P.P.H.U.

KUT-MET

Stalowe elementy kute

PRODUCENT I DYSTRYBUTOR

ELEMENTÓW KUTYCH

KATALOG PRODUKTÓW

www.kut-met.pl

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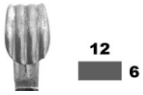
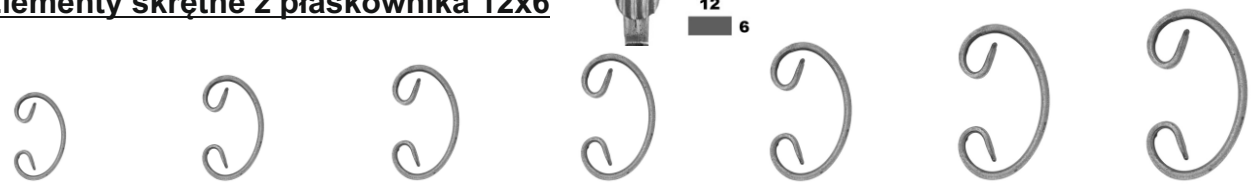
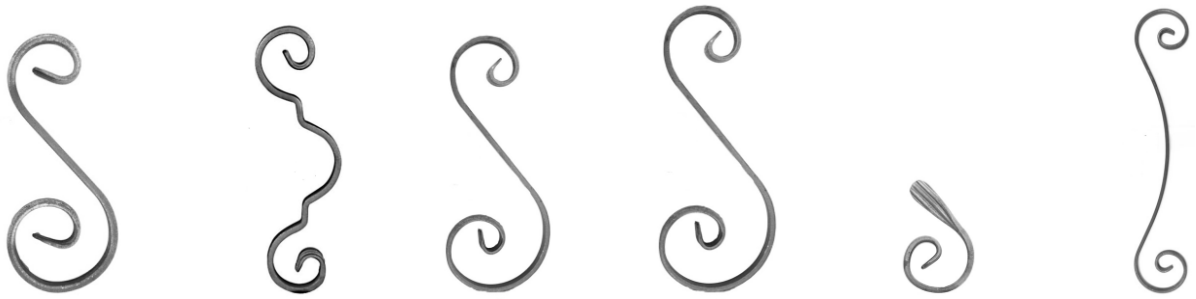
Elementy skrętne z płaskownika 12x6



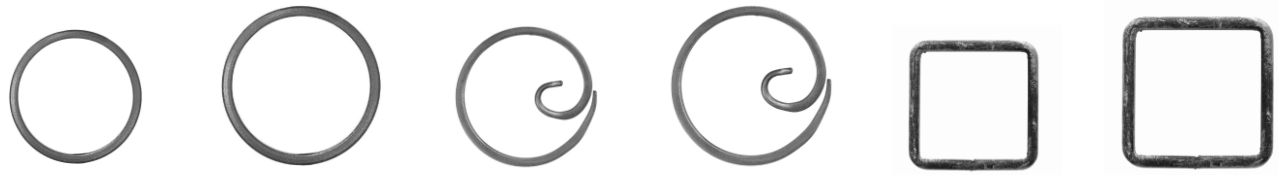


10.091P	10.092P	10.093P	10.094P	10.095P	10.096P	10.097P
12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm
80 x 50 mm	95 x 60 mm	100 x 60 mm	115 x 75 mm	120 x 70 mm	130 x 70 mm	150 x 75 mm

10.098P	10.099P	10.100P	10.103P	10.104P	10.101P
12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm
160 x 80 mm	220 x 120 mm	150 x 70 mm	170 x 80 mm	195 x 90 mm	230 x 115 mm



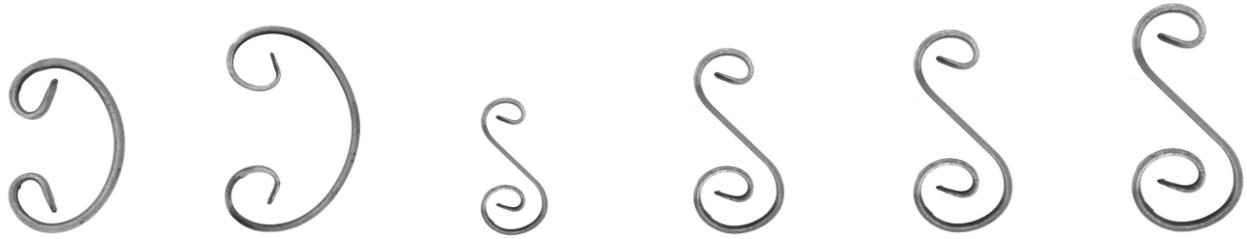
10.102P	10.105P	10.107P	10.108P	10.109P	10.130P
12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm
260 x 115 mm	250 x 75 mm	300 x 120 mm	330 x 130 mm	120 x 80 mm	460 x 80 mm



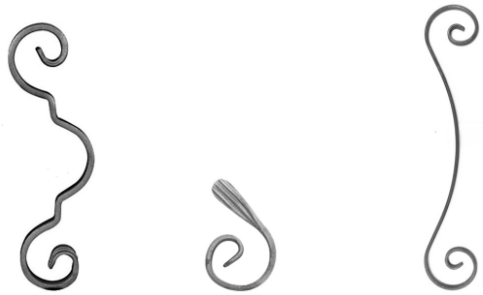
11.031P	11.032P	11.041	11.042	11.051P	11.052P
12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm
ø100 mm	ø120 mm	ø100 mm	ø120 mm	80x80 mm	100x100 mm

Elementy skrętne z płaskownika 12x6 eco

10.091	10.092	10.093	10.094	10.095	10.096	10.097
12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm
80 x 45 mm	95 x 60 mm	100 x 60 mm	115 x 70 mm	120 x 70 mm	130 x 70 mm	150 x 80 mm



10.098	10.099	10.100	10.104	10.101	10.102
12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm
160 x 80 mm	220 x 115 mm	150 x 70 mm	195 x 80 mm	230 x 115 mm	260 x 110 mm

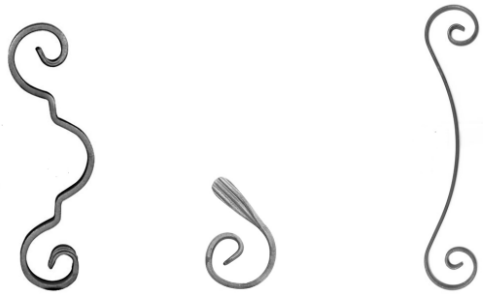


10.105	10.109	10.130
12 x 6 mm	12 x 6 mm	12 x 6 mm
250 x 60 mm	120 x 70 mm	460 x 80 mm

Elementy skrętne z płaskownika 11x5 eco

10.091.04	10.092.04	10.093.04	10.094.04	10.095.04	10.096.04	10.097.04
11x5 mm	11x5 mm	11x5 mm	11x5 mm	11x5 mm	11x5 mm	11x5 mm
80 x 45 mm	95 x 60 mm	100 x 60 mm	115 x 65 mm	120 x 60 mm	130 x 70 mm	150 x 80 mm

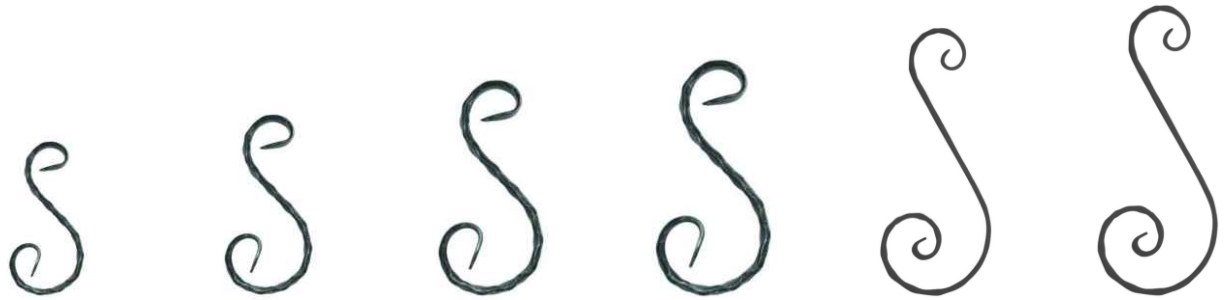
10.098.04	10.099.04	10.100.04	10.104.04	10.101.04	10.102.04
11x5 mm	11x5 mm	11x5 mm	11x5 mm	11x5 mm	11x5 mm
160 x 80 mm	220 x 115 mm	150 x 70 mm	195 x 80 mm	220 x 90 mm	260 x 110 mm



10.105.04	10.109.04	10.130.04
11x5 mm	11x5 mm	11x5 mm
250 x 60 mm	120 x 70 mm	450 x 85 mm

Elementy skrętne z płaskownika fakturowanego 12x6

10.200	10.201	10.202	10.203	10.204	10.205
12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm
80 x 50 mm	100 x 60 mm	120 x 70 mm	130 x 75 mm	160 x 80 mm	220 x 130 mm

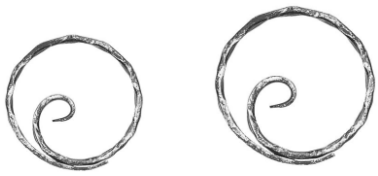


10.206	10.207	10.208	10.209	10.210	10.211
12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm
150 x 65 mm	170 x 80 mm	220 x 100 mm	270 x 110 mm	300 x 120 mm	330 x 130 mm

10.215	10.216	10.220
12 x 6 mm	12 x 6 mm	12 x 6 mm
120 x 60 mm	120 x 60 mm	260 x 60 mm

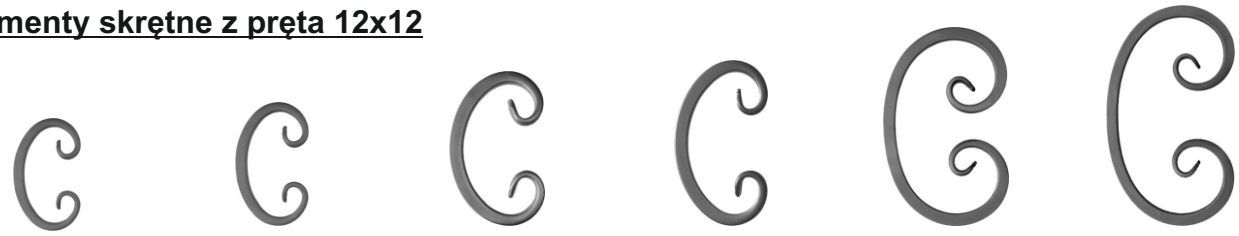
10.221	10.224	10.230	10.231	10.240	10.241
12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm
260 x 75 mm	200 x 100 mm	180 x 90 mm	220 x 120 mm	150 x 100 mm	150 x 100 mm

10.242	10.243	10.250	10.251	11.231	11.232
12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 6 mm
190 x 140 mm	190 x 140 mm	150 x 100 mm	150 x 100 mm	ø100 mm	ø120 mm

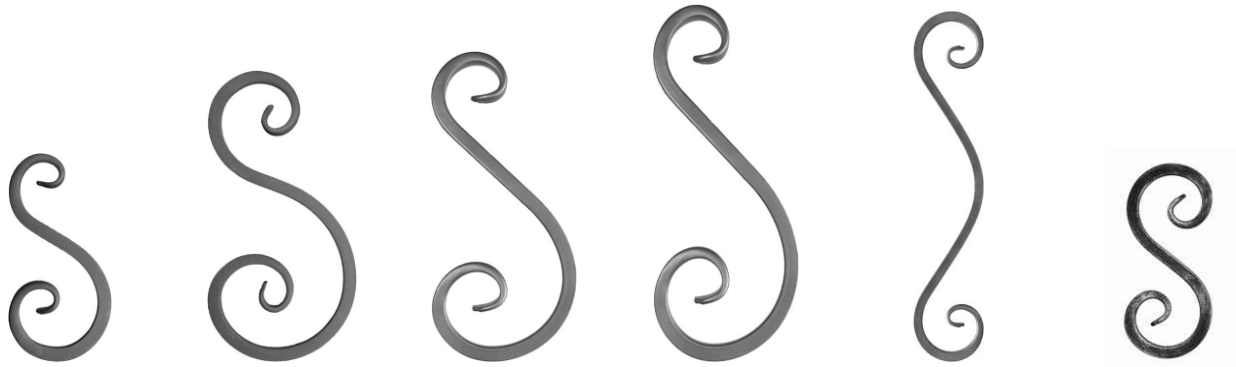


11.241	11.242
12 x 6 mm	12 x 6 mm
ø100 mm	ø120 mm

Elementy skrętne z pręta 12x12



10.300	10.301	10.302	10.303	10.304	10.305
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
100 x 70 mm	120 x 75 mm	130 x 80 mm	150 x 82 mm	190 x 123 mm	220 x 128 mm

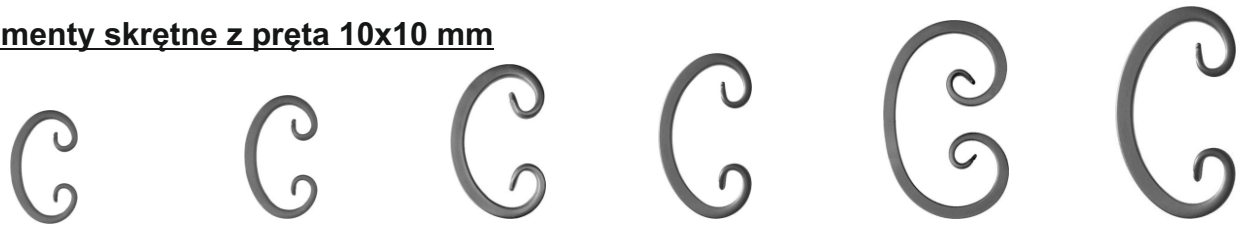


10.310	10.311	10.312	10.313	10.330	10.315
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
180 x 88 mm	250 x 127 mm	260 x 120 mm	260 x 120 mm	450 x 90 mm	200 x 90 mm

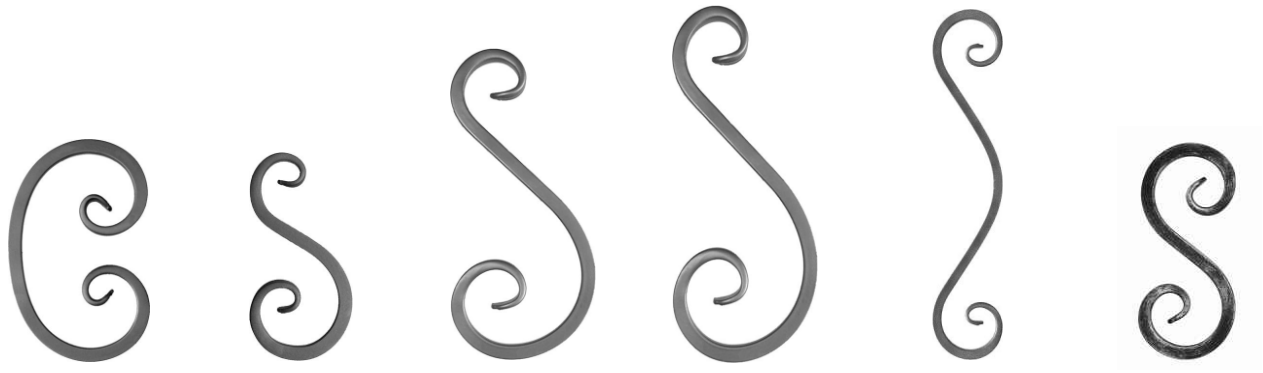
10.316	10.317	10.320	10.321	10.328
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
300 x 100 mm	360 x 120 mm	125 x 65 mm	125 x 65 mm	280 x 80 mm

10.330	10.340	11.331	11.332
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
450 x 90 mm	150 x 80 mm	ø100 mm	ø120 mm

Elementy skrętne z pręta 10x10 mm



10.400	10.401	10.402	10.403	10.404	10.405
10 x 10 mm	10 x 10 mm	10 x 10 mm	10 x 10 mm	10 x 10 mm	10 x 10 mm
100 x 65 mm	120 x 70 mm	130 x 75 mm	150 x 85 mm	180 x 130 mm	220 x 125 mm

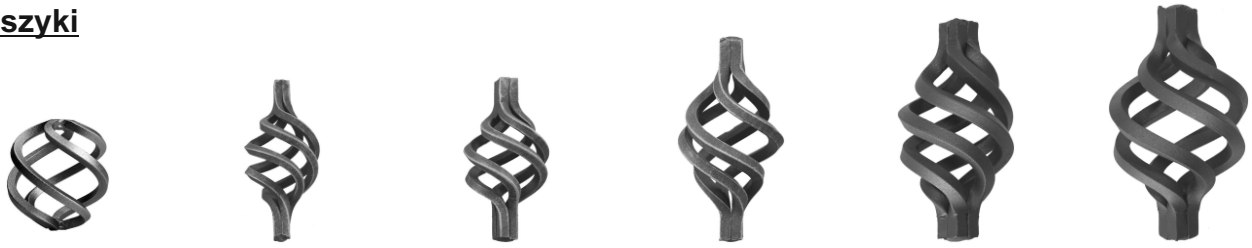


10.406	10.410	10.412	10.413	10.430	10.415
10 x 10 mm	10 x 10 mm	10 x 10 mm	10 x 10 mm	10 x 10 mm	10 x 10 mm
230 x 170 mm	180 x 85 mm	250 x 100 mm	290 x 120 mm	450 x 90 mm	220 x 85 mm

10.416	10.417	10.420	10.421	10.422	10.423	10.428
10 x 10 mm	10 x 10 mm	10 x 10 mm	10 x 10 mm	10 x 10 mm	10 x 10 mm	10 x 10 mm
300 x 100 mm	360 x 120 mm	120 x 65 mm	120 x 65 mm	150 x 80 mm	150 x 80 mm	290 x 75 mm

10.430.01	11.431	11.432
10 x 10 mm	10 x 10 mm	10 x 10 mm
395 x 85 mm	ø100 mm	ø120 mm

Koszyki



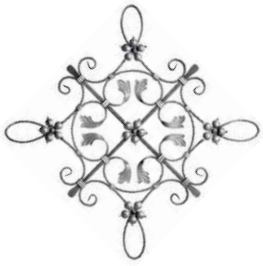
12.010	12.080	12.081	12.082	12.083	12.084
6 x 6 mm	12 x 12 mm	14 x 14 mm	16 x 16 mm	20 x 20 mm	24 x 24 mm
70 x 70 mm	130 x 60 mm	130 x 65 mm	145 x 65 mm	160 x 100 mm	180 x 95 mm

12.111	12.112	12.113	12.115	12.118
12 x 12 mm	12 x 12 mm	12 x 12 mm	15 x 15 mm	18 x 18 mm
130 x 55 mm	150 x 70 mm	190 x 50 mm	150 x 75 mm	190 x 120 mm

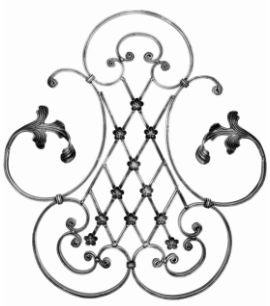
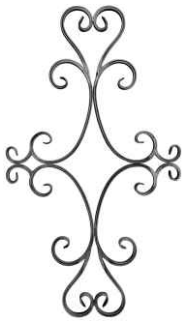
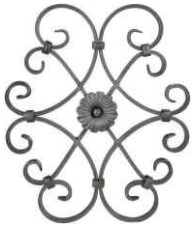
12.124	12.130	12.131	12.148	12.150
24 x 24 mm	16 x 16 mm	16 x 16 mm	12 x 12 mm	12 x 12 mm
190 x 115 mm	160 x 85 mm	210 x 85 mm	200 x 50 mm	330 x 63 mm

Rozety

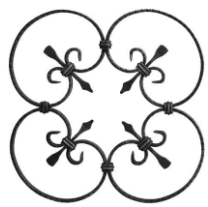
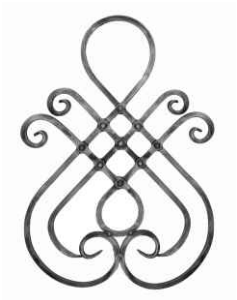
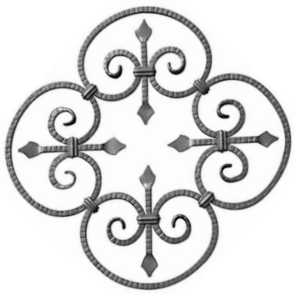
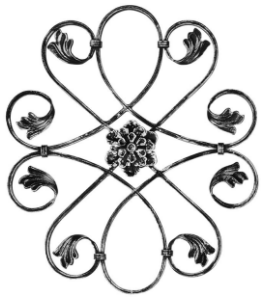
13.000	13.003	13.005	13.006	13.006.01	13.007
12 x 6 mm	8 x 8 mm	20 x 4 mm	12 x 12 mm	12 x 12 mm	10 x 5 mm
240 x 240 mm	250 x 250 mm	250 x 250 mm	375 x 300 mm	320 x 250 mm	250 x 250 mm



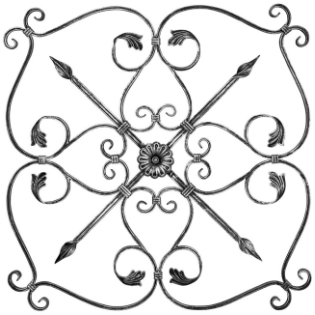
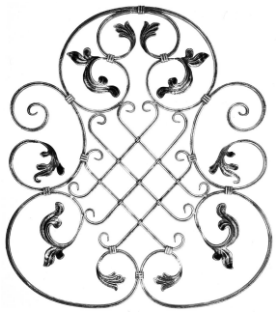
13.008	13.009	13.010	13.011
12 x 6 mm	12 x 6 mm	12 x 6 mm	12 x 12 mm
300 x 300 mm	340 x 340 mm	880 x 880 mm	900 x 900 mm

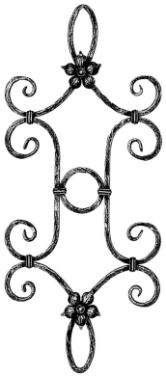
13.012	13.015	13.016	13.017	13.018
16 x 8 mm	16 x 8 mm	16 x 8 mm	16 x 8 mm	12 x 12 mm
710 x 640 mm	800 x 450 mm	480 x 410 mm	800 x 440 mm	530 x 420 mm

13.020	13.023	13.025	13.026
10 x 5 mm	16 x 8 mm	12 x 12 mm	16 x 18 mm
380 x 380 mm	630 x 460 mm	590 x 590 mm	590 x 510 mm

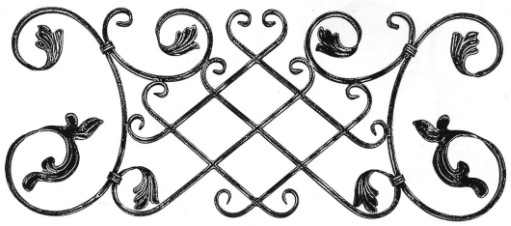



13.027F	13.028	13.029
16 x 18 mm	16 x 18 mm	16 x 18 mm
670 x 640 mm	800 x 800 mm	800 x 700 mm



13.030	13.032	13.033	13.034
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
900 x 385 mm	560 x 400 mm	600 x 370 mm	510 x 690 mm

13.037F	13.038F	13.039F	13.040F	13.041F
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
450 x 340 mm	500 x 250 mm	400 x 400 mm	400 x 350 mm	400 x 300 mm



13.042	13.043	13.044	13.045
16 x 8 mm	16 x 8 mm	16 x 8 mm	16 x 8 mm
370 x 880 mm	800 x 275 mm	800 x 275 mm	800 x 300 mm

13.046	13.048	13.056	13.057	13.058
16 x 8 mm	16 x 8 mm	16 x 8 mm	16 x 8 mm	16 x 8 mm
800 x 300 mm	530 x 300 mm	780 x 780 mm	800 x 270 mm	800 x 180 mm

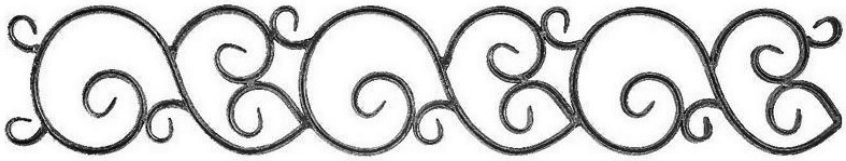
13.059	13.060	13.061	13.067
16 x 8 mm	10 x 5 mm	12 x 6 mm	12 x 6 mm
800 x 180 mm	410 x 165 mm	410 x 165 mm	230 x 740 mm

13.070	13.068
12 x 6 mm	12 x 6 mm
220 x 1200 mm	230 x 740 mm

13.071	13.072
16 x 6 mm	16 x 6 mm
380 x 1500 mm	380 x 1500 mm

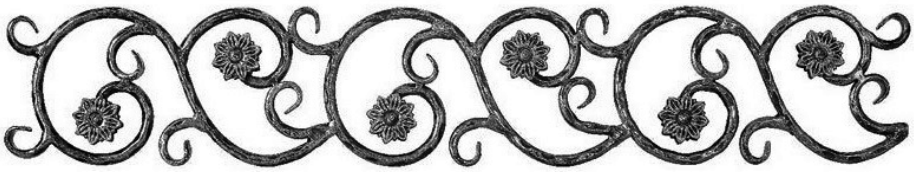
13.073	13.074
16 x 8 mm	16 x 8 mm
330 x 1270 mm	330 x 1270 mm

13.090
16 x 8 mm
170 x 970 mm



13.091
16 x 8 mm
135 x 950 mm

13.092
ø12 mm
135 x 950 mm

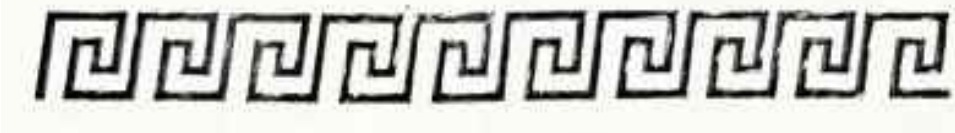


13.093
gr. 4 mm
100 x 1160 mm

13.093.01
gr. 6 mm
97 x 930 mm

13.093.02
gr. 6 mm
127 x 945 mm

13.094
gr. 4 mm
100 x 1160 mm



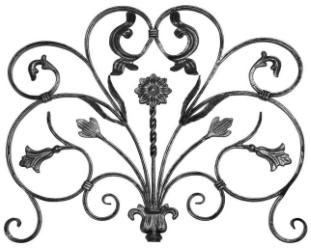
13.096
gr. 4 mm
90 x 1195 mm

13.097
gr. 4 mm
120 x 1183 mm

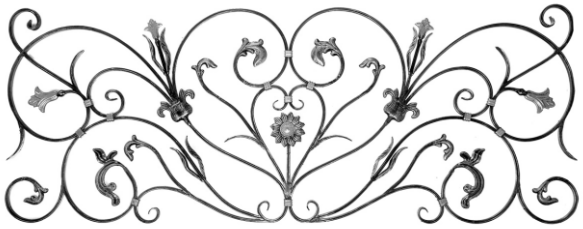
13.100	13.101
ø12 mm	ø12 mm
1080 x 600 mm	1080 x 600 mm

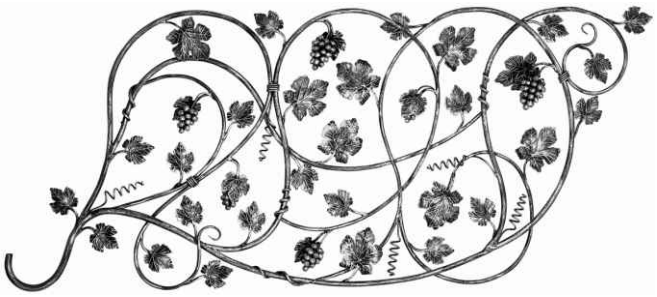
13.104	13.105	13.106	13.107
ø 12 mm	ø 12 mm	ø 12 mm	ø 12 mm
880 x 750 mm	880 x 750 mm	880 x 500 mm	880 x 500 mm

13.111	13.112	13.113
16 x 8 mm	16 x 8 mm	16 x 8 mm
800 x 300 mm	800 x 300 mm	740 x 320 mm



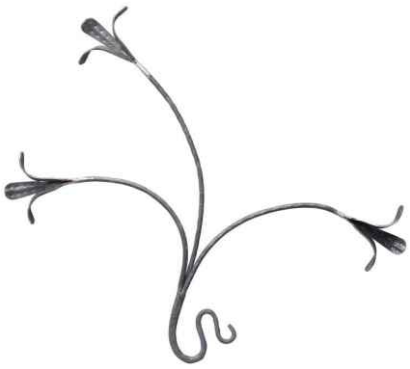
13.190	13.191	13.192
16 x 8 mm	16 x 8 mm	16 x 8 mm
610 x 700 mm	400 x 800 mm	400 x 1000 mm

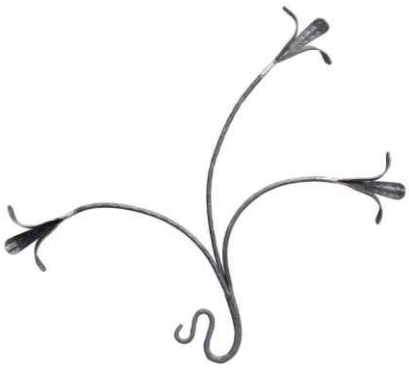




13.198	13.200
16 x 8 mm	ø16,ø14,ø12 mm
600 x 1580 mm	800 x 1500 mm

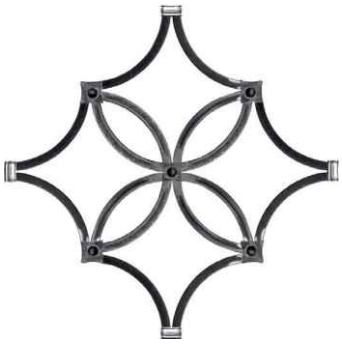
13.202	13.203	13.204
ø 14 mm	ø 14 mm	ø 14 mm
800 x 165 mm	1000 x 215 mm	800 x 165 mm





13.209	13.210	50.175	50.176
ø 12 mm	ø 12 mm	ø 12 mm	ø 12 mm
950 x 880 mm	950 x 880 mm	300 x 190 mm	300 x 190 mm

13.230	13.240	13.241	13.242
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
800 x 680 mm	385 x 485 mm	385 x 540 mm	385 x 420 mm



13.243	13.244	13.245	13.246
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
440 x 385 mm	516 x 516 mm	ø 385 mm	385 x 445 mm

13.247	13.248	13.249	13.250
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
ø 250 x 355 mm	ø 385 x 440 mm	ø 250 x 430 mm	ø 385 mm

13.251	13.252	13.253
12 x 12 mm	12 x 12 mm	12 x 12 mm
ø 250 x 525mm	ø 385 mm	ø 385 x 545 mm

13.254	13.255	13.256	13.301
12 x 12 mm	12 x 12 mm	12 x 12 mm	5mm
420 x 385 mm	460 x 385 mm	500 x 250 mm	550 x 400 mm

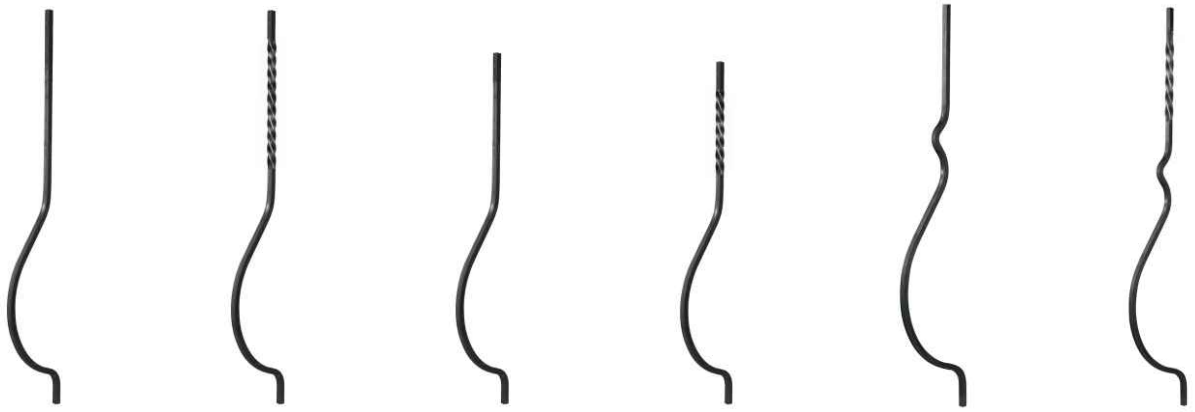
13.302	13.303	13.304	13.305
5 mm	5 mm	5 mm	5 mm
660 x 470 mm	530 x 490 mm	560 x 460 mm	430 x 340 mm

Rozety z żeliwa

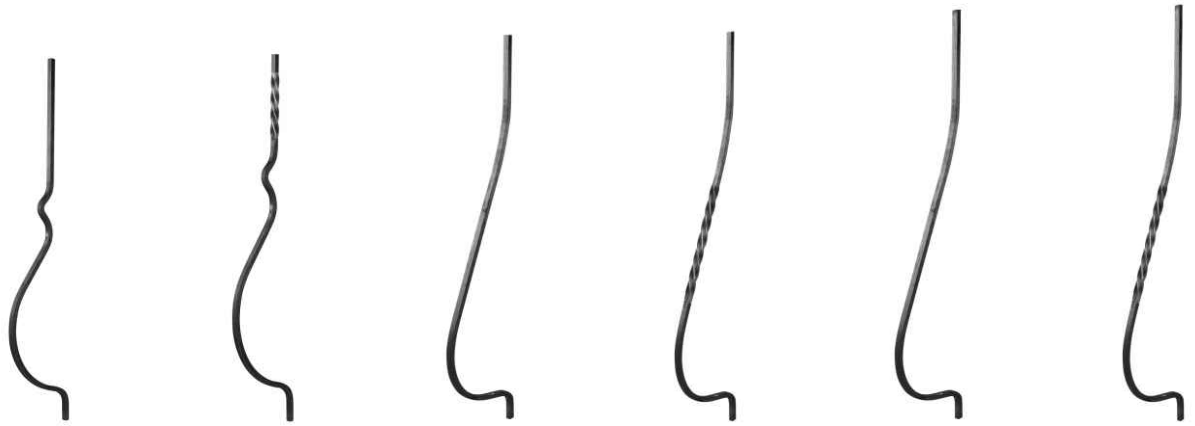
55.001	55.003	55.005	55.006	55.007
14 x 14 mm	14 x 14 mm	14 x 14 mm	14 x 14 mm	14 x 14 mm
380 x 190 mm	400 x 190 mm	455 x 200 mm	165 x 138 mm	280 x 130 mm

55.030	55.031
500 x 100 mm	870 x 150 mm

Tralki z brzuchem



20.001	20.001.01	20.001A	20.001.01A	20.003	20.003.01
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
950 x 170 mm	950 x 170 mm	850 x 170 mm	850 x 170 mm	950 x 170 mm	950 x 170 mm



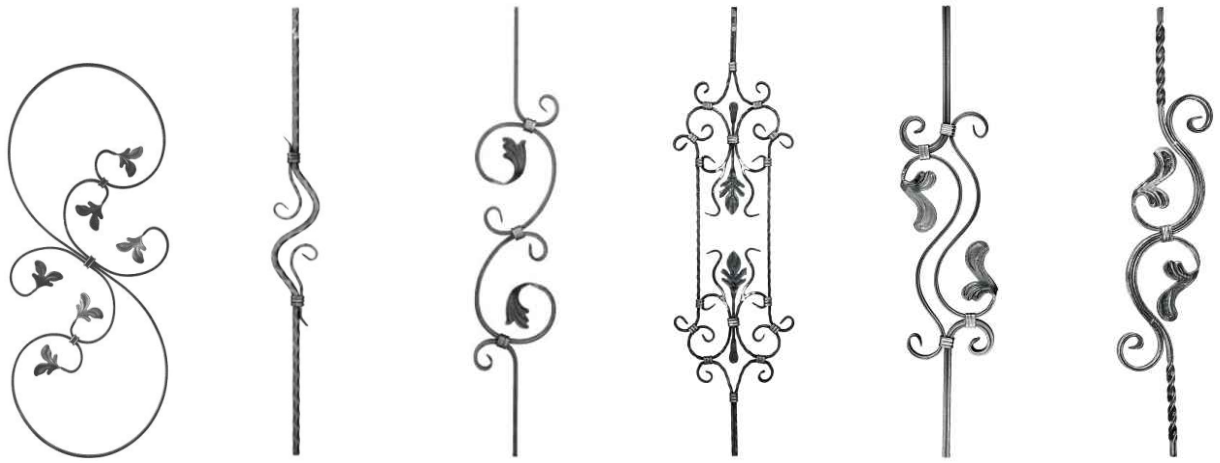
20.003A	20.003.01A	20.009	20.009.01	20.010	20.010.01
12 x 12mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
850 x 170 mm	850 x 170 mm	900 x 175 mm	900 x 175 mm	950 x 175 mm	950 x 175 mm

20.100	20.102	20.105	20.130	20.148	20.149
12 x 12 mm	12 x 12 mm	12 x 12 mm	30 x 5 mm	50 x 10 mm	16 x 16 mm
950 x 200 mm	950 x 210 mm	800 x 225 mm	800 x 170 mm	850 x 185 mm	950 x 225 mm

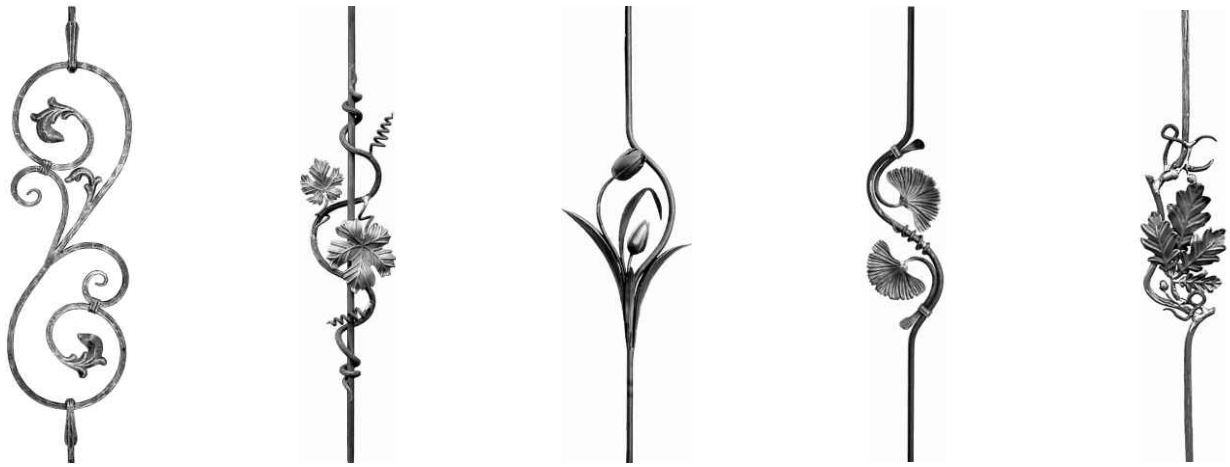
Tralki proste:

Możemy wykonać tralki na inną długość z pręta od 12x12 do 20x20mm - wycena indywidualna

21.010	21.011	21.010.01	21.011.01	21.010.03	21.011.03
12 x 12 mm	12 x 12 mm	14 x 14 mm	14 x 14 mm	16 x 16 mm	16 x 16 mm
H 950 mm	H 950 mm	H 950 mm	H 950 mm	H 950 mm	H 950 mm



21.116	21.117	21.118	21.119	21.120	21.122
12 x 6 mm	12 x 12 mm	16 x 8 mm	12 x 12 mm	12 x 12 mm	16 x 8 mm
860 x 350 mm	950 x 95 mm	950 x 155 mm	950 x 270 mm	950 x 240 mm	950 x 165 mm



21.124	21.140	21.141	21.142	21.143
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	ø 12 mm
950 x 240 mm	950 x 200 mm	950 x 275 mm	950 x 165 mm	950 x 180 mm

21.144	21.145	21.146	21.147	21.148
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
H 950 mm	H 950 mm	H 950 mm	H 950 mm	H 950 mm

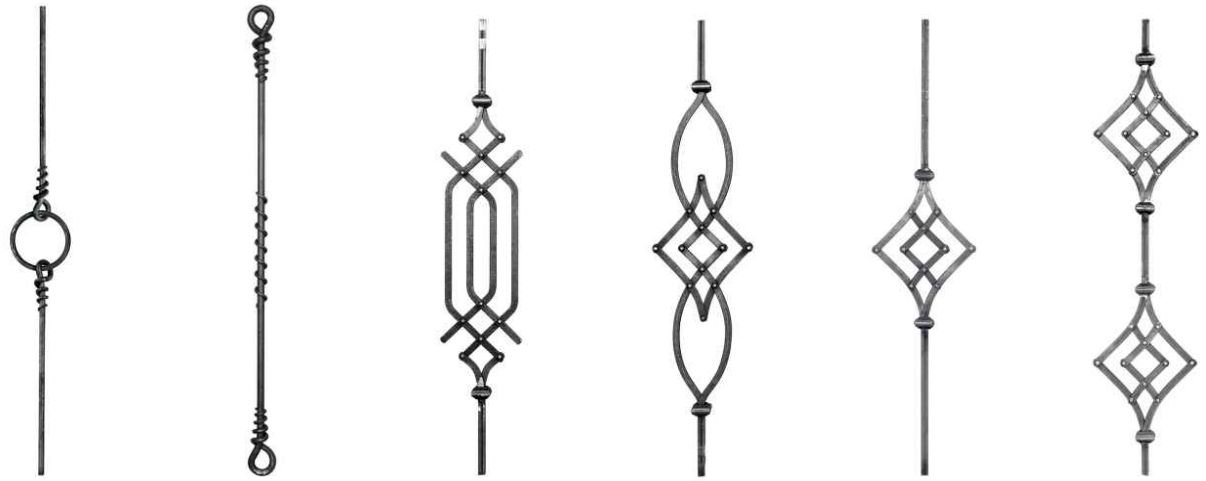
Tralki rurowe:

21.900	21.901	21.902
ø 30 x 1,5 mm	ø 30 x 1,5 mm	ø 30 x 1,5 mm
H 900 mm	H 900 mm	H 900 mm

Tralki kute:

22.001	22.002	22.003	22.004	22.005
ø 14 mm	ø 14 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
H 950 mm	H 950 mm	H 950 mm	H 950 mm	H 950 mm

22.013	22.014	22.019	22.020	22.021	22.022
12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	ø 12 mm	ø 12 mm
H 900 mm	H 900 mm	H 950 mm	H 950 mm	H 950 mm	H 950 mm



22.051	22.053	22.100	22.103	22.104	22.105
ø 12 mm	ø 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm	12 x 12 mm
1000 x 120 mm	H 1000 mm	950 x 140 mm	950 x 185mm	950 x 180 mm	950 x 180 mm

22.106	22.107	23.001	23.002	23.003	23.004
12 x 12 mm	12 x 12 mm	ø 12 mm	ø 12 mm	14 x 14 mm	14 x 14 mm
950 x 180 mm	950 x 145 mm	950 mm	950 mm	950 mm	950 mm

23.005	23.006	23.007	23.008	23.009	23.010
ø 12 mm	ø 12 mm	12 x 12 mm	12 x 12 mm	14 x 14 mm	14 x 14 mm
H 950 mm	H 950 mm	H 950 mm	H 950 mm	H 950 mm	H 950 mm

23.013	23.014	23.015	23.020	23.021
14 x 14 mm	14 x 14 mm	14 x 14 mm	ø 12 mm	ø 12 mm
H 950 mm	H 950 mm	H 950 mm	H 950 mm	H 950 mm

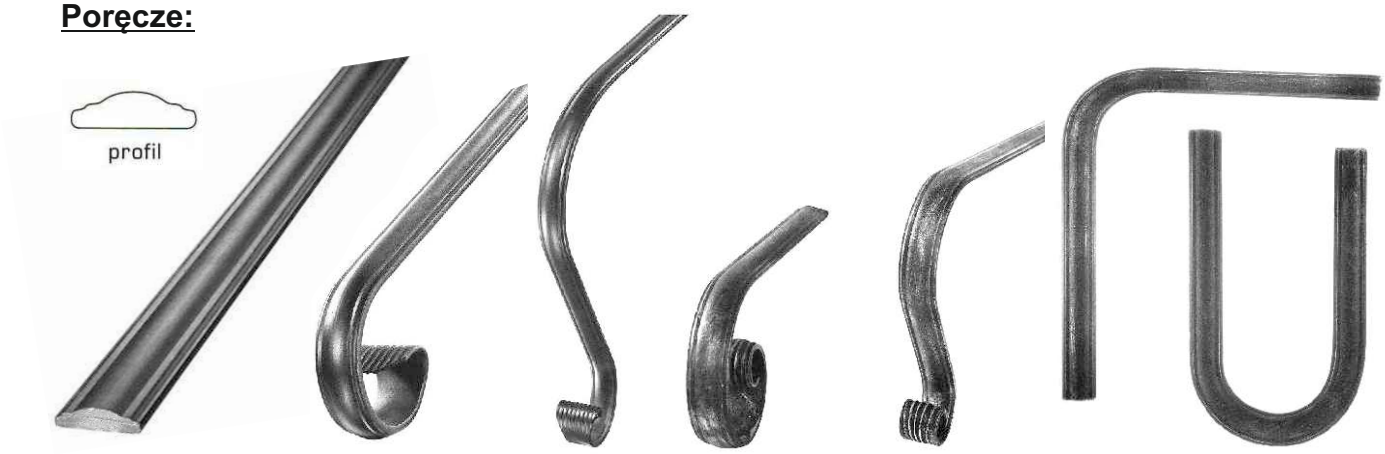
23.024
14 x 14 mm
H 950 mm

Słupy balustradowe:

24.011	24.111	24.112	24.151
20 x 20 mm	ø 25 mm	ø 28 mm	25 x 25 mm
H 1200 mm	H 1200 mm	H 1200 mm	H 1200 mm

24.254	24.255	24.257	24.259	24.266
25 x 25 mm	25 x 25 mm	25 x 25 mm	25 x 25 mm	25 x 25 mm
H 1200 mm	H 1200 mm	H 1200 mm	H 1200 mm	H 1200 mm

Poręcze:



30.001	30.001.01	30.001.02	30.001.03	30.001.04	30.001.05	30.001.06
40 x 12 mm	40 x 12 mm	40 x 12 mm	40 x 12 mm	40 x 12 mm	40 x 12 mm	40 x 12 mm
3000 mm	100 x 350 mm	680 mm	180 x 300 mm	400 mm	300 x 300 mm	250 x 250 mm

30.002	30.002.01	30.002.02	30.002.03	30.002.04	30.002.05	30.002.06
50 x 14 mm	50 x 14 mm	50 x 14 mm	50 x14 mm	50 x 14 mm	50 x 14 mm	50 x 14 mm
3000 mm	100 x 350 mm	680 mm	180 x 300 mm	400 mm	300 x 300 mm	250 x 250 mm

30.003	30.003.01	30.003.02	30.003.03	30.003.04	30.003.05	30.003.06
40 x 10 mm	40 x 10 mm	40 x 10 mm	40 x 10 mm	40 x 10 mm	40 x 10 mm	40 x 10 mm
3000 mm	100 x 350 mm	680 mm	180 x 300 mm	400 mm	300 x 300 mm	250 x 250 mm

30.008	30.008.01	30.008.02	30.008.03	30.008.04	30.008.05
40 x 8 mm	40 x 8 mm	40 x 8 mm	40 x 8 mm	40 x 8 mm	40 x 8 mm
3000 mm	100 x 350 mm	680 mm	180 x 300 mm	400 mm	300 x 300 mm

30.010	30.010.01	30.010.02	30.010.03	30.010.05	30.010.06
40 x 8 mm	40 x 8 mm	40 x 8 mm	40 x 8 mm	40 x 8 mm	40 x 8 mm
3000 mm	100 x 350 mm	600 mm	180 x 350 mm	300 x 300 mm	250 x 250 mm

30.103	30.103.01	30.103.02	30.103.03	30.103.05	30.103.06
40 x 8 mm	40 x 8 mm	40 x 8 mm	40 x 8 mm	40 x 8 mm	40 x 8 mm
3000 mm	100 x 350 mm	680 mm	180 x 300 mm	300 x 300 mm	250 x 250 mm

30.105	30.105.01	30.105.02
40 x 5 mm	40 x 5 mm	40 x 5 mm
3000 mm	100 x 350 mm	680 mm

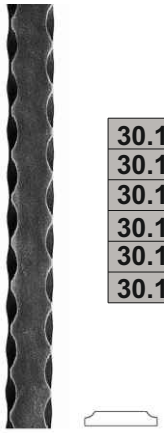
30.113	30.113.01	30.113.04
40 x 5 mm	40 x 5 mm	40 x 5 mm
3000 mm	100 x 350 mm	400 mm

30.020	30.020.01	30.020.02	30.030
48 x 20 mm	48 x 20 mm	48 x 20 mm	48 x 20 mm
3000x1,4 mm	3000x1,4 mm	3000x1,4 mm	50 mm

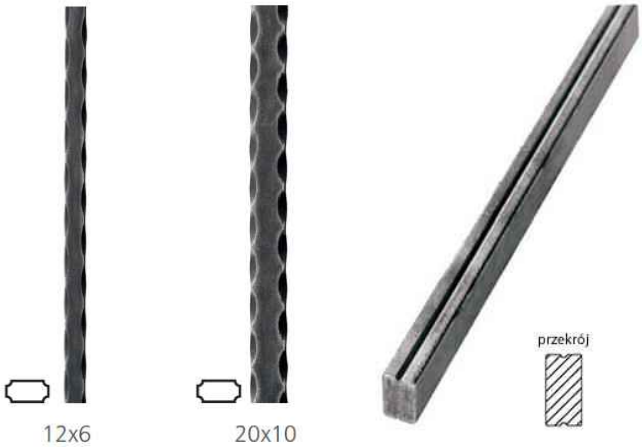
30.021	30.021.01	30.021.02	30.031
62 x 30 mm	62 x 30 mm	62 x 30 mm	62 x 30 mm
3000x1,4 mm	3000x1,4 mm	3000x1,4 mm	50 mm

30.022	30.022.01	30.022.02	30.032
54 x 54 mm	54 x 54 mm	54 x 54 mm	54 x 54 mm
3000x1,4 mm	3000x1,4 mm	3000x1,4 mm	36 mm

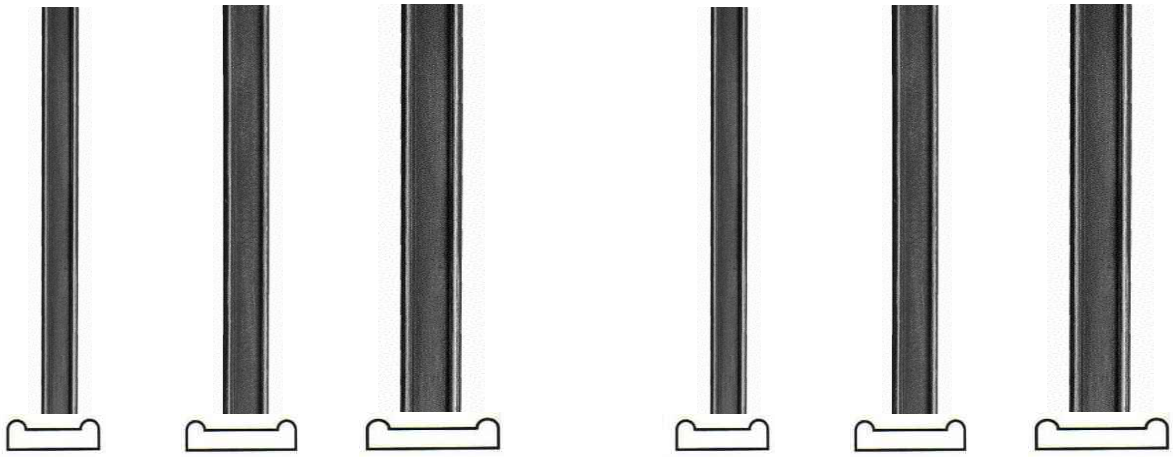
Płaskowniki:



30.100	20 x 5 mm	L 3000
30.100.01	20 x 5 mm	L 6000
30.101	25 x 5 mm	L 3000
30.101.01	25 x 5 mm	L 6000
30.102	30 x 5 mm	L 3000
30.102.01	30 x 5 mm	L 6000

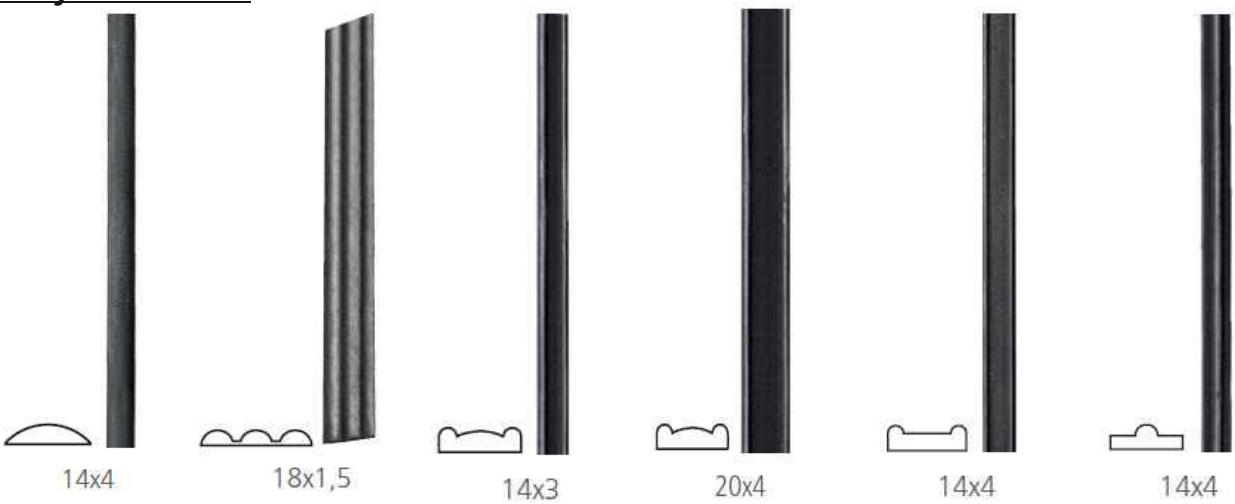


30.200	30.202	30.220
12 x 6 mm	20 x 10 mm	16 x 8 mm
L 3000 mm	L 3000 mm	L 3000 mm



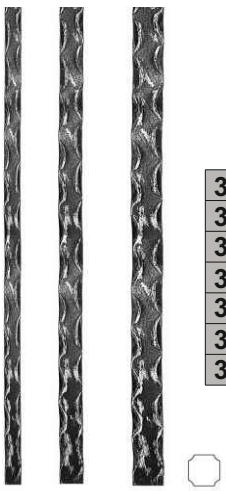
31.101	31.102	31.103	31.101.01	31.102.01	31.103.01
25 x 8 mm	30 x 8 mm	40 x 8 mm	25 x 8 mm	30 x 8 mm	40 x 8 mm
L 3000 mm	L 3000 mm	L 3000 mm	L 6000 mm	L 6000 mm	L 6000 mm

Taśmy zakuciowe:

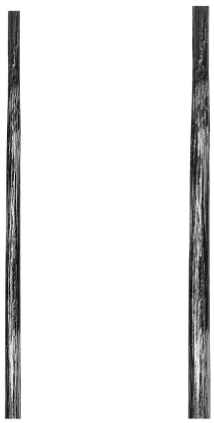


31.300	31.350	31.400	31.402	31.403	31.404
14 x 4 mm	18 x 1,5 mm	14 x 3 mm	20 x 4 mm	14 x 4 mm	14 x 4 mm
L 3000 mm	L 2000 mm	L 3000 mm	L 3000 mm	L 3000 mm	L 3000 mm

Pręty ozdobne:

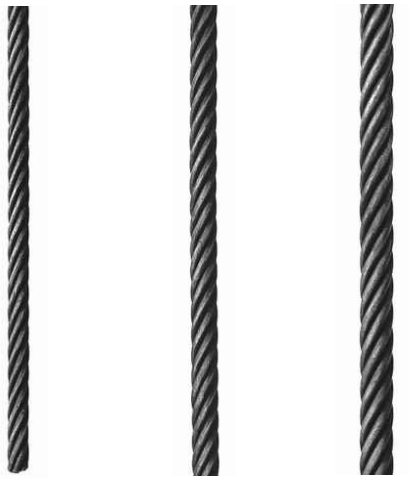


32.001	12 x 12	L 3000
32.001.01	12 x 12	L 6000
32.003	14 x 14	L 3000
32.003.01	14 x 14	L 6000
32.005	16 x 16	L 3000
32.005.01	16 x 16	L 6000
32.007	20 x 20	L 3000



32.100	32.101
ø 10 - 12 mm	ø 12 - 16 mm
L 1100 mm	L 1100 mm

32.111	ø 8	L 3000
32.112	ø 10	L 3000
32.112.01	ø 10	L 6000
32.113	ø 12	L 3000
32.113.01	ø 12	L 6000
32.114	ø 14	L 3000
32.114.01	ø 14	L 6000
32.115	ø 16	L 3000
32.115.01	ø 16	L 6000
32.117	ø 20	L 3000



32.200	32.201	32.202
ø25 mm	ø 30 mm	ø 38 mm
L 2750 mm	L 2750 mm	L 2750 mm

Pręty otworowe:

33.000	33.001	33.013	33.023	33.098
12 x 12 mm	14 x 14 mm	14 x 14 mm	ø 14 mm	12 x 12 mm
L 2000 mm	L 2000 mm	L 2000 mm	L 2000 mm	L 2000 mm

33.100	33.099	33.201
14 x 14 mm	12 x 12 mm	12 x 6 mm
L 2000 mm	L 2000 mm	L2000 x 65 mm

Profile fakturowane:

34.000	34.002	34.005	34.008	34.011	34.014	34.017
15x15x1,5	20x20x2	25x25x2	30x30x2	40x40x2,5	50x50x3	60x60x3
L 3000 mm	L 3000 mm	L 3000 mm	L 3000 mm	L 3000 mm	L 3000 mm	L 3000 mm

34.020	34.023
80x80x3	100x100x3
L 3000 mm	L 3000 mm

34.102	34.105	34.107	34.111	34.120
30x20x2	40x20x2	40x30x2	50x30x3	60x40x3
L 3000 mm	L 3000 mm	L 3000 mm	L 3000 mm	L 3000 mm

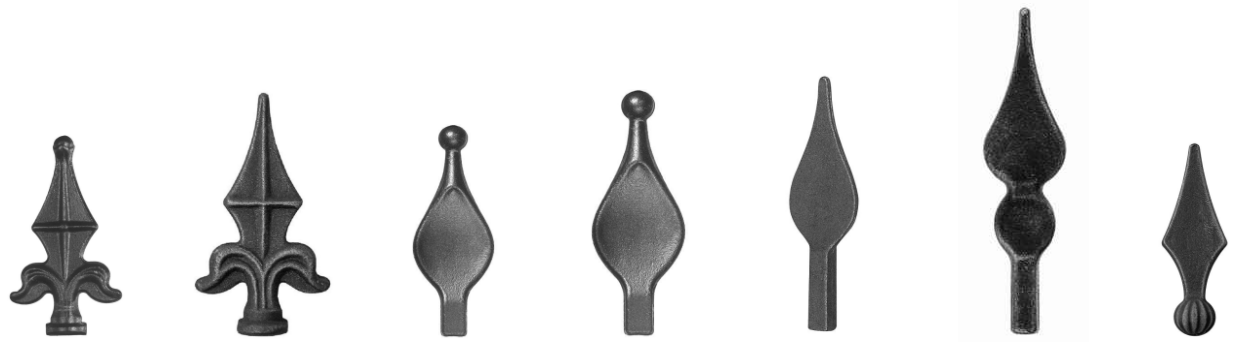
Groty:

40.001	40.002	40.003	40.006	40.007	40.008	40.011
☐ ø15 mm	☐ ø16 mm	☐ ø24 mm	☐ ø25 mm	☐ ø30 mm	☐ ø18 mm	☐ ø12 mm
150 x 55 mm	150 x 66 mm	160 x 63 mm	110 x 55 mm	125 x 65 mm	110 x 48 mm	100 x 45 mm

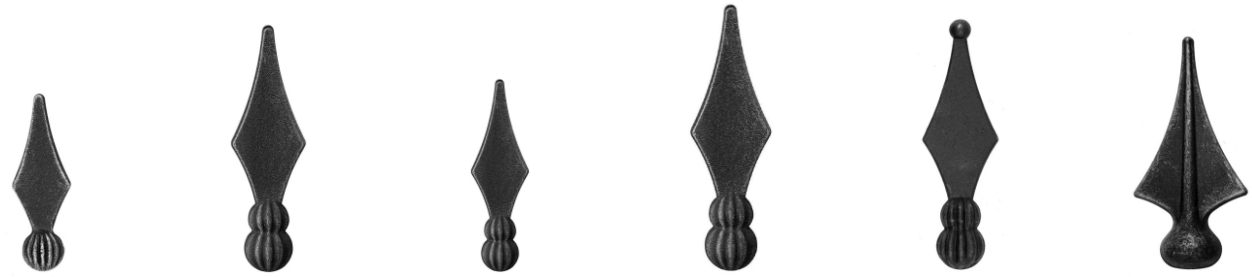
40.012	40.013	40.017	40.018	40.041	40.045
☐ ø15 mm	☐ ø16 mm	☐ ø24 mm	☐ ø25 mm	☐ ø13 mm	☐ ø13 mm
125 x 55 mm	145 x 120 mm	128 x 65 mm	140 x 70 mm	125 x 60 mm	130 x 53 mm

40.048	40.049	40.050	40.052	40.052.02	40.053
☐ ø20 mm	☐ ø26 mm	☐ ø20 mm	☐ ø12 mm	☐ ø12 mm	☐ ø17 mm
110 x 60 mm	135 x 70 mm	130 x 70 mm	130 x 60 mm	130 x 60 mm	155 x 70 mm

40.055	40.056	40.058	40.059	40.060	40.060.01
☐ ø20 mm	☐ ø25 mm	☐ ø20 mm	☐ ø25 mm	☐ ø20 mm	☐ ø16 mm
80 x 45 mm	125 x 65 mm	120 x 55 mm	135 x 65 mm	115 x 58 mm	82 x 40 mm



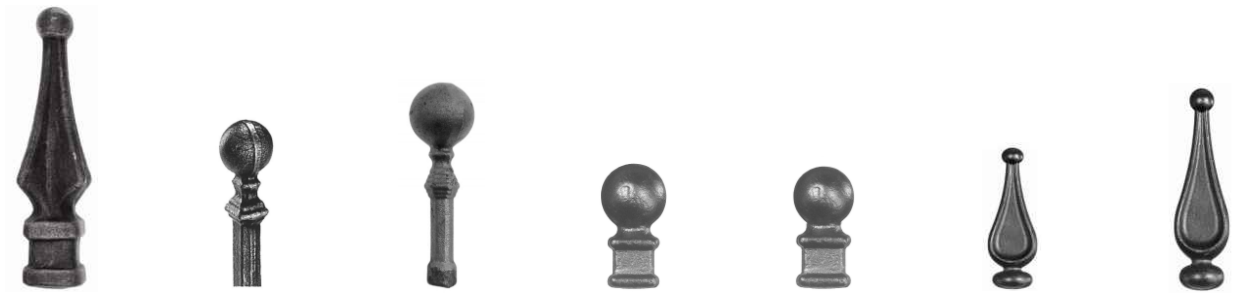
40.060.02	40.061	40.065	40.066	40.067	40.068	40.071
☐ ø20 mm	☐ ø26 mm	☐ 12x12 mm	☐ 14x14 mm	☐ 12x12 mm	☐ 14x14 mm	☐ ø25 mm
115 x 58 mm	140 x 70 mm	120 x 42 mm	140 x 47 mm	150 x 40 mm	180 x 43 mm	125 x 40 mm



40.071.01	40.072	40.071.01	40.073	40.075	40.077
☐ ø20 mm	☐ ø25 mm	☐ ø20 mm	☐ ø30 mm	☐ ø25 mm	☐ ø32 mm
95 x 30 mm	135 x 40 mm	98 x 33 mm	160 x 50 mm	135 x 40 mm	125 x 60 mm

40.077.02	40.078	40.079	40.080	40.081	40.083
☐ ø25 mm	☐ 15x15 mm	☐ 18x14 mm	☐ ø16 mm	☐ ø16 mm	☐ ø25 mm
110 x 50 mm	140 x 50 mm	100 x 55 mm	155 x 65 mm	160 x 65 mm	125 x 45 mm

40.088.01	40.089	40.092	40.092.01	40.093
☐ 20x20 mm	☐ 25x25 mm	☐ 20x20 mm	☐ 15x15 mm	☐ 32x32 mm
100 x 20 mm	160 x 25 mm	125 x 30 mm	82 x 20 mm	160 x 40 mm



40.094	40.095	40.096	40.097	40.097.30	40.098.03	40.098.02
☐ 40x40 mm	☐ 12x12 mm	☐ ø18 mm	☐ 24x24 mm	☐ 24x24 mm	☐ ø24 mm	☐ ø30 mm
190 x 50 mm	95 x 27 mm	125 x 40 mm	60 x 35 mm	60 x 30 mm	88 x 28 mm	120 x 35 mm

40.098.01	40.099	40.099.01	40.099.02	40.099.03	40.099.04
☐ ø33 mm	☐ ø19 mm	☐ 25x25 mm	☐ 30x30 mm	☐ 40x40 mm	☐ 18x21 mm
150 x 40 mm	190 x 75 mm	120 x 67 mm	155 x 92 mm	200 x 117 mm	105 x 53 mm

40.100	40.102	40.102.01	40.104	40.106	40.110
☐ ø16 mm	☐ ø13 mm	☐ 14x14 mm	☐ ø16 mm	☐ 15x15 mm	☐ 18x18 mm
160 x 90 mm	140 x 50	110 x 50 mm	160 x 65 mm	145 x 80 mm	245 x 80 mm

40.111	40.112	40.112.01	40.117	40.118	40.123
☐ 26x26 mm	☐ ø40 mm	☐ ø16 mm	☐ ø29 mm	☐ ø35 mm	☐ 12x12 mm
290 x 75 mm	200 x 100 mm	120 x 73 mm	180 x 60 mm	205 x 65 mm	90 x 63 mm

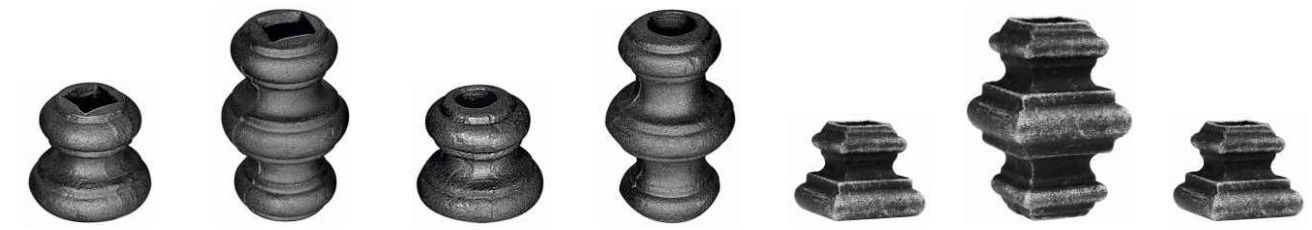
40.125	40.126	40.133	40.138	40.140
☐ 20x20 mm	☐ ø33 mm	☐ 12x12 mm	☐ 14x14 mm	☐ 16x16 mm
135 x 90 mm	130 x 47 mm	150 x 30 mm	150 x 30 mm	57 x 38 mm

40.150	40.151	40.153	40.154	40.155	40.156
☐ ø12 mm	☐ 12x12 mm	☐ 16x16 mm	☐ 16x16 mm	☐ 20x20 mm	☐ ø16 mm
92 x 35 mm	120 x 35 mm	107 x 25 mm	142 x 28 mm	148 x 35 mm	132 x 85 mm

40.157	40.162	40.170	40.200	40.210	40.211	40.300
☐ ø26 mm	☐ 16x16 mm	☐ 12x12 mm	☐ ø22 mm	☐ 15x15 mm	☐ 18x18 mm	
134 x 64 mm	105 x 60	200 mm	80 x 22 mm	82 x 15 mm	110 x 18 mm	150 x 85 mm

Nasadki:

41.001	41.002	41.002.01	41.003	41.004	41.005	41.006
☐ 12,5 mm	☐ 12,5 mm		☐ 14,5 mm	☐ 14,5 mm	☐ ø14,5 mm	☐ ø14,5 mm
39 x 40 mm	67 x 40 mm	67 x40 mm	44 x 45 mm	67 x 45 mm	39 x 40 mm	67 x 40 mm



41.007	41.008	41.011	41.012	41.021	41.022	41.023
☐ 16,5 mm	☐ 16,5 mm	☐ ø16,5 mm	☐ ø16,5 mm	☐ 12,5 mm	☐ 12,5 mm	☐ 14,5 mm
44 x 45 mm	67 x 45 mm	44 x 45 mm	67 x 45 mm	40 x 38 mm	65 x 38 mm	40 x 38 mm

41.024	41.025	41.026	41.050	41.060	41.070
☐ 14,5 mm	☐ 16,5 mm	☐ 16,5 mm	☐ ø35,5 mm	☐ 30,5 mm	☐ 27 mm
65 x 38 mm	40 x 38 mm	65 x 38 mm	80 x 69 mm	80 x 69 mm	215 x 63 mm

41.102	41.104	41.105	41.106	41.111	41.114	41.115
☐ 12,5 mm	☐ 14,5 mm	☐ 16,5 mm	☐ 21 mm	☐ ø12,5 mm	☐ ø14,5 mm	☐ ø16,5 mm
22 x 40 mm	22 x 40 mm	22 x 40 mm	25 x 45 mm	25 x 35 mm	22 x 40 mm	22 x 40 mm

41.202	41.204	41.205	41.206	41.207	41.306	41.307
☐ 12,5 mm	☐ 14,5 mm	☐ 16,5 mm	☐ 20,5 mm	☐ 25,5 mm	☐ 14,5 mm	☐ 14,5 mm
22 x 33 mm	22 x 38 mm	22 x 38 mm	35 x 55 mm	35 x 55 mm	70 x 35 mm	130 x 35 mm

41.315	41.316	41.317	41.318	41.400
☐ 16 mm	☐ 16 mm	☐ ø16 mm	☐ ø16 mm	☐ ø12 mm
75 x 42 mm	148 x 48 mm	75 x 38 mm	128 x 40 mm	140 x 28 mm

41.401	41.402	41.403	41.407	41.408	41.409
☐ 12 mm	☐ 12mm	☐ 14 mm	☐ 12-14 mm	☐ 16-20 mm	☐ 20 mm
140 x 26 mm	160 x 25 mm	80 x 32 mm	75 x 30 mm	75 x 35 mm	140 x 35 mm

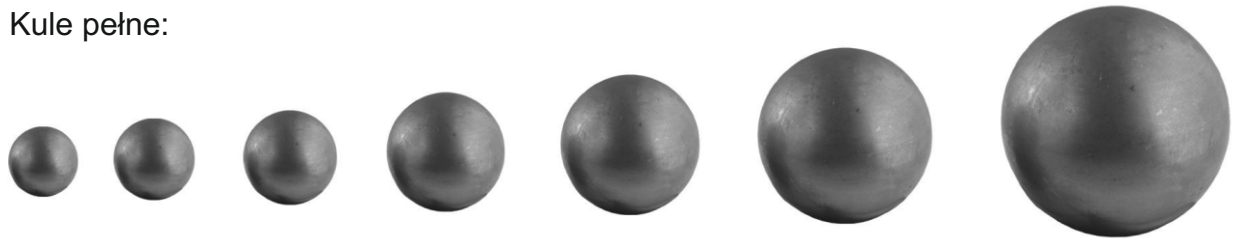
Gałki:

42.000	42.001	42.003	42.004	42.005	42.006
ø28 mm	ø40 mm	ø50 mm	☐ 25x25 mm	☐ 40x40 mm	ø27 mm
H 80 mm	H 90 mm	H 90 mm	H 60 mm	H 85 mm	H 60 mm

42.007	42.011	42.012	42.013
ø42 mm	ø30 mm	ø45 mm	ø55 mm
H 85 mm	H 45 mm	H 60 mm	H 70 mm

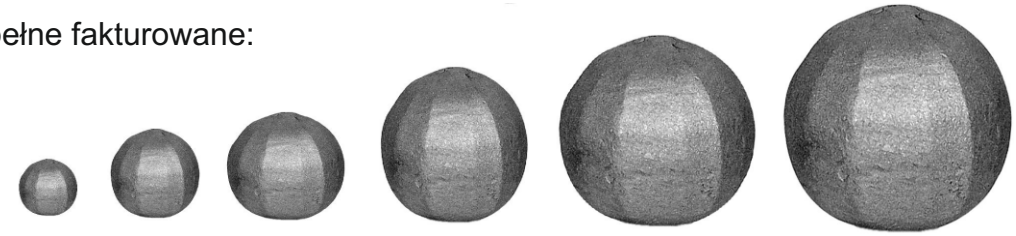
Kule:

Kule pełne:



43.015	43.020	43.025	43.030	43.035	43.040	43.050
ø15 mm	ø20 mm	ø25 mm	ø30 mm	ø35 mm	ø40 mm	ø50 mm

Kule pełne fakturowane:

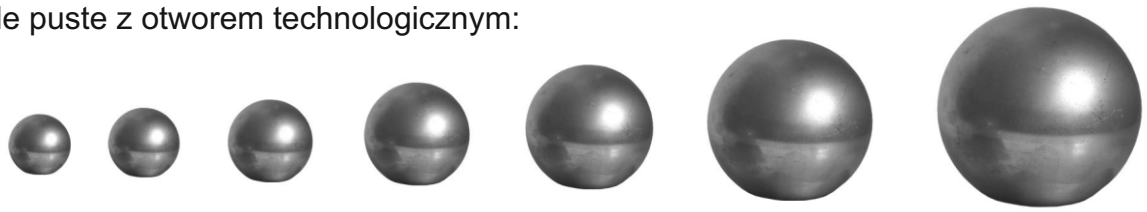


43.120	43.125	43.130	43.135	43.140	43.150
ø20 mm	ø25 mm	ø30 mm	ø35 mm	ø40 mm	ø50 mm

Kule pełne prążkowane:

43.220	43.230	43.240	43.250
ø20 mm	ø30 mm	ø40 mm	ø50 mm

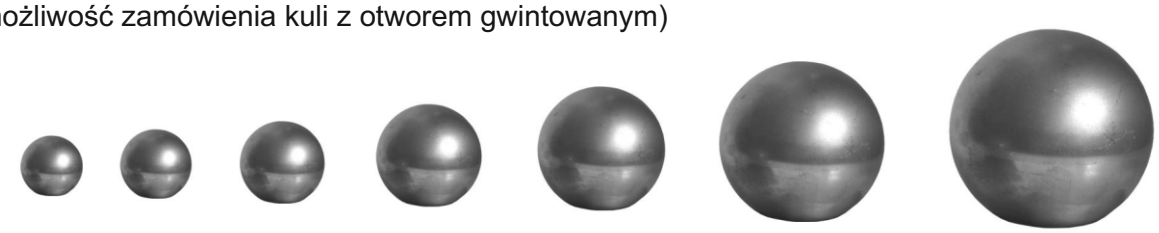
Kule puste z otworem technologicznym:



43.615	43.620	43.625	43.630	43.635	43.640	43.650
ø15 mm	ø20 mm	ø25 mm	ø30 mm	ø35 mm	ø40 mm	ø50 mm

43.660	43.670	43.680	43.690	43.700	43.720	43.750
ø60 mm	ø70 mm	ø80 mm	ø90 mm	ø100 mm	ø120 mm	ø150 mm

Kule puste całkowicie zamknięte:
(możliwość zamówienia kuli z otworem gwintowanym)



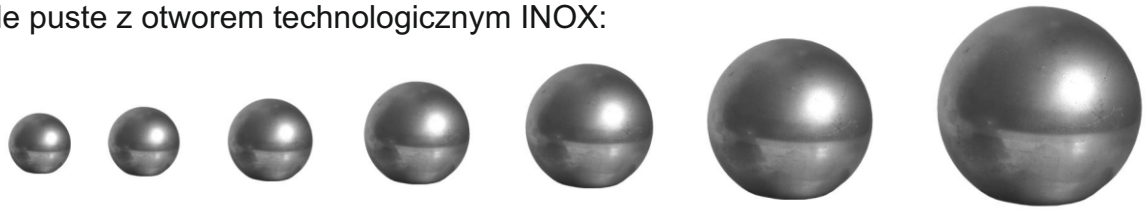
43.640Z	43.650Z	43.660Z	43.670Z	43.680Z
ø40 mm	ø50 mm	ø60 mm	ø70 mm	ø80 mm

43.690Z	43.700Z	43.720Z	43.750Z	43.800Z
ø90 mm	ø100 mm	ø120 mm	ø150 mm	ø200 mm

Półkule puste:

43.504	43.505	43.506	43.507	43.508	43.510	43.512	43.515
ø40 mm	ø50 mm	ø60 mm	ø70 mm	ø80 mm	ø100 mm	ø120 mm	ø150 mm

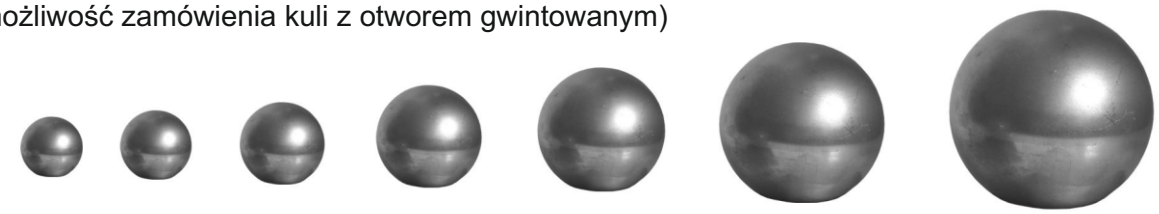
Kule puste z otworem technologicznym INOX:



43.615N	43.620N	43.625N	43.630N	43.635N	43.640N	43.650N
ø15 mm	ø20 mm	ø25 mm	ø30 mm	ø35 mm	ø40 mm	ø50 mm

43.660N	43.670N	43.680N	43.690N	43.700N	43.720N	43.750N
ø60 mm	ø70 mm	ø80 mm	ø90 mm	ø100 mm	ø120 mm	ø150 mm

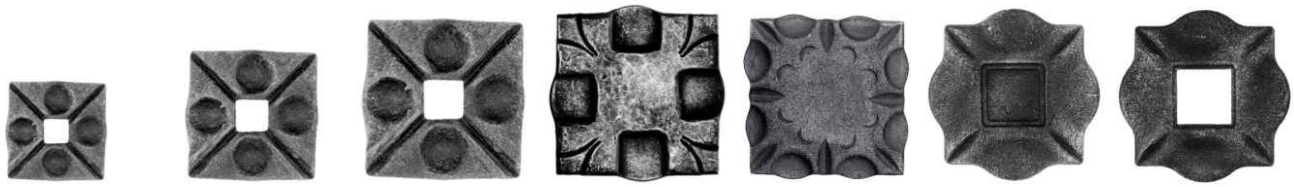
Kule puste całkowicie zamknięte INOX:
(możliwość zamówienia kuli z otworem gwintowanym)



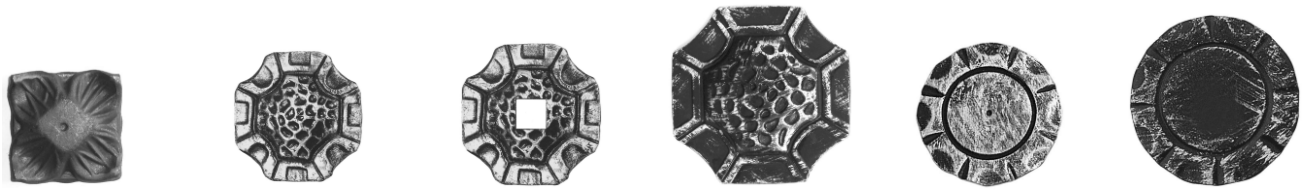
43.640NZ	43.650NZ	43.660NZ	43.670NZ	43.680NZ
ø40 mm	ø50 mm	ø60 mm	ø70 mm	ø80 mm

43.690NZ	43.700NZ	43.720NZ	43.750NZ	43.800NZ
ø90 mm	ø100 mm	ø120 mm	ø150 mm	ø200 mm

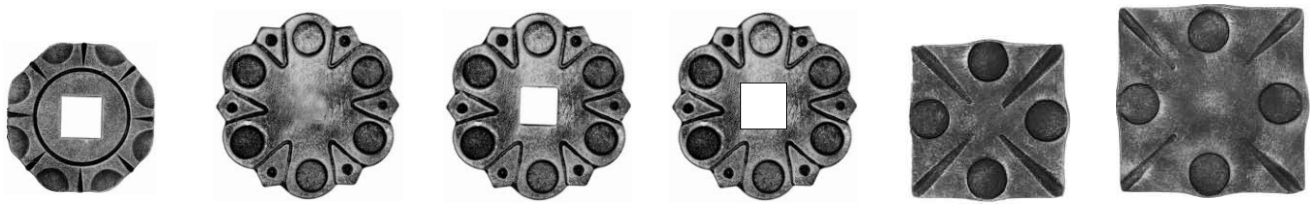
Maskownice:



44.001	44.004	44.006	44.008	44.010	44.011	44.013
☐ 12x12	☐ 21x21	☐ 26x26				☐ 30x30
50x50x6	70x70x8	90x90x8	100x100x8	90x90x5	100x100x10	100x100x10



44.014	44.017	44.018	44.020	44.026	44.029
		☐ 13x13			
60x60x5	65x65x4	65x65x4	100x100x4	ø65x4	ø90x4

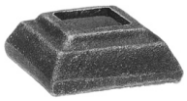
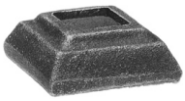
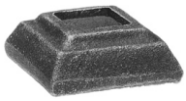


44.031	44.034	44.035	44.036	44.038	44.039
☐ 26x26		☐ 21x21	☐ 26x26		
ø90x4	ø110x4	ø110x4	ø110x4	85x85x8	120x120x8

44.040	44.043	44.046	44.047	44.048	44.049
		☐ 12,5x12,5	☐ 14,5x14,5	☐ 16,5x16,5	☐ 20,5x20,5
60x60x4	80x80x4	H15 50x50x4	H15 50x50x4	H15 50x50x4	H17 80x80x4

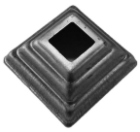
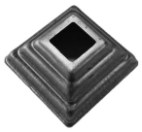
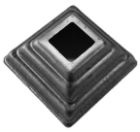
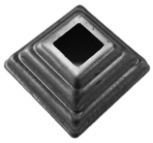
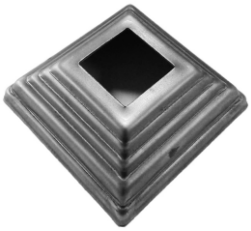
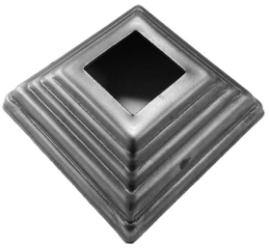
44.050	44.051	44.052	44.053	44.054
☐ 25,5x25,5	☐ 30,5x30,5	☐ 40,5x40,5	☐ 40,5x20,5	☐ 40,5x30,5
H17 80x80x4	H17 80x80x4	H17 80x80x4	H17 80x80x4	H17 80x80x4

44.119	44.121	44.122	44.123
☐ 30,5x30,5	☐ 40,5x40,5	☐ 25,5x25,5	☐ 30,5x30,5
80x80	80x80	60x60	60x60

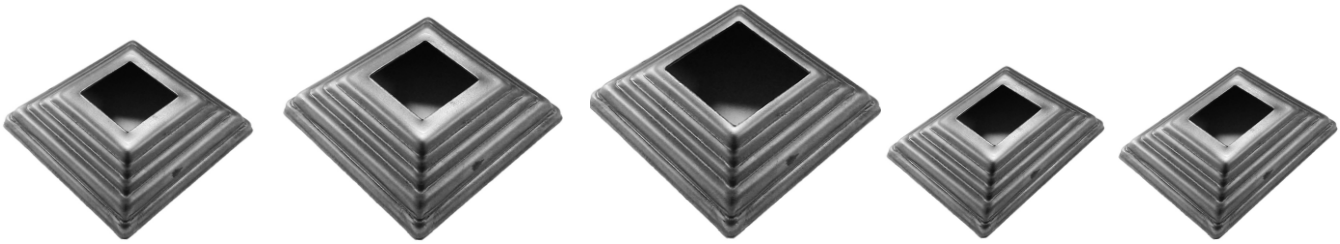




44.126	44.127	44.128	44.129	44.134	44.136	44.137
☐ 20,5x20,5	☐ 12,5x12,5	☐ 14,5x14,5	☐ 16,5x16,5			
50x50	40x40	40x40	40x40	ø60x20	ø40x20	ø30x20

44.140	44.141	44.142	44.143	44.144	44.145
☐ ø25	☐ ø32	☐ ø38	☐ ø42	☐ ø48	☐ ø51
ø80x25x1	ø80x25x1	ø97x30x1	ø97x30x1	ø97x30x1	ø110x30x1

44.146	44.147	44.148	44.149	44.150	44.151	44.152
☐ 12x12	☐ 14x14	☐ 16x16	☐ 20x20	☐ 25x25	☐ 30x30	☐ 40x40
H19 44x44x1	H19 44x44x1	H19 44x44x1	H22 57x57x1	H30 80x80x1	H30 80x80x1	H30 90x90x1



44.153	44.154	44.155	44.156	44.157	44.158	44.159
☐ 50x50 H30	☐ 60x60 H28	☐ 80x80 H28	☐ 100x100 H28	☐ 40x30 H30	☐ 40x60 H30	☐ 40x20 H30
100x100x1	109x109x1	120x120x1	142x142x1	85x75x1	90x110x1	100x100x1

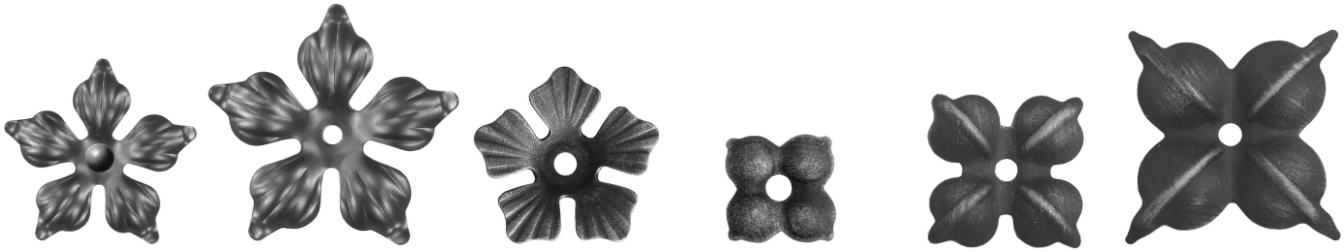
44.200	44.201	44.202	44.203	44.204	44.205	44.206
155x70 mm	120x50 mm	145x60 mm	200x85 mm	250x110 mm	160x105 mm	160x102 mm
gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 5 mm	gr. 6 mm	gr. 3 mm

Kwiaty:

50.000	50.001	50.003	50.004	50.005	50.006
gr. 1,2 mm	gr. 5 mm	gr. 5 mm	gr. 4 mm	gr. 3 mm	gr. 3 mm
ø 40 mm	ø 95 mm	ø 95 mm	ø 62 mm	ø 60 mm	ø 90 mm

50.009	50.010	50.011	50.012	50.014
gr. 2 mm	gr. 1,5 mm	gr. 1,5 mm	gr. 2 mm	gr. 3 mm
ø 60 mm	ø 68 mm	ø 97 mm	ø 120 mm	ø 60 mm

50.015	50.016	50.017	50.018	50.019	50.020
gr. 3 mm	gr. 2 mm	gr. 2 mm	gr. 4 mm	gr. 2 mm	gr. 6 mm
ø 95 mm	ø 62 mm	ø 60 mm	ø 40 mm	ø 140 mm	ø 75 mm



50.021	50.021.01	50.022	50.023	50.024	50.025
gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 1,5 mm	gr. 1,5 mm	gr. 1,5 mm
ø 90 mm	ø 135 mm	ø 85 mm	ø 45 mm	ø 70 mm	ø 115 mm

50.026	50.027	50.028	50.029	50.030	50.031
gr. 3 mm	gr. 3 mm	gr. 3 mm	gr. 1 mm	gr. 1,5 mm	gr. 1,5 mm
ø 65 mm	ø 95 mm	ø 120 mm	ø 46 mm	ø 70 mm	ø 115 mm

50.032	50.033	50.041	50.042	50.043
gr. 1,5 mm	gr. 1,5 mm	gr. 2,5 mm	gr. 4 mm	gr. 4 mm
ø 80 mm	ø 60 mm	ø 120 mm	ø 90 mm	ø 120 mm

50.095	50.096	50.097	50.100	50.101	50.102
gr. 1,5 mm	gr. 1,5 mm	gr. 1,5 mm			
ø 60 mm	ø 45 mm	ø 30 mm	450x160 mm	100x70 mm	240x140 mm

50.103	50.104	50.105	50.109	50.110	50.119
				gr. 1,5 mm	
60x45 mm	240x140 mm	55x30 mm	300x70 mm	50x50 mm	70x80 mm

50.120	50.120.01	50.121	50.124	50.124.01	50.125
190x115 mm	140x125 mm	135x50 mm	140x85 mm	100x90 mm	100x40 mm

50.126	50.130	50.131	50.188	50.189	52.130
					gr. 4 mm
500x420 mm	60x115 mm	45x90 mm	410x165 mm	275x105 mm	ø160 mm

51.235	52.131	52.132	52.133	52.134	52.135
gr. 2 mm	gr. 4 mm	gr. 3 mm	gr. 5 mm	gr. 5 mm	gr. 3 mm
ø 160 mm	ø90 x 60 mm	ø90 mm	ø90 mm	ø115 mm	85x80 mm

52.136	52.137	52.139	53.000	53.001
gr. 3,5 mm	gr. 4 mm	gr. 4 mm	gr. 0,5 mm	gr. 0,5 mm
ø100 mm	92x78 mm	ø55 mm	ø80 mm	ø80 mm

53.002	53.004	53.005	53.006	53.007
gr. 1 mm	gr. 0,5 mm	gr. 0,5 mm	gr. 0,6 mm	gr. 0,6 mm
ø155 mm	ø55 mm	ø65 mm	ø90x70 mm	ø40x42 mm

Liście:

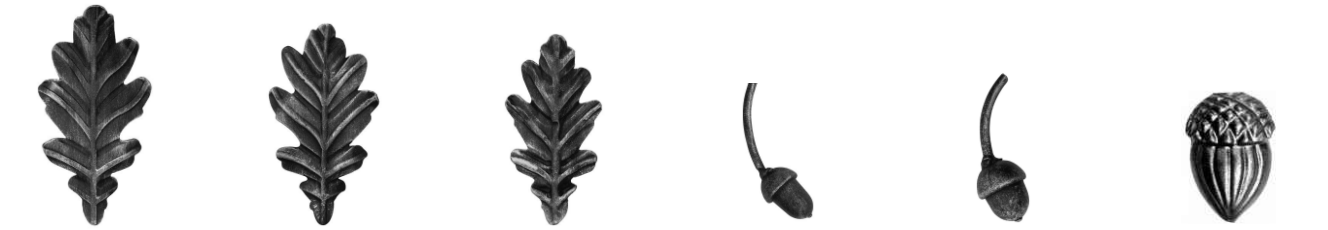
50.106	50.107	50.108	50.111	50.112	50.113
gr. 2 mm	gr. 2 mm	gr. 1 mm	gr. 2 mm	gr. 2 mm	gr. 2,5 mm
70x50 mm	50x40 mm	45x33 mm	70x50 mm	50x40 mm	400x150 mm

50.114	50.115	50.116	50.117	50.118	50.119
gr. 2,5 mm	gr. 2,5 mm	gr. 2,5 mm			
460x170 mm	480x210 mm	490x250 mm	270x40 mm	270x40 mm	70x80 mm

50.122	50.122.01	50.123	50.132	50.133	50.134
gr. 3 mm	gr. 3 mm	gr. 3 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm
85x40 mm	65x30 mm	115x45 mm	145x90 mm	115x70 mm	85x50 mm

50.135	50.136	50.137	50.138	50.140	50.141
gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm		
260 mm	220 mm	195 mm	160 mm	420x220 mm	380x150 mm

50.142	50.143	50.143.01	50.143.02	50.144	50.145	50.146
	gr. 3 mm	gr. 3 mm	gr. 3 mm			
340x140 mm	130x40 mm	115x40 mm	90x30 mm	75x20 mm	75x65 mm	75x75 mm



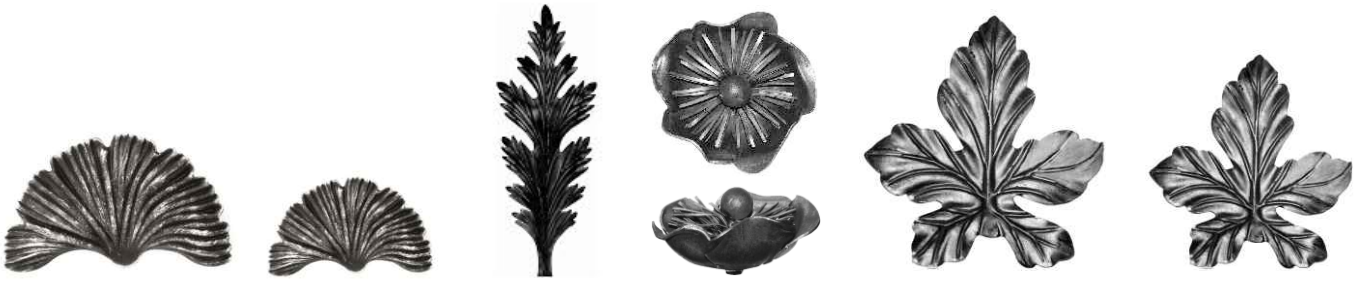
50.150	50.151	50.152	50.153	50.154	50.155
gr. 2 mm	gr. 2 mm	gr. 2 mm			
175x95 mm	145x75 mm	100x55 mm	25x70 mm	20x56 mm	65x45 mm

50.156	50.157	50.158	50.159	50.160	50.161	50.162
gr. 2,5 mm	gr. 2 mm	gr. 2 mm	gr. 1,5 mm	gr. 1,5 mm	gr. 1,5 mm	gr. 1,5 mm
150x150 mm	115x125 mm	85x95 mm	70x70 mm	105x100 mm	75x75 mm	50x50 mm

50.181	50.182	50.183	50.184	50.185	50.186
gr. 2 mm	gr. 2 mm	gr. 2mm	gr. 2,5 mm	gr. 2,5 mm	gr. 2,5 mm
195x130 mm	155x105 mm	115x75 mm	235x230 mm	210x180 mm	140x110 mm

50.187	50.188	50.189	50.190	50.191	50.192
gr. 5 mm			gr. 2 mm	gr. 2 mm	gr. 4 mm
85x45 mm	410x165 mm	275x105 mm	250x45 mm	160x110 mm	225x60 mm

50.193	50.194	50.195	50.196	50.197	50.198	50.199
gr. 4 mm	gr. 4 mm	gr. 3 mm	gr. 3 mm	gr. 3 mm	gr. 2 mm	gr. 2 mm
210x135 mm	210x135 mm	210x75 mm	200x110 mm	200x110 mm	H 500 mm	H 305 mm

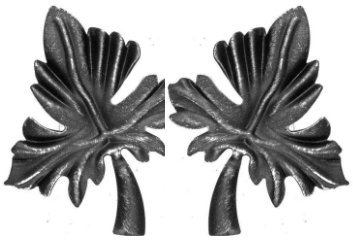


50.200	50.201	50.202	50.204	50.208	50.209
gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm
200x115 mm	145x90 mm	330x130 mm	130x60 mm	205x195 mm	175x166 mm

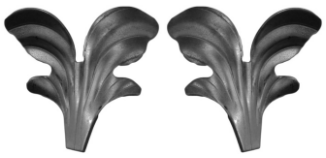
50.210	50.211	50.212	50.213	50.214	50.215
gr. 2 mm	gr. 2,5 mm	gr. 2,5 mm	gr. 2,5 mm		
150x142 mm	120x140 mm	90x105 mm	60x70 mm	340x70 mm	340x55 mm

50.216	50.217	50.218	50.219	50.220
gr. 2 mm	gr. 2 mm	gr. 2mm	gr. 2 mm	gr. 2 mm
190x200 mm	165x155 mm	130x125 mm	100x95 mm	125x35 mm

51.003	51.004	51.015	51.016	51.017	51.018
gr. 2,5 mm	gr. 2,5 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm
100x50 mm	100x50 mm	100x90 mm	100x90 mm	80x60 mm	80x60 mm



51.019	51.020	51.059	51.060	51.061	51.062
gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm
120x100 mm	120x100 mm	190x60 mm	190x60 mm	110x40 mm	110x40 mm



51.063	51.064	51.069	51.070	51.073	51.074
gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm
90x30 mm	90x30 mm	80x60 mm	80x60 mm	55x70 mm	55x70 mm

51.077	51.078	51.079	51.080	51.081	51.082	51.083
gr. 2 mm	gr. 2 mm	gr. 3 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm
110x75 mm	110x75 mm	110x75 mm	108x45 mm	110x47 mm	155x65 mm	100x72 mm

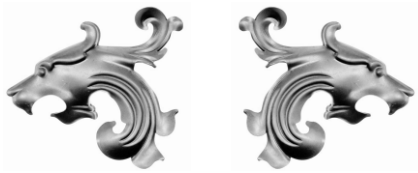
51.097	51.098	51.099	51.101	51.102	51.103	51.104
gr. 2,5 mm	gr. 2,5 mm	gr. 3 mm	gr. 3 mm	gr. 3 mm	gr. 4 mm	gr. 4 mm
160x40 mm	280x50 mm	105x50 mm	135x32 mm	165x60 mm	165x70 mm	300x70 mm

51.105	51.106	51.107	51.108	51.108.01	51.109	51.110
gr. 4 mm	gr. 6 mm	gr. 5 mm	gr. 5 mm	gr. 2 mm	gr. 5 mm	gr. 1,5 mm
275x50 mm	430x110 mm	330x100 mm	330x100 mm	364x100 mm	180x50 mm	150x80 mm

51.111	51.112	51.113	51.114	51.115	51.116
gr. 4 mm	gr. 4 mm	gr. 5 mm	gr. 5 mm	gr. 4 mm	gr. 4 mm
100x80 mm	100x80 mm	160x90 mm	160x90 mm	215x175 mm	215x175 mm

51.117	51.118	51.121	51.122	51.123	51.124
gr. 4 mm	gr. 4 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm
255x155 mm	255x155 mm	200x95 mm	200x95 mm	295x175 mm	295x175 mm

51.125	51.126	51.127	51.128	51.129	51.130
gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm
230x135 mm	230x135 mm	164x130 mm	164x130 mm	240x140 mm	240x140 mm



51.133	51.134	51.140
gr. 2 mm	gr. 2 mm	gr. 2 mm
180x170 mm	180x170 mm	260x75 mm

51.143	51.144	51.145	51.147	51.148	51.149
gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm
255x70 mm	235x85 mm	290x56 mm	240x70 mm	240x60 mm	190x50 mm

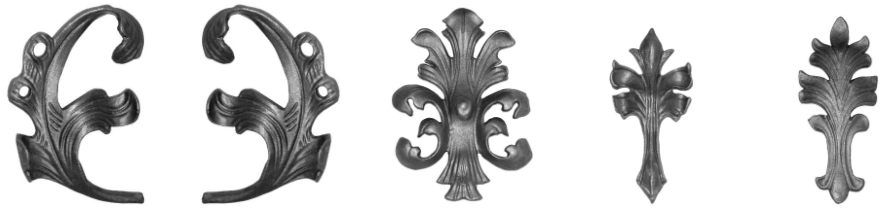
51.151	51.152	51.153	51.154
gr. 2 mm	gr. 2 mm	gr. 2 mm	gr. 2 mm
120x50 mm	120x50 mm	110x95 mm	110x95 mm

52.003	52.004	52.005	52.006
gr. 3 mm	gr. 3 mm	gr. 4 mm	gr. 4 mm
105x95 mm	105x95 mm	270x110 mm	270x110 mm

52.009	52.010	52.011	52.012	52.013	52.014
gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm
140x65 mm	140x65 mm	150x130 mm	150x130 mm	140x110 mm	140x110 mm

52.015	52.016	52.017	52.018	52.019	52.020
gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm
190x160 mm	190x160 mm	155x140 mm	155x140 mm	250x150 mm	250x150 mm

52.021	52.022	52.023	52.024	52.025	52.026
gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm
220x105 mm	220x105 mm	180x85 mm	180x85 mm	165x105 mm	165x105 mm



52.027	52.028	52.029	52.030	52.032
gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm
200x125 mm	200x125 mm	215x140 mm	170x75 mm	185x80 mm

52.034	52.035	52.036	52.037	52.038	52.043	52.044
gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm
235x105 mm	225x130 mm	225x130 mm	155x55 mm	155x55 mm	115x55 mm	190x60 mm

52.045	52.047	52.048	52.049	52.050	52.140
gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm	gr. 4 mm
175x50 mm	135x75 mm	160x45 mm	240x150 mm	240x150 mm	106x78 mm

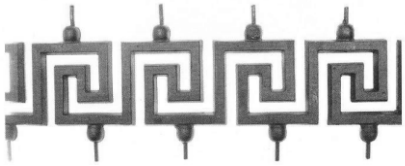
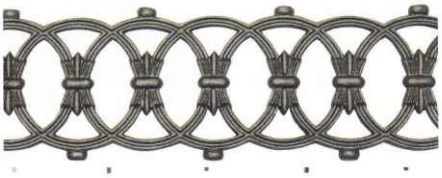
52.201	52.202	52.203	52.211	52.212	52.216	52.217
gr. 3 mm	gr. 4 mm	gr. 4 mm			gr. 5 mm	gr. 5 mm
125x75 mm	155x110 mm	122x80 mm	170x100 mm	200x140 mm	180x28 mm	160x43 mm

50.165	50.166	53.008	53.009	53.010	53.011	53.012
		gr. 0,5 mm	gr. 0,5 mm	gr. 0,5 mm	gr. 0,8 mm	gr. 1 mm
160x60 mm	120x60 mm	85x45 mm	70x35 mm	195x80 mm	55x50 mm	105x95 mm

Żeliwa:

55.001	55.003	55.005	55.006	55.007
☐ 14x14 mm	☐ 14x14 mm	☐ 14x14 mm	☐ 14x14 mm	☐ 14x14 mm
380x190 mm	400x190 mm	455x200 mm	165x138 mm	280x130 mm

55.008	55.009
☐ 14x14 mm	☐ 14x14 mm
315x220 mm	280x195 mm

55.030	55.031	55.050	55.100
			ø 100 mm
500x100 mm	870x150 mm	ø 120 mm	210x110 mm

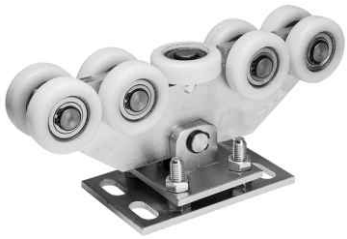
55.101	55.102	55.103	55.104	55.105	55.200
☐ 40x40 mm	☐ 50x50 mm	☐ 60x60 mm	☐ 80x80 mm	☐ 100x100 mm	
87 mm	110 mm	135 mm	165 mm	180 mm	250x160 mm

Wózki do bram przesuwnych:

60.003.80KP	60.003.70KP
Zestaw wózków do szyny 80x80	Zestaw wózków do szyny 70x70
2x 60.003	2x 60.003.70
1x 60.011.80	1x 60.011.70
1x 60.020	1x 60.020
1x 60.043	1x 60.043

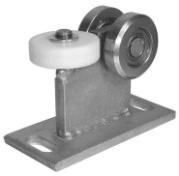
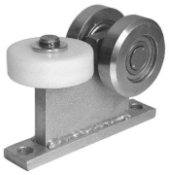
60.001	60.002	60.002.01	60.002.70	60.002.70.01
☐ 80x80 mm	☐ 80x80 mm	☐ 80x80 mm	☐ 70x70 mm	☐ 70x70 mm
rolki stal	rolki stal	rolki tworzywo	rolki stal	rolki tworzywo

60.003	60.003.01	60.003.70	60.003.70.01	60.004
☐ 80x80 mm	☐ 80x80 mm	☐ 70x70 mm	☐ 70x70 mm	☐ 80x80 mm
rolki stal	rolki tworzywo	rolki stal	rolki stal	rolki stal



60.007	60.007.01
☐ 80x80 mm	☐ 80x80 mm
rolki stal	rolki tworzywo

60.681.8V	60.891.8V	60.401.8V
rolki ø 55 mm	rolki ø 68 mm	rolki ø 117 mm

60.005	60.006	60.054.01	60.054	60.010	60.011.60
☐ 80x80 mm	☐ 80x80 mm	do szyny	do szyny	do szyny	do szyny
		60x60x3 mm	60x60x4 mm	70 i 80 mm	60x60 mm

Akcesoria do bram przesuwnych

60.011.70	60.011.80	60.012.60	60.012.70	60.012.80	60.019
do szyny	do szyny	do szyny	do szyny	do szyny	do szyny
70x70 mm	80x80 mm	60x60 mm	70x70 mm	80x80 mm	70 i 80 mm

60.020	60.021	60.022	60.023	60.024	60.025
do szyny	do szyny	rozstaw	rozstaw	rozstaw	rozstaw reg.
70 i 80 mm	70 i 80 mm	40 mm	60 mm	80 mm	55-90 mm

60.030.01	60.031	60.032	60.033	60.036
prowadzenie	L 310 mm	L 160 mm	L 270 mm	uchwyt
reg. 140-170	reg. 0-195	reg. 35,5-80,5	reg. 15-65 mm	95x30

60.038	60.039	60.043	60.049
80x100 mm	100x100 mm	łożyskowana	
H 96 mm	H 142 mm	ø 35 mm	ø 43 mm

Symbol	Średnica	Śruba
60.040	ø 25 mm	M 12
60.040.01	ø 30 mm	M 12
60.040.02	ø 32 mm	M 12
60.040.03	ø 35 mm	M 12
60.040.05	ø 40 mm	M 16

60.055	60.055.01
L 3x333 mm	L 3x333 mm
gr. 18 mm	gr. 20 mm

Listwy zębate:

Do 300kg

Do 700kg

60.056	60.056.01
L 1000 mm	L 1000 mm
gr. 18 mm	gr. 20 mm

Z zamkiem

60.050	60.051	60.051.01
L 1000 mm	L 1000 mm	L 1000 mm
gr. 10 mm	gr. 8 mm	gr. 10 mm

Rolki jezdne:

60.100	60.101	60.102	60.103	60.103.01	60.104
		d ø 16 mm	d ø 16 mm	d ø 25 mm	rowek 6,4 mm
ø 68 x 20 mm	ø 88 x 20 mm	ø 68 x 20 mm	ø 88 x 20 mm	ø 88 x 30 mm	ø 68 x 20 mm

60.105	60.106	60.107
rowek 7,7 mm		
ø 88 x 20 mm	ø 68 x 20 mm	ø 88 x 20 mm

Symbol	Średnica	Gr. rolki	d rowka
60.108	ø 75 mm	26 mm	ø ½”
60.108.02	ø 68 mm	20 mm	ø 16
60.109	ø 90 mm	26 mm	ø ½”
60.109.01	ø 88 mm	30 mm	ø ¾”
60.109.02	ø 88 mm	20 mm	ø 16

60.110	60.111	60.100.02	60.101.02	60.102.02	60.104.02
rowek 5,5 mm	rowek 8,3 mm				rowek 6,4 mm
ø 68 x 20 mm	ø 88 x 20 mm	ø 68 x 20 mm	ø 88 x 20 mm	ø 68 x 35 mm	ø 68 x 20 mm

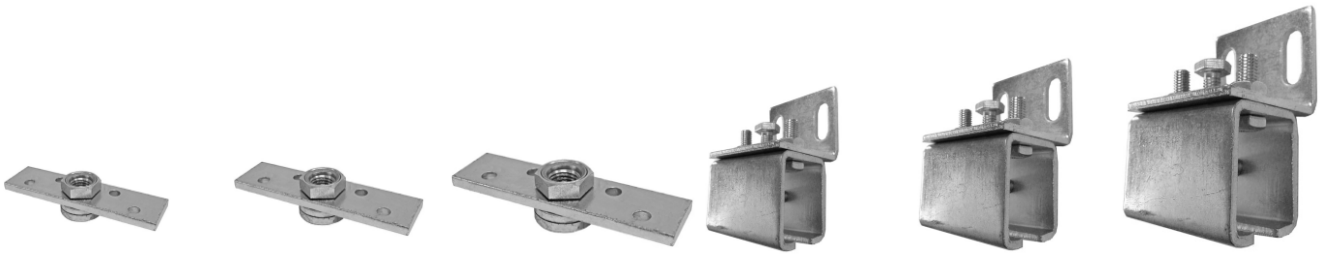
60.105.02	60.100.03	60.101.03	60.102.03	60.104.03	60.105.03
rowek 7,7 mm			d ø 16,5 mm	rowek 6,4 mm	rowek 7,7 mm
ø 88 x 20 mm	ø 68 x 20 mm	ø 88 x 20 mm	ø 68 x 20 mm	ø 68 x 20 mm	ø 88 x 20 mm

60.122.80	SJU-3000	RJ38U-100 OP	SJV-3000	RJ38V-100 OP
rowek 6,8 mm	do rolek d 16,5	Do szyny SJU	do rolek V	Do szyny SJV
ø 78 x 20 mm	L 3000x16x55	ø 100 x 22 mm	L 3000x14,5x60	ø 100 x 20 mm

System do bram przesuwnych podwieszanych:

Symbol	Wymiary	Max.waga bramy
SPZN 33x34	33x34x2 L 3000 ocynk	90 kg
SPFE 33x34	33x34x2 L 3000 surowa stal	90 kg
SPZN 42x54	42x54x2,5 L 3000 ocynk	400 kg
SPFE 42x54	42x54x2,5 L 3000 surowa stal	400 kg
SPZN 57x67	57x67x3,5 L 3000 ocynk	700 kg

W2 33x34	W2 42x54	W2 57x67	W4 33x34	W4 42x54	W4 57x67
33x34 mm	42x54 mm	57x67 mm	33x34 mm	42x54 mm	57x67 mm
60 kg / 2 wózki	200 kg / 2 wózki	350 kg / 2 wózki	90 kg / 2 wózki	400 kg / 2 wózki	700 kg / 2 wózki



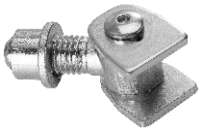
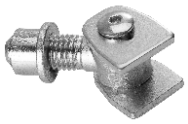
UW M8	UW M12	UW M20	USB 33x34	USB 42x54	USB 57x67
33x34 mm	42x54 mm	57x67 mm	33x34 mm	42x54 mm	57x67 mm
M8	M12	M20			

USS 33x34	USS 42x54	USS 57x67	60.251	60.252	60.255
33x34 mm	42x54 mm	57x67 mm	D ø 25 mm	D ø 25 mm	D ø 25 mm
			H 147 M12	H 147 M12	110x40x5 mm

ŁSZ 33x34	ŁSZ 42x54	ŁSZ 57x67	SSZ 33X34 42X54	SSZ 57x67
33x34 mm	42x54 mm	57x67 mm	33x34 42x54	57x67 mm
			uniwersalny	

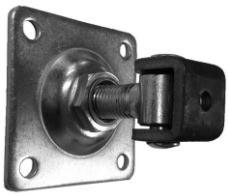
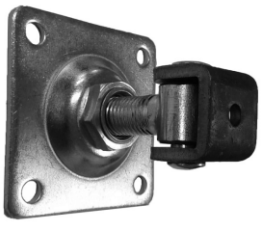
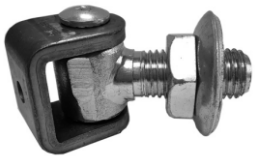
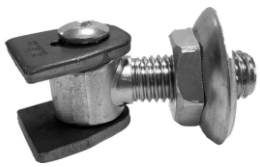
Zawiasy:

61.001	61.001.18	61.002	61.003	61.004
M16	M18	M20	M18	M20
			L 130/180	L 130/180

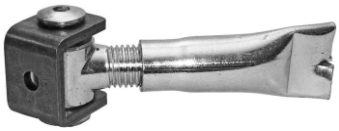



61.005	61.006	61.007	61.008	61.010	61.010.16
M16	M20	M16	M20	M18	M16
L 112/200	L 117/200	155x75 mm	160x102 mm		

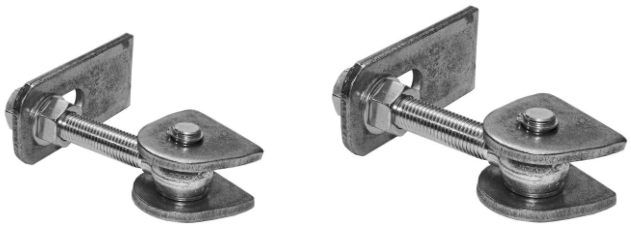
61.011	61.012	61.013	61.016	61.017
M22	M16	M20	M16	M20
			80x80 mm	100x100

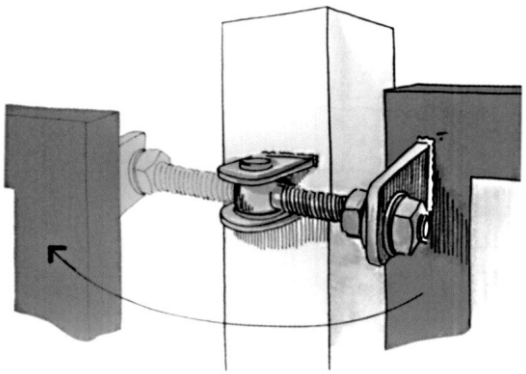





61.018	61.019	61.021.18	61.021.20	61.023.16	61.023.18
M16	M20	M18	M20	M16	M18
80x80 mm	100x100 mm				



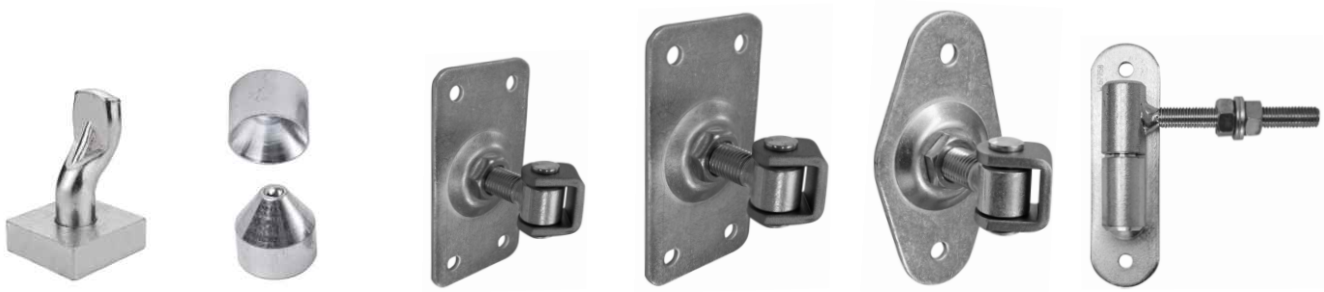
61.027	61.028	61.029	61.030	61.040	61.041
M20	M24	M18	M22	M20	M24



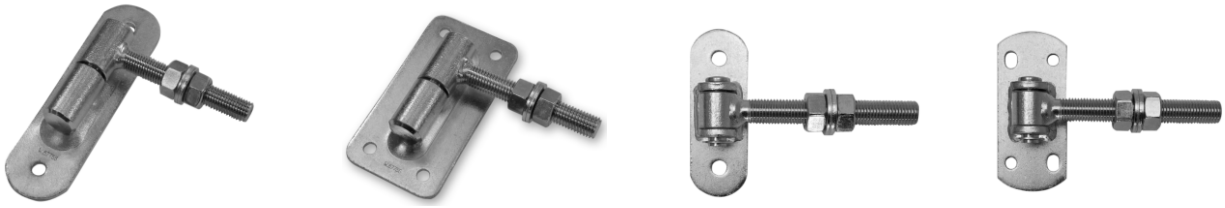


61.051	61.052	61.054
M16	M20	M24
180°	180°	180°

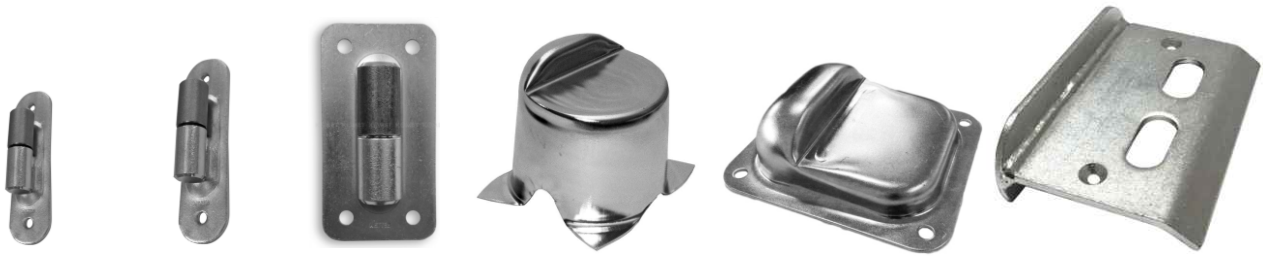
61.053	61.054	61.055	61.056	61.057	61.058
M20	M24	M20	M24	ø 28,5	ø 33,5
ø 30	ø 35	ø 30	ø 35	H 55/35x35	H 60/40x40



61.059	61.060	61.061	61.062	61.063	61.064
ø 20	ø 40	M16	M20	M20	M12 / ø24
H89/60x60x15	H53	120x75 mm	160x80 mm	160x85 mm	150x40 L105



61.065	61.066	61.067	61.068
M16 / ø27	M18 / ø30	M16	M16
180x50 L115	160x85 L130	115x40 L130	115x50 L130



61.069	61.070	61.071	61.090	61.091	61.092
ø24	ø27	ø30	ø90 mm	157x137 mm	150x100 mm
150x40 mm	180x50 mm	150x85 mm	H 90 mm	H 50 mm	H 40 mm

Zawiasy toczone:

61.100	61.101	61.102	61.103	61.104	61.105	61.106	61.107
ø 20	ø 29	ø 20	ø 24	ø 30	ø 30	ø 27	ø 35
H 100 mm	H 130 mm	H 100 mm	H 122 mm	H 146 mm	H 230 mm	H 145 mm	H 190 mm

Symbol	Średnica	Wysokość
61.112	ø 12 mm	60 mm
61.116	ø 16 mm	66 mm
61.120	ø 20 mm	70 mm
61.124	ø 24 mm	80 mm
61.127	ø 27 mm	90 mm
61.130	ø 30 mm	100 mm
61.135	ø 35 mm	120 mm
61.140	ø 40 mm	120 mm

Z kulką

Symbol	Średnica	Wysokość
61.120.01	ø 20 mm	80 mm
61.125.01	ø 25 mm	100 mm
61.127.01	ø 27 mm	90 mm
61.130.01	ø 30 mm	100 mm
61.135.01	ø 35 mm	120 mm
61.140.01	ø 40 mm	120 mm

Zawiasy ramieniowe:

61.202	61.211	61.212	61.221	61.222
d ø 16	d ø 16	d ø 16	d ø 16	d ø 14
210x90 mm	400x50 mm	400x50 mm	400x650 mm	250x290 mm

d - średnica czopa

61.223	61.224	61.231	61.232
d ø 16	d ø 14	d ø 16	d ø 20
400x650 mm	250x288 mm	230x35mm	280x50 mm

Symbol	Wymiary	d
61.251	400x35	ø 14 mm
61.252	600x35	ø 14 mm
61.253	800x40	ø 18 mm
61.254	1000x50	ø 18 mm
61.255	1150x60	ø 20 mm

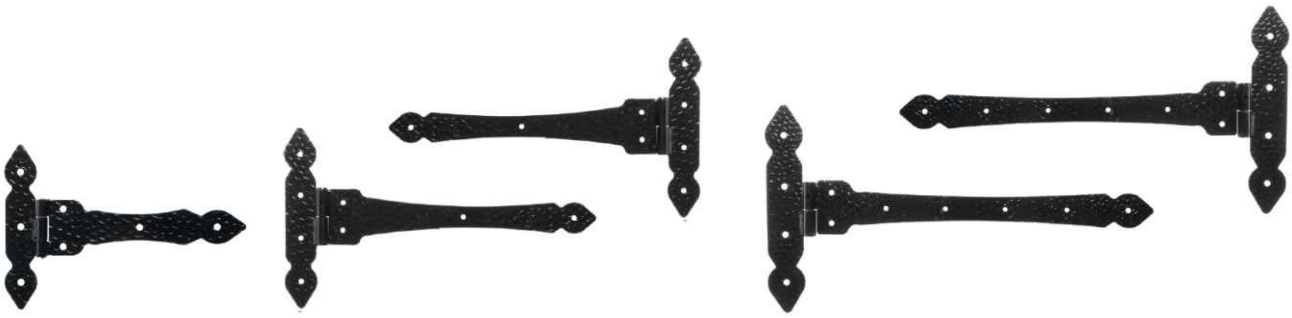
d - średnica czopa

61.256	61.257	61.261	61.262	61.263	61.264
d ø 14	d ø 18	d ø 14	d ø 18	d ø 18	d ø 20
L500x35 mm	L700x50 mm	H150x35mm	H200x40mm	H220x50mm	H220x60mm

61.265	61.267	61.271	61.272	61.273	61.274
d ø 14	d ø 18	d ø 14	d ø 18	d ø 18	d ø 20
H150x35 mm	H220x50 mm	L150x35mm	L200x40mm	L220x50mm	L270x60mm

61.300	61.301	61.302	61.303
gr. 3 mm	gr. 3 mm	gr. 3 mm	gr. 3 mm
150x150 mm	200x200 mm	185x160 mm	250x210 mm

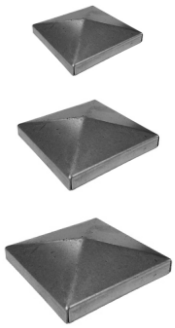
61.304	61.305	61.306	61.307	61.308
gr. 3 mm	gr. 3 mm	gr. 3 mm	gr. 3 mm	gr. 3 mm
203x100 mm	283x179 mm	283x179 mm	525x225 mm	525x225 mm



61.314	61.315	61.316	61.317	61.318
gr. 3 mm	gr. 3 mm	gr. 3 mm	gr. 3 mm	gr. 3 mm
215x148 mm	352x208 mm	352x208 mm	500x270 mm	500x270 mm

Daszki:

Daszki z niskim rantem



Symbol	Grubość	Wymiar
62.004	1 mm	40x40
62.005	1 mm	50x50
62.006	1 mm	60x60
62.008	1 mm	80x80
62.010	1 mm	100x100
62.012	1 mm	120x120
62.015	1 mm	150x150
62.020	1 mm	200x200

Daszki z wysokim rantem

Symbol	Grubość	Wymiar
62.002.01	1 mm	20x20
62.003.01	1 mm	30x30
62.004.01	1 mm	40x40
62.005.01	1 mm	50x50
62.006.01	1 mm	60x60
62.007.01	1 mm	70x70
62.008.01	1 mm	80x80
62.009.01	1 mm	90x90
62.010.01	1 mm	100x100
62.012.01	1 mm	120x120
62.016.01	1 mm	160x160

(możliwość zamówienia daszków z blachy nierdzewnej lub miedzianej)

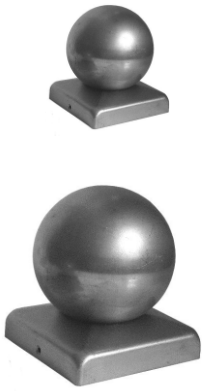
Daszki z wysokim rantem ocynkowane/galvanized

Symbol	Grubość	Wymiar
62.002.01.ZN	1 mm	20x20
62.004.01.ZN	1 mm	40x40
62.005.01.ZN	1 mm	50x50
62.006.01.ZN	1 mm	60x60
62.007.01.ZN	1 mm	70x70
62.008.01.ZN	1 mm	80x80
62.010.01.ZN	1 mm	100x100
62.012.01.ZN	1 mm	120x120

Daszki z przetłoczeniem

Symbol	Grubość	Wymiar
62.184	1 mm	40x40
62.185	1 mm	50x50
62.186	1 mm	60x60
62.187	1 mm	70x70
62.188	1 mm	80x80
62.189	1 mm	90x90
62.190	1 mm	100x100
62.192	1 mm	120x120

Daszki kwadratowe z kulą



Symbol	Grubość	Wymiar
62.002.03	1 mm	20x20 k.20
62.003.03	1 mm	30x30 k.30
62.004.04	1 mm	40x40 k.40
62.005.05	1 mm	50x50 k.50
62.006.06	1 mm	60x60 k.60
62.007.07	1 mm	70x70 k.70
62.008.06	1 mm	80x80 k.60
62.008.08	1 mm	80x80 k.80
62.009.09	1 mm	90x90 k.90
62.010.06	1 mm	100x100 k.60
62.010.08	1 mm	100x100 k.80
62.010.10	1 mm	100x100 k.100
62.012.08	1 mm	120x120 k.80
62.012.10	1 mm	120x120 k.100
62.012.12	1 mm	120x120 k.120

Daszki z kulą ocynkowane/galvanized

Symbol	Grubość	Wymiar
62.004.04ZN	1 mm	40x40 k.40
62.005.05ZN	1 mm	50x50 k.50
62.006.06ZN	1 mm	60x60 k.60
62.007.07ZN	1 mm	70x70 k.70
62.008.06ZN	1 mm	80x80 k.60
62.008.08ZN	1 mm	80x80 k.80
62.010.08ZN	1 mm	100x100 k.80
62.010.10ZN	1 mm	100x100 k.100
62.012.10ZN	1 mm	120x120 k.100
62.012.12ZN	1 mm	120x120 k.120

Daszki kwadratowe „piramida”

Symbol	Grubość	Wymiar
62.106	1,2 mm	60x60
62.108	1,5 mm	80x80
62.110	1,5 mm	100x100
62.112	1,5 mm	120x120
62.115	2 mm	150x150

Daszki okrągłe

Symbol	Grubość	Wymiar
62.031	1 mm	ø 42
62.032	1 mm	ø 48
62.033	1 mm	ø 60
62.034	1 mm	ø 77
62.035	1 mm	ø 90
62.036	1 mm	ø 100

Daszki okrągłe z wysokim rantem

Symbol	Grubość	Wymiar
62.042	1 mm	ø 42
62.048	1 mm	ø 48
62.060	1 mm	ø 60
62.072	1 mm	ø 72
62.077	1 mm	ø 77
62.080	1 mm	ø 80
62.090	1 mm	ø 90
62.100	1 mm	ø 100

Daszki okrągłe z kulą

Symbol	Grubość	Wymiar
62.042.06	1 mm	ø 42 k.60
62.048.06	1 mm	ø 48 k.60
62.060.06	1 mm	ø 60 k.60
62.060.08	1 mm	ø 60 k.80
62.072.08	1 mm	ø 72 k.80
62.077.06	1 mm	ø 77 k.60
62.077.08	1 mm	ø 77 k.80
62.080.06	1 mm	ø 80 k.60
62.080.08	1 mm	ø 80 k.80
62.090.09	1 mm	ø 90 k.90
62.100.08	1 mm	ø 100 k.80
62.100.10	1 mm	ø 100 k.100

Daszki prostokątne

Symbol	Grubość	Wymiar
62.123	1 mm	20x30
62.124	1 mm	20x40
62.134	1 mm	30x40
62.135	1 mm	30x50
62.136	1 mm	30x60
62.146	1 mm	40x60
62.148	1 mm	40x80
62.151	1 mm	50x100

Zaślepki plastikowe:

Zaślepki kwadratowe płaskie

Symbol	Wymiar
62.200	15x15
62.201	16x16
62.202	20x20
62.203	25x25
62.204	30x30
62.206	35x35
62.207	40x40
62.208	45x45
62.209	50x50
62.210	60x60
62.211	70x70
62.212	80x80
62.213	100x100
62.214	120x120

Zaślepki prostokątne płaskie

Symbol	Wymiar
62.221	15x25
62.222	18x30
62.223	20x30
62.224	20x40
62.226	25x40
62.227	27x40
62.228	30x50
62.229	30x60
62.230	40x60
62.231	40x80
62.232	40x100
62.234	50x100
62.235	60x80
62.236	60x100
62.237	60x120

Zaślepki kwadratowe kopertowe

Symbol	Wymiar
62.502	20x20
62.504	40x40
62.505	50x50
62.506	60x60
62.507	70x70
62.508	80x80
62.510	100x100

Maskownice śrub

Symbol	Klucz	Wymiar
62.406	10	M6
62.408	13	M8
62.410	17	M10
62.412	19	M12
62.414	21	M14
62.416	24	M16

Zaślepki okrągłe

Symbol	Wymiar
62.240	ø 16
62.241	ø 18
62.242	ø 20
62.243	ø 25
62.244	ø 30
62.245	ø 32
62.246	ø 35
62.247	ø 40
62.248	ø 43
62.249	ø 50
62.250	ø 60
62.251	ø 70
62.252	ø 76

Zaślepki okrągłe calowe

Symbol	Wymiar
62.257	ø 21,3 1/2"
62.258	ø 26,9 3/4"
62.259	ø 33,7 1"
62.260	ø 42,4 1 1/4"
62.261	ø 48,3 1 1/2"
62.262	ø 60,3 2"
62.263	ø 76,1 2 1/2"

Klamki:

63.001	63.003	63.005
ocynk	ocynk	ocynk
135x75	155x95	160x85

63.006	63.007	63.012	63.013
	ocynk		
140x95	135x90	130x80	145x85

63.021	63.022	63.023
ocynk	ocynk	ocynk
120x80	130x65	142x85

63.029	63.030	63.031	63.032
ocynk	ocynk		
155x80	155x90	150x80	165x80

63.034	63.037	63.038	63.039
ocynk	malowana	ocynk	ocynk
145x80	168x90	155x85	150x85

63.035	63.036	63.002	63.008
malowana	malowana	malowana	
125x55	125x55	ø65	ø70

63.009	63.010	63.011	63.015	63.016
ø70	ø65	ø70	70x105	110x105

63.017	63.018	63.027	63.028	63.020
ø60	ø65	ø68	ø68	55x65 ø120

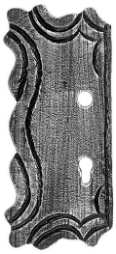
Szyldy:

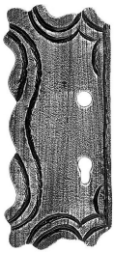
63.040	63.041	63.044	63.045	63.046	63.047
ø 65 mm	ø 65 mm	ø 50 mm	ø 50 mm	102x36 mm	102x36 mm
Gr. 2 mm	Gr. 2 mm	Gr. 4 mm	Gr. 4 mm	Gr. 3 mm	Gr. 3 mm

90

72

63.101	63.102	63.103	63.102.02	63.103.02
275 x 130 mm	275 x 130 mm	275 x 130 mm	275 x 130 mm	275 x 130 mm
Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm

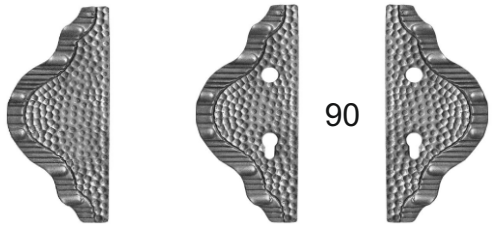

90


72

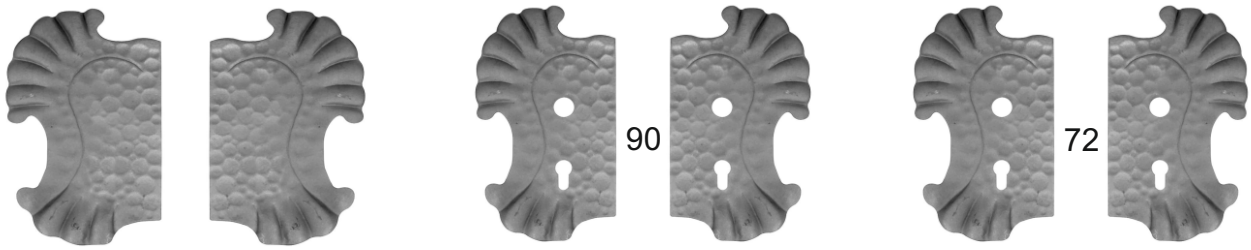
63.108	63.109	63.110	63.109.02	63.110.02
305 x 135 mm	305 x 135 mm	305 x 135 mm	305 x 135 mm	305 x 135 mm
Gr. 4 mm	Gr. 4 mm	Gr. 4 mm	Gr. 4 mm	Gr. 4 mm

90

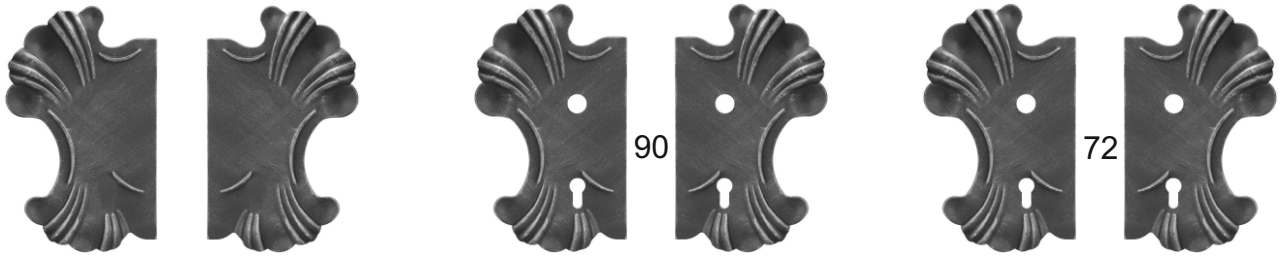
63.111	63.112	63.113
295 x 90 mm	295 x 90 mm	295 x 90 mm
Gr. 4 mm	Gr. 4 mm	Gr. 4 mm



63.114	63.115	63.116
295 x 120 mm	295 x 120 mm	295 x 120 mm
Gr. 3 mm	Gr. 3 mm	Gr. 3 mm

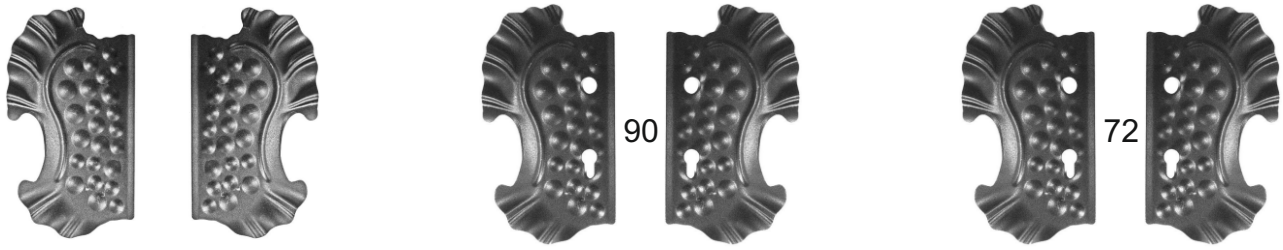


63.117	63.118	63.119	63.120	63.119.02	63.120.02
275 x 160 mm	275 x 160 mm	275 x 160 mm	275 x 160 mm	275 x 160 mm	275 x 160 mm
Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm



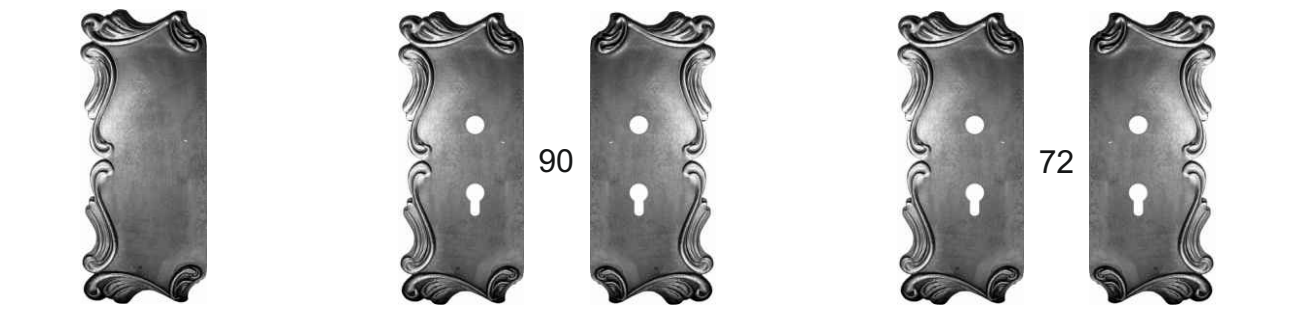
63.125	63.126	63.127	63.128	63.127.02	63.128.02
270 x 165 mm	270 x 165 mm	270 x 165 mm	270 x 165 mm	270 x 165 mm	270 x 165 mm
Gr. 2 mm	Gr. 2 mm	Gr. 2 mm	Gr. 2 mm	Gr. 2 mm	Gr. 2 mm

63.129	63.130	63.131	63.130.01	63.131.01	63.130.02	63.131.02
280 x 100 mm	280 x 100 mm	280 x 100 mm	280 x 100 mm	280 x 100 mm	280 x 100 mm	280 x 100 mm
Gr. 2 mm	Gr. 2 mm	Gr. 2 mm	Gr. 2 mm	Gr. 2 mm	Gr. 2 mm	Gr. 2 mm

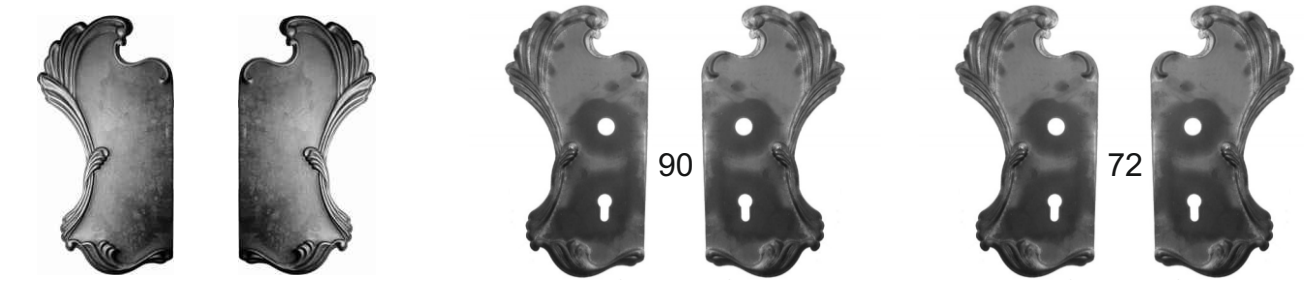


63.134	63.135	63.136	63.137	63.136.02	63.137.02
290 x 160 mm	290 x 160 mm	290 x 160 mm	290 x 160 mm	290 x 160 mm	290 x 160 mm
Gr. 2 mm	Gr. 2 mm	Gr. 2 mm	Gr. 2 mm	Gr. 2 mm	Gr. 2 mm

63.138	63.138.01	63.139	63.139.01	63.140	63.140.01	63.141
260 x 57 mm	260 x 57 mm	260 x 52 mm	260 x 52 mm	260 x 46 mm	260 x 46 mm	260 x 56 mm
Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm

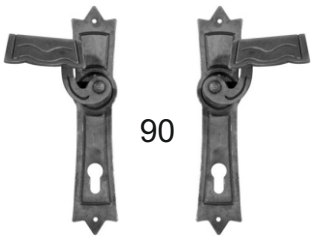


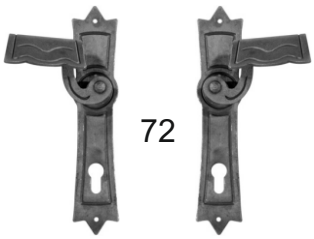
63.146	63.147	63.148	63.149	63.150
315 x 135 mm	315 x 135 mm	315 x 135 mm	315 x 135 mm	315 x 135 mm
Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm



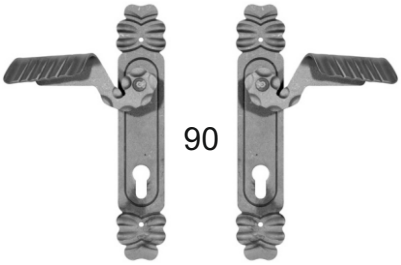
63.151	63.152	63.153	63.154	63.153.02	63.154.02
330 x 175 mm	330 x 175 mm	330 x 175 mm	330 x 175 mm	330 x 175 mm	330 x 175 mm
Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm

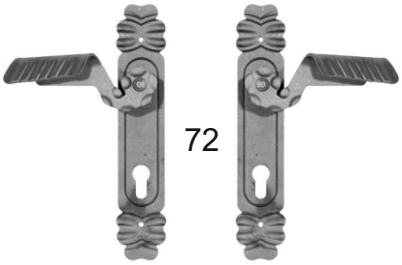
63.191	63.192	63.191.01	63.192.01
260 x 57 mm	260 x 57 mm	260 x 57 mm	260 x 57 mm
Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm



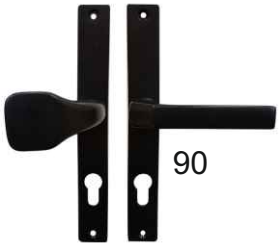


63.193	63.194	63.193.01	63.194.01
260 x 52 mm	260 x 52 mm	260 x 52 mm	260 x 52 mm
Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm



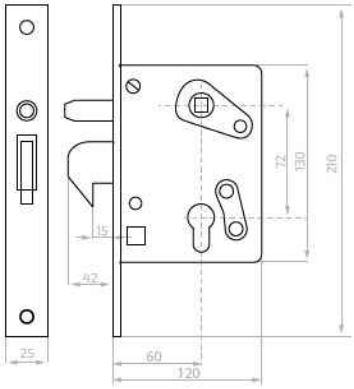


63.195	63.196	63.195.01	63.196.01	63.180
260 x 46 mm	260 x 46 mm	260 x 46 mm	260 x 46 mm	240 x 30 mm
Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	Gr. 3 mm	72 mm



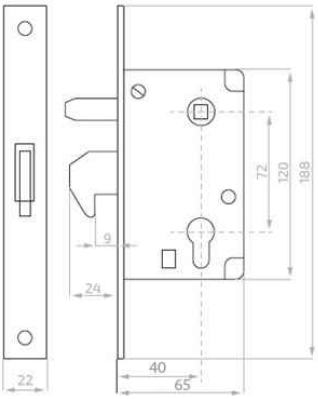
63.180.01	63.181	63.181.01	63.182
240 x 30 mm	240 x 30 mm	240 x 30 mm	240 x 30 mm
90 mm	72 mm	90 mm	

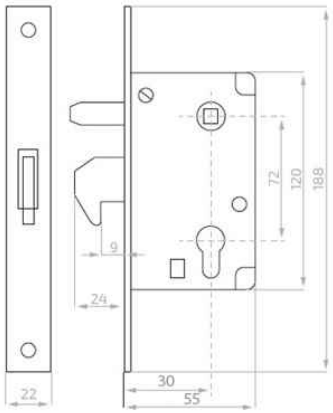
Zamki, kasety:



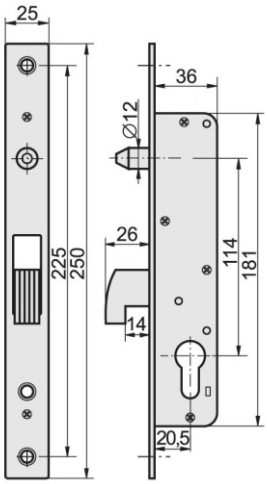
Do zamka 63.200

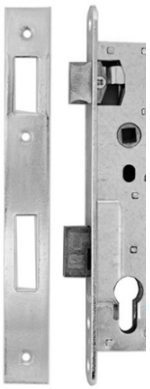
63.200	63.202
210x100 mm	155x80 mm
72mm	gr. 20 mm

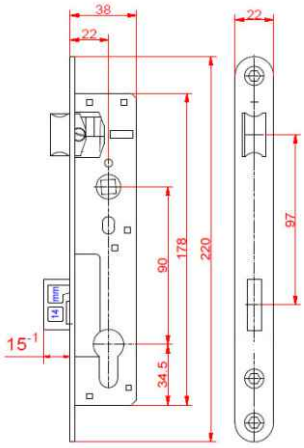




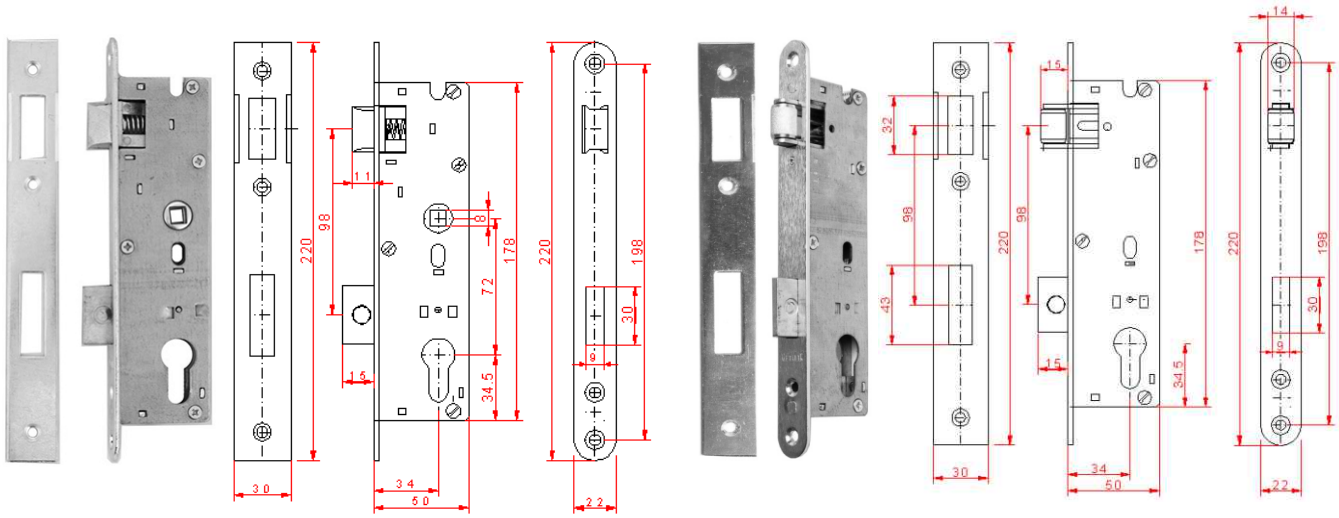
63.204	63.205
188x65 mm	188x55 mm
72mm	72mm







63.209.01	63.210
220x25 mm	220x38 mm
	22/90mm



63.211	63.212
220x50 mm	220x50 mm
72mm	

63.213	63.214	63.215
118x50 mm	118x50 mm	102x40 mm

63.216	63.217	63.218	63.219
220x77 mm	155x80 mm	220x77 mm	155x80 mm
72mm	72mm	90mm	90mm

63.220	63.220.11	63.220.11X	63.220.12	63.221	63.221.13
H245 / 50x30	H245 / 50x30	H245 / 50x30	H245 / 50x30	H165 / 50x30	H165 / 50x30
72 mm	72 mm	72 mm			

63.221.14	63.222	63.222.11	63.222.11X	63.222.12	63.223
H165 / 50x30	H245 / 60x40	H245 / 60x40	H245 / 60x40	H245 / 60x40	H165 / 60x40
	72 mm	72 mm	72 mm		

63.223.13	63.223.14	63.224	63.222.60	63.227.09	63.228
H165 / 60x40	H165 / 60x40	H260 / 80x40	H200 / 60x40	H258 / 40x40	H246 / 40x40
		90/50 mm	72 mm		90/22

L= 1,5m

Profil 40x40 z zamkiem

L= 1,5m

Profil 60x40 z zamkiem

090 BPF40	092 BPF60
L1500 40x40	L1500 60x40
90/22	72/34

Zamki, kasety (komplety):

63.220.35	63.220.36	63.220.KK	63.220.KP	63.220.PP
H245 / 50x30	H245 / 50x30	H245 / 50x30	H245 / 50x30	H245 / 50x30
72 mm	72 mm	72 mm	72 mm	72 mm

63.222.35	63.222.36	63.222.KK	63.222.KP	63.222.PP
H245 / 60x40	H245 / 60x40	H245 / 60x40	H245 / 60x40	H245 / 60x40
72 mm	72 mm	72 mm	72 mm	72 mm

Zatrzaski (opory) furtki:

63.225	63.226	63.226.01	63.229.01	63.331	63.331.01
H200x40 mm	H260x50 mm	H298x24 mm	H200x15 mm	H280 mm	H280 mm
		do 40x40	do 40x40		do 40x40

blokada
pamięć
regulacja

regulacja

malowana

malowana

INOX

63.330	63.340	63.340.03	63.330.01	63.330.01C	63.330.02
H90x29 mm	H90x29 mm	H68x29 mm	H250x25 mm	H250x25 mm	H250x25 mm
gr. 21mm	gr. 21mm	gr. 21 mm	gr. 3 mm	gr. 3 mm	gr. 3 mm

Wkładki:

niklowana

63.301.01	63.301.05	63.301.11	63.301.02	63.301.06	63.301.12
25 x 25	30 x 30	36 x 36	25 x 25	30 x 30	36 x 36
3 x klucz	3 x klucz	3 x klucz	3 x klucz	3 x klucz	3 x klucz

Mocowania:

64.003	64.004	64.005	64.006
50 x 25 mm	50 x 30 mm	100 x 25 mm	100 x 25 mm
gr. 5 mm	gr. 5 mm	gr. 5 mm	gr. 5 mm

64.007	64.008	64.011	64.012
130 x 25 mm	130 x 30 mm	180 x 95 mm	180 x 95 mm
Kołek ø12	Kołek ø12	Baza 12x12 mm	Baza 12x12 mm

Nity:

64.020	64.021	64.022	64.023	64.024
36 x ø19 mm	25 x ø 25 mm	36 x ø 18 mm	32 x ø 21 mm	30 x ø 19 mm
Trzpień ø6	Trzpień ø6	Trzpień ø6	Trzpień ø10	Trzpień ø10

Rygle / zasuwy:

64.050	64.051	64.052
150 mm/ ø12	270 mm/ø16	340 mm/ø16
ocynk	malowana	malowana

64.053	64.054	64.055	64.059
340 mm/ ø16	340 mm/ø16	210 mm/ø14	220 mm/ø12
surowa	ocynk	malowana	ocynk

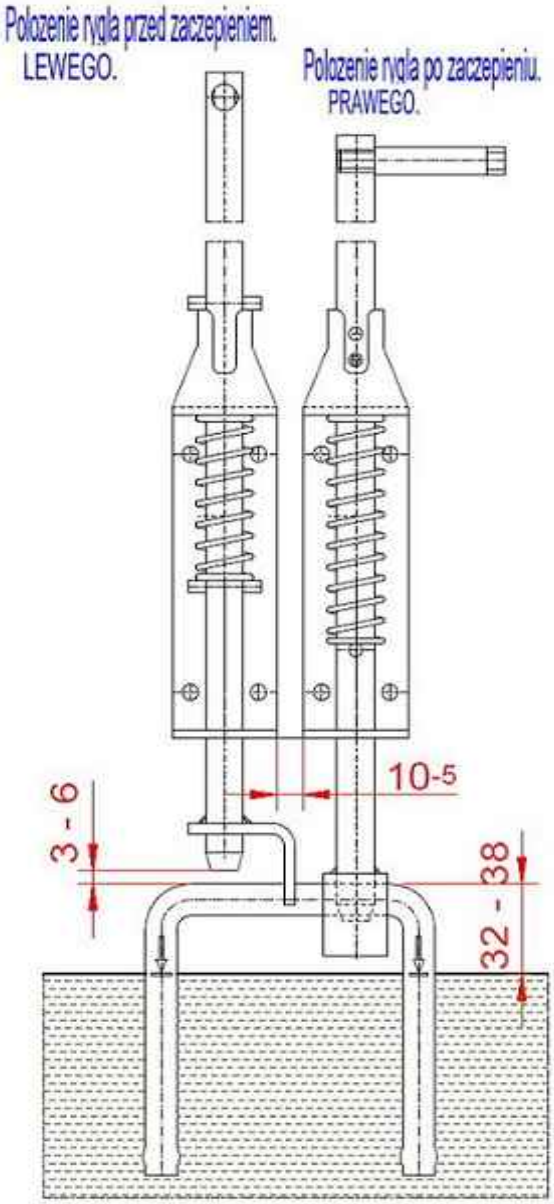
64.060	64.061	64.062
220 mm/ ø12	320 mm/ø14	420 mm/ø14
malowana	malowana	malowana

64.063	64.064	64.065
420 mm/ ø14	420 mm/ø14	800 mm/ø14
surowa	ocynk	ocynk

64.066	64.067
220 mm/ ø12	420 mm/ø14
ocynk	ocynk

Rygiel samozaczepowy

64.068.01	64.068
120x110 mm/ø12	430 mm/ø14
ocynk	ocynk



Rygiel samozaczepowy umożliwia zaczepienie skrzydła bramy samoistnie poprzez popchnięcie jej na zaczep. Zaczepy stosujemy i przy bramie zamkniętej (na środku wjazdu) i przy bramie otwartej (po obu stronach wjazdu).

Uwagi do montażu:

1. Zaczep najlepiej wmurować w podłoże. W wylewkę można nawiercić otwory fi16 i zacementować zaczep klejem cementowym na głębokości do znaczników na zaczepie.

2. Nie potrzebny jest żaden inny opór do bramy o ile jest dobrze zamontowany.

3. Dla bocznych zaczepień (po obu stronach bramy) można zamontować do betonitu i betonit wkopać.

4. Uchwyt rygla wkręcamy raz z jednej, raz z drugiej strony do pręta rygla zależnie czy to prawe czy lewe skrzydło bramy.

Uchwyty flag:

64.501	64.502	64.503
130x115 mm	130x115 mm	130x115 mm
mal. proszkowo	mal. proszkowo	mal. proszkowo

Skrzynki na listy:

65.200	65.202
405x255x90	405x255x90
czarna	miedziana

65.210	65.211
445x395x170	445x395x170
czarna	miedź antyczna

65.250	65.252
370x360x135	370x270x120
czarna	czarna

65.257	65.256	65.271	65.272
362x265x55	362x265x55	362x265x55	362x265x55
czarna	INOX	czarna karbon	czarna

65.273	65.259	65.270
362x265x55	400x275x135	360x290x65
czarna	ciemny grafit	Aluminium

65.274	65.275	65.276
400x330x100	400x330x100	400x330x100
czarna	czarna	czarna

65.277	65.278	65.279
400x330x100	400x330x100	400x330x100
czarna	czarna	czarna

Farby i patyny:

Farby poliwinylowe służą do dekoracyjnego malowania powierzchni stalowych i żeliwnych, głównie bram, krat, ogrodzeń, latarni, balustrad oraz różnych przedmiotów użytecznych i dekoracyjnych z kutej stali. Szczególnie polecana do malowania wyrobów kowalstwa artystycznego i renowacji zabytków.

Farby styrenowo-akrylowe przeznaczone są do malowania powierzchni ocynkowanych, aluminiowych, żelaznych i żeliwnych. Nadaje się do malowania powierzchni miejscowo skorodowanych. Zalecana jest do malowania konstrukcji ogrodzeń metalowych.

Farba podkładowa na metal

Farba podkładowa na ocynk

70.901	70.901.01	70.901.02	70.911	70.911.01	70.911.02
1 L	3 L	10 L	1 L	3 L	10 L
czerwona	czerwona	czerwona	czerwona	czerwona	czerwona

Farba poliwinylowa

Farba poliwinylowa

70.001	70.001.01	70.001.02	70.002	70.002.01	70.002.02
1 L	3 L	10 L	1 L	3 L	10 L
grafit antyczny	grafit antyczny	grafit antyczny	czarny antyczny	czarny antyczny	czarny antyczny

Farba poliwinylowa

Farba styrenowo - akrylowa

70.003	70.003.01	70.021	70.21.01	70.021.02
1 L	3 L	1 L	3 L	10 L
brąz antyczny	brąz antyczny	grafit antyczny	grafit antyczny	grafit antyczny

Farba styrenowo - akylowa

Farba styrenowo - akylowank

70.022	70.022.01	70.022.02	70.222	70.222.01	70.222.02
1 L	3 L	10 L	1 L	3 L	10 L
czarny antyczny	czarny antyczny	czarny antyczny	czarna	czarna	czarna

Farba styrenowo - akrylowa

Farba styrenowo - akrylowa

70.321	70.321.01	70.321.02	70.322	70.322.01	70.322.02
1 L	3 L	10 L	1 L	3 L	10 L
grafit mat	grafit mat	grafit mat	czarna mat	czarna mat	czarna mat

Patyny poliwinylowe

Patyny poliwinylowe

70.101	70.102	70.103	70.104	70.105
0,23 L	0,23 L	0,23 L	0,23 L	0,23 L
złoto	srebro	miedź	zieleń	jasna zieleń

Patyny styrenowo-akrylowe

70.121	70.122	70.123
0,23 L	0,23 L	0,23 L
złoto	srebro	miedź

Przemysłowe farby antykorozyjne i dekoracyjne tikkurila.

W ofercie szeroki zakres farb w kolorach RAL

Wysokiej jakości farby Tikkurila, oparte są na najnowocześniejszej technologii.
Farby i powłoki przemysłowe przeznaczone do zabezpieczania powierzchni:

- metalu w tym: stali, powierzchni cynkowanych i aluminium
- drewna,
- betonu.

W ofercie farby:

- alkidowe
- epoksydowe
- poliuretanowe

Najczęściej wybierane produkty:

TEMAPRIME EUR - Szybkoschnący, jednoskładnikowy podkład alkidowy pigmentowany antykorozyjnie fosforanem cynku, stosowany do malowania konstrukcji stalowych, maszyn rolniczych i innych maszyn i urządzeń. Czas schnięcia 20 min. w temp. 20°C

TEMALAC FD50 - Jednoskładnikowa, półpołyskowa, alkidowa farba nawierzchniowa, pigmentowana antykorozyjnie, stosowana na konstrukcjach stalowych wewnątrz i na zewnątrz pomieszczeń. Czas schnięcia 20 min. w temp. 20°C

TEMACOAT GPLS PRIMER - Dwuskładnikowy podkład epoksydowy utwardzany poliamidem, zawierający fosforan cynku. Zalecany do długotrwałego zabezpieczania mostów, konstrukcji stalowych, sprzętu transportowego, dźwigów, itp..

TEMACOAT RM40 - Dwuskładnikowa, modyfikowana farba epoksydowa o wszechstronnym zastosowaniu (metal, beton). Odpowiednia do stosowania zarówno wewnątrz jak i na zewnątrz pomieszczeń. Rekomendowana również do malowania obiektów podziemnych i podwodnych.

TEMADUR 50 - Dwuskładnikowa, półpołyskowa farba poliuretanowa stosowana do malowania zewnętrznych powierzchni zbiorników, konstrukcji stalowych oraz maszyn i urządzeń. Cechuje ją wyśmienita odporność na warunki atmosferyczne i ścieranie.

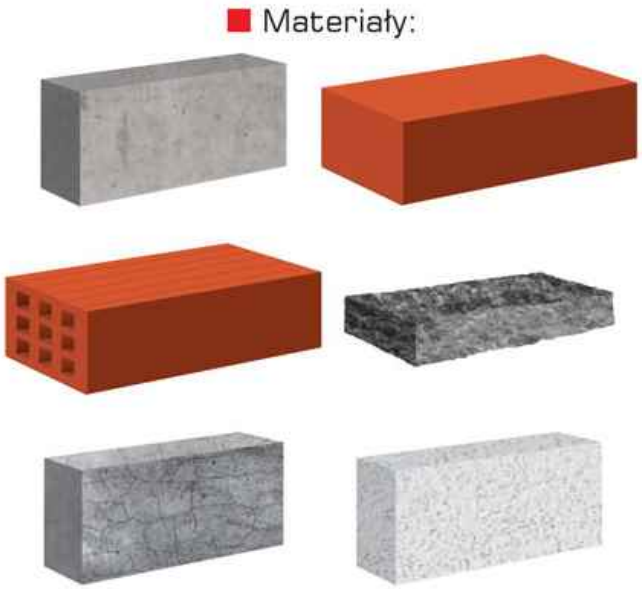
Chętnie dobierzemy odpowiednią powłokę, w razie pytań proszę dzwonić: 519 188 516

Więcej pod adresem: www.farbyprzemyslowe.kut-met.pl

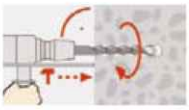
Kotwy chemiczne:

PE-S 300	PE-S 410	X-PRO 300	X-PRO 410	CRM 10
				mieszacz
300 ml	410 ml	300 ml	420 ml	do 300/410

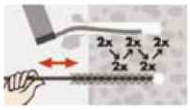
75.041
do 410/420ml
magnezowy



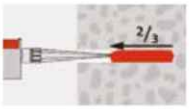
INSTALACJA



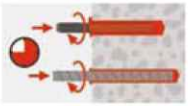
1. Wywiercić otwór zgodnie z parametrami instalacyjnymi. Otwory wiercone techniką diamentową muszą być chropowate.



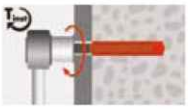
2. Dokładnie oczyścić otwór z pyłu za pomocą pompki i szczotki. Nie zaleca się czyszczenia otworu przy pomocy wody, ponieważ instalacja w mokrym otworze podwaja czas utwardzania.



3. Umieścić tubę w narzędziu aplikującym , otworzyć, dokręcić mieszadło, wstrzyknąć żywicę do otworu i wypełnić do 2/3 objętości.



4. Umieścić pręt w otworze i obrócić kilka razy w celu równomiernego rozłożenia żywicy wokół pręta. Sprawdzić czas wiązania i utwardzania przed obciążeniem pręta.



5. Dokręcić element mocowany stosując właściwy moment dokręcający wskazany w tabeli parametrów instalacyjnych.

Kotwy trzpieniowe:

BZ OCYNK GALWANICZNY

APROBATA EUROPEJSKA W PRZYGOTOWANIU

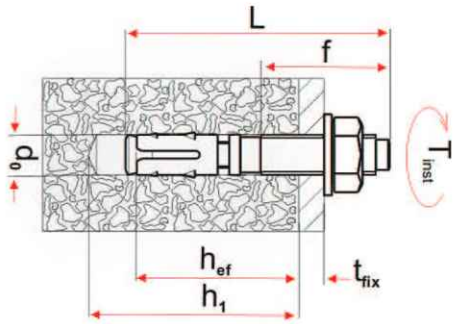
APROBATA ITB

Kotwa trzpieniowa Scell-it BZ jest przeznaczona do średnich i ciężkich zamocowań w twardym podłożu takim jak beton, kamień naturalny i cegła pełna (max. M8). Kotwa BZ posiada bardzo dobre parametry instalacyjne i wytrzymałościowe co wraz z wyjątkowo atrakcyjną ceną sprawia że jest to najbardziej ekonomiczne rozwiązanie w technice mocowań w betonie.

ROZMIARY, PARAMETRY INSTALACYJNE, DANE TECHNICZNE I OBCIĄŻENIA

Symbol ocynk galwaniczny	Średnica M	Długość całkowita L (mm)	Moment dokręcający t inst (Nm)	Średnica otworu df (mm)	Długość gwintu f (mm)	Grubość mocowania tfix (mm)	Rozmiar klucza SW	Średnica wiertła do (mm)	Minimalna głębokość otworu h1 (mm)	Efektywna głębokość osadzenia hef (mm)	Obciążenia wyrywające w kN* w betonie B20/25	Opakowania opk /opk. zbiorcze
BZ 08X50	M8	50	15	8	18	2	13	8	55	40	6,0	200/800
BZ 08X65	M8	65	15	8	33	5	13	8	65	50	6,0	100/400
BZ 08X70	M8	70	15	8	38	10	13	8	65	50	6,0	100/400
BZ 08X80	M8	80	15	8	48	20	13	8	65	50	6,0	100/400
BZ 08X95	M8	95	15	8	63	35	13	8	65	50	6,0	100/400
BZ 08X105	M8	105	15	8	73	45	13	8	65	50	6,0	100/400
BZ 08X130	M8	130	15	8	98	70	13	8	65	50	6,0	50/200
BZ 08X165	M8	165	15	8	100	105	13	8	65	50	6,0	50/200
BZ 10X80	M10	80	25	10	44	10	17	10	80	60	8,0	50/200
BZ 10X95	M10	95	25	10	59	25	17	10	80	60	8,0	50/200
BZ 10X120	M10	120	25	10	84	50	17	10	80	60	8,0	50/200
BZ 10X150	M10	150	25	10	100	80	17	10	80	60	8,0	50/200
BZ 12X80	M12	80	40	12	39	3	19	12	90	65	13,3	50/200
BZ 12X100	M12	100	40	12	59	15	19	12	95	70	13,3	50/200
BZ 12X120	M12	120	40	12	79	35	19	12	95	70	13,3	25/100
BZ 12X135	M12	135	40	12	94	50	19	12	95	70	13,3	25/100
BZ 12X180	M12	180	40	12	100	95	19	12	95	70	13,3	25/100
BZ 16X105	M16	105	80	16	58	5	24	16	110	75	19,4	25/100
BZ 16X125	M16	125	80	16	78	20	24	16	115	85	19,4	20/80
BZ 16X140	M16	140	80	16	93	35	24	16	115	85	19,4	20/80
BZ 16X180	M16	180	80	16	100	75	24	16	115	85	19,4	10/40

* Podane wartości są nośnościami obliczeniowymi. Wartości obciążeń uwzględniają częściowe współczynniki bezpieczeństwa dotyczące wytrzymałości określonych w aprobatach, jak również częściowy współczynnik bezpieczeństwa dotyczący działania yF=1.4



L	Długość całkowita
tinst	Moment dokrecający
do	Średnica otworu
f	Długość gwintu
tfix	Grubość mocowania
h1	Minimalna głębokość otworu
hef	Efektywna głębokość osadzenia

Tarcze:

Tarcza do cięcia stali

Symbol	Grubość	Wymiar
TCI 115 10 22	1 mm	115 x 1,0 x 22
TCI 125 10 22	1 mm	125 x 1,0 x 22
TCI 125 16 22	1,6 mm	125 x 1,6 x 22
TCI 125 25 22	2,5 mm	125 x 2,5 x 22
TCI 180 20 22	2,0 mm	180 x 2,0 x 22
TCI 230 20 22	2,0 mm	230 x 2,0 x 22
TCI 230 30 22	3,0 mm	230 x 3,0 x 22

Tarcza do szlifowania

Symbol	Grubość	Wymiar
TZI 115 60 22	6 mm	115 x 6,0 x 22
TZI 125 60 22	6 mm	125 x 6,0 x 22
TZI 180 60 22	6 mm	180 x 6,0 x 22
TZI 230 60 22	6 mm	230 x 6,0 x 22

Tarcza do szlifowania listkowa (lamelka)

INOX

Symbol	Ziarno	Wymiar
TZI 125 22 40	40	125 x 22 x 40
TZI 125 22 60	60	125 x 22 x 60
TZI 125 22 80	80	125 x 22 x 80
TLS 125 22 40	40	125 x 22 x 40
TLS 125 22 60	60	125 x 22 x 60
TLS 125 22 80	80	125 x 22 x 80

Tarcza do cięcia stali

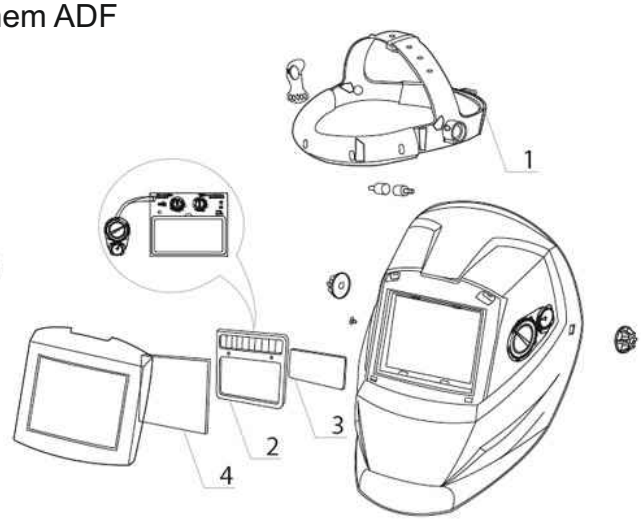
Symbol	Grubość	Wymiar
TCI 300 30 32	3 mm	300 x 3,0 x 32
TCI 350 35 32	3,5 mm	350 x 3,5 x 32
TCI 400 40 32	4 mm	400 x 4,0 x 32

Drut spawalniczy:

Symbol	Rodzaj	Grubość	Waga
SP.001.08	G3Si1/SG2	0,8 mm	15 kg
SP.002.10	G3Si1/SG2	1,0 mm	15 kg
SP.003.12	G3Si1/SG2	1,2 mm	15 kg
SP.010.12	G4Si1/SG3	1,2 mm	15 kg

Symbol	Rodzaj	Grubość	Waga
SP.004.08X	G3Si1/SG2	0,8 mm	5 kg
SP.005.10X	G3Si1/SG2	1,0 mm	5 kg

Przyłbica automatyczna z systemem ADF



SWM.PRZYLBICA.01	SWM.UCHWYT.01	SWM.ADF.01	SWM.INNER.01	SWM.OUTER.01
Przyłbica	Uchwyt przyłbicy	Filtr ADF	Wew. soczewki ochronne	Zew. soczewki ochronne
automatyczna	na rys. 1	na rys. 2	na rys. 3	na rys. 4

Automatyka:

Zestaw startowy ALFA - 414
Zestaw 2 elektromechanicznych siłowników do użytku przydomowego dla skrzydła o długości do 3

W zestawie:
2 siłowniki z elementami montażowymi
Centrala sterująca E 045
Obudowa centrali
Moduł radiowy XF 868 Mhz
3 piloty czterokanałowe XT4 868 Mhz czarne
Para fotokomórek XP20B D

Zestaw startowy ENERGY 24V
Zestaw 2 elektromechanicznych siłowników z ramieniem do użytku przydomowego dla skrzydła o długości do 2,5m

W zestawie:
2 siłowniki z ramieniem łamanym
Centrala sterująca wbudowana w jeden z siłowników
Moduł radiowy XF 868 Mhz
3 piloty czterokanałowe XT4 868 Mhz czarne
Para fotokomórek XP20B D

Zestaw startowy Handy 24V
Zestaw 2 elektromechanicznych siłowników do użytku przydomowego dla skrzydła o długości do 2,3m

W zestawie:
2 siłowniki
Centrala sterująca E E024S
Moduł radiowy XF 868 Mhz
3 piloty czterokanałowe XT4 868 Mhz czarne
Para fotokomórek XP20B D

Zestaw startowy DELTA 2 - 740
Napęd elektromechaniczny 740 z wbudowaną centralą 748D do bram przesuwnych do użytku przydomowego dla skrzydła o wadze maks. 500 kg.

W zestawie:
Napęd z wbudowaną centralą 748D
Podstawa montażowa
Odbiornik radiowy Rp2 LC 868 2-kanałowy
3 piloty czterokanałowe XT4 868 Mhz czarne
Para fotokomórek XP20 D

Zestaw startowy DELTA 3 - 741
Napęd elektromechaniczny 741 z wbudowaną centralą 748D do bram przesuwnych do użytku przydomowego dla skrzydła o wadze maks. 900 kg.

W zestawie:
Napęd z wbudowaną centralą 748D
Podstawa montażowa
Odbiornik radiowy Rp2 LC 868 2-kanałowy
3 piloty czterokanałowe XT4 868 Mhz czarne
Para fotokomórek XP20 D

Zestaw startowy CYCLO 24V - C720
Napęd elektromechaniczny C720 z wbudowaną centralą E720 do bram przesuwnych do użytku przydomowego dla skrzydła o wadze maks. 400 kg.

W zestawie:
Napęd z wbudowaną centralą E720
Podstawa montażowa
Moduł radiowy XF 868 Mhz
3 piloty czterokanałowe XT4 868 Mhz czarne
Para fotokomórek XP20B D

Zestaw FAAC D600 do bram garażowych z szyną 3m
Napęd elektromechaniczny 24V do bram segmentowych lub podnoszonych ze sprężyną/siłownikiem

W zestawie:
Głowica napędu z wbudowaną centralą
Szyna 3m z łańcuchem
Radioodbiornik 868 Mhz
1 piloty czterokanałoweyXT4 868 Mhz czarne

FAACLIGHT	Xt4 868 SLH C	AE-868	787749
230 V	4 kanały	do 868 Mhz	Radio uniwersalne
	868 Mhz	5 m	2 kanały 868 Mhz

W ofercie posiadamy również inne modele automatyki firmy FAAC, szlabany oraz akcesoria (piloty, lampy, centrale itp.)

P.P.H.U.
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