For more information on Precision Measuring Instruments, see page 2210

Horizontal 1ARJ9

Single-Function Digital Scale Units

Linear scales with SPC output move along a beam and display the distance

traveled on a digital display. They are available in horizontal or vertical

designs to measure distances. They measure absolute positioning, zero-

setting for relative positioning, and have built-in low battery alarms. The

also have direction changeover to reverse the direction of measurement,

programmable presets to display a specific value, and data hold. They are

commonly used for table positioning, guill positioning, and tool presetting.

Brand

nsize

nsize

nsize nsize

Accuracy



Precision Steel Parallels & Sets

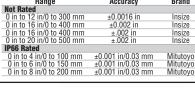
These precision steel parallel sets are comprised of rectangular blocks with highly parallel, square dimensions within tight tolerances. When a vise is too deep to hold a workpiece, parallels are commonly used to position the workpiece for accurate cutting by creating a parallel and flat base. These parallels offer certainty about the alignment of the workpiece rather than requiring guesswork and constant adjustments with a level, protractor, or indicator.

No. of Pairs	Included Sizes	L	Thickness	Parallelism	Brand	ltem No.
1	1/2 in x 1 in	6 in	1⁄2 in	100 µin	Starrett	30A621
9	1 ½ in, 1 ¼ in, 1 ¼ in, 1 3/4in, 1 ¾ in, 1 % in, 1 in, ¾ in, 7% in	6 in	1⁄4 in	300 µin	Insize	463T39
10	1 ½ in, 1 ¼ in, 1 ½ in, 1 ¾ in, 1 ¾ in, 1 % in, 1 in, ½ in, ¾ in, % in, % in	6 in	1⁄8 in	300 µin	Insize	463T38
10	¹ ½ in, 1 ¼ in, 1 ½ in, 1 ¾ in, 1 % in, 1 in, ½ in, ¾ in, % in, % in	6 in	1⁄8 in	_	Tesa Brown & Sharpe	¹ 5TZU3

+INSIZE Starrett Inspection Surface Plates

Grade B Toolroom Grade surface plates are made to a precise tolerance of flatness and repeatability suitable for smaller QA and inspection jobs on the shop floor where metrology lab-level sensitivity is not a factor. Grade A Inspection Grade surface plates are built to a medium tolerance of flatness and repeatability. They have either four flat edges or ledges on two sides that create an overhang for clamping, supporting, and securing objects. Grade AA Laboratory Grade surface plates are made to the best tolerance of flatness and repeatability. These plates are thicker than lesser-grade plates, so they have less deflection and are intended for permanent installation.

Surface Size	Color	Flatness	Weight (lb.)	Brand	ltem No.
Grade B			()		
Flat Edge Style					
18 in x 24 in; 450 mm x 600 mm	Pink	0.0003 in	165	Starrett	6PCU8
24 in x 24 in; 600 mm x 600 mm	Pink	0.0003 in	220	Starrett	6PCU9
24 in x 36 in; 600 mm x 900 mm	Pink	0.0004 in	495	Starrett	6PCV0
36 in x 48 in; 900 mm x 1200 mm	Pink	0.0008 in	990	Starrett	6PCV3
36 in x 60 in; 900 mm x 1800 mm	Pink	0.001 in	1,650	Starrett	6PCV4
48 in x 96 in; 1200 mm x 2400 mm	Pink	0.0020 in	4,400	Starrett	6PCV8
Two Ledges Edge Style					
24 in x 36 in; 750 mm x 1200 mm	Pink	0.0004 in	460	Starrett	6PCZ2
48 in x 96 in; 1200 mm x 2400 mm	Pink	0.002 in	4,215	Starrett	6PDA0
Grade A					
Flat Edge Style					
12 in x 18 in; 300 mm x 450 mm	Gray	0.00012 in/0.0030 mm	93	Insize	463K63
18 in x 24 in; 450 mm x 600 mm	Gray	0.00012 in/0.0030 mm	181	Insize	463K64
18 in x 24 in; 450 mm x 600 mm	Pink	0.000150 in/0.0038 mm	248	Starrett	6PCT4
24 in x 24 in; 600 mm x 600 mm	Pink	0.000150 in/0.0038 mm	330	Starrett	6PCT5
24 in x 36 in; 600 mm x 900 mm	Gray	0.00012 in/0.0030 mm	441	Insize	463K65



HINSIZE

Grade A

463K66

</NSIZE+

Mitutoyo

with SPC Output

Range

Starrett Grade AA 6PCX2

Horizontal

Digital Scale Unit

Item

Nn

463H2

463H28

463H29

1ARJ9 1ARR4 4CGX1 Vertical

463H36

Vertical Digital

Scale Unit

Item

Nn

463H36

463H37 463H38

33RJ82 4CGX2

4CGX3

Grade B Toolroom 6PCU8

Surface Size	Color	Flatness	Weight (lb.)	Brand	ltem No.		
36 in x 48 in: 900 mm x 1200 mm	Grav	0.00012 in/0.0030 mm	1.268	Insize	463K66		
48 in x 72 in: 1200 mm x 1800 mm	Pink	0.000700 in/0.0177 mm	3.300	Starrett	6PCU3		
48 in x 96 in; 1200 mm x 2400 mm	Pink	0.001000 in/0.0254 mm	5,280	Starrett	6PCU4		
Flat Edge Style							
12 in x 12 in; 300 mm x 300 mm	Pink	0.000100 in/0.0025 mm	55	Starrett	6PCT1		
12 in x 18 in; 300 mm x 450 mm	Pink	0.000100 in/0.0025 mm	85	Starrett	6PCT2		
24 in x 36 in; 600 mm x 900 mm	Pink	0.000200 in/0.0050 mm	495	Starrett	6PCT6		
Two Ledges Edge Style							
24 in x 36 in; 600 mm x 900 mm	Pink	0.000200 in/0.0050 mm	460	Starrett	6PCX8		
Grade AA							
Flat Edge Style							
12 in x 12 in; 300 mm x 300 mm	Pink	0.000050 in/0.0012 mm	55	Starrett	6PCN7		
12 in x 18 in; 300 mm x 450 mm	Pink	0.000050 in/0.0012 mm	85	Starrett	6PCN8		
18 in x 24 in; 450 mm x 600 mm	Pink	0.000075 in/0.0019 mm	248	Starrett	6PCR0		
24 in x 24 in; 600 mm x 600 mm	Pink	0.000075 in/0.0019 mm	330	Starrett	6PCR1		
24 in x 36 in; 600 mm x 900 mm	Pink	0.000100 in/0.0025 mm	495	Starrett	6PCR2		
36 in x 48 in; 900 mm x 1200 mm	Pink	0.000200 in/0.0050 mm	1,320	Starrett	6PCR5		
48 in x 72 in; 1200 mm x 1800 mm	Pink	0.000350 in/0.0088 mm	3,960	Starrett	6PCR9		
Two Ledges Edge Style							
48 in x 96 in;	Pink	0.000500 in/0.0127 mm	6,750	Starrett	6PCX2		

Mitutoyo +///S/ZE+

Optical Comparators

IOX Magnification lens included

Horizontal optical comparator are suitable for shaft parts or heavy workpieces with large volume. The main axis of the comparator is perpendicular to the plane of the projection screen. Vertical optical comparators are suitable for flat parts or smaller workpieces. The main axis is parallel to the plane of the screen.

Projector Series	Screen Size	Table Size	Effective Table Working Area	Y-Axis Vertical Focus Travel	X-Axis Table Travel	Image Type	Res.	Brand	ltem No.
Horizontal									
Mitutovo DLL 25155	 14 in 	17 11/16 in x 5 11/16 in	17 11/16 in x 5 11/16 in	6 in	10 in	Erect Image	0.0001mm	Mitutoyo	54GF40
Mitutoyo PH-3515F	14 in	17 45/64 in x 5 45/64 in	17 45/64 in x 5 45/64 in	6 in	10 in	Erect Image	0.0001 in/0.001mm	Mitutoyo	54GF82
Mitutoyo PH-3515F with QM Data	: 14 in	17 ¹¹ / ₁₆ in x 5 ¹¹ / ₁₆ in	17 ¹¹ / ₁₆ in x 5 ¹¹ / ₁₆ in	6 in	10 in	Erect Image	0.0001mm	Mitutoyo	54GF39
Vertical									
	12 in	13 ¾ in x 6 in	13 ¾ in x 6 in	3.54 in	6 in	Erect Image	0.00002 in	Insize	463D22
INSIZE ISP-A	12 in	15 ¹⁵ / ₁₆ in x 9 in	15 15/16 in x 9 in	3.94 in	8 in	Erect Image	0.00002 in	Insize	463D26
	12 in	15 15/16 in x 9 in	15 15/16 in x 9 in	3.93 in	8 in	Erect Image	0.00002 in	Insize	463D28
INSIZE ISP-Z	12 in	13 ¾ in x 6 in	13 ¾ in x 6 in	3.54 in	6 in	Erect Image	0.00002 in	Insize	463D31
Mitutovo PJ-A3000	12.4 in	9 ¹⁵ /16 in x 9 ¹⁵ /16 in	7 ¼ in x 3 ¼ in	3.58 in	4 in	Inverted Image	0.0001 in/0.001mm	Mitutovo	54GF43

Horizontal 54GF40 Vertical 463D22

Sign in to Grainger.com[®] to see YOUR Pricing and MORE