Since - 1971



ATALO

PRECISION INSPECTION EQUIPMENTS

Effective From 15-05-2019







CAST IRON SURFACE PLATES

As Per IS: 2285-2003

SIZ	ZES
nm/	Inches

250 x 250 300 x 300/12"x12" 300 x 450/12"x18" 400 x 400 450 x 450/18"x18" 400 x 630 450 x 600/18"x24" 630 x 630/24"x24" 750 x 600 900 x 600/24"x36" 1000 x 630 900 x 900/36"x36" 1000 x 1000 1200 x 600 1200 x 900/36"x48" 1200 x 1200/48"x48" 1600 x 1000 2000 x 1000 1800 x 1200 1500 x 1500 2000 x 1500 2500 x 1500 2000 x 2000

3000 x 1000

3000 x 1500

3000 x 2000 4000 x 1000 5000 x 1000

- We offer a qualitative range of precision Cast Iron Surface Plate. These cast iron surface plates provide an accurate reference or datum plane for precision gauging, marking, inspection and tooling setup.
- Cast iron surface plates are made of good quality close grain cast iron as per IS-210:1993 conforming to grade FG-220.
- The meticulous manufacturing processes that are carried out at our premises make these surface plates apt for machine shops, quality control, and standard rooms.
- Our precision cast iron surface plates are used in the application where strict accuracy is required hence, these plates are appropriate for high precision work and are ideal for blue matching.
- Our surface plates are amply ribbed to ensure minimum deflection under load.
- Our team of qualified engineers carries out rigorous quality control inspection to test these surface plates as per IS-2285:2003 for flatness, repeatability, durability etc. The final inspection of surface plate is undertaken by a high precision computerized electronic level, WYLER SWISS make.

Maximum deviation from flatness over the entire area expressed in Microns as per IS 2285 – 2003

Some of the unique features of cast iron surface plates are:

- Our castings are stress relieved either by natural aging or by artificial seasoning.
- We also provide rexine cover for top surface protection.
- We offer fabricated stand with leveling screws. The overall working height of surface plate with stand and leveling screw will be 900 mm (approx), from floor level. Option for vibration pads to reduce vibration is also available.
- We provide computerized calibration certificate traceable to National Physical Laboratory (NPL, Government of India) New Delhi along with each surface plate.
- We also have an In-House NABL accredited Laboratory.

^{*} All Surface plates are provided with Rexin Cover

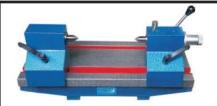


GRANITE SURFACE PLATES

As Per IS: 7327-2003

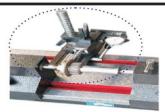
Sizes (mm)	Granite surface plates are manufactured using natural black granite stone, quarried from earth in its natural form. These plates are precision lapped to high standards of flatness to achieve accuracy and are used as bases for mounting sophisticated mechanical, electronic and optical
300 x 300 x 50	gauging systems. Our quality inspectors and engineers put a strict vigilance at all the stages of the production procedure to ensure high
400 x 400 x 63	quality plates. Further, the final inspection is carried out by a High Preci-
450 x 450 x 63	sion Computerized Electronic Level made by WYLER OF SWITZER-
630 x 400 x 80	LAND. Our range of Granite surface plates are utilized in Precision tool rooms, Engineering industries and Research laboratories.
630 x 630 x 80	Some of the unique features of our range of plates are:
900 x 600 x 100	Uniformity in Hardness Accurate under load conditions
1000 x 630 x 150	Vibration absorbent
900 x 900 x 100	• Easy to clean
1000 x 1000 x 150	Rust-proof ,Non-corrosive Thermal stability
1200 x 900 x 150	- Wron resistant
1200 x 1200 x 150	Low porosity Non-abrasive ,non-magnetic
1600 x 1000 x 200	These advantages make black granite surface plates inherently stable
2000 x 1000 x 200	and unmatchable against any other material.
1500 x 1500 x 200	These plates are supplied with computerized calibration certificate traceable to National Physical Laboratory (NPL, Govt Of India) New
2000 x 1500 x 200	Delhi .
2500 x 1500 x 200	Rexin covers are provided with each surface plate for protection of top surface.
2000 x 2000 x 250	Surface .
3000 x 1000 x 250	We provide fabricated stand with levelling screws on request by our
3000 x 1500 x 250	clients. The overall working height of surface plates with stand and levelling screw will be 900 MM (approx) from floor level.
3000 x 2000 x 300	
4000 x 1000 x 250	
5000 x 1000 x 300	

* All Surface plates are provided with Rexin Cover



CAST IRON BENCH CENTRES

As Per IS: 5980-1978



GEAR TESTER (PCD)

CENTRE	CENTRE	Product Details:	
DISTANCE	HEIGHT	Material = Cast Iron	
(mm)	(mm)	Brand = Luthra	
300	125	Tip Material = Carbide	
300	123	Usage = Industrial	
300	160	Operation Type = Manual	
500	160	Indian Standard IS 5980-1978	
500	200		
750	160	We offer a qualitative range of Cast Iron Bench Centers that are an accurate a	
750	200	quick method for inspecting radial run out of camshafts, crankshafts, and cylin cal shafts.	arı-
1000	160	These are manufactured as per IS:5980-1978.	
1000	200	Some of the salient features of our Bench centers: The base of the bench center and its heads are stress relieved.	
1250	160	One of the centers is spring loaded to ensure uniform pressure while holding a	and
1250	200	easy loading and unloading of work.	
1500	160	Centers are made from high carbon steel hardened and ground finish, having morse taper MT-3 and are replaceable.	
1500	200	Both heads are adjustable for easy and quick setting of the required distance	
2000	200	between centers.	
2000	250	The bed of the bench center is provided with two T-slots parallel to each other.	

CAST IRON MINI BENCH CENTRES

(Spring Loaded)
As Per IS: 5980-1978

CENTRE DISTANCE (mm)	CENTRE HEIGHT (mm)
150	75
225	75

GRANITE MINI BENCH CENTRES

(Spring Loaded) As Per IS: 5980-1978





GRANITE COMPARATOR STANDS

MODEL*	BASE SIZE (mm)	BASE TYPE	GAUGING BRACKET	MEASURING HEIGHT (mm)
LGS-1	100 x 150	PLAIN	CENTRE	100
LGS-2	100 x 150	PLAIN	FINE ADJ.	100
LGS-3	100 x 150	SERRATED	CENTRE	100
LGS-4	100 x 150	SERRATED	FINE ADJ.	100
LGS-5	150 x 150	PLAIN	CENTRE	100
LGS-6	150 x 150	PLAIN	FINE ADJ.	100
LGS-7	150 x 150	SERRATED	FINE ADJ.	100
LGS-8	250 x 150	PLAIN	CENTRE	150
LGS-9	250 x 150	PLAIN	FINE ADJ.	150
LGS-10	250 x 150	PLAIN	ECCENTRIC	150
LGS-11	250 x 150	SERRATED	CENTRE	150
LGS-12	250 x 150	SERRATED	FINE ADJ.	150
LGS-13	250 x 150	SERRATED	ECCENTRIC	150
LGS-14	300 x 200	PLAIN	CENTRE	200
LGS-15	300 x 200	PLAIN	FINE ADJ.	200
LGS-16	300 x 200	PLAIN	ECCENTRIC	200
LGS-17	300 x 200	SERRATED	CENTRE	200
LGS-18	300 x 200	SERRATED	FINE ADJ.	200
LGS-19	300 x 200	SERRATED	ECCENTRIC	200
LGS-20	300 x 300	PLAIN	CENTRE	250
LGS-21	300 x 300	PLAIN	FINE ADJ.	250
LGS-22	300 x 300	PLAIN	ECCENTRIC	250
LGS-23	300 x 300	SERRATED	CENTRE	250
LGS-24	300 x 300	SERRATED	FINE ADJ.	250
LGS-25	300 x 300	SERRATED	ECCENTRIC	250
LGS-26	300 x 300	PLAIN	DOUBLE ECCENTRIC	250
LGS-27	300 x 300	PLAIN	UNIVERSAL ARM	250
LGS-28	400 x 400	PLAIN	CENTRE	300
LGS-29	400 x 400	PLAIN	FINE ADJ.	300
LGS-30	400 x 400	PLAIN	ECCENTRIC	300

Eccentric: Horizontal & Vertical movement of Dial Indicator

*Price Without Dial Indicator





As Per IS: 5980-1978

CENTRE	CENTRE	CENTRE	CENTRE
DISTANCE	HEIGHT	DISTANCE	HEIGHT
(mm)	(mm)	(mm)	(mm)
300	125	500	200
300	160	750	160
500	160	750	200

Product Details:

We hold pleasure in presenting ourselves as one of the significant manufacturers, suppliers and exporters of Mini Bench Centre Granite Base. This mini bench center is made with naturally occurred black granite stone. Each product is featured with two cast iron made heads, mounted towards vertical direction. Offered product is ideally useful in measuring parallelism and concentricity of different rotational components. Mini Bench Centre Granite Base, we offer is highly demanded for the below enlisted attributes:

- · High thermal stability
- Low porosity
- Corrosion resistance
- Vibration-free performance

Other details:

Mini Bench Centre Granite Base

Granite Mini Bench Centre is made of black granite base which is naturally seasoned and provide better finish and accuracy .T-Slot made of steel is fixed within granite base on which two cast iron heads are mounted, both the heads can be moved to the desired positions depending upon the size of component to be checked. One of the centre is spring loaded to ensure uniform pressure while holding work piece and easy loading and unloading without disturbing the accuracy of the centres.

Luthra Granite Mini Bench Centres are specially designed for checking concentricity, parallelism and true rotations of components having smaller dimensions. These are widely used in industries manufacturing smaller CNC turned automobiles parts, watch spares and microscopic parts etc. where higher accuracies are required. Centres are made from high carbon steel hardened and ground finish, having morse taper MT-1 and are replaceable.

Cast iron heads are artificially stress relieved to avoid distortions. Granite base have outstanding advantages over cast iron base.

- · Hardness uniformity.
- · Accurate under load conditions.
- Vibration absorbent.
- Easy to clean.
- Rustproof, Noncorrosive.
- · Wrap resistant.

Each Luthra granite mini bench centre is provided with computerised calibration certificate traceable to NPL (Govt. Of India)





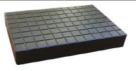


CAST IRON COMPARATOR STANDS

MODEL*	ANVIL SIZE (mm)	ANVIL TYPE	GAUGING BRACKET	MEASURING HEIGHT (mm)
LCS-1	DIA 60	HARDENED	CENTRE	100
LCS-2	DIA 60	HARDENED & SERRATED	FINE ADJ.	100
LCS-3	70X70	HARDENED	CENTRE	100
LCS-4	70X70	HARDENED & SERRATED	FINE ADJ.	100
LCS-5	100X125	HARDENED	CENTRE	150
LCS-6	100X125	HARDENED	FINE ADJ.	150
LCS-7	100X125	HARDENED & SERRATED	FINE ADJ.	150
LCS-8	100X125	HARDENED & SERRATED	ECCENTRIC	150
LCS-9	150X150	CAST IRON	CENTRE	150
LCS-10	150X150	CAST IRON	FINE ADJ.	150
LCS-11	150X150	HARDENED & SERRATED	FINE ADJ.	150
LCS-12	225X150	CAST IRON	CENTRE	200
LCS-13	225X150	CAST IRON	ECCENTRIC	200
LCS-14	225X150	CAST IRON & SERRATED	FINE ADJ.	200
LCS-15	225X150	HARDENED	CENTRE	200
LCS-16	225X150	HARDENED	FINE ADJ.	200
LCS-17	225X150	HARDENED & SERRATED	ECCENTRIC	200
LCS-18	200X200	CAST IRON & SERRATED	CENTRE	200
LCS-19	200X200	CAST IRON	FINE ADJ.	200
LCS-20	200X200	CAST IRON	ECCENTRIC*	200
LCS-21	200X200	HARDENED	CENTRE	200
LCS-22	200X200	HARDENED	ECCENTRIC	200
LCS-23	200X200	HARDENED & SERRATED	FINE ADJ.	200
LCS-24	300X200	HARDENED & SERRATED	FINE ADJ.	250
LCS-25	300X200	HARDENED & SERRATED	ECCENTRIC	250
LCS-26	300X250	HARDENED	CENTRE	250
LCS-27	300X250	HARDENED & SERRATED	ECCENTRIC	250
LCS-28	300X300	CAST IRON	CENTRE	250
LCS-29	300X300	CAST IRON	FINE ADJ.	250
LCS-30	300X300	CAST IRON	ECCENTRIC	250
LCS-31	300X300	CAST IRON	Double ECC.	250
LCS-32	300X300	HARDENED	FINE ADJ.	250
LCS-33	300X300	HARDENED	ECCENTRIC	250

Eccentric : Horizontal & Vertical movement of Dial Indicator

*Price Without Dial Indicator

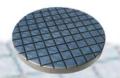


SIZES (mm)	SIZES (mm)
150 x 100 x 50	400 x 400 x 63
250 x 150 x 50	630 x 400 x 80
300 x 200 x 50	630 x 630 x 80
300 x 300 x 50	

GRANITE LAPPING PLATES

As Per IS: 7327 - 2003

We provide Granite Lapping Plates that are used for accurate hand lapping of material such as nylon, plastics, ceramics and other non-ferrous material. These are available in Square and Rectangular sizes and are made up of black granite. Each of the plates has 3 mm wide and 3 mm deep serrations on working surface equally spaced at 25 mm and have lapped surface finish.





CAST IRON LAPPING PLATES

As Per IS: 2285 - 2003

ROUND SIZE (mm)	SIZE (mm) L x W
100	200 x 200
150	250 x 250
200	300 x 300
250	400 x 400
300	450 x 450
400	600 x 450
450	600 x 600
600	900 x 600
900	1000 x 1000

We provide our clients with qualitative Cast Iron Lapping Plates that are used for accurate hand lapping of various materials like nylon, plastics, ceramics and other non-ferrous material. These cast iron lapping plates are available in round and rectangular sizes and have 3 mm wide and 3 mm deep serrations on working surface equally spaced at 25 mm. Our iron lapping plates are manufactured using closed grain graded casting as per IS 210: 1993 confirming to Grade FG- 220.

STRAIGHT EDGES

Engineer's (Steel) Flat Section

As Per IS: 2220 - 1991 (GRADE-I)



Product Description

Backed by our five decades of colossal industry experience, we sustain to come up with an impeccable range of Engineer's Steel Straight Edges. These edges are manufactured using superior quality mild & carbon steel in close sync with international quality norms. Offered edges are handy to check-out the desired hardness, straightness and parallelism of the applied subject material. Our clients can avail these steel edges in different patterns, dimensions and specifications. Engineer's Steel Straight Edges, we offer are high in demand among the clients for the below enlisted attributes:

High precision measurement Easy handling Simpler operations Hassle-free performance

Bevelled Edge 30% Extra/

^{*} Provided with wooden safe storage box.

SIZES (mm) (L × H × W)	SIZES (mm) (L x H x W)
600 x 40 x 8	2000 x 70 x 14
1000 x 45 x 10	2500 x 70 x 14
1200 x 45 x 10	3000 x 70 x 18
1500 x 55 x14	4000 x 90 x 18

* Provided with wooden safe storage box.

ALUMINIUM LIGHT WEIGHT STRAIGHT EDGES (Flat Section)

As Per IS: 2220 - 1991



SIZES (mm) (L x H x W)	SIZES (mm) (LxHxW)
500 x 100 x 40	3500 x 300 x 75
1000 x 100 x 40	4000 x 300 x 75
1500 x 150 x 50	5000 x 300 x 75
2000 x 150 x 50	6000 x 300 x 80
2500 × 220 × 60	7000 v 400 v 80

C.I. STRAIGHT EDGES

I - Section (Parallel Type)

As Per IS: 5268 - 1991



We are one of the well-known manufacturers of Cast Iron Straight Edges that are widely used for erection, commissioning and leveling purpose. I- section straight edges is used to checking the surface flatness of large precision area such as surface tables and machine tables etc. Cast iron straight edges are also used for blue matching during hand scrapping operations .I-section straight edges have the wide and parallel working surface for application of spirit level. Luthra I –Section straight Edge are made as per IS 5268:1991 Grade-1.

Luthra Cast Iron I-Section Straight Edges are made of good quality closed grain cast iron strictly as per IS 210:1993 confirming to Grade FG-220.

Castings are stress relieved either by natural ageing or by artificial seasoning.

8000 x 400 x 80

Hardness 170-220 BHN.

3000 x 220 x 60

Hand scrapped for surface finish of Grade-1 accuracy.

* Provided with wooden Protection cover

SIZES (mm) (L x H x W)	SIZES (mm)
1000 x 110 x 50	3000 x 110 x 50
1500 x 110 x 50	3500 x 110 x 50
2000 x 110 x 50	4000 x 150 x 50
2500 x 110 x 50	5000 x 150 x 50

Provided with wooden safe storage box and Protection cover

ALUMINIUM LIGHT WEIGHT STRAIGHT EDGES (Parallel Type)

With Steel Re-inforced Working Surfaces As Per IS: 2220 - 1991





GRANITE SQUARE (Triangular)

	SIZE (mm)
300	x 200 x 60
400	x 250 x 60
630	x 400 x 60
100	0 x 630 x 100



GRANITE MASTER SQUARE

SIZE (mm)	
300 x 300 x 60	
400 x 400 x 60	
630 x 630 x 80	
1000 x 1000 x 100	



C.I MASTER SQUARE



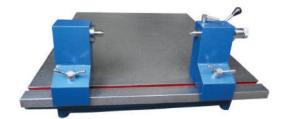
GEAR ROLL TESTER

Maximum Gear Dia-200mm

BASE SIZE (mm)
450 x 140

SURFACE ROUGHNESS TESTER STAND (Granite Base)

SIZE (mm) 400 x 250



C.I. SURFACE PLATES WITH BENCH CENTRE

As Per IS: 2285-2003 & 5980-1978



GRANITE SURFACE PLATE WITH BENCH CENTRE

As Per IS: 7327-2003 & 5980-1978



UNIVERSAL BENCH CENTRE VERTICAL CUM HORIZONTAL

To Be Used on Surface Plate Only



UNIVERSAL BENCH CENTRE

VERTICAL CUM HORIZONTAL (with Lead Screw & Hand Wheel)

To Be Used on Surface Plate Only



SINE CENTRE

As Per IS: 5979-1981



SINE BAR

As Per IS: 5359-1983

TILTING TABLE

(Tilting Angle 0°-45°)

STEEL PARALLELS

As Per IS: 4241 - 1967

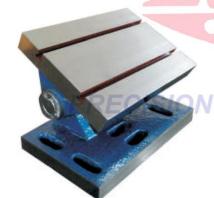




GRANITE PARALLELS

SWIVEL ANGLE PLATES

(Tilting Angle 0°-90°)



NSPECTION E MAGNETIC V BLOCKS (Hardened)



RADIAL DRILL BOX TABLES



MAGNETIC V-BLOCKS (Unhardened)



BOX ANGLE PLATES

As Per IS: 6232 - 1971

SLOTTED ANGLE PLATES

As Per IS: 2554 - 1991





CAST IRON CUBES

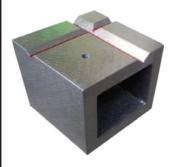
PLAIN ANGLE PLATES

As Per IS: 2554 - 1991



CAST IRON CUBES WITH 90° VEE-GROOVE SPECTION EQ As per IS: 2554 - 1991

T-SLOTTED ANGLE PLATES



GRANITE CUBES WITH 90° VEE-GROOVE



C.I. RIGHT ANGLE









C.I CLAMPING PALLETS

(Sub Tables)
FOR CNC MACHINES

As Per IS: 2285-2003

ID - OD TESTER





TEST MANDRELS

(Hard Chrome Finish) As Per IS: 2063 - 1962





MASTER CYLINDERS

(Cylindrical Square)

(Hard Chrome Finish) As Per IS: 6952 - 1990

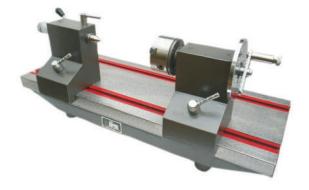
SPECIAL TYPE BENCH CENTRES



MOTORIZED STRAIGHTNESS AND MANUAL PERPENDICULARITY
CHECKING ATTACHMENT



MOTORIZED STRAIGHTNESS AND RUNOUT CHECKING ATTACHMENT

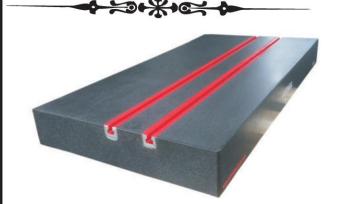


BENCH CENTRE WITH CHUCK



MANUAL STRAIGHTNESS AND RUNOUT CHECKING ATTACHMENT

← >== **



GRANITE SURFACE PLATE WITH T-SLOTS



CAST IRON BED PLATE



V-MACH INTERNATIONAL

Ground Floor, C-112 Nangloi Extn. West Delhi, Delhi-110041

Ph.: +91 8076769893, +91 8851865180

E-mail: vmachinternational@gmail.com