

COAXIAL INDICATOR SETS

COAX-2D

Use the 2 Dimensional Coaxial Set for accurate component centering and positioning in most machining applications. The 2D Coaxial indicator can be used at any angle and the dial remains stationary during the rotation of the machine spindle. Recommended speed not to exceed 800 RPM.



- Indicator assembly with 1.6" (42.5mm) diameter dial
- Graduations and revolution counter .0005" (.01mm)
- 3 Internal and 3 External feelers
- Center point feeler, restraining arm
- Complete in a fitted case.

- Specifications:**
- Length: 6-7/8" (175mm)
 - Shank: 3/8" dia. x 7/8" (10mm x 20mm) long
 - Feeler ball: 1/8" (3mm) dia.
 - Dial readings: 0-50
 - Measuring range: .250" (6mm) axis offset
 - Locating accuracy to within .0002" (.005mm) of true center

Description	Part Number	Price
2D Coaxial Set-Inch	FOW-52-710-025	\$248.00
2D Coaxial Set-Metric	FOW-52-710-030	\$253.00



LATHE CHUCKS
LIVE CENTERS

VICE JAWS
VICE ACCESSORIES

DIAL HEIGHT GAGES



- .001" Graduation
- 5mm X 8mm Clamp
- Made of high quality stainless steel
- Fine feed adjustment with positive lock
- Scriber is carbide tipped
- Other side of scriber has a pin to attach indicator clamp and dovetail
- Complete with fitted case

Range	Part Number	Price
0-12"	A-4309-0012	\$145.00
0-24"	A-4309-0024	\$350.00



B

ELECTRONIC HEIGHT GAGE



- Direct inch/metric conversion.
- Resolution: .0005"/.01mm
- Large, high contrast LCD display
- ABS/INC measurement
- Direct RS232 output
- Floating zero
- Positive lock, carbide scriber
- **Includes high-impact aircraft quality aluminum case**

Range	Accuracy	Part Number	Price
0-12"/300mm	±.0015"	FOW-54-175-012	\$385.00
0-18"/0-450mm	±.002"	FOW-54-175-018	\$450.00
0-24"/600mm	±.003"	FOW-54-175-024	\$510.00



STRAIGHT SHANK
COLLET HOLDERS

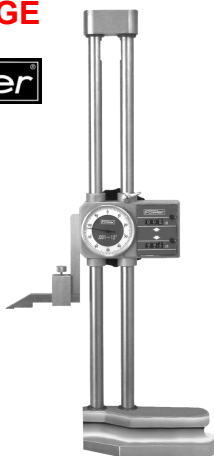
TAP HOLDERS
DRILL CHUCKS

TWIN BEAM DIAL HEIGHT GAGE



- Separate digit counters register both upward & downward travel
- Zero setting can be obtained throughout the gage's range
- Coarse readings in .100" graduations: fine readings taken on indicator are .001"
- Dual chrome plated beams
- Carbide tipped scriber
- Base is hardened, ground & lapped for maximum flatness

Range	Part Number	Price
12"	FOW-52-174-212	\$215.00
24"	FOW-52-174-224	\$405.00



0-6" ELECTRONIC HEIGHT GAGE



- Range: 0-6" (150mm)
- Linear Accuracy: ± .001" (± 0.03mm)
- Resolution: .0005" (0.01mm)
- Clear, easily read numbers, properly sized for the tool
- Hardened, stainless steel bar for long life
- Fine adjustment thumb roll for precision measurements
- The auxiliary scriber has a rounded nose for cutting clean, sharp lines with smoothness and less pressure.
- Lock to hold the slide in position
- Hardened, ground, and lapped base with finger grooves to provide ease of movement
- One-year minimum battery life with two furnished 3-volt batteries
- Scriber can reference zero from the bottom of the base to get the full 6" (150mm) usable range
- Includes case

Range	Part Number	Price
0-6"	STR-12221	\$269.00



CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

0-12" ELECTRONIC HEIGHT GAGE



- Range (in): 0 - 12"
- Resolution (in): .0005"
- Accuracy (in): (+/-)0.0015"
- Clear bar graduations in .100" and 5mm increments
- Large (9.65mm/3/8"), easy-to-read LCD display
- Carrier and scriber designed to read from zero
- Hold control feature to retain a reading at any position
- Ability to set zero at any position
- Manual on/off plus a built-in automatic off after 30 minutes
- Large positive action keypad
- Ability to retain and return to the true zero
- RS232 data output port
- 1-1/2+ years battery life (includes 2 batteries)
- Base is well-balanced, hardened, ground and lapped

Desc.	Range	Part Number	Price
3754-12/300	0-12"	STR-72625	\$824.00



A

ELECTRONIC HEIGHT GAGES



- Large display screen
- Preset memorizing function
- Hardened and ground stainless steel frame
- Cast iron base
- True inch/metric conversion



Range	Resolution	Part Number	Price
0-12"	.0005"/.01mm	A-4300-0112	\$230.00
0-20"	.0005"/.01mm	A-4300-0120	\$310.00



PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

Call Us Or Visit Our Website For Our Complete Selection!

SURFACE PLATES & ACCESSORIES

PRO TRAM SYSTEM

The Pro Tram makes the process of tramping your mill fast, easy and accurate. Tramping is the process of squaring the head of your milling machine to the table. The Pro Tram is sized to fit the bed of a 6" vise allowing you to tram directly to vise for increased accuracy. It can be used with a sine bar or sine plate to adjust the head to precise angles.



- Quickly square the head of a milling machine
- Perfectly fits the bed of a 6" vise
- Indicator graduations 0.001" and 0.0005"
- Shank sizes available in 1/2" and 3/8"
- Large 2.2" easy to read indicator face
- Indicator repeatability of 0.0002"
- Body made from red anodized aluminum
- Includes calibration gage, manual and case

Ind. Grad.	Shank Dia	Part Number	Price Each
0.001"	1/2"	EDGE-01000	\$124.99
0.001"	3/8"	EDGE-10000	\$124.99
0.0005"	1/2"	EDGE-09000	\$139.99



CHUCK JAWS
LATHE WORKHOLDING

MACHINE VISES
VISE JAWS

RETENTION KNOBS
ER, DA, TG COLLETS

TOOLHOLDERS
TAP HOLDERS

INDEXABLE DRILLS
TURNING & BORING

ENDMILLS, DRILLS
TAPS & REAMERS

ABRASIVES
MEASURING TOOLS

MRO & SAFETY
FLAT STOCK/DRILL ROD

SPINDLE SQUARES

Offers accuracy, convenience and significant time saving with the common shop task of tramping the head of a vertical milling machine. This must be done regularly to ensure squareness and perpendicularity between the spindle and work surface. The spindle square is easier to use and more precise than the traditional method of tramping with a dial test indicator. .001" Grad, 0-50-0 Dial; .250" Range.



- Includes two AGD Group 2 dial indicators
- Patented design
- Solid steel body construction with black oxide finish
- Ground gaging surface
- Approximately 4 lbs with custom case
- 3/8" inch shank diameter
- 4" (100mm) between contact points
- Approx. 6-3/4" (172mm) wide and 5-1/2" (140mm) from the top of shank to the end of the contact points

Reference	Range	Grad.	Dial Reading	Part Number	Price
649-1	.025"	.001"	0-50-0	STR-52080	\$217.00
649-5	.125"	.0005"	0-25-0	STR-52081	\$229.00
649-1M	2.5mm	0.01	0-50-0	STR-52082	\$229.00



BLACK GRANITE SURFACE PLATES

No Ledge

- **Grade A, Inspection Grade:** Typically specified for general work in quality control
- Meets or exceeds US Federal Specification GGG-P-463c for flatness
- High quartz content which provides greater wear resistance to wear and damage
- Black granite creates little glare resulting in less eyestrain for individuals using the plates



Size	Thickness	Flatness Unilateral Tolerance	Weight lbs.	Part Number	Price
12" x 12"	4"	.000100"	55	STR-85008	\$199.00
12" x 18"		.000100"	85	STR-85013	\$263.00
18" x 24"		.000150"	248	STR-85031	\$508.00
24" x 24"		.000150"	330	STR-85038	\$668.00
24" x 36"	6"	.000200"	495	STR-85058	\$1,091.00
36" x 36"		.000300"	745	STR-85092	\$1,743.00
36" x 48"		.000400"	1320	STR-85113	\$2,309.00
36" x 60"		.000500"	2065	STR-85120	\$2,769.00



BLACK GRANITE SURFACE PLATES

Grades A & B • No Ledge

- Surface plates are checked by auto-collimator for overall accuracy assurance
- All points on surface are between two parallel planes separated by the accuracy
- **Grade A:** Inspection
- **Grade B:** Toolroom



Grade: A- No Ledge

Size	Accuracy	Weight	Part Number	Price
18" x 12" x 3"	+/- .00005"	80lbs	A-4401-1812	\$102.00
24" x 18" x 3"	+/- .000075"	150	A-4401-2418	\$195.00
36" x 24" x 4"	+/- .0001"	495	A-4401-3624	\$540.00
48" x 36" x 6"	+/- .0002"	1200	A-4401-4836	\$1,220.00

Grade: B- No Ledge

Size	Accuracy	Weight	Part Number	Price
12" x 9" x 3"	+/- .0001"	40 lbs	A-4401-0011	\$61.00
18" x 12" x 3"	+/- .0001"	80	A-4401-0012	\$77.00
24" x 18" x 3"	+/- .00015"	150	A-4401-0013	\$163.00
36" x 24" x 4"	+/- .0002"	350	A-4401-0014	\$470.00
48" x 36" x 6"	+/- .0004"	1200	A-4401-1604	\$1,095.00
48" x 72" x 6"	+/- .0004"	2480	A-4401-1607	\$3,280.00



- Overall height: 36"
- Made of heavy gauge steel with baked enamel finish
- Assembly required
- Comes with leveling screws

Surface Plate Stands For 0 Ledge

Plate Size	Weight	Part Number	Price
24" x 18"	70 lbs	A-4401-1301	\$221.00
36" x 24"	100 lbs	A-4401-1401	\$287.00
48" x 36"	115 lbs	A-4401-1602	\$416.00
48" x 72"	200 lbs	A-4401-1608	\$765.00

Call Us Today For All Of Your Machine Tool Needs!