearing steel, delivering more wear-resisting ability and longer service life.



- 6mm, 8mm, 3/8"**
- Three clamping holes**
Designed with three clamping holes, which are suitable for metric and inch dial indicators, plus dovetail groove for test indicators, bringing great convenience & holding capabilities.
- Ergonomic design**
Ergonomic designed tightening knob provides comfortable and firm grip. Flexible and super strong rotary parts, produce smooth adjustments in any direction of rotation.
- Super force locking mechanical universal arm**
Rare type locking mechanism, super strong arm lock and super tight locking force guarantee long life and free positioning.
- CNC Machining**
Main parts produced on CNC machines, providing extremely accurate and high precision fit. Ensuring high quality and high stability.

Item#	Power Pull	Base Dimensions	Thread Mount	(mm)			Reach Length (D)
				A	B	C	
7121-0020	50kg	40x40x40	M6x1.00	62	52	79	220
7121-0025	80kg	60x50x55	M8x1.25	100	82	81	290
7121-0030	100kg	74x50x55	M8x1.25	145	95	81	355

STRONG-LOCK UNIVERSAL MAGNETIC BASE



4401-0528

- Solid arm & Joint mechanism.
- Unique central locking mechanism.
- 3-D steel arm movement.
- Overall stem length 18"
- Fine adjustment.
- On/Off switch.
- Super power pull 220 lbs.
- Base Dimension: 2 x 2 x 3" (Depth)
- Our most rigid system.

HYDRAULIC MAGNETIC BASE

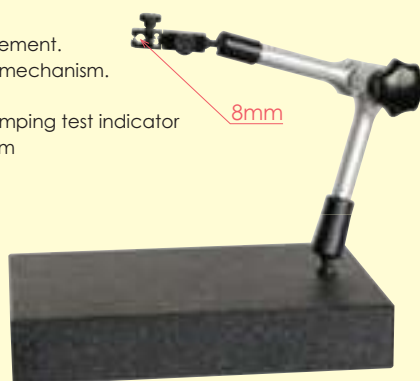
- Absolute sealed hydraulic system.
- Knob turning creates tension and high pressure on the joints to hold the rods absolutely rigid.
- Multi-nimble joint for instant fix at any desired position.
- Fine adjustment.
- Fits dovetail and 3/8" stem indicators.
- Super power pull 130 lbs.
- Overall stem length 13"
- Base Dimension: 2" (Width) x 2-1/2" (Depth)



4401-0003

GRANITE STAND W/UNIVERSAL ARM

- 12x8x2" granite plate.
- 3-D rigid steel arm movement.
- Unique central locking mechanism.
- Fine adjustment.
- Dovetail groove for clamping test indicator
- Indicator stem hole 8mm
- Overall Reach: 15"
- Weight: 24 lbs.



4401-0120

ROUND UNIVERSAL MAGNETIC BASE

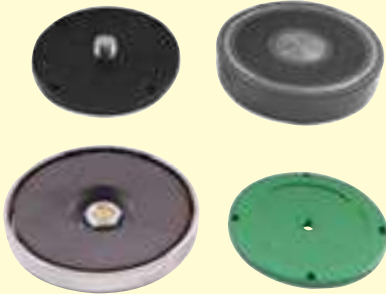
- 3-D rigid steel arm movement.
- Overall stem length 10"
- Hold 3/8" stem indicator or dovetail.
- Unique central locking mechanism.
- Fine adjustment.
- Power pull 90 lbs.
- Base Diameter: 1.6"



4401-0525

Group 2 INDICATOR MAGNETIC BACKS

- Diameter of Magnetic Back: 2-1/4" for Group II indicators.
- Magnetic back comes with screw-on indicator plain back.
- Can be used with both lug back and plain back indicators.
- Permanent magnet with strong power pull.



4401-0055



4401-0056

MITY-MAG INDICATOR HOLDER

- Zinc die cast housing.
- 45 lbs holding power.
- Hold up to 3/8" dia. stem.
- 5 Locations for mounting accessories.
- Holder Dimensions: 4-1/2" x 1" x 1-1/4".

4401-0042



Pro-Series CONTOUR MAGNETIC BASE

- Cam lock mechanism
- Unlimited versatility
- Fine Adjustment
- On/Off knob



4401-0510

CENTERED V-MAGNETS

- Grip on round or flat surfaces
- Post Mount Thread: M8x1.25
- 2 magnetic mounting surfaces-bottom and back
- On/off switch



* Post Mount Thread: M5x0.8

Item#	Dimensions	Power Pull
4401-0814*	1.4 x 1.2 x 1.5"	66 lbs.
4401-0111	2 x 2 x 2-1/2"	170 lbs.
4401-0108	2 x 2 x 4-5/8"	260 lbs.

FLEXIBLE ARM MAGNETIC BASE

- Permanent magnet with On/Off switch control.
- Cam lever operates cable. Locks it rigid at any desired position.
- Cable tension adjustable.
- Stem flexes full 360°.
- Accepts all A.G.D. dial indicators.
- Overall length: 13"
- Power Pull: 130 lbs.
- Base Dimension: 2" (Width) x 2-1/2" (Depth)

4401-0002



LOCKING PLIER SHAFT INDICATOR HOLDER

- Accept AGD group indicators
- Vise-Grip easy to hold the indicator anywhere.
- Flexible shaft made from steel
- 13" reach

Limited Supply!

4401-0520



Dasqua® DISC AND ROTOR FLEX CHROME AUTOMOTIVE SET

- Checks ball joint wear, disc rotor runout, tire and whirl runout, gear backlash, valve, guide, etc.

Includes:

- Dial Indicator: 0-1", .001" Graduation (item# 5122-4210)
- Flexible Chrome Shank Magnetic Base (item# 7611-0035)
- Fitted Case

7611-0025



INDICATOR STANDS

Dasqua® UNIVERSAL PRECISION GRANITE STANDS

- Precise ground granite base.
- Extremely rugged and universally adjustable to any position, these gage stands are well suited for inspection and layout.
- Checking and lineup operations anywhere in the shop.

- All settings are individually made without disturbing others.
- These versatile stands allow the indicator to be positioned at any height within the capacity of the upright base post.
- 360° both horizontally and vertically.
- Strictly made in accordance with DIN876.



DIN 876

Includes:
Clamps: 6mm/8mm with fine adjustment and dovetail clamp



Item#	Base Dimension	Post height	Post reach	Flatness
7812-0005	6x4"	Ø14x200mm	Ø12x165mm	0.002mm
7812-0010	10x5.5"	Ø14x200mm	Ø12x165mm	0.002mm

16" GRANITE CHECK REPLACEMENT COLUMN-Post

Optional Long Column for Holding Long Range Indicators

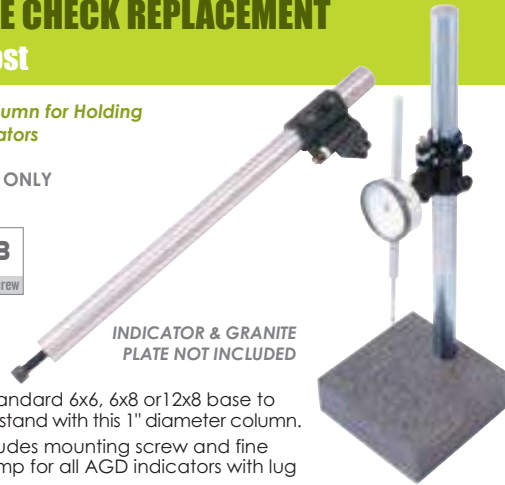
PRICE IS FOR POST ONLY

4401-0018

Includes Clamp & Mounting Screw

INDICATOR & GRANITE PLATE NOT INCLUDED

- Convert your standard 6x6, 6x8 or 12x8 base to larger capacity stand with this 1" diameter column.
- 16" column includes mounting screw and fine adjustment clamp for all AGD indicators with lug back.



GRANITE CHECK - INDICATOR STAND

- Fine adjustment.
- 10" height.
- 0.00005" granite flatness.
- Accepts all AGD Indicators with lug back.

Stand & 1" Travel Indicator Kit
4401-2001

4401-0020 & 4400-0001

Granite Stand Only

Item#	Base Size
4401-0020	6 x 6 x 2"
4401-0021	6 x 8 x 2"
4401-0019	12 x 8 x 2"

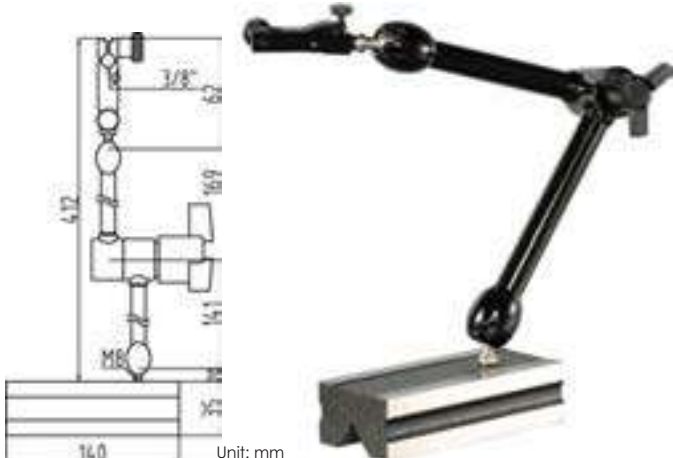


UNIVERSAL INDICATOR STAND WITH V SHAPE BASE

- Heavy base with V-shape base.
- Base is made of high grade tool steel hardened and precision ground.
- Universal mechanism arm with fine adjustment.
- Conforms to most AGD indicators.
- Weight: 6.80 lbs

NEW

4401-0125



Unit: mm

UNIVERSAL MEASURING STAND

- Heavy base allows any surface set-up.
- Base is made of high grade tool steel hardened and precision ground.
- With fine adjustment.
- Max. Extension: 14"
- Base Dimension: 8.90" Length x 2.30" Width x 1.40" Height.
- Conforms to most of AGD indicators.
- Weight: 7 lbs

4401-0413

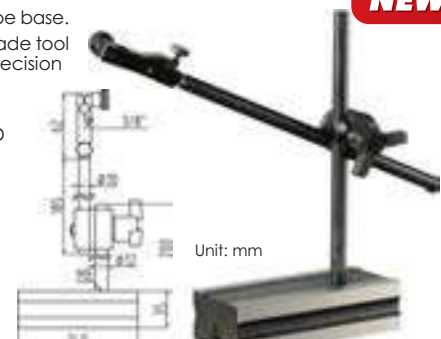


INDICATOR STAND WITH V SHAPE BASE

- Heavy base with V-shape base.
- Base is made of high grade tool steel hardened and precision ground.
- With fine adjustment.
- Conforms to most AGD indicators.
- Weight: 6 lbs

NEW

4401-0130



Unit: mm

INDICATOR & MAGNETIC BASE KITS

2PC MAGNETIC BASE & INDICATOR KIT

PRO-SERIES MAGNETIC BASES

- Overall height: 9" .
- Off and On switch.
- Scribe-opening: 5/32" .
- Power Pull: 130 lbs.
- Base size : 2" (Width) x 2-1/2" (Depth).
- Holds most of AGD dial and test indicators.

0-1" DIAL INDICATOR

- Graduation: .001"
- Stem: 3/8" diameter.
- 2" Dia. dial face.
- Lug back.

4401-0017

4401-1100 & 4400-0001



2PC MAGNETIC BASE & INDICATOR KIT

0-1" DIAL INDICATOR

- Graduation: .001"
- Lug back
- Contact point thread 4-48
- Stem: 3/8"
- Dial Face: 2"

4401-0015

Complete with fitted case

MAGNETIC BASE

- Fine adjustment,
- On/off switch,
- Power Pull: 130 lbs.
- Overall Height: 9"
- Max Reach: 16"
- Hold most of AGD group indicators
- Base: 2" (Width) x 2-1/2" (Depth)



3PC MAGNETIC BASE & INDICATOR KIT

22PC INDICATOR POINT KIT

- Fits most American and imported indicators.
- A.G.D. specifications (4-48 Threads)
- Assorted points.

0-1" DIAL INDICATOR

- Graduation: .001"
- Stem: 3/8" diameter.
- 2" Dia. dial face.
- Lug back.

MAGNETIC BASE

- Overall height: 9" .
- Off and On switch.
- Scribe-opening: 5/32" .
- Power Pull: 130 lbs.
- Base size : 2" (Width) x 2-1/2" (Depth).
- Holds most of AGD dial and test indicators.

4902-0012

Complete with fitted case



1" DIAL INDICATOR & MAGNETIC BACK KIT



4400-0025

0-1" DIAL INDICATOR

- Graduation: .001"
- Contact point interchangeable with thread 4-48.
- Rack & contact point made of hardened stainless steel.
- Stem: 3/8" diameter.
- Jeweled movement.
- 2" Dia. dial face.

MAGNETIC BACK

- Magnetic back is already mounted on indicator.
- Magnetic back comes with screw on/off back.
- Magnetic back has protective coating and is used to position indicator of most metal surfaces.
- Magnetic back diameter: 2-1/4"



MITY-MAG HOLDER & 1" TRAVEL DIAL INDICATOR KIT



0-1" DIAL INDICATOR

- Graduation: .001"
- Contact point interchangeable with thread 4-48.
- Rack & contact point made of hardened stainless steel.
- Stem: 3/8" diameter.
- Jeweled movement.
- 2" Dia. dial face.
- Lug back.

4400-0024

4400-0001 & 4401-0042

MITY-MAG HOLDER

- Zinc die cast housing.
- 45 lbs holding power.
- 5 Locations for mounting accessories.
- Hold up to 3/8" dia. stem.
- Holder Dimension: 4-1/2 x 1x1-1/4"

3PC DIAL INDICATOR, MITY-MAG HOLDER & 22PC IND. POINT KIT

22PC INDICATOR POINT KIT

- Fits most American and imported indicators.
- A.G.D. Specifications (4-48 Threads).
- Assorted points.

4400-0026

0-1" DIAL INDICATOR

- Graduation: .001"
- Contact point interchangeable with thread 4-48.
- Rack & contact point made of hardened stainless steel.
- Stem: 3/8" diameter.
- Jeweled movement.
- 2" Dia. dial face.
- Lug back.

MITY-MAG HOLDER

- Zinc die cast housing.
- 45 lbs holding power.
- 5 Locations for mounting accessories.
- Hold up to 3/8" dia. stem.
- Holder Dimension: 4-1/2 x 1x1-1/4"

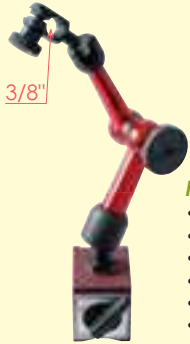


INDICATOR & MAGNETIC BASE KITS

DIAL TEST INDICATOR & MINI UNIVERSAL MAGNETIC BASE KIT

4400-0016

4400-0010 & 4401-0810



0-0.03" RANGE TEST INDICATOR

- Graduation: .0005"
- Reading: 0-15-0
- Precision pivot bearing.
- 0.098" Contact point.
- Satin chrome finish.
- Dovetail mount top, back, & front.
- Includes fitted case & 2 stems (5/32" & 3/8").
- Jeweled movements.
- Automatic reversing.

MINI UNIVERSAL MAG BASE

- 3-D rigid steel arm movement.
- Unique central locking mechanism.
- Accepts all A.G.D. dial indicators and test indicators.
- On/Off magnet power switch.
- Max. Reach: 7.5".
- Base Dimension: 1.2" (width) x 1.5" (depth).

DIAL TEST INDICATOR & MINI UNIVERSAL MAGNETIC BASE KIT

0-0.03" RANGE TEST INDICATOR

- Graduation: .0005"
- Dovetail mount top, back, & front.
- Includes fitted case & 2 stems (5/32" & 3/8").
- Precision pivot bearing.
- Reading: 0-15-0
- 0.098" Contact point.
- Satin chrome finish.
- Jeweled movements.
- Automatic reversing.

4400-0027

4400-0010 & 4401-0811



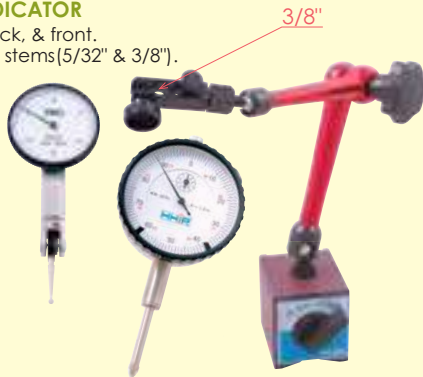
MINI UNIVERSAL MAG BASE WITH FINE ADJUSTMENT

- 3-D rigid steel arm movement.
- Unique central locking mechanism.
- Accepts all A.G.D. dial indicators and test indicators.
- On/Off magnet power switch.
- Max. Reach: 7.5".
- Base Dimension: 1.2" (width) x 1.5" (depth).

3PC TEST INDICATOR, TRAVEL INDICATOR & UNIVERSAL MAGNETIC BASE KIT

0-0.03" RANGE TEST INDICATOR

- Dovetail mount top, back, & front.
- Includes fitted case & 2 stems (5/32" & 3/8").
- Reading: 0-15-0
- Graduation: .0005"
- Precision pivot bearing.
- 0.098" Contact point.
- Satin chrome finish.
- Jeweled movements.
- Automatic reversing.



4400-0018

4400-0010, 4400-0001 & 4401-0511

0-1" DIAL INDICATOR

- Graduation: .001"
- Contact point interchangeable with thread 4-48.
- Stem: 3/8" diameter.
- Rack & contact point made of hardened stainless steel.
- Jeweled movement.
- 2" Dia. dial face.
- Lug back.

PRO-QUALITY UNIVERSAL MAGNETIC BASE

- 3-D rigid steel arm movement.
- Unique central locking mechanism.
- Fine adjustable.
- On/Off switch.
- Super power pull 130 lbs.
- Base Dimension: 2"(Width)x2-1/2"(Depth)

Interapid STYLE TEST INDICATOR & MAGNETIC INDICATOR HOLDER KIT

0-0.060" TEST INDICATOR

- Swiss type horizontal dial test indicator
- .080" tungsten carbide point
- Automatic reversal
- Jeweled movement
- Dial reading 0-15-0
- Easy-to-read tilted dial

- Dial diameter: 1-1/2"
- 210° swivel arc.
- Graduation: .0005"



4400-0023

4400-1006 & 4401-0004

INDICATOR HOLDER

- 80 lbs magnetic pull.
- Overall height: 5"
- Fine adjustment.
- Holds most dial and test indicators.
- Stem holds: 3/8, 5/16, 1/4" diameter.

Dasqua® 7PC ULTRA PRECISION MACHINIST SET

SET INCLUDES:

- 176lbs. super strong power pull 275mm arm length magnetic base with fine adjustment (7121-0025)
- Big screen IP67 oil proof digital caliper, 0-150mm/0-6" range, 0.0005" resolution, inch/metric/fraction (2015-2405)
- 0-150mm/0-6" rule, graduations: 0.5, 1.0, 1/64", 1/32", 1/16" (1012-2011)
- IP65 digital outside micrometer, 0-25mm/0-1" range, 0.0005" resolution (4410-1105)
- Dial test indicator with shock proof gearing, 0-0.8mm range, 0.001" resolution (5211-1129)
- Ultra precision 1-2-3 blocks, squareness 0.0001"/1" (8407-0005)
- Depth base attachment (3001-1001)
- Aluminum case.

7PC Set
2210-8250

Complete with fitted case

A MUST FOR EVERY MACHINIST!



IP67
COOLANT & FLUID
RESISTANT

22PC INDICATOR POINT KITS

- Fits most American and imported indicators.
- A.G.D. Specifications (4-48 Threads).
- Assorted points.



4400-0050



4400-1050

BACK PLUNGE DIAL INDICATOR

- Easy to read from top.
- Reading: 0-100
- Conforms to AGD standards.
- Dial face diameter: 1-3/8"
- Made of stainless steel.
- Rotatable bezel.



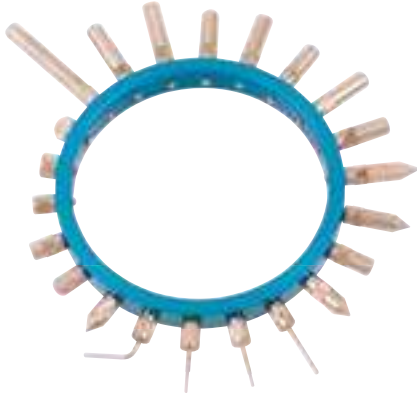
.001" GRADUATION

0~0.20" Range
4400-0015

3/8"

22PC INDICATOR CONTACT POINT RING & KIT

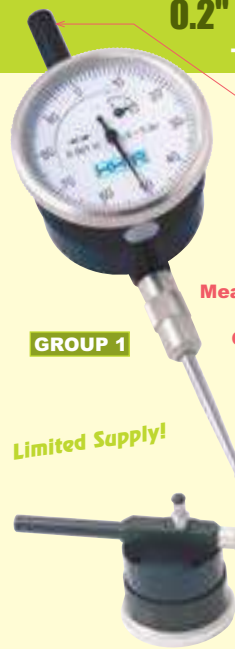
- 22 Points with 4-48 screw thread to fit AGD indicators
- All Points are mounted on a convenient aluminum ring for safe keeping and ready selection.
- Premium quality.



RING ONLY
4401-0480

22PC
POINT & RING KIT
4401-0481

0.2" SHORT RANGE DIAL INDICATOR -Designed for Making Comparative Tests



1/4"

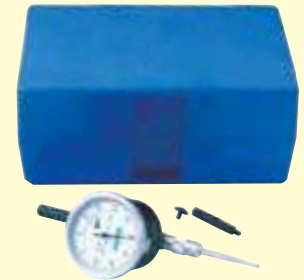
- Dial face: 1-1/2" diameter
- Contact point: .098"x1.25"
- Stem: 1/4"x1.5"
- Includes: 3 plunge contacts: 3/16x3/32", 5/16x3/32" & 3/16x1" & 3/8" bottom contact point.
- Completed with case.

Measuring Range: 0~0.2"
0~100 Reading
Graduation: 0.001"

4400-0031

GROUP 1

Limited Supply!



INDICATOR EXTENSION POINTS & KIT

- 4-48 internal and external threads
- Fits most of AGD group indicators



3PC Steel Kit
4401-0433

Includes: 1, 2 & 3"



3PC Set

Item#	Length	Material
4401-0439	1"	Stainless Steel
4401-0441	2"	Stainless Steel

INDICATOR REPLACEMENT POINT -Inch

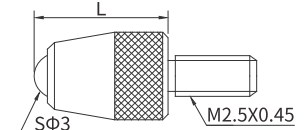
- 4-48 threaded contact point for indicators
- Replacement contact point.
- Fits indicators that have a 4-48 thread.
- Made of hardened stainless steel.



4400-3139

Dasqua® INDICATOR REPLACEMENT POINT WITH CARBIDE BALL POINT-Metric

NEW



- M2.5 thread.
- Carbide ball point.
- Fits indicators that have a M2.5x0.45 thread.
- Overall length: 7.3mm

Item#	Material	Length	S Ø D
5333-6101	Carbide	7mm	3.0mm

METRIC TO ENGLISH INDICATOR CONVERSION POINT

- Use the same standard inch AGD points with metric indicators
- Dimension: 7/32" dia., 1/2" long
- 4-48 internal threads, M2.5 x 0.45 external threads
- Steel, black oxide plated



4401-0430

USE ENGLISH POINTS ON METRIC INDICATORS

DIAL INDICATORS

0~.125 TRAVEL DIAL INDICATOR-GROUP 1



- 1-1/2" diameter dial face.
- Reading: 0-50
- Rack & contact point made of hardened stainless steel.
- Jeweled movement.
- Lug back.

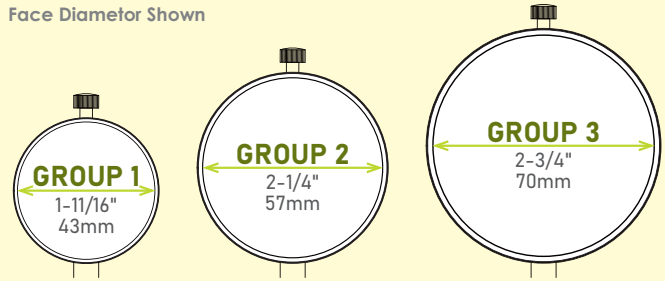
AGD GROUP 1

4400-0005

.0005" GRADUATION

DIAL INDICATOR GROUP SPECIFICATIONS

Face Diameter Shown



Z-Limit 1/4" TRAVEL DIAL INDICATOR-GROUP 1

- Manufactured and inspected at world class factory that produces highest quality European brands.
- Reading range pointers installed in the bezel.
- Complete with a fitted durable ABS case.
- Long form of Calibration Certificate included.
- 6 Jewel movement.
- Flat back.

.001" GRADUATION
0-100-0 READING

AGD GROUP 1

RANGE: 0~0.25"
4409-1105



SHOCK-PROOF



- AGD Group 1: 1-1/2" diameter face.
- Contact point interchangeable with thread 4-48
- Stem: 3/8" diameter.

0~.250 TRAVEL DIAL INDICATOR-GROUP 1

- AGD Group I.
- 1-1/2" diameter dial face.
- Reading: 0-100
- Rack & contact point made of hardened stainless steel.
- Jeweled movement.
- Lug back.

AGD GROUP 1

0~0.25" Range
4400-0003

.001" GRADUATION



Dasqua® 0-5mm MINI METRIC DIAL INDICATOR -GROUP 1

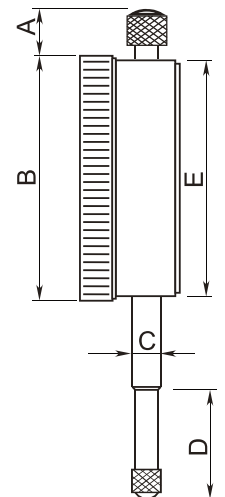


- With calibration certificate.
- Used to measure surface flatness as well as axial runout and also used to check tool set up and squareness.
- Limit indicator clips included.
- Strictly made in accordance with DIN878.
- Jeweled bearings providing the lowest possible bearing friction.
- With narrowed range and higher accuracy.
- Flat back.



AGD GROUP 1

0~0.5mm Range
5121-1102



Range	Graduation	(mm)					Accuracy	Hysteresis
		A	B	C	D	E		
0-5	0.01	6.5	Ø40	Ø8	12.5	Ø36	0.014	0.003

0-0.4" WATERPROOF DIAL INDICATOR -GROUP 2

- Robust, shockproof design
- Travel: 0-0.4"
- Readig: .001"
- Continuous reading: 0-50
- Tolerance markers
- AGD Group 2, 2-1/4" dia.
- Stem: 8mm
- Lug back and carbide contact point.



Limited Supply!

.0005 GRADUATION

RANGE: 0~0.4"
4400-1280

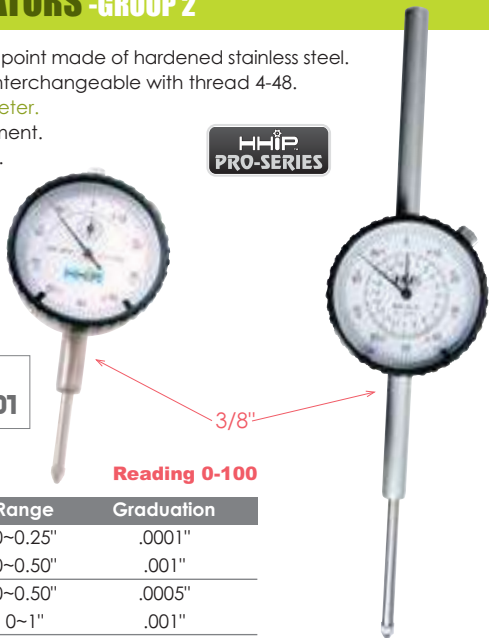
Protection Includes:

- Rubber bellows on stem
- Sealed back plate
- O-ring seal on safety cap
- O-ring protection for bezel and rotating dial

AGD GROUP 2

DIAL INDICATORS -GROUP 2

- Rack & contact point made of hardened stainless steel.
- Contact point interchangeable with thread 4-48.
- Stem: 3/8" diameter.
- Jeweled movement.
- 2" Dia. dial face.
- Lug Back



HIP PRO-SERIES

AGD GROUP 2

0~1" Range
4400-0001

Reading 0-100

Item#	Range	Graduation
4400-1250	0~0.25"	.0001"
4400-0004	0~0.50"	.001"
4400-1095	0~0.50"	.0005"
4400-0001	0~1"	.001"
4400-1100	0~1"	.0005"
4400-1000	0~1"	.0001"
4400-0012	0~1" (Flat Back)	.001"
4400-0002	0~2"	.001"

0~2" Range
4400-0002

Replacement Contact Point (4-48 thread)(Item #4400-3139)

DIAL INDICATOR BACK COVER

- For AGD group 2 indicator with 2-1/4" diameter.
- Four hole pattern.



Lug Back
4401-0057



Flat Back
4400-3140

Pro-Series COLOR FACE DIAL INDICATORS -GROUP 2

- Contact point interchangeable with thread 4-48.
- Rack & contact point made of hardened stainless steel.
- Jeweled movement.
- Stem: 3/8" diameter.
- 2" Dia. dial face.
- Graduation: 0.001"
- Reading: 0-100
- Lug back.

AGD GROUP 2



Blue Face
0~1" Range
4400-1104

Black Face
0~1" Range
4400-1102

Black Face
0~2" Range
4400-0035

Replacement Contact Point (4-48 thread)(Item #4400-3139)

1" DIAL INDICATOR WITH LIFTING LEVER -GROUP 2

- Lifting lever.
- Rack & contact point made of hardened stainless steel.
- Contact point interchangeable with thread 4-48.
- Stem: 3/8" diameter.
- Jeweled movement.
- 2" Dia. dial face.
- Lug Back

AGD GROUP 2

Reading 0-100

0~1" Range
4400-1090



3/8"

REPLACEMENT INDICATOR FOR DIAL BORE GAGE SET -GROUP 2

0.0005" GRADUATION
FIT MOST DIAL BORE GAGES



AGD GROUP 2

0~1/4" Range
4400-1252

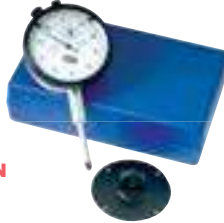
DIAL INDICATORS

Z-Limit 1" TRAVEL INDICATOR-GROUP 2



- 6 Jeweles movement.
- Bezel lock screw designed for easy adjustment.
- Contact point interchangeable with thread 4-48.
- Stem: 3/8" diameter.
- Dial Face: 2.19" diameter.
- Reading range pointers installed in the bezel.
- Long form of calibration certificate included
- Dual Back: flat back installed with an extra lug back.
- Complete with a fitted durable plastic case.

GROUP 2



**0~1" Range
4409-4001**

**.001" GRADUATION
READING 0-100-0**

Replacement Contact Point (4-48 thread) (Item #4400-3139)

Z-Limit 1" TRAVEL INDICATOR-GROUP 2

- Manufactured and inspected at world class factory that produces highest quality European brands.
- Reading range pointers installed in the bezel.
- Complete with a fitted durable ABS case.
- Long form of Calibration Certificate included.
- Contact point interchangeable with thread 4-48
- AGD Group 2.
- 6 Jewel movement.
- Shock-Proof.
- Stem: 3/8" diameter.
- Reading: 0-100-0.
- Flat back.

SHOCK-PROOF



.001" GRADUATION



GROUP 2

**0 ~ 1" Range
4409-1101**

Limited Supply!

Teclock DIAL INDICATORS-GROUP 2

- Easy-to-read graduations.
- Hard satin-chrome finish.
- Spindle rack, pinions and gear trains are superior quality, ensuring longevity.
- Conforms to AGD specifications.
- Meets or exceeds applicable federal specifications.
- Revolution counter.
- Stem: 3/8" Diameter.
- Face Diameter: 2-3/16".
- 0-100 reading.
- Lug back.

GROUP 2

.001" GRADUATION

**0~2" Range
4409-1002**



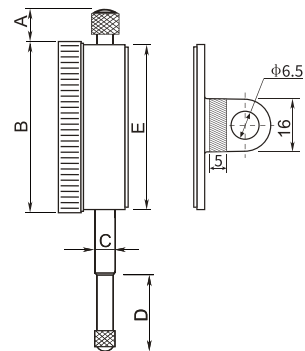
**0~1" Range
4409-1001**

Dasqua® DIAL INDICATORS-GROUP 2

- Used to measure surface flatness as well as axial runout and also used to check tool set up and squareness.
- Limit indicator clips included.
- Strictly made in accordance with DIN878.
- Jeweled bearings on 5122-4215 and 5122-4220 provide the lowest possible bearing friction.
- Casting diameter: 58mm, shank diameter: 8mm
- Satin chrome plated steel case.

GROUP 2

.001" GRADUATION



Replacement M2.5 x 0.45mm Point (Item #5260-9999)

Item#	Range	Scale divisions	Style	(mm)					Accuracy	Protection Standard
				A	B	C	D	E		
5122-4210	0-1"	0.001"	lug back	8.5	58	8	40.9	53.5	0.002"	No Jeweled Bearing
5122-4220	0-1"	0.001"	lug back	8.5	58	8	40.9	53.5	0.002"	Jeweled Bearing
5122-4214	0-2"	0.001"	lug back	79.3	58	8	57.7	53.5	0.004"	No Jeweled Bearing
5122-4215	0-2"	0.001"	lug back	79.3	58	8	57.7	53.5	0.004"	Jeweled Bearing

2" TRAVEL LARGE FACE INDICATOR -GROUP 3

- Contact point interchangeable with thread 4-48.
- Stem: 3/8" diameter.
- **Dial Face: 2.97" diameter.**
- Lug back.



GROUP 3

**.001" GRADUATION
READING 0-100-0**

**0~2" Range
4400-0036**

3/8"

Replacement Contact Point (4-48 thread)
(Item #4400-3139)

Z-Limit 10MM TRAVEL INDICATOR-GROUP 2

- Manufactured and inspected at world class factory that produces highest quality European brands.
- Contact point interchangeable with thread M2.5
- Complete with a fitted durable ABS case.
- Reading range pointers installed in the bezel.
- Long form of Calibration Certificate included.
- AGD Group 2: 60mm diameter face.
- 6 Jewel movement.
- Shock-Proof.
- Stem: 8mm diameter.
- Flat back.



SHOCK-PROOF

**.01mm GRADUATION
0-100-0 READING**

GROUP 2

Limited Supply!

**0~10MM RANGE
4409-1111**



8mm

Teclock METRIC DIAL INDICATORS-GROUP 2

- Easy-to-read graduations.
- Hard satin-chrome finish.
- Spindle rack, pinions and gear trains are superior quality, ensuring longevity.
- Conforms to AGD specifications.
- Meets or exceeds applicable federal specifications.
- Stem: 8mm
- Revolution counter.
- Lug back.

Limited Supply!

.01mm GRADUATION

8mm

GROUP 2

Item#	Range
4409-1112	0~10mm
4409-1114	0~20mm
4409-1115	0~30mm

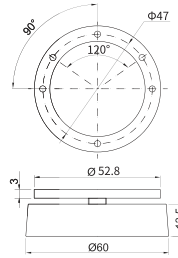


Dasqua® DIAL INDICATOR WITH MAGNETIC BACK -GROUP 2

- Indicator strictly made in accordance with DIN 878.
- Permanent powerful magnet.
- Fitting for all group 2 dial indicator.
- Magnet screws off.
- Magnetic force: 20KG.
- Fitted case.

**Magnetic Back Only
5111-1010**

5111-1010 Shown



GROUP 2

Magnetic Back with Indicator Kits

Item#	Indicator Included	Indicator Range	Graduation	Stem Dia.
5111-0001	5111-0000	0-10mm	0.01mm	8mm
5122-4211	5111-4210	0-1"	0.001"	3/8"

METRIC DIAL INDICATORS -GROUP 2

- Reading: 0-100
- Rack & contact point made of hardened stainless steel.
- Jeweled movement.
- 2" diameter dial face.
- Stem: 8mm
- Lug back.

GROUP 2

* Limited Supply

Item#	Range
4400-1110*	0~5mm
4400-1101	0~10mm
4400-0019	0~20mm



.01mm GRADUATION

8mm

QUICK ACTION DIGITAL ELECTRONIC INDICATORS-GROUP 2

- Excellent repeatability with quick movement of measurements
- True Inch/MM conversion
- Absolute zero reset button
- On/Off button
- Stem: 8mm
- Lug back
- With fitted case

GROUP 2

**INCH/METRIC
.0005" / .01mm RESOLUTION**

**0~0.5"/0~12mm
4400-0109**

**0~1"/0~25mm
4400-0110**



8mm

Limited Supply!

DIAL INDICATORS

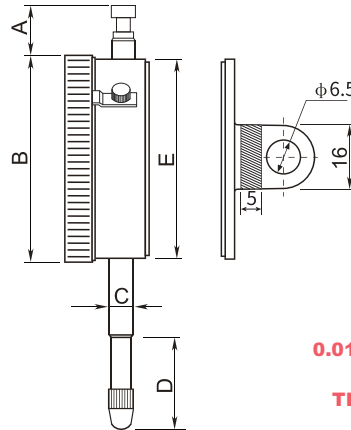
Dasqua® 0-10MM METRIC DIAL INDICATOR -GROUP 2

DIN 878

- Measuring range 0-10mm
- Graduation is 0.01mm
- Reading is 0-100-0
- Accuracy is 0.017mm
- Hysteresis is 0.003mm
- Scale divisions are 0.01mm
- Strictly made in accordance with DIN 878
- Body diameter is 58mm, shank diameter is 8mm.

GROUP 2

0~10MM Range
5111-1005



0.01mm GRADUATION

TIP THREAD: M2.5

Specification

Range	Graduation	Style	(mm)					Accuracy	Hysteresis
			A	B	C	D	E		
0-10	0.01	Lug back & Flat back	10.5	58	8	20.5	53.5	0.017	0.003

Dasqua® METRIC DIAL INDICATOR-JEWELLED -GROUP 2

DIN 878

- Used to measure surface flatness as well as axial runout and also used to check tool set up and squareness.
- Limit indicator clips included.
- Strictly made in accordance with DIN 878.
- Jeweled bearing providing the lowest possible bearing friction.
- With narrowed range and higher accuracy.
- Calibration certificate
- Fitted case

0~10MM Range
5111-1205

Flat Back Installed & Lug Back Included



GROUP 2

SHOCK-PROOF



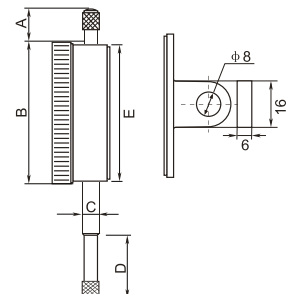
• Internal gears, teeth, clamps, etc. are oil plated.



• Strictly made in accordance with DIN 878;



• Poles are precisely grinded, which guarantees concentricity.



Specifications

Range	Graduation	(mm)					Accuracy	Hysteresis
		A	B	C	D	E		
0-10	0.01	6	Ø58	Ø8	18.5	Ø55	0.017	0.003

Dasqua® DIGITAL ELECTRONIC INDICATORS -GROUP 2



- Calibration certificate provided with total forward error, hysteresis error, total error and deviation error on it.
- Watchcase made of high-strength aluminum alloy guaranteeing low deformation.
- Glass grating for high accuracy and stable performance.
- Temperature and humidity test for each product, ensuring the normal use of each in harsh environment.
- Copper sleeve and rod precisely ground to reduce shaking.
- The functions of tolerance set and tolerance alarm are optional.
- Alarm light is also available for quick-checking products' tolerance.
- 3 Buttons: On/Off, Inch/mm & ABS/PRESET
- Contact Point Thread: M2.5x0.45
- Stem Diameter: 8mm
- Standard CR-2032(3V) battery included.
- Flat back
- Fitted case



• Glass grating for high accuracy and stable performance



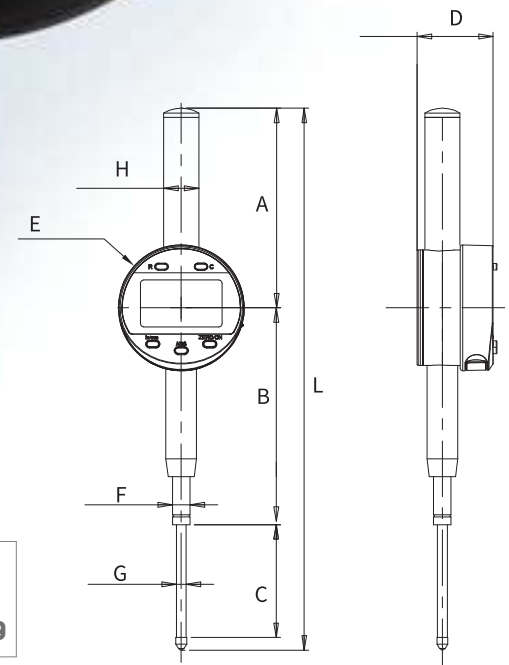
• Housing entirely cast made of high-strength aluminum alloy guaranteeing low deformation

GROUP 2

**INCH/METRIC
0.0005" GRADUATION**



- Temperature and humidity test for each product, ensuring the normal use of each in harsh environment



**Replacement
Contact Point
M2.5x0.45
5260-9999**

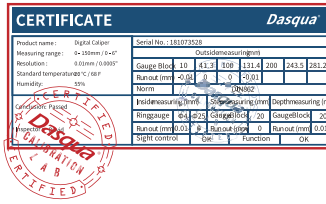
**REPLACEMENT BATTERY (ITEM #4102-0032)
(mm)**

Item#	Range	Resolution	REPLACEMENT BATTERY (ITEM #4102-0032) (mm)								
			A	B	C	D	E	F	G	H	L
5260-1105	0-0.5"/0-12.7mm	.0005"/.01mm	47.7	51.5	25.8	32.4	Ø57.4	Ø8h6	Ø4.5	Ø10	125
5260-1110	0-1.0"/0-25.4mm	.0005"/.01mm	68	76	33	34.7	Ø57.4	Ø8h6	Ø4.5	Ø16	183
5260-1115	0-2.0"/0-50.8mm	.0005"/.01mm	91	102.8	51.5	34.7	Ø57.4	Ø8h6	Ø4.5	Ø16	247



Dasqua® ABSOLUTE DIGITAL ELECTRONIC INDICATORS -GROUP 2

- Positive, tactile-feel button activation.
- Data output.
- "+" or "-" direction set.
- High precision contact point.
- Flat back.
- Lug back optional.



CABLE 01 Absolute

Data output mm/in

BLUETOOTH TRANSMITTER WIRELESS TRANSMITTER

GROUP 2

INCH/METRIC/FRACTION .0005" OR .00005" GRADUATION

• Large rotatable LCD display with clear reading

• Low power consumption assures longer service life

• More function: On/Off button, Preset, Origin, ABS/Zero and mm/inch switchable, achieving multifunctional

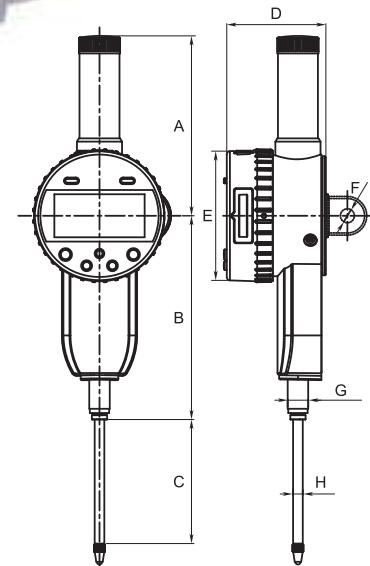
Bluetooth Transmitter 2140-9998



Cable 2140-9999



Wireless Transmitter 2140-9997



REPLACEMENT BATTERY (ITEM #4102-0032)

Item#	Range	Resolution	(mm)								Accuracy
			A	B	C	D	E	F	G	H	
5340-8105	0-1/2"/0-12.7mm	.0005"/.01mm	60.2	53.8	14.2	40.2	Ø60.1	Ø6.5	Ø8 or Ø1/8"	Ø4.5	.0005"/.01mm
5340-8110	0-1"/0-25.4mm	.0005"/.01mm	55.7	68.8	32.7	46.2	Ø61.1	Ø6.5	Ø8 or Ø1/8"	Ø4.5	.0005"/.01mm
5340-8115	0-2"/0-50.8mm	.0005"/.01mm	83.7	94.8	57.7	46.1	Ø61.1	Ø6.5	Ø8 or Ø1/8"	Ø4.5	.001"/.015mm
5340-9105	0-1/2"/0-12.7mm	.00005"/.001mm	60.2	53.8	14.2	40.2	Ø60.1	Ø6.5	Ø8 or Ø1/8"	Ø4.5	.00016"/.004mm
5340-9110	0-1"/0-25.4mm	.00005"/.001mm	55.7	68.8	32.7	46.2	Ø61.1	Ø6.5	Ø8 or Ø1/8"	Ø4.5	.00016"/.004mm
5340-9115	0-2"/0-50.8mm	.00005"/.001mm	83.7	94.8	57.7	46.1	Ø61.1	Ø6.5	Ø8 or Ø1/8"	Ø4.5	.0002"/.005mm

PRECISION DIAL TEST INDICATORS

- Dovetail mount top, back & front.
- Includes fitted case & 2 stems (5/32" & 3/8").
- Precision pivot bearing.
- 0.098" Contact point.
- Satin chrome finish.
- Jeweled movements.
- Automatic reversing.

Item#	Range	Graduation	Face	Reading
4400-0010	0~0.03"	.0005"	White	0-15-0
4400-0101	0~0.03"	.0005"	Yellow	0-15-0
4400-1001	0~0.03"	.0005"	Black	0-15-0
4400-0100	0~0.008"	.0001"	White	0-40-0

Replacement Point For 0~0.03" (Item #4400-1007) (M1.8 Thread)
Replacement Point For 0~0.008" (Item #4400-1008) (M2 Thread)



White Face
0~0.03" Range
4400-0010

Ultra-Series DIAL TEST INDICATORS

- Manufactured and inspected at world class factory that produces highest quality European brands.
- Three dovetail positioning mounts work with most existing test indicator accessories.
- Precision gear-driven design with smooth, jeweled movement.
- Contact point reverses automatically, always maintaining clockwise hand rotation.
- Frictionally adjustable contacts.
- Meets or exceeds ANSI/ASME accuracy specifications.
- High contrast, easy-to-read dials with white background.
- Satin chrome finish.

1-1/4" (32mm) DIAL FACE
INCLUDES CASE & 2 STEMS (5/32 & 3/8")



0~0.03" Range
Graduation .0005
4409-1201

0~0.008" Range
Graduation .0001
4409-1206

Ultra-Series DIAL TEST INDICATOR WITH DOVETAIL MOUNT

- Manufactured and inspected at world class factory that produces highest quality European brands.
- Three dovetail positioning mounts work with most existing test indicator accessories.
- Precision gear-driven design with smooth, jeweled movement.
- Contact point reverses automatically, always maintaining clockwise hand rotation.
- Frictionally adjustable contacts.
- Meets or exceeds ANSI/ASME accuracy specifications.
- High contrast, easy-to-read dials with white background.
- Narrow body for in reach ability.
- Satin chrome finish for durability.



Kit includes:
2-contact points,
2-dovetail clamps (stem 5/32 & 3/8"),
1-swivel post holder,
1-tool post holder,
1-contact wrench with fitted case.

0~0.03" Range
Graduation .0005
4409-1208

1-1/2" LARGE FACE, DIAL TEST INDICATORS

- Dial Face: 1-1/2" diameter
- Contact Point: .098"
- Dovetail mount top, back & front
- 2 stems (5/32 & 3/8") included
- Jeweled movements
- Satin chrome finish
- Automatic reversing
- With fitted case.



0~0.03" Range
Graduation .0005
4400-1010

0~0.008" Range
Graduation .0001
4400-0103

Replacement Point For 0~0.03" (Item #4400-1007) (M1.8 Thread)
Replacement Point For 0~0.008" (Item #4400-1008) (M2 Thread)

Ultra-Series LARGE FACE DIAL TEST INDICATOR

- Manufactured and inspected at world class factory that produces highest quality European brands.
- Three dovetail positioning mounts work with most existing test indicator accessories.
- Precision gear-driven design with smooth, jeweled movement.
- Contact point reverses automatically, always maintaining clockwise hand rotation.
- Frictionally adjustable contacts.
- Meets or exceeds ANSI/ASME accuracy specifications.
- High contrast, easy-to-read dials with white background.
- Satin chrome finish.



1-9/16" (40mm)
DIAL FACE

0~0.03" Range
Graduation .0005
4409-1203

2 stems (5/32 & 3/8") included

DIAL TEST INDICATORS

VERTICAL DIAL TEST INDICATOR

- Dovetail mounting top, back and bottom.
- Adjustable bezel and dial are easily set and reset to zero.
- Satin chrome finishing.
- Contact point can be displaced 210°.
- Includes 2 stems (5/32" & 3/8").

Range	Graduation	Reading
0~0.03"	.0005"	0-15-0



0~0.03" Range
4400-1002

METRIC DIAL TEST INDICATORS

- Precision pivot bearing.
- 2.5mm contact point.
- Satin chrome finish.
- Jeweled movements.
- Automatic reversing.
- Includes fitted case & 2 stems (6mm&8mm).
- Dovetail mount top, back, & front.



0~0.8mm Range
.01mm Graduation
4400-1004

0~0.2mm Range
.002mm Graduation
4400-1014

Interapid Style TEST INDICATOR & SET



5/32" Dia.

- Swiss type horizontal dial test indicator
- Automatic reversal
- Jeweled movement
- Dial reading 0-15-0
- Easy-to-read tilted dial
- Dial diameter: 1-1/2"
- 210° swivel arc.
- .080" steel contact point.

.0005 GRADUATION

Complete Kit
0~.060" Range
4400-0014

Indicator only
0~.060" Range
4400-1006

Case&2 Stems(5/32&3/8") Included

Kit Includes:

- 3 contact point (0.040", 0.080", 0.120")
- 2 dovetail clamps (sems 5/32", 3/8")
- Axial support
- Height gage bar with dovetail clamp-3/8" hole



Pro-Series LONG RANGE TEST INDICATOR

- Swiss style horizontal dial test indicator
- Automatic reversal
- Jeweled movement
- Dial reading 0-15-0
- Easy-to-read tilted dial
- 210° swivel arc.
- Dial diameter: 30mm(1.185")
- .080" carbide contact point.
- Very large measuring range.
- 4mm(5/32") swivel stem.
- With revolution counter.
- 2 Stems (5/32" & 3/8") included.
- With fitted case.



5/32"

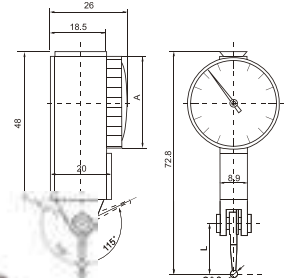
.0005 GRADUATION
Reading: 0-15-0

Range: 0~.060"
4400-1260

Limited Supply!

Dasqua® METRIC DIAL TEST INDICATORS

- A hard frame body providing excellent rigidity.
- White edge of dial for easy to read.
- Hardened and ground contact point.
- Satin chrome-finish case for durability.
- Shock resistant.
- Strictly made in accordance with DIN2270.
- Precision gear-driven design with smooth movement.



4mm

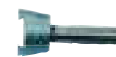
8mm

Item#	[mm] Range	Graduation	Casing Diameter (A)	Length of Stylus (L)
5221-0005	0.8	0.01	Ø30	16.5
5221-0000	0.8	0.01	Ø37.5	16.5

REPLACEMENT PARTS FOR Interapid Style INDICATORS



Holding Bar



Stem 5/32" Dia.



Dovetail Clamp



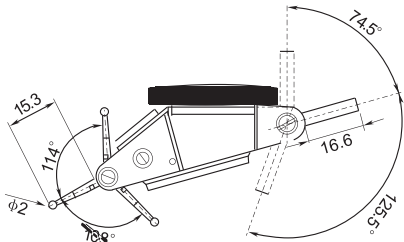
Replacement Point

Item#	Description
4401-0731	1/4x1/2" Holding Bar with 1/4" pin
4401-0732	Stem 5/32" dia. with dovetail washer
4401-0734	Dovetail Clamp, bore dia. 1/4 & 3/8"
4401-0735	Replacement Point 0.04" (M1.4 thread)
4401-0736	Replacement Point 0.08" (M1.4 thread)
4401-0737	Replacement Point 0.12" (M1.4 thread)

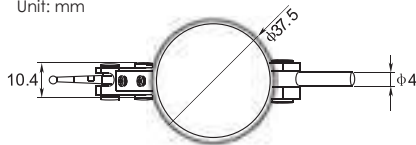
Dasqua® DOUBLE RANGE TEST INDICATORS



- High precision contact point.
- 210° swivel arc.
- Jeweled bearing.
- Automatic reversal.
- Includes 3 contact points: 0.040", 0.080", 0.120" and 2 dovetail stem clamps.



Unit: mm



5/32"



SHOCK-PROOF

Item#	Range	Reading	Dial	Dial Reading
5221-1115	1.6mm	0.01mm	25mm	0-40-0
5222-6110	0.060"	0.0005"	1.5"	0-15-0

Replacement Points for Inch or Metric Indicators

Item#	Description
5222-6003	Replacement Point 0.040" (M1.6 Thread)
5222-6004	Replacement Point 0.080" (M1.6 Thread)
5222-6005	Replacement Point 0.120" (M1.6 Thread)



Dasqua® DOUBLE RANGE DIAL TEST INDICATOR KIT

- Tough shock-proof gearing.
- A hard frame body providing excellent rigidity.
- White edge of dial for easy to read.
- Satin chrome-finish case for durability.
- Precision gear-driven design with smooth movement.
- With twice the range on large easy-to-read tilted dial.

.0005 GRADUATION
Reading: 0-15-0

0~0.060" Range
5222-6002



Kit includes:

- 3 contact points (0.040", 0.080", 0.120")
- 2 dovetail clamps (stems 5/32", 3/8")
- Axial support
- Height gage bar with dovetail clamp-3/8" hole

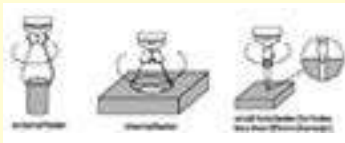
Replacement Points

Item#	Description
5222-6003	Replacement Point 0.040" (M1.6 Thread)
5222-6004	Replacement Point 0.080" (M1.6 Thread)
5222-6005	Replacement Point 0.120" (M1.6 Thread)

CENTERING INDICATORS

PRECISION CENTERING INDICATOR

- Quick, accurate, easy centering in boring and milling set-up on horizontal or vertical machines.
- Operates at an angle from horizontal to vertical machines, and from internal to external diameter without any change by simply changing the feeler.
- Face of the indicator remains stationary at any desired position while the machine spindle rotates, leaving the operator with both hands free to accurately position the table.



SPECIFICATIONS

Body Length:..... 5-1/2"
 Shank:..... 3/8" diameter x 7/8" long
 Weight:..... 9-1/2 OZ
 Feeler Ball:..... 1/8" diameter
 Measuring Range:..... 250 axis offset
 Capacity:..... Internal 5/32" to 4-1/4" dia. External 0 to 4-1/4" dia.
 Speed:..... Spindle rotation up to 800RPM (Exceeding this speed is not recommended)
 Locating Accuracy:..... 0.0002" of true center

.0005" Graduation
4400-0020

Includes:

- Restraining rod
- Center point feeler
- 2" straight feeler
- 4" straight feeler
- 6" straight feeler
- 2" curved feeler
- 4" curved feeler
- 6" curved feeler

Pro-Series CENTERING INDICATORS

- Provides a simplified method of centering a workpiece or fixture on horizontal or 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.
- Length: 6-7/8", Shank Dia.: 3/8", Feeler Dia.: 1/8".
- Locating accuracy within .0002" of true center.
- Operating speed not to exceed 800 RPM.
- Capacity: 5/32"-12" internal, up to 12" external.
- With fitted wooden case.

HHP PRO-SERIES



Kit Includes:

- 3 ID Feeler: 2, 3 & 4" long
- 3 OD Feeler: 2, 3, & 4" long
- 1 Center Locating Feeler

INCH
.0005" Graduation
4400-0120

METRIC
0.01mm Graduation
4400-0121



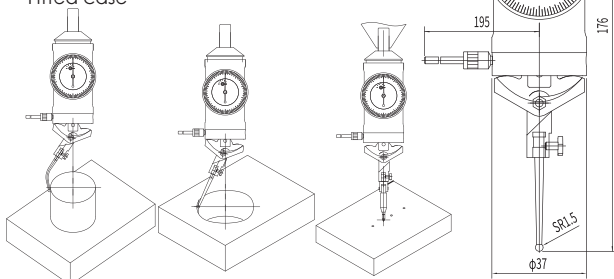
PRECISION MEASURING TOOLS

Dasqua® CENTERING INDICATORS

- Use this indicator to quickly center work pieces or fixtures on your bore and milling set-ups.
- Determining the centers of bores and shafts.
- Sturdy metal housing suitable for workshop.
- Internal or external centering.
- Operates at any angle from vertical to horizontal without a change.
- The shank is 10mm diameter and 20mm long.
- The indicator is 180mm long with 45mm straight feeler.
- Internal diameter is from 4mm to 300mm.
- External diameter is from 0mm to 300mm.
- Straight feeler length: 45mm/100mm/154mm.
- Curved feeler length: 46mm/100mm/154mm.
- Center point feeler length: 52.5mm.

Kit Includes:

- 3 internal & external feelers.
- Restraining arm
- Center point finder
- Wrench
- Fitted case



.0005" or .01mm GRADUATION

Item#	Range	Graduation	Accuracy
5711-6100	0-0.15"	0.0005"	0.001"
5712-1100	0-3mm	0.01mm	0.02mm

PRECISION TEST INDICATOR HOLDER & KIT

0-0.03" TEST INDICATOR

- Resolution: 0.0005"
- Precision pivot bearing.
- 0.098" Contact point.
- Satin chrome finish.
- Dovetail mount top, back, & front.
- 2 stems (5/32" & 3/8").
- Jeweled movements.
- Automatic reversing.



Holder Only
4401-0401

Test Indicator Kit
4400-0013
FITTED DURABLE PLASTIC CASE



Indicator Not Included

UNIVERSAL TEST INDICATOR HOLDER

- 1-7/8" Clamping diameter.
- Length from center of clamping bracket to indicator: 6-1/2".
- Fits Bridgeport "J" head.

Z-Limit QUILL CLAMP HOLDER



- Manufactured and inspected at world class factory that produces highest quality European brands.
- Fits Bridgeport type milling machines.
- Fits milling machines with 1-7/8" dia. quills.
- Clamps directly onto machine quill.
- Will not disturb working tool in the machine.



4409-0010

INDICATOR IS NOT INCLUDED

HALF-ROUND COMBINATION HOLDER

- Versatile holder for test indicators equipped with stems or dovetails
- 1/4 x 2" long holding bar
- Accepts 5/32" stem or dovetails
- 3-1/2" effective measuring range



4401-0412

INDICATOR IS NOT INCLUDED

AXIAL SUPPORT BRACKET

- Used for mounting indicators with dovetails or rods
- 3/8" diameter body for secure support
- Multi-position, 360° capability
- .375" shank
- Constant tension
- 6.500 radial sweep

4401-0740



MADE IN
USA
4401-0741

UNIVERSAL EXTENSION ARM

- Unique central locking mechanism.
- Both sides with male threads (M8x1.25x8mm VS 5/16"-18x8mm)
- Rigid universal steel arm.
- Extends up to 12"



4401-0113

UNIVERSAL ARM FOR INDICATORS

- Rigid universal steel arm.
- Indicator stem hole: 8mm
- Unique central locking mechanism.
- Dovetail groove for clamping test indicator.
- Fine adjustment.
- Arm length 11"
- Rod side dimension (dia.x L): 8mmx40mm



4401-0115

MINI UNIVERSAL ARM FOR INDICATORS

- Unique central locking mechanism.
- Dovetail groove for clamping test indicator.
- Indicator stem hole: 8mm
- Rigid universal steel arm.
- Arm length 6"
- Rod side dimension (dia.x L): 8mmx40mm



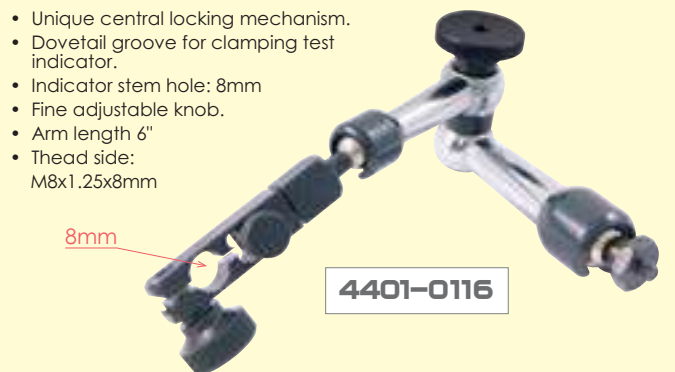
Standard Shown

Standard
4401-0117

Fine Adjustment
4401-0118

MINI UNIVERSAL ARM W/FINE ADJUSTMENT

- Unique central locking mechanism.
- Dovetail groove for clamping test indicator.
- Indicator stem hole: 8mm
- Fine adjustable knob.
- Arm length 6"
- Thread side: M8x1.25x8mm



4401-0116

INDICATOR ACCESSORIES

ZERO-SET UNIVERSAL KIT FOR TEST INDICATORS

- Designed for test indicator with dovetails or 1/4" post and functions as a quick and practical work positioning device
- Setting up a workpiece before machining, or aligning the center of a round workpiece in relation to the cutting head, takes virtually no time with "Zero-Set".
- The hardened clamping post consists of three O.D.'s (1/4, 3/8 & 1/2")
- It reaches anywhere within a 8" diameter and fine-adjusts about 3/8" with knob.



Indicator Not Included

4401-0423

ZERO SET UNIVERSAL ATTACHMENT

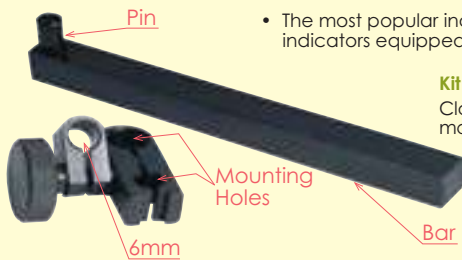


- Allows placement of any test indicator with dovetails or 1/4" posts in a multitude of positions
- Angles up to 90° on either side and bends both forward and backward
- Allows for an infinite range of measurement over an extensive area

Limited Supply!

4401-0422

HEIGHT GAGE ATTACHMENT CLAMP SET



- The most popular indicator clamp. Fits all indicators equipped with rods or dovetails

Kit includes:
Clamp with dovetail and mounting holes

Item#	Mounting Holes	Bar	Pin
4401-0419	5/32 & 1/4"	5/16 x 5/16 x 3"	6mm
4401-0420	6 & 8 mm	9 x 9 x 75mm	6mm
4401-0421	7/32 & 3/8"	3/8 X 3/8 x 4"	6mm

ADAPTER CLAMP

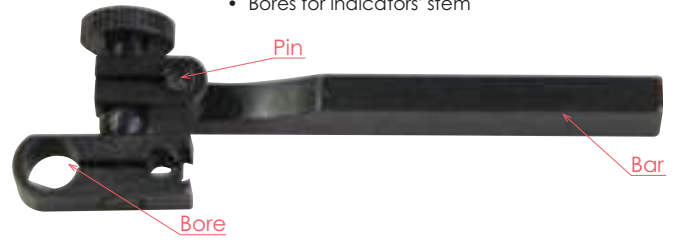
- Adapter for mag. base, indicator stems and connect rods
- Rigid steel construction.
- Bore Diameter: 5/32, 1/4 & 1/4"



4401-0123

SWIVEL HEAD CLAMPING HOLDERS

- Rigid steel construction
- Dovetail groove for clamping test indicators
- Bores for indicators' stem



Item#	Bore	Bar	Pin
4401-0450	5/32 & 1/4"	1/2 x 1/4 x 3"	1/4
4401-0453	5/32 & 3/8"	1/2 x 1/4 x 3"	1/4
4401-0456	1/4 & 3/8"	1/2 x 1/4 x 3"	1/4

DOVETAIL INDICATOR CLAMPS

- 3" overall length
- For use with all test indicators and probes with dovetails
- Locks in four 90° quadrants



Item#	Dia. of Rod
4401-0426	1/4"
4401-0427	6mm
4401-0428	8mm

INDICATOR GRIP HOLDER

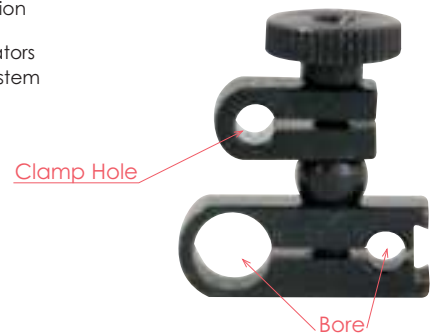


- Made for test indicator with 5/32" stem.
- Rod side dimension (dia.x L): 1/4"x 1-1/2"

4401-0119

DOVETAIL CLAMPS

- Rigid steel construction
- Dovetail groove for clamping test indicators
- Bores for indicators' stem



Item#	Bore	Clamp Hole
4401-0466	6 & 8mm	6mm
4401-0467	4 & 6mm	4mm
4401-0468	5/32 & 3/8"	1/4"
4401-0469	1/4 & 3/8"	4mm
4401-0470	5/32 & 1/4"	5/32"

Pro-Series FLEX & RIGID RULES

Style	Graduation
4R.....	8ths & 16ths, 32nds & 64ths
5R.....	32nds & 64ths, 10ths & 100ths
16R.....	32nds & 64ths, 50ths & 100ths
3R.....	32nds & 64ths, 10ths & 50ths
E/M.....	32nds & 64ths, mm & .5mm



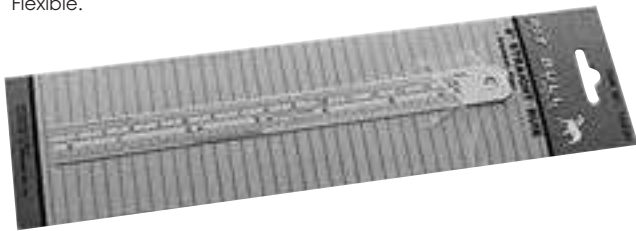
- Made from the finest steel available.
- All fully hardened, tempered and chrome finished.
- Precisely etched for accuracy and readability.

Length (Inch)	Style	FLEX Item#	Width (Inch)	RIGID Item#	Width (Inch)
6	4R	4901-0131	1/2	4901-0201	3/4
12	4R	4901-0132	1/2	4901-0202	1
24	4R	4901-0134	3/4	4901-0204	1-1/8
36	4R	4901-0136	3/4	4901-0206	1-1/4
48	4R	4901-0138	3/4	-----	-----
6	5R	4901-0140	1/2	-----	-----
12	5R	4901-0142	1/2	4901-0212	1
24	5R	4901-0144	3/4	4901-0214	1-1/8
36	5R	4901-0146	3/4	-----	-----
48	5R	4901-0148	3/4	-----	-----
6	16R	4901-0150	1/2	4901-0220	3/4
12	16R	4901-0152	1/2	4901-0222	1
24	16R	4901-0154	3/4	4901-0224	1-1/8
36	16R	-----	-----	4901-0226*	1-1/4
6	3R	4901-0161	1/2	4901-0231	3/4
6	E/M	4901-0166	1/2	4901-0236	3/4
12	E/M	4901-0168	1/2	4901-0238	1

* Limited Supply

STAINLESS STEEL RULE

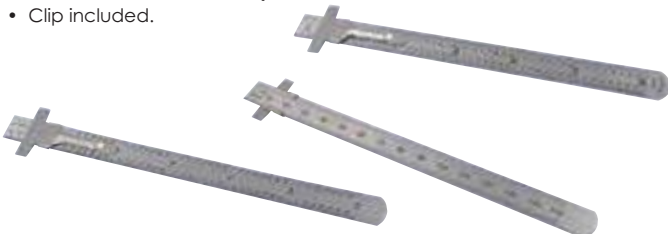
- Hardened stainless steel.
- Flexible.



Item#	Size	Reading
7019-0001	6"/15cm	3R-16ths, 32nd, 1mm

POCKET STAINLESS STEEL RULES

- Made from hardened stainless steel.
- Graduations are properly etched for accurate measurements.
- Packed in attractive PVC jacket.
- Clip included.



Item#	Length x Width	Reading
7006-0001	6 x 15/32"	32nds, 64ths & Decimal Equiv.
7006-0003	6 x 15/32"	E/M-32nds, 64ths, mm & 0.5mm

MULTI-USE RULE & GAUGE

- This indispensable pocket tool performs six separate functions: drill point gauge, bevel protractor, circle center finder, circle divider, tap and drill table and 4" rule with etched graduations 0 in 64ths and millimeters.



4906-0100

STEEL PROTRACTORS

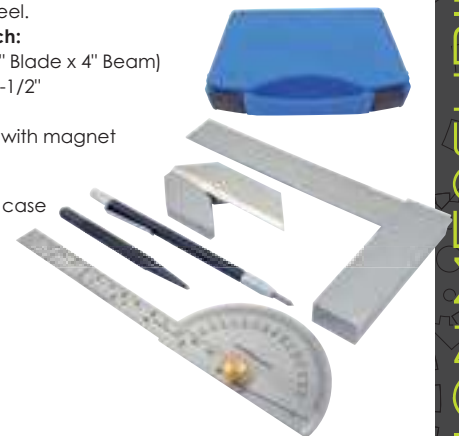
- Measures angles from 0 to 180°.
- Used for drawing radial lines, transferring angles and setting bevels.
- Blade secured firmly by lock nut at any angle.
- Made of tempered steel with satin chrome finish.
- Semi-circle Head Radius: 2"
- Features 6" arm and knurled thumb locknut.



Head Shape	Item #	Item #
Round	4901-0005	4901-0015
Square	4901-0006	4901-0016

5PC MEASURING & MARKING SET

- Made of hardend tool steel.
- **Set consists of one of each:**
 - Machinest Square: 6" (6" Blade x 4" Beam)
 - Center Finder Square: 1-1/2"
 - Round Head Protractor
 - Carbide Tipped Scriber with magnet other side.
 - Center Punch: 4"
- Complete in a fitted ABS case



5PC SET
4906-0105

DRILL POINT GAGE

NEW

- For properly grinding 59° drill points and for measuring drill tips.
- Rule and slide are made of steel with satin chrome finish.
- 6" rigid rule is calibrated in 8ths, 16ths, 32nds and 64ths.
- End clip is adjustable and removable.
- Slide is calibrated in 32nds and 64ths.

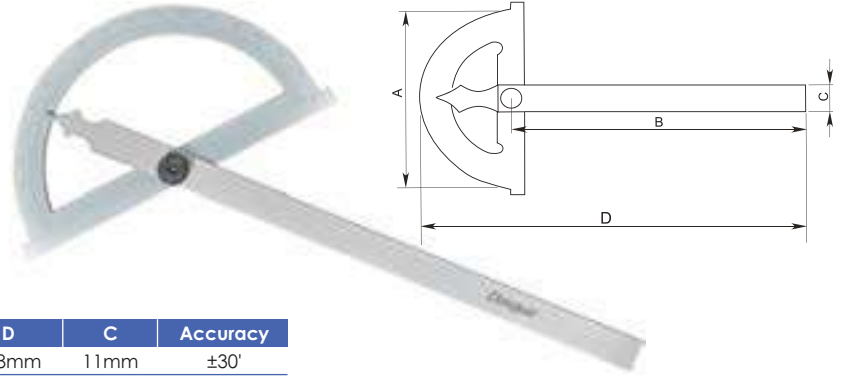
4906-0110



PROTRACTORS

Dasqua® 0-180° OPEN HEAD PROTRACTOR

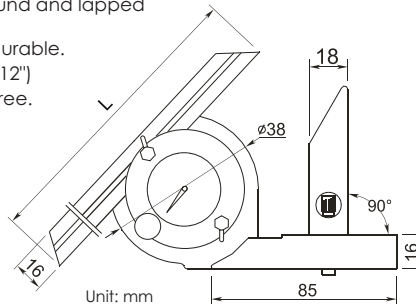
- Multi-purpose, engineering drawing, angle measurement, architectural design, woodworking, length measurement, etc.
- Packaged in a beautiful and durable leather bag.
- Measures angles from 0-180°
- Useful and accurate tool for setting bevels, transferring angles, and small squaring tasks.
- Blade secured firmly at any angle by a lock joint and knurled screw.
- Satin chrome finish for easy reading and resistance to rust.
- Hardened stainless steel.



Item#	Range	Graduation	Size (AxB)	D	C	Accuracy
1012-1005	0-180°	1°	80x120mm	168mm	11mm	±30'

Dasqua® 0-360° UNIVERSAL DIAL PROTRACTOR

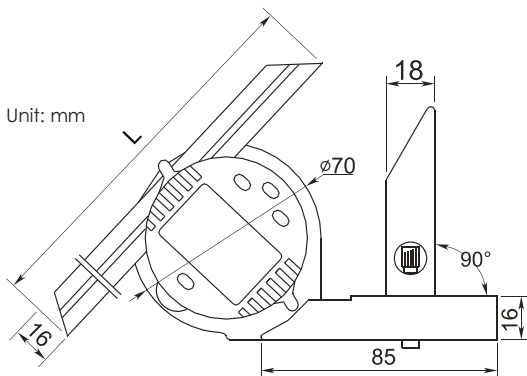
- Made of stainless steel.
- With a dial for easy and accurate reading.
- Measuring surface hardened, ground and lapped ensures smooth movement.
- Satin chrome finish, anti-rust and durable.
- Provided with three blades (6", 8", 12")
- Indicator pointer shows each degree.
- Packed in fitted case.



Item#	Range	Graduation	L	Accuracy
1031-2010	0-360°	5'	6"/150mm, 8"/200mm, 12"/300mm	±5'

Dasqua® 0-360° UNIVERSAL DIGITAL ELECTRONIC PROTRACTOR

- High contact display.
- All measuring face are hardened, ground and lapped.
- Hardened stainless steel.
- With fine adjustment.



Data Output



REPLACEMENT BATTERY (ITEM #4102-0032)

Item#	Range	Reading	L	Accuracy
1021-2005	0-360°	1'	6"/150mm, 8"/200mm, 12"/300mm	±5'

Dasqua® 4 PC COMBINATION SQUARE SET

- Made by procoated mold and no blister on the surface.

- Low surface roughness and high accuracy with surfaces precisely ground.
- Powder-coated process guaranteeing high surface durability.
- Distinct lines and figures against the satin chrome finish making reading easily.
- Strong and elegant packing.

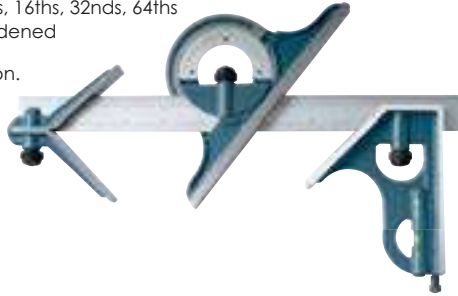
**0-180°
300mm/12" Blade
1012-2010**

1/64" / 1.0mm & 1/32" / 0.5mm GRADUATION

Technical drawing labels: scriber, level, square head, center head, blade, protractor head. Dimensions: 115, 176, 25, 305.

4PC COMBINATION SQUARE SET

- Set includes: square head, center head, protractor and blade.
- Double indexed protractor is graduated 180° in both directions.
- Graduation: 4R-8ths, 16ths, 32nds, 64ths
- Blade made of hardened stainless steel.
- Microfine graduation.
- Accuracy ±15'.



**0~12" Blade
4901-0003**

**16R Blade (32nds, 64ths, 50ths & 100ths) Item# 4901-0316*
Satin Chrome Finish**

* Limited Supply

3PC COMBINATION SQUARE SET

- Microfine graduation.
- Easy-to-ready blade is fully hardened and tempered
- Square head has level and scriber point
- Graduation: E/M 0.5mm & 32nds, 1.0mm & 64ths.
- Blade satin chrome finish.

**0~12" Blade
4901-0314**



UNIVERSAL DIAL PROTRACTOR SET

- The measuring value can be read on the dial indicator.
- An inspection window reads a full 360° with four 0-90° sections.
- Hardened stainless steel construction throughout this tool.
- It can be used as a ruler, straight edge, cross or miter square.
- Blades are beveled at 45° on one side and 60° on the other side.
- Blade Length: 6, 8-1/2, 12"

WITH 3 BLADES

**0~360° Range
4901-0001**

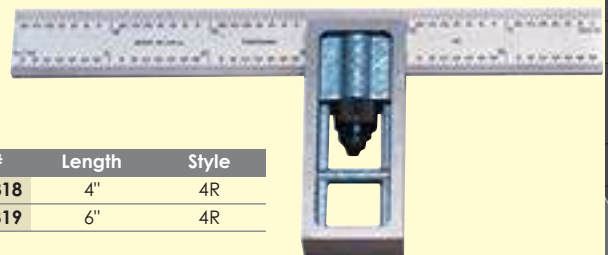


Limited Supply!

DOUBLE SQUARES

- Made of steel hardened and satin chrome finished.
- Slide is adjustable and removable.
- 4R: 8ths & 16ths, 32nds & 64ths

Limited Supply!



Item#	Length	Style
4901-0318	4"	4R
4901-0319	6"	4R

SQUARES & SETS

MACHINIST STEEL SQUARES & SETS



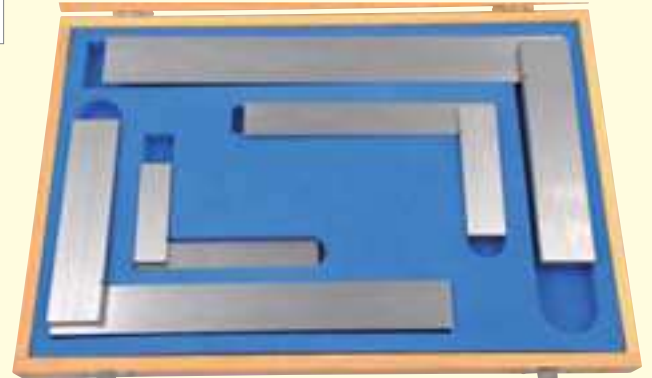
4906-0018 Shown

4 PC SET
2, 3, 4 & 6"
4906-0018

4 PC SET
4, 6, 9 & 12"
4906-0020

Item#	Blade Length	Beam Length
4906-0003	3	2.5
4906-0004	4	3.0
4906-0006	6	4.0
4906-0008	8	5.0
4906-0009	9	6.0
4906-0012	12	8.0

4906-0020 Shown

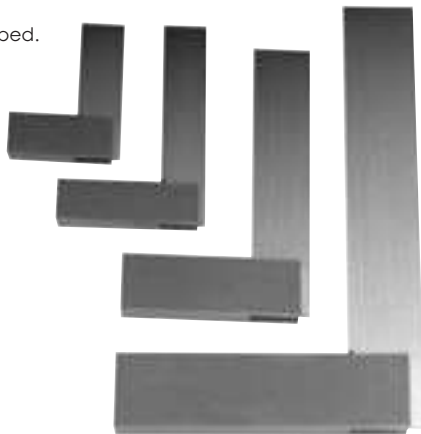


HHIP MACHINIST STEEL SQUARES & SET

- Made from fully seasoned tool steel.
- Accurate right angles both inside and outside.
- Fully hardened.
- Beam ground and lapped.

4 PC SET
2, 3, 4 & 6"
4901-0014

4 PC SET
4, 6, 9 & 12"
4901-3015



Item#	Blade Length	Beam Length	Squareness of Blade to Working Face
4901-0602	4"	3"	0.001"
4901-0604	6"	4"	0.001"
4901-0906	9"	6"	0.0015"
4901-1208	12"	8"	0.002"

Pro-Series SOLID SQUARES

- Made from tool steel, hardened and ground.
- Accurate right angles both inside and outside.

4 PC SET
2, 3, 4 & 6"
4901-0598*



* Limited Supply



Item#	Blade Length	Beam Length
4901-0590	2"	1-1/2"
4901-0591	3"	2-1/2"
4901-0592	4"	3"
4901-0593	6"	4"
4901-0594	9"	6"
4901-0595*	12"	8"
4901-0598*	Set of 2,3,4 & 6"	
4901-0599*	Set of 4,6,9 & 12"	

MACHINISTS CENTER SQUARES

- For rapid location of exact center of round, square and octagonal parts.
- Made from precision ground tool steel.
- Hardened and tempered blade.
- To execute place the item between the center square. Scribe different lines on the workpiece each time changing its position. Center of the scribed lines will give the accurate center of the work piece.



Range:
Up to 1-1/2" Diameter
4901-0351

Range:
Up to 3" Diameter
4901-0354

ROUND BAR CENTER FINDERS

- Very useful to find the centers on any round object.
- Can be held in collets or drill chucks.
- Shank: 3/8"



4406-0027

4401-0027

Z-Limit BEVEL EDGE SQUARES



- Manufactured and inspected at world class factory that produces highest quality European brands.
- Made of high grade stainless steel, hardened and ground.
- Accurate right angles both inside and outside

Tolerance(Squareness): +/- .0002"

Item#	Blade Length	Beam Length
4909-0003	3	2
4909-0006	6	4
4909-0008	8	5

Limited Supply!

90° WIDE BASE SQUARES



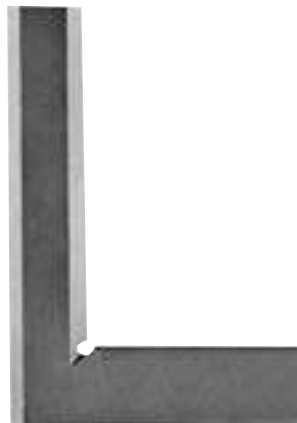
- Used for checking squares.
- Wide base for easy free standing.
- Hardened and both ends are lapped.
- Absolute 90° angle.

Item#	Blade Length	Beam Length
4901-1213	3"	2"
4901-1214	4"	3"
4901-1216	6"	4"
4901-1218	8"	5"

.0002" SQUARENESS

PRECISION BEVEL EDGE SQUARES

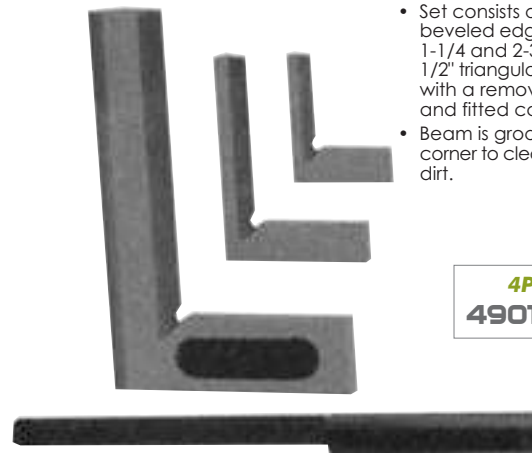
- Squares have accurate right angles both inside and outside.
- Beveled blade on both sides.
- Made from a single piece of fully seasoned tool steel.
- Fully hardened.
- Beam ground and lapped.
- Accuracy class H.



4 x 2-1/2"
4901-0022

6 x 4"
4901-0023

4PC DIEMAKER'S SQUARE SET



- Set consists of 3 hardened beveled edge squares (3/4, 1-1/4 and 2-3/8") plus a 1-1/2" triangular straight edge with a removable handle and fitted case.
- Beam is grooved at inner corner to clear out burrs and dirt.

4PC Set
4901-0018

PRECISION CYLINDRICAL SQUARES

- Used for checking squares, height gages and many instruments.
- Easy to access from any angle around it.
- Hardened and both ends are lapped.
- Absolute 90° angle.



Item#	Dimension Dia.	Height	Squareness	W.T. (lbs.)
4901-2601	3"	6"	± 0.00010"	13
4901-2602	4"	12"	± 0.00015"	45

PRECISION GRANITE SQUARES



- To squareness check and for inspection purposes.
- Round hole for less weight and easy handling (larger size with multi-holes).
- Complete with inspection certificate.

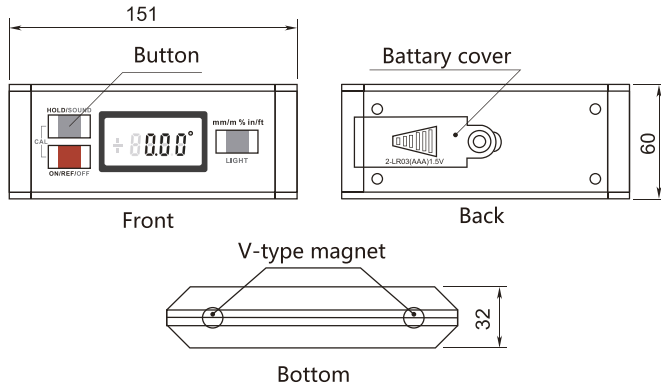
Item#	H x W x Thick	Squareness	Wt. (lbs.)
4901-2705	10x 6x 1"	0.0002"	6
4901-2706	15x10x1.5"	0.00028"	18

DIGITAL PROTRACTOR & ANGLE GAGES

Dasqua® DIGITAL ELECTRONIC PROTRACTOR

Absolute IP65 COOLANT & FLUID RESISTANT

- Absolute function, zero setting is unnecessary when the battery is replaced.
- Used as level and inclinometer to measure the included angle of non-continuous working surfaces.
- V-groove base with powerful embedded magnets, which secures strong attachment to the measuring surfaces (including cylindrical surface).
- Backlight function enables it to use in the dim plac.
- IP65 dust-proof and water-proof.

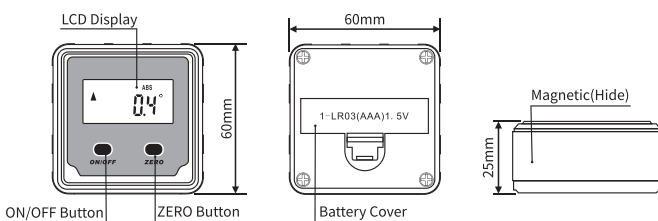


Item#	Range	Resolution	Accuracy
8400-0005	4 x 90°	0.1°	0°-90°: ±0.05° Rest of angle: ±0.15°

Dasqua® DIGITAL ELECTRONIC ANGLE GAGE

NEW

- Large easy-to-read backlight LCD display.
- Absolute 0° measuring at level surface.
- Measure relative bevel.
- With permanent strong magnet on measuring faces.
- CNC machined aluminum body.



Item#	Range	Resolution	Accuracy
8400-0010	4 x 90°	0.1°	±0.2°

Dasqua® 180° DIGITAL ELECTRONIC GAGE WITH FLIP-OUT DISPLAY

- With flip-out tilting display.
- Ultra-precise magnetic gage sets the angle of saw blades jointer fences, bandsaw tables and drill press tables.
- Measures both absolute level and relative bevel with readings that are always visible.
- V-groove in base for round objects like pipe and drill bits.



Item#	Range	Resolution	Accuracy	Repeatability	Size
8400-0000	±180°	0.1°	±0.1°	±0.1°	2.2x2.3x1.3"

MASTER PRECISION LEVELS

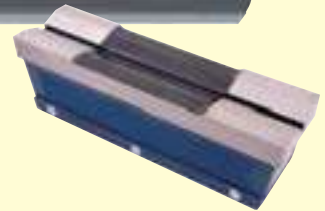
- Graduation: 0.0005" per 10" .
- For accurately checking the work of machinists and toolmakers setting up machinery and other work that requires extreme leveling accuracy.
- Ground and graduated main vial of 10 second accuracy.



Item#	Length
4901-0084	4"
4901-0081	8"
4901-0008	12"

INSPECTION BLOCK LEVELS WITH 2 VIALS

- For accurately checking the work of machinists and toolmakers setting up machinery and other work that requires extreme leveling accuracy.
- Feature a cross and main vial that is easily adjustable. They are heat insulated and are resistant to shock.
- 0.0005 Graduation Sensitivity per 10 Inch.



Item#	Length
4901-0086	6"
4901-0088	8"
4901-0092	12"

Dasqua® MASTER PRECISION LEVEL

DIN 877

- Strictly made in accordance with DIN877.
- Used to measure the straightness and flatness of machine guide rails.
- Robust cast iron model, precision ground measuring surface ensures high accuracy.
- Base with V-groove to allow use on round bars and shafts, cylindrical surfaces.
- With main vial and cross test vial



10 Second Accuracy!
1 Division Equals 0.0005" Per 10"

Item#	Range	Graduation
8302-0005	6"	0.0005"
8302-0010	8"	0.0005"
8302-0015	10"	0.0005"
8302-0020	12"	0.0005"



Dasqua® PRECISION FRAME SPIRIT LEVELS

DIN 877

- Strictly made in accordance with DIN 877.
- Used to measure the straightness and flatness of machine guide rails.
- Robust cast iron model, precision ground measuring surface ensures high accuracy.
- Base with V-groove to allow use on round bars and shafts.
- The adjustable glass bubble is highly sensitive and easy to read.
- Lapped, hardened and polished steel body.

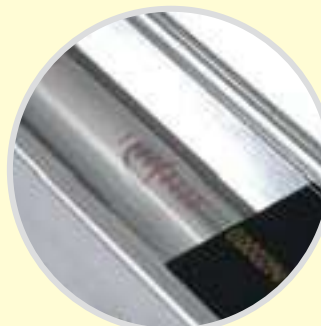


.0005" GRADUATION

Item#	Range	Graduation
8302-0003	6x6"	0.0005"
8302-0006	8x8"	0.0005"
8302-0009	10x10"	0.0005"
8302-0013	12x12"	0.0005"

PRECISION FRAME SPIRIT LEVELS

- This level comes with frame level and master level
- With fitted case

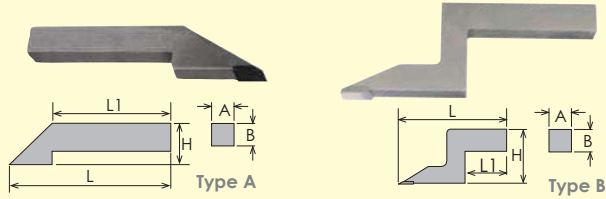


.0005" GRADUATION

Item#	Range	Graduation
4901-0077	6 x 6"	0.0005"
4901-0078	8 x 8"	0.0005"
4901-0007	12 x 12"	0.0005"

HEIGHT GAGES

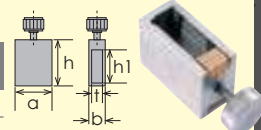
CARBIDE SCRIBERS & CLAMP FOR HEIGHT GAGES



Unit: Inch

Scriber Item#	Type	L	L1	H	A	B
4300-0016	A	2.15	1.3	0.5	0.23	0.33
4300-0035	B	1.7	0.8	1.3	0.23	0.32
4300-0126	B	3.2	1.6	1.2	0.35	0.35
3001-4105	B	2.52	1.1	1.9	0.20	0.31
3110-4120	B	3.15	1.4	1.6	0.35	0.35
3110-4125	B	8.0	4.3	1.9	0.39	0.63
3130-4115	B	2.57	1.6	1.2	0.50	0.25
3130-4125	A	4.13	2.6	1.4	0.39	0.47
3130-4130	B	4.33	2.6	1.5	0.39	0.59

Clamp Item#	h	a	h1	b	t
4300-0151	1.34	0.79	0.80	0.59	0.355

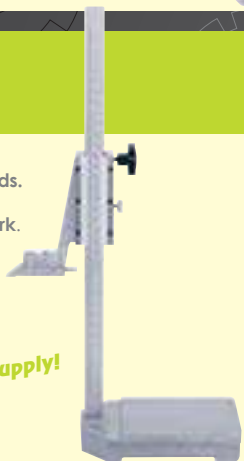


Z-Limit 12"/300MM VERNIER HEIGHT GAGE

- Manufactured and inspected at world class factory that produces highest quality US brands.
- Made of stainless steel.
- The finest of vernier scribers for accurate work.
- Satin-chrome finished scale and vernier.
- .001"/.02mm reading.

0~12"/0~300mm Range
4309-0002

Limited Supply!



DIAL HEIGHT GAGES

- Made of high quality stainless steel and satin chrome finish.
- Carbide tipped scriber for longer life.
- Fine feed adjustment.
- Positive lock screw.
- Come with fitted case.

.001" GRADUATION

Item#	Range
4300-0028	0~6"
4300-0029	0~8"
4300-0030	0~12"

Replacement Scriber
(see above for dimensions)

Scriber Item#
4300-0035



Dasqua®

DOUBLE-BEAM DIAL HEIGHT GAGE

- Provided with a dial and two digit counters for more accurate reading.
- Double-beam ensures higher measuring accuracy.
- One counter reads in the plus direction and the other reads in the minus direction.
- With a feed wheel on the back.
- Carbide tipped scriber for sharp, clean lines.
- Both counters and dial can be re-zeroed at any scriber position.
- Base hardened, ground and lapped for maximum flatness.
- Dustproof shield optional.



Item#	Range	Resolution	Graduation
3222-4205	0-12"	0.001"	0.1"

Z-Limit DIAL HEIGHT GAGE

- Manufactured and inspected at world class factory that produces highest quality European brands.
- Fine feed adjustment with positive lock.
- Other side of scriber has a pin to attach indicator clamp and dovetail.
- Made of high quality stainless steel.
- Scriber is carbide tipped.
- Complete with fitted case.

Limited Supply!



CLAMP SHOWN INCLUDED



.001" GRADUATION

0~24" Range
4309-0024

Dasqua®

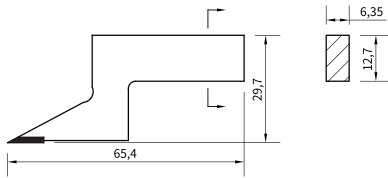
ABSOLUTE DIGITAL ELECTRONIC HEIGHT GAGE

- Built-in absolute liner encoder, no need to set the reference point at every power-on.
- Carbide tipped scriber for sharp, clean lines.
- With SPC data output.
- Large, easy-to-read LCD display.
- Rigid, heavy duty beam and base.
- Made of stainless steel.

Absolute

Data output

mm/inch



Replacement Scriber (Item# 3130-4115)
(see page 67 for dimensions)

Item#	Range	Resolution	Accuracy
3130-8115	0-300/0-12"	0.01/0.0005"	±0.04



Z-Limit DIGITAL ELECTRONIC HEIGHT GAGES

- Manufactured and inspected at world class factory that produces highest quality European brands.
- Made of high quality stainless THROUGHOUT.
- Function Keys: On/Off/Zero, mm/inch, Tol, ABS, Hold and Set.
- Power: SR 44, 1.55V battery (included).
- True inch/metric conversion.
- Complete with fitted case.
- Scriber is carbide tipped .
- Fine adjustment.

Z-Limit
ULTRA-SERIES



Limited Supply!

INCH/METRIC
.0005"/.01mm RESOLUTION

Item#	Range
4309-0112	12"/300mm
4309-0124	24"/600mm

Replacement Battery (Item #4102-0030)



DIGITAL ELECTRONIC HEIGHT GAGES WITH SPC OUTPUT

- Made of stainless steel throughout.
- Fine adjustment control for smooth movement
- Inch/mm conversion
- ABS and Inc. mode.
- Zero setting.
- Carbide tipped scriber
- With RS232 output port.
- Standard CR-2032(3V) battery included.

Limited Supply!

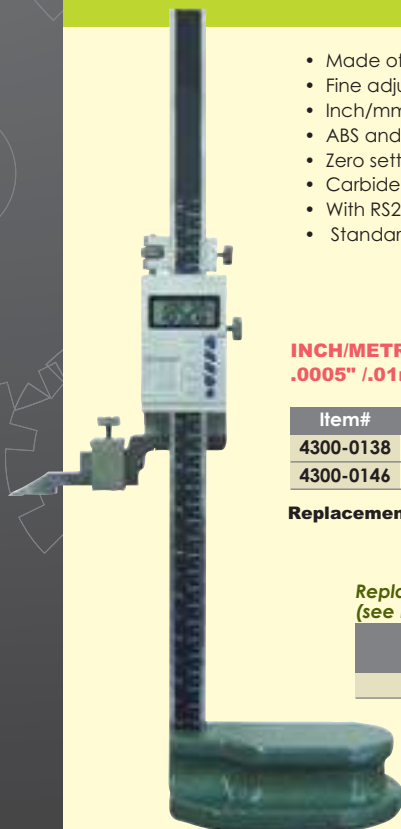
INCH/METRIC
.0005"/.01mm RESOLUTION

Item#	Range	Accuracy
4300-0138	8"/200mm	.0015"/.03mm
4300-0146	24"/600mm	.0025"/0.05mm

Replacement Battery (Item #4102-0032)

Replacement Clamp & Scriber
(see Page 67 for Dimensions)

Scriber Item#	Clamp Item#
4300-0016	4300-0151



DIGITAL ELECTRONIC HEIGHT GAGES

- Large display screen
- Hardened and ground stainless steel frame
- Preset memorizing function
- Cast iron base
- True inch/metric conversion.
- Button battery SR 44, 1.55 V

INCH/METRIC
.0005"/.01mm RESOLUTION

0~12" Range
4300-0112



* Limited Supply

Item#	Range	Accuracy
4300-0112*	12"/300mm	.0020"/0.04mm
4300-0120*	20"/500mm	.0022"/0.05mm
4300-0124	24"/600mm	.0025"/0.05mm

Replacement Battery (Item #4102-0030)

Replacement Scriber (see Page 67 for Dimensions)

Scriber Item#
4300-0126



DIGITAL ELECTRONIC HEIGHT GAGES

PRECISION MEASURING TOOLS

Dasqua®

BUILT-IN BLUETOOTH ABSOLUTE HEAVY DUTY DIGITAL ELECTRONIC HEIGHT GAUGE

- IP65 COOLANT & FLUID RESISTANT
- Data output
- BLUETOOTH TRANSMITTER
- Battery + CR2032
- mm / inch



- The new generation measuring serie with Built-in Bluetooth transmission.
- Absolute function.
- Heavy duty main beam and base.
- Direct inch/metric conversion.
- Large, easy-to-read digital display.
- Carbide tipped scriber for sharp, clean lines.
- Class A for electrostatic discharge.
- Zeros-setting at any position.

Item#	Range	Resolution	Accuracy
3230-1110*	0-24"/0-600mm	.0005"/.01mm	.002"/.05mm

* Limited Supply

With Wireless Transmitter

Item#	Range	Resolution	Accuracy
3230-4705	0-12"/0-300mm	.0005"/.01mm	.001"/.03mm
3230-4710	0-24"/0-600mm	.0005"/.01mm	.002"/.05mm

Replacement Clamp & Scriber (see Page 67 for Dimensions)
Replacement Battery (Item #4102-0030)

DIGITAL ELECTRONIC HEIGHT GAGES WITH WHEEL

- Large control panel.
- Beam is made of stainless steel.
- Fine adjustment.
- Inch/mm conversion.
- Zero setting.
- Carbide tipped scriber.
- Power: 1.5V SR44 battery.
- Ergonomic heavy duty base.

**INCH/METRIC
.0005"/.01MM
RESOLUTION**



Item#	Range	Accuracy
4300-0161	12"/300mm	+/- .002"/.04mm
4300-0162*	20"/500mm	+/- .002"/.05mm
4300-0163	24"/600mm	+/- .002"/.05mm

Replacement Battery (Item #4102-0030)

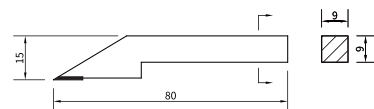
Dasqua®

DIGITAL ELECTRONIC DOUBLE-BEAM HEIGHT GAGE

- Heavy duty construction for industry use.
- Large LCD display.
- Zero-setting at any position.
- Double stainless beams assure high accuracy.
- Base is hardened, ground and lapped for maximum flatness.
- Carbide tipped scriber for sharp, clean lines.
- On/Off switch ABS/INC switchable and hold function.
- Micro-adjustable wheel for easy head displacement/precision positioning.



**INCH/METRIC
.0005"/.01MM
GRADUATION**



Replacement Scriber (Item# 3130-4115)

Item#	Range	Accuracy
3230-8105	0-12"/0-300mm	+/- 0.002"/0.04mm

SURFACE GAGES & GRANITE PLATES

STEEL SURFACE GAGES

- Fine adjustment.
- Retractable pins in base for working on flat surfaces.
- Bottom V-groove ground for cylindrical works.
- Spindle can be adjustable to any angle above or below base.
- Scriber head hardened has spring control.
- Base fully hardened throughout.
- Two posts included.



Item#	Post Length
4401-2012	4 & 7"
4401-2014	9 & 12"

HDF-TYPE SURFACE GAGE

- There are two frictional held gage pins in the base, which can be pushed down and used against the edge of a surface plate or T-slot for linear works.
- One handed fine adjustment.
- Steel base hardened and ground on one end and bottom surface.
- Bottom V-groove for cylindrical works.
- V groove on the front end which allows the spindle to adjust to any angle above or below the base
- Scriber head hardened.



Post Length
12 & 18" Included

4401-2018

SURFACE GAGE - Fine Tune On Top

- Knob on top of surface gage for easy adjustment.
- One handed fine adjustment.
- Steel base hardened and ground with magnet On/Off switch.
- Scriber head hardened.

Limited Supply!

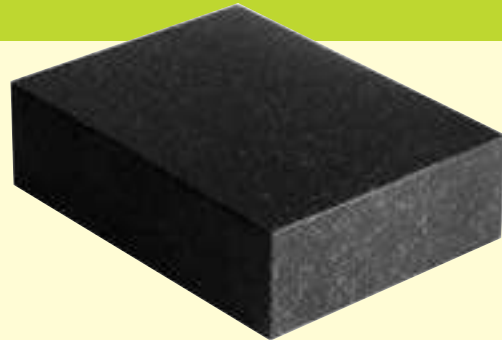
Post Length 12"

4401-2020



BLACK GRANITE SURFACE PLATES

- Surface plates are checked by auto-collimator for overall accuracy assurance.
- Granite surface plates meet or exceed Federal Specifications GGG-P-463C.



INCLUDES CERTIFICATE OF INSPECTION. NOT NIST TRACEABLE

Grade: A • Ledge: 0

Item#	Size	Accuracy	Wt. (lbs)
4401-1812	18 x 12 x 3"	±.000050"	80
4401-2418	24 x 18 x 3"	±.000075"	150

Item#	Size	Accuracy	Wt. (lbs)
4401-3624	36 x 24 x 4"	±.0001"	495
4401-4836	48 x 36 x 6"	±.0002"	1200

Please let us know if you require calibration

Grade: B • Ledge: 0

Item#	Size	Accuracy	Wt. (lbs)
4401-1596	6 x 6 x 2"	±.0001"	10
4401-1597	6 x 8 x 2"	±.0001"	12
4401-1598	12 x 8 x 2"	±.0001"	20
4401-1599	12 x 9 x 2"	±.0001"	26
4401-0011	12 x 9 x 3"	±.0001"	40

Item#	Size	Accuracy	Wt. (lbs)
4401-0012	18 x 12 x 3"	±.0001"	80
4401-0013	24 x 18 x 3"	±.00015"	150
4401-0014	36 x 24 x 4"	±.0002"	495
4401-1604	48 x 36 x 6"	±.0004"	1200
4401-1607	48 x 72 x 6"	±.0004"	2480

GRANITE SURFACE PLATE STANDS

- Overall working height: 36"
- Made of heavy-gauge steel with durable baked enamel finish.
- Assembly required.
- Stand comes with leveling screws



For 0 Ledge

Item#	For Plate Size	Wt. (lbs)
4401-1301	24 x 18"	64
4401-1401	36 x 24"	82
4401-1602	48 x 36"	126
4401-1608	48 x 72"	225

GAGE BLOCK SETS & ACCESSORIES

Pro-Series RECTANGULAR STEEL GAGE BLOCK SETS



- Meets or exceeds Federal GGG-G-15C.
- Surface hardness: HRC 64
- Made of the highest quality tool steel.
- Complete with manufacturer's calibration or certificate.
- With fitted wooden case with sizes labeled.



81pc Set, Grade AS-2
4101-0022

Offering N.I.S.T. Traceable Calibration Conforms to

- MIL-STD 45662A
- GGG-G-15C
- ISO/IEC 17025 Accredited
- ISO 9000, 10012-1
- ANSI-NCSL Z540-1
- ISO GUIDE 25 Certified



ACCURACY

Grade AS-0= Grade 2(A1) : +4/-2 millionth
Grade AS-1= Grade 3(B1): +8/-4 millionth
Grade AS-2= Grade B: ± 50 millionth

Item#	No. of Blocks	Grade	Blocks Included in All Sets
4101-0001	81pc	AS-0	9 Blocks: .1001" thru .1009" step of .0001"
4101-0021	81pc	AS-1	49 Blocks: .101" thru .149" step of .001"
4101-0022	81pc	AS-2	19 Blocks: .050" thru .950" step of .050"
NIST Calibration Certificate 81pc/Set			4 Blocks: 1.000" thru 4.000" step of 1.000"
4101-0002	36pc	AS-0	10 Blocks: .1000" thru .1009" step of .0001"
4101-0004	36pc	AS-2	9 Blocks: .101" thru .109" step of .001"
NIST Calibration Certificate 36pc/Set			9 Blocks: .110" thru .190" step of .010"
			8 Blocks: .050, .200, .300, .400, .500, 1.0, 2.0 & 4.0"

Dasqua® 81PC RECTANGULAR CALIBRATION GAGE BLOCK SETS



- Precision ground, mirror polish, heat treatment and cryogenic treatment for all measuring surfaces.
- Stable dimensions with high accuracy, low surface roughness, high wringing force.
- Provided with Etched Aluminum case
- Used to calibrate and adjust measuring equipment precision instruments, machine and fixtures and to standardize the measurement of length in manufacturing.
- Made of premium hardened steel. High-carbon, high-chrome steel provides high hardness HRC63 and wear resistance.
- Stable dimensions with high accuracy, low surface roughness, high wringing force.
- Strictly made in accordance with DIN ISO 3650.
- Precision ground, mirror polish, heat treatment and cryogenic treatment of all measuring surfaces.
- Certificate of accuracy is furnished.
- Edges are slightly bevelled for protection.
- Each block is serialized and marked for easy identification.

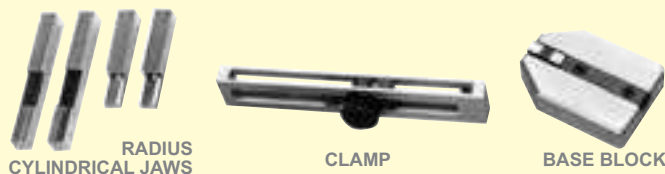
ACCURACY		
Length Range (L)	AS 0(in.)	AS 1 (in.)
L<0.05"	4	6
0.05<L-0.4"	4	6
0.45<L-1"	4	6
1<L-2"	4	6
2<L-3"	4	6
3<L-4"	5	8

Grade 0: mainly used in calibration laboratory by specialized inspection staff, as reference standards for calibration of high precision measuring equipment and accuracy lower than 1/2 of accuracy of gauge blocks.
Grade 1: mainly used in laboratory to inspect high precision workpieces, gauge blocks and measuring equipment.

Item#	Grade	Pcs/Set	Nominal Size	Steps	Pieces
6111-3281	AS 1	81	0.05"	/	1
			0.1000-0.1009"	0.0001"	10
			0.101-0.149"	0.001"	49
6110-3281	AS 0		0.150-0.950"	0.05"	17
			1.000-4.000"	1.000"	4

RECTANGULAR GAGE BLOCK ACCESSORIES

- Made with gage block accuracy.
- Base block's mounting surface lapped flat and parallel with base.



Item#	Description
4101-0601	Base Block 4x2.750x1/7"
4101-0606	Clamp 4" capacity
4101-0607	Clamp 8" capacity
4101-0610	Radius 0.0787" Cylindrical Jaws (pair)
4101-0611	Radius 0.200" Cylindrical Jaws (pair)
4101-0612	Radius 0.750" Cylindrical Jaws (pair)

WOOD CASE FOR 81PC RECTANGULAR GAGE BLOCK SETS

- Fits any grade.
- Well made wood case with high quality hardware.
- Insert is perfect fit each block.
- Clear sizes labeled.



SIZES LABELED	
9 Blocks	.1001" thru .1009" step of .0001"
49 Blocks	.101" thru .149" step of .001"
19 Blocks	.050" thru .950" step of .050"
4 Blocks	1.000" thru 4.000" step of 1.000"
10 Blocks	.1000" thru .1009" step of .0001"
9 Blocks	.101" thru .109" step of .001"
9 Blocks	.110" thru .190" step of .010"
8 Blocks	.050, .200, .300, .400, .500, 1.0, 2.0 & 4.0"

CASE ONLY
4101-0099

METRIC RECTANGULAR STEEL GAGE BLOCK SETS

- Fitted case supplied.
- Meets or exceeds JS Standard.
- Furnished with manufacturer's calibration or certificate.
- Each block has a series no.
- Made of the highest quality tool steel.

Nominal Size (mm)	ACCURACY	
	JIS 1 Tolerances in Microns (0.001mm)	JIS 2
10 or Less	±0.20	±0.45
10~25	±0.30	±0.60
25~50	±0.40	±0.80
50~75	±0.50	±1.00
75~100	±0.60	±1.20

Offering N.I.S.T. Traceable Calibration Conforms to

- MIL-STD 45662A
- GGG-G-15C
- ISO/IEC 17025 Accredited
- ISO 9000, 10012-1
- ANSI-NCSL Z540-1
- ISO GUIDE 25 Certified



Item#	No. of Blocks	Grade	Blocks Included in All Sets
4101-1041	87pc	JIS 1	9Blocks: 1.001~1.009 Step of 0.001mm 49Blocks: 1.01~1.49 Step of 0.01mm
4101-1042	87pc	JIS 2	19Blocks: 0.5~9.5 Step of 0.5mm 10Blocks: 10~100 Step of 25mm

NIST Calibration Certificate
87pc/Set

81PC STEEL SQUARE GAGE BLOCK SETS

- Each block with center hole threaded.
- Meet or exceeds U.S. Federal specification GGG - G - 15C.
- Complete with manufacturer's calibration or certification.
- Made of the highest quality tool steel.
- Surface Hardness: HRC 64
- With sturdy fitted wooden case.
- With center hole.

Offering N.I.S.T. Traceable Calibration Conforms to

- MIL-STD 45662A
- GGG-G-15C
- ISO/IEC 17025 Accredited
- ISO 9000, 10012-1
- ANSI-NCSL Z540-1
- ISO GUIDE 25 Certified



ACCURACY	
Grade AS-0= Grade 2(A):	+4/-2 millionth
Grade AS-1= Grade 3(B):	+8/-4 millionth
Grade AS-2= Grade B:	± 50 millionth

81pc Set
Grade AS-2 (Grade B)
4101-0052

INDIVIDUAL RECTANGULAR GAGE BLOCKS

Offering N.I.S.T. Traceable Calibration Conforms to

- MIL-STD 45662A
- GGG-G-15C
- ISO/IEC 17025 Accredited
- ISO 9000, 10012-1
- ANSI-NCSL Z540-1
- ISO GUIDE 25 Certified

- Grade AS-0 (Grade 2(A))
- Each block is supplied with a manufacturer's certificate



Tolerance	
0-1"	+0.00004/-0.00002"
2"	+0.00008/-0.00004"
3"	+0.00010/-0.00005"
4"	+0.00012/-0.00006"

Item#	Size (Inch)
4101-0701	0.0500
4101-0702	0.1000
4101-0703	0.1001
4101-0704	0.1002
4101-0705	0.1003
4101-0706	0.1004
4101-0707	0.1005
4101-0708	0.1006
4101-0709	0.1007
4101-0710	0.1008
4101-0711	0.1009
4101-0712	0.101
4101-0713	0.102
4101-0714	0.103
4101-0715	0.104
4101-0716	0.105
4101-0717	0.106
4101-0718	0.107
4101-0719	0.108
4101-0720	0.109
4101-0721	0.110
4101-0722	0.111
4101-0723	0.112
4101-0724	0.113
4101-0725	0.114
4101-0726	0.115
4101-0727	0.116
4101-0728	0.117
4101-0729	0.118
4101-0730	0.119
4101-0731	0.120
4101-0732	0.121
4101-0733	0.122
4101-0734	0.123
4101-0735	0.124
4101-0736	0.125
4101-0737	0.126
4101-0738	0.127

Item#	Size (Inch)
4101-0739	0.128
4101-0740	0.129
4101-0741	0.130
4101-0742	0.131
4101-0743	0.132
4101-0744	0.133
4101-0745	0.134
4101-0746	0.135
4101-0747	0.136
4101-0748	0.137
4101-0749	0.138
4101-0750	0.139
4101-0751	0.140
4101-0752	0.141
4101-0753	0.142
4101-0754	0.143
4101-0755	0.144
4101-0756	0.145
4101-0757	0.146
4101-0758	0.147
4101-0759	0.148
4101-0760	0.149
4101-0761	0.150
4101-0766	0.200
4101-0767	0.250
4101-0768	0.300
4101-0769	0.350
4101-0770	0.400
4101-0771	0.450
4101-0772	0.500
4101-0773	0.550
4101-0774	0.600
4101-0775	0.650
4101-0776	0.700
4101-0777	0.750
4101-0778	0.800
4101-0779	0.850
4101-0780	0.900
4101-0781	0.950
4101-0782	1.000
4101-0783	2.000
4101-0784	3.000
4101-0785	4.000

INDIVIDUAL SQUARE GAGE BLOCKS

- Grade AS-0 (Grade 2(A)) : +4/-2 millionth
- Each block is supplied with a manufacturer's certificate

Tolerance	
0-1"	+0.00004/-0.00002"
2"	+0.00008/-0.00004"
3"	+0.00010/-0.00005"
4"	+0.00012/-0.00006"

Limited Supply!



EACH BLOCK HAS 1/4" DIA. HOLE

Item#	Size (Inch)	Item#	Size (Inch)	Item#	Size (Inch)
4101-0903	.1001	4101-0930	.119	4101-0956	.145
4101-0904	.1002	4101-0931	.120	4101-0957	.146
4101-0905	.1003	4101-0932	.121	4101-0958	.147
4101-0906	.1004	4101-0933	.122	4101-0959	.148
4101-0907	.1005	4101-0934	.123	4101-0960	.149
4101-0908	.1006	4101-0935	.124	4101-0961	.150
4101-0909	.1007	4101-0936	.125	4101-0966	.200
4101-0910	.1008	4101-0937	.126	4101-0967	.250
4101-0911	.1009	4101-0938	.127	4101-0968	.300
4101-0912	.101	4101-0939	.128	4101-0969	.350
4101-0913	.102	4101-0940	.129	4101-0970	.400
4101-0914	.103	4101-0941	.130	4101-0971	.450
4101-0915	.104	4101-0942	.131	4101-0972	.500
4101-0916	.105	4101-0943	.132	4101-0973	.550
4101-0917	.106	4101-0944	.133	4101-0974	.600
4101-0918	.107	4101-0945	.134	4101-0975	.650
4101-0919	.108	4101-0946	.135	4101-0977	.750
4101-0920	.109	4101-0947	.136	4101-0978	.800
4101-0921	.110	4101-0948	.137	4101-0979	.850
4101-0922	.111	4101-0949	.138	4101-0980	.900
4101-0923	.112	4101-0950	.139	4101-0981	.950
4101-0924	.113	4101-0951	.140	4101-0982	1.000
4101-0925	.114	4101-0952	.141	4101-0983	2.000
4101-0926	.115	4101-0953	.142	4101-0984	3.000
4101-0927	.116	4101-0954	.143	4101-0985	4.000
4101-0929	.118	4101-0955	.144		

1-2-3 BLOCKS

PRECISION 1-2-3 BLOCKS SETS

- Heat treated and case hardened to HRC 55 to 60.
- Hardened and precision ground on all 6 sides of each block.
- Accuracy with squareness on all sides within .0002" per inch.
- 23 holes consists of 5 tapped holes (3/8" - 16 for 1-2-3) for clamping and 18 untapped holes drilled.
- Cross drilling design gives minimum weight and maximum strength.
- Dimensions: 1-2-3 is 1 x 2 x 3"

1-2-3 BLOCK SET
3402-0005

TiN Coated
1-2-3 BLOCK SET
3402-0905

MATCHED PAIRS
AND SOLD AS PAIR



5 Tapped Holes & 18 Untapped Through Holes

Dasqua® 1-2-3 BLOCKS

- Supplied with durable fitted ABS case.
- Product Dimensions: 1" x 2" x 3".
- Heat treated and case hardened to HRC 58-62.
- Hardened and precision ground on all 6 sides of each block.
- 23 holes consists of 5 tapped holes that are 3/8-16 for clamping and 18 untapped holes
- Sold in pairs.
- Tolerance of size ±.0002", Parallelism 0.0002", Height of pair 0.0002".
- Cross drilling design gives minimum weight and maximum strength.



Item#	Size	Squareness
8407-0005	1 x 2 x 3"	0.0001"/1"
8407-0010	1 x 2 x 3"	0.0003"/1"

ULTRA PRECISION 8PC 1-2-3 BLOCKS & SCREWS SET

- Hardened and precision ground on all 6 sides of each block.
- Accuracy with Squareness on all sides within .0001 per inch.
- 23 holes consist of 5 (3/8"-16) tapped holes for clamping and 18 untapped holes drilled .
- Supplied with fitted case.

5 TAPPED HOLES & 18 UNTAPPED THROUGH HOLES

MATCHED PAIRS

8 PC SET
3402-0055

INCLUDES
Matched pair of 1-2-3 blocks with 23 holes,
5pc of 3/8 - 16 Socket Screws, Hex key



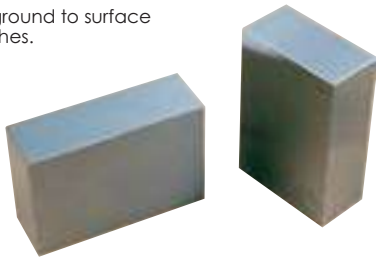
1-2-3 BLOCKS & 2-4-6 BLOCKS

ULTRA PRECISION 1-2-3 BLOCKS WITH NO HOLE

- Hardened to RC 58-60 and ground to surface finish from 6 to 10 micron inches.
- Dimensions: 1 x 2 x 3 .

MATCHED PAIRS AND SOLD AS PAIR

3402-0058

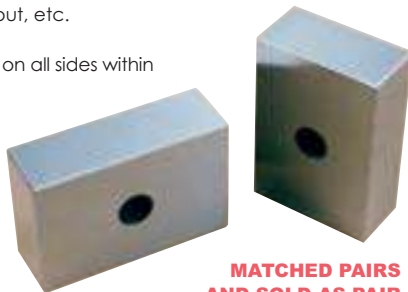


ULTRA PRECISION 1-2-3 BLOCKS WITH ONE HOLE

- For precision grinding, layout, etc.
- Drilled Hole Size: .500 ~.501
- Accuracy with squareness on all sides within .0001 per inch.
- Hardened to RC 58-60 and ground to surface finish from 6 to 10 micron inches.
- Dimensions: 1 x 2 x 3"

3402-0054

MATCHED PAIRS AND SOLD AS PAIR



ULTRA PRECISION 1-2-3 BLOCKS WITH 11 HOLES



5 TAPPED HOLES & 6 UNTAPPED THROUGH HOLES

- Hardened and precision ground on all 6 sides of each block.
- Accuracy with squareness on all sides within .0001 per inch.
- Consists of 5 tapped holes 5/16 - 18 for clamping and 6 untapped holes drilled through.
- Dimensions: 1 x 2 x 3 ."

MATCHED PAIRS AND SOLD AS PAIR

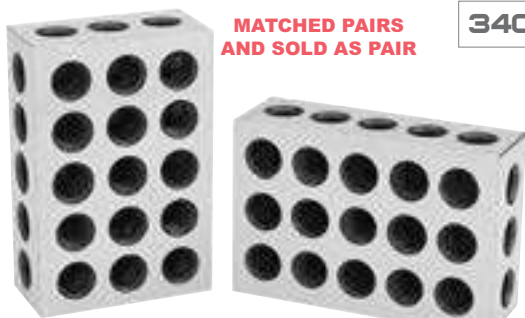
3402-0051

PRECISION 2-3-4 BLOCKS SET

- Hardened and precision ground on all 6 sides of each block.
- Accuracy with squareness on all sides within .0001" per inch.
- 23 holes consist of 5 (3/8"-16) tapped holes for clamping and 18 untapped holes drilled.
- Dimensions: 2 x 3 X 4".

MATCHED PAIRS AND SOLD AS PAIR

3402-0906



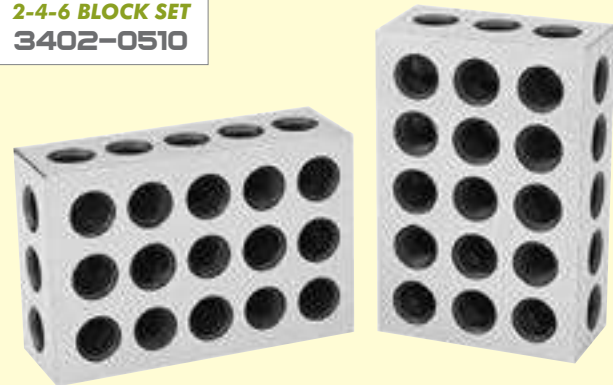
5 TAPPED HOLES & 18 UNTAPPED THROUGH HOLES

PRECISION 2-4-6 BLOCKS SET

- Heat treated and case hardened to HRC 55 to 60.
- Hardened and precision ground on all 6 sides of each block.
- Accuracy with squareness on all sides within .0002" per inch.
- 23 holes consists of 5 tapped holes (5/8"-11 for 2-4-6) for clamping and 18 untapped holes drilled.
- Cross drilling design gives minimum weight and maximum strength.
- Dimensions: 2-4-6 is 2 x 4 x 6"

MATCHED PAIRS AND SOLD AS PAIR

2-4-6 BLOCK SET 3402-0510



5 TAPPED HOLES & 18 UNTAPPED THROUGH HOLES

36PC SPACE BLOCK SET

- Four connecting screws 1/4"-28 are included to make any length desired.
- ID is threaded 1/4"-28.
- Meets or exceeds federal specifications.
- Work surface hardened to 57-60 RC.
- Made of precision tool steel.
- Individually marked.
- Complete in fitted case.

ACCURACY: ±0.0001"

Set Includes:

- 9 Blocks: .101 to .109 by .001"
- 15 Blocks: .050 to .190 by .010"
- 9 Blocks: .200 to 1.000 by .100"
- 2 Blocks: .0625" and .125"
- 1 Extra Block: 1.000"

3101-0003



SINE BARS

- For angles set up by using Sine Bar with 1-2-3 Blocks or Gage Block.
- Parallelism: 0.0004".
- Working face accuracy 0.00003"/ per inch.
- Rolls center distance accuracy 0.0002".
- Flange on the end for the resting of workpiece.

5x1"(LxW) 3402-1205

2.5 x1"(LxW) 3402-1203



1-2-3 BLOCK NOT INCLUDED

PRECISION MEASURING TOOLS

PARALLELS & SETS

10 PAIR 1/8" PRECISION PARALLEL SETS

- Made from fine quality tool steel stress relieved against distortion, precision ground and hardened.
- Complete with fitted durable plastic or wooden case.
- 2 holes in each parallel.

1/8X6" SET
3900-3010
PLASTIC CASE



3900-3010 Shown



DIMENSIONS	
Thick	Ht. x Long
1/8	x 1/2 x X"
1/8	x 5/8 x X"
1/8	x 3/4 x X"
1/8	x 7/8 x X"
1/8	x 1 x X"
1/8	x 1-1/8 x X"
1/8	x 1-1/4 x X"
1/8	x 1-3/8 x X"
1/8	x 1-1/2 x X"
1/8	x 1-5/8 x X"

- TOLERANCE: PARALLEL TO 0.0003 ON 2 SIDES, TOP AND BOTTOM.
- DIMENSIONS: WITHIN 0.001" ALLOWANCE.



3900-3012 Shown



1/8X3" SET
3900-3012
WOODEN CASE

1/8X4" SET
3900-3002
WOODEN CASE

1/8X5" SET
3900-3013
WOODEN CASE

PRECISION MEASURING TOOLS

Dasqua® 1/8" PRECISION PARALLEL SET WITH ALUMINUM CASE

- Made of premium alloy steel, hardened, stress-relieved, precision ground, used in pairs.
- With high perpendicularity, parallelism, dimension accuracy, convenient to use and maintain.
- Easy to operate during the drilling, milling, assembling work, convenient to clamp workpiece, and provide a reliable and accurate position for the workpiece.
- Accuracy: Height ± 0.0004 ", thickness ± 0.0004 ", use in pairs: ± 0.0004 " (height/thickness).
- Edges are slightly beveled.
- Superior surface finish: Ra 0.4um/16uin, high hardness: HRC56-61, long service life.
- Matched pairs are marked with sizes.
- Fitted aluminum case.



Item#	Set	Length x Thickness	Height
8204-0015	10 Pairs	1/8 x 6"	1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-5/8"

Dasqua® PREMIUM MAGNETIC PARALLEL SET WITH HANDLE



- Higher accuracy from Dasqua.
- Height tolerance: ± 0.005 mm, Width tolerance: 0.01mm.
- Hardness: 55-60HRC.
- Newly designed embed magnets leaving your hands for clamping and setting up, reduce the clamping time significantly.

Patented Design for Easy Installation and Disassembly



Item#	Set (Pairs)	Length	Width	Thickness
1801-0115	5	5"/150mm	1"/25mm, 1.37"/35mm, 1.57"/40mm, 1.77"/45mm, 1.85"/47mm	0.1"/2.5mm

PRECISION PARALLEL SETS

- Made from fine quality tool steel stress relieved against distortion, precision ground and hardened.
- These precision parallels are recommended for layout work, standards and set-up.
- The holes are designed for easier handling and set-ups.
- Hardness: Case hardened RC 55 to 62 on 2 sides, top and bottom only.
- Complete with fitted durable plastic case.
- TOLERANCE: PARALLEL TO 0.0003 ON 2 SIDES, TOP AND BOTTOM.
- DIMENSIONS: WITHIN 0.001" ALLOWANCE.



**3/16", 4 PAIR SET
3900-3004**

DIMENSIONS
3/16 x 1 x 6"
3/16 x 1-1/4 x 6"
3/16 x 1-1/2 x 6"
3/16 x 1-3/4 x 6"

**1/2", 8 PAIR SET
3900-3008**

DIMENSIONS
1/2 x 7/8 x 6"
1/2 x 1 x 6"
1/2 x 1-1/8 x 6"
1/2 x 1-1/4 x 6"
1/2 x 1-3/8 x 6"
1/2 x 1-1/2 x 6"
1/2 x 1-5/8 x 6"
1/2 x 1-3/4 x 6"

DIMENSIONS
1/4 x 3/4 x 6"
1/4 x 7/8 x 6"
1/4 x 1 x 6"
1/4 x 1-1/8 x 6"
1/4 x 1-1/4 x 6"
1/4 x 1-3/8 x 6"
1/4 x 1-1/2 x 6"
1/4 x 1-5/8 x 6"
1/4 x 1-3/4 x 6"

**1/4", 9 PAIR SET
3900-3009**

Item 3900-3014
Shown

**1/2", 4 PAIR SET
3900-3014**



INDIVIDUAL PRECISION PARALLELS

- Made from fine quality tool steel stress relieved against distortion, precision ground and hardened.
- 2 Holes in each parallel, are designed for easier handling and set-ups.
- Tolerance: Parallel to 0.0003 on 2 sides, top and bottom.
- Dimensions: Within 0001" allowance.



SOLD BY PAIR

Item#	DIMENSION (ThinkxHt.xLong)
3900-3061	1/8 x 1/2 x 6"
3900-3062	1/8 x 5/8 x 6"
3900-3063	1/8 x 3/4 x 6"
3900-3064	1/8 x 7/8 x 6"
3900-3065	1/8 x 1 x 6"
3900-3066	1/8 x 1-1/8 x 6"
3900-3067	1/8 x 1-1/4 x 6"
3900-3068	1/8 x 1-3/8 x 6"

Item#	DIMENSION (ThinkxHt.xLong)
3900-3069	1/8 x 1-1/2 x 6"
3900-3070	1/8 x 1-5/8 x 6"
3900-3075	1/4 x 3/4 x 6"
3900-3077	1/4 x 1 x 6"
3900-3079	1/4 x 1-1/4 x 6"
3900-3085	1/2 x 1 x 6"
3900-3086	1/2 x 1-1/8 x 6"
3900-3087	1/2 x 1-1/4 x 6"

ULTRA PRECISION INSPECTION PARALLEL

- Parallels are furnished by pair.
- Made of high grade tool steel, stabilized and thoroughly hardened to HRC 58.
- Surface finish to 16 microninches.
- High precision - 4 faces accuracy within .00015" per 6 inches

PRICED IN PAIR



Item#	Size	Weight (lbs.)
3900-3049	1 x 2 x 12"	14

PARALLELS & ANGLE BLOCKS

9PC UNIVERSAL ANGLE BLOCK SET



- HRC 45 to 50 heat treatment.
- Angle Accuracy: $\pm 5'$
- Combination V-block and angle plate for rapid, easy setting.
- No sine vise, sine plate, angle vise, chart or gage block needed.

3402-0018

Set Includes

V-Blocks: 10, 15, 30°
Angle plates: 0.5, 1, 2, 3, 4, 5°

BLOCK SIZE: 2.75 L x 1.18 W

17PC PRECISION ANGLE BLOCK SET

- Get quick setups for fringing various angles from 1/4 to 45°
- Hardened steel
- With fitted case

ACCURACY: .0003"

**17 PC SET
3402-0019**

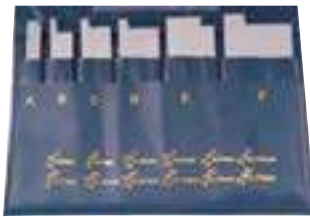
**BLOCK SIZE:
3" Length x 1/4" Thickness**

INCLUDES

1/4, 1/2, 1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 35, 40, & 45° and 2 riser blocks



6PC ADJUSTABLE PARALLEL SET



- Made of precision ground tool steel.
- Easily expanded to size in openings for quick reference measurements.
- Lock desired size by set screws provided.
- Exact size can be set with micrometer.
- Furnished in fitted plastic case with size range markings.

3900-0029

DIMENSIONS

3/8~1/2", 1/2~11/16", 11/16~15/16", 15/16~1-5/16", 1-5/16~1-3/4", 1-3/4~2-1/4"



1/32" ULTRA THIN STEEL PARALLEL SET

- Length: 6"
- Parallelism: $\pm .0001"$
- Paired $\pm .0001"$ in height.
- Hardness: RC 50-55
- Thickness: 1/32"
- Made from fine quality tool steel, stress relieved against distortion, precision ground, hardened and blue finished.

**20 PAIR SET
3900-3032**

DIMENSIONS

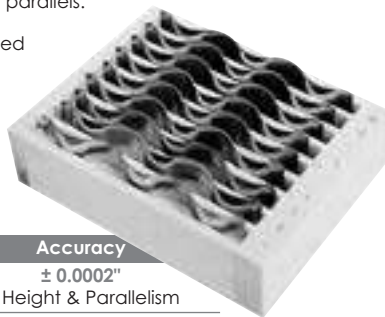
- 1/32 x 1/2 x 6"
- 1/32 x 9/16 x 6"
- 1/32 x 5/8 x 6"
- 1/32 x 11/16 x 6"
- 1/32 x 3/4 x 6"
- 1/32 x 13/16 x 6"
- 1/32 x 7/8 x 6"
- 1/32 x 15/16 x 6"
- 1/32 x 1 x 6"
- 1/32 x 1-1/16 x 6"
- 1/32 x 1-1/8 x 6"
- 1/32 x 1-3/16 x 6"
- 1/32 x 1-1/4 x 6"
- 1/32 x 1-5/16 x 6"
- 1/32 x 1-3/8 x 6"
- 1/32 x 1-7/16 x 6"
- 1/32 x 1-1/2 x 6"
- 1/32 x 1-9/16 x 6"
- 1/32 x 1-5/8 x 6"
- 1/32 x 1-11/16 x 6"



9 PAIR WAVY PARALLEL SET

- For use on: Precision clamping of parts in drilling, boring, milling, grinding, assembly work, etc.
- Can readily be used as elastic shims.
- Thin and fragile workpieces can be secured without damage by utilizing the spring pressure of these parallels.
- Made of high quality spring steel, hardened, stress relieved and precision ground.
- Fitted case.

3900-2909



Range

1/2" ~ 1-1/2"

in 1/8" Height Increments

Accuracy

$\pm 0.0002"$

in Height & Parallelism

10PC ANGLE BLOCKS SET

**BLOCK SIZE:
3" Length x 1/4" Thickness**



- Simple, quick angle set ups.
- Manufactured of tool steel-hardened, stabilized and ground.
- Angle accuracy: 20'.
- Fitted case.

3402-0015

INCLUDES

1, 2, 3, 4, 5, 10, 15, 20, 25, 30°

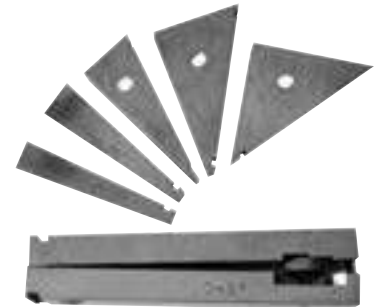
TANGENT BAR & ANGLE GAGE BLOCK SET

- Made of tool steel hardened and precision ground
- Tangent bar is micrometric

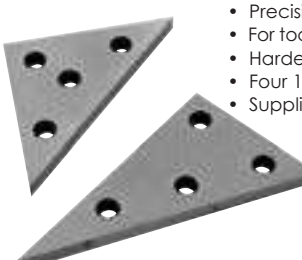
INCLUDES:

one Tangent Bar, one each of Angle Block 5, 10, 20, 30, 45°

**6 PC SET
3402-0962**



2PC SOLID ANGLE PLATE SET



- Precision ground angles.
- For tooling setups, production and inspection.
- Hardened and ground steel.
- Four 11/32" holes.
- Supplied in fitted case.

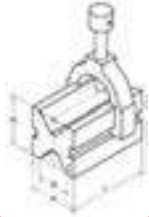
3402-0016

Includes

1pc- 45° x 45° x 90° (3 x 3 x 5/16)
1pc- 30° x 60° x 90° (2 x 3-3/8 x 5/16)

V-BLOCKS & CLAMPS SET

- 90° V groove accuracy are central, parallel and square with all surfaces within 0.0003".
- Case is hardened and ground.
- Clamps are included.

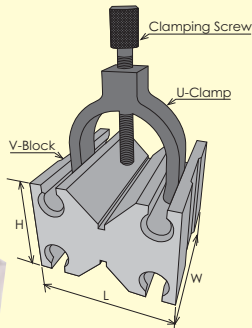


SUPPLIED IN MATCHED PAIR

Item#	Vee Capacity	Dimension (W x H x L)
3402-0952	1"	1-1/4 x 1-1/4 x 1-5/8"
3402-0951	1"	1-3/8 x 1-5/8 x 1-3/4"
3402-0953	1-1/2"	1-5/8 x 1-3/4 x 2-3/4"
3402-0954	1-1/2"	1-3/4 x 2-1/2 x 2-3/4"
3402-0955	2-1/8"	2-3/4 x 3-1/2 x 4-7/8"

Pro-Series V-BLOCK WITH CLAMP

- Made of hardened tool steel machined & ground in pairs to close tolerance.
- A versatile tool for Toolmakers & Machinists
- Clamps can easily slide in & are included.
- Both sides have different Vee sizes



MADE IN
TAIWAN

SUPPLIED IN MATCHED PAIR

3402-0964	Small Vee		Large Vee		G.W.	
	W	H	L	Vee		
	2-1/2	1-3/4	2-3/4	1	1-3/16	6 lbs

Pro-Series Toolmaker's V-BLOCK SET

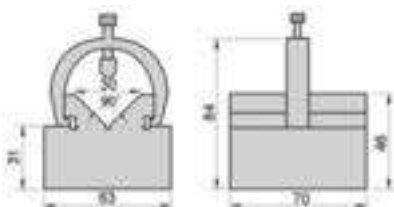
- Made of hardened tool steel precision machined & ground with high accuracy V groove. Tolerance 0.005mm.
- A versatile tool for Toolmakers & Machinists to check concentricity.
- Clamps can easily slide in & are included.
- Clamping range Ø3-20 mm.
- Height Deviation: 0.005mm
- Squareness: 0.005mm.



SOLD IN PAIR

Limited Supply!

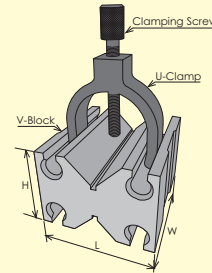
MADE IN
TAIWAN



3402-0940

Toolmaker's V-BLOCKS -Slot-In CLAMP

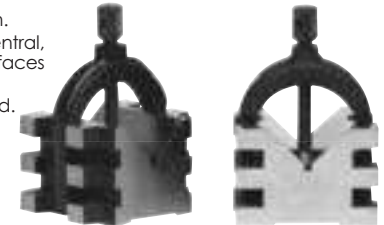
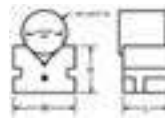
- Made of hardened & ground tool steel.
- Supplied in matched pair, machined to close tolerance.
- A versatile tool for Toolmakers & Machinists
- Clamps can easily slide in & are included.
- Both sides have different Vee sizes



Item #	W	H	L	Small Vee	Large Vee	G.W.
3402-0968	2-1/2	1-3/4	2-3/4	1	1-3/16	6 lbs.
3402-0970	3-1/2	2-3/4	4-7/8	1.22	1.38	24 lbs.

MULTI-USE V-BLOCKS & CLAMPS SET

- Stepped groove construction.
- 90° V groove accuracy are central, parallel and square with all surfaces within 0.0003".
- Case is hardened and ground.
- Clamps are included.



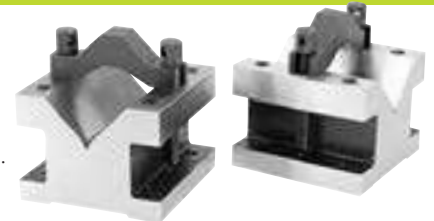
SUPPLIED IN MATCHED PAIR

Item#	Size (L x W x H)	Capacity	
		Round	Square
3402-0112	2.50 x 2.75 x 2.00"	2"	1-7/16"

Replacement Clamp (Item #3402-0115)

ULTRA PRECISION V-BLOCK & CLAMP SETS

- Guaranteed square parallel within .0002".
- Hardened & ground to RC 58-60.
- 90° Vee blocks.
- Supplied with bolts and clamps in wooden case.



SUPPLIED IN MATCHED PAIR

Item#	Length	(Inch) Width	Height
3402-0001	1-3/8	1-3/8	1-3/16
3402-0002	2-3/8	2-3/8	2
3402-0003	4-1/8	4-1/8	3-1/16

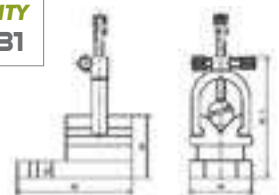
TOOLMAKER'S V-BLOCKS & CLAMP

- Blocks have four 3/8"-26 tapped holes, two in the base and one on each side for attachment to an angle iron. The angle iron holding the block can then be attached to a lathe faceplate or held by a magnetic chuck.

- Versatile tool for grinding, milling or drilling
- A clearance hole for drilling or removing dowel pins is provided in the block
- Blocks are hardened and precision ground
- Side screw supports the block and prevents tilting.



1-5/16" CAPACITY
3402-0981



V-BLOCKS

SUPER VEE BLOCK SET

- A unique and universal holding tool for small, miniature or intricate parts, used in conjunction with larger V-blocks
- Furnished with bridges to straddle long workpieces, allowing top hold down screw of V-block clamp to be utilized
- Hardened and high-precision ground
- With fitted case

SOLD AS PAIR



SQUARENESS & PARALLELISM: .0002"

INCLUDES

2 V-blocks:
 0.030~ .156" & .050~ .281" capacity
 2 bridges and 5 upper prisms:
 1/8, 5/32 & 3/16" capacity

3402-0958

Pro-Series STEEL V-BLOCK SETS

- Made of hardened & ground tool steel.
- Supplied in a matched pair.
- Machined to close tolerance.
- Accuracy: .00079"/per 4"
- Hardness: HRC 52.

Limited Supply!

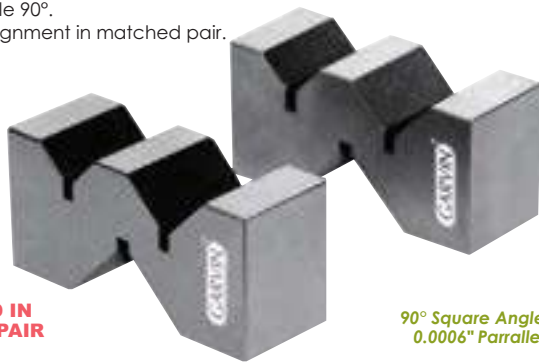


Unit: Inch

Item #	Length	Thickness	Height	Wt.	A	B	C	F	G	H
3402-1024	2.87	0.98	1.44	2.0 lbs.	0.39	0.87	0.71	1.57	0.71	0.31
3402-1025	3.94	1.42	2.36	6.5 lbs.	0.59	1.26	0.71	1.97	0.94	0.31

TRIPLE "V" STEEL V-BLOCKS SETS

- All sides hardened and precision ground parallel and square.
- "V" grooves ground central & parallel and square.
- Every angle 90°.
- Perfect alignment in matched pair.



SUPPLIED IN MATCHED PAIR

90° Square Angle
0.0006" Parallel

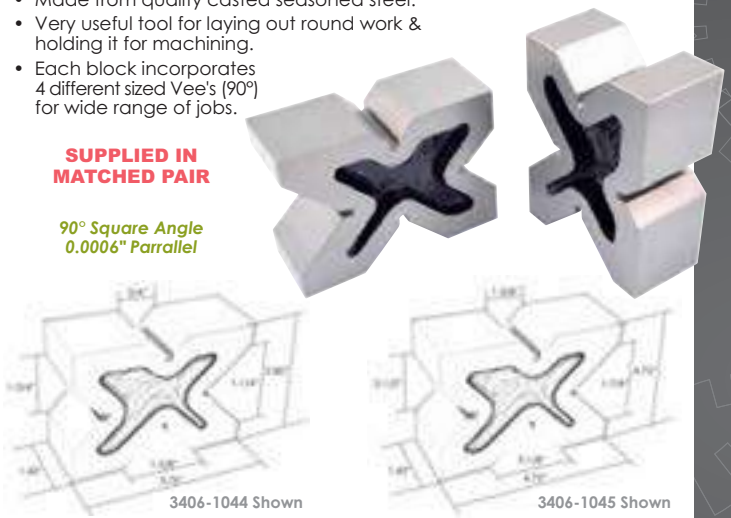
Item #	Length	(mm) Width	Height	Suitable for Dia.	Wt. (lbs.)
3406-1032	50	20	14	5~33	0.5
3406-1034	100	33	52	8~60	5.1
3406-1035	125	44	69	8~75	11.1

FOUR WAY V-BLOCK SETS

- Made from quality casted seasoned steel.
- Very useful tool for laying out round work & holding it for machining.
- Each block incorporates 4 different sized Vee's (90°) for wide range of jobs.

SUPPLIED IN MATCHED PAIR

90° Square Angle
0.0006" Parallel



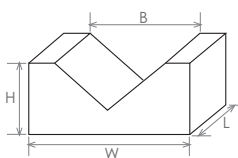
SQUARE & PARRALLEL .0008"

Item #	Length	(Inch) Thick	Height	Wt. (lbs)
3406-1044	3-3/4	1-3/8	2-3/4	5.4
3406-1045	4-3/4	1-3/8	4-3/4	11.8

ELONGATED STEEL V-BLOCK SETS

- All sides hardened and precision ground parallel and square.
- "V" grooves ground central & parallel and square.
- Perfect alignment in matched pair.
- Holds square and round work.

SUPPLIED IN MATCHED PAIR



90° Square Angle
0.0003" Parallel



Item#	W	(mm) H	L	Capacity B	Wt. (lbs)
3406-1017	40	30	75	5~40	2.4
3406-1019	44	40	100	5~55	5.2
3406-1023	65	55	200	5~75	19

STEEL V-BLOCKS SETS

- Made of tool steel, hardened and ground.
- Machined square and parallel to meet standard specifications.

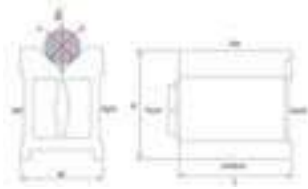
SUPPLIED IN MATCHED PAIR



Item#	A	B	(Inch) C	D	d	Wt. (lbs)
3402-1302	2"	1	1.26	0.90	0.24	1.1
3402-1303	3"	1.7	2.38	1.33	0.45	4.6
3402-1304	4"	2.2	2.66	1.66	0.54	8.3
3402-1305	5"	2.45	3.14	2.03	0.78	15.3
3402-1306	6"	3.1	3.52	2.52	0.93	25

Pro-Series MAGNETIC V-BLOCKS WITH SWITCH

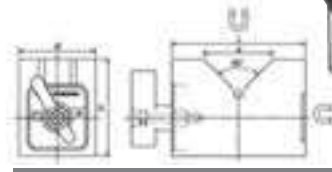
- Precision ground finished working surfaces.
- Ideal for scribing, grinding, measuring and machining round or irregular shape items.
- On/Off switch.



Item#	Dimensions			Vee Width	Power Pull (lbs)
	W	H	L		
3402-0995	2.13"	2.87"	2.76"	1.5"	66
3402-0997	2.36"	2.87"	4.29"	1.5"	77

ALUMINUM CAST MAGNETIC V-BLOCK SETS

- Holds cylindrical workpieces for grinding.
- 90° Vee blocks.
- Precision ground flat, square and parallel to 0.0005".
- Switch on/off.

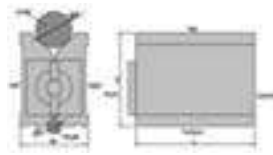


SUPPLIED IN MATCHED PAIR

Item#	Dimensions			Max. Hold Dia.	Power Pull Each (lbs)
	B	H	L		
3402-0890	1-1/2"	2"	2-3/4"	1.90"	33
3402-0900	2"	3"	4"	3.15"	44
3402-0902	2"	4"	6"	3.90"	50

MAGNETIC V-BLOCKS WITH SWITCH

- Precision ground finished working surfaces.
- Ideal for scribing, grinding, measuring and machining round or irregular shape items.
- On/Off switch.
- Two-centered 90° Vees.

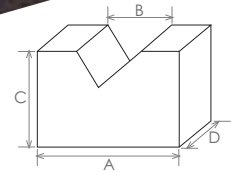


* Limited Supply

Item#	W	Dimensions		Power Pull (lbs)
		H	L	
3402-0990	2-3/4"	3-3/4"	3"	130
3402-0901	2-3/4"	3-3/4"	4"	250
3402-0992*	2-3/4"	3-3/4"	5"	275
3402-0993	3"	3-3/4"	6"	320

MATCHED GRANITE V-BLOCK SET

- Matched Granite V-Block Set
- 90° V-centered and parallel to bottom, two sides and ends.
- Application For Inspection and Calibration Operations.
- Grade A (0.0001"/6")
- Carrying case included.

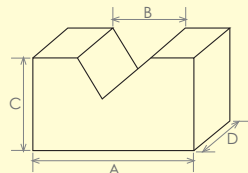


SUPPLIED IN MATCHED PAIR

Item#	Capacity (Dia.)		A	B	(mm) C	D	Squareness & Parallelism Accuracy	Wt. (lbs.)
	Min.	Max.						
3402-1312	5	63	63	38	63	63	.00012"	3.8

CAST IRON V-BLOCKS SETS

- Made of high quality casting, properly seasoned against distortion.
- Machined square and parallel to meet standard specifications.

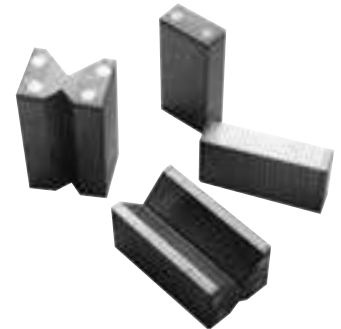


SUPPLIED IN MATCHED PAIR

Item#	Dimensions				Square & Parallel	Wt. (lbs)
	A	B	C	D		
3402-1000	2"	1-5/8"	1-3/8"	7/8"	0.0005"	2
3402-1001	3"	1-3/4"	2-3/8"	1-5/16"	0.0005"	3
3402-1002	4"	2-1/4"	2-5/8"	1-5/8"	0.0005"	5
3402-1003	5"	2-1/2"	3-1/8"	2"	0.0005"	8
3402-1006	6"	3-1/8"	3-1/2"	2-1/2"	0.0005"	13
3402-1007	7"	3-1/2"	4-1/2"	3"	0.0006"	27
3402-1008	8"	4-1/2"	5-1/2"	4"	0.0007"	44
3402-1010	10"	5"	6-5/8"	5"	0.001"	73
3402-1012	12"	6"	8"	7"	0.0012"	135

MAGNETIC V-BLOCKS & PARALLELS

- Universal-holds in any direction on the magnetic chuck.
- Aluminum cast.
- Ground all over.
- Blocks transmit magnetism, they are not magnetic.



V-BLOCKS:

- 90° Vee Capacity: Small Vee-1/2", Large Vee-2"

V-BLOCK & PARALLELS KIT 3402-0013

Item 3402-0006 & 3402-0009

FOR USE ON MAGNETIC CHUCK

	Item#	Length	Width	Height
SINGLE 90° V-BLOCK:	3402-0007	4-3/8"	2-3/8"	1-7/8"
MATCHED PAIR 90° V-BLOCK:	3402-0006	2"	2-3/8"	1-7/8"
MATCHED PAIR PARALLELS:	3402-0009	4"	2"	1"

ANGLE PLATES

0-60° PRECISION ANGLE BLOCKS

- For drilling, milling, and set up applications.
- 0-60° adjustable angle by locking the hex screw on the bottom.
- Squariness: - 0.0002".
- Angle accuracy: ±10'.
- Hardness: HRC 50-55.



1 x 1-1/4 x 3"
(W x H x L)
3402-0010

1-3/16 x 1-13/16 x 4"
(W x H x L)
3402-0011

PLANER AND SHAPER GAGE

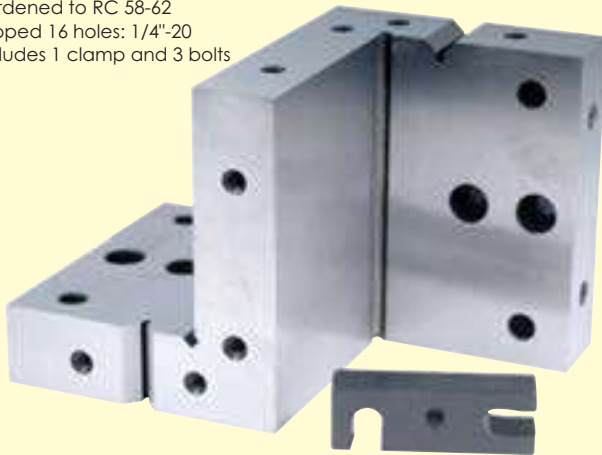
- Hardened and ground forged steel.
- Ground, flat and V ways assure accuracy.
- Both sides are ground square with working edges.
- In-built precision level.
- Base size: 5-1/4" long and 3/4" wide.
- Includes 3" extension rod.
- Supplied in wooden case.



Max. Range 6-1/4"
3402-0025

COMPOUND ANGLE PLATE

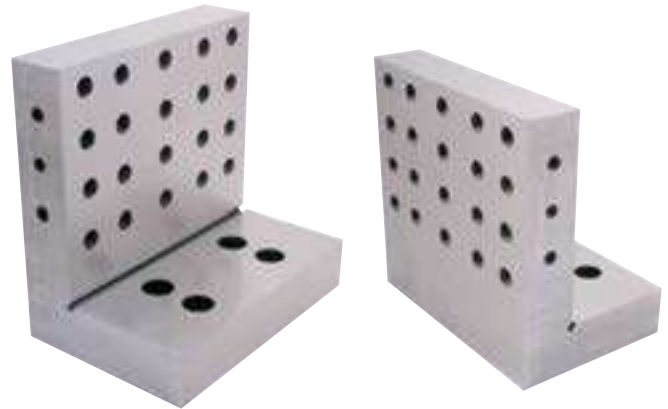
- Features ground vees for convenient holding of small round parts
- Ground flat, square and parallel within 0.0002"
- Wall dimension: 6"x4"x1"
- Solid 1 piece steel construction
- Hardened to RC 58-62
- Tapped 16 holes: 1/4"-20
- Includes 1 clamp and 3 bolts



Item #	Length	Wall Height	Thickness	Tapped Holes	W.t. lbs
3402-1101	6"	4"	1"	(16) 1/4"-20	12

ANGLE PLATES WITH BACK HOLES

- Solid, one piece angle plate is made from hardened tool steel
- Square and parallel within .0002"
- Precision ground finishing
- (4) Bolt Holes: 7/16" diameter



Item#	Dimension	Thread of tapped holes	W.t. (lbs.)
3402-2664	6x6x4x1-1/4"	(26) 1/4"-20	20

6 x 6 ULTRA PRECISION SINE PLATES



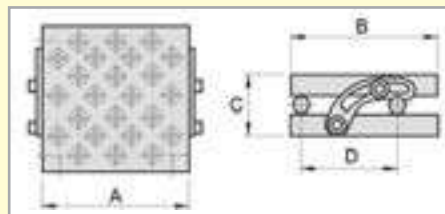
MADE IN TAIWAN

3800-5526

HHIP PRO-SERIES

SPECIFICATIONS

Capacity:.....	0-60°
Squareness:.....	within 0.0002"
Parallelism:.....	within 0.0002"
Center Distance of Rolls Accuracy:.....	within 0.0002"
Minute Angle Step on Gage Block Roll:.....	0.200"
Tapped holes:.....	1/4"-20 UNC
Size (B x A).....	6" x 6"
Height (C).....	2.36
Center Distance of Rolls (D).....	5"
No. of Tapped Hole.....	24
Wt. (lbs.).....	18



- Made of high grade tool steel hardened and precision ground HRC 55-58.
- Two hardened side rails and one locking strap included.

VALUE
3900-5526



STEEL RIGHT ANGLE PLATES

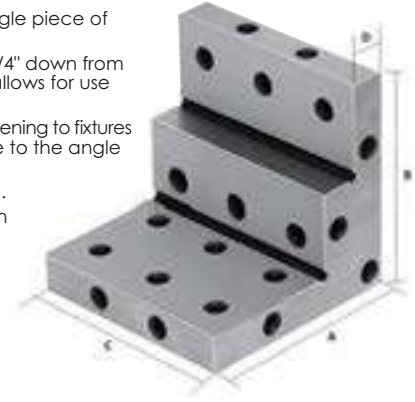
- Solid, one piece angle plate is made from hardened steel
- Square and parallel within 0.0002".
- Furnished with 1/4"-20 tapped holes



Item#	Size	Holes
3402-0443	4 x 4 x 3 x 1-1/8"	Yes
3402-1443	4 x 4 x 3 x 1-1/8"	No

STEPPED ANGLE PLATES

- Manufactured from a single piece of hardened tool steel.
- A convenient step of 1-1/4" down from the top and a 1/2" seat allows for use with smaller work pieces.
- Tapped holes allow for fastening to fixtures and clamping workpiece to the angle plate.
- Precision ground finishing.
- Square and parallel within 0.0002".



* Limited Supply

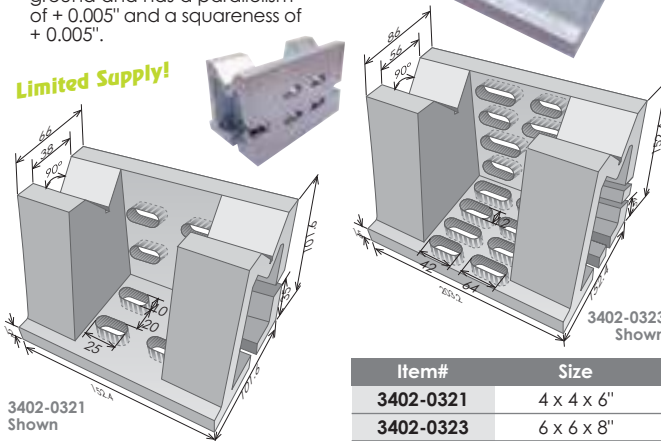
Item#	Dimension A x B x C x D	Thread of tapped holes
3402-0100*	3 x 3 x 3 x 1-1/2"	(20) 1/4"-20
3402-0101	4 x 4 x 4 x 1-1/4"	(20) 5/16"-18

V - ANGLE PLATES

- As the name rightly suggests it has dual usage as a vee block and an angle plate.
- Having a single piece close grained cast iron construction, which ensures rigidity.
- Casting are stress relieved.
- Useful for easy operations in set up jobs.
- The angle block is precision ground and has a parallelism of + 0.005" and a squareness of + 0.005".



Limited Supply!



Item#	Size
3402-0321	4 x 4 x 6"
3402-0323	6 x 6 x 8"

PRECISION GROUND ANGLE PLATES

- Webbed end
- Made from high tensile cast iron normalized and stress relieved.
- Precision ground finishing: Square and parallel to .0005" per 6" on two working surfaces.



* Limited Supply

Item#	(Inch)		
	A	B	C
3402-1052	2	2	2
3402-1053	3	3	3
3402-1054	4	4	5
3402-1055*	5	5	5
3402-1056	6	6	6
3402-1058	8	8	8
3402-1060	10	10	10
3402-1062	12	12	12

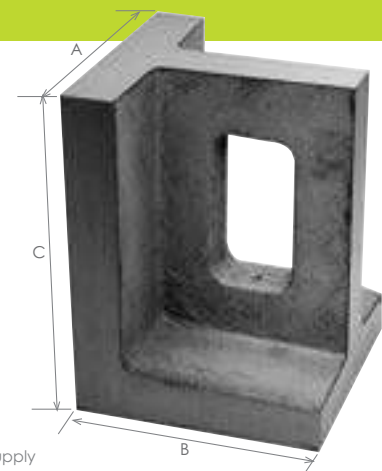
PRECISION GROUND UNIVERSAL RIGHT ANGLE PLATES

- Widely used for fixture components.
- All face, ends and edges are finished square and parallel.
- The opening provides a convenient hand grip for handling.
- Square within 0.0005" per 6".
- Parallel within 0.00025" per 6".

PRECISION GROUND SURFACE

Item#	(Inch)			Wt. (lbs)
	A	B	C	
3402-1031	3-3/4	4	5	10
3402-1032	4	5	6	16
3402-0103	4	4	6	15
3402-1033	4-1/2	5	8	21
3402-1041	5	8	12	49
3402-1043*	5-1/2	8	10	49
3402-0109	6	6	8	35
3402-0110	8	10	12	78

* Limited Supply



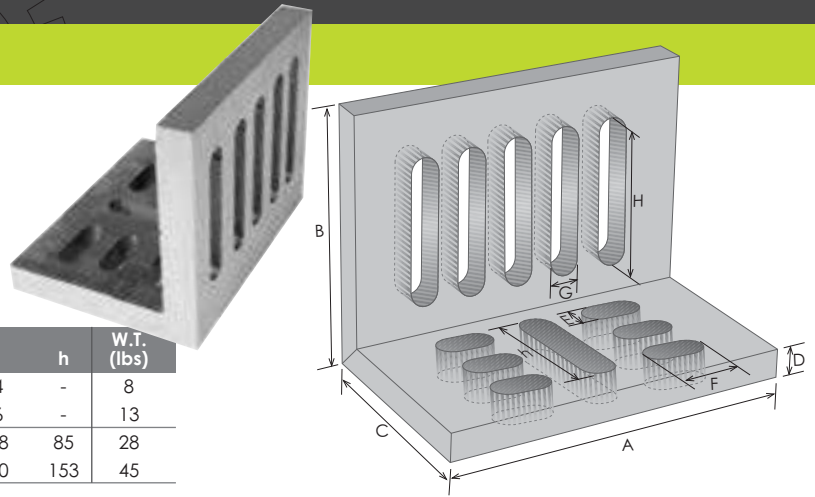
ANGLE PLATES

SLOTTED ANGLE PLATES -OPEN END

- Convenient clamping slots for mounting and are widely used for machining, layout and inspection.
- Made of high tensile cast iron properly seasoned against distortion.
- Open-End style, accurately machined square and parallel on all faces.
- Slot A is 90° to slot C.

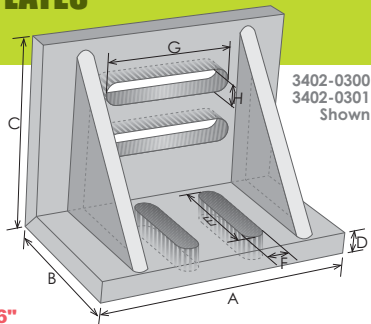
MACHINED TO .002 PER 6"

Item#	(Inch) A x B x C	D	E	(mm) F	G	H	h	W.T. (lbs)
3402-0203	6 x 5 x 4-1/2	15	12	87	12	74	-	8
3402-0209	8 x 6 x 5	18	16	118	16	86	-	13
3402-0210	10 x 8 x 6	20	20	67	20	118	85	28
3402-0212	12 x 9 x 8	23	22	81	22	120	153	45

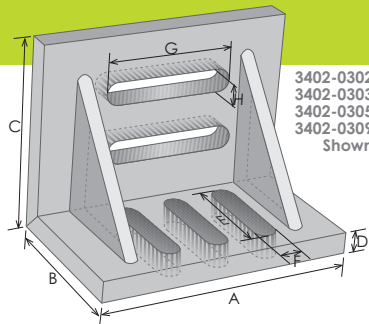


SLOTTED ANGLE PLATES -Webbed

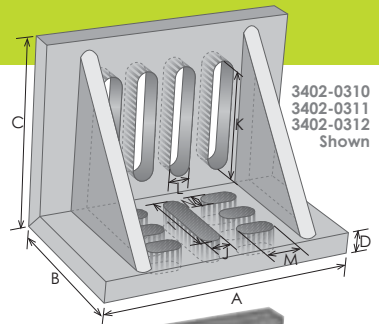
- Made of high tensile cast iron properly seasoned against distortion.
- Clamping slots are widely used for machining, layout and inspection.
- Accurately machined and ground square and parallel on outside and ends.



3402-0300
3402-0301
Shown



3402-0302
3402-0303
3402-0305
3402-0309
Shown



3402-0310
3402-0311
3402-0312
Shown

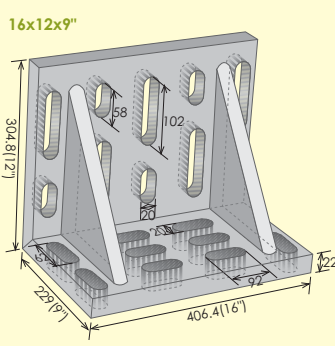
MACHINE TO .002 PER 6"

Item#	(Inch)			(mm)											W.T. (lbs)
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
3402-0300	3	2.5	2	9	40	10	37	10	-	-	-	-	-	-	5
3402-0301	3.5	3	2.5	11	48	10	47	10	-	-	-	-	-	-	6
3402-0302	4.5	3.5	3	12.5	50	11	70	11	-	-	-	-	-	-	7
3402-0303	6	5	4.5	13	74	12	86	12	-	-	-	-	-	-	11
3402-0305	7	5.5	4.5	15	88	13	105	13	-	-	-	-	-	-	14
3402-0309	8	6	5	15	98	14	105	14	-	-	-	-	-	-	17
3402-0311	9	6	7	15	-	-	-	-	94	10	116	18	52	18	27
3402-0310	10	6	8	16	-	-	-	-	89	18	130	18	52	18	38
3402-0312	12	8	9	18	-	-	-	-	128	20	150	20	58	20	50

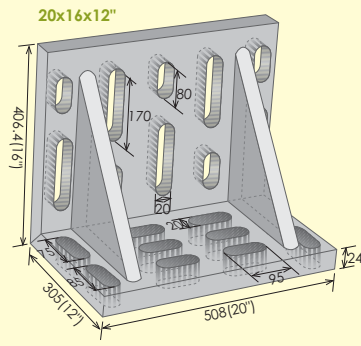


GIANT SLOTTED ANGLE PLATES-Webbed

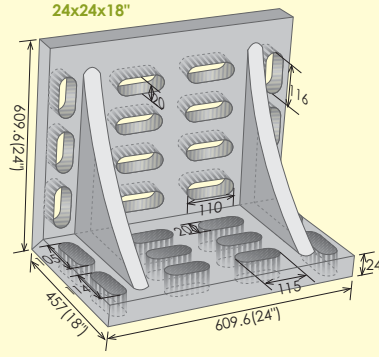
- Machined on outside faces and with cored slots arranged for maximum clamping versatility.
- Made of high grade closegrained cast iron, stress relieved against distortion.



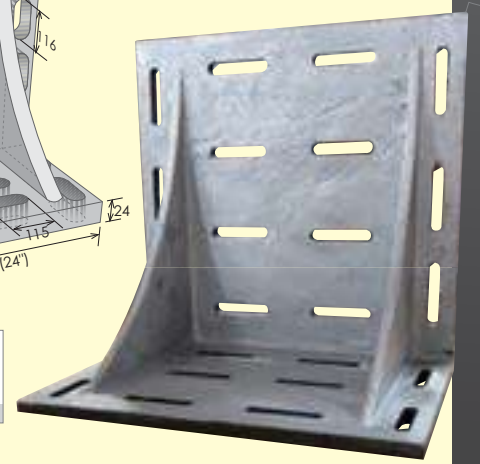
16x12x9"
3402-0340
74 Lbs.



20x16x12"
3402-0342
150 Lbs.



24x24x18"
3402-0344
330 Lbs.



3R ROCKWELL HARDNESS TESTER

- This hardness tester is used to determine Rockwell hardness of hard alloys, quenched and unquenched steels.
- It can be applied in the laboratories, scientific research institutes and colleges.

Standard Accessories Included:

- 5-3/4" testing table.
- 2-3/16" testing table.
- 2-3/16" testing table with "V" groove.
- 120° diamond penetrator.
- 1/16" steel ball penetrating.
- Rockwell A test block (1pc)
- Rockwell B test block (1pc)
- Rockwell C test block (3pc)
- Screwdrivers (2)
- Complete instruction manual.
- Dust-proof plastic cover.

SPECIFICATIONS	
Maximum load.....	330 lbs.
Load range.....	132lbs, 220lbs, 330lbs.
Initial range load.....	22 lbs.
Maximum test load.....	4-1/4"
Depth throat.....	5-1/4"
Maximum depth of spindle below base.....	2"
Base size.....	7" x18"
Height.....	24-1/2"
Approx.. weight.....	209 lbs.

8902-0150



Load Range	132lbs	220lbs	330lbs
Penetrator	Diamond 120	Ball 1/16"	Diamond 120
Test Scales	Rockwell A	Rockwell B	Rockwell C
Suitable for	Test on case hardened steel	Annealed ferrous & non-ferrous metal	Annealed hardened & tempered or deep case hardened steel

PENETRATORS FOR HARDNESS TESTER



Item#	Description
8902-0151	C Diamond
8902-0152	1/16" Steel Ball

TEST BLOCKS FOR HARDNESS TESTER



Item#	Description
8902-0130	20-30 HRC Test Block
8902-0155	35-55 HRC Test Block
8902-0170	60-70 HRC Test Block
8902-0188	80-88 HRA Test Block
8902-0195	85-95 HRB Test Block

6PC COMPOSITE SET OF SPECIMENS

- Each Specimen 7/8" x 3/8" of electroformed solid nickel.
- Each type of surface finish is truly and consistently reproduced with a realistic idea of the feel, appearance and texture of the machined components.
- For quick and easy comparisons.
- Conforms to S.A.E and military specifications.
- Supplied with wallet, instructions and certificate.



Item#	Surface Type	Micron Inch AA
4101-0024	Plain Grinding	2, 4, 8, 16, 32 & 63
4101-0025	Horizontal Milling	16, 32, 63, 125, 250 & 500
4101-0026	Vertical Milling	16, 32, 63, 125, 250 & 500
4101-0027	Turning	16, 32, 63, 125, 250 & 500
4101-0028	External Grinding	8, 16, 32 & 63

COMPOSITE SET OF SURFACE ROUGHNESS STANDARDS

- 30 Specimens 7/8" x 3/8" of electroformed solid nickel.
- Each type of surface finish is truly and consistently reproduced with a realistic idea of the feel, appearance and texture of the machined components.
- For quick and easy comparisons.
- Conforms to S.A.E and military specifications.
- Supplied with wallet, instructions and certificate.

4101-0030



SPECIFICATIONS

Horizontal Milling (6 specimens)	16, 32, 63, 125, 250 and 500*
Vertical Milling (6 specimens)	16, 32, 63, 125, 250 and 500*
Turning (6 specimens)	16, 32, 63, 125, 250 and 500*
Plain Grinding (6 specimens)	2, 4, 8, 16, 32 and 63*
Flat Lapping (2 specimens)	2 and 4*
External Grinding (4 specimens).....	8, 16, 32 and 63*

* Micron Inch AA

MICROSCOPES & BOSCOPES

20X & 40X STEREO MICROSCOPE

- Optical glass lens.
- Illuminator both stand and overhead switchable.
- Stereo body rotatable 360°.
- Possible magnification from 20 x through 80 x (Depending upon accessories selected).
- Dioptic adjustment: Ø5 diopter
- Eyepiece: 10X , 30.50 mm (insertion part)
- objective: 2X & 4X rotatable
- Direct measuring on workpiece.
- Microscope illuminator (tungsten) 10W, 12V.
- Impeccable performance through coated optics assures better resolution.
- Locking adjustable head.
- Stage difussing glass: Ø3-3/4"
- Eyepiece rubber protectors & dust cover included.
- Power supply: 115V / 60Hz / 1PH.



Limited Supply!

20x & 40x Microscope
8902-0302

Item#	Description
8902-3005	5X Eyepiece (Pair)
8902-3015	15X Eyepiece (Pair)
8902-3020	20X Eyepiece (Pair)
8902-3081	Replacement Bulb

STEREO MICROSCOPE WITH UNIVERSAL STAND-BOOM STAND

- Optical glass lens.
- Stand with 11" vertical and 9" horizontal extension bar with chrome finished.
- Stand: 8" L x 4.6" W x 2.5" H.
- Rack & pinion focus adjustable.
- Locking collar.
- Universal movement with no limit for most working applications.
- Focal Distance: 4.50"
- Illumination system: (halogen, top only) attached with head of microscope.
- Eyepiece rubber protectors & dust cover included.
- Power supply: 110V/60Hz/1Ph.



Limited Supply!

20x Microscope
8902-0050

10x eyepiece & 2x objective

Item#	Description
8902-3005	5x Eyepiece (pair)
8902-3015	15x Eyepiece (pair)
8902-3020	20x Eyepiece (pair)
8902-5081	Replacement Bulb 10W

MICROSCOPE HALOGEN LIGHT

- Portable light to provide illumination image for microscope or other application.
- Universal movement arm.
- Power On/Off switch.
- 4 steps brightness 3, 6, 9 & 12.
- Max. Height: 10-1/2".
- Power Supply (5 ft. cord): 115 V/60 Hz, 15 W.



8902-6007

Limited Supply!

SPARE BULB 15W (Item #8902-3086)

VIDEO BORESCOPE WITH LCD DISPLAY

- Vivid 2.4" color TFT LCD monitor allows image rotation for detailed images
- 39" flexible gooseneck cable retains configured shape.
- Optional 78" flexible shaft with 9mm or 17mm camera available
- Mini waterproof 9mm (IP67) camera head provides on-the-spot viewing.
- Night Vision Range: 20".
- Power indicator, low voltage indicator.
- Mirror button.
- LED brightness control.
- LCD contrast control.
- Power Supply: 4 x AA battery.
- Dimension: (WxDxH) 8x3.3x2.4".
- Operating Temperature: 14 ~122° F.
- Weight: 14 oz.

9mm Camera, 39" Shaft
8902-0065

Light, handheld design enables you to easily find, diagnose and solve problems in hard-to-reach areas. Perfect for all kinds of inspections.



Limited Supply!

640 X 480 PIXEL



3 Useful Accessories Included.



OPTIONAL EXTENSION CABLES WITH CAMERA

Item#	Camera Head	Shaft Length
8902-6010	9mm (IP67)	78"/2M
8902-6017	17mm (IP67)	78"/2M

FLEXIBLE SHAFT IP54 WATER RESISTANT LED WORK LIGHT

- CREE XPG high performance LED light provide an excellent solution for heat sensitive environment.
- Small head (0.8" Diameter) with zoom ring for adjusting brightness
- IP54 dustproof and waterproof
- Strong magnetic base with 1.5" diameter grip can be handled as a flash light or stick on a metal surface.
- Battery Run Time: 8 hours high(200 LUMENS), 20 hours low(80 LUMENS)
- On/Off button
- 18" flexible shaft.
- Use 3xAA battery.

IP 54



OVERALL LENGTH: 24"
BRIGHTNESS: 200 LUMENS

8401-0439



Unit: mm

10X POCKET OPTICAL COMPARATOR SET

- Widely used by machinists, toolmakers and inspectors for checking angles, diameters, radii, thread pitches, hole sizes, etc.
- The scales are photo etched into glass reticle for easy reading.
- Reticle screw-in mounting are interchangeable.
- **9 pc/set includes: Comparator and 8 pc Reticle.**
- Lens diameter: 21mm

10x POWER
8902-0041



20X SHOP MICROSCOPE

- Easy focal adjustment .
- Illuminated light allows use in dark places and are adjustable.
- 2 in 1 metric and inch straight line scale.
- Operations on 2 AAA battery.

20x POWER
8902-0035



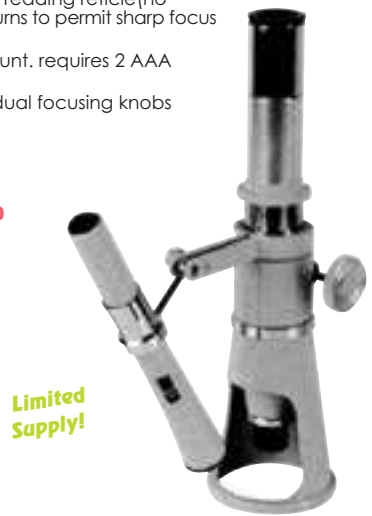
40X, 80X SHOP MICROSCOPES WITH RETICLE

- Wide field eyepiece with direct reading reticle (no calibration required). Eyepiece turns to permit sharp focus of reticle scale
- Penlight illuminator in swivel mount. requires 2 AAA batteries
- Jack and pinion focusing with dual focusing knobs
- Cast aluminum structure
- Height: 9"

RETICLE: 0-18mm/.02mmx90

40x POWER
8902-0036

80x POWER
8902-0037



HASTINGS TRIPLET MAGNIFIER

- Triplet lens system
- Case color: black



Item#	Power	Lens Dia.
4902-0045	10 X	21mm

8X LED LIGHT DESK TOP MAGNIFIER

- 8x powerful magnifier
- Flexible arm any desired position adjustable
- Diameter of Visible Area: 5"
- Adjustable LED light with 300 LUX brightness, 2.5Watt.
- Power Supply: 110V/1 phase
- Furnished with 60" cord.



8070-0001

SPARE LED BULB 2.5W (Item #8070-0004)

INDUSTRIAL GRADE LED LAMP MAGNIFIER

- Light source LED, 390 Lums brightness.
- Lens Size: 7.5x6.0".
- Lens frame: 12x9".
- Lens material: glass.
- 3 diopter lens provides 1.75x magnification.
- Swing arm with 32" reach.
- Max. 2-1/2" adjustable bench clamp.
- Power On/Off switch.
- Power Supply: 115V.



8401-0045

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▶ **PRECISION MEASURING TOOLS**

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▶ **CUTTING TOOLS**

▶ **MACHINE TOOL ACCESSORIES**

▶ **MRO & SHOP SUPPLIES**

▶ **AIR, POWER & HAND TOOLS**
