BOMBAY TOOLS SUPPLYING AGENCY

We 'measure' up to your requirements of quality and precision

The need for high-precision measuring instruments and gauges is vitally immense and varied. Every industry demands quality and precision in measuring instruments.

Over the last 60 years, Bombay Tools Supplying Agency, has earned an enviable reputation in the field of measuring instruments.

The concern for precision, the dedication for quality and the determination for consistent performance find expression in the comprehensive range of MEASURING INSTRUMENTS offered by the company.

We export through "J R Sons" which is the export unit of Bombay Tools Supplying Agency. Our products are well established locally under the brand name JAFUJI and are exported to countries like Italy, Germany, Singapore, Taiwan, U. A. E., Oman, Saudi Arabia, Sharjah and others.. We also export and market hand tools and cutting tools. Our very own laboratory, which is certified by National Accreditation Board for Testing and Calibration Laboratories (NABL) reflect our commitment to Quality.

Besides manufacturing JAFUJI measuring instruments, we are also the largest authorized distributors of **Mitutoyo**, Japan for India as well as, we represent other reputed companies like Elektrophysik, Germany, Wyler AG, Switzerland, Sylvac, Switzerland and Kroeplin, Germany.

This catalogue presents the range of JAFUJI measuring instruments. Kindly identify the products of your interest from this catalogue, using our product code numbers and also from our Web site if necessary. In addition to this, if you have any requirements for hand tools and cutting tools specific to your market we can examine procuring these for you. We also need to know for which products you need samples to further establish our commitment of quality.

We invite you to experience our range of products and wish to establish a long standing relationship with your organization.

D. V. Shah, Partner

B. S. Shah, Partner

OVER 60 YEARS OF SERVICE SINCE 1942

Steel Base Dial Indicator Stands & Comparator Stands

Jafuji Dial Indicator Stands and Comparator Stands are of robust design and have accurate ground working surfaces. Rapid Adjustment of the Dial Indicator is possible by moving it along the vertical columns which facilitates measurements at any point over the table.

Mini Dial Indicator Stand (Carbide Anvil)

Code No. - 1000

Indigenously designed and developed for special applications.

Clamping Stem Diameter : 8 mm
Maximum Working Height : 100 mm
Mass Kg. : 2.8

Mini Dial Indicator Stand

Code No. - 1010

Particularly suitable for quick and accurate inspection of small flat or round works. It is also readily adaptable as a thickness gauge.

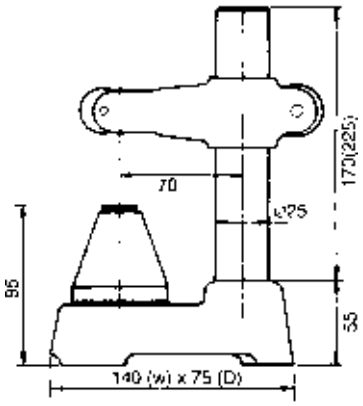
Clamping Stem Diameter : 8 mm
Maximum Working Height : 100 mm
Mass Kg. : 2.8

Upright Dial gauge Stand

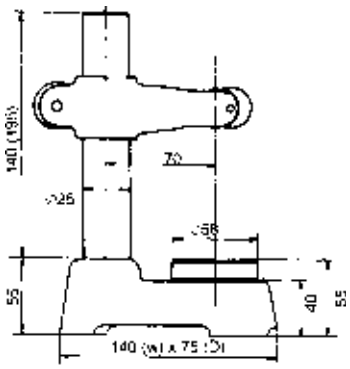
-Code No. 1040

This Dial Gauge Stand is Compact and inexpensive. Suitable for inspecting small parts on the shop floor.

Anvil Diameter : 40 mm
Maximum working Height : 20 mm
Mass Kg. : 1.5
Remarks : Lug-On-Centre Back Centre clamp



1000



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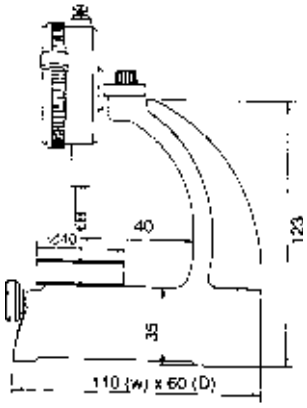


1040

BOMBAY TOOLS SUPPLYING AGENCY

Dial Indicator Stands

Jafuji Dial Indicator Stands and Comparator Stands are extremely rugged and universally adjustable to any position. These gauges are well suited to inspection, layout, checking and lineup operations anywhere in the shop. All settings are individually made without disturbing others. Quick height positioning of the indicator as well as adjustment in a horizontal plane is accomplished by a bracket holding the 22 mm horizontal gauge rod. Individual knurled thumb knobs clamps on the base post in any position. The horizontal gauge rod provides length wise adjustment and each movement is having its own clamping knob. The grid type accurately ground anvil prevents work piece from sticking to it.

Maxi Dial Indicator Stand
-Code No. -1020

Robust design having an accurately ground working surface. Rapid adjustment of the dial indicator is possible by moving it along the ground horizontal and vertical columns, which facilitates measurements at any point over the table.

Clamping stem diameter : 8 mm
Maximum working height : 150 mm
Mass Kg. : 7.8

Large Maxi Dial Indicator Stand
-Code No. -1030

This has similar features of Maxi Dial Indicator Stand, provided with large measuring table.

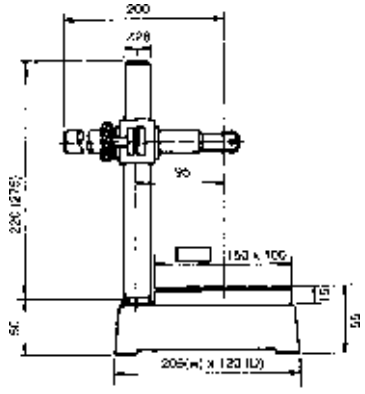
Clamping stem diameter : 8 mm
Maximum working height : 300 mm
Mass Kg. : 14

Watch Maker's Mini Dial Indicator Stand

-Code No. -1060

Clamping stem diameter : 8mm
Maximum working height : 50mm
Fine adjusting range : 50mm
Mass Kg. : 6

Similar to 1070 with Anvil height fine adjustment of 50mm



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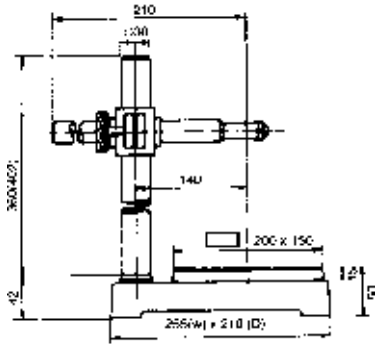

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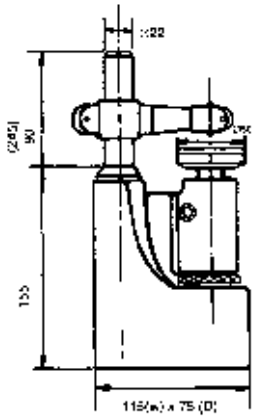
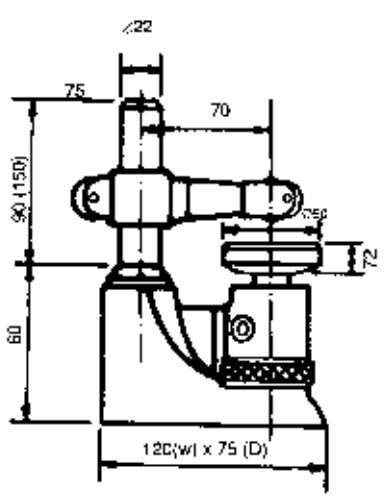


1060

Watch Maker's Mini Dial Indicator Stand
-Code No. :1070

The ideal dial gauge stand for checking small components for rapid inspection settings of small components, anvil is provided with fine adjustment by means of knurled thumb nut from bottom.

Clamping stem diameter : 8 mm
Maximum working height : 50 mm
Fine adjusting range : 50 mm
Mass Kg. : 2.4

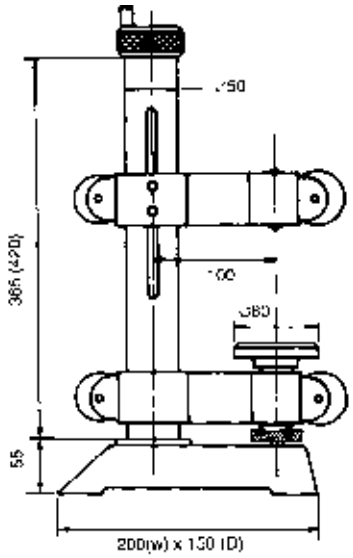


1070

Mykrokator Stand (CEJ Type)
- Code No. :1080

Ideally suitable and sturdy stand for Precision Mykrokator Indicator. Anvil is provided with fine adjustment knurled thumb nut from bottom. Dial indicator bracket is provided with easy fine adjustment from the top of upright post.

Clamping stem diameter : 28 mm/8 mm
Maximum working height : 180 mm
Fine adjusting range : 10 mm
Mass Kg. : 11

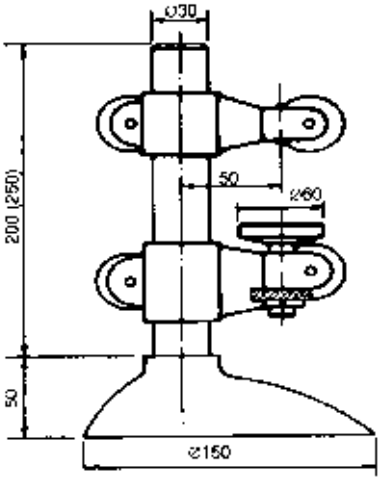


1080

Mykrokator Stand
- Code No. :1090

Fine adjustment screws at the bottom to adjust the height of the anvil. Shank Dial 8mm or 28mm interchangeable

Clamping stem diameter : 28 mm/8 mm
Maximum working height : 100mm
Fine adjusting range : 5mm
Mass Kg. : 6



1090

Dial Gauge Stands, Transfer Stands

These dial Gauge Stands and Transfer Stands consists of a very stable, cast iron base and an upright column with a mounting bracket that features fine adjustment. The serrated anvil prevents the work piece from sticking to it.

This rugged transfer stand provides a rigid, stable base with complete and constant accuracy. It is an Unique stand for sensitive dial test indicators to accurately transfer height settings from standard gauges and gauge blocks.

Dial Gauge Stand
-Code No. 1100 & 1110
(Similar to Mitutoyo 7001, 7002)

This is a very versatile stand. It easily adapts to thickness gauges and COMPARATOR work. It is compact and has sturdy cast iron base. The rugged bracket holds Dial Indicator firmly in place. It can also mount DIGIMATIC Indicator and Linear gauges with fine adjustment range of 1mm for zero settings. Optional interchangeable anvils are also available.

For Code No. 1100 -1110 :

Clamping stem diameter : 8mm

Maximum working height : 125mm

Fine adjusting range : 1mm

Mass Kg : 4.25

Dial Gauge Stand
-Code No. 1120, 1130
(Similar to Mitutoyo 519-109)

This has unique construction element vibration when the stand is moved across the surface plate. To ensure accuracy, the stand rest on three ground pads. The sturdily constructed base and column allows complete rigidity when measuring. Fine adjusting range of 1mm for zero settings.

For Code No. 1120 :

Clamping stem diameter : 8mm

Maximum working height : 300mm

Fine adjusting range : 1mm

Mass Kg : 5

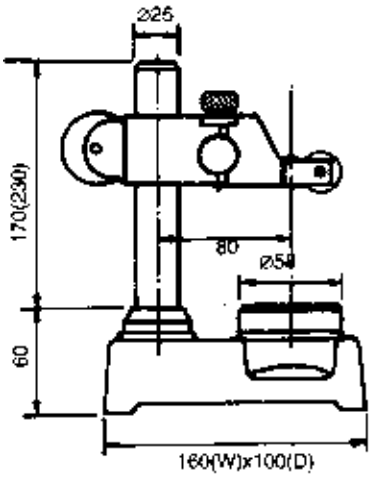
For Code No. 1130

Clamping stem diameter : 8mm

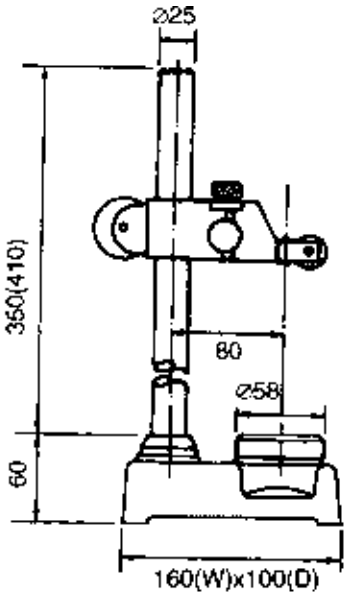
Maximum working height : 600mm

Fine adjusting range : 1mm

Mass Kg : 5.80



1100 & 1110

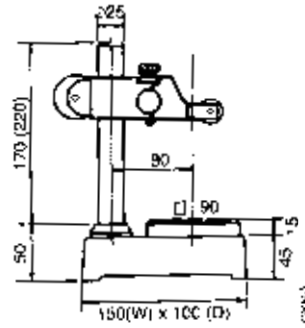


1120 & 1130

Dial Comparator Stand
-Code No. 1140
90mm Sq. ANVIL (Similar to Mitutoyo 7007)

This dial gauge stand and Comparator Stand consists of a very stable, cast iron base and an upright column with a mounting bracket that features fine adjustment. The grid type anvil prevents the work piece from sticking to it.

Clamping stem diameter : 8mm
Maximum working height : 100mm
Fine adjusting range : 1mm
Mass Kg : 4

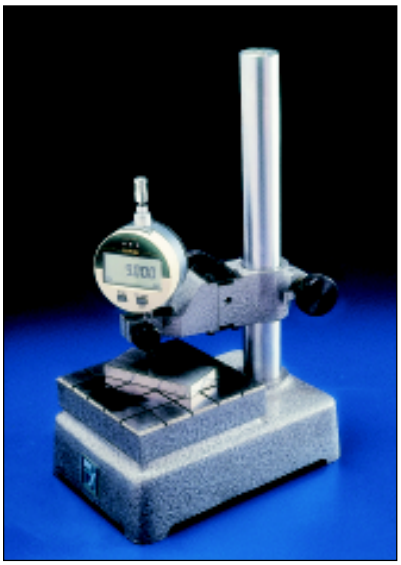


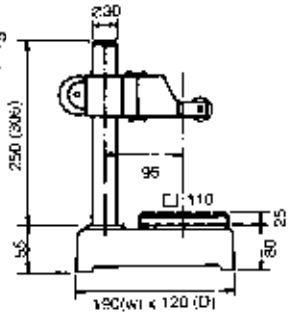
1140

Dial Comparator Stand
-Code No. 1150
110 mm Sq. ANVIL
(Similar to Mitutoyo 215-402, 215-403)

This dial gauge stands and Comparator Stand consists of a very stable, cast iron base, with fine adjustment which consists of a strong and rigid parallel spring assembly.

Clamping stem diameter : 8 mm
Maximum working height : 180 mm
Fine adjusting range : 1mm
Mass Kg : 8





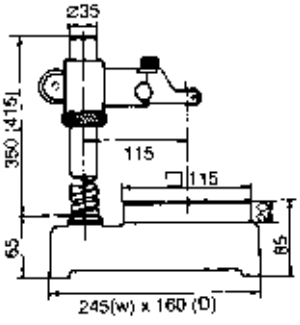
1150

Dial Comparator Stand
-Code No. 1160 & 1170
(Similar to Mitutoyo 215-501, 215-502)

These heavy-duty precision dial gauge stand is provided with rapid fine adjustment movement. The serrated column has a knurled thumb nut which permits rapid up and down movement of indicator bracket assembly that acts as a safety device preventing accidental dropping of the Indicator bracket Assembly. The final indicator setting is made by turning a fine adjusting knob on the indicator bracket.

For Code No. 1160
Clamping stem diameter : 8mm (12mm)*
Maximum working height : 260mm
Fine adjusting range : Entire Stroke
Mass Kg : 14.5
** When using a bushing (Standard accessory)*

For Code No. 1170
Clamping stem diameter : 8mm
Maximum working height : 260mm
Fine adjusting range : 1mm
Mass Kg : 14.5



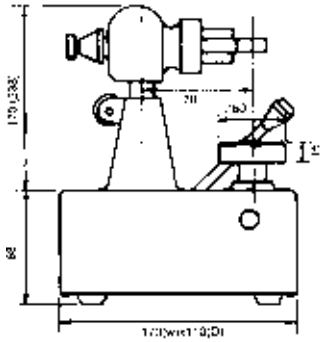
1160/1170

Bore Measuring Stand
- Code No. 1310

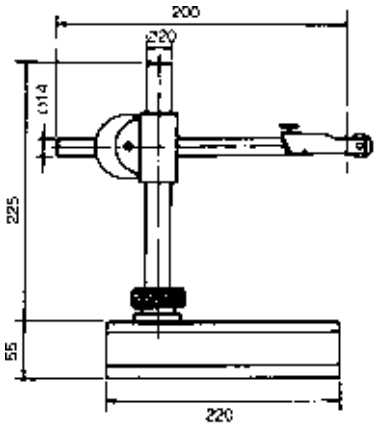
For the quick checking of bores in small work pieces. Hardened anvil plate can be raised with the lever, thus moving test piece into position. The anvil can be clamped at any height for checking eccentricity.

Clamping stem diameter :15 mm

Mass Kg : 6



1310



1440

Universal Dial Indicator Stand
- Code No. 1440

This extra heavy and rugged Universal Testing Stand with fine adjustment makes quick and accurate measurement possible on surface plate setups. It is most useful for testing spindle run out of machine tools, lathe work etc., where the highest accuracy is required. The indicator can be swivelled in all directions. It can be used in many different ways, e. g. on the surface plate in testing parallel surface of work piece. On machine tools for setting up pieces to be machined, with reference to already existing surface. It can be also be used with Bench Centre.

Clamping stem diameter : 8 mm

Maximum working height :250 mm

Fine adjusting range : 1 mm

Mass Kg : 5

Universal Dial Indicator Stand (Light duty with bottom Vee)
- Code No. 1450

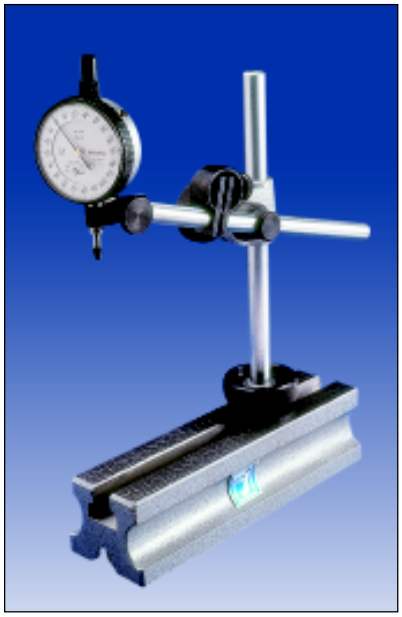
This is the most versatile and universal testing stand. It's added feature is provided with "Vee" on bottom surface of the base to facilitate inspection over cylindrical surfaces.

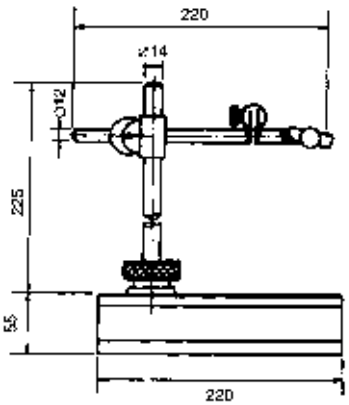
Clamping stem diameter : 8 mm

Maximum working height :240 mm

Fine adjusting range : 1mm

Mass Kg : 5.25



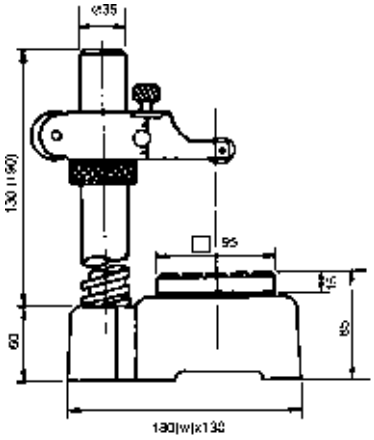


1450

Dial Indicator Stand
-Code No. 1180

The dial Gauge Stand is provided with serrated square anvil. The serrated column has a knurled thumb nut which permits rapid up and down movement of the indicator fine adjustment bracket assembly.

Clamping stem diameter : 8mm
Maximum working height : 200mm
Fine adjusting range : 1mm
Mass Kg : 6

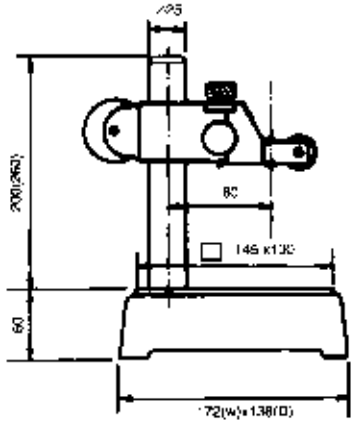


1180

Dial Comparator Stand
-Code No. 1190

This Dial Gauge Comparator Stand base is made from closed grained cast iron castings, seasoned, stress releved and accurately ground working surfaces. With fine adjusting range of 1mm.

Clamping stem diameter : 8mm
Maximum working height : 130mm
Fine adjusting range : 1mm
Mass Kg : 8



1190

Micrometer Stand
- Code No. 1660 /1670

Finely finished Micrometer Stand can be adjusted to any position.

The Micrometer Stand has a necessary clamping device, which is meant for usage, when more precise measurements are required. Provides a desirable measuring position and angle for inside and outside Micrometers and many other instruments.

BOMBAY TOOLS SUPPLYING AGENCY

Granite Base Dial Indicator Stands and Comparator Stands

JAFUJI Granite Comparator Stands are made from rigid granite base which is free from burrs, pile ups, rust and deterioration over time. These stands satisfy all types of precision measuring assignments, including comparative measurement.

Dial Gauge Stand
- Code No. 1210

Light duty granite Dial gauge stand. Horizontal arm is provided with fine adjustment. The Horizontal arm built in with fine adjustment for easy Dial Indicator zero setting.

Clamping stem diameter : 8 mm
Maximum working height : 180 mm
Fine adjusting range : ENTIRE STROKE
Mass Kg : 7

Dial Gauge Stand with F/A
- Code No. 1230

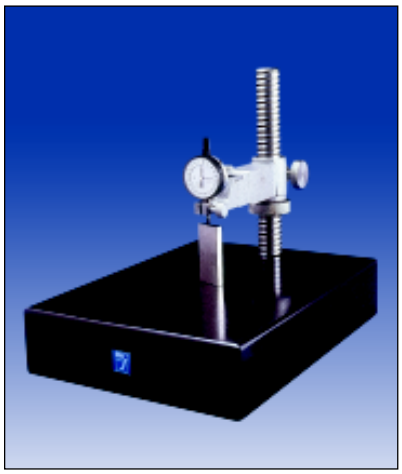
The serrated column has a knurled thumb nut which permits rapid up and down movement of indicator bracket assembly and acts as a safety device, preventing accidental dropping of the indicator bracket assembly. Fine indicator setting is made by turning a fine adjustment knob on the indicator bracket.

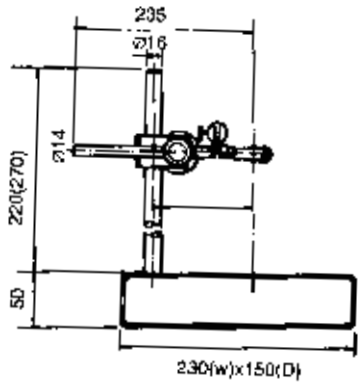
Clamping stem diameter : 8 mm
Maximum working height : 200 mm
Fine adjusting range : 1mm
Mass Kg : 10

Bench Dial Comparator Stand
- Code No. 1260

This Bench Type Dial Comparator Stand is meant for larger diameter components and has got a serrated column with knurled thumb nut with fine adjustment dial indicator holding bracket assembly.

Clamping stem diameter : 8mm
Maximum working height :200mm
Fine adjusting range : 1mm
Mass Kg : 35





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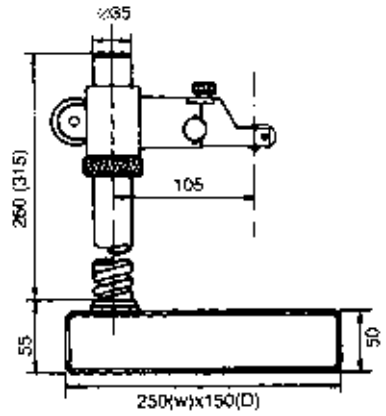

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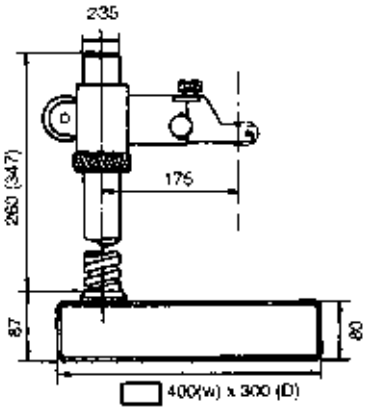
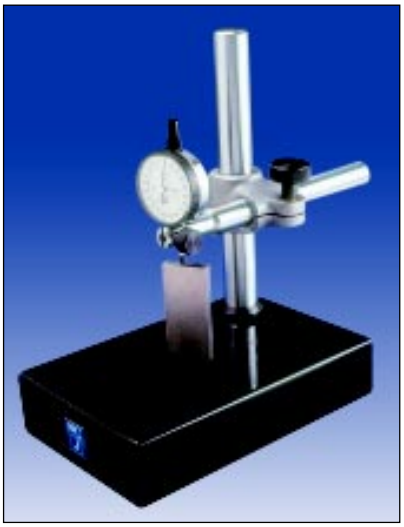


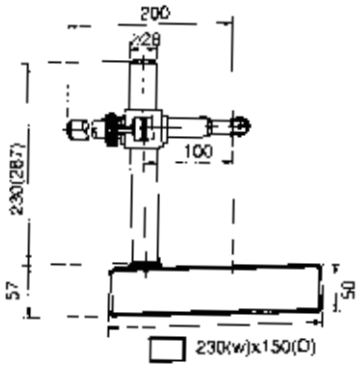
1260

Maxi Dial Indicator Stand
- Code No. 1220

This Granite Base Dial Indicator Stand has a Black Granite base. Vertical Column and Horizontal arm provides Maximum rigidity and convenience of measurement for the entire indicator assembly.

Clamping stem diameter : 8 mm
Maxi working height :150 mm
Fine adjusting range : ENTIRE STROKE
Mass Kg : 8





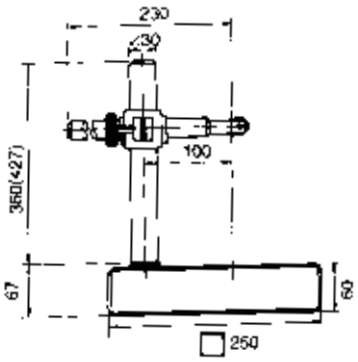
1220

Large Maxi Dial Indicator Stand
- Code No. 1240 & 1250

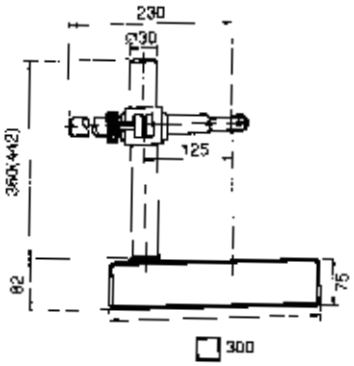
Large Maxi-Dial Comparator Stands are ruggedly built for inprocess and final inspection work of large components. They are provided in two different base sizes.

For code No. 1240
Clamping stem diameter : 8 mm
Maxi working height :300 mm
Fine adjusting range : ENTIRE STROKE
Mass Kg : 14

For code No. 1250
Clamping stem diameter : 8 mm
Maxi working height :300 mm
Fine adjusting range : ENTIRE STROKE
Mass Kg : 18



1240



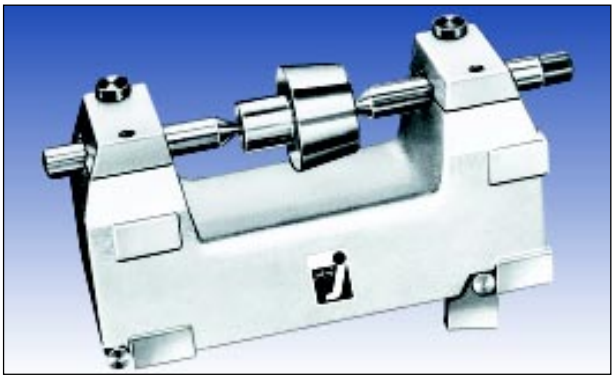
1250

Universal Measuring Block

For checking concentricity, parallelism, axial run-out, taper angle and taper from. Built-in sine rollers allow quick and easy taper angle and taper form measure-ments in conjunction with gauge blocks. It may also be used for layout work, in conjunction with indicator stands and surface plates.

Removable centres, extra long parts can be mounted directly on V ways.

Centre distance : 0-200 mm
Height of centres : 75 mm
Centre distance of sine rollers : 300 mm



Granite Surface Plates

A crystallin rock, has a fine grained, nonporous texture. It is crystallin throughout and the composition is hard and compact. Granite does not have the soft in-between spaces and has therefore a much higher wear resistance plus a higher degree of flatness accuracy.

The material strength of Surface Plate is three times greater than that of ordinary granite and is super rigid. This Surface Plate has a very low expansion coefficient (5 x 10-6 meter per degree), which makes it least responsive to temperature changes.

100 per cent corrosion-proof and acid resistant. Non-magnetic and easy to clean. No oiling required which is mandatory on cast iron surface plate and with non-glaring satin finish.

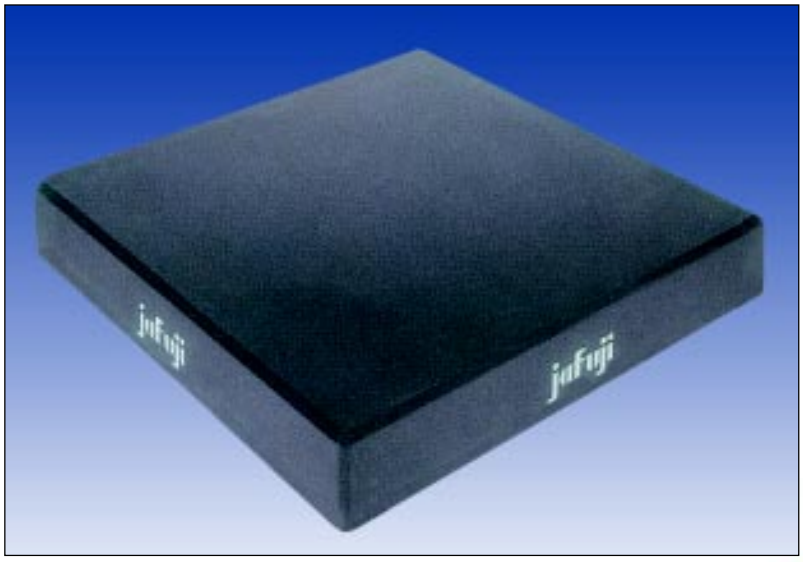
These plates are inspected through Electronic level Processing System of M/s. Wyler, Switzerland, to ensure the accuracy and flatness.

Plates are supplied with a calibration certificate traceable to National Standards showing graphic display of the fastness. The plates are manufactured by high precision lapping method providing 45^0 champering at edges & corners to avoid chip off and cracks.

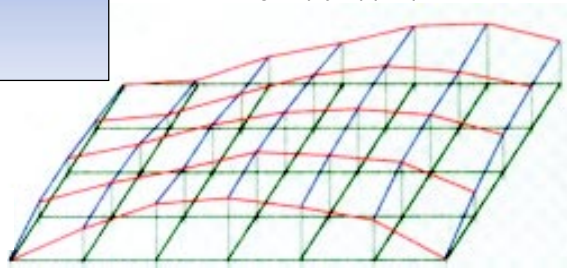
We can supply MS fabricated stand with leveling screws for the respective plates.

SIZES AVAILABLE				
Length	**Width**	**Thickness**	**Accuracy as per IS-7327-1991 Grade '0'**	**Approx. Weight in Kgs.**
400 mm	400 mm	60 mm	4.5 um	30
630 mm	400 mm	80 mm	5.0 um	65
630 mm	630 mm	80 mm	5.0 um	100
1000 mm	630 mm	150 mm	6.0 um	295
1000 mm	1000 mm	150 mm	7.0 um	470
1600 mm	1000 mm	200 mm	8.0 um	1000
2000 mm	1000 mm	200 mm	9.5 um	1300

Different sizes are available on request.



Surface grid (wyler)/philips/ISO 1101



Granite Square

Two working surface and four working surface available

Granite Square are used to check the squareness on machine tools or metrology room. Large models are provided with grip holes

Different sizes are available on request.

SPECIFICATIONS

Dimensions in mm

(L x B x H)

150 x 100 x 30
200 x 150 x 30
300 x 200 x 40
400 x 250 x 50
630 x 400 x 60
800 x 500 x 80
1000 x 630 x 100

Granite Parallel

Granite Parallel are supplied in matched pair to the accuracies given in the table. Parallels will not mark the surface of the components being checked. They are extremely hard wearing and with normal care, will retain accuracy over many ears.

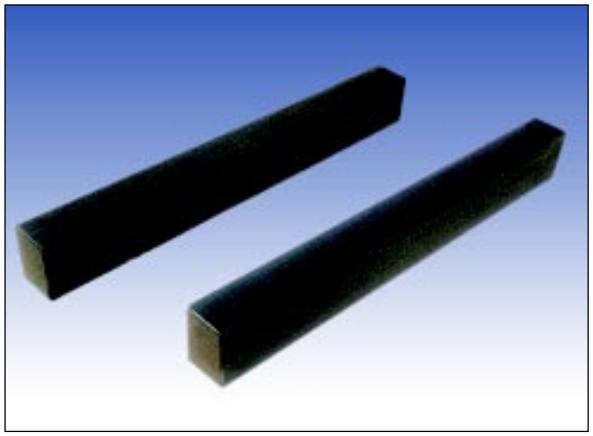
Different sizes are available on request.

SPECIFICATIONS

Dimensions in mm

(H x L x B)

100 x 30 x 20
100 x 40 x 25
100 x 50 x 25
150 x 25 x 25
150 x 50 x 25
150 x 50 x 25
150 x 70 x 50
150 x 80 x 40
200 x 100 x 50
300 x 100 x 50



Plain Setting Masters

Application :

1. To set the dial comparator stand to required size. This eliminates the cost of Slip Gauges,

2. To set a floating carriage, diameter measuring machine while checking thread gauges.

Range : 1 .. to 150 mm

Specifications :
As per IS 4349 : 1987

Tolerance on diameter will be + 0.001 mm lapped to high surface finish and calibrated at 2^0C.

Heavy Duty Highprecision Bench Centre

Surface table and centre heads are made from closed grained iron castings, seasoned, stress releaved and finished on the working face and reference side edge of the table by hand scrapping to meet with the required accuracy's as per ISI Standards.

The centre stock spindle bearings are smooth lapped to ensure accuracy of the spindle height and relationship to reference side edge. The centres are hardened high carbon steel accurately ground on the diameter and conical point.

One centre is spring loaded to accommodate small variations in component length. Tee slot at 45^0 angle on the surface table and teebolt through hole at the base of the centre stocks to ensure firm engagement with the reference side edge of the table. Each centre stock can be locked in any position along the tee slot by means of knurled hand knobs.

Code No.	Admit Between Centre	Height of Centre	Morse Taper	Mass Kg.
3010	300 mm	125 mm	MT-3	48
3020	500 mm	125 mm	MT-3	76
3030	500 mm	160 mm	MT-3	105
3040	500 mm	200 mm	MT-3	107
3050	750 mm	160 mm	MT-3	131
3060	750 mm	200 mm	MT-3	137
3070	1000 mm	160 mm	MT-3	138
3080	1000 mm	200 mm	MT-3	142
3090	1250 mm	160 mm	MT-3	200
3100	1250 mm	200 mm	MT-3	202
3110	1500 mm	160 mm	MT-3	204
3120	1500 mm	200 mm	MT-3	206
3130	1500 mm	250 mm	MT-3	211

Casting : Grade 20 of IS 210-1962 with minimum hardness of 180 HB.

Centres : Quality steel of hardness of 750 HV.

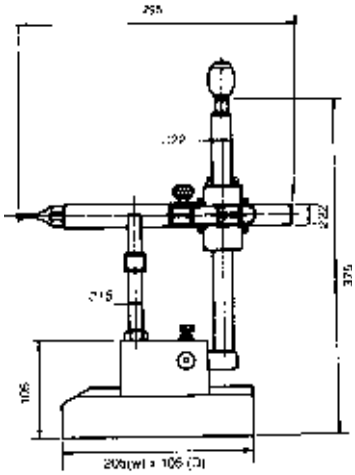
Co-ordinated clamping : Fine functional casting. Pre-loaded spring with length adjustment by a micrometric knob seasoned castings. Spring loaded centre on one side.

Gear Test Attachment
- Code No. 3000

This gear test attachment is ideal and economical for checking of gear pitch diameters. It is designed for easy mounting with bench centre.

Mass Kg : 12 kg

Ball points and dial gauge not included.

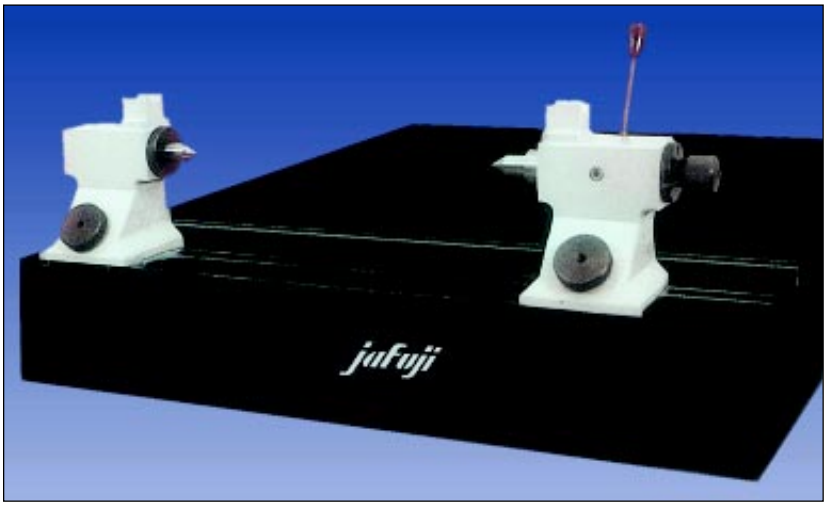


3000

Granite Base Bench Centre

An innovation to the regular Bench Centre. Granite Bench Centre is 100 percent corrosion proof, fast and easy to clean.

Sizes available on request.



Mini Bench Centre
- Code No. 2010

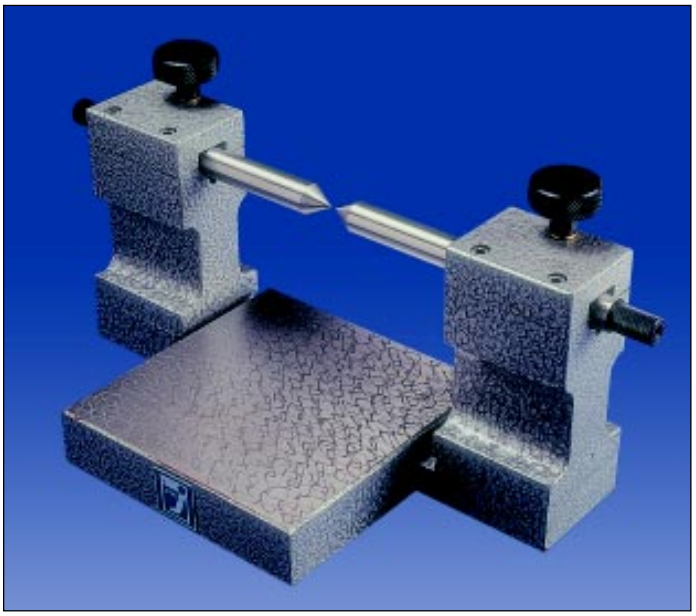
The ideal Centre for checking small components such as pinions, shafts gear blanks etc., to the highest degree of precision. Centres are reversible to provide either male or female centres or a combination of both thus giving great versatility. The elimination of springs avoids the bowing or centre damage of delicate or miniature components.

Admit between center : 150 mm

Height of centre : 75 mm

Working surface : 150 X 150 mm

Mass Kg : 10



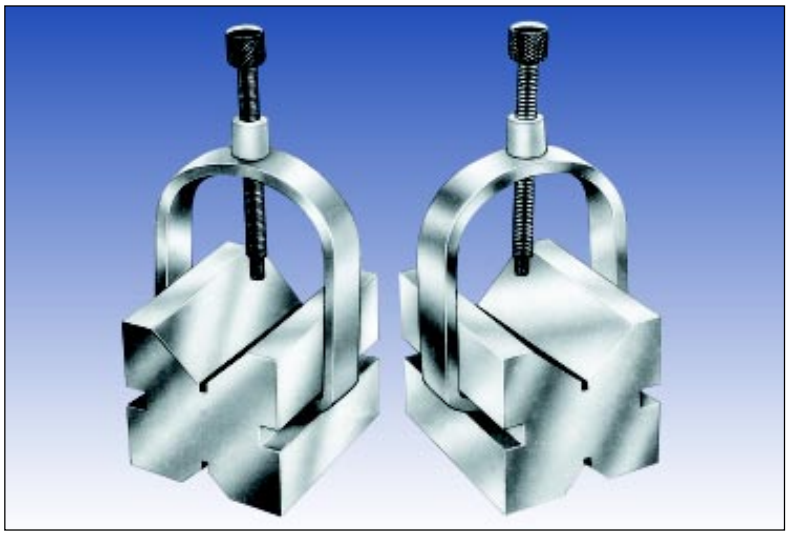
Hardened V Blocks

The V-Blocks have means of the clamp so that the work can be held tight in the block. The accuracy of parallelism of the 'V' with the bottom, its squareness to the two end faces and the maximum permissible variation in height between two V-blocks in a pair, is within +/- 3 microns.

All Hardened V Blocks are supplied along with calibration certificate traceable to national standard.

Specification:

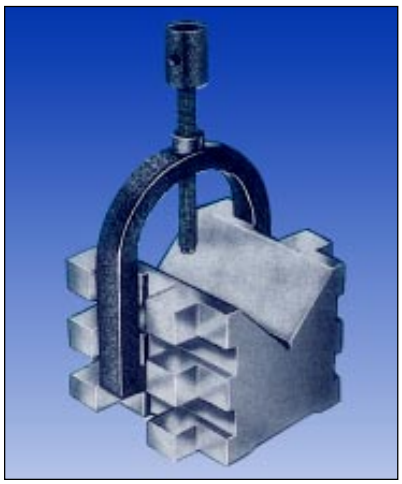
Model	Clamping Range	Size
JV401	5-30 mm	50 x 40 x 40 mm
JV402	6-50 mm	80 x 63 x 63 mm
JV403	6-70 mm	100 x 80 x 80 mm



V Block Hardened (with clamp)

Hardened and ground on all working surfaces to an accuracy within 0.005 mm

Size : 70x50x60 mm (2.3/4" x 2" x 2.3/8")
Capacity : 50 mm dia (2")



Magnetic V Blocks

It has total 3 magnetic surfaces i.e., the top and bottom each with 90 degree V angle and the end surface is opposite to the switch. All the 3 magnetic surface are accurately ground and care has been taken as such to be to used in dry as well as wet machining operations.

The permanent magnet is housed in such a way that all the three magnetic surfaces are activated simultaneously during 'ON' position of the knob. The High power magnetized surfaces hold any ferrous surface.

From quality aspect the accuracy for flatness, parallelism and squareness is within 5 microns. All Jafuji Magnetic V blocks are supplied along with calibration certificate traceable to national standards.

Specification:

Model	Product	Size (mm)	Pull Kg.
JMV205H	6" Hardened	150x100x75	125
JMV205S	6" Standard	150x100x75	125
JMV201H	4" Hardened	100x95x70	100
JMV201S	4" Standard	100X95X70	100
JMV203H	3" Hardened	75X75X56	75
JMV203S	3" Standard	75X75X56	75

Magnetic Stands

Heavy Duty
- Code No. JMB101

This Magnetic Stand has Heavy duty main post. Two magnetic bakelite knobs with universal holders. Dial universal holder for stem of dia 3mm to 11mm

Dia : 18 mm
Length : 235 mm
Height : 295 mm
Base size : 50 x60 x 60 mm

Standard
- Code No. JMB102
(Similar to Mitutoyo 7010)

This Magnetic Stand has two shafts with bakelite knobs. Ideal for regular production use. Accepts dial gauges of stem dia 8 mm & 4 mm

Dia : 12 mm
Length : 180 mm
Height : 240 mm
Base size : 50 x 60 x 60 mm

Magnetic Stand
- Code No. JMB103

This Magnetic Stand is almost similar to JMB 102, but fine adjustment with hardened clamp and roller for quick setting.

Main Shaft : 12 mm x 180 mm
Height : 240 mm
Base size : 50x60x60 mm

Magnetic Stand
- Code No. JMB106

On this Magnetic Stand the dial gauge can be locked in any desired position via centralized clamping. There is large radius of 260 mm. The clamping hole in intended for dia 6 mm stem and there is a dovetail clamp seating for Dial Test Indicators. Fine Adjustment has been provided.

Base size : 50 x 60 x 60 mm

Flexible Arm
- Code No. JMB104

This Magnetic Stand is versatile model with flexible arm and locking lever. Very useful for inaccessible areas. Its universal holder for dial gauge of stem dia 4 mm to 8 mm

Flexible Shaft : 300 mm
Height : 350 mm
Base : 50 x 60 x 60 mm

Dial Calibration Tester

This versatile instrument for periodic calibration of Plunger type, Black Plunger type, Lever type dial gauges and Bore Gauges. It is supplied both in imperial and metric system. **Electronic also available.**

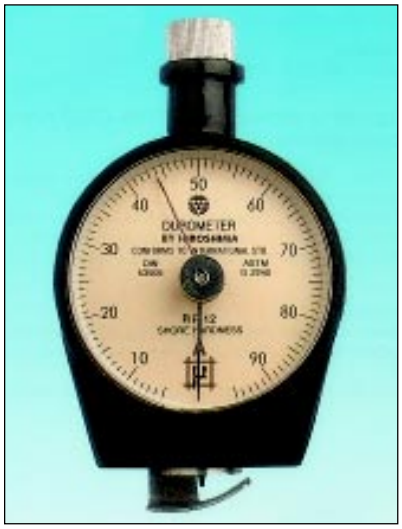
Models available :

Model 1.

Metric : Range - 0-25
(L. C. : 0.001 mm)

Imperial : Range - 0-1”
(L. C. : 0.001 “)

Shore Hardness Tester



Shore tester provide a fast and easy to read method of testing hardness on rubber, plastics, leather and other soft materials. Features include fast and easy reading portable enough to be easily handled or mounted on a stand (also available). The hardness tester are available in either Shore A or Shore D and supplied with a range/reference block and manufactured in accordance with specification DIN 53 505, ASTM D2240, IBO R/S68.

Technical data :

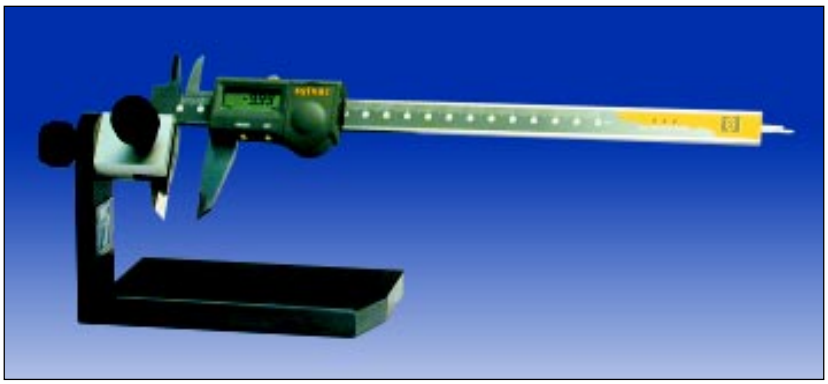
Graduation - 1-No.

Minimum area for measurement -18 mm

Dimension - 110x65x30 mm

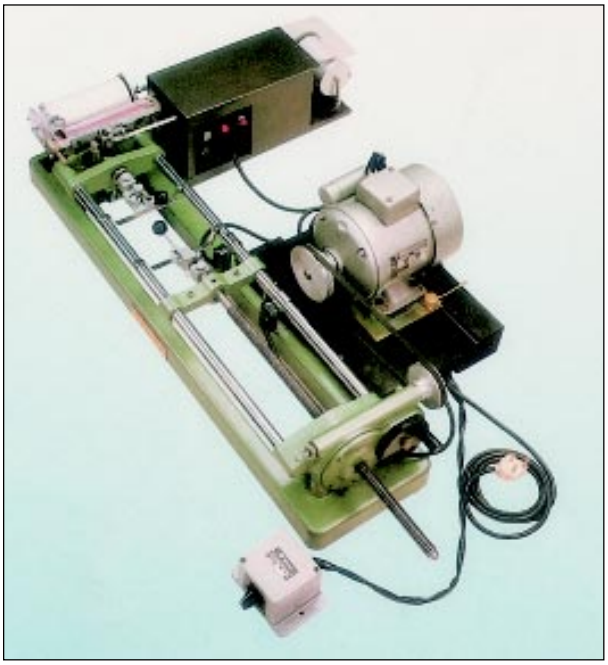
Packing - Wooden box.

DIGI-CAL Stand



A versatile stand with swiveling clamp device for holding calipers. It is specially designed for use with both digital and dial calipers of all brands. The stand is helpful particularly when measurement of small components is required.

Tensometer



(Table model Horizontal Tensile Testing Machine) Cap 2 tonne. The tensometer can be used to test a variety of materials such as metals, plastics timber, ceramics, etc. in tension, shear, compression and bending. Available with spring beams ranging from 300N to 20KN (31 $^{1}/_{4}$ Kgf to 2000 Kgf) the latter in each case being the maximum load of the machine.

A highly versatile testing system including tests for :

1. Elongation and tensile strength.
2. Shear and compressive strength.
3. Flexural, striping and tearing resistance.
4. Hardness.

With the machine, there is choice of over 100 accessories and attachments-chucks, grips, flexural, compression and indentation attachments to cover most of the varied requirements. The machine is compact, versatile, accurate and relatively inexpensive. It has a very high cost performance rating.

With overall dimensions of approximately 965 mm (L) x 235 mm (W) x 230 mm (H) and weight of 21 kg.

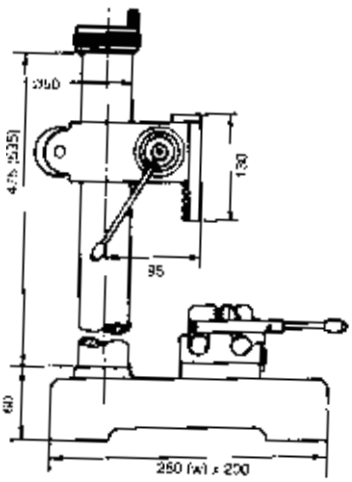
It can be powered or manually operated on any small laboratory or test-shop bench or table.

Push Pull Gauge Stand - Code No. 1710

Push Pull Gauge Stand is ideal for force gauge. Its loading lever can be set in any position by nine degree increments for operation. It's precisely machined rack and pinion as well as dovetailed slide assure smooth and precise motion. This can mount force measuring gauge or torque measuring gauge. Its gripping fixtures are available on request to suit the application. This stand has wire terminal grip and dual-roller self fighting grip.

Grips and Gauges are not included.

Mass Kg : 17

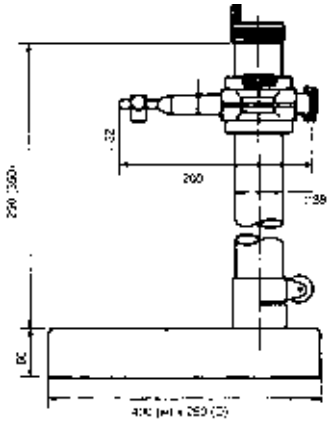


1710

Surf Test Stand
- Code No. 1810

The base is made from precisely lapped black granite stone and most ideal and economical stand for checking surface finish. Top end of the vertical column is provided with fine adjusting knob to facilitate easy height positioning.

Base Size : 400 x 250mm
Vertical column height : 220 mm
Vertical column Diameter : 38 mm
Mass Kg : 22



1810

Universal Surface Gauge

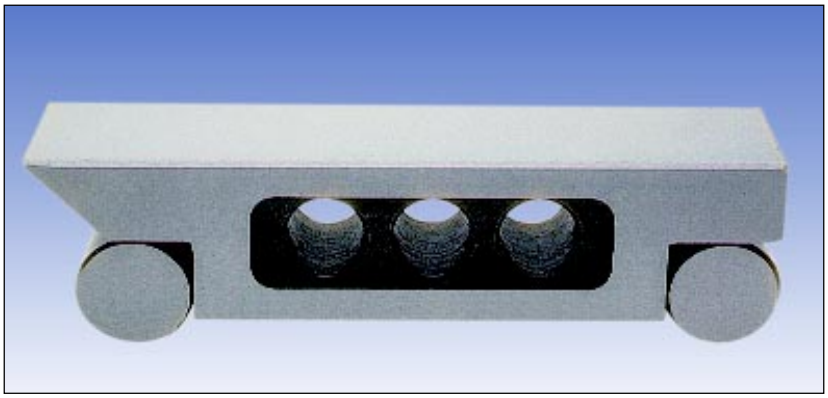
The base is made from case-hardened steel, ground on the bottom and at one end. The adjustment is made by a knurled thumb screw which is located at the end of the rocker. The rocker runs the 2/3rd length of the base and pivots against a stiff spring located at the rear end of the base.

Size : 300 mm, 450 mm, 600 mm, 1000 mm
Base : hardened and ground

Precision Sine bar

For accurate measurement and setting of angles using, gauge blocks. Manufactured with high quality steel, hardened, ground and precision lapped. Furnished in fitted wooden case.

Sizes : 100 mm, 200 mm, 300 mm



Plain Plug Gauges

Application : To check small and big bores.
Range : 0.3 to 1000 mm.

RANGE	TYPE
0.3 to 15.00 mm	Reversible pin type fixed in collets
15.01 to 35.00 mm	Reversible cylinder type- our standard design
35.01 to 65.00 mm	Disc double ended & design as per IS-6244 : 1980.
65.01 to 100.00 mm	Disc single ended design as per IS-6244 :1980.
100.01 and above	Plate single ended. Design as per IS-5388 : 1983.

Gauge manufacturing & tolerance : As per IS-3455 : 1971, BS-969 : 1963

Plain Snap Gauges

Application : To check small and big bores.
Range : 0.3 to 1000 mm.

Application : 1. To check thickness and with,
2. To check OD.
3. To check grove diameter.
Available in 2 types- single ended & double ended.

RANGE	TYPE
2.5 to 300 mm	Single ended - our standard design
2.5 to 100 mm	Double ended - our standard design
5 to 100 mm	Groove type snap

Gauge - as per customer's design and requirement.

Plain Ring Gauges

GO & NOGO Rings, Master Setting Rings

Application : 1.GO and NOGO rings gauges are used to check the OD of shafts.
2. Master setting rings to set dial bore gauges to the required size.

Range : 3.00 to 300 mm

Specifications : As per IS : 3485 : 1983 Ring Gauge are precision ground, lapped to high surface finish and calibrated at IS 20^{0}C.

Measuring Pins & Pin Sets
Thread Measuring Wires
Gear Measuring Wires

1. Measuring pins-pin sets.
Range : 0.3 - 20 mm

Available in standard sets of 01, 02, and 05 mm. Assorted sizes sets also can be supplied. Pins can be supplied with knobs also.

2. Thread Measuring Wires IS 6311-1978, two wires or three wires sets are normally available ex-stock. Range as per IS. Loose wire sets also can be supplied.

3. Gear Measuring Wires.

These are normally available in pairs (two pins O.D. within one micron).