

**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.

**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.



**Order No. 1705500**    **Price:**

Mitutoyo & Starrett Hardness Testers available;  
please inquire

**DIAMOND PENETRATOR - ROCKWELL SYSTEM**  
**SERIES 251:**



Fits all models.  
**Order No. 1705100**    **Price:**

**SURFACE PLATES - BLACK GRANITE**  
**SERIES 649:**



- 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	<b>6491011</b>	
12 x 18	3	.0001	75	<b>6491115</b>	
18 x 24	3	.00015	140	<b>6491152</b>	
24 x 36	4	.0002	430	<b>6491203</b>	
36 x 48	4	.0004	800	<b>6491304</b>	
<b>INSPECTION ("A") GRADE - 2 LEDGE</b>					
12 x 18"	3	.00005"	70	<b>6493115</b>	
18 x 24	3	.000075	135	<b>6493152</b>	
24 x 36	4	.0001	365	<b>6493203</b>	
36 x 48	6	.0002	1140	<b>6493304</b>	

**T - Thickness    ± A - Overall Lateral Accuracy**

**GRANITE SURFACE PLATE STANDS**  
**SERIES 649:**



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

Size	0-ledge	2-ledge	Price
18x24"	<b>6499000</b>	<b>6499100</b>	
24x36"	<b>6499001</b>	<b>6499101</b>	
36x48"	<b>6499002</b>	<b>6499102</b>	

# CRYSTAL PINK GRANITE SURFACE PLATES

SERIES 140:



**FOR ORDERING  
INFORMATION  
SEE NEXT PAGE.**

- Meets or exceeds Federal specifications for flatness - right to each edge.
- Great surface hardness and wear-resistance - highest percent of quartz crystals of any granite plate.
- Smooth, jewel-like quartz bearing points protect accuracy and finish of both surface and tools used on it.
- Quality and economy combined.
- Meets or exceeds 50 lb. per-square-foot-load-bearing specifications. Available in 100-lb. test series.

CRYSTAL PINK draws its name from the fact that it has the highest crystalline quartz content of any granite surface plate. In terms of overall quality and performance, it surpasses all other surface plates.

It competes directly with black granite plates while performance wise it outlasts them as much as 5 to 1. For surface plate users who prefer black, CRYSTAL PINK can be treated with a deep-penetrating black dye.

Surface Size		Flatness Unilateral Tol.		Thick.		Weight		EDP No.	Price
In.	mm	In.	mm	In.	mm	lb.	kg		
<b>GRADE AA - Laboratory - No Ledge</b>									
12x12	300x300	.000050	0.0012	4	100	55	25	<b>80601</b>	
12x18	300x450	.000050	0.0012	4	100	85	39	<b>80610</b>	
18x18	450x450	.000050	0.0012	4	100	125	57	<b>80619</b>	
18x24	450x600	.000065	0.0016	6	150	248	113	<b>80628</b>	
24x24	600x600	.000070	0.0017	6	150	330	150	<b>80646</b>	
24x36	600x900	.000085	0.0021	6	150	495	225	<b>80655</b>	
36x36	900x900	.0001	0.0025	6	150	745	338	<b>80701</b>	
36x48	900x1200	.00015	0.0038	8	200	1320	599	<b>80710</b>	
36x60	900x1500	.0002	0.0050	10	250	2065	937	<b>80719</b>	
36x72	900x1800	.00025	0.0063	12	300	2970	1347	<b>80728</b>	
48x72	1200x1800	.0003	0.0076	12	300	3960	1796	<b>80755</b>	
48x96	1200x2400	.0004	0.0101	16	400	7040	3193	<b>80773</b>	
<b>GRADE A - Inspection - No Ledge</b>									
12x12	300x300	.0001	0.0025	4	100	55	25	<b>80604</b>	
12x18	300x450	.0001	0.0025	4	100	85	39	<b>80613</b>	
18x18	450x450	.0001	0.0025	4	100	125	57	<b>80622</b>	
18x24	450x600	.00013	0.0033	6	150	248	113	<b>80631</b>	
24x24	600x600	.00014	0.0035	6	150	330	150	<b>80649</b>	
24x36	600x900	.00017	0.0043	6	150	495	225	<b>80658</b>	
36x36	900x900	.0002	0.0050	6	150	745	338	<b>80704</b>	
36x48	900x1200	.0003	0.0076	8	200	1320	599	<b>80713</b>	
36x60	900x1500	.0004	0.0101	10	250	2065	937	<b>80722</b>	
36x72	900x1800	.0005	0.0125	10	250	2475	1123	<b>80731</b>	
48x72	1200x1800	.0006	0.0152	10	250	3300	1497	<b>80758</b>	
48x96	1200x2400	.0008	0.0203	12	300	5280	2395	<b>80776</b>	
<b>GRADE B - Toolroom - No Ledge</b>									
12x12	300x300	.0002	0.0050	4	100	55	25	<b>80607</b>	
12x18	300x450	.0002	0.0050	4	100	85	39	<b>80616</b>	
18x18	450x450	.0002	0.0050	4	100	125	57	<b>80625</b>	
18x24	450x600	.00026	0.0066	4	100	165	75	<b>80634</b>	
24x24	600x600	.00028	0.0071	4	100	220	100	<b>80652</b>	
24x36	600x900	.00034	0.0086	6	150	495	225	<b>80661</b>	
36x36	900x900	.0004	0.0101	6	150	745	338	<b>80707</b>	
36x48	900x1200	.0005	0.0125	6	150	990	449	<b>80716</b>	
36x60	900x1500	.0007	0.0177	8	200	1650	749	<b>80725</b>	
36x72	900x1800	.001	0.0254	8	200	1980	898	<b>80734</b>	
48x72	1200x1800	.001	0.0254	8	200	2640	1198	<b>80761</b>	
48x96	1200x2400	.0015	0.0381	10	250	4400	1996	<b>80779</b>	

Surface Size		Flatness Unilateral Tol.		Thick.		Weight		EDP No.	Price
In.	mm	In.	mm	In.	mm	lb.	kg		
<b>GRADE AA - Laboratory - Two Ledge</b>									
12x12	300x300	.000050	0.0012	4	100	50	23	<b>80602</b>	
12x18	300x450	.000050	0.0012	4	100	78	35	<b>80611</b>	
18x18	450x450	.000050	0.0012	4	100	120	54	<b>80620</b>	
18x24	450x600	.000065	0.0016	6	150	224	102	<b>80629</b>	
24x24	600x600	.000070	0.0017	6	150	306	139	<b>80647</b>	
24x36	600x900	.000085	0.0021	6	150	460	209	<b>80656</b>	
36x36	900x900	.0001	0.0025	6	150	710	322	<b>80702</b>	
36x48	900x1200	.00015	0.0038	8	200	1250	567	<b>80711</b>	
36x60	900x1500	.0002	0.0050	10	250	1950	885	<b>80720</b>	
36x72	900x1800	.00025	0.0063	12	300	2810	1275	<b>80729</b>	
48x72	1200x1800	.0003	0.0076	12	300	3795	1721	<b>80756</b>	
48x96	1200x2400	.0004	0.0101	16	400	6750	3062	<b>80774</b>	
<b>GRADE A - Inspection - Two Ledge</b>									
12x12	300x300	.0001	0.0025	4	100	50	23	<b>80605</b>	
12x18	300x450	.0001	0.0025	4	100	78	35	<b>80614</b>	
18x18	450x450	.0001	0.0025	4	100	120	54	<b>80623</b>	
18x24	450x600	.00013	0.0033	6	150	224	102	<b>80632</b>	
24x24	600x600	.00014	0.0035	6	150	306	139	<b>80650</b>	
24x36	600x900	.00017	0.0043	6	150	460	209	<b>80659</b>	
36x36	900x900	.0002	0.0050	6	150	710	322	<b>80705</b>	
36x48	900x1200	.0003	0.0076	8	200	1250	567	<b>80714</b>	
36x60	900x1500	.0004	0.0101	10	250	1950	885	<b>80723</b>	
36x72	900x1800	.0005	0.0125	10	250	2340	1061	<b>80732</b>	
48x72	1200x1800	.0006	0.0152	10	250	3165	1436	<b>80759</b>	
48x96	1200x2400	.0008	0.0203	12	300	5060	2295	<b>80777</b>	
<b>GRADE B - Tool Room - Two Ledge</b>									
12x12	300x300	.0002	.0050	4	100	50	23	<b>80608</b>	
12x18	300x450	.0002	.0050	4	100	76	34	<b>80617</b>	
18x18	450x450	.0002	.0050	4	100	118	54	<b>80626</b>	
18x24	450x600	.00026	.0066	4	100	155	70	<b>80635</b>	
24x24	600x600	.00028	.0071	4	100	210	95	<b>80653</b>	
24x36	600x900	.00034	.0086	6	150	460	209	<b>80662</b>	
36x36	900x900	.0004	.0101	6	150	710	322	<b>80708</b>	
36x48	900x1200	.0005	.0125	6	150	955	433	<b>80717</b>	
36x60	900x1500	.0007	.0177	8	200	1560	708	<b>80726</b>	
36x72	900x1800	.001	.0254	8	200	1870	848	<b>80735</b>	
48x72	1200x1800	.001	.0254	8	200	2530	1148	<b>80762</b>	
48x96	1200x2400	.0015	.0381	10	250	4215	1912	<b>80780</b>	

(Continued)

## CRYSTAL PINK GRANITE SURFACE PLATES (Continued)

SERIES 140:



**ORDERS SHOULD SPECIFY** (1) surface size of plate, (2) grade AA, A or B tolerance and (3) number of ledges - two or none. Standard size plates are mounted on resilient support pads, providing isolation from normal vibration and a non-distorting 3-point suspension. Packed one in a crate with skids for forklift handling.

**Starrett builds specials, too.** With Starrett, there's no limit on granite surface plate configuration or engineering service. If you have an oversize workpiece to inspect, Starrett will design and build the oversize plate you need to stage it. It will be a single slab of granite from their own quarry in Salisbury, N.C., machined, finished and inspected to deliver the results you want. Starrett can also modify any size plate to accept threaded inserts, T-slots and other work-holding and locating features.

## GRANITE SURFACE PLATE ACCESSORIES

SERIES 140:



Shelf-type



These rugged, heavy-gauge steel stands provide reliable surface plate supports. They are structurally engineered to support twice the weight of the plate with an ample safety factor. Stands are constructed in heavy-duty bolt-type fashion. Two types of stands are available, depending on the size. Both types keep the surface plate at a comfortable 34" (864mm) working height.

They have a durable baked enamel finish and are provided with either leveling screws for stationary use or with locking casters for rolling.

Order by surface plate size and thickness. Sent with leveling screws unless otherwise specified. Larger size stands are available by request.

Surface Plate Size		Stationary Stand				Rolling Stand			
		Weight		EDP No.	Price	Weight		EDP No.	Price
Inch	mm	lb.	kg			lb.	kg		
<b>SHELF-TYPE STANDS FOR SMALLER PLATES</b>									
18"x24"	450x600	70	32	82000		75	34	82001	
24"x24"	600x600	80	36	82004		85	39	82005	
24"x36"	600x900	100	45	82006		110	50	82007	
<b>STANDS FOR LARGER PLATES</b>									
30"x48"	750x1200	110	46	82012		119	54	82013	
36"x36"	900x900	130	59	82016		135	61	82017	
36"x48"	900x1200	116	53	82018		127	58	82019	
36"x60"	900x1500	124	56	82020		153	69	82021	
36"x72"	900x1800	175	79	82022		200	91	82023	
48"x72"	1200x1800	200	91	82028		310	141	82029	
48"x96"	1200x2400	220	100	82032		400	181	*	*

\* Rolling stands not recommended for surface plates of this size. Cabinet Type surface plate stands available; please inquire.

## SURFACE PLATE CLEANER

SERIES 140:



To keep surface plates and other precision granite products in top condition, they should be wiped off frequently with Starrett Cleaner. This helps prevent abrasion of tools by dirt and other foreign particles. The cleaner, which also acts as a degreaser and rust inhibitor, should be used without water to minimize the risk of rusting tools. Supplied in a variety of containers as listed.

Description	EDP No.	Price
55 gallon (250liter) Drum	981820	
5 gallon (23 liter) Container	81821	
1 gallon (4.5 liter)	81823	
16 oz. (0.5 liter)	81825	

## SURFACE PLATE COVERS

SERIES 140:



Vinyl Cover

These covers fit snugly over the top of standard size Starrett Surface Plates, protecting their precise flatness and microfinish from abrasive dust. Dust can accelerate wear on a surface plate and the base of gages used on it. Made of a strong vinyl material the covers are recommended whenever surface plates are not in use.

FOR SURFACE SIZE			
Inch	mm	EDP No.	Price
<b>Vinyl Covers</b>			
12x18"	300x450	83002	
18x18"	450x450	83003	
18x24"	450x600	83004	
24x24"	600x600	83005	
24x36"	600x900	83006	
30x48"	750x1200	83007	
36x36"	900x900	83009	
36x48"	900x1200	83008	
36x60"	900x1500	83012	
36x72"	900x1800	83013	
48x72"	1200x1800	83010	
48x96"	1200x2400	83011	