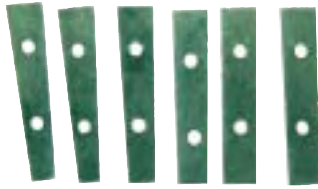


Thin Angle Block Sets

A economical and direct method for angle set-ups. Hardened and precision ground on working surfaces. Two 1/4 holes for mounting. 3-1/2" long, 5/32" thick.



Piece	Specification	Order No.
6Pcs/set	1/2°, 1- 5° by 1°	630-4258
5Pcs/set	6 -10° by 1°	630-4259
11Pcs/set	1/2 -10° by 1°	630-4251

Solid Angle Plates

- Hardened Steel
- Precision Ground Angles
- Each Block is 1/4" Thick



Specification	Angle	Order No.
3 x 3x 5/16"	45°/45°v/90°	418-4800
2 x 3-3/8 x 5/16"	30°v/60°/90°	418-4810
2Pcs/set,each one of above size		418-4820

Precision 0-60° Angle Blocks

- 0-60° adjustable angle by locking the hex screw on the bottom.
- Squareness: 0.0004"/0.01mm.
- Angle of Vee 90°.



Dimension	Order No.
1-3/16 x 1-7/8 x 4"(30 x 48 x 102mm)	418-4940
1-13/16 x 1-7/8 x 4"(46 x 48 x 102mm)	418-4950
7/8 x 1-1/4 x 3"(25 x 32 x 75mm)	418-4960

Precision Sine Angle Blocks

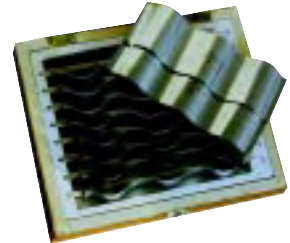
- 0-60° adjustable.
- 90°V Angle.
- Block Size: 4"x1-3/16"Wx2-1/4"H.
- Diameter of Roll: 5/8"
- Total Height of block (including rolls): 2-1/4"



Order No. 418-4941

9 Pair Wavy Parallel Sets

- Economical, simple and easy to use in precision clamping of parts in drilling, boring, milling, grinding, assembly work, etc.
- Ideal for clamping a group of flat work pieces.
- Guaranteed to size in height and parallelism ± 0.0002 in.
- Made of high-quality spring steel, hardened, stress-relieved and precision-ground.
- Thin and fragile work pieces can be secured without damage .



Individual Pairs

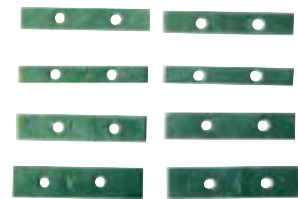
Size	Order No.	Size	Order No.
1/2"	637-7401	1-1/8"	637-7406
5/8"	637-7402	1-1/4"	637-7407
3/4"	637-7403	1-3/8"	637-7408
7/8"	637-7404	1-1/2"	637-7409
1"	637-7405		

Sets

Range	Description	Wooden Case Order No.
1/2"-1-1/2"	Set of 9 Pairs	637-7400
9-23mm	Set of 8 by 2mm	637-7451
25-39mm	Set of 8 by 2mm	637-7461

Economy Thin Parallel Sets

Useful for fast setting of work pieces to needed height in vise jaws. Made of hardened and precision ground steel.



Pairs	Specification	Length	Hole	Order No.
4Pairs/set	1/2", 5/8", 3/4", 7/8"	3-1/2"	1/4"	630-4257
5Pairs/set	1/2", 5/8", 3/4", 7/8", 1"	3-1/2"	1/4"	630-4255

6 Pc. Adjustable Parallel Sets

- Length range: 3/8" to 2-1/4" closed. Quickly adjustable, and locked with set screws for micrometer measurement.
- For layout inspection, stop work, set-up etc.

Individuals

Size	Order No.
3/8" to 1/2"	637-7561
1/2" to 11/16"	637-7562
11/16" to 15/16"	637-7563
15/16" to 1-5/16"	637-7564
1-5/16" to 1-3/4"	637-7565
1-3/4" to 2-1/4"	637-7566



Set

Order No. 637-7508

Metric Precision Parallel Sets

7 Pair/ Set

- Parallel: $\pm 0.005\text{mm}$
 - Hardened and ground HRC 40-45
 - Set includes one each of (Thickness x Height):
8.5 x (10,15,20, 24, 30)mm
12.6 x (38, 44)mm
- Length: 150mm, **Order No. 637-7777**

8 Pair/ Sets

- Parallel: $\pm 0.005\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
8x(12, 17, 22, 25, 28, 32, 36, 38)mm
- Length: 120mm, **Order No. 637-7972**
Length: 160mm, **Order No. 637-7974**

8 Pair/ Set

- Parallel: $\pm 0.005\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
8x(17, 22, 25, 28, 32, 36, 38, 43mm)
- Length: 200mm, **Order No. 637-7976**

9 Pair/ Sets

- Parallel: $\pm 0.005\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
4x(10, 14, 18, 22, 26, 30, 34, 38, 42)mm
- Length: 100mm, **Order No. 637-7968**
Length: 160mm, **Order No. 637-7970**

10 Pair/ Set

- Parallel: $\pm 0.005\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
10x(14, 16, 18, 20, 22, 24, 26, 28, 30, 32)mm
- Length: 150mm, **Order No. 637-7959**

12 Pair/ Set

- Parallel: $\pm 0.005\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
10x(14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40)mm
- Length: 120mm, **Order No. 637-7962**

14 Pair/ Set

- Parallel: $\pm 0.005\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
10x(14, 16, 18, 20, 22, 24, 26, 28, 30, 32)mm
10x(35, 40, 45, 50)mm
- Length: 150mm, **Order No. 637-7960**

20 Pair/ Set

- Accuracy: $\pm 0.01\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
2x(5, 15, 20)mm
3x(6,11, 16, 21)mm
4x(7, 12, 17, 22)mm
5x(8, 13, 18, 23)mm
6x(9, 14, 19, 24)mm
- Length: 100mm, **Order No. 637-7964**

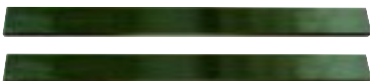
24 Pair/ Set

- Accuracy: $\pm 0.01\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
8x(11,16,21,26,31,36)mm step by 5mm
10x(13, 18, 23, 28, 33, 38)mm step by 5mm
12x(15, 20, 25, 30, 35, 40)mm step by 5mm
14x(17, 22, 27, 32, 37, 42)mm step by 5mm
- Length: 150mm, **Order No. 637-7966**



Inspection Parallels

- Made of high grade tool steel, stabilized and thoroughly hardened to HRC 58.
- Surface finish to 16 microinches.
- Parallels finished and sold in pairs.



Dimensions	Order No.	Dimensions	Order No.	Dimensions	Order No.
1/4 x 1/2 x 6"	637-7590	3/4 x 1-1/2 x 9"	637-7624	5/8 x 7/8 x 6"	637-7612
1/4 x 5/8 x 6"	637-7595	3/4 x 1 x 12"	637-7625	1/2 x 3/4 x 9"	637-7615
1/4 x 3/4 x 6"	637-7600	3/4 x 1-1/4 x 12"	637-7630	1/2 x 1 x 9"	637-7620
3/8 x 1/2 x 6"	637-7602	1 x 1-1/4 x 12"	637-7631	1 x 2 x 12"	637-7633
3/8 x 3/4 x 6"	637-7605	1 x 1-1/2 x 12"	637-7632	1-1/4 x 1-1/2 x 12"	637-7634
1/2 x 5/8 x 6"	637-7607	1/2 x 3/4 x 6"	637-7609	1-1/4 x 2 x 12"	637-7635
3/4 x 1 x 9"	637-7622	1/2 x 1 x 6"	637-7610	1-1/2 x 2 x 12"	637-7636

1/32" Ultra Thin Parallel Sets

- Hardened to HRC50.
- Parallelism: $\pm 0.0001"$.
- Pair Height accuracy: $\pm 0.0001"$.



10 Pairs, 1/2" through 1-5/8" by 8ths

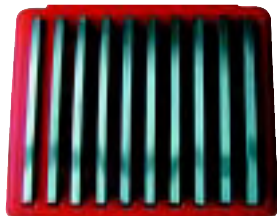
	Wooden case	Plastic case
Description	Order No.	Order No.
Blue Finished	637-9036	637-9038
Black Finished	637-9037	637-9039

20 Pairs, 1/2" through 1-11/16" by 16ths

	Wooden case	Plastic case
Description	Order No.	Order No.
Blue Finished	637-9032	637-9034
Black Finished	637-9033	637-9035

Precision Thin Parallels & Sets

- Thin style, .125 Thick, Matched pairs, Made of high grade alloy steel, hardened and ground.
- 2 hole in each parallel.
- Parallelism: $\pm 0.0002"$, $\pm 0.001"$ to size in height.



1/8" 10 Pairs Sets

Descriptions	Order No.
Plastic case	637-7030
Wooden case	637-7530

1/8" Individual Pairs

Dimensions	Hole Size	Order No.
1/8 x 1/2 x 6"	13/64"	637-7510
1/8 x 5/8 x 6"	1/4"	637-7511
1/8 x 3/4 x 6"	5/16"	637-7512
1/8 x 7/8 x 6"	5/16"	637-7513
1/8 x 1 x 6"	5/16"	637-7514
1/8 x 1-1/8 x 6"	3/8"	637-7515
1/8 x 1-1/4 x 6"	3/8"	637-7516
1/8 x 1-3/8 x 6"	7/16"	637-7517
1/8 x 1-1/2 x 6"	1/2"	637-7518
1/8 x 1-5/8 x 6"	1/2"	637-7519

Precision Parallel Sets

- Tolerance: Parallel $\pm 0.0003"$ on 2 sides, top and bottom.
- Dimensions: Within $\pm 0.001"$ allowance.
- Hardness: Hardened to HRC 55 TO 62 on 2 sides top and bottom only
- The holes are designed for easier handling and set-ups.
- Made from fine quality tool steel stress relieved against distortion, precision, ground and hardened. These precision parallels are recommended for layout work, standards and set-ups.

3/16" 4 Pairs Sets

Descriptions	Order No.
Wooden case	637-7532
Plastic case	637-7032

3/16" Individual Pairs

Dimension	Order No.
3/16 x 1 x 6"	637-7504
3/16 x 1-1/4 x 6"	637-7505
3/16 x 1-1/2 x 6"	637-7506
3/16 x 1-3/4 x 6"	637-7507

3/16" & 1/2" 4 Pairs Sets

Descriptions	Order No.
Wooden case	637-7538
Plastic case	637-7038

3/16" & 1/2" Individual Pairs

Dimension	Order No.
1/2 x 1-1/2 x 6"	637-7502
1/2 x 1-3/4 x 6"	637-7503
3/16 x 1 x 6"	637-7504
3/16 x 1-1/4 x 6"	637-7505

1/2" 4 Pairs Sets

Descriptions	Order No.
Wooden case	637-7536
Plastic case	637-7036

1/2" Individual Pairs

Dimension	Order No.
1/2 x 1 x 6"	637-7500
1/2 x 1-1/4 x 6"	637-7501
1/2 x 1-1/2 x 6"	637-7502
1/2 x 1-3/4 x 6"	637-7503

6" 4 Pairs Sets

Dimension	Order No.
1/2"x3/8"	637-7000
3/4"x1/4"	
7/8"x3/16"	
1x1/8"	

6" 4 Pairs Sets

Dimension	Order No.
3/4"x3/8"	637-7001
1"x1/4"	
1-1/8"x3/16"	
1-3/16"x1/8"	

1/2" 8 Pairs Sets

Description	Order No.
Plastic Case	637-7034
Wooden Case	637-7534

1/2" Individual Pairs

Dimensions	Hole Size	Order No.
1/2 x 7/8 x 6"	5/16"	637-7800
1/2 x 1 x 6"	5/16"	637-7801
1/2 x 1-1/8 x 6"	3/8"	637-7802
1/2 x 1-1/4 x 6"	3/8"	637-7803
1/2 x 1-3/8 x 6"	7/16"	637-7804
1/2 x 1-1/2 x 6"	7/16"	637-7805
1/2 x 1-5/8 x 6"	1/2"	637-7806
1/2 x 1-3/4 x 6"	1/2"	637-7807

1/4" 9 Pairs Sets

Descriptions	Order No.
Plastic Case	637-7035
Wooden Case	637-7535

1/4" Individual Pairs

Dimensions	Hole Size	Order No.
1/4 x 3/4 x 6"	5/16"	637-7900
1/4 x 7/8 x 6"	5/16"	637-7901
1/4 x 1 x 6"	5/16"	637-7902
1/4 x 1-1/8 x 6"	3/8"	637-7903
1/4 x 1-1/4 x 6"	3/8"	637-7904
1/4 x 1-3/8 x 6"	7/16"	637-7905
1/4 x 1-1/2 x 6"	7/16"	637-7906
1/4 x 1-5/8 x 6"	1/2"	637-7907
1/4 x 1-3/4 x 6"	1/2"	637-7908