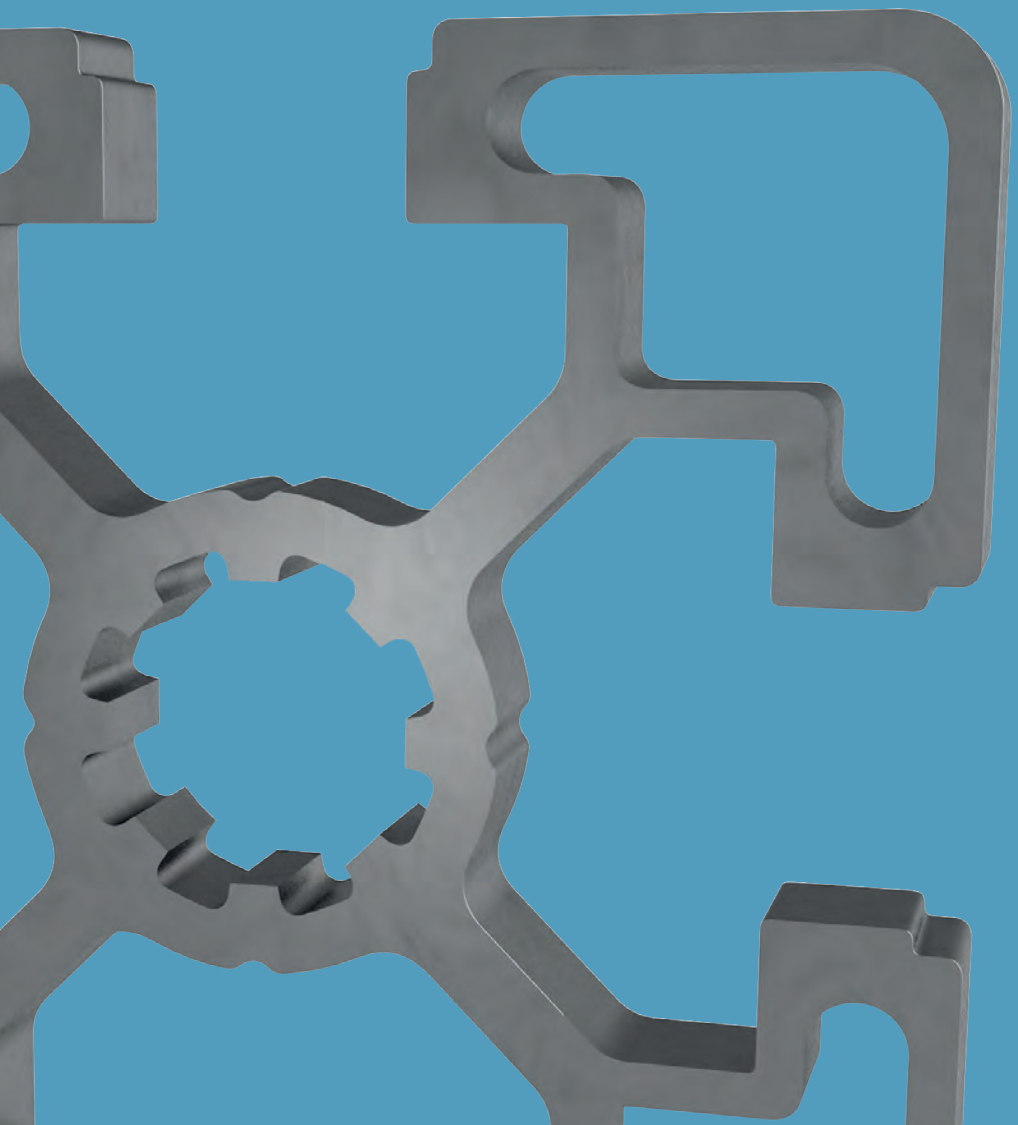
WMH GROUP GERMANY. QUALITÄT.

# ALUMINIUM PROFILE SYSTEM
## Series 45

With the basic grid 20mm (slot 6); 30mm (slot8), and 40mm, 45mm, 50mm, 60mm, 80mm, 90mm (slot 10). In addition to this, the complete connection technology and a large range of accessories.



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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.

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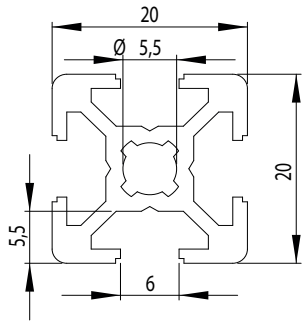
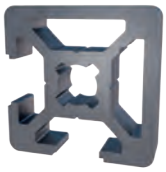
## PROFILE 20 × 20

slot 6

| Article no. | | | | | 201005 |
|---|---|---|---|---|---|
| Ix | 0,70 cm⁴ | Wx | 0,70 cm³ | Profile surface | 1,60 cm² |
| Iy | 0,70 cm⁴ | Wy | 0,70 cm³ | Mass | 0,44 kg/m |

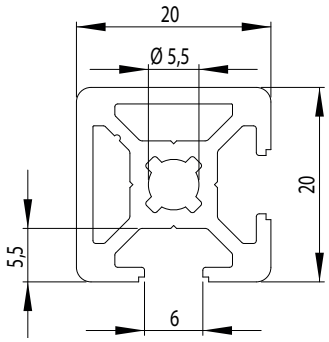


## PROFILE 20 × 20 2N90

slot 6

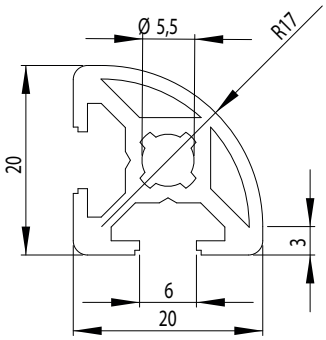
| Article no. | | | | | 201003 |
|---|---|---|---|---|---|
| Ix | 0,70 cm⁴ | Wx | 0,70 cm³ | Profile surface | 1,80 cm² |
| Iy | 0,70 cm⁴ | Wy | 0,70 cm³ | Mass | 0,50 kg/m |



## PROFILE 20 × 20 R

slot 6

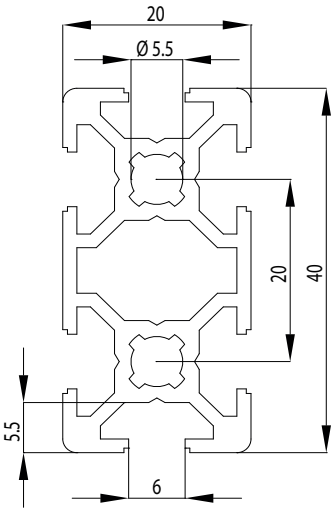
| Article no. | | | | | 201004 |
|---|---|---|---|---|---|
| Ix | 0,60 cm⁴ | Wx | 0,50 cm³ | Profile surface | 1,60 cm² |
| Iy | 0,60 cm⁴ | Wy | 0,50 cm³ | Mass | 0,40 kg/m |

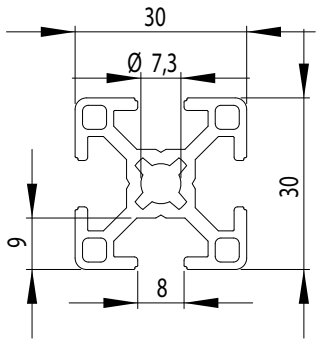


## PROFILE 20 × 40

slot 6

| Article no. | | | | | 201006 |
|---|---|---|---|---|---|
| Ix | 4,60 cm⁴ | Wx | 2,50 cm³ | Profile surface | 2,90 cm² |
| Iy | 1,20 cm⁴ | Wy | 1,40 cm³ | Mass | 0,80 kg/m |

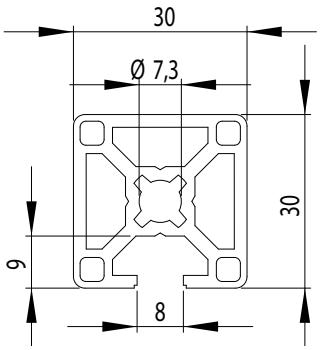





## PROFILE 30 × 30

slot 8

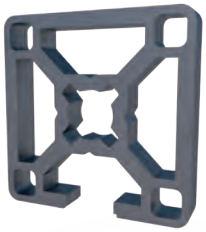
| Article no. | | | | | 201010 |
|---|---|---|---|---|---|
| Ix | 2,70 cm⁴ | Wx | 1,80 cm³ | Profile surface | 3,10 cm² |
| Iy | 2,70 cm⁴ | Wy | 1,80 cm³ | Mass | 0,80 kg/m |

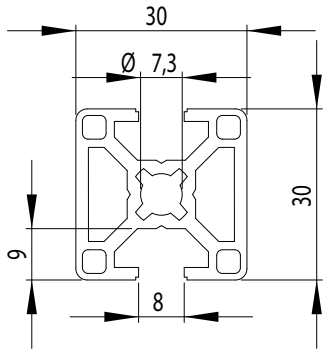



## PROFILE 30 × 30 1N

slot 8

| Article no. | | | | | 201014 |
|---|---|---|---|---|---|
| Ix | 2,70 cm⁴ | Wx | 1,80 cm³ | Profile surface | 3,10 cm² |
| Iy | 2,70 cm⁴ | Wy | 1,80 cm³ | Mass | 0,80 kg/m |

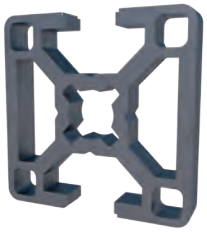


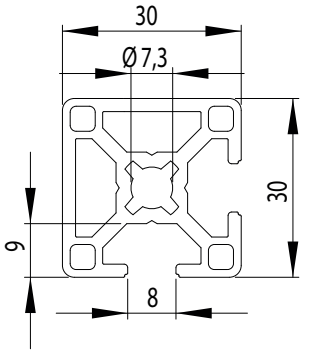



## PROFILE 30 × 30 2N 180

slot 8

| Article no.. | | | | | 201015 |
|---|---|---|---|---|---|
| Ix | 2,70 cm⁴ | Wx | 1,80 cm³ | Profile surface | 3,10 cm² |
| Iy | 2,70 cm⁴ | Wy | 1,80 cm³ | Mass | 0,80 kg/m |

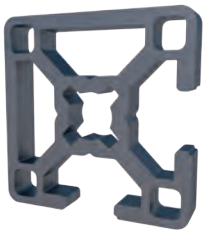


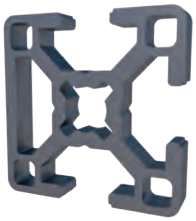



## PROFILE 30 × 30 2N 90

slot 8

| Article no. | | | | | 201012 |
|---|---|---|---|---|---|
| Ix | 2,70 cm⁴ | Wx | 1,80 cm³ | Profile surface | 3,10 cm² |
| Iy | 2,70 cm⁴ | Wy | 1,80 cm³ | Mass | 0,80 kg/m |

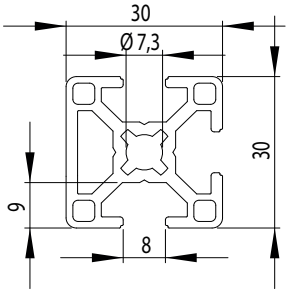


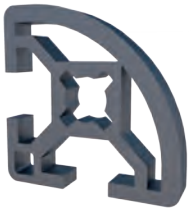


## PROFILE 30 × 30 3N

slot 8

| Article no. | | | | | 201013 |
|---|---|---|---|---|---|
| Ix | 2,70 cm⁴ | Wx | 1,80 cm³ | Profile surface | 3,10 cm² |
| Iy | 2,70 cm⁴ | Wy | 1,80 cm³ | Mass | 0,80 kg/m |

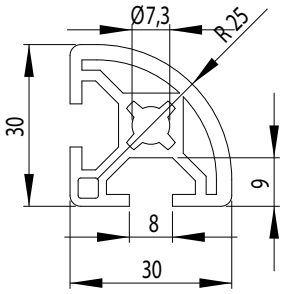


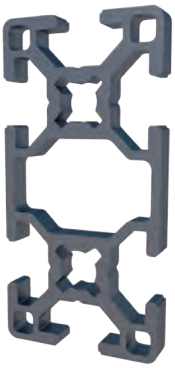



## PROFILE 30 × 30 R

slot 8

| Article no. | | | | | 201009 |
|---|---|---|---|---|---|
| Ix | 2,30 cm⁴ | Wx | 1,40 cm³ | Profile surface | 2,90 cm² |
| Iy | 2,30 cm⁴ | Wy | 1,40 cm³ | Mass | 0,80 kg/m |

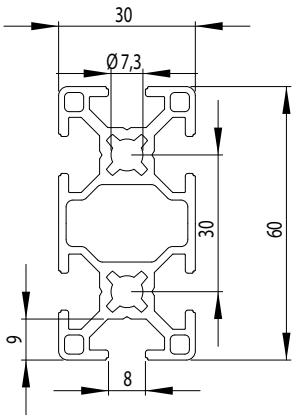


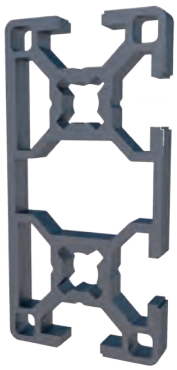



## PROFILE 30 × 60

slot 8

| Article no. | | | | | 201011 |
|---|---|---|---|---|---|
| Ix | 19,70 cm⁴ | Wx | 7,00 cm³ | Profile surface | 5,60 cm² |
| Iy | 5,10 cm⁴ | Wy | 3,90 cm³ | Mass | 1,50 kg/m |

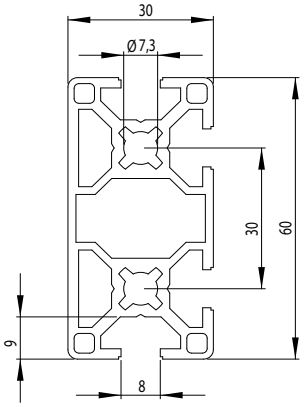


## PROFILE 30 × 60 4N

slot 8

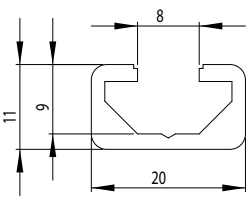
| Article no. | | | | | 201018 |
|---|---|---|---|---|---|
| Ix | 20,20 cm⁴ | Wx | 6,70 cm³ | Profile surface | 5,80 cm² |
| Iy | 5,50 cm⁴ | Wy | 3,80 cm³ | Mass | 1,60 kg/m |

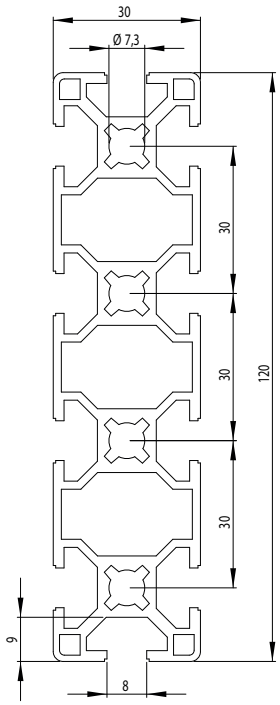


## PROFILE 11 × 20

slot 8

| Article no. | | | | | 201001 |
|---|---|---|---|---|---|
| Ix | 0,50 cm⁴ | Wx | 0,77 cm³ | Profile surface | 1,00 cm² |
| Iy | 0,10 cm⁴ | Wy | 0,37 cm³ | Mass | 0,30 kg/m |

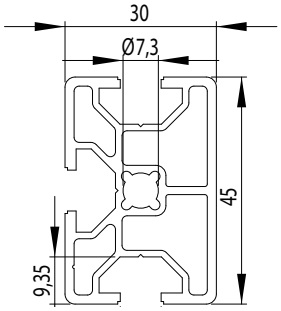





## PROFILE 30 × 120

slot 8

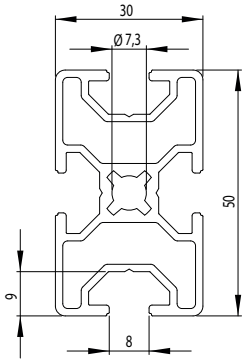
| Article no. | | | | | 201039 |
|---|---|---|---|---|---|
| Ix | 9,58 cm⁴ | Wx | 6,39 cm³ | Profile surface | 10,23 cm² |
| Iy | 137,77 cm⁴ | Wy | 22,96 cm³ | Mass | 2,70 kg/m |




## PROFILE 30 × 45

slot 8

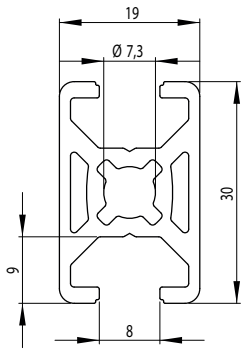
| Article no. | | | | | 201016 |
|---|---|---|---|---|---|
| Ix | 8,10 cm⁴ | Wx | 3,60 cm³ | Profile surface | 3,90 cm² |
| Iy | 3,90 cm⁴ | Wy | 2,50 cm³ | Mass | 1,10 kg/m |




## PROFILE 30 × 50

slot 8

| Article no. | | | | | 201043 |
|---|---|---|---|---|---|
| Ix | 4,25 cm⁴ | Wx | cm³ | Profile surface | 4,30 cm² |
| Iy | 10,27 cm⁴ | Wy | cm³ | Mass | 1,10 kg/m |




## PROFILE 19 × 30

slot 8

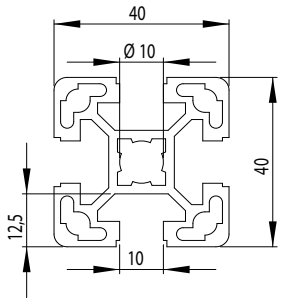
| Article no. | | | | | 201125 |
|---|---|---|---|---|---|
| Ix | 1,56 cm⁴ | Wx | 1,04 cm³ | Profile surface | 2,40 cm² |
| Iy | 1,10 cm⁴ | Wy | 1,15 cm³ | Mass | 0,62 kg/m |

## PROFILE 40 × 40L

slot 10

| Article no. | 201017 |
|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ix | 9,00 cm⁴ | Wx | 4,50 cm³ | Profile surface | 5,60 cm² |
| Iy | 9,00 cm⁴ | Wy | 4,50 cm³ | Mass | 1,50 kg/m |

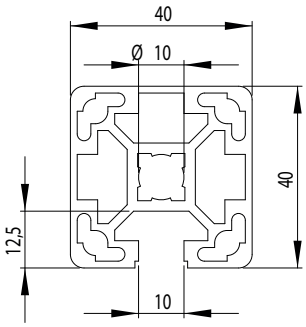


## PROFILE 40 × 40L 1N

slot 10

| Article no. | 201037 |
|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ix | 9,00 cm⁴ | Wx | 5,20 cm³ | Profile surface | 6,30 cm² |
| Iy | 9,00 cm⁴ | Wy | 5,20 cm³ | Mass | 1,70 kg/m |

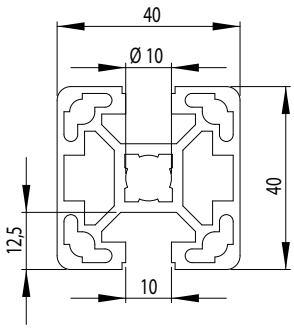


## PROFILE 40 × 40 2N 180

slot 10

| Article no. | 201034 |
|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ix | 9,00 cm⁴ | Wx | 4,50 cm³ | Profile surface | 5,60 cm² |
| Iy | 9,00 cm⁴ | Wy | 4,50 cm³ | Mass | 1,60 kg/m |

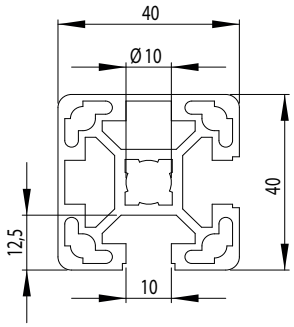


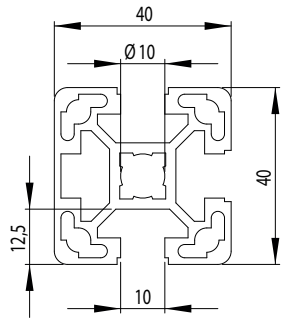
## PROFILE 40 × 40 L 2N90

slot 10

| Article no. | 201035 |
|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ix | 9,00 cm⁴ | Wx | 4,50 cm³ | Profile surface | 5,60 cm² |
| Iy | 9,00 cm⁴ | Wy | 4,50 cm³ | Mass | 1,60 kg/m |

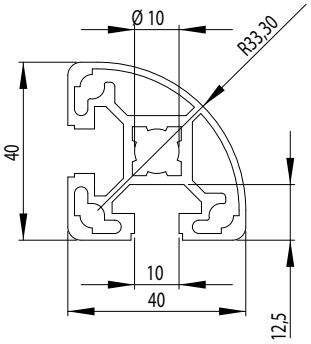





## PROFILE 40 × 40 L 3N

slot 10

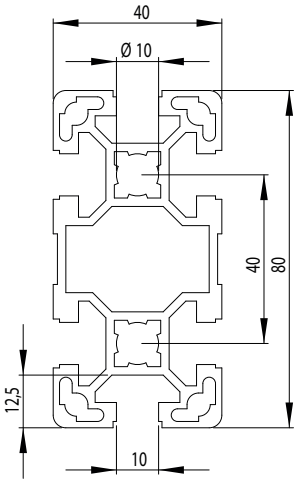
| Article no. | | | | | 201036 |
|---|---|---|---|---|---|
| Ix | 9,00 cm⁴ | Wx | 4,50 cm³ | Profile surface | 5,60 cm² |
| Iy | 9,00 cm⁴ | Wy | 4,50 cm³ | Mass | 1,50 kg/m |




## PROFILE 40 × 40L R

slot 10

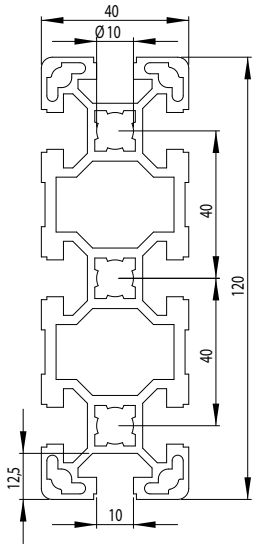
| Article no. | | | | | 201033 |
|---|---|---|---|---|---|
| Ix | 7,20 cm⁴ | Wx | 3,60 cm³ | Profile surface | 5,00 cm² |
| Iy | 7,20 cm⁴ | Wy | 3,60 cm³ | Mass | 1,30 kg/m |




## PROFILE 40 × 80 L

slot 10

| Article no. | | | | | 201019 |
|---|---|---|---|---|---|
| Ix | 63,40 cm⁴ | Wx | 15,90 cm³ | Profile surface | 9,90 cm² |
| Iy | 17,30 cm⁴ | Wy | 8,70 cm³ | Mass | 2,70 kg/m |




## PROFILE 40 × 120 L

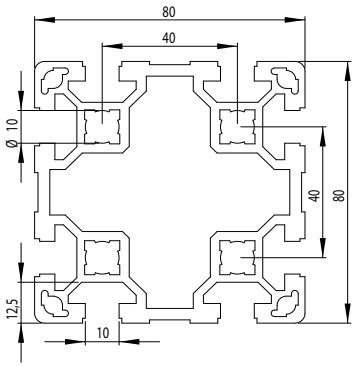
slot 10

| Article no. | | | | | 201038 |
|---|---|---|---|---|---|
| Ix | 203,20 cm⁴ | Wx | 33,90 cm³ | Profile surface | 15,50 cm² |
| Iy | 27,80 cm⁴ | Wy | 13,90 cm³ | Mass | 4,20 kg/m |

## PROFILE 80 × 80L

slot 10

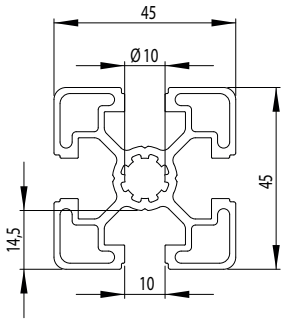
| Article no. . | | | | | 201077 |
|---|---|---|---|---|---|
| Ix | 132,10 cm$^4$ | Wx | 33,00 cm³ | Profile surface | 18,20 cm² |
| Iy | 132,10 cm$^4$ | Wy | 33,00 cm³ | Mass | 4,90 kg/m |



## PROFILE 45 × 45L

slot 10

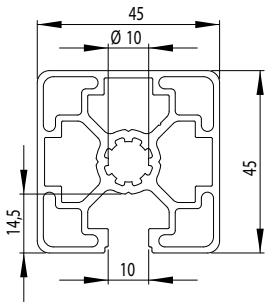
| Article no. | | | | | 201020 |
|---|---|---|---|---|---|
| Ix | 11,00 cm$^4$ | Wx | 4,80 cm³ | Profile surface | 5,70 cm² |
| Iy | 11,00 cm$^4$ | Wy | 4,80 cm³ | Mass | 1,60 kg/m |



## PROFILE 45 × 45 L 1N

slot 10

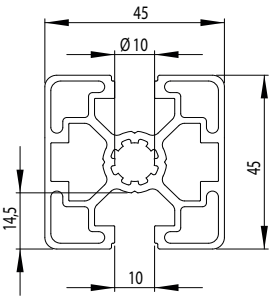
| Article no. | | | | | 201024 |
|---|---|---|---|---|---|
| Ix | 11,00 cm$^4$ | Wx | 4,80 cm³ | Profile surface | 5,70 cm² |
| Iy | 11,00 cm$^4$ | Wy | 4,80 cm³ | Mass | 1,60 kg/m |

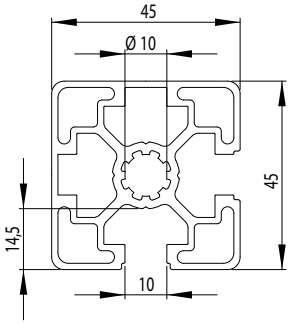


## PROFILE 45 × 45 L 2N180

slot 10

| Article no. | | | | | 201023 |
|---|---|---|---|---|---|
| Ix | 11,00 cm$^4$ | Wx | 4,80 cm³ | Profile surface | 5,70 cm² |
| Iy | 11,00 cm$^4$ | Wy | 4,80 cm³ | Mass | 1,60 kg/m |

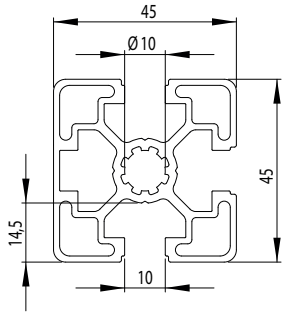





## PROFILE 45 × 45 L 2N90

slot 10

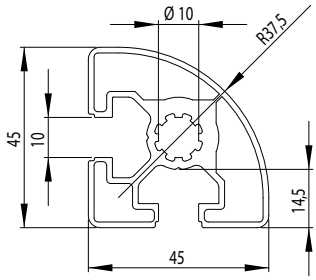
| Article no. | | | | | 201022 |
|---|---|---|---|---|---|
| Ix | 11,00 cm$^4$ | Wx | 4,80 cm³ | Profile surface | 5,70 cm² |
| Iy | 11,00 cm$^4$ | Wy | 4,80 cm³ | Mass | 1,60 kg/m |




## PROFILE 45 × 45L 3N

slot 10

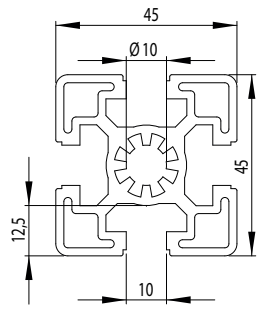
| Article no. | | | | | 201021 |
|---|---|---|---|---|---|
| Ix | 11,00 cm$^4$ | Wx | 4,80 cm³ | Profile surface | 5,70 cm² |
| Iy | 11,00 cm$^4$ | Wy | 4,80 cm³ | Mass | 1,60 kg/m |




## PROFILE 45 × 45 L R

slot 10

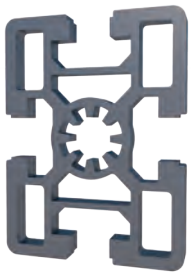
| Article no. | | | | | 201025 |
|---|---|---|---|---|---|
| Ix | 8,50 cm$^4$ | Wx | 5,00 cm³ | Profile surface | 4,90 cm² |
| Iy | 8,50 cm$^4$ | Wy | 5,00 cm³ | Mass | 1,40 kg/m |




## PROFILE 45 × 45

slot 10

| Article no. | | | | | 201030 |
|---|---|---|---|---|---|
| Ix | 14,00 cm$^4$ | Wx | 6,10 cm³ | Profile surface | 7,50 cm² |
| Iy | 14,00 cm$^4$ | Wy | 6,10 cm³ | Mass | 2,00 kg/m |

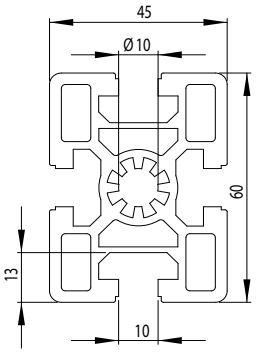


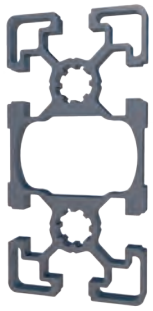
## PROFILE 45 × 60

slot 10

| Article no. | 201040 |
|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ix | 37,20 cm⁴ | Wx | 12,40 cm³ | Profile surface | 11,00 cm² |
| Iy | 22,70 cm⁴ | Wy | 10,10 cm³ | Mass | 3,00 kg/m |



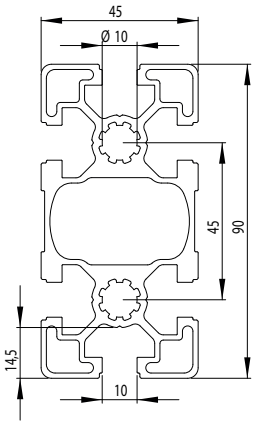



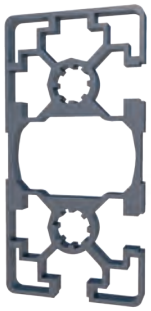
## PROFILE 45 × 90 L

slot10

| Article no. | 201060 |
|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ix | 81,90 cm⁴ | Wx | 18,20 cm³ | Profile surface | 11,20 cm² |
| Iy | 23,60 cm⁴ | Wy | 10,50 cm³ | Mass | 3,10 kg/m |



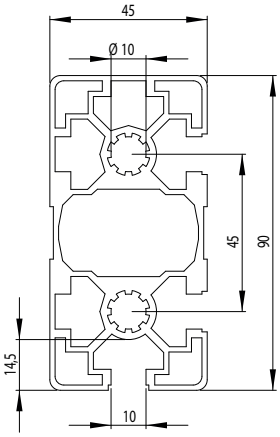



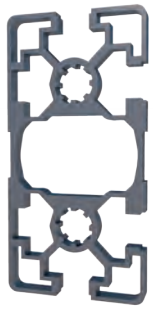
## PROFILE 45 × 90 L 3N90

slot 10

| Article no. | 201065 |
|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ix | 90,40 cm⁴ | Wx | 19,80 cm³ | Profile surface | 11,80 cm² |
| Iy | 25,80 cm⁴ | Wy | 11,10 cm³ | Mass | 3,20 kg/m |



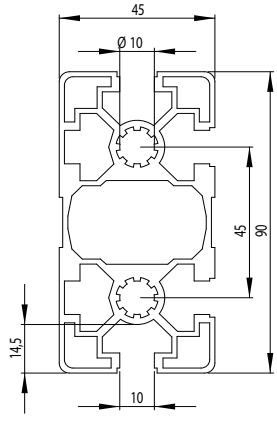



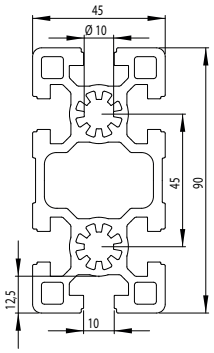
## PROFILE 45 × 90 L 4N90

slot 10

| Article no. | 201064 |
|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ix | 86,80 cm⁴ | Wx | 19,30 cm³ | Profile surface | 11,90 cm² |
| Iy | 25,80 cm⁴ | Wy | 11,10 cm³ | Mass | 3,20 kg/m |

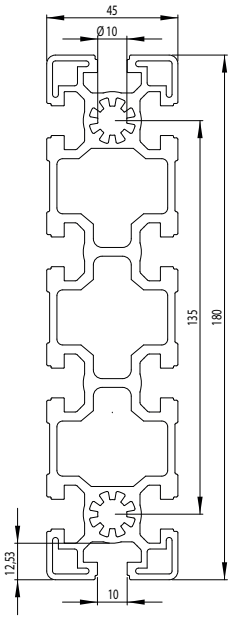





## PROFILE 45 × 90

slot 10

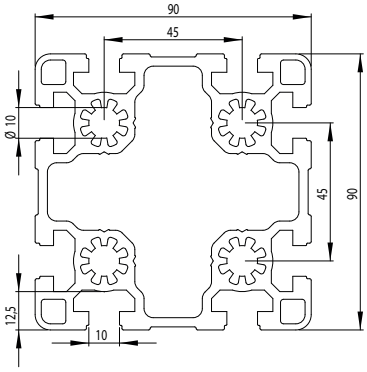
| Article no. | | | | | 201070 |
|---|---|---|---|---|---|
| Ix | 125,00 cm⁴ | Wx | 27,70 cm³ | Profile surface | 15,60 cm² |
| Iy | 32,80 cm⁴ | Wy | 14,60 cm³ | Mass | 4,20 kg/m |




## PROFILE 45 × 180

slot 10

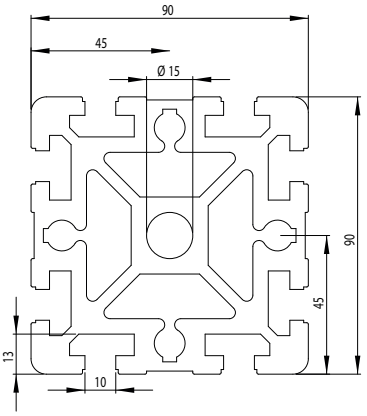
| Article no. | | | | | 201072 |
|---|---|---|---|---|---|
| Ix | 125,00 cm⁴ | Wx | 27,70 cm³ | Profile surface | 15,60 cm² |
| Iy | 32,80 cm⁴ | Wy | 14,60 cm³ | Mass | 4,20 kg/m |




## PROFILE 90 × 90L

slot 10

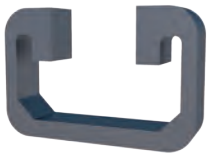
| Article no. | | | | | 201080 |
|---|---|---|---|---|---|
| Ix | 210,00 cm⁴ | Wx | 46,40 cm³ | Profile surface | 23,60 cm² |
| Iy | 210,00 cm⁴ | Wy | 46,40 cm³ | Mass | 6,30 kg/m |




## PROFILE 90 × 90

slot 10

| Article no. | | | | | 201090 |
|---|---|---|---|---|---|
| Ix | 299,80 cm⁴ | Wx | 67,00 cm³ | Profile surface | 39,50 cm² |
| Iy | 299,80 cm⁴ | Wy | 67,00 cm³ | Mass | 10,50 kg/m |

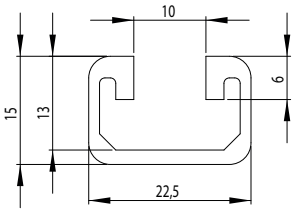


## PROFILE 15 × 22,5

slot 10

| Article no. | 201027 |
|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ix | 0.80 cm⁴ | Wx | 0,90 cm³ | Profile surface | 1,30 cm² |
| Iy | 0,30 cm⁴ | Wy | 0,60 cm³ | Mass | 0,30 kg/m |

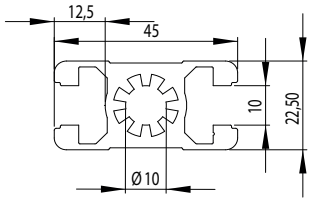


## PROFILE 22,5 × 45

slot 10

| Article no. | 201028 |
|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ix | 7,10 cm⁴ | Wx | 3,60 cm³ | Profile surface | 4,60 cm² |
| Iy | 2,90 cm⁴ | Wy | 2,60 cm³ | Mass | 1,30 kg/m |

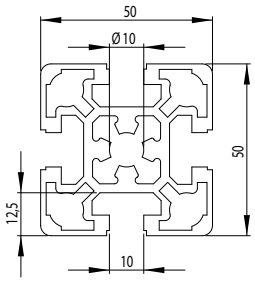


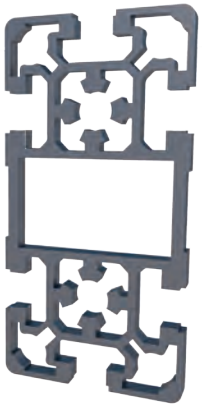
## PROFILE 50 × 50 L

slot 10

| Article no. | 201045 |
|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ix | 21,20 cm⁴ | Wx | 8,50 cm³ | Profile surface | 9,30 cm² |
| Iy | 21,20 cm⁴ | Wy | 8,50 cm³ | Mass | 2,50 kg/m |



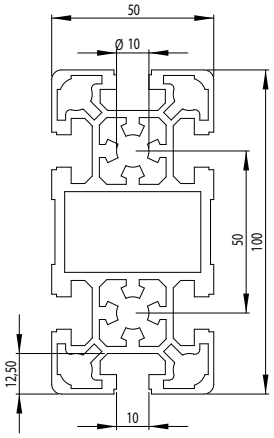



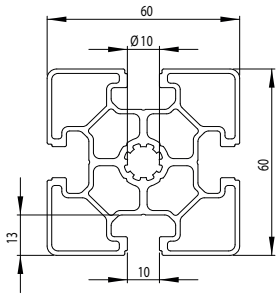
## PROFILE 50 × 100 L

slot 10

| Article no. | 201048 |
|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ix | 162,80 cm⁴ | Wx | 32,60 cm³ | Profile surface | 17,20 cm² |
| Iy | 42,60 cm⁴ | Wy | 17,00 cm³ | Mass | 4,50 kg/m |

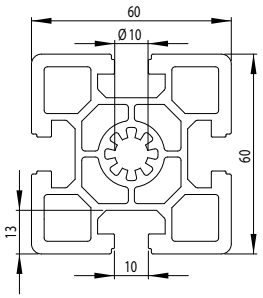





## PROFILE 60 × 60L

slot 10

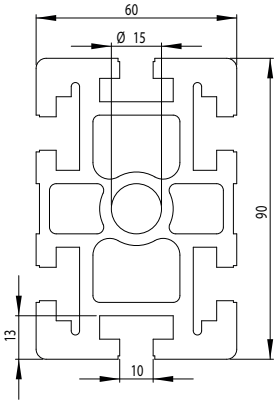
| Article no. | | | | | 201050 |
|---|---|---|---|---|---|
| Ix | 32,40 cm⁴ | Wx | 10,80 cm³ | Profile surface | 9,60 cm² |
| Iy | 32,40 cm⁴ | Wy | 10,80 cm³ | Mass | 2,60 kg/m |




## PROFILE 60 × 60

slot 10

| Article no. | | | | | 201051 |
|---|---|---|---|---|---|
| Ix | 52,00 cm⁴ | Wx | 17,30 cm³ | Profile surface | 14,40 cm² |
| Iy | 52,00 cm⁴ | Wy | 17,30 cm³ | Mass | 3,90 kg/m |




## PROFILE 60 × 90

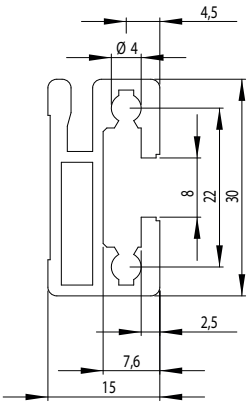
slot 10

| Article no. | | | | | 201075 |
|---|---|---|---|---|---|
| Ix | 212,40 cm⁴ | Wx | 47,20 cm³ | Profile surface | 25,30 cm² |
| Iy | 88,50 cm⁴ | Wy | 29,50 cm³ | Mass | 6,80 kg/m |

## SUSPENSION PROFILE 15 × 30

slot 8

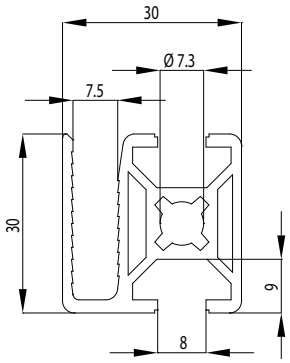
| Article no. | | | | | 201002 |
|---|---|---|---|---|---|
| Ix | 2,06 cm⁴ | Wx | 2,68 cm³ | Profile surface | 2,03 cm² |
| Iy | 0,48 cm⁴ | Wy | 0,32 cm³ | Mass | 0,55 kg/m |

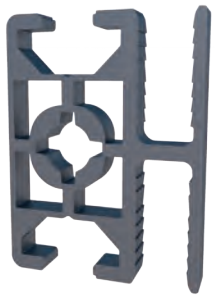


## PROFILE 30 × 30 WG40

slot 8

| Article no. | | | | | 201007 |
|---|---|---|---|---|---|
| Ix | 2,40 cm⁴ | Wx | 1,50 cm³ | Profile surface | 3,20 cm² |
| Iy | 2,90 cm⁴ | Wy | 1,80 cm³ | Mass | 0,90 kg/m |

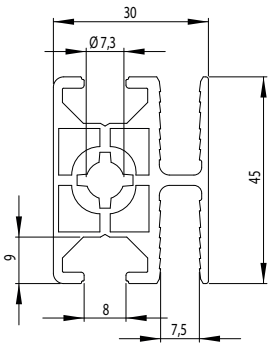


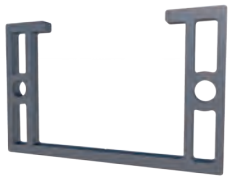



## PROFILE 30 × 45 WG40

slot 8

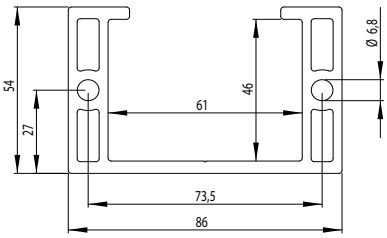
| Article no. | | | | | 201008 |
|---|---|---|---|---|---|
| Ix | 6,90 cm⁴ | Wx | 4,30 cm³ | Profile surface | 4,50 cm² |
| Iy | 4,10 cm⁴ | Wy | 1,80 cm³ | Mass | 1,20 kg/m |

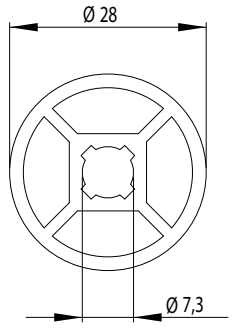


## PROFILE 54 × 86

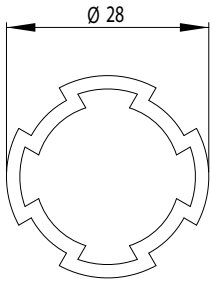
| Article no. | | | | | 201120 |
|---|---|---|---|---|---|
| | | | | Profile surface | 11,13 cm² |
| | | | | Mass | 3,00 kg/m |





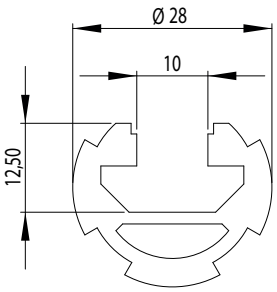

## ROUND TUBE Ø 28

| Article no. | | | | | 808002 |
|---|---|---|---|---|---|
| Ix | 1,53 cm⁴ | Wx | 1,10 cm³ | Profile surface | 2,35 cm² |
| Iy | 1,53 cm⁴ | Wy | 1,10 cm³ | Mass | 0,68 kg/m |




## ROUND TUBE Ø 28 L

| Article no. | | | | | 808003 |
|---|---|---|---|---|---|
| Ix | 1,33 cm⁴ | Wx | 0,95 cm³ | Profile surface | 1,80 cm² |
| Iy | 1,33 cm⁴ | Wy | 0,95 cm³ | Mass | 0,48 kg/m |




## ROUND TUBE Ø 28 L N10

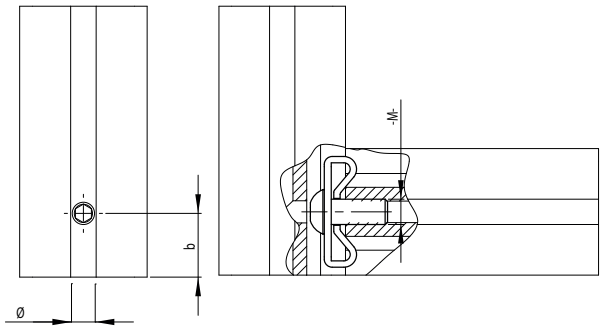
slot 10

| Article no. | | | | | 808004 |
|---|---|---|---|---|---|
| Ix | 1,17 cm⁴ | Wx | 0,84 cm³ | Profile surface | 2,63 cm² |
| Iy | 1,97 cm⁴ | Wy | 1,41 cm³ | Mass | 0,71 kg/m |

## PROFILE PROCESSING FOR CENTRING PLATE KIT

slot 8

| | |
|---|---|
| **Article no.:** | **330040** |
| **Profile** | 30x30 slot 8 |
| **Hole Ø** | Ø 7mm |
| **Distance (b)** | 15mm |
| **Thread** | M8 |




## PROFILE PROCESSING FOR CENTRAL SCREW

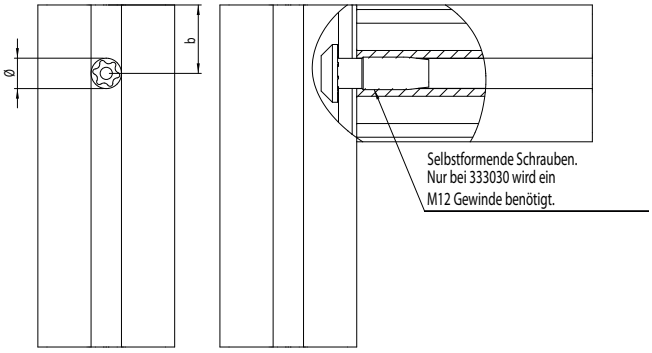
s6|s8

330020 (TX50)

| | |
|---|---|
| **Article no.:** | **330005** |
| **Profile** | slot 6 |
| **Hole Ø** | Ø 5,8mm |
| **Distance (b)** | 10mm |

| | |
|---|---|
| **Article no.:** | **330010** |
| **Profile** | slot 8 |
| **Hole Ø** | Ø 7,8mm |
| **Distance (b)** | 15mm |

| | |
|---|---|
| **Article no.:** | **330020 \| 330030** |
| **Profile** | slot 10 |
| **Hole Ø** | Ø 9,8mm |
| **Distance (b)** | 22,5mm |
| **Thread (330030)** | M12 |



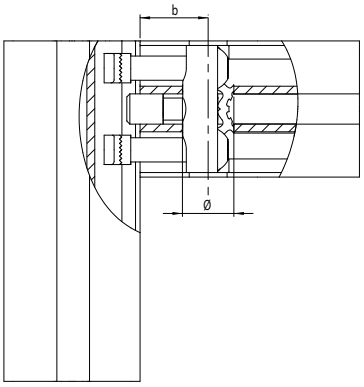

## PROFILE PROCESSING FOR BOLT CONNECTOR

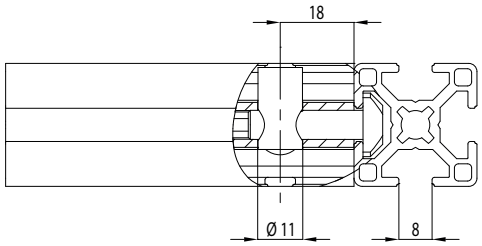
slot 8|slot 10

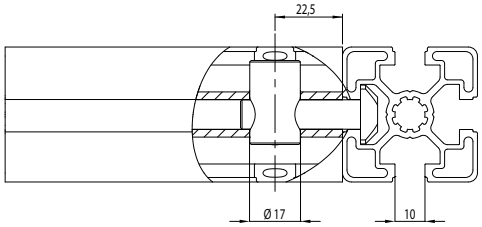
330021

| | |
|---|---|
| **Article no.:** | **322015** |
| **Profile** | 30x30 slot 8 |
| **Hole Ø** | Ø 11mm |
| **Distance (b)** | 18mm |

| | |
|---|---|
| **Article no.:** | **322019**<br>**322021**<br>**322031**<br>**322039**<br>**322041** |
| **Profile** | slot 10 |
| **Hole Ø** | Ø 17mm |
| **Distance (b)** | 22,5mm |






## PROCESSING FOR QUICK CONNECTOR slot 8|slot 10

| | |
|---|---|
| **Article no.:** | **323030**<br>**323040** |
| **Profile** | 30x30 slot 8 |
| **Hole Ø** | Ø 11mm |
| **Distance** | 18mm |

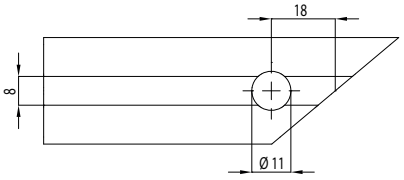
(vertical, 0°)

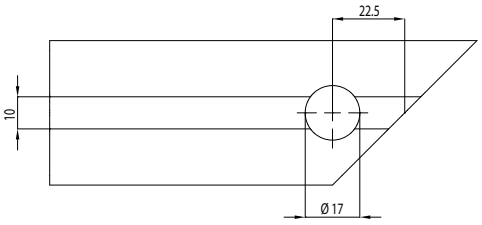
| | |
|---|---|
| **Article no.:** | **330025**<br>**323060**<br>**323070** |
| **Profile** | slot10 |
| **Hole Ø** | Ø 17mm |
| **Distance** | 22,5mm |

(vertical, 0°)

(horizontal, 90°)

323025



323024

323026

## PROFILE PROCESSING FOR QUICK CONNECTOR BENDING AND ARTICULATED CONNECTOR

| | |
|---|---|
| **Article no.:** | **323042**<br>**323043** |
| **Profile** | slot 8 |
| **Hole Ø** | Ø 11mm |
| **Distance** | 18mm |

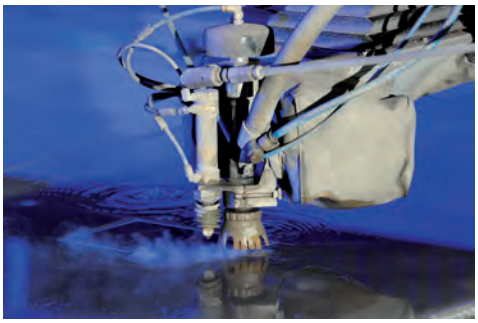
(end-to-end)

| | |
|---|---|
| **Article no.:** | **330022**<br>**323023**<br>**323024**<br>**323026** |
| **Profile** | slot 10 |
| **Hole Ø** | Ø 17mm |
| **Distance** | 22,5mm |

(end-to-side)

(end-to-side
end-to-end)

| ITEM | DESIGNATION | ARTICLE NO. |
|---|---|---|
| | **Cuts** | |
| 1 | Saw cut for small sized cross sections | 101010 |
| 2 | Saw cut for average sized cross sections | 101020 |
| 3 | Saw cut for large sized cross sections | 101030 |
| 4 | Saw cut for extra-large sized cross sections | 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 M12 | 103020 |
| 12 | 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/mm² |
| Yield limit Rp 0.2 | min. 190 N/mm² |
| Breaking elongation A5 | min. 10% |
| E module | approx. 70.000 N/mm² |
| 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<br>Delivery length 6000mm<br>(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 |