

LAPPING / BENCH PLATE

SERIES 462:

10" x 14" x 2-3/4" Height
Precision ground on one side,
grooved on the other side.

Order No.	2565000
Price	



PORTABLE HARDNESS TESTERS

SERIES 251:

This low cost auxiliary hardness tester covers the entire range of heat treated steel from 20 to 65 RC hardness on the Rockwell C Scale. Can be used on any flat piece with a thickness of several inches down to 1/4". Will not mar the surface of parts. 11" high x 2-1/4" dia. base.



Order No. 1705600

Price

HARDNESS TESTERS - ROCKWELL SYSTEM

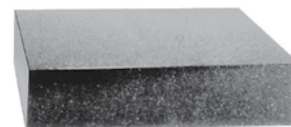
SERIES 251:

Hardness Testers are designed and manufactured for measuring hardness of metals and alloys of all kinds, hard or soft whether flat, round or irregular in shape. These testers are simple in design and easy to operate, yet sensitive and accurate testing results can be obtained. They are ideally suitable for laboratories, tool rooms, inspection and heat treatment departments, factories, schools, etc. These testers conform to IS:3804-1966 and BS:891-962 part I and part II for Rockwell testing.



SURFACE PLATES - BLACK GRANITE

SERIES 649:



STANDARD ACCESSORIES

- 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 Penetrator • Rockwell A Test Block
- Rockwell B Test Block • Rockwell C Test Blocks (3pcs.)
- Screwdrivers (2pc.) • Instruction Manual • Dustproof Cover

FEATURES

- Automatic weight selection

SPECIFICATIONS

Maximum Load (kgf.): 150
Load Range (kgf.): 60, 100, 150
Initial Range Load (kgf.): 10
Maximum Test Height: 4-1/4"
Depth of Throat: 5-1/4"
Size of Base: 7x18"
Machine Height: 24-1/2"
Approx. Net Weight: 150 lbs.

Mitutoyo & Starrett Hardness Testers available. See our website or inquire.



Order No. 1705500

Price

- Lowest temperature coefficient, least responsive to temperature changes.
- Moisture and corrosion free, no rusting, no oiling, will not stain or discolor.
- Practically maintenance free, fast easy to clean.
- Smooth "Ball Bearing" surface.
- Resists dust and abrasives, non-magnetic.

TOOL ROOM ("B") GRADE - 0 LEDGE

Size	T	± A	Lbs.	Order No.	Price
9 x 12"	2"	.0001"	30	6491011	
12 x 18	3	.0001	75	6491115	
18 x 24	3	.00015	140	6491152	
24 x 36	4	.0002	430	6491203	
36 x 48	4	.0004	800	6491304	

INSPECTION ("A") GRADE - 2 LEDGE

12 x 18"	3	.00005"	70	6493115	
18 x 24	3	.000075	135	6493152	
24 x 36	4	.0001	365	6493203	
36 x 48	6	.0002	1140	6493304	

T - Thickness ±A - Overall Lateral Accuracy

DIAMOND PENETRATOR - ROCKWELL SYSTEM

SERIES 251:

Fits all models.

Order No. 1705100

Price



GRANITE SURFACE PLATE STANDS

SERIES 649:

- Overall working height 36"
- With 4 leveling screws
- Support all grade surface plates



HARDNESS TESTER FILES

SERIES 251:

SET INCLUDES:



Order No. 637750

Price

Color	Nominal	Actual Hardness
Red	RC40	RC40-42
Yellow	RC45	RC45-47
Light Green	RC50	RC50-52
Green	RC55	RC55-57
Blue	RC60	RC60-62
Black	RC65	RC64-66

The Hardness Tester Tat Fits in Your Pocket

Set of 6 pieces to check the hardness of metals in range of RC40 to RC65. Compact and easy to check the hardness of steel materials which can not be measured by testing machines. Convenient to check the hardness of material before cutting (Milling, Turning, Drilling, etc.) jobs. Convenient to check the hardness during/after heat treatment process. Each of 6 pieces is fitted with distinctive color coded and non-slip grip.

Size	Weight	0-ledge	2-ledge	Price
18x24"	100 lbs.	6499000	6499100	
24x36"	110 lbs.	6499001	6499101	
36x48"	210 lbs.	6499002	6499102	



BLACK GRANITE SURFACE PLATES

SERIES 140:



Traceable to N.I.S.T.
Fed. Spec. GGG-P-463c



Special Sizes
quotes on request.

2 - LEDGE

All prices are FOB California.

OVERALL FLATNESS

The overall flatness specifications of STAR USA Granite products meet and surpass the requirement set forth by Federal Specification GGG-P-463c. This publication defines the three standard grades of tolerance for surface plates as follows:

- AA - Laboratory Grade:** For high precision operations in consistent temperature gauging rooms and metrology departments.
- A - Inspection Grade:** For general use in quality control areas.
- B - Toolroom Grade:** For shop work and production checking.

SURFACE PLATES AA LABORATORY GRADE							
Size W x L x T	O - LEDGE		2 - LEDGE		Overall Accuracy	Repeat Reading	Shipping Weight lb
	Order No.	Price	Order No.	Price			
8x12x2	1405001		-		+/- .000025	+/- .000017.5	28
9x12x3	1405002		-		+/- .000025	+/- .000017.5	40
12x12x3	1405003		-		+/- .000025	+/- .000017.5	54
12x18x3	1405004		1405019		+/- .000025	+/- .000017.5	81
18x18x4	1405005		1405020		+/- .000025	+/- .000017.5	156
18x24x4	1405006		1405021		+/- .000037	+/- .000017.5	208
24x24x4	1405007		1405022		+/- .000037	+/- .000022.5	278
24x36x6	1405008		1405023		+/- .000050	+/- .000022.5	601
24x48x6	1405009		1405024		+/- .000075	+/- .000022.5	802
30x48x6	1405010		1405025		+/- .000087	+/- .000022.5	1,002
36x36x6	1405011		1405026		+/- .000075	+/- .000022.5	902
36x48x6	1405012		1405027		+/- .0001	+/- .000022.5	1,203
36x60x8	1405013		1405028		+/- .000125	+/- .000030	1,966
36x72x10	1405014		1405029		+/- .00015	+/- .000030	2,914
48x48x8	1405015		1405030		+/- .0001	+/- .000030	2,097
48x60x8	1405016		1405031		+/- .00015	+/- .000030	2,621
48x72x10	1405017		1405032		+/- .000175	+/- .000030	3,885
48x96x12	1405018		1405033		+/- .00025	+/- .000037.5	5,920

SURFACE PLATES A INSPECTION GRADE							
Size W x L x T	O - LEDGE		2 - LEDGE		Overall Accuracy	Repeat Reading	Shipping Weight lb
	Order No.	Price	Order No.	Price			
8x12x2	1405034		-		+/- .000050	+/- .000030	28
9x12x3	1405035		-		+/- .000050	+/- .000030	40
12x12x3	1405036		-		+/- .000050	+/- .000030	54
12x18x3	1405037		1405052		+/- .000050	+/- .000030	81
18x18x3	1405038		1405053		+/- .000050	+/- .000030	121
18x24x3	1405039		1405054		+/- .000075	+/- .000030	162
24x24x3	1405040		1405055		+/- .000075	+/- .000035	216
24x36x4	1405041		1405056		+/- .0001	+/- .000035	416
24x48x6	1405042		1405057		+/- .00015	+/- .000035	802
30x48x6	1405043		1405058		+/- .000175	+/- .000035	1,002
36x36x6	1405044		1405059		+/- .00015	+/- .000035	902
36x48x6	1405045		1405060		+/- .0002	+/- .000035	1,203
36x60x6	1405046		1405061		+/- .00025	+/- .000040	1,503
36x72x8	1405047		1405062		+/- .0003	+/- .000040	2,359
48x48x6	1405048		1405063		+/- .0002	+/- .000040	1,603
48x60x6	1405049		1405064		+/- .0003	+/- .000040	2,004
48x72x8	1405050		1405065		+/- .00035	+/- .000040	3,145
48x96x10	1405051		1405066		+/- .0005	+/- .000050	4,933

(Continued)



BLACK GRANITE SURFACE PLATES / STANDS / COVERS

SERIES 140:
(Continued)



All prices are FOB California.

SURFACE PLATES B TOOLROOM GRADE							
Size W x L x T	O - LEDGE		2 - LEDGE		Overall Accuracy	Repeat Reading	Shipping Weight lb
	Order No.	Price	Order No.	Price			
8x12x2	1405067		-		+/- .0001	+/- .000055	28
9x12x3	1405068		-		+/- .0001	+/- .000055	40
12x12x3	1405069		-		+/- .0001	+/- .000055	54
12x18x3	1405070		1405085		+/- .0001	+/- .000055	81
18x18x3	1405071		1405086		+/- .0001	+/- .000055	121
18x24x3	1405072		1405087		+/- .00015	+/- .000055	162
24x24x3	1405073		1405088		+/- .00015	+/- .000060	216
24x36x4	1405074		1405089		+/- .0002	+/- .000060	416
24x48x6	1405075		1405090		+/- .0003	+/- .000060	802
30x48x6	1405076		1405091		+/- .00035	+/- .000060	1,002
36x36x6	1405077		1405092		+/- .0003	+/- .000060	902
36x48x6	1405078		1405093		+/- .0004	+/- .000060	1,203
36x60x6	1405079		1405094		+/- .0005	+/- .000080	1,503
36x72x6	1405080		1405095		+/- .0006	+/- .000080	1,804
48x48x6	1405081		1405096		+/- .0004	+/- .000080	1,603
48x60x6	1405082		1405097		+/- .0006	+/- .000080	2,004
48x72x6	1405083		1405098		+/- .0007	+/- .000080	2,405
48x96x8	1405084		1405099		+/- .001	+/- .0001	3,947

O-Ledge Plate with Stationary Stand



Plate Cover



State thickness of plate when
ordering covers.

Standard working height of stand with plate is 36" measured from the top of the plate to the floor.

STEEL SUPPORT STANDS AND COVERS								
Size W x L	Plate Thickness	Stationary Stand		Castered Stand with Locks		Shipping Weight lb	Vinyl Surface Plate Cover	
		Order No.	Price	Order No.	Price		Order No.	Price
12x12	-	-		-		-	1405133	
12x18	up to 4"	1405101		1405117		95	1405134	
18x18	up to 4"	1405102		1405118		95	1405135	
18x24	up to 4"	1405103		1405119		95	1405136	
24x24	up to 4"	1405104		1405120		100	1405137	
24x36	up to 4"	1405105		1405121		120	1405138	
24x36	5" to 6"	1405106		1405122		170	1405139	
24x48	up to 6"	1405107		1405123		200	1405140	
30x48	up to 6"	1405108		1405124		220	1405141	
36x36	up to 6"	1405109		1405125		210	1405142	
36x48	up to 8"	1405110		1405126		225	1405143	
36x60	up to 8"	1405111		1405127		245	1405144	
36x72	up to 10"	1405112		1405128		260	1405145	
48x48	up to 8"	1405113		1405129		250	1405146	
48x60	up to 8"	1405114		1405130		275	1405147	
48x72	up to 10"	1405115		1405131		380	1405148	
48x96	up to 12"	1405116		1405132		530	1405149	

PREMIUM GRANITE CLEANER

Size	Order No.	Price
1 Pint	1405150	
1 Case of 12 Pints	1405151	



Penetrates the granite surface to loosen dirt, grime, and residue. It leaves the surface clean, which cuts down wear on precision surfaces.

Sold in pint size squeeze bottles.