



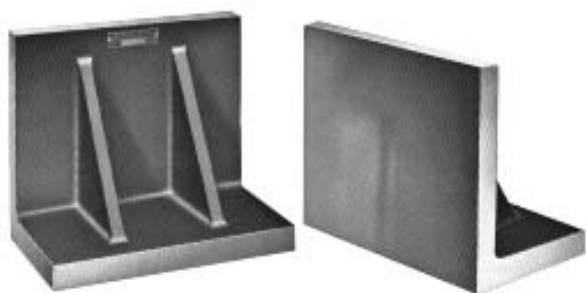
Challenge Plates and Parallels

Angle Plates

Hold Work in Vertical Position

Challenge Angle Plates provide a practical and versatile means of clamping and holding work in a vertical position for layout, machining, and inspection operations. They are also used as time-saving, reusable fixture components.

Angle Plates are made of Meehanite or the equivalent with the two outside working surfaces precision ground flat and square to within .0005" up to 6" and graduated to .0001" in 1" to a maximum .001" T.I.R. overall.



To order please specify catalog number and quantity desired.

Standard Angle Plates

Size A x B x C (Inches)	Catalog Number	Shipping Weight (Pounds)
2-3/4 x 4-3/4 x 4-3/4	832-CAP01	7
3-1/2 x 4 x 4	832-CAP02	7
4 x 4 x 4	832-CAP03	7
4 x 5 x 6	832-CAP04	12
4 x 6 x 12	832-CAP05	26
6 x 6 x 6	832-CAP06	20
6 x 6 x 8	832-CAP07	26
6 x 7 x 8	832-CAP08	31
6 x 8 x 6	832-CAP09	28
6 x 8 x 10	832-CAP10	48
8 x 10 x 6	832-CAP11	45
8 x 10 x 12	832-CAP12	85
9 x 9 x 9	832-CAP13	66
12 x 12 x 12	832-CAP14	130
12 x 12 x 15	832-CAP15	185
12 x 16 x 16	832-CAP16	265
12 x 24 x 24	832-CAP17	410
18 x 18 x 18	832-CAP18	345
24 x 24 x 24	832-CAP19	870

Box Parallels

Precision Ground Within .00025"



Style 1

Style 2

Style 3

Challenge Box Parallels are used for making fixtures, for mounting work to be laid out or inspected, or in sets for raising work parallel to the working surface.

Box Parallels are made of Meehanite or the equivalent. All sides are precision ground within .00025" in 6" to a maximum of .0005" overall, flat and square within .0005" up to 6", and graduated to .0001" per inch to a maximum of .001"

To order specify catalog number and quantity desired.

Size A x B x C (Inches)	Style	Catalog Number	Shipping Weight (Pounds)
1-1/2 x 2 x 4	1	832-CBP01	3
2 x 2-1/2 x 5	1	832-CBP02	5
3 x 4 x 6	1	832-CBP03	12
4 x 4 x 4	1	832-CBP04	11
4 x 4 x 6	1	832-CBP05	16
4 x 6 x 6	1	832-CBP06	20
5 x 8 x 12	2	832-CBP07	68
5 x 10 x 10	2	832-CBP08	70
6 x 6 x 6	1	832-CBP09	27
6 x 12 x 12	2	832-CBP10	100
6 x 14 x 16	2	832-CBP11	145
8 x 8 x 8	3	832-CBP12	60
10 x 10 x 10	3	832-CBP13	125
12 x 12 x 12	3	832-CBP14	220



Challenge V-Blocks and Plates

Standard V-Blocks

Challenge Standard V-Blocks provide a means of supporting and holding cylindrical work for layout, machining, inspections, or as fixture components.



V-Blocks are made of Meehanite or the equivalent. The base, side and "V" are precisionground. The "V" is centered, square with the sides, and parallel with the base within .0005".

Holds and Supports Cylindrical Work

Size (Inches) A x B x C	Maximum Diameter Capacity (Inches)	Catalog Number	Shipping Weight Per Pair (Pounds)
2 x 2-1/2 x 5	3-1/2	832-CVB01	12
2 x 3-1/2 x 6	4-3/4	832-CVB02	26
6 x 6 x 7	5-1/2	832-CVB03	84
6 x 8 x 8	7	832-CVB04	130
12 x 12 x 12	11-3/4	832-CVB05	420

6" Clamp-Edge Layout Plates

For Securely Locking Work to Plate



These 6" cored Challenge Clamp-Edge Layout Plates have solid two inch thick edges which overhang the plate itself by two inches. The edge is convenient for clamping work during layout and assembly operations. Overall height with optional stand is 36 inches. The working surface is normally machine finished flat within .002" overall.

These plates are made of Meehanite (or equal) and stress relieved. The high quality materials and workmanship results in dependably meeting the requirements of many types of precision work.

Challenge 6" Clamp-Edge Layout Plates

Size (Inches)	Catalog Number	Shipping Weight (Pounds)
36 x 72	832-CLP01	2205
40 x 96	832-CLP02	2430
48 x 96	832-CLP03	3115
48 x 120	832-CLP04	3960
54 x 144	832-CLP05	5390

Stands for Challenge 6" Clamp-Edge Layout Plates

Plate Size (Inches)	Catalog Number	Shipping Weight (Pounds)
36 x 72	832-CLPS01	205
40 x 96	832-CLPS02	240
48 x 96	832-CLPS03	290
48 x 120	832-CLPS04	360
54 x 144	832-CLPS05	425

Granite Surface Plates

Accurate, Precision, Stable Working Surface



Challenge Granite Surface Plates offer very accurate, stable, precision surfaces that can be used for layout, gaging, and inspection or as bases for fixtures, coordinate measuring machines, or other machines. They are self supporting, have a low coefficient of expansion, and a low degree of surface deflection under normal loads.

They are made from a special close-grained granite that is excellent for gaging applications. They are precision tapped to a velvet smooth, frosted finish that prevents instruments from wringing to their surfaces.

Challenge Granite Surface Plates are available in three grades – AA (Laboratory Grade), A (Inspection Grade), and B (Shop Grade) with no ledges, two ledges, or four ledges. They can be used alone or on supporting stands. No ledge plates are recommended for most applications.

Please call or write for information or descriptive literature.

To order specify catalog number and quantity required.
Call toll free 1-800-321-3170
for information on surface plates.