

Quality Hardened Steel Squares

Blades with Straight Edges, Accuracy Class 2

- Accuracy: .0008" + L/10,000
- Beam is grooved at inner corner.
- Beams and blades are accurately ground and lapped.
- Hardness: HRC55.



Blade	Beam	Order No.
1-3/8"	1"	650-7505
2-3/8"	1-3/8"	650-7510
3-1/8"	2"	650-7537
5"	3"	650-7552
6-3/4"	4"	650-7560
8-1/2"	5-1/8"	650-7586
10-1/2"	6-3/8"	650-7602
14"	6"	650-7610
18"	8"	650-7615

Blades with Two Straight Bevelled Edges, Accuracy Class N

- Accuracy: .0002" + L/50,000
- Class N Squares have accurate right angles both inside and outside.
- Beam is grooved at inner corner for clearance of burr and dirt.
- Beams and blades are accurately ground and lapped for straightness and parallelism.
- All squares are fully hardened (HRC55).



Blade	Beam	Order No.
1-3/8"	1"	650-6205
2-3/8"	1-3/8"	650-6210
2-1/2"	1-1/2"	650-6224
3-1/8"	2"	650-6232
5"	3"	650-6257
6-1/4"	4"	650-6265
6-3/4"	4"	650-6270
7-7/8"	5"	650-6281
8-1/2"	5-1/8"	650-6285
10-1/2"	6-3/8"	650-6290

Blades with Two Straight Bevelled Edges, Accuracy Class H

- Accuracy: .0008" + L/10,000
- Squares have accurate right angles both inside and outside.
- Made from a single piece of fully seasoned tool steel.
- Class H Blades are beveled on both edges of each side.
- Beam is grooved at inner corner for clearance of burr and dirt.
- Beams and blades are ground and accurately lapped for straightness and parallelism.
- All squares are fully hardened (HRC55).



Blade	Beam	Order No.
1-3/8"	1"	650-7205
2-3/8"	1"	650-7210
2-3/8"	1-3/8"	650-7211
2-1/2"	1-1/2"	650-7222
3-1/8"	2"	650-7230
5"	3"	650-7255
6-1/4"	4"	650-7263
7-7/8"	5"	650-7289
8-1/2"	5-1/8"	650-7293
10-1/2"	6-3/8"	650-7296

Machinist's Steel Squares & Sets

Plain Type

- Accuracy: Workshop Grade/Plain Type
- Made from the finest steel.
- Beams and blades are ground and accurately lapped for straightness and parallelism.
- Hardened blade only.



Individuals

Blade	Beam	Order No.
2"	1-1/2"	650-8022
3"	2-1/2"	650-8030
4"	3"	650-8048
6"	4"	650-8063
9"	5-1/2"	650-8097
12"	7"	650-8121
18"	10"	650-8147
24"	12"	650-8162

Sets

Blade	Beam	Order No.
4Pcs/set	2-6"	650-8014
4Pcs/set	4-12"	650-8006

Die Maker's Square Sets

"Die Maker's Square set" is ideal for the toolmaker working on precise miniature layouts. Sets consist of 3 hardened beveled edge squares 3/4", 1-1/4" and 2-3/8" plus a 1-1/2" triangular straight edge with handle. Sides of triangular straight edge are grooved in middle for clearance of burr and dirt.

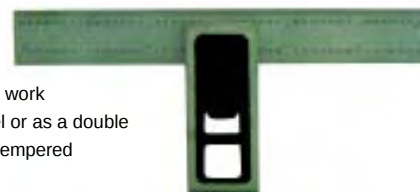
- All tools are hardened and ground, very finely finished and extremely accurate.
- 1-1/2" triangular straight edge with a removable handle (length 2-1/2").
- Beam is grooved at inner corner for clearance of burr and dirt.



Description	Order No.
Beveled Edge Squares : 3/4", 1-1/4", 2-3/8" Triangular straight edge: 1-1/2" OAL:4"	650-7200
Beveled Edge Squares : 3/4", 1-1/8", 1-15/16" Triangular straight edge: 1-1/2" OAL:4"	650-7202

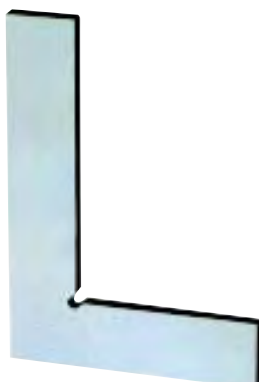
DIN Adjustable Precision Squares

- Ideal for precision layout work
- Can be used as a parallel or as a double
- Blade are hardened and tempered



Blade Size	Grade 1 Order No.	Grade 2 Order No.
100x70mm	639-7901	639-7911
150x100mm	639-7902	639-7912
200x150mm	639-7903	639-7913

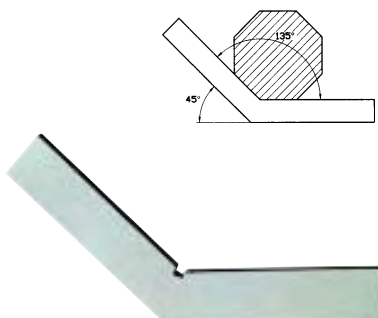
DIN875 Squares



90° Flat Squares

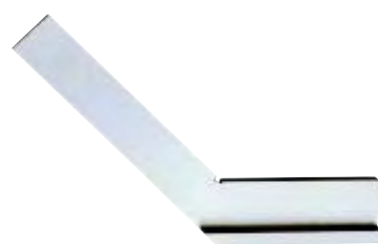
Blade (mm)	Beam (mm)	Carbon Steel			Stainless Steel		
		Grade 0	Grade 1	Grade 2	Grade 0	Grade 1	Grade 2
		Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
50	40	639-4105	639-4205	639-4305	638-4105	638-4205	638-4305
75	50	639-4110	639-4210	639-4310	638-4110	638-4210	638-4310
100	70	639-4115	639-4215	639-4315	638-4115	638-4215	638-4315
150	100	639-4120	639-4220	639-4320	638-4120	638-4220	638-4320
200	130	639-4130	639-4230	639-4330	638-4130	638-4230	638-4330
250	160	639-4132	639-4232	639-4332	638-4132	638-4232	638-4332
300	175	639-4136	639-4236	639-4336	638-4136	638-4236	638-4336
300	200	639-4135	639-4235	639-4335	638-4135	638-4235	638-4335

135° & 120° Flat Squares



Blade (mm)	Beam (mm)	135°				120°			
		Carbon Steel		Stainless Steel		Carbon Steel		Stainless Steel	
		Grade 1 Order No.	Grade 2 Order No.	Grade 1 Order No.	Grade 2 Order No.	Grade 1 Order No.	Grade 2 Order No.	Grade 1 Order No.	Grade 2 Order No.
100	70	639-5005	639-5105	638-5005	638-5105	639-5055	639-5155	638-5055	638-5155
120	80	639-5010	639-5110	638-5010	638-5110	639-5060	639-5160	638-5060	638-5160
150	100	639-5015	639-5115	638-5015	638-5115	639-5065	639-5165	638-5065	638-5165
200	130	639-5020	639-5120	638-5020	638-5120	639-5070	639-5170	638-5070	638-5170
50	50	639-3005	639-3105	638-3005	638-3105	639-3205	639-3305	638-3205	638-3305
75	75	639-3010	639-3110	638-3010	638-3110	639-3210	639-3310	638-3210	638-3310
100	100	639-3015	639-3115	638-3015	638-3115	639-3215	639-3315	638-3215	638-3315
150	150	639-3020	639-3120	638-3020	638-3120	639-3220	639-3320	638-3220	638-3320
200	200	639-3025	639-3125	638-3025	638-3125	639-3225	639-3325	638-3225	638-3325

135° & 120° Wide Base Squares



Blade (mm)	Beam (mm)	135°				120°			
		Carbon Steel		Stainless Steel		Carbon Steel		Stainless Steel	
		Grade 1 Order No.	Grade 2 Order No.	Grade 1 Order No.	Grade 2 Order No.	Grade 1 Order No.	Grade 2 Order No.	Grade 1 Order No.	Grade 2 Order No.
100	70	639-6005	639-6105	638-6005	638-6105	639-6055	639-6155	638-6055	638-6155
120	80	639-6007	639-6107	638-6007	638-6107	639-6060	639-6160	638-6060	638-6160
150	100	639-6010	639-6110	638-6010	638-6110	639-6065	639-6165	638-6065	638-6165
200	130	639-6015	639-6115	638-6015	638-6115	639-6070	639-6170	638-6070	638-6170
250	160	639-6020	639-6120	638-6020	638-6120	639-6075	639-6175	638-6075	638-6175
300	175	639-6025	639-6125	638-6025	638-6125	639-6080	639-6180	638-6080	638-6180

90° Wide Base Knife Edge Squares



Blade (mm)	Beam (mm)	Carbon Steel			Stainless Steel			Carbon Steel Black Chrome Blades		
		Grade 00 Order No.	Grade 0 Order No.	Grade 1 Order No.	Grade 00 Order No.	Grade 0 Order No.	Grade 1 Order No.	Grade 00 Order No.	Grade 0 Order No.	Grade 1 Order No.
50	40	639-4055	639-4155	639-4255	638-4055	638-4155	638-4255	639-4655	639-4755	639-4855
75	50	639-4060	639-4160	639-4260	638-4060	638-4160	638-4260	639-4660	639-4760	639-4860
100	70	639-4065	639-4165	639-4265	638-4065	638-4165	638-4265	639-4665	639-4765	639-4865
125	80	639-4067	639-4167	639-4267	638-4067	638-4167	638-4267	639-4667	639-4767	639-4867
150	100	639-4070	639-4170	639-4270	638-4070	638-4170	638-4270	639-4670	639-4770	639-4870
200	130	639-4074	639-4175	639-4275	638-4074	638-4175	638-4275	639-4675	639-4775	639-4875

DIN875 Squares

90° Knife Edge Squares



Blade (mm)	Beam (mm)	Carbon Steel		Stainless Steel		Carbon Steel Black Chrome Blades	
		Grade 0 Order No.	Grade 00 Order No.	Grade 0 Order No.	Grade 00 Order No.	Grade 0 Order No.	Grade 00 Order No.
25	20	639-1102	639-1002	638-1102	638-1002	639-1152	639-1052
40	28	639-1103	639-1003	638-1103	638-1003	639-1153	639-1053
50	32	639-1104	639-1004	638-1104	638-1004	639-1154	639-1054
50	40	639-1105	639-1005	638-1105	638-1005	639-1155	639-1055
63	40	639-1106	639-1006	638-1106	638-1006	639-1156	639-1056
75	50	639-1110	639-1010	638-1110	638-1010	639-1160	639-1060
80	50	639-1111	639-1011	638-1111	638-1011	639-1161	639-1061
100	63	639-1112	639-1012	638-1112	638-1012	639-1162	639-1062
100	70	639-1115	639-1015	638-1115	638-1015	639-1165	639-1065
125	80	639-1116	639-1016	638-1116	638-1016	639-1166	639-1066
150	100	639-1120	639-1020	638-1120	638-1020	639-1170	639-1070
160	100	639-1121	639-1021	638-1121	638-1021	639-1171	639-1071
200	125	639-1122	639-1022	638-1122	638-1022	639-1172	639-1072
200	130	639-1125	639-1025	638-1125	638-1025	639-1175	639-1075
300	200	639-1135	639-1035	638-1135	638-1035	639-1180	639-1080

90° Wide Base Squares



Blade (mm)	Beam (mm)	Carbon Steel			Stainless Steel		
		Grade 0 Order No.	Grade 1 Order No.	Grade 2 Order No.	Grade 0 Order No.	Grade 1 Order No.	Grade 2 Order No.
50	40	639-2105	639-2205	639-2305	638-2105	638-2205	638-2305
75	50	639-2110	639-2210	639-2310	638-2110	638-2210	638-2310
100	70	639-2115	639-2215	639-2315	638-2115	638-2215	638-2315
125	80	639-2116	639-2216	639-2316	638-2116	638-2216	638-2316
150	100	639-2120	639-2220	639-2320	638-2120	638-2220	638-2320
200	130	639-2130	639-2230	639-2330	638-2130	638-2230	638-2330
250	160	639-2132	639-2232	639-2332	638-2132	638-2232	638-2332
300	175	639-2136	639-2236	639-2336	638-2136	638-2236	638-2336
300	200	639-2135	639-2235	639-2335	638-2135	638-2235	638-2335

90° Heavy Base Squares



Blade (mm)	Beam (mm)	Carbon Steel			Stainless Steel		
		Grade 0 Order No.	Grade 1 Order No.	Grade 2 Order No.	Grade 0 Order No.	Grade 1 Order No.	Grade 2 Order No.
50	40	639-2155	639-2255	639-2355	638-2155	638-2255	638-2355
75	50	639-2160	639-2260	639-2360	638-2160	638-2260	638-2360
100	70	639-2165	639-2265	639-2365	638-2165	638-2265	638-2365
125	80	639-2166	639-2266	639-2366	638-2166	638-2266	638-2366
150	100	639-2170	639-2270	639-2370	638-2170	638-2270	638-2370
200	130	639-2175	639-2275	639-2375	638-2175	638-2275	638-2375
300	200	639-2180	639-2280	639-2380	638-2180	638-2280	638-2380

45° & 60° Flat Squares



Blade (mm)	Beam (mm)	45°				60°			
		Carbon Steel		Stainless Steel		Carbon Steel		Stainless Steel	
		Grade 1 Order No.	Grade 2 Order No.	Grade 1 Order No.	Grade 2 Order No.	Grade 1 Order No.	Grade 2 Order No.	Grade 1 Order No.	Grade 2 Order No.
100	70	639-2710	639-2810	638-2710	638-2810	639-6310	639-6410	638-6310	638-6410
125	80	639-2712	639-2812	638-2712	638-2812	639-6312	639-6412	638-6312	638-6412
150	100	639-2715	639-2815	638-2715	638-2815	639-6315	639-6415	638-6315	638-6415
200	130	639-2720	639-2820	638-2720	638-2820	639-6320	639-6420	638-6320	638-6420
250	160	639-2725	639-2825	638-2725	638-2825	639-6325	639-6425	638-6325	638-6425
300	200	639-2730	639-2830	638-2730	638-2830	639-6330	639-6430	638-6330	638-6430

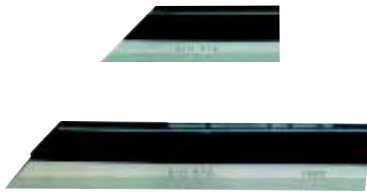
DIN875 Squares



45° & 60° Squares with Wide Base

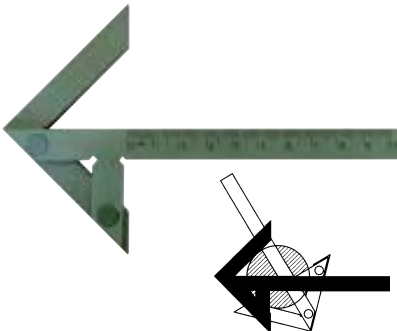
Blade	Beam	45°				60°			
		Carbon Steel		Stainless Steel		Carbon Steel		Stainless Steel	
		Grade 1	Grade 2	Grade 1	Grade 2	Grade 1	Grade 2	Grade 1	Grade 2
(mm)	(mm)	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
100	70	639-1710	639-1810	638-1710	638-1810	639-6610	639-6710	638-6610	638-6710
125	80	639-1712	639-1812	638-1712	638-1812	639-6612	639-6712	638-6612	638-6712
150	100	639-1715	639-1815	638-1715	638-1815	639-6615	639-6715	638-6615	638-6715
200	130	639-1720	639-1820	638-1720	638-1820	639-6620	639-6720	638-6620	638-6720
250	160	639-1725	639-1825	638-1725	638-1825	639-6625	639-6725	638-6625	638-6725
300	200	639-1730	639-1830	638-1730	638-1830	639-6630	639-6730	638-6630	638-6730

DIN874 Straight Edges



Length	Carbon Steel		Stainless Steel		Carbon Steel Black Chrome Blades	
	Grade 00	Grade 0	Grade 00	Grade 0	Grade 00	Grade 0
	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
50mm	639-7003	639-7103	638-7003	638-7103	639-7053	639-7153
75mm	639-7005	639-7105	638-7005	638-7105	639-7055	639-7155
100mm	639-7010	639-7110	638-7010	638-7110	639-7060	639-7160
125mm	639-7015	639-7115	638-7015	638-7115	639-7065	639-7165
150mm	639-7020	639-7120	638-7020	638-7120	639-7070	639-7170
200mm	639-7025	639-7125	638-7025	638-7125	639-7075	639-7175
250mm	639-7030	639-7130	638-7030	638-7130	639-7080	639-7180
300mm	639-7035	639-7135	638-7035	638-7135	639-7085	639-7185
400mm	639-7040	639-7140	638-7040	638-7140	639-7090	639-7190

DIN875/1 Centering Squares



- Satin chromed finish.
- Special steel.
- Determine the center of shaft and discs rapidly.
- Graduation:0.1mm

Blade	Angle length	Carbon Steel Order No.	Stainless Steel Order No.
100mm	70mm	639-2410	638-2410
150mm	130mm	639-2415	638-2415
200mm	150mm	639-2420	638-2420
250mm	160mm	639-2425	638-2425
300mm	180mm	639-2430	638-2430

Locking Type Protractors



- Graduated from 0°-180° in opposite directions.
- Features a knurled thumb locking nut.
- Graduation 1°.

Dia. of Protractor	Length of Blade	Chrome-Plated Tool Steel	Stainless Steel	Dia. of Protractor	Length of Blade	Chrome-Plated Tool Steel	Stainless Steel
		Order No.	Order No.			Order No.	Order No.
80mm	120mm	635-7781	635-7881	300mm	600mm	635-7786	635-7886
120mm	150mm	635-7782	635-7882	300mm	800mm	635-7787	635-7887
150mm	200mm	635-7783	635-7883	400mm	600mm	635-7788	635-7888
200mm	300mm	635-7784	635-7884	400mm	800mm	635-7789	635-7889
300mm	500mm	635-7785	635-7885	400mm	1000mm	635-7790	635-7890