

DIAL AIR GAUGE UNIT



High Pressure Dial Type Air Gauge Units for very fast measurement. Working on Null balance principle. Robust construction with shockproof dial. Useful for measurements of diameter, taper and ovality using air plug, air ring and air snap in mass and batch production. Available in measuring ranges $\pm 0.040\text{mm}$ and $\pm 0.020\text{mm}$ with resolution of 0.001mm and 0.0005mm . Conversion to Air Electronic Unit possible.

MULTIGAUGING FIXTURE FOR CONNECTING ROD & CRANKSHAFT



Multigauging Fixtures: Pneumatic and Air Electronic Multigauging solutions to increase the efficiency of checking the multiple or complex parameters in one go on shop floor like Bend, Twist and Centre Distance of Connecting Rod, Centre Distance of Crankshaft.

AIR ELECTRONIC UNIT



Useful for simple application like diameters to complex parameter like parallelism, perpendicularity. Non contact measurement with electronic combination for absolute display. Data transfer to PC for SPC and storage purpose. Absolute or Comparative measurement with Auto Calibration facility. Tolerance Indicator for OK and Not OK component. Static and Dynamic Measurement. Seven segment display for absolute display value. Selectable Resolution 0.1 , 0.5 , 1 and 5 microns.

AIR RING GAUGE WITH SETTING PLUG



Air Ring Gauge with Setting Plugs: Useful for external diameter. 2 jet for checking taper and ovality and 3 jet for checking taper and lobing measurement. Through or shoulder shaft design. Special air ring for multiple diameters to be provided. Available from 10mm to 100mm .

AIR SNAP GAUGE WITH SETTING MASTER



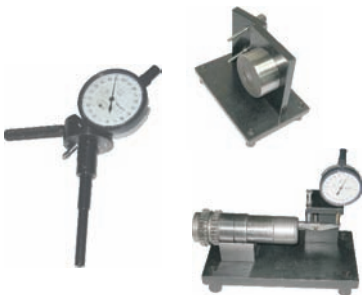
Air Snap Gauge with Setting Masters: Useful for checking the diameter of external shaft, crankshaft journal and Pin. Very useful for checking on machines. Middle jet and Corner jet available. Standard 2 jet for checking diameter, taper and ovality. Special 6 jets for checking crowning on crankshaft diameter. Available from 25mm to 100mm .

AIR PLUG & SETTING RING



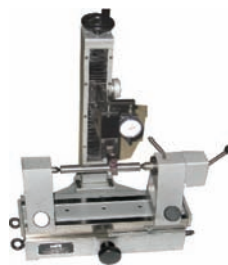
Air Plug Gauge with Setting Rings: Useful for internal bore size, taper and ovality measurement. Through or blind bore design. Special air plug for long bore, short bore and taper bore. Available with hard chrome plating for longer life in the range 4mm to 200mm .

SPECIAL GAUGING



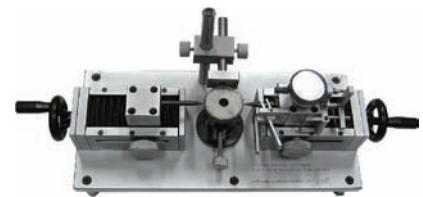
We manufacture special gauges as per customer design or our own design in Receiver type like Flush Pin type, Go-NOGO acceptance type and Indicative type like valve seat runout, OD to ID Concentricity, Depth Checking Gauge etc.

GEAR PCD RUNOUT CHECKING CENTRE



An important instrument for gear manufacturers for checking runout of gear PCD. Suitable for spur and helical gears.

GEAR DOB CHECKING INSTRUMENT



Useful for inspection of diameter over the ball of gear. The display system indicates DOB of components.

TAPER GAUGES



Manufactured for inspection of Morse Taper, as per IS 2251:1986, For Self release (ISO) Tapers as per IS 9475:198, For Jacob Taper as per IS 10649 : 1983, Other Standard taper and also as per customer requirements.

TEST MANDRELS



Taper & straight Mandrels required for machine tools acceptance tests.

COMPARATOR STAND



Available with steel and granite bases. Useful in Quality control and shop floor manufacturing. Eight different models available.

CONCENTRICITY & SQUARENESS CHECKING CENTRE



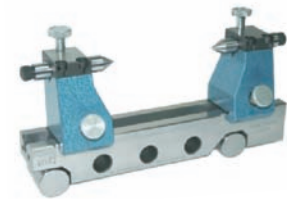
Useful for testing runout, coaxiality, parallelism and squareness of cylindrical products. Admit between Centre 200 mm max. Centre Height 75 mm.

SINE BAR



Manufactured in the range of 100 mm, 200 mm, 300 mm. Used for inspection of tapers. Design & Accuracy as per IS 5359-1987.

SINE CENTRE



Manufactured in the range of 200 mm, 300 mm. Design & Accuracy as per IS 5979:1981 For checking taper angles of components having centres. This is most reliable method for taper checking of components having centres.

ELECTRONIC COMPARATOR



Useful for checking the diameter and length on standard comparator using LVDT and Digital Display unit having a resolution upto 0.1 microns with absolute display value and data can be transferred to PC for further analysis.

TRANSFER STAND



Range 0-300mm Suitable for transferring precision measurements from component to precision measuring instruments like Height Micrometer and vice versa.

INDICATING SQUARE



It is very useful for quick checking of deviation of angle from 90° in rectangular jobs. This instrument is light and handy which facilitates easy measurements.

MASTER RING GAUGES



Manufactured in the range 5-250 mm Design as per IS 3485:1983. Tolerance as per IS 3455:1971 Useful for setting of Dial Bore Gauges and Air Plug Gauges.

PLAIN RING GAUGES



GO-NOGO Ring gauges as per customer requirements & IS standards.

O.D SETTING MASTER



Precise and ground O.D Setting Master used as setting master in various applications like Air snap gauge, dial comparator stand.

FIXED SNAP GAUGE



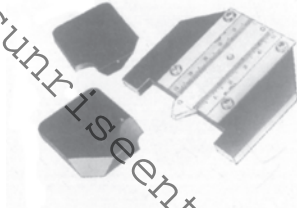
Manufactured in the range of 3-250 mm in Single ended design. Double ended design on request.

Z-AXIS SETTER



Z-axis dial tool setting gauge allows setting of accurate tool height to be set from the work piece or machine tool table.

WELD GAUGES



Gauges used to determine the size of throat of weld, convexity & reinforcement of weld.

MASTER CYLINDER



Useful for checking Squareness of precision machine tools. It is also used as reference tool for Setting Squareness of Checking Instrument. Design & Accuracy as per IS 6952 : 1990. Size range from 75-600 mm length.

DRILL & LINER JIG BUSHES



Headed & Headless varieties as per IS 666 : 1972 available with rounding on bores.

RENEWABLE DRILL JIG BUSHES



Fixed / slip type As per IS 666 : 1972.

LOCKING SCREW



Screws of various sizes used along with renewable Drill Jig Bushes.

PLAIN PLUG GAUGES



Range 0.5-250 mm. All designs as per Indian Standards in Reversible, Taperlock, Trilock systems. Manufacturing Tolerance as per IS 3455:1971. Standard sizes will be available from ready stock.

ADJUSTABLE SNAP GAUGES



Range 0-150mm in 24 different sizes. Accuracy and Design as per IS 7606 : 1982.

MEASURING PIN BOX



Available from 0.5-20 mm in steps of 0.01, 0.02 & 0.05mm. Also manufactured for special applications like gear measurements, thread measurements etc.

SHALLOW BORE GAUGE



The Shallow Gauge is specially designed for accurate checking of outside & inside diameter of components, having wide variety of applications in checking outside & inside diameter, small length collars, Recesses, Groove dia. with absolute accuracy as you can use either 0.01 mm or 0.001 L.C. dials with 8 mm mounting shank.

DIAL SNAP GAUGE



Dial Snap Gauge: Useful for precision measurements of diameter, groove, thickness, length, gear tooth width etc. Lever provided for lifting the movable anvil for easy job insertion. Available in flat, jaw and interchangeable type anvils. Ranges available in 0 - 25, 25 - 50, 50-75, 75 -100, 100 -125, 125 - 150 mm.

THREE WIRE THREAD MEASURING UNIT



3 Wire Unit: Useful for pitch diameter measurement using standard micrometer. Wires are hardened, ground and lapped in special steel. Available for micrometer having anvil diameter of 6.35, 6.50 and 8.0mm. Each unit consisting of 18 sizes of wires in the range from 0.17 to 3.20 mm available.

RIGID CLAMP



Used on milling, planer, drilling, shaping machine. Surface grinding machines etc.

HINGE CLAMP



Used on milling, shaping, drilling, surface grinding machines etc.

COMPOUND SLIDE CLAMP



Used on milling, shaping, planer machines for clamping plates without side face machining.

PLATE CLAMP



Used on milling, drilling, shaping, lathe, planer machines for clamping of plates having side faces machined.

THIN PLATE CLAMP



Used on milling, drilling, machines for clamping of thin plates.

STEPLESS UNIVERSAL CLAMP



Can be quickly adjusted to any height without the use of supports. Useful for press shops.

DOWN THRUST CLAMP



Fast clamping & unclamping with positive downward force.

ECCENTRIC SIDE CLAMP



Used on drilling, milling and cutting machines for light operations.

SCREW JACK



Stable and sturdy modular system makes it fast mounting & economical. Has got a trapezoidal threads.

UNIVERSAL STEP BLOCK



Used as supporting blocks on any machine.

ADJUSTABLE HEIGHT PLATE & EXACT HEIGHT SETTER



Used on any machine as supporting height blocks or spacer. Accurate and fine adjustment of supporting height elements with the help of exact height setter.

LOW DOWN THRUST CLAMP



Used for clamping of jobs from top where side clamping is likely to deform the component, can be mounted in the fixture plates.

STRAP CLAMP WITH SCREW AND THRUST PAD



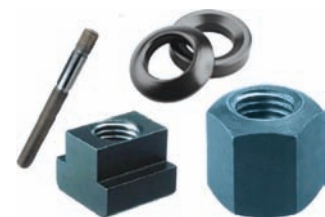
This clamp is very useful for plastic moulding industry.

CLAMPING KIT



Set of clamping elements which provides all clamps for any machines. Useful for all machines having standard T slot. Suitable for spark erosion, milling, drilling, etc.

CLAMPING ELEMENTS



For clamping strap, open ended strap, heel strap clamps as per IS.
For fastening clamping studs, T bolts, T nuts.
Nuts, hex extension nuts.
Plain washers, C-washers, spherical washers and conical seats.

ADJUSTABLE SELF ALIGNING PAD



These self-aligning pads serve as stops, supports & thrust elements in Jigs & Fixtures. They can also be fitted to existing clamping elements.

SELF ALIGNING PAD



Useful for clamping job from top or bottom. Serves as stops, supports & thrust elements in Jigs & Fixtures.

SPRING PLUNGER



Spring plungers are used for variety of applications & wherever the return of job to the position is required.

HONING MANDRELS MULTISTONE HOLDER TYPE



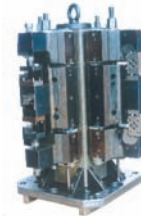
Suitable for honing Liners.

HONING MANDRELS PUSH & PUSH TYPE



Suitable for honing cylinder blocks.

FIXTURE FOR MACHINING CENTER



Manufacturing Fixtures for horizontal/vertical machining centre.

ACCEPTANCE GAUGE



Manufacturing Acceptance & Receiver Gauges as per customer requirement.

MULTISPINDLE DRILLING HEAD



Manufacturing Multispindle Drilling Heads as per customer requirement.

GRINDING VICE



Made from tool steel Ground to accuracy within 0.005 mm.

CHAMFERING MACHINE



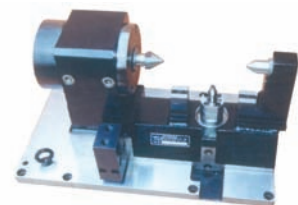
Table-top model with indexable throwaway carbide inserts which facilitates quick change of inserts.

PCD DRILLING FIXTURE



Useful for short batch production or tool room jobs. Rigid construction for undertaking Heavy Loads.

JIGS & FIXTURES



Various type of Jigs & Fixtures for machining, grinding, inspection. Made as per customers requirements.