

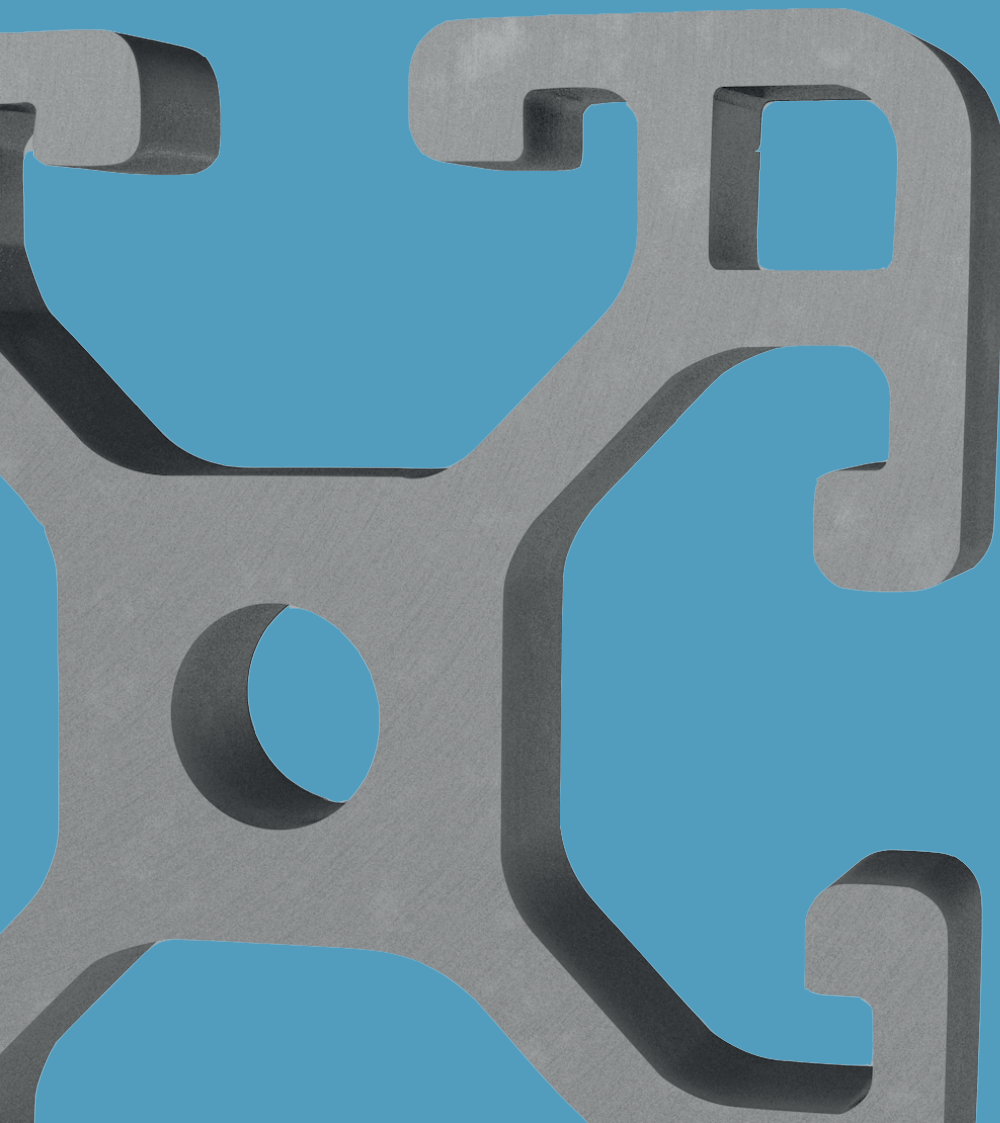


WMH GROUP GERMANY. QUALITÄT.



ALUMINIUM PROFILE SYSTEM SERIES 40

With the basic grid 20mm (slot 5); 30mm (slot 6),
16mm, 40mm and 80mm (slot 8).
In addition to this, the complete connection technology
and a large range of accessories.





ALUMINIUM PROFILES SERIES 40

PAGE

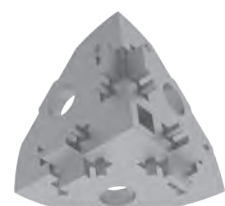
Technical data and profile cross-sections	2.4 - 2.17
Processing of profiles for connectors	2.18 - 2.19
Prices of aluminium profile processing	2.20
Aluminium profile prices and delivery units	2.4 - 2.17



COMPONENTS

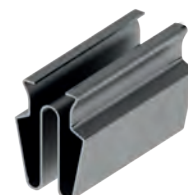
PAGE

Angle connector	2.22
Articulated feet	2..56
ASK combination foot	2.57
ASK handle system	2.40
Ball caster	2.42
Base plates	2.58
Bolt anchor	2.61
Bolt connector	2.22
Bracket	2.26 - 2.27
Bullet catch	2.39
Cable carrier	2.50
Cable ducts	2.52
Carrier rollers	2.42
Casters with screw-on plate	2.64 - 2.65
Casters with bolt hole	2.62
Centring plate kit	2.24
Clamping lever	2.43
Clamping bracket	2.28
Clamping block	2.46
Closure profiles	2.46
Connecting plate	2.25
Corner bracket	2.28
Cover and closure profiles	2.46
Cover caps for aluminium profiles	2.30
Cover cap for bracket	2.29
Cover cap for cable duct	2.53
Cover for cable duct	2.52
Cover caps for corner bracket	2.29
Cover cap for handle	2.40
Cross-cable tie block	2.50
Damping ring for articulated foot	2.56
Door lock	2.38
Door lock, compact	2.38
Door stop	2.39
Fastening bracket for bullet catch	2.39
Fastening bracket for telescopic support	2.60





COMPONENTS	PAGE
Fastening kit for casters	2.64
Fixed casters with screw-on plate	2.64 - 2.65
Form connector	2.25
Foundation bracket	2.59
Handles	2.40
Handle, angled	2.41
Heavy duty casters with screw-on plate	2.66
Hinges	2.36 - 2.37
Joints	2.44
Joint angle	2.28
Lifting caster	2.63
Magnetic latch	2.39
Multi-uniblock	2.48 - 2.49
Plate for articulated feet	2.54
Rubber cover profile	2.51
Profile connector	2.22
Quick connector, rotation lock	2.23
Quick connector, screw-in	2.22
Rhomboid T-slot nut	2.33
Rollers for roller track	2.43
Roller holder	2.42
Round head screws	2.34 - 2.35
Screw-in connector	2.25
Screws for cover cap	2.53
Sealing profile	2.47
Sliding strip	2.42
Slot nuts	2.32 - 2.33
Steel bracket	2.25
Swivel fastening	2.45
System slide	2.51
Threaded rods with ball	2.55
Threaded sleeve	2.55
Universal bullet catch	2.38
Uni butt connector	2.24
Uni clamping kit	2.24
Universal floor support	2.60





WMH GROUP GERMANY. QUALITÄT.



QUALITÄT – close to you no matter where you are.

WMH GROUP GERMANY delivers shining, polished aluminium products to all branches of industry. Whether it's semi-finished products manufactured in large volumes or products custom-made specifically for you and your requirements, we can offer you precisely the solution that fits into your supply chain and will make you more competitive.

Our product portfolio includes sheets and plates, profiles, pipes, rods and purpose-built items. And it's in precisely these specialist products that we really excel and can support you with fully customised products using alloys and hardness levels of quite differing specifications.

Founded over 80 years ago, WMH GROUP GERMANY is today a global player. This progress has been made possible by a corporate strategy built consistently on QUALITÄT.

Thanks to our sophisticated quality management system, we have over the years been able to continuously improve our processes and products so that we satisfy the stringent requirements of the aerospace industry – a milestone for WMH.

Our certification as an aerospace supplier as well as an innovation drive within the company have made WMH a globally sought-after partner. In the meantime, we have offices in Europe, Asia and North America. With representatives located in Belgium, Spain and Italy, along with subsidiaries in Poland, France, the United Kingdom, China and the USA, we are close to you no matter where you are.

Our real strength? We combine QUALITÄT and logistics in such a unique way that you can count on us all the time, anytime. We're fast, reliable and affordable.

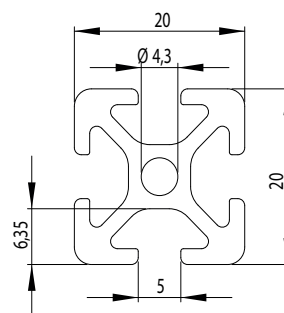
Having perfectly coordinated our production and stock-management structures, we can deliver to you just in time.

We'd be very glad to help you with your projects, too. Please don't hesitate to contact us. Our experts would love to develop a shining, polished solution together with you, for you.

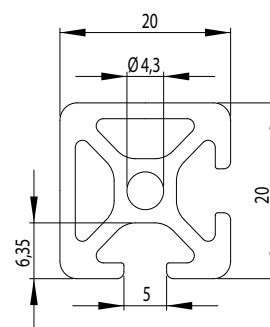
More QUALITÄT online: www.wmh-group.com >>

**PROFILE 20 × 20****slot 5****Article no.:** 202010

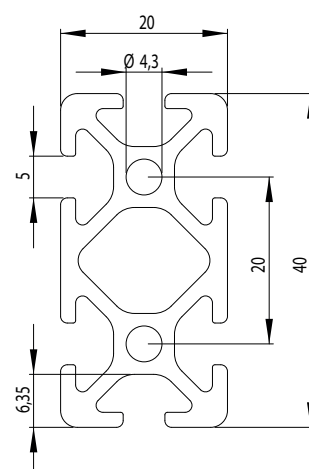
Ix	0,72 cm ⁴	Wx	0,72 cm ³	Profile surface	1,80 cm ²
Iy	0,72 cm ⁴	Wy	0,72 cm ³	Mass	0,48 kg/m

**PROFILE 20 × 20 2N90****slot 5****Article no.:** 202020

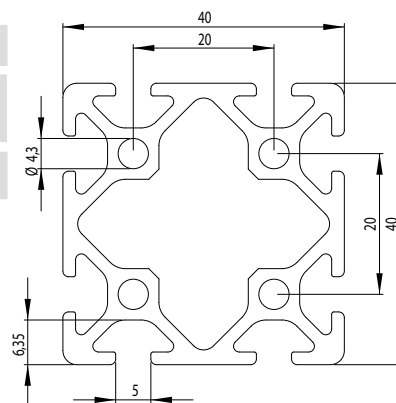
Ix	0,78 cm ⁴	Wx	0,76 cm ³	Profile surface	1,91 cm ²
Iy	0,78 cm ⁴	Wy	0,76 cm ³	Mass	0,51 kg/m

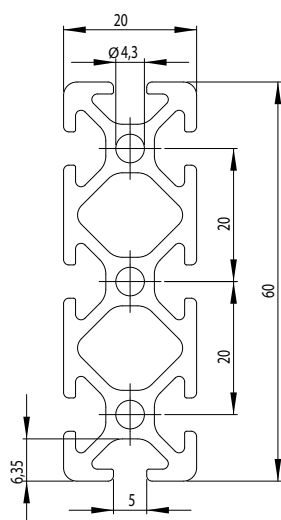
**PROFILE 20 × 40****slot 5****Article no.:** 202030

Ix	0,41 cm ⁴	Wx	1,41 cm ³	Profile surface	3,32 cm ²
Iy	5,14 cm ⁴	Wy	2,57 cm ³	Mass	0,89 kg/m

**PROFILE 40 × 40****slot 5****Article no.:** 202031

Ix	9,33 cm ⁴	Wx	4,62 cm ³	Profile surface	5,14 cm ²
Iy	9,33 cm ⁴	Wy	4,62 cm ³	Mass	1,39 kg/m

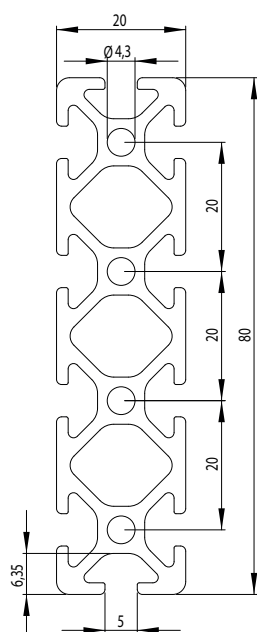




PROFILE 20 × 60

slot 5

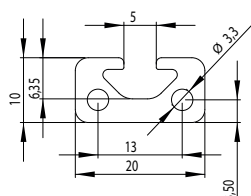
Article no.:		202033	
lx	2,06 cm ⁴	Wx	2,06 cm ³
ly	16,09 cm ⁴	Wy	5,36 cm ³
		Profile surface	4,76 cm ²
		Mass	1,28 kg/m



PROFILE 20 × 80

slot 5

Article no.:		202034	
lx	2,76 cm ⁴	Wx	2,76 cm ³
ly	36,88 cm ⁴	Wy	9,02 cm ³
		Profile surface	6,25 cm ²
		Mass	1,67 kg/m



PROFILE 20 × 10

slot 5

Article no.:		202005	
lx	0,12 cm ⁴	Wx	0,22 cm ³
ly	0,53 cm ⁴	Wy	0,53 cm ³
		Profile surface	1,29 cm ²
		Mass	0,22 kg/m





Article no.:

202040

Ix	2,90 cm ⁴	Wx	1,94 cm ³	Profile surface	3,43 cm ²
Iy	2,90 cm ⁴	Wy	1,94 cm ³	Mass	0,93 kg/m



slot 6

Article no.:

202045

Ix	4,15 cm ⁴	Wx	2,77 cm ³	Profile surface	4,67 cm ²
Iy	4,15 cm ⁴	Wy	2,77 cm ³	Mass	1,26 kg/m



slot 6

Article no.:

202042

Ix	3,02 cm ⁴	Wx	1,98 cm ³	Profile surface	3,54 cm ²
Iy	3,02 cm ⁴	Wy	1,98 cm ³	Mass	0,96 kg/m



slot 6

Article no.:

202050

Ix	5,54 cm ⁴	Wx	3,69 cm ³	Profile surface	6,13 cm ²
Iy	21,22 cm ⁴	Wy	7,07 cm ³	Mass	1,65 kg/m



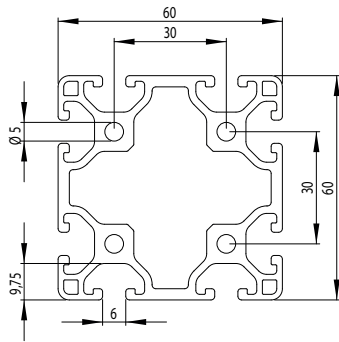
slot 6

Article no.:

202052

Ix 7,92 cm ⁴	Wx 5,28 cm ³	Profile surface	8,47 cm ²
Iy 29,30 cm ⁴	Wy 9,77 cm ³	Mass	2,29 kg/m

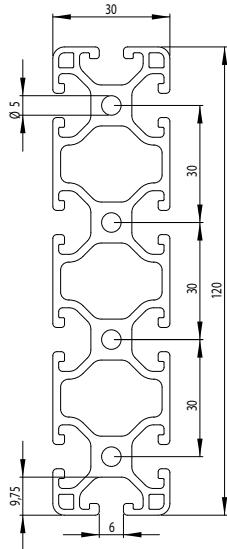




PROFILE 60 × 60L

slot 6

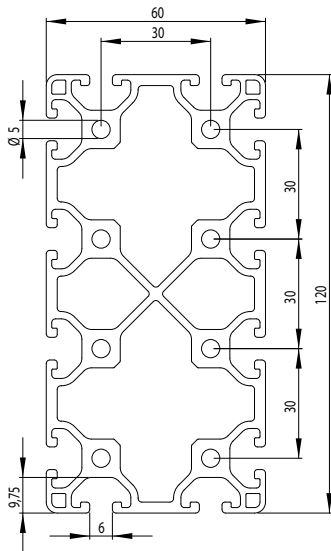
Article no.:		202053	
lx	39,98 cm ⁴	Wx	12,96 cm ³
ly	39,98 cm ⁴	Wy	12,96 cm ³
Profile surface		10,1 cm ²	
Mass		2,7 kg/m	



PROFILE 30 × 120 L

slot 6

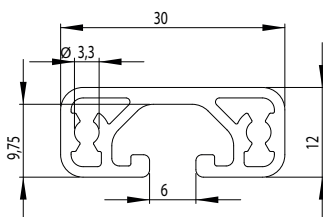
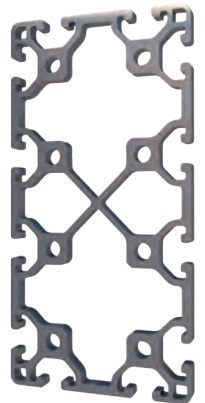
Article no.:		202057	
lx	11,04 cm ⁴	Wx	7,21 cm ³
ly	154,51 cm ⁴	Wy	25,44 cm ³
Profile surface		11,65 cm ²	
Mass		3,11 kg/m	



PROFILE 60 × 120L

slot 6

Article no.:		202058	
lx	77,39 cm ⁴	Wx	25,8 cm ³
ly	261,87 cm ⁴	Wy	43,65 cm ³
Profile surface		18,78 cm ²	
Mass		5,05 kg/m	



PROFILE 30 × 12L

slot 6

Article no.:		202015	
lx	0,25 cm ⁴	Wx	0,39 cm ³
ly	1,46 cm ⁴	Wy	0,98 cm ³
Profile surface		1,58 cm ²	
Mass		0,43 kg/m	

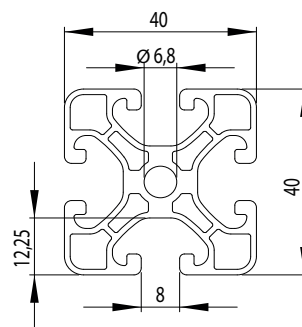


**PROFILE 40 × 40EL**

slot 8

Article no.:	202071		
Article no.:	202071LE1#3000		

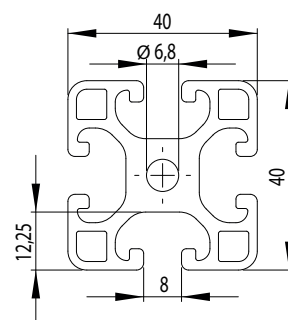
Ix	7,38 cm ⁴	Wx	3,69 cm ³	Profile surface	5,07 cm ²
Iy	7,38 cm ⁴	Wy	3,69 cm ³	Mass	1,37 kg/m

**PROFILE 40 × 40L**

slot 8

Article no.:	202060		
Article no.:	202060LE1#3000		

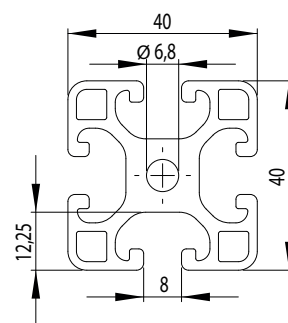
Ix	9,00 cm ⁴	Wx	4,50 cm ³	Profile surface	6,46 cm ²
Iy	9,00 cm ⁴	Wy	4,50 cm ³	Mass	1,74 kg/m

**PROFILE 40 × 40L , BLACK ANODIZED**

slot 8

Article no.:	202060 SW		
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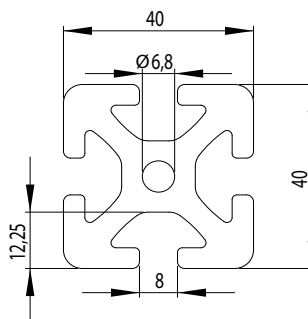
Ix	9,00 cm ⁴	Wx	4,50 cm ³	Profile surface	6,46 cm ²
Iy	9,00 cm ⁴	Wy	4,50 cm ³	Mass	1,74 kg/m

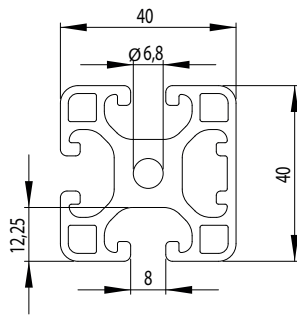
**PROFILE 40 × 40**

slot 8

Article no.:	202072		
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Ix	13,96 cm ⁴	Wx	6,98 cm ³	Profile surface	9,16 cm ²
Iy	13,96 cm ⁴	Wy	6,98 cm ³	Mass	2,47 kg/m

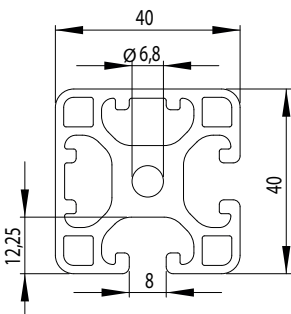




PROFILE 40 × 40L 1N

slot 8

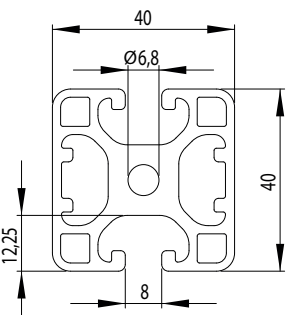
Article no.:		202065	
Ix	9,54 cm ⁴	Wx	4,66 cm ³
Iy	9,01 cm ⁴	Wy	4,50 cm ³
Profile surface		6,61 cm ²	
Mass		1,78 kg/m	



PROFILE 40 × 40L 2N90

slot 8

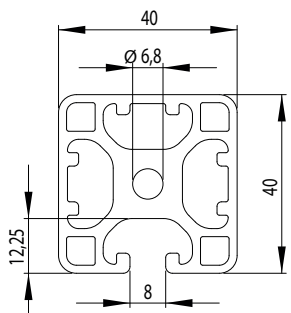
Article no.:		202070	
Ix	9,64 cm ⁴	Wx	4,70 cm ³
Iy	9,64 cm ⁴	Wy	4,70 cm ³
Profile surface		6,80 cm ²	
Mass		1,84 kg/m	



PROFILE 40 × 40L 2N180

slot 8

Article no.:		202068	
Ix	9,02 cm ⁴	Wx	4,51 cm ³
Iy	10,11 cm ⁴	Wy	5,05 cm ³
Profile surface		6,77 cm ²	
Mass		1,83 kg/m	



PROFILE 40 × 40L 3N

slot 8

Article no.:		202069	
Ix	9,62 cm ⁴	Wx	4,70 cm ³
Iy	10,22 cm ⁴	Wy	5,11 cm ³
Profile surface		6,96 cm ²	
Mass		1,90 kg/m	





SERIES 40 SLOT 8

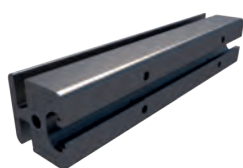
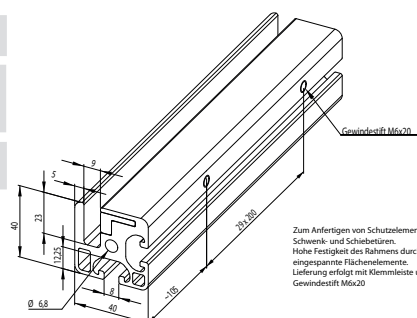


CLAMP PROFILE 40 × 40

slot 8

Article no.: 202063

Ix	9,51 cm ⁴	Wx	4,76 cm ³	Profile surface	7,51 cm ²
Iy	12,27 cm ⁴	Wy	6,14 cm ³	Mass	2,30 kg/m

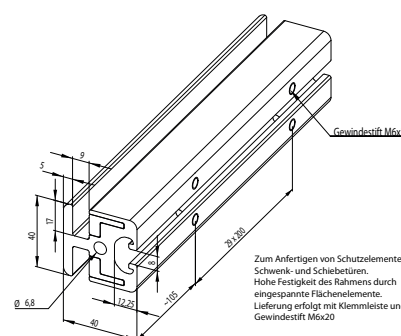


CLAMP PROFILE 40 × 40 - 180°

slot 8

Article no.: 202064

Ix	11,41 cm ⁴	Wx	5,71 cm ³	Profile surface	8,41 cm ²
Iy	13,08 cm ⁴	Wy	6,54 cm ³	Mass	2,56 kg/m



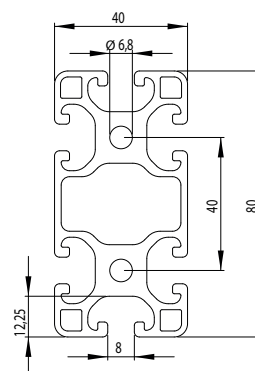
PROFILE 40 × 80L

slot 8

Article no.: 202080

Article no.: 202080LE1#3000

Ix	16,60 cm ⁴	Wx	8,30 cm ³	Profile surface	11,38 cm ²
Iy	69,54 cm ⁴	Wy	17,38 cm ³	Mass	3,04 kg/m

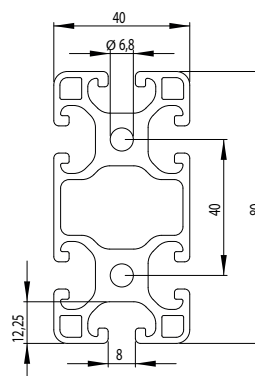


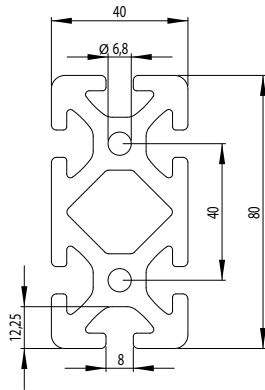
PROFILE 40 × 80L BLACKANODIZED

slot 8

Article no.: 202080SW

Ix	16,60 cm ⁴	Wx	8,30 cm ³	Profile surface	11,38 cm ²
Iy	69,54 cm ⁴	Wy	17,38 cm ³	Mass	3,04 kg/m

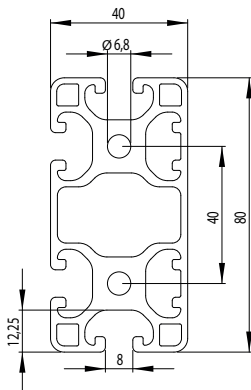




PROFILE 40 × 80

slot 8

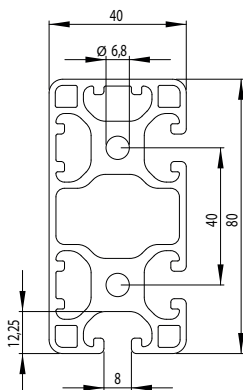
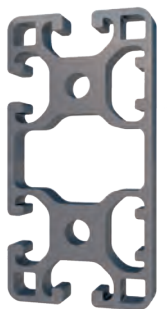
Article no.:		202081	
lx	26,87 cm ⁴	Wx	13,44 cm ³
ly	101,19 cm ⁴	Wy	25,29 cm ³
Profile surface		16,76 cm ²	
Mass		4,53 kg/m	



PROFILE 40 × 80L 2N

slot 8

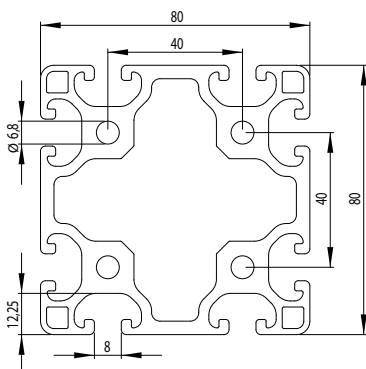
Article no.:		202082	
lx	17,73 cm ⁴	Wx	8,63 cm ³
ly	70,87 cm ⁴	Wy	17,72 cm ³
Profile surface		11,60 cm ²	
Mass		3,13 kg/m	



PROFILE 40 × 80 3N90

slot 8

Article no.:		202079	
lx	18,24 cm ⁴	Wx	9,17 cm ³
ly	76,12 cm ⁴	Wy	17,72 cm ³
Profile surface		11,98 cm ²	
Mass		3,14 kg/m	



PROFILE 80 × 80L

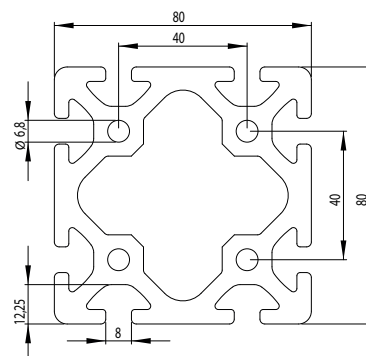
slot 8

Article no.:		202090	
lx	134,06 cm ⁴	Wx	33,51 cm ³
ly	134,06 cm ⁴	Wy	33,51 cm ³
Profile surface		19,75 cm ²	
Mass		5,33 kg/m	

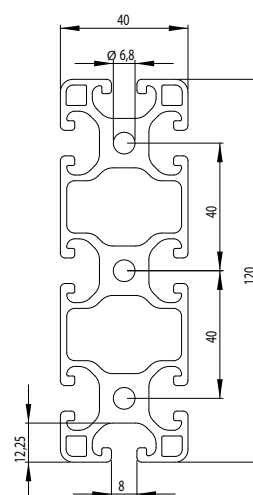


**PROFILE 80 × 80****slot 8**

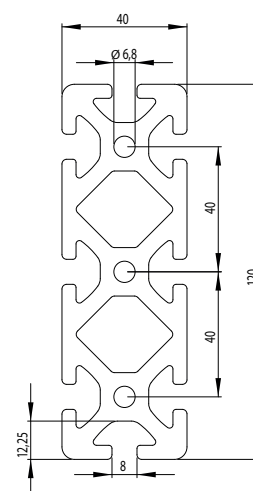
Article no.:		202091			
Ix	187,70 cm ⁴	Wx	46,92 cm ³	Profile surface	26,66 cm ²
Iy	187,70 cm ⁴	Wy	46,92 cm ³	Mass	7,19 kg/m

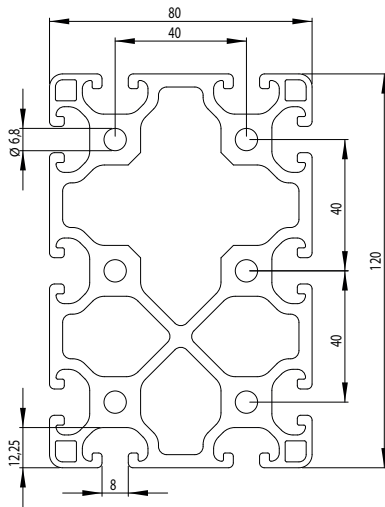
**PROFILE 40 × 120L****slot 8**

Article no.:		202083			
Ix	24,22 cm ⁴	Wx	12,11 cm ³	Profile surface	16,12 cm ²
Iy	220,54 cm ⁴	Wy	36,76 cm ³	Mass	4,35 kg/m

**PROFILE 40 × 120****slot 8**

Article no.:		202084			
Ix	39,80 cm ⁴	Wx	19,90 cm ³	Profile surface	24,38 cm ²
Iy	322,66 cm ⁴	Wy	53,77 cm ³	Mass	6,58 kg/m



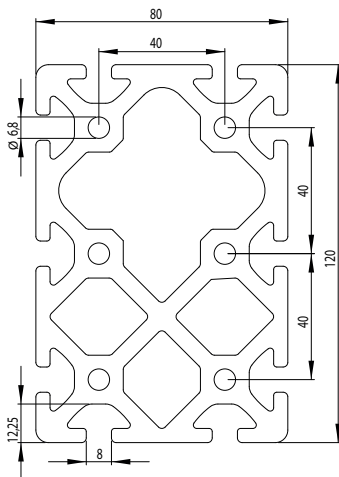
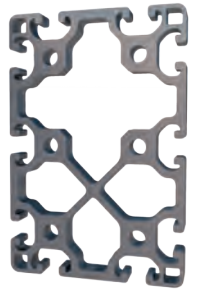


PROFILE 80 × 120L

slot 8

Article no.: 202095

lx	201,89 cm ⁴	Wx	50,47 cm ³	Profile surface	30,13 cm ²
ly	421,67 cm ⁴	Wy	68,34 cm ³	Mass	8,13 kg/m

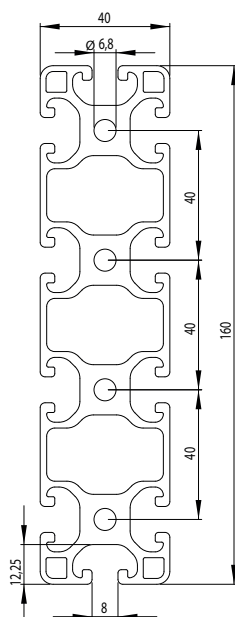
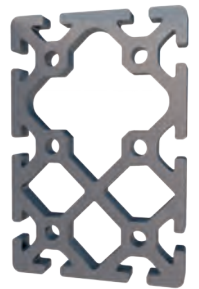


PROFILE 80 × 120

slot 8

Article no.: 202096

lx	274,86 cm ⁴	Wx	68,71 cm ³	Profile surface	40,05 cm ²
ly	574,86 cm ⁴	Wy	92,72 cm ³	Mass	10,81 kg/m



PROFILE 40 × 160L

slot 8

Article no.: 202085

lx	31,81 cm ⁴	Wx	15,90 cm ³	Profile surface	20,90 cm ²
ly	500,32 cm ⁴	Wy	62,54 cm ³	Mass	5,64 kg/m





slot 8

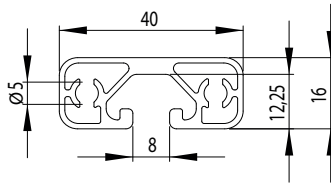
202086

slot 8

202099

slot 8

202100

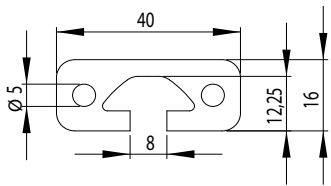


PROFILE 40 × 16L

slot 8

Article no.: 202056

lx	0,64 cm ⁴	Wx	0,78 cm ³	Profile surface	2,24 cm ²
ly	3,34 cm ⁴	Wy	1,67 cm ³	Mass	0,60 kg/m

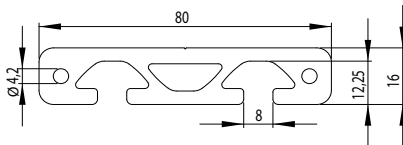


PROFILE 40 × 16

slot 8

Article no.: 202055

lx	1,05 cm ⁴	Wx	1,22 cm ³	Profile surface	4,24 cm ²
ly	6,89 cm ⁴	Wy	3,45 cm ³	Mass	1,12 kg/m

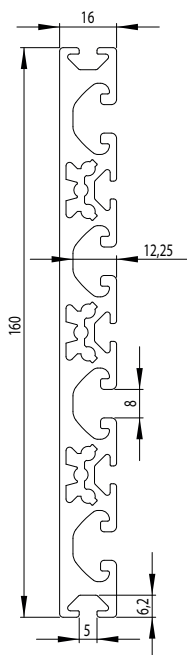


PROFILE 80 × 16

slot 8

Article no.: 202088

lx	2,15 cm ⁴	Wx	2,69 cm ³	Profile surface	8,13 cm ²
ly	50,76 cm ⁴	Wy	12,69 cm ³	Mass	2,20 kg/m



PROFILE 160 × 16

slot 8

Article no.: 202089

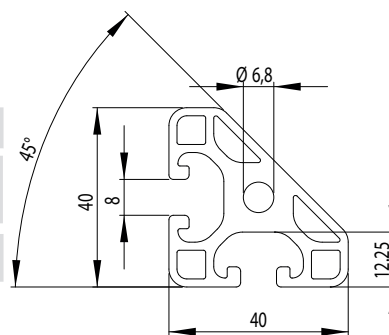
lx	3,80 cm ⁴	Wx	4,25 cm ³	Profile surface	13,88 cm ²
ly	307,83 cm ⁴	Wy	38,48 cm ³	Mass	3,75 kg/m



**PROFILE 40 × 40L | 45°**

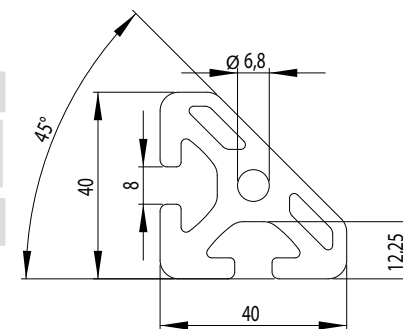
slot 8

Article no.:		202067		
Ix	6,50 cm ⁴	Wx	2,90 cm ³	Profile surface
Iy	6,50 cm ⁴	Wy	2,90 cm ³	Mass

5,58 cm²
1,50 kg/m**PROFILE 40 × 40 | 45°**

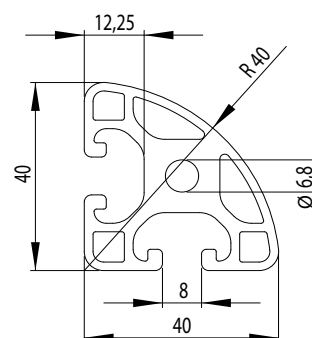
slot 8

Article no.:		202066		
Ix	9,39 cm ⁴	Wx	4,08 cm ³	Profile surface
Iy	9,39 cm ⁴	Wy	4,08 cm ³	Mass

7,30 cm²
1,97 kg/m**PROFILE 40 × 40L R40 - 90°**

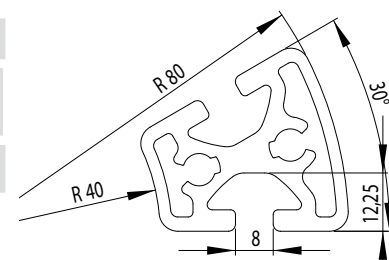
slot 8

Article no.:		202061		
Ix	6,65 cm ⁴	Wx	3,04 cm ³	Profile surface
Iy	6,65 cm ⁴	Wy	3,04 cm ³	Mass

5,72 cm²
1,54 kg/m**PROFILE R40 / R80 - 30°**

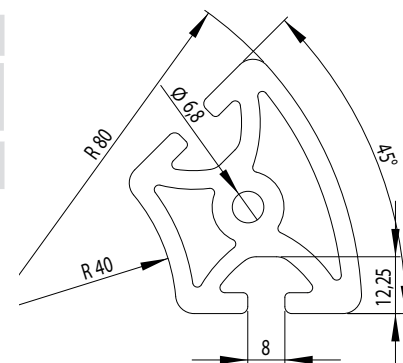
slot 8

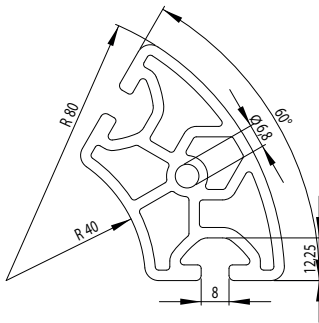
Article no.:		202073		
Ix	6,42 cm ⁴	Wx	2,84 cm ³	Profile surface
Iy	8,90 cm ⁴	Wy	3,80 cm ³	Mass

6,20 cm²
1,67 kg/m**PROFILE R40 / R80 - 45°**

slot 8

Article no.:		202074		
Ix	21,33 cm ⁴	Wx	6,74 cm ³	Profile surface
Iy	16,06 cm ⁴	Wy	6,14 cm ³	Mass

10,23 cm²
2,76 kg/m

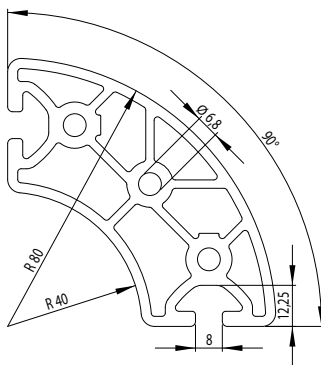


PROFILE R40/R80 - 60°

slot 8

Article no.: 202075

lx	22,64 cm ⁴	Wx	5,96 cm ³	Profile surface	10,50 cm ²
ly	34,92 cm ⁴	Wy	11,56 cm ³	Mass	2,82 kg/m

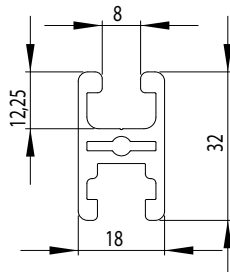


PROFILE R40/R80 - 90°

slot 8

Article no.: 202076

lx	76,25 cm ⁴	Wx	18,69 cm ³	Profile surface	15,00 cm ²
ly	76,25 cm ⁴	Wy	18,69 cm ³	Mass	4,05 kg/m

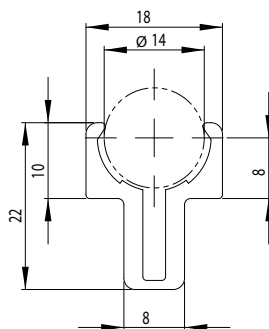


PROFILE 32 x 18

slot 8

Article no.: 202035

lx	2,50 cm ⁴	Wx	1,70 cm ³	Profile surface	3,30 cm ²
ly	2,50 cm ⁴	Wy	1,70 cm ³	Mass	0,90 kg/m



SHAFT CLAMP PROFILE

slot 8

Article no.: 99900040

Profile surface	1,36 cm ²
Mass	0,36 kg/m



SHAFT D14

Article no.: 99900039

Material:	Hardened steel, Cf53, polished
Mass:	1,21 kg/m



PROFILE PROCESSING FOR CENTRING PLATE KIT s5|s6|s8



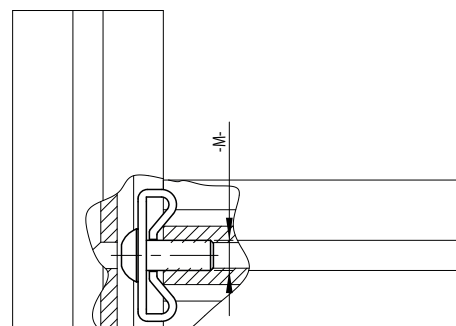
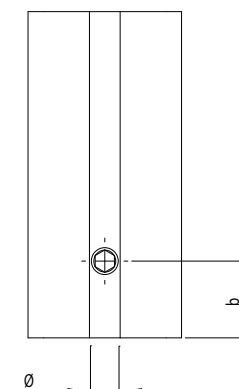
Article no.:	380003
Profile	20x20 slot 5
Hole Ø	Ø 5mm
Distance (b)	10mm
Thread	M5

Article no.:	380005
Profile	30x30 slot 6
Hole Ø	Ø 6mm
Distance (b)	15mm
Thread	M6



380010

Article no.:	380010
Profile	40x40 slot 8
Hole Ø	Ø 7mm
Distance (b)	20mm
Thread	M8



PROFILE PROCESSING FOR UNI CLAMPING KIT s5|s6|s8

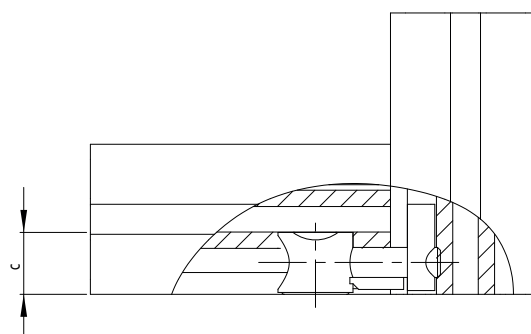
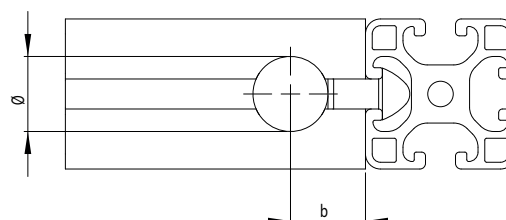


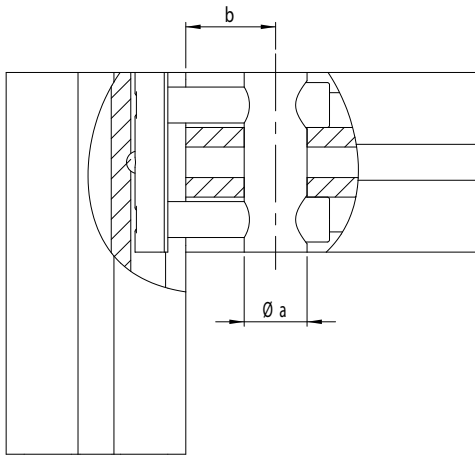
371020

Article no.:	371005
Profile	20x20 slot 5
Hole Ø	Ø 12mm
Distance (b)	11mm
Depth (c)	9 mm

Article no.:	371010
Profile	30x30 slot 6
Hole Ø	Ø 16mm
Distance (b)	15mm
Depth (c)	14 mm

Article no.:	371020
Profile	40x40 slot 8
Hole Ø	Ø 20mm
Distance (b)	21mm
Depth (c)	18 mm





PROFILE PROCESSING FOR BOLT CONNECTOR

slot 8

Article no.:	360009
Profile	40x40 Nut 8
Hole (Ø a)	Ø 14,1mm
Distance (b)	20mm

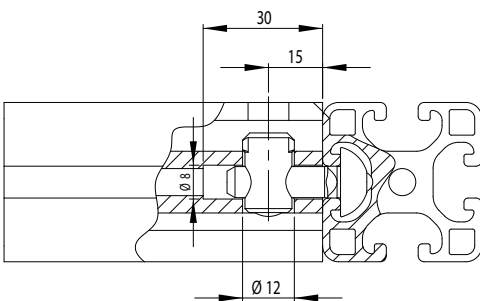


360009

Article no.:	360019
Profile	80x80 Nut 8 bzw. 40x80 Nut 8
Hole (Ø a)	Ø 14,1mm
Distance (b)	20mm



360019



QUICK CONNECTOR

with rotation lock

slot 8

Central connector	Article no.:	323050
Slot		8mm
Material		Steel galvanised



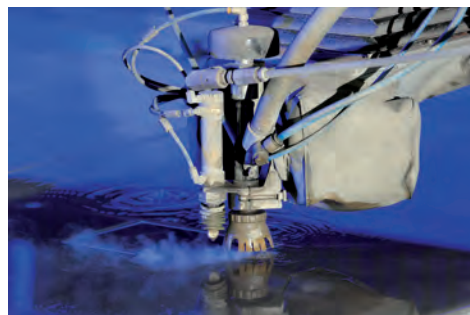


ITEM	DESIGNATION	ARTICLE NO.
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Cuts		
1	Saw cut up to & including 30x30	101010
2	Saw cut up to & including 60x60	101020
3	Saw cut up to & including 90x90	101030
4	Saw cut greater than 90x90	101040
5	Saw cut on mitre	101050

Holes		
6	Hole up to & including Ø 10.0	102010
7	Hole up to & including Ø 15.0	102020
8	Hole up to & including Ø 20.0	102030

Thread		
9	Thread M6	103009
10	Thread M8	103010
11	Thread M10	103012
12	Thread M12	103020
13	Thread M16	103030





EXTRUSION PROFILES PER DIN EN 12020-1

Alloy	AL Mg SI 0,5 F25
Material	No. 3.3206.72 (heat-hardened)
Mechanical data (values in pressing direction)	
Tensile strength Rm	min. 240 N/mm ²
Yield limit Rp 0.2	min. 190 N/mm ²
Breaking elongation A5	min. 10%
E module	approx. 70.000 N/mm ²
Brinell hardness	approx. 75 HB 2,5/187,5
Coefficient of linear expansion	23,8x10 ⁻⁶ /K
Surface per DIN 17611	E6/EV1- matt pickled and natural colour anodised
Layer thickness	approx. 10µm
Layer hardness	250-350 HV
Special colours on request Delivery length 6000mm (or special data in the catalogue)	



Profile tolerances

The dimension information is dependent on the production accuracy of the tools,
the tool wear and the production fluctuations.
Within a profile production batch deviations arise within the 1/100 range.

PROFILE TOLERANCES IN MM

Measurement range from - to	Tolerance ±
0 – 10	± 0,15
10 – 15	± 0,20
15 – 30	± 0,25
30 – 45	± 0,30
45 – 60	± 0,40
60 - 90	± 0,45
90 – 120	± 0,60
120 – 150	± 0,80
150 – 180	± 1,00
180 - 240	± 1,20

