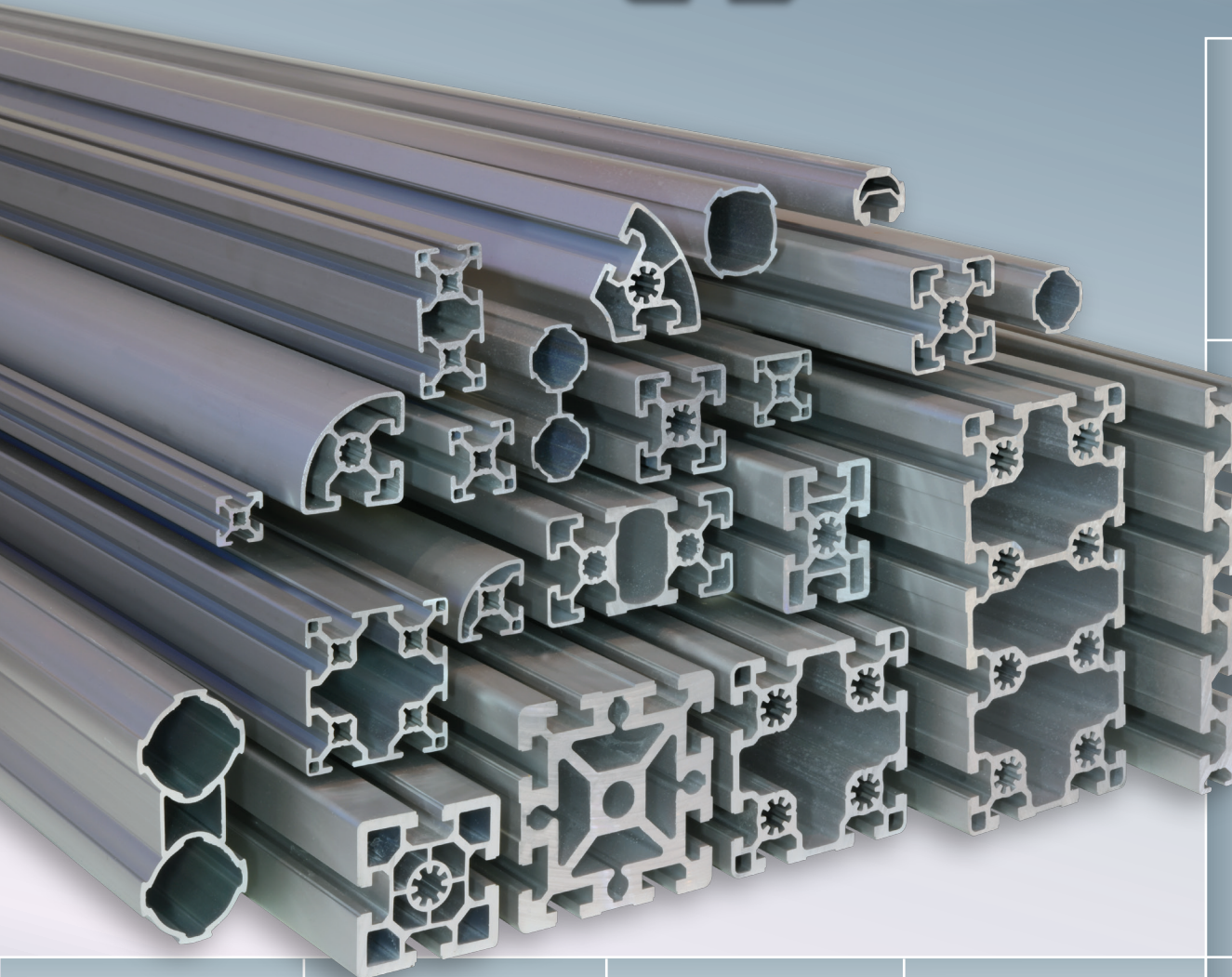
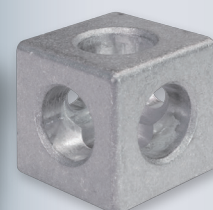


lean frame



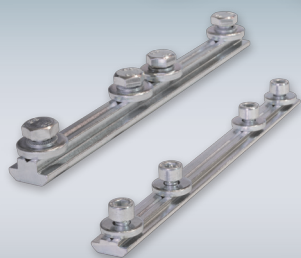
Foundation Feet



Corner Connectors



Door Components



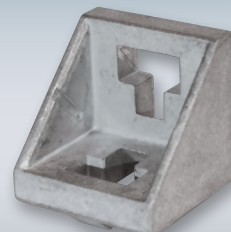
End-to-End Connectors



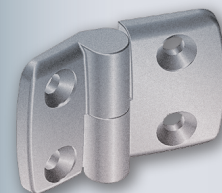
T-Slot Fasteners



90° Connectors



Gussets



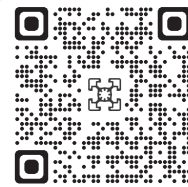
Hinges

Profile and Connectors "Metric B" Series

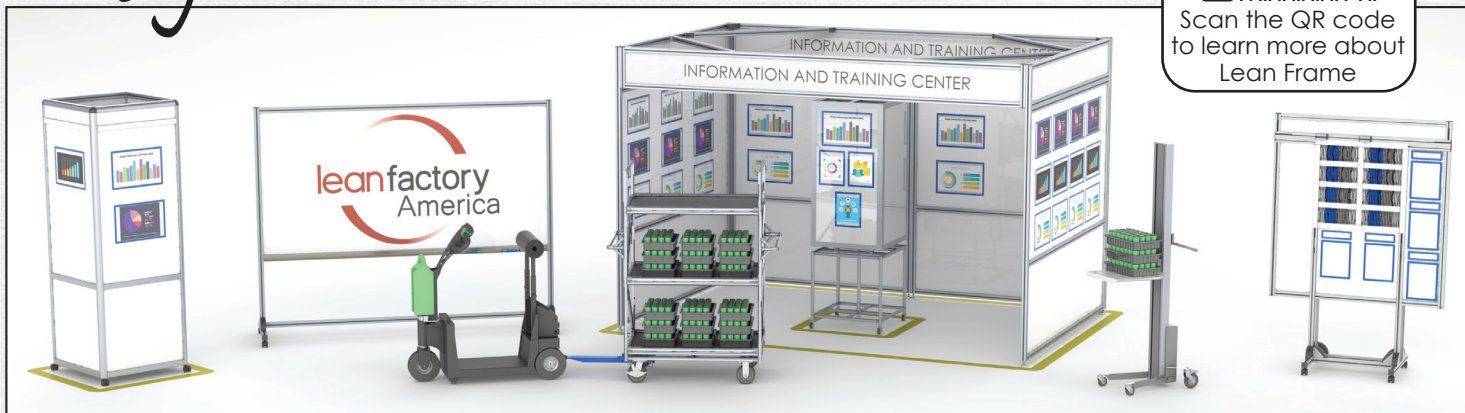
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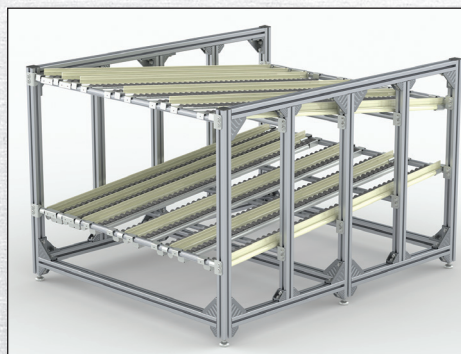
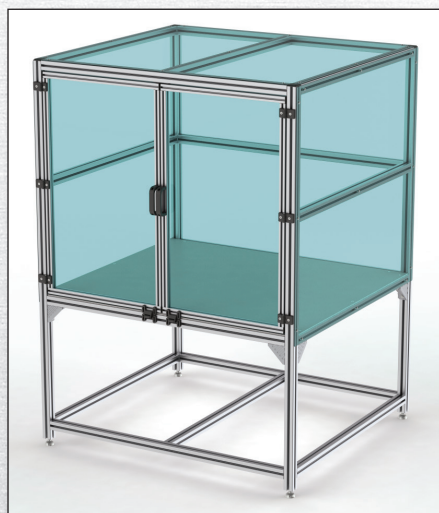
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- Profiles are environmentally friendly and recyclable
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Industry Specialties

- Ergonomics
- Automation
- Lean Manufacturing
- Fabrication
- Material Handling
- Guarding/Enclosures
- 5S/Visual Management



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The aluminum alloy EN AW 6063 or equivalent used in the extruded aluminum profiles is weatherproof and resistant to many chemicals.

All profiles are anodized and are compatible in series-specific modular dimensions and may be combined as required. Within the series, the uniform grid size allows any combination of the profiles. See Profile Modular Dimensions on Page 3.

With anodization, the profiles become permanently scratch-resistant and protected against corrosion. All profiles are constructed in such a way that the highest possible rigidity is attained in proportion to the material used.

All profiles are delivered with a guaranteed usable length of 2,000 mm, 3,000 mm or 6,000 mm with an extra end length of up to 100 mm. This is based on the electrolytic surface contact points at both profile ends which is required for the anodizing process.

All profiles are functionally reusable and are completely environmentally friendly and recyclable.

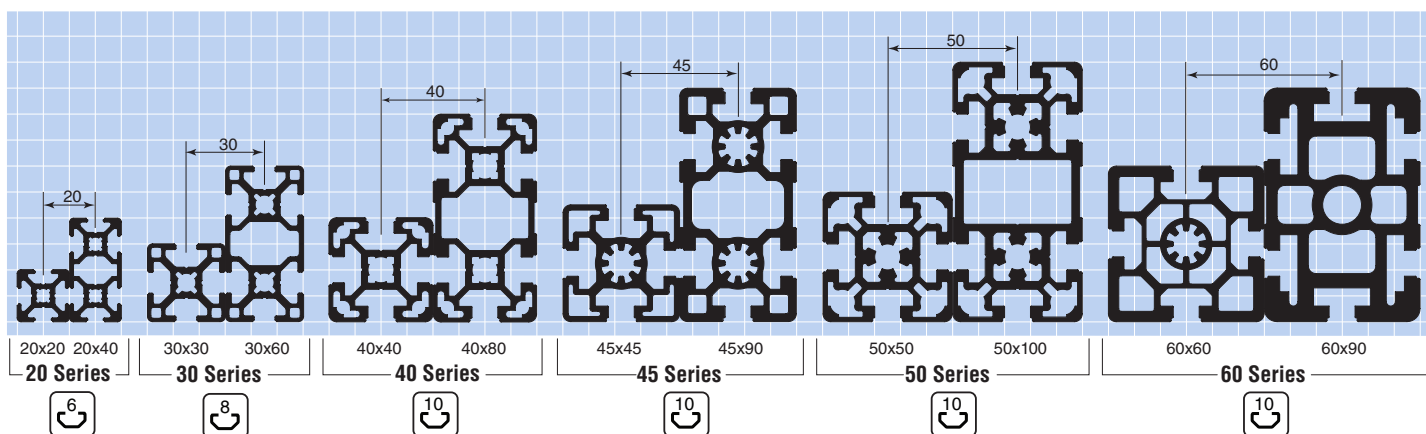
Technical data for the profiles	
EN AW – 6063 T6	Material designation according to DIN EN 573
Rm	245 N/ mm ² Minimum tensile strength Rm
Rp 0.2	195 N/mm ² Proof stress in direction of pressure
A5	10% Ductile yield
A10	8% Ductile yield
E	Approx. 70,000 N/mm ² Modulus of elasticity
HB	Approx. 75 Brinell hardness
α	23.4 x 10 ⁻⁶ 1/K Longitudinal expansion coefficient
Tolerances	DIN EN 12020-2
Anodizing process	E6 CO
Thickness of layer	10 - 15µm

Metric / US Conversion Chart			
Measurement	Multiply	by	to get
Linear	millimeters (mm)	0.03937	inches
	inches	25.4	millimeters (mm)
	meters	3.2808	feet
	feet	0.3048	meters
Area	centimeters ² (cm ²)	0.155	inches ²
	inches ²	6.4516	centimeters ² (cm ²)
Mass	kilograms (kg)	2.2046	pounds
	pounds	0.4536	kilograms (kg)
Moment of inertia	centimeters ⁴ (cm ⁴)	0.02403	inches ⁴
	inches ⁴	41.623	centimeters ⁴ (cm ⁴)
Moment of resistance	centimeters ³ (cm ³)	0.06102	inches ³
	inches ³	16.387	centimeters ³ (cm ³)

Profile T-slot Size

20 mm Profile	30 mm Profile	40, 45, 50, 60, 80, 90 mm Profile
		
6 mm T-slot	8 mm T-slot	10 mm T-slot

Profile Modular Dimensions



Legend	Description
	Machining Required
	Electrostatic Discharge Safe
	Stainless Steel
  	Indicates T-slot size the Profile, Connector, Fastener or Accessory is designed to be used with.
	T-slot STOP
	Swivel-In
	Slide-In
Part Number/ /S	/S = Single Profile or Item
Part Number/ /L _ _ _ _	/L = Specify Cut Length
$\geq$	Greater Than or Equal To, When Specifying Cut Length
$\leq$	Less Than or Equal to, When Specifying Cut Length

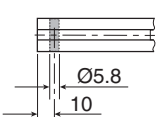
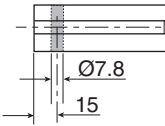
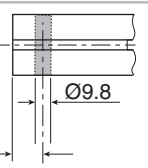
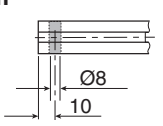
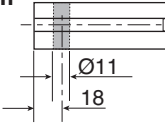
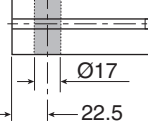
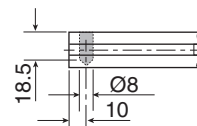
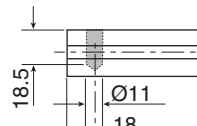
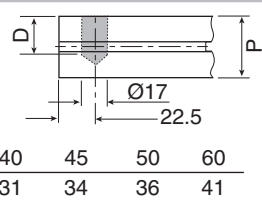
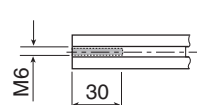
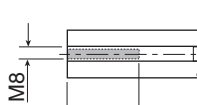
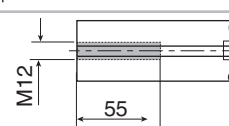
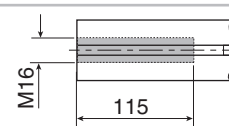
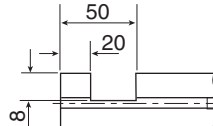
Profile Machining

1

Minimum Profile Length (mm) for Standard Profile Finishing on One or Both Ends

6					8					10						
-	Tap M6	Drill 5.8	Drill 8	Blind Hole Drill 8	-	Tap M8	Drill 7.8	Drill 11	Blind Hole Drill 11	-	Tap M12	Tap M16	Drill 9.8	Drill 17	Blind Hole Drill 17	Mill
-	50	50	50	50	-	50	50	50	50	-	50	60	120	50	60	60
Tap M6	50	70	50	70	Tap M8	50	80	62	70	Tap M12	60	110	180	90	60	110
Drill 5.8	50	50	50	50	Drill 7.8	50	62	60	50	Tap M16	120	180	240	150	170	170
Drill 8	50	50	50	50	Drill 11	50	70	50	60	Drill 9.8	50	90	150	80	70	90
Blind Hole Drill 8	50	50	50	50	Blind Hole Drill 11	50	70	50	60	Drill 17	60	90	170	70	80	90
										Blind Hole Drill 17	60	90	170	70	80	90
										Mill	60	110	170	90	90	80

Standard Profile Machining Requirements for Various Connectors

6			8			10			Machining Required
Drill 5.8 mm			Drill 7.8 mm			Drill 9.8 mm			Through-hole for 90° connections with connecting screw
Drill 8 mm			Drill 11 mm			Drill 17 mm			Through-hole for bolt connectors and quick connectors
Blind Hole Drill 8 mm			Blind Hole Drill 11 mm			Blind Hole Drill 17 mm			Blind hole for longitudinal end connectors and quick connectors in closed profiles
Tap M6			Tap M8			Tap M12			Threads in all core holes for accessories
						Tap M16			
						Mill			Standard Milling for cross connectors

Profile T-slot Loading Capacity

Static tensile loading capacity limit of the profile T-slot (start of visible permanent plastic deformation on the outer surface of the profile) using connectors with the largest thread diameter.

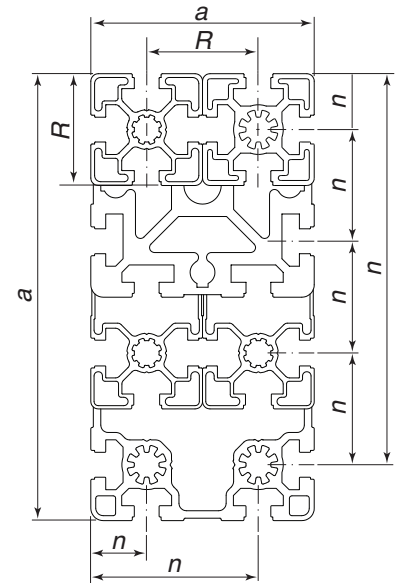
T-slot	Profile Size	T-bolt	T-nut	Connecting-screw	Swivel-In-T-slot nut	T-slot nut
6	20 Series		1700 N	2000 N		3000 N
8	30 Series	4000 N	4000 N	5000 N		6300 N
10	40L Series	7000 N	7200 N	10000 N	12000 N	12500 N
10	45L Series	7000 N	7000 N	10000 N	10000 N	12500 N
10	45, 60, 90L Series	12000 N	12000 N	15000 N	13000 N	17000 N
10	60x90, 90x90, 90x180 Series	18000 N	18000 N	22000N	18000N	24000N

All values have been determined exemplarily by physical pull-out experiments.

Safety factors have not been applied.

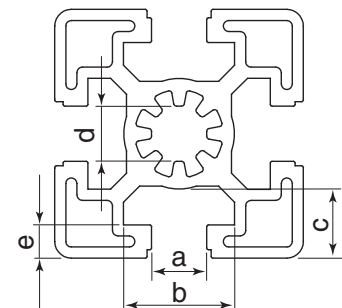
All values are ultimate values and the appropriate safety factors have to be applied.

Edge length of profile			Tolerances
a [mm]			Sense of proportion a respectively
at		to	T-slot Location (n) ± [mm]
0		20	0.15
20		30	0.20
	40		0.60
40		60	0.30
	80		0.80
80		100	0.40
	120		1.00



T-slot Tolerance	6	8	10
a	6.0 +0.3/-0	8.0 +0.3/-0	10.0 +0.4/-0
b	12 ±0.2	16.5 ±0.2	20.1 ±0.25
c	5.5 ±0.15	9.0 ±0.15	12.5 ±0.15*
d	5.5 +0.2/-0.1	7.3 +0.2/-0.1	6.0 ±0.15
e	1.5 ±0.15	2.2 ±0.15	10.0 ±0.15

*max. 14.5 ± 0.15 for 45x45L



Profile Technical Specifications

1

T-slot	Profile Size	Moment of Inertia		Section Modulus		Mass	Profile Surface	Page
		I _x (cm ⁴)	I _y (cm ⁴)	W _x (cm ³)	W _y (cm ³)	G (kg/m)	A (cm ²)	
6	20x20	0.68	0.68	0.68	0.68	0.44	1.64	9
6	20x20 3N	0.75	0.67	0.71	0.67	0.46	1.72	9
6	20x20 2NE	0.76	0.76	0.72	0.72	0.49	1.83	9
6	20x20 2NP	0.68	0.84	0.68	0.84	0.49	1.83	9
6	20R90 (RADIUS)	0.58	0.58	0.55	0.55	0.44	1.62	10
6	20x40	4.61	1.20	2.31	1.20	0.77	2.87	10
8	30x30	2.77	2.77	1.85	1.85	0.85	3.14	11
8	30x30 3N	3.10	2.78	1.97	1.85	0.90	3.32	11
8	30x30 2NE	3.11	3.11	1.98	1.98	0.95	3.50	11
8	30x30 2NP	3.48	2.79	2.32	1.86	0.95	3.51	12
8	30x30 1N	3.12	3.49	1.99	2.32	1.00	3.69	12
8	30x60	19.66	5.09	6.55	3.39	1.49	5.53	12
8	30x60 4N	20.44	5.75	6.81	3.62	1.58	5.88	13
8	30x60x60	26.21	26.21	7.57	7.57	2.22	8.22	13
8	30x45 3N	8.16	3.98	3.63	2.62	1.09	4.05	13
8	30R45	3.70	5.29	2.13	2.37	1.11	4.12	14
8	30R60	4.24	3.12	1.95	1.77	1.01	3.73	14
8	30R90	2.28	2.28	1.41	1.41	0.78	2.88	14
10	40x40L	9.06	9.06	4.53	4.53	1.51	5.61	15
10	40x40L 1N	10.38	9.73	5.19	4.73	1.65	6.13	15
10	40x40L 3N	9.69	9.08	4.71	4.54	1.56	5.79	15
10	40x40L 2NE	9.71	9.71	4.72	4.72	1.61	5.96	15
10	40x40L 2NP	10.36	9.10	5.18	4.55	1.61	5.96	16
10	40LR90 (RADIUS)	6.84	6.84	3.06	3.06	1.28	4.75	16
10	40x80L	63.24	17.23	15.81	8.61	2.66	9.86	16
10	40x80L 4N	66.01	19.1	16.5	9.16	2.81	10.43	17
10	40x80L 3NE	68.6	19.1	16.88	9.17	2.86	10.61	17
10	40x80x80L	91.52	91.52	19.89	19.89	4.17	15.43	17
10	40x120L	201.95	27.76	33.66	13.88	4.14	15.35	18
10	40x160L	479.63	37.91	59.95	18.95	5.71	21.18	18
10	45x45L	11.00	11.00	4.89	4.89	1.55	5.73	19
10	45x45H	13.94	13.94	6.19	6.19	2.03	7.50	19
10	45x45L 3N	11.65	10.87	5.03	4.83	1.57	5.83	19
10	45x45L 2NVS	11.82	11.82	5.11	5.11	1.64	6.08	19
10	45x45L 2NP	11.04	12.66	4.91	5.63	1.64	6.08	20
10	45x45L 1N	11.84	12.68	5.13	5.64	1.69	6.25	20
10	45x90L	81.82	23.53	18.18	10.46	3.05	11.29	20
10	45x90H	124.05	32.25	27.57	14.33	4.11	15.24	21
10	45x90L 2NP	85.89	26.90	19.09	11.96	3.25	12.03	21
10	45x90x90L	151.95	151.95	29.34	29.34	5.67	21.01	21
10	45x90x90 4NED	160.98	160.98	30.67	30.67	5.94	22.01	22
10	45x90L D	80.82	23.27	17.96	10.34	2.88	10.66	22
10	45x90L 4ND	82.60	24.84	18.36	10.72	2.97	11.01	22
10	45x90L 2NED	85.90	24.86	18.81	10.73	3.02	11.18	23

Profile Technical Specifications

1

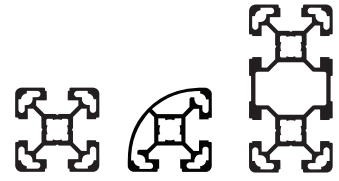
T-slot	Profile Size	Moment of Inertia Ix (cm ⁴) Iy (cm ⁴)		Section Modulus Wx (cm ³) Wy (cm ³)		Mass G (kg/m)	Profile Surface A (cm ²)	Page
10	45x60H	37.55	22.66	12.52	10.07	3.01	11.14	23
10	45x180	771.07	57.77	85.67	25.68	6.96	25.79	23
10	45R30	15.18	12.72	5.34	5.04	1.86	6.89	24
10	45R45	21.09	13.32	6.30	5.19	2.00	7.41	24
10	45R60	11.40	16.94	4.38	5.19	1.83	6.78	25
10	45LR90	8.01	8.01	3.20	3.20	1.27	4.70	25
10	50x50L	21.68	21.68	8.67	8.67	2.57	9.52	26
10	50x100L	165.70	42.99	33.14	17.20	4.73	17.51	26
10	100x100L	318.90	318.90	63.78	63.78	8.12	30.08	26
10	60x60L	31.71	31.71	10.57	10.57	2.57	9.52	27
10	60x60H	52.69	52.69	17.56	17.56	3.86	14.31	27
10	60x90H	212.45	90.43	47.21	30.14	6.92	25.64	27
10	80x80L	132.62	132.62	33.16	33.16	4.98	18.45	28
10	80x80L 6N	141.45	134.9	34.37	33.72	5.17	19.17	28
10	80x80L 4NE	143.3	143.3	34.8	34.8	5.33	19.74	28
10	80x120L	394.72	194.68	65.78	48.67	7.12	26.39	29
10	80x160L	867.52	256.3	108.44	64.07	9.22	34.17	29
10	90x90L	210.50	210.50	46.78	46.78	6.34	23.46	30
10	90x90L 4NE	220.15	220.15	48.06	48.06	6.49	24.03	30
10	90x90L 6N	217.87	211.76	47.55	47.06	6.37	23.60	31
10	90x90H	301.80	301.80	67.06	67.06	10.51	38.93	31
10	90x180L	1375.79	398.30	152.86	88.51	11.42	42.29	32
10	90x180H	2142.81	547.41	238.10	121.64	17.16	63.57	32
8	30x30 SG30	2.60	3.04	1.65	1.96	0.87	3.23	33
8	30x30 SG40	2.48	2.91	1.58	1.83	0.85	3.13	33
8	30x45 SG30	7.21	4.29	3.21	2.74	1.22	4.51	33
8	30x45 SG40	6.95	4.11	3.09	2.57	1.20	4.44	33
8	11x20	0.13	0.52	0.20	0.52	0.28	1.02	34
10	15x22.5	0.33	0.81	0.40	0.72	0.33	1.21	34
10	22.5x45	6.81	2.84	3.03	2.53	1.22	4.51	34
10	22.5x180	581.99	11.79	64.67	10.24	5.80	21.48	34
8	R22.5x30	2.93	1.59	1.85	1.39	0.85	3.15	35
8	R22.5x45	6.28	1.53	2.55	1.17	0.87	3.21	35
8	15x30 EP	2.16	0.51	1.41	0.65	0.56	2.07	35
10	30x45L WP	10.52	5.66	4.31	3.77	1.19	4.43	35
10	45x45 ST	12.28	16.83	4.78	7.48	1.90	7.05	36
8	55x22.5 SP	10.53	2.85	3.40	2.53	1.31	4.84	36
6/10	RP01	5.89	10.31	2.31	5.16	1.36	5.05	36



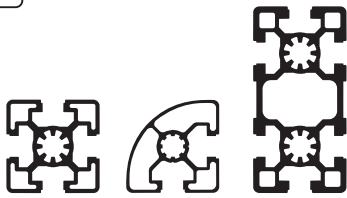
20 Series Aluminum Profiles
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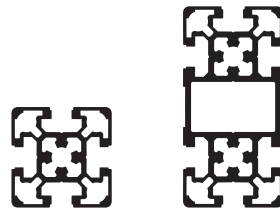
30 Series Aluminum Profiles
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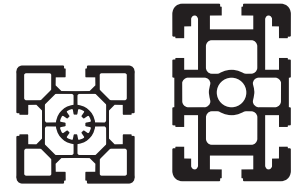
40 Series Aluminum Profiles
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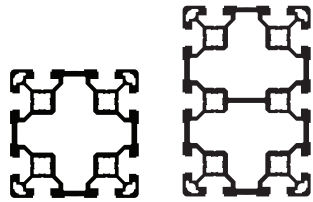
45 Series Aluminum Profiles
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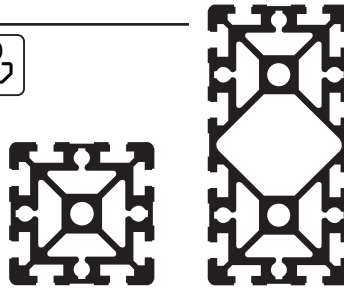
50 Series Aluminum Profiles
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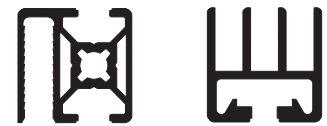
60 Series Aluminum Profiles
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80 Series Aluminum Profiles
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90 Series Aluminum Profiles
Page 30



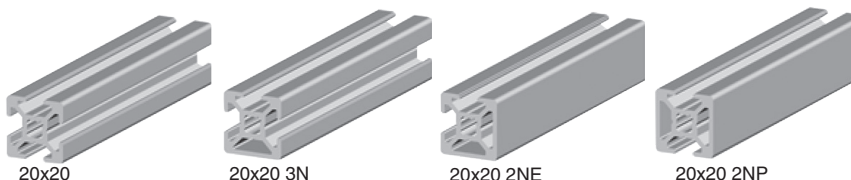
Speciality Aluminum Profiles
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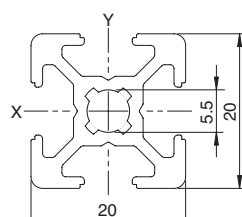
Tubular Aluminum Components
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20 Series Profile

1

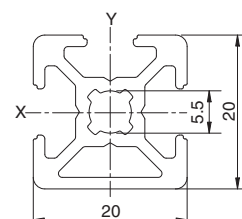


20x20



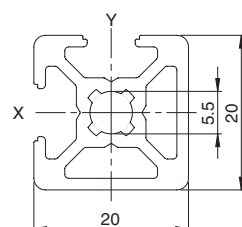
Qty	Length	Part Number
20	3060 mm	2020
1	3060 mm	2020/S
1	Specify Length ≥ 50 mm ≤ 3000 mm	2020/L _ _ _ _

20x20 3N



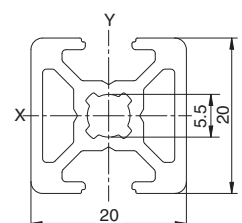
Qty	Length	Part Number
20	3060 mm	20203N
1	3060 mm	20203N/S
1	Specify Length ≥ 50 mm ≤ 3000 mm	20203N/L _ _ _ _

20x20 2NE



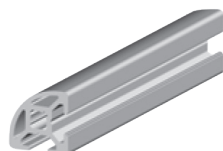
Qty	Length	Part Number
20	3060 mm	20202NE
1	3060 mm	20202NE/S
1	Specify Length ≥ 50 mm ≤ 3000 mm	20202NE/L _ _ _ _
20	6060 mm	20202NE-SL06
1	6060 mm	20202NE-SL06/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	20202NE-SL06/L _ _ _ _

20x20 2NP

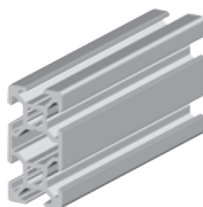


Qty	Length	Part Number
20	3060 mm	20202NP
1	3060 mm	20202NP/S
1	Specify Length ≥ 50 mm ≤ 3000 mm	20202NP/L _ _ _ _

20 Series Profile

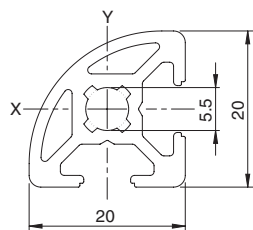


20R90



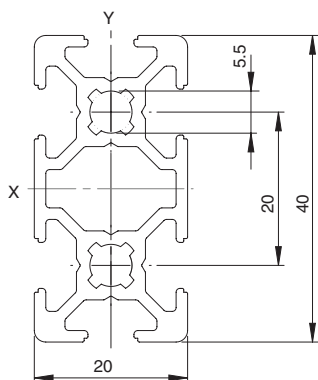
20x40

20R90 (RADIUS)



Qty	Length	Part Number
20	3060 mm	20R90
1	3060 mm	20R90/S
1	Specify Length ≥ 50 mm ≤ 3000 mm	20R90/L _ _ _ _

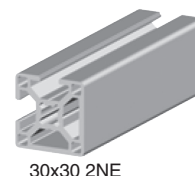
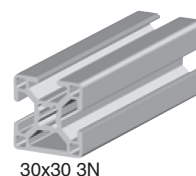
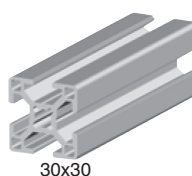
20x40



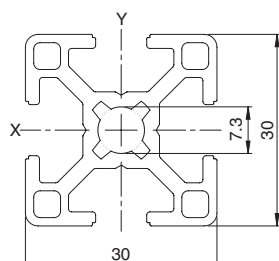
Qty	Length	Part Number
20	3060 mm	2040
1	3060 mm	2040/S
1	Specify Length ≥ 50 mm ≤ 3000 mm	2040/L _ _ _ _

30 Series Profile

1

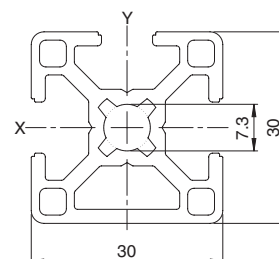


30x30



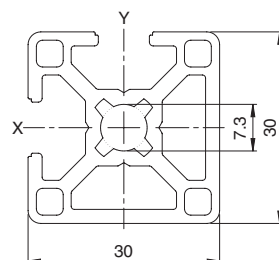
Qty	Length	Part Number
20	6060 mm	3030
1	6060 mm	3030/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	3030/L _ _ _ _

30x30 3N

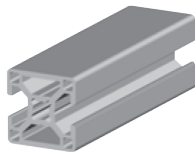


Qty	Length	Part Number
20	6060 mm	30303N
1	6060 mm	30303N/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	30303N/L _ _ _ _

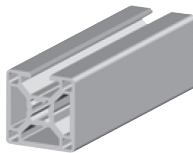
30x30 2NE



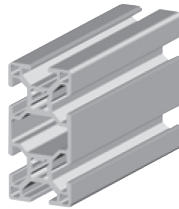
Qty	Length	Part Number
20	6060 mm	30302NE
1	6060 mm	30302NE/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	30302NE/L _ _ _ _



30x30 2NP

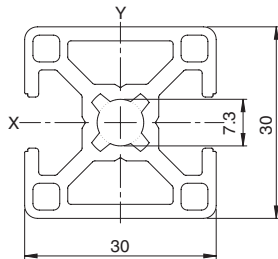


30x30 1N



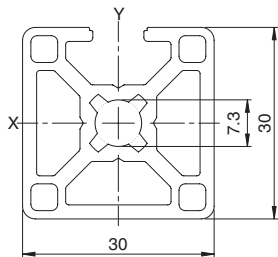
30x60

30x30 2NP



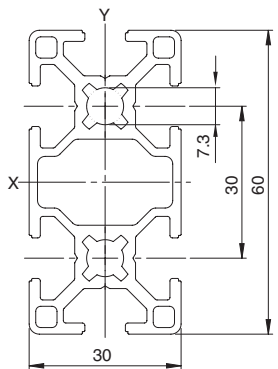
Qty	Length	Part Number
20	6060 mm	30302NP
1	6060 mm	30302NP/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	30302NP/L _ _ _ _

30x30 1N



Qty	Length	Part Number
20	6060 mm	30301N
1	6060 mm	30301N/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	30301N/L _ _ _ _

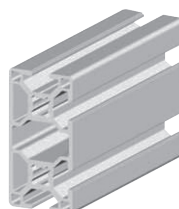
30x60



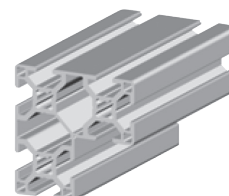
Qty	Length	Part Number
10	6060 mm	3060
1	6060 mm	3060/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	3060/L _ _ _ _

30 Series Profile

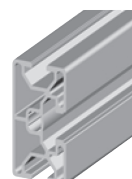
1



30x60 4N

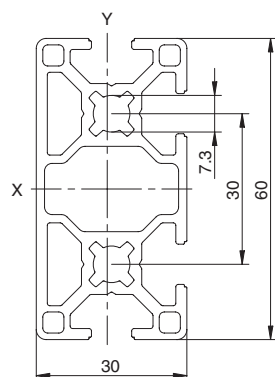


30x30x60



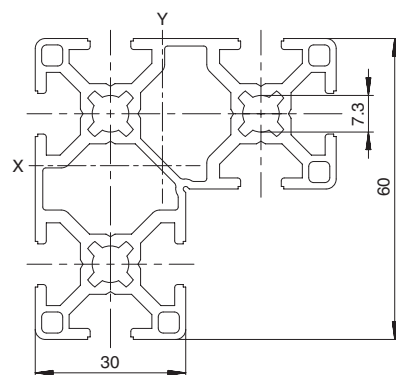
30x45 3N

30x60 4N



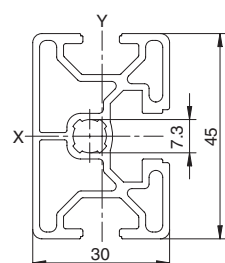
Qty	Length	Part Number
20	6060 mm	30604N
1	6060 mm	30604N/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	30604N/L _ _ _ _

30x60x60



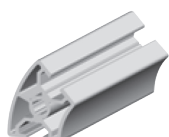
Qty	Length	Part Number
20	6060 mm	306060
1	6060 mm	306060/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	306060/L _ _ _ _

30x45 3N



Qty	Length	Part Number
18	6060 mm	30453N
1	6060 mm	30453N/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	30453N/L _ _ _ _

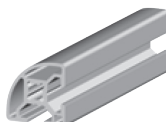
1 30 Series Radius Profile



30R45

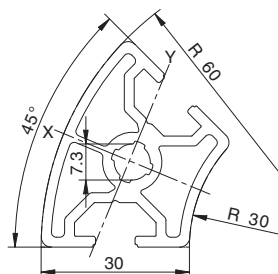


30R60



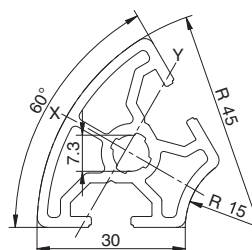
30R90

30R45



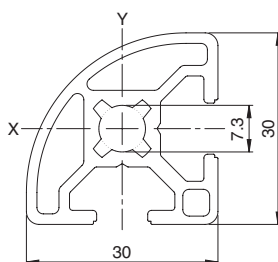
Qty	Length	Part Number
20	6060 mm	30R45
1	6060 mm	30R45/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	30R45/L _ _ _ _

30R60

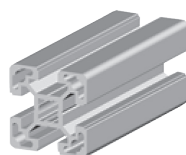


Qty	Length	Part Number
20	6060 mm	30R60
1	6060 mm	30R60/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	30R60/L _ _ _ _

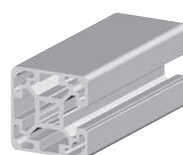
30R90



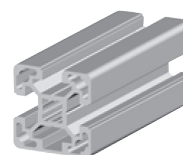
Qty	Length	Part Number
20	6060 mm	30R90
1	6060 mm	30R90/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	30R90/L _ _ _ _



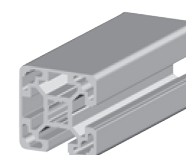
40x40L



40x40L 1N

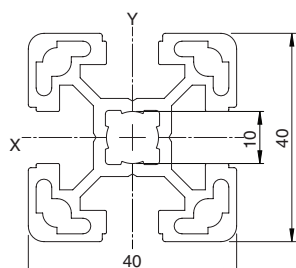


40x40L 3N



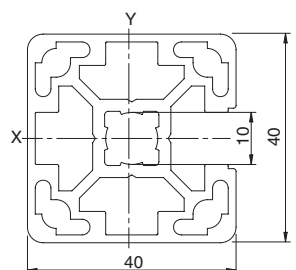
40x40L 2NE

40x40L



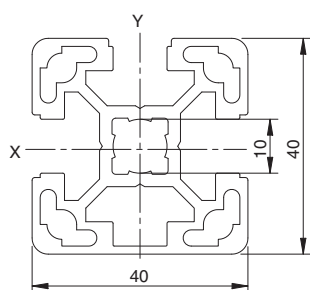
Qty	Length	Part Number
20	6060 mm	4040L
1	6060 mm	4040L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4040L/L _ _ _ _

40x40L 1N



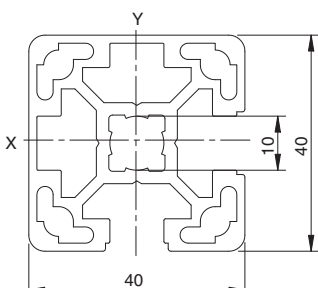
Qty	Length	Part Number
20	6060 mm	4040L1N
1	6060 mm	4040L1N/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4040L1N/L _ _ _ _

40x40L 3N

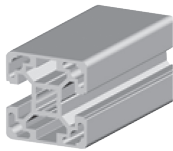


Qty	Length	Part Number
20	6060 mm	4040L3N
1	6060 mm	4040L3N/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4040L3N/L _ _ _ _

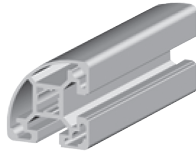
40x40L 2NE



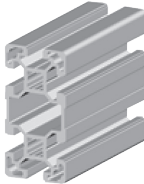
Qty	Length	Part Number
20	6060 mm	4040L2NE
1	6060 mm	4040L2NE/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4040L2NE/L _ _ _ _



40x40L 2NP

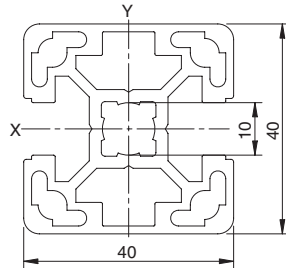


40LR90



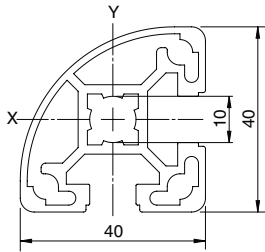
40x80L

40x40L 2NP



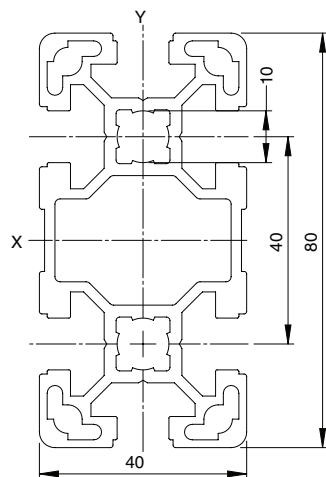
Qty	Length	Part Number
20	6060 mm	4040L2NP
1	6060 mm	4040L2NP/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4040L2NP/L _ _ _ _

40LR90 (RADIUS)



Qty	Length	Part Number
20	6060 mm	40LR90
1	6060 mm	40LR90/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	40LR90/L _ _ _ _

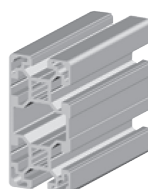
40x80L



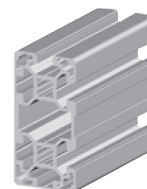
Qty	Length	Part Number
12	6060 mm	4080L
1	6060 mm	4080L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4080L/L _ _ _ _

40 Series Profile

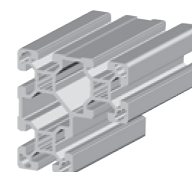
1



40x80L 4N

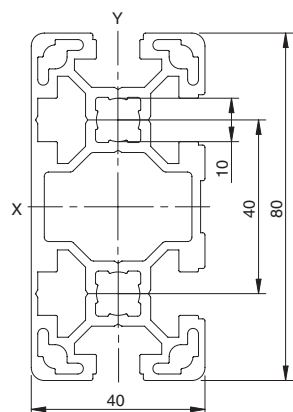


40x80L 3NE



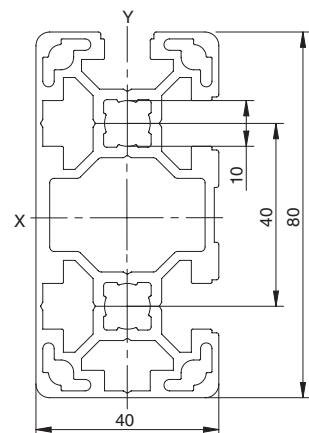
40x80x80L

40x80L 4N



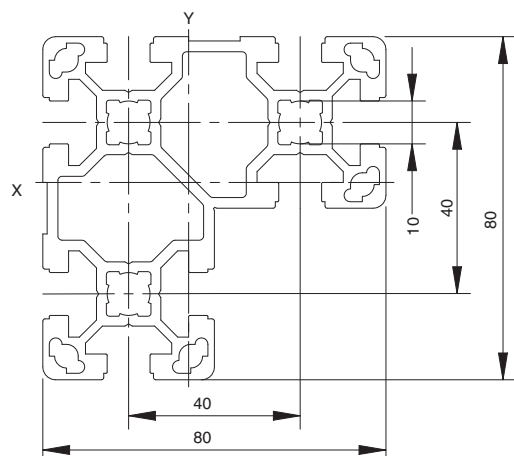
Qty	Length	Part Number
6	6060 mm	4080L4N
1	6060 mm	4080L4N/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4080L4N/L _ _ _ _

40x80L 3NE



Qty	Length	Part Number
6	6060 mm	4080L3NE
1	6060 mm	4080L3NE/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4080L3NE/L _ _ _ _

40x80x80L



Qty	Length	Part Number
6	6060 mm	408080L
1	6060 mm	408080L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	408080L/L _ _ _ _

40 Series Profile

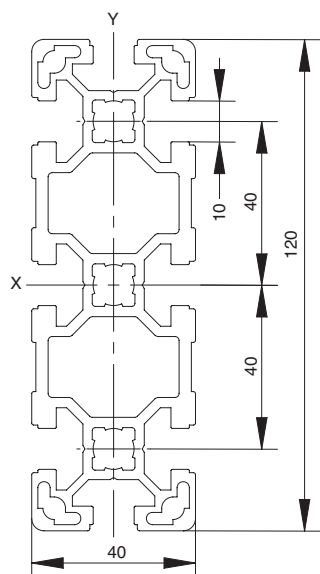


40x120L



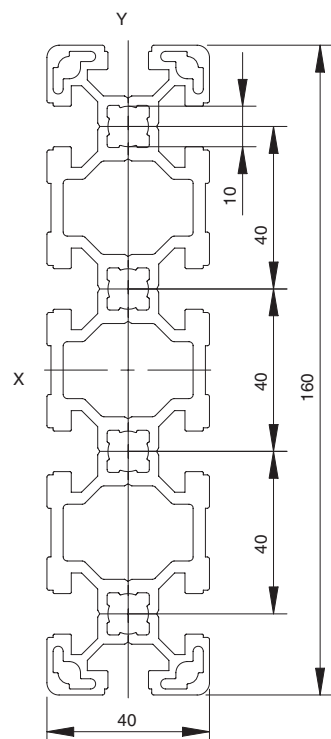
40x160L

40x120L



Qty	Length	Part Number
8	6060 mm	40120L
1	6060 mm	40120L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	40120L/L _ _ _ _

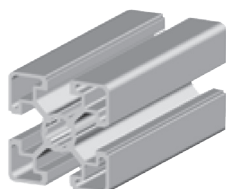
40x160L



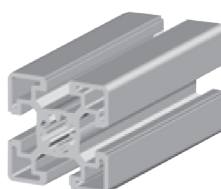
Qty	Length	Part Number
6	6060 mm	40160L
1	6060 mm	40160L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	40160L/L _ _ _ _

45 Series Profile

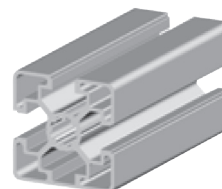
1



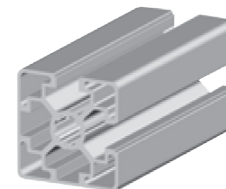
45x45L



45x45H

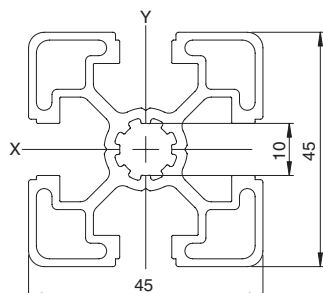


45x45L 3N



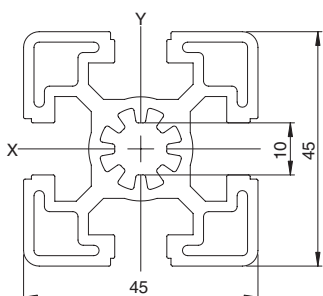
45x45L 2NVS

45x45L



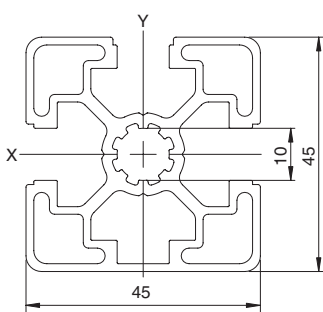
Qty	Length	Part Number
20	6060 mm	4545L
1	6060 mm	4545L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4545L/L _ _ _ _

45x45H



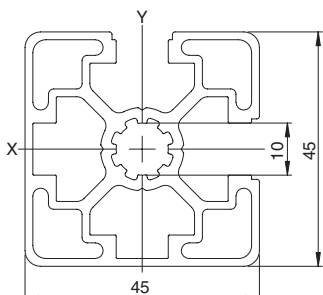
Qty	Length	Part Number
20	6060 mm	4545H
1	6060 mm	4545H/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4545H/L _ _ _ _

45x45L 3N

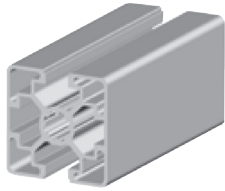


Qty	Length	Part Number
20	6060 mm	4545L3N
1	6060 mm	4545L3N/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4545L3N/L _ _ _ _

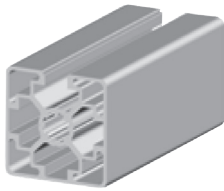
45x45L 2NVS



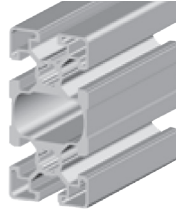
Qty	Length	Part Number
20	6060 mm	4545L2NVS
1	6060 mm	4545L2NVS/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4545L2NVS/L _ _ _ _



45x45L 2NP

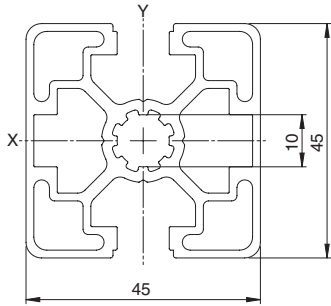


45x45L 1N



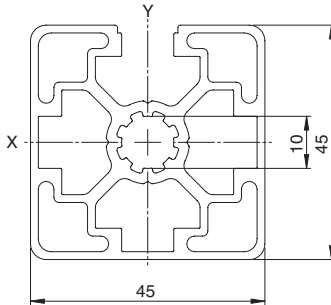
45x90L

45x45L 2NP



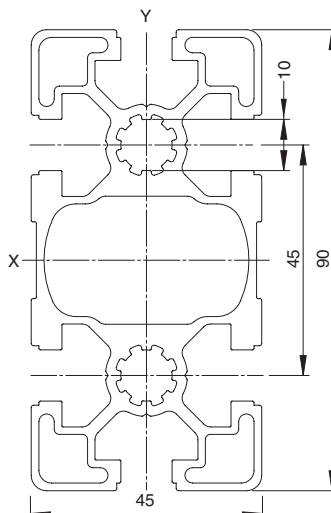
Qty	Length	Part Number
20	6060 mm	4545L2NP
1	6060 mm	4545L2NP/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4545L2NP/L _ _ _ _

45x45L 1N



Qty	Length	Part Number
20	6060 mm	4545L1N
1	6060 mm	4545L1N/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4545L1N/L _ _ _ _

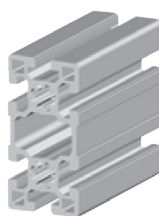
45x90L



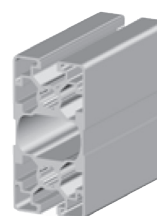
Qty	Length	Part Number
12	6060 mm	4590L
1	6060 mm	4590L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4590L/L _ _ _ _

45 Series Profile

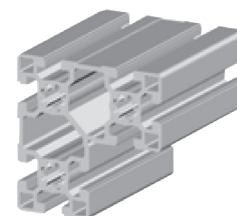
1



45x90H

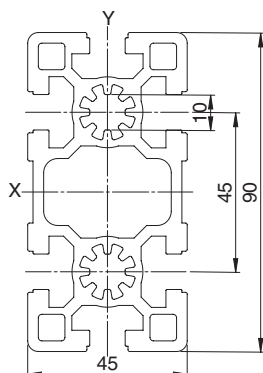


45x90L 2NP



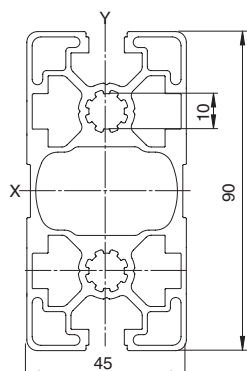
45x90x90L

45x90H



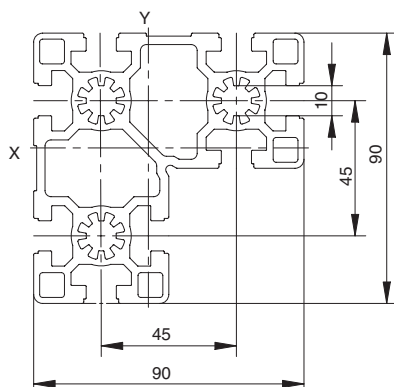
Qty	Length	Part Number
12	6060 mm	4590H
1	6060 mm	4590H/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4590H/L _ _ _ _

45x90L 2NP



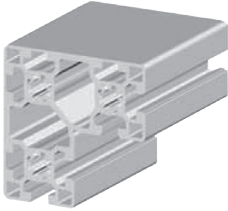
Qty	Length	Part Number
12	6060 mm	4590L2NP
1	6060 mm	4590L2NP/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4590L2NP/L _ _ _ _

45x90x90L

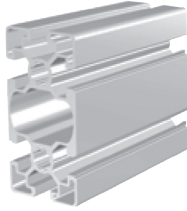


Qty	Length	Part Number
8	6060 mm	459090L
1	6060 mm	459090L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	459090L/L _ _ _ _

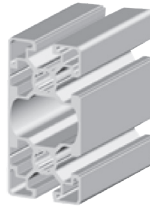
1 45 Series Profile



45x90x90L 4NED

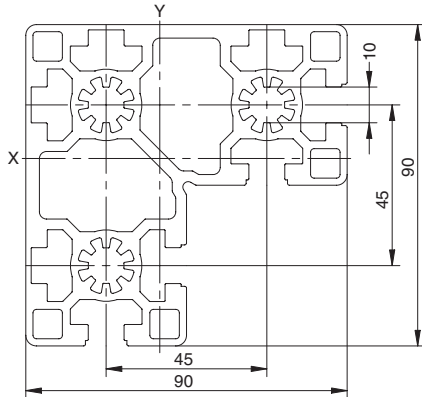


45x90L D



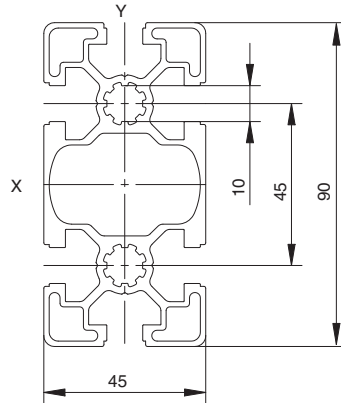
45x90L 4ND

45x90x90L 4NED



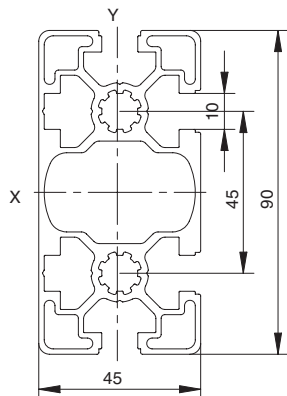
Qty	Length	Part Number
8	6060 mm	459090L4NED
1	6060 mm	459090L4NED/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	459090L4NED/L _ _ _ _

45x90L D



Qty	Length	Part Number
12	6060 mm	4590LD
1	6060 mm	4590LD/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4590LD/L _ _ _ _

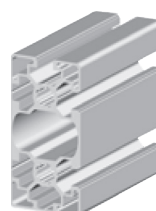
45x90L 4ND



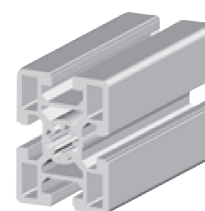
Qty	Length	Part Number
12	6060 mm	4590L4ND
1	6060 mm	4590L4ND/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4590L4ND/L _ _ _ _

45 Series Profile

1



45x90L 2NED

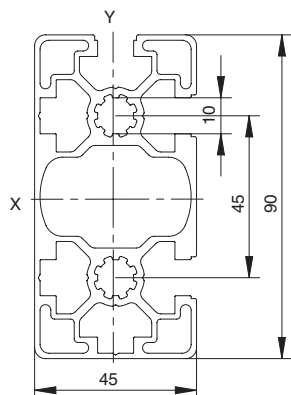


45x60H



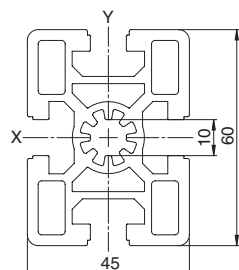
45x180

45x90L 2NED



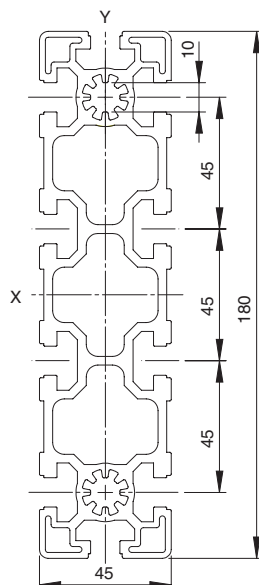
Qty	Length	Part Number
12	6060 mm	4590L2NED
1	6060 mm	4590L2NED/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4590L2NED/L _ _ _ _

45x60H

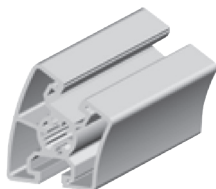


Qty	Length	Part Number
20	6060 mm	4560H
1	6060 mm	4560H/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4560H/L _ _ _ _

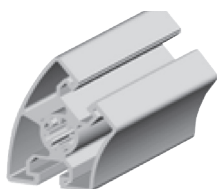
45x180



Qty	Length	Part Number
6	6060 mm	45180
1	6060 mm	45180/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	45180/L _ _ _ _

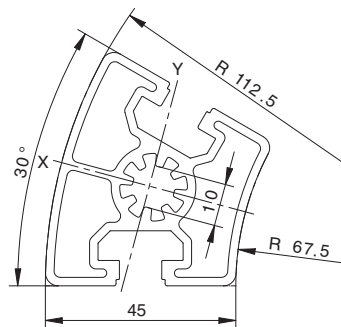


45R30



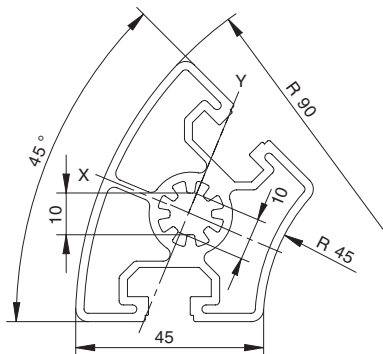
45R45

45R30



Qty	Length	Part Number
20	6060 mm	45R30
1	6060 mm	45R30/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	45R30/L _ _ _ _

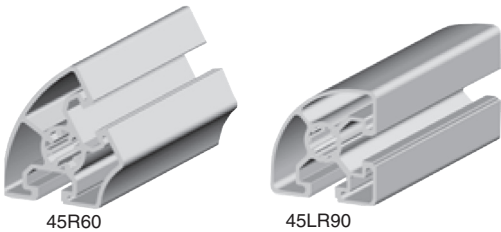
45R45



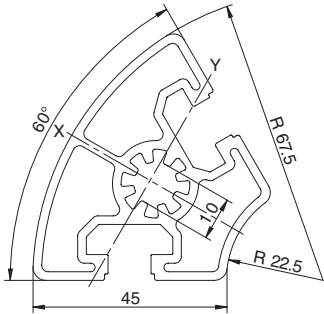
Qty	Length	Part Number
20	6060 mm	45R45
1	6060 mm	45R45/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	45R45/L _ _ _ _

45 Series Radius Profile

1

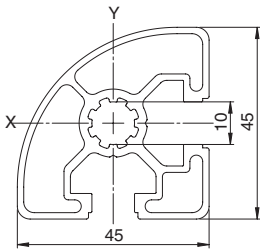


45R60



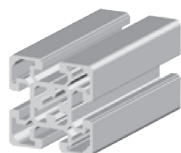
Qty	Length	Part Number
20	6060 mm	45R60
1	6060 mm	45R60/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	45R60/L _ _ _ _

45LR90

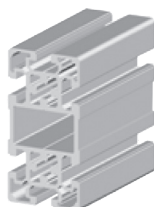


Qty	Length	Part Number
20	6060 mm	45LR90
1	6060 mm	45LR90/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	45LR90/L _ _ _ _

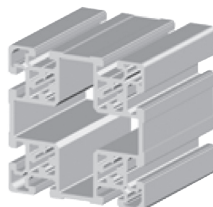
1 50 Series Profile



50x50L

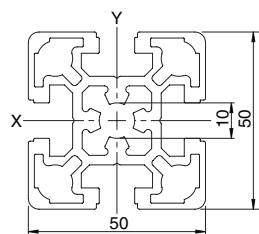


50x100L



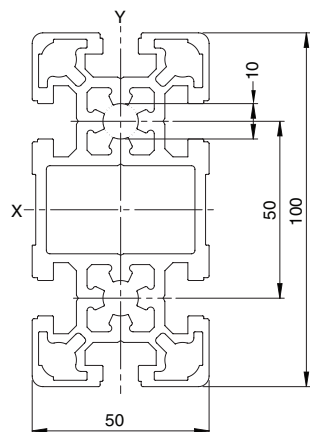
100x100L

50x50L



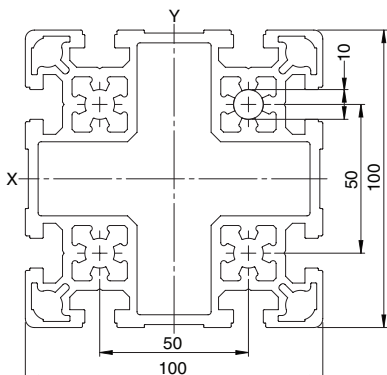
Qty	Length	Part Number
20	6060 mm	5050L
1	6060 mm	5050L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	5050L/L _ _ _ _

50x100L



Qty	Length	Part Number
10	6060 mm	50100L
1	6060 mm	50100L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	50100L/L _ _ _ _

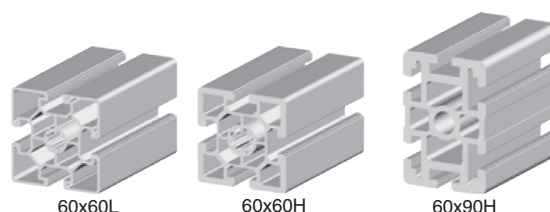
100x100L



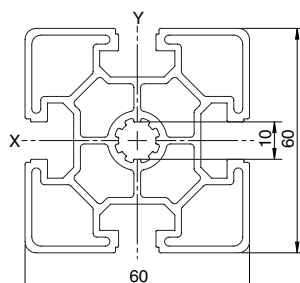
Qty	Length	Part Number
6	6060 mm	100100L
1	6060 mm	100100L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	100100L/L _ _ _ _

60 Series Profile

1

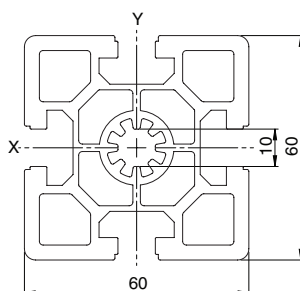


60x60L



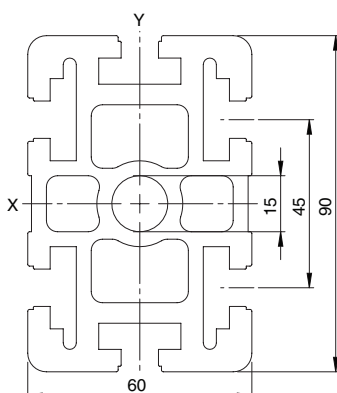
Qty	Length	Part Number
20	6060 mm	6060L
1	6060 mm	6060L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	6060L/L _ _ _ _

60x60H



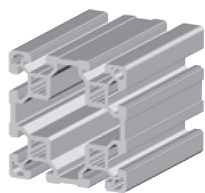
Qty	Length	Part Number
20	6060 mm	6060H
1	6060 mm	6060H/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	6060H/L _ _ _ _

60x90H

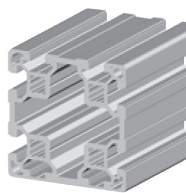


Qty	Length	Part Number
10	6060 mm	6090H
1	6060 mm	6090H/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	6090H/L _ _ _ _

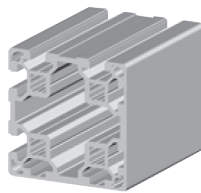
80 Series Profile



80x80L

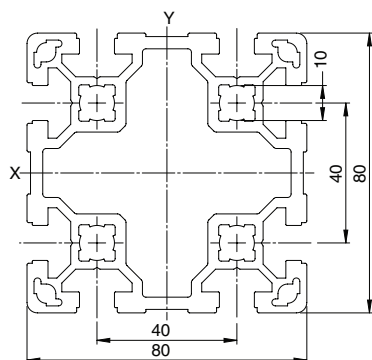


80x80L 6N



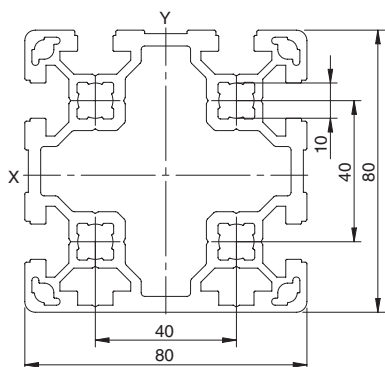
80x80L 4NE

80x80L



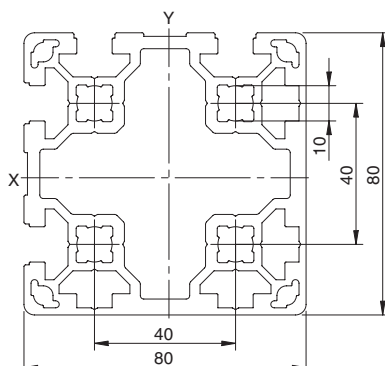
Qty	Length	Part Number
6	6060 mm	8080L
1	6060 mm	8080L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	8080L/L _ _ _ _

80x80L 6N



Qty	Length	Part Number
6	6060 mm	8080L6N
1	6060 mm	8080L6N/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	8080L6N/L _ _ _ _

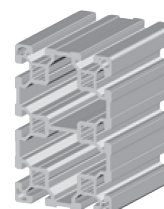
80x80L 4NE



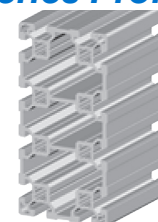
Qty	Length	Part Number
6	6060 mm	8080L4NE
1	6060 mm	8080L4NE/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	8080L4NE/L _ _ _ _

80 Series Profile

1

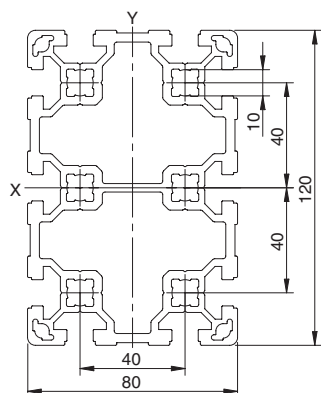


80x120L



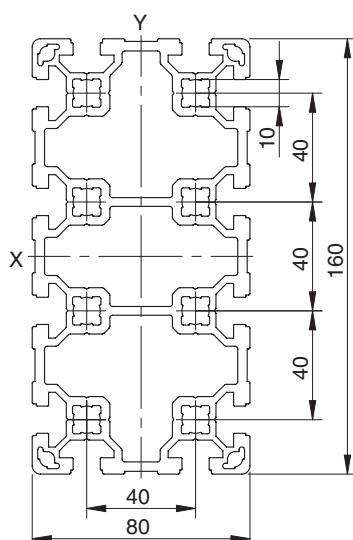
80x160L

80x120L

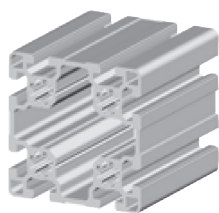


Qty	Length	Part Number
4	6060 mm	80120L
1	6060 mm	80120L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	80120L/L _ _ _ _

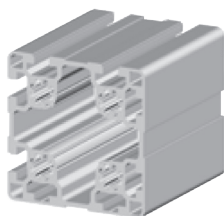
80x160L



Qty	Length	Part Number
2	6060 mm	80160L
1	6060 mm	80160L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	80160L/L _ _ _ _

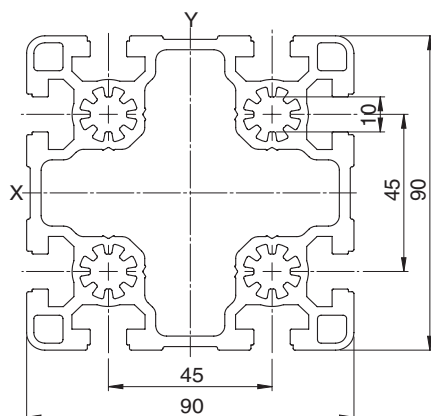


90x90L



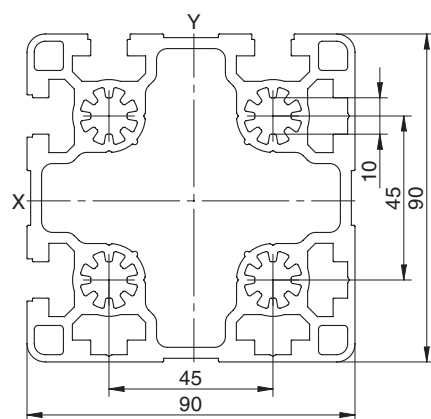
90x90L 4NE

90x90L



Qty	Length	Part Number
6	6060 mm	9090L
1	6060 mm	9090L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	9090L/L _ _ _ _

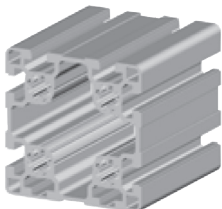
90x90L 4NE



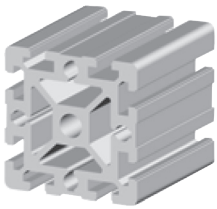
Qty	Length	Part Number
6	6060 mm	9090L4NE
1	6060 mm	9090L4NE/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	9090L4NE/L _ _ _ _

90 Series Profile

1

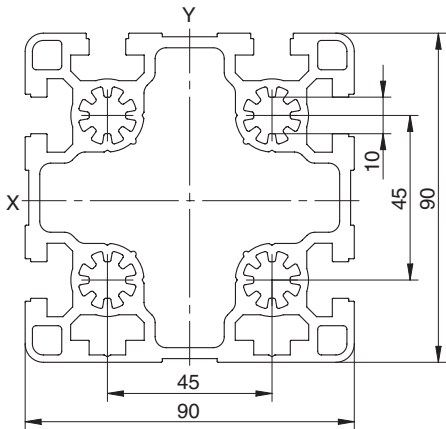


90x90L 6N



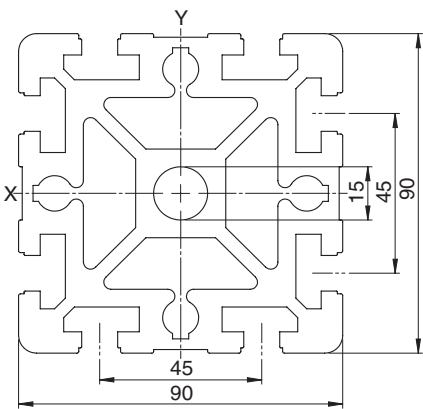
90x90H

90x90L 6N



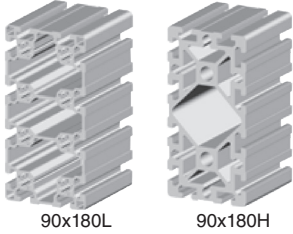
Qty	Length	Part Number
6	6060 mm	9090L6N
1	6060 mm	9090L6N/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	9090L6N/L _ _ _ _

90x90H

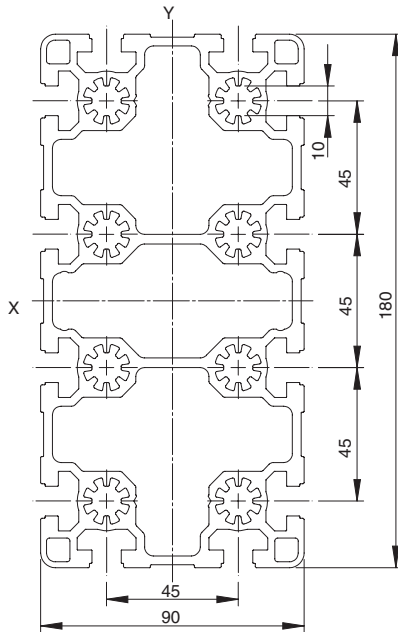


Qty	Length	Part Number
6	6060 mm	9090H
1	6060 mm	9090H/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	9090H/L _ _ _ _

90 Series Profile

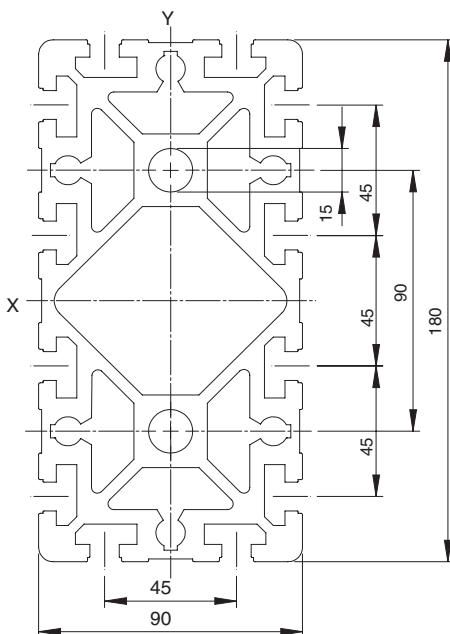


90x180L

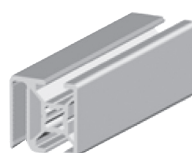


Qty	Length	Part Number
3	6060 mm	90180L
1	6060 mm	90180L/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	90180L/L _ _ _ _

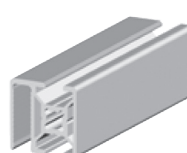
90x180H



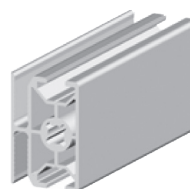
Qty	Length	Part Number
3	6060 mm	90180H
1	6060 mm	90180H/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	90180H/L _ _ _ _



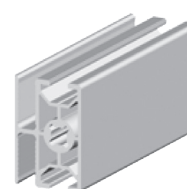
30x30 SG30



30x30 SG40

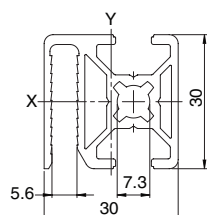


30x45 SG30



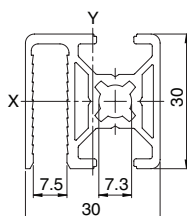
30x45 SG40

30x30 SG30



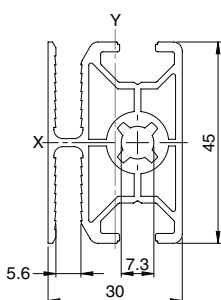
Qty	Length	Part Number
20	6060 mm	3030SG30
1	6060 mm	3030SG30/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	3030SG30/L _ _ _ _

30x30 SG40



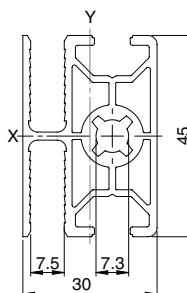
Qty	Length	Part Number
20	6060 mm	3030SG40
1	6060 mm	3030SG40/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	3030SG40/L _ _ _ _

30x45 SG30



Qty	Length	Part Number
20	6060 mm	3045SG30
1	6060 mm	3045SG30/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	3045SG30/L _ _ _ _

30x45 SG40



Qty	Length	Part Number
20	6060 mm	3045SG40
1	6060 mm	3045SG40/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	3045SG40/L _ _ _ _

11x20



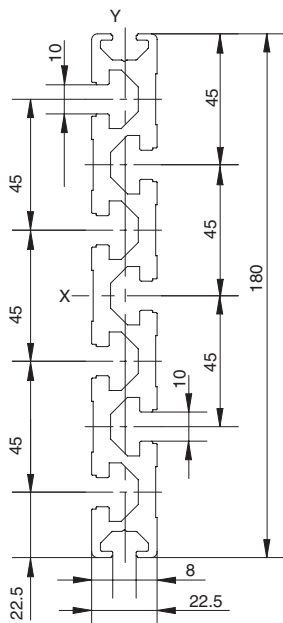
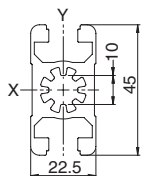
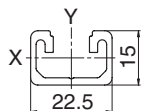
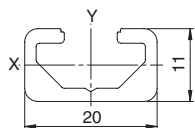
15x22.5

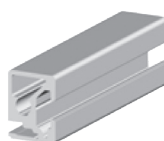


22.5x180

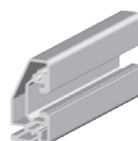


22.5x45

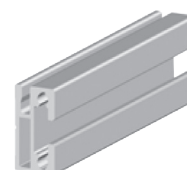




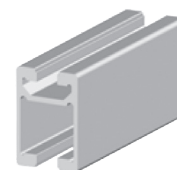
R22.5X30



R22.5x45

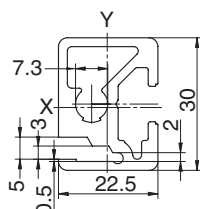


15x30 EP



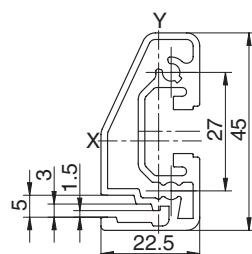
30x45L WP

R22.5x30



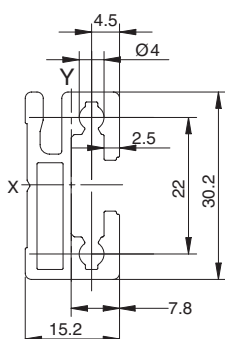
Qty	Length	Part Number
20	6060 mm	R22.530
1	6060 mm	R22.530/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	R22.530/L _ _ _ _

R22.5x45



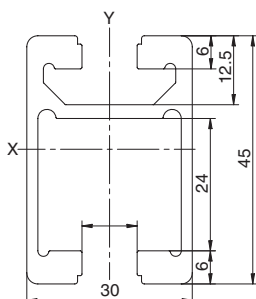
Qty	Length	Part Number
20	6060 mm	R22.545
1	6060 mm	R22.545/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	R22.5x45/L _ _ _ _

15x30 EP

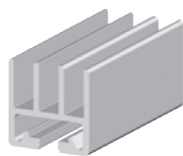


Qty	Length	Part Number
10	3060 mm	1530EP
1	3060 mm	1530EP/S
1	Specify Length ≥ 50 mm ≤ 3000 mm	11530EP/L _ _ _ _

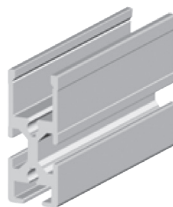
30x45L WP



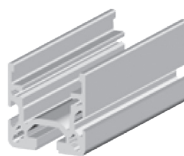
Qty	Length	Part Number
20	6060 mm	3045LWP
1	6060 mm	3045LWP/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	3045LWP/L _ _ _ _



45X45 ST

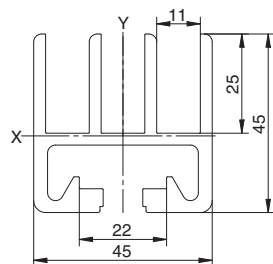


55X22.5 SP



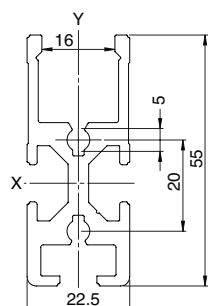
RP01

45x45 ST



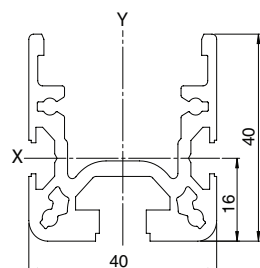
Qty	Length	Part Number
20	6060 mm	4545ST
1	6060 mm	4545ST/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	4545ST/L _ _ _ _

55x22.5 SP

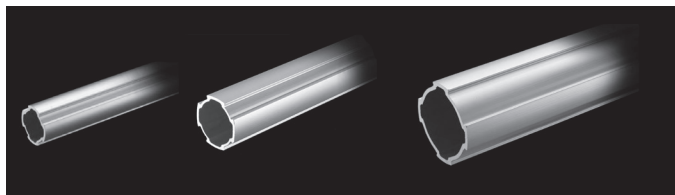


Qty	Length	Part Number
20	6060 mm	5522.5SP
1	6060 mm	5522.5SP/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	5522.5SP/L _ _ _ _

RP01



Qty	Length	Part Number
20	6060 mm	RP01
1	6060 mm	RP01/S
1	Specify Length ≥ 50 mm ≤ 6000 mm	RP01/L _ _ _ _



Lean Factory America carries the complete line of Green Frame (GF) tubular aluminum profiles and components.

The GF-series structural aluminum framing system has been designed to offer a flexible and recyclable solution for building factory automation solutions. Its unique shape is best suited for simple, fast assemblies and modifications with use of a single bolt. This offers maximum flexibility to expansion and layout changes frequently required in manufacturing sites. What's more, the aluminum is an excellent material for recycling and reuse. The freedom to choose the best combination of frames and accessories allows for a customized system that will satisfy your needs.

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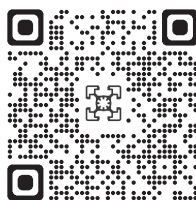
<https://leanfactoryamerica.com/brand/green-frame/>

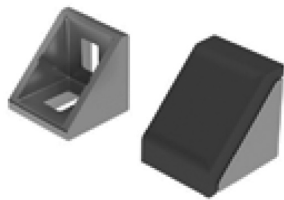
Ideal for the construction of:

- Workstations
- Material Handling Carts
- Flow Racks

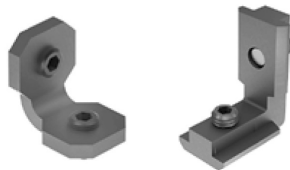


Scan the QR Code to download a pdf copy of the Green Frame catalog.





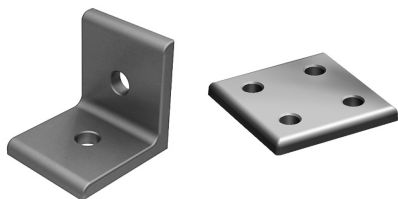
Connection Angles (Gussets, Brackets)
Page 39



Inner Connectors
Page 52



Miter Connectors 90°
Page 54



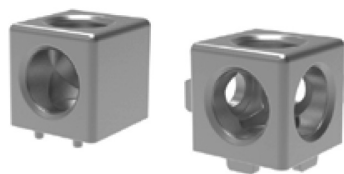
Connection Angles and Plates
Page 55



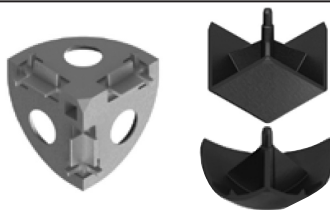
45° Angle Connectors
Page 63



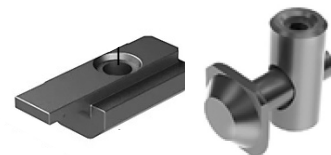
Plate Connector (T-connector)
Page 65



Cube Connector 2D, 3D (Cubic Connector)
Page 67



3-way Connectors (Corner Brackets)
Page 75



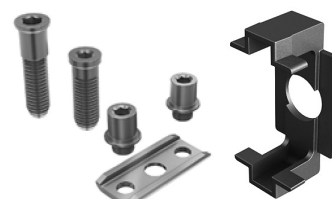
Central and Quick Connectors
Page 87



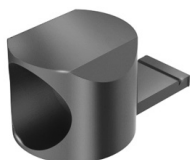
Bolt Connectors
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Slot Connectors
Page 93



Screw-on Connector Set
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Universal Connector
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Automatic and T-matic Connectors
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Connection Screws
Page 101

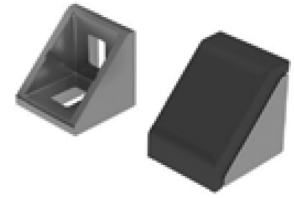


Frame Corner Connectors
Page 104

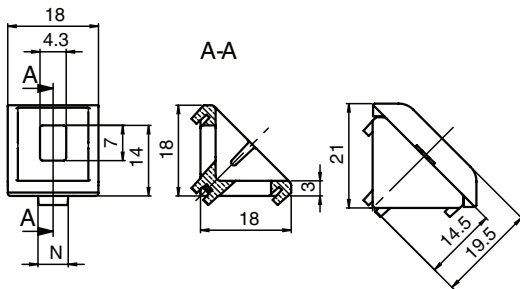


Floor Brackets (Foundation Bracket)
Page 106

Connection Angle 20 (20x20 Gusset)

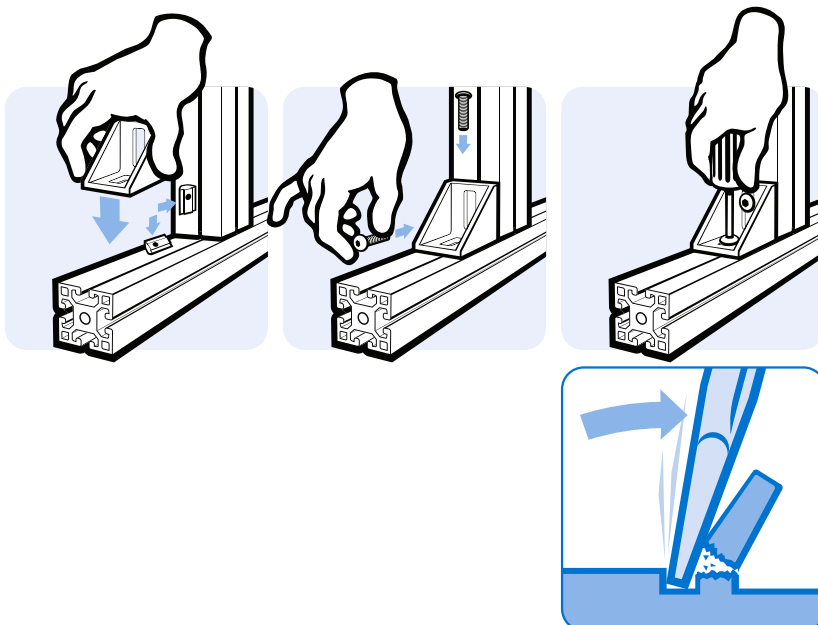


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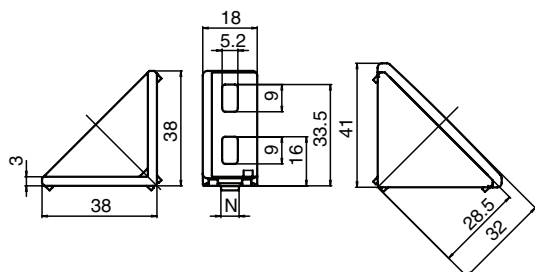
Model	Aluminum die-cast, profile 20 and up
Description	To connect two aluminum profiles or panels at right angles; the connection angle can be closed with the cover cap
Material	Angle: Aluminum die-cast Cover cap: Plastic PA, glass fiber reinforced Assembly set: Steel
Color	Cover cap: Black
Assembly Set	2 T-nut - slot 6 - M4, 2 screws DIN 7984 - M4 × 8
Pack Quantity	10 pieces

Connection Angle 20	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	No centering tab	4.4	093W203
	6	4.8	093W203N06
Cover cap		1.6	093WA203
Gusset, with assembly set	6	7.0	093W203N06S01



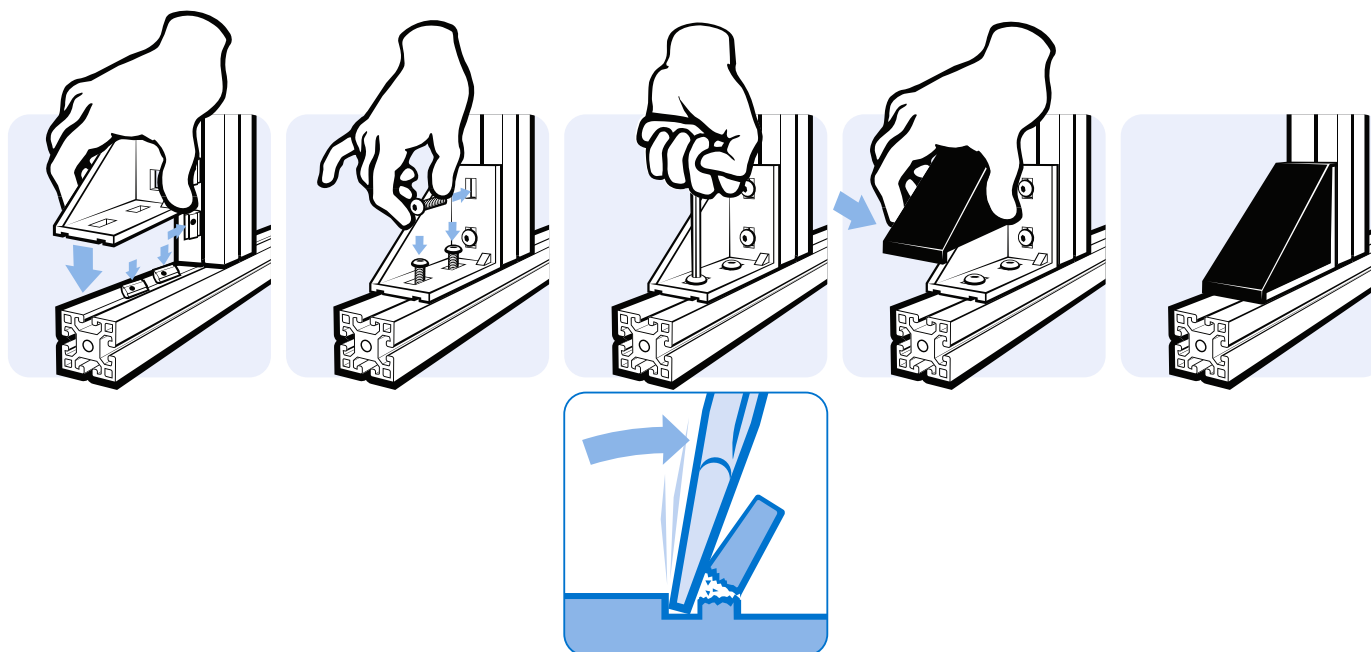
Connection Angle 20/40 (20x40 Gusset)

2



Model	Aluminum die-cast, profile 20 and up
Description	To connect two aluminum profiles or panels at right angles; the connection angle can be closed with the cover cap
Material	Angle: Aluminum die-cast Cover cap: Plastic PA, glass fiber reinforced Assembly set: Steel
Color	Cover cap: Black
Assembly Set	4 T-nuts - slot 6 - M4, 4 screws DIN 7984 - M4 × 8
Pack Quantity	10 pieces

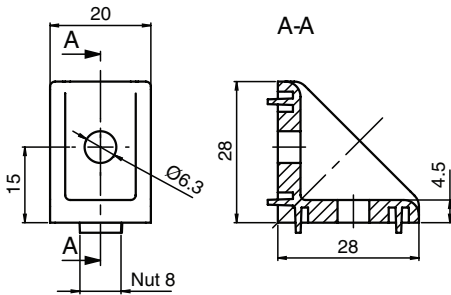
Connection Angle 20/40	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	No centering tab	13.2	093W202
	6	13.2	093W202N06
Cover cap		1.0	093WA202
Gusset, with assembly set	6	23.0	093W202N06S03



Connection Angle 20/28 (20x28 Gusset)

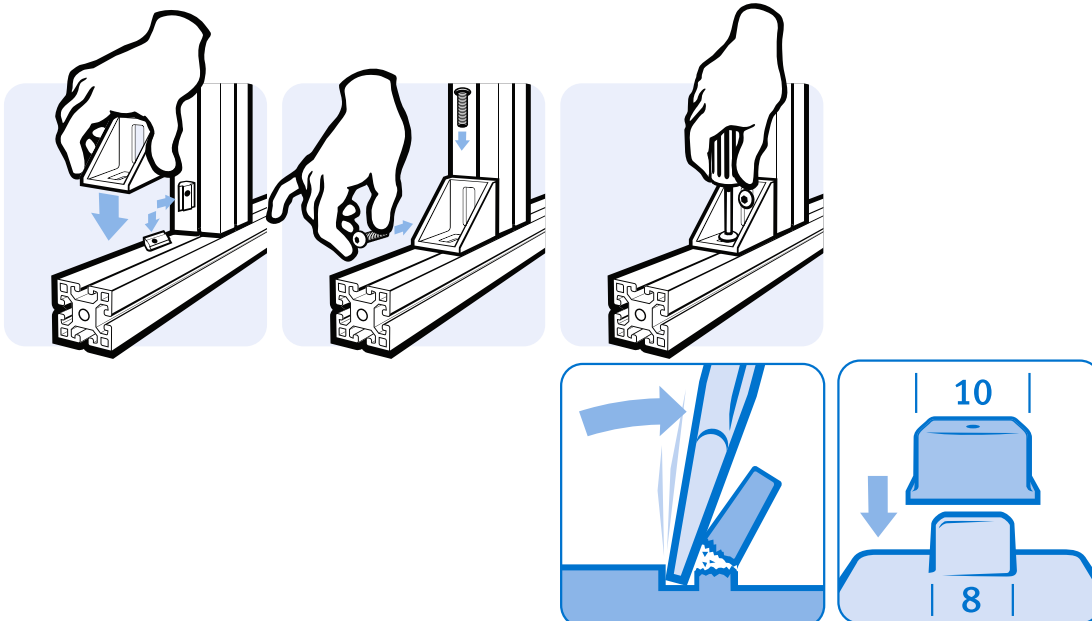


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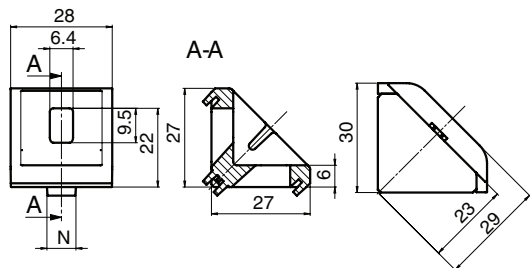
Model	Zinc die-cast
Description	To connect two profiles and panels at right angles
Material	Angle: Zinc die-cast Assembly set: Steel Centering piece: Plastic PA, glass fiber reinforced
Color	Centering piece: Natural
Assembly Set	2 T-nuts - slot 8 - M6, 2 screws DIN 7984 - M6 × 12
Pack Quantity	10 pieces

Connection Angle 20/28	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	8	34.0	093W206N08R
Centering pieces	Slot 8 to slot 10	1.0	093W03
Gusset, with assembly set	8	50.0	093W206N08RS02



Connection Angle 30 (30x30 Gusset)

2



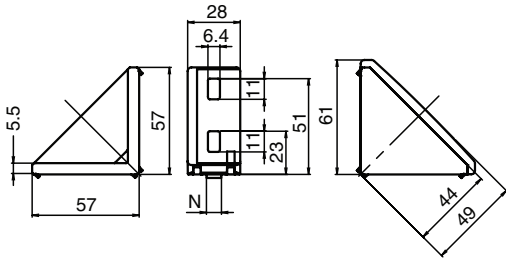
Model	Aluminum die-cast, profile 30 and up
Description	To connect two aluminum profiles or panels at right angles; the connection angle can be closed with the cover cap
Material	Angle: Aluminum die-cast Cover Cap: Plastic PA, glass fiber reinforced Centering piece: Nylon PA, glass fiber reinforced Assembly set: Steel
Color	Cover cap: Black Centering pieces: Black
Assembly Set 1	2 T-nuts - slot 8 - M6, 2 screws DIN 7984 - M6 × 14
Assembly Set 2	1 T-nut - slot 8 - M6, 1 screw DIN 7984 - M6 × 14, 1 T-nut - slot 10 - M6, 1 screw DIN 7984 - M6 × 18, 2 centering pieces - slot 8 to slot 10
Assembly Set 3	2 T-nuts - slot 10 - M6, 2 screws DIN 7984 - M6 × 18, 4 centering pieces - slot 8 to slot 10
Pack Quantity	10 pieces
Tip	*By means of two plastic adapters slot 8 to slot 10

Connection Angle 30	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	No centering tab	19.8	093W303
	6	20.4	093W303N06
	8	20.6	093W303N08
	*10	20.8	093W303N10
Centering pieces	Slot 8 to slot 10	1.0	093W02
Cover cap		5.2	093WA303S02
Gusset, with assembly set 1	8	35.0	093W303N08S11
Gusset, with assembly set 2	8 / 10	40.0	093W303N08S09
Gusset, with assembly set 3	10	46.0	093W303N10S02

Connection Angle 30/60 (30x60 Gusset)

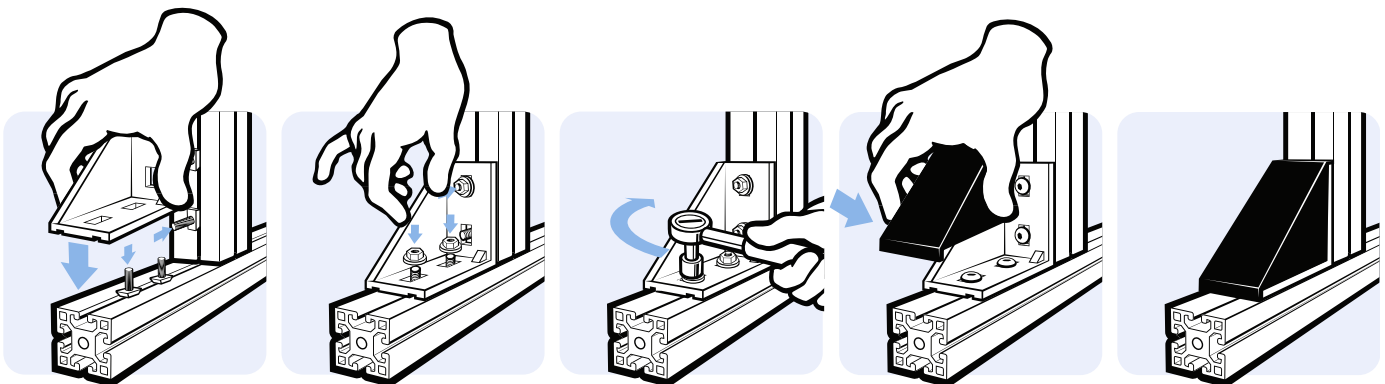


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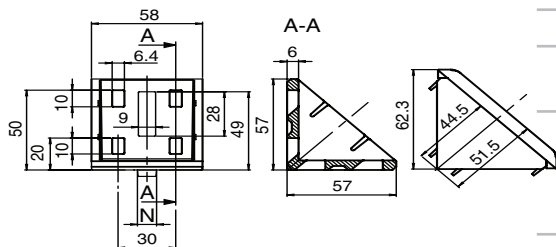
Model	Aluminum die-cast, profile 30 and up
Description	To connect two aluminum profiles or panels at right angles; the connection angle can be closed with the cover cap
Material	Angle: Aluminum die-cast Cover Cap: Plastic PA, glass fiber reinforced Centering piece: Nylon PA, glass fiber reinforced Assembly set: Steel
Color	Cover cap: Black Centering piece: Natural
Assembly Set	4 T-nuts - slot 8 - M6, 4 screws DIN 7984 - M6 × 14
Pack Quantity	10 pieces

Connection Angle 30/60	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	No centering tab	60.0	093W302
	6	60.4	093W302N06
	8	58.5	093W302N08
Centering pieces	Slot 8 to slot 10	1.0	093W02
Cover cap		14.0	093WA302
Gusset, with assembly set	8	82.0	093W302N08S01



Connection Angle 60 (60x60 Gusset)

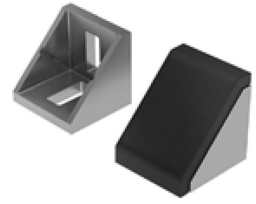
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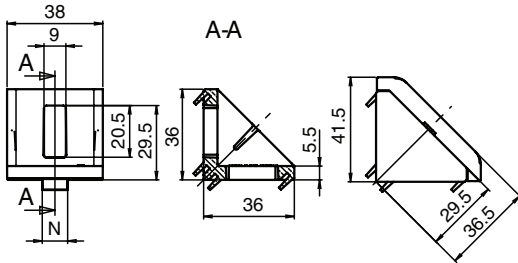
Model	Aluminum die-cast, profile 60 and up
Description	To connect two aluminum profiles or panels at right angles; the connection angle can be closed with the cover cap
Material	Angle: Aluminum die-cast Cover cap: Plastic PA, glass fiber reinforced Centering piece: Plastic PA, glass fiber reinforced Assembly set: Steel
Color	Cover cap: Black Centering piece: Black
Assembly Set 1	8 T-nuts - Slot 8 - M6, 8 Screws DIN 7984 - M6 x 14
Assembly Set 2	4 T-nuts - Slot 8 - M6, 4 screws DIN 7984 - M6 x 14, 1 T-bolt - Slot 10 - M8 x 20, 1 flange nut - M8, 2 plastic adapters - slot 8 to slot 10
Assembly Set 3	2 T-bolts - M8 x 20, 2 flange nuts - M8
Pack Quantity	10 pieces

Connection Angle 60	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	No centering tab	103.0	093W603
	8	106.0	093W603N08
	10	109.0	093W603N10
	10	111.0	093W603N10S04
Centering pieces	Slot 8 to slot 10	1.0	093W02
Cover cap		25.8	093WA603
Gusset, with assembly set 1	8	172.0	093W603N08S01
Gusset, with assembly set 2	8	160.0	093W603N08S02
Gusset, with assembly set 3	10	155.0	093W603N10S01

Connection Angle 40 (40x40 Gusset)

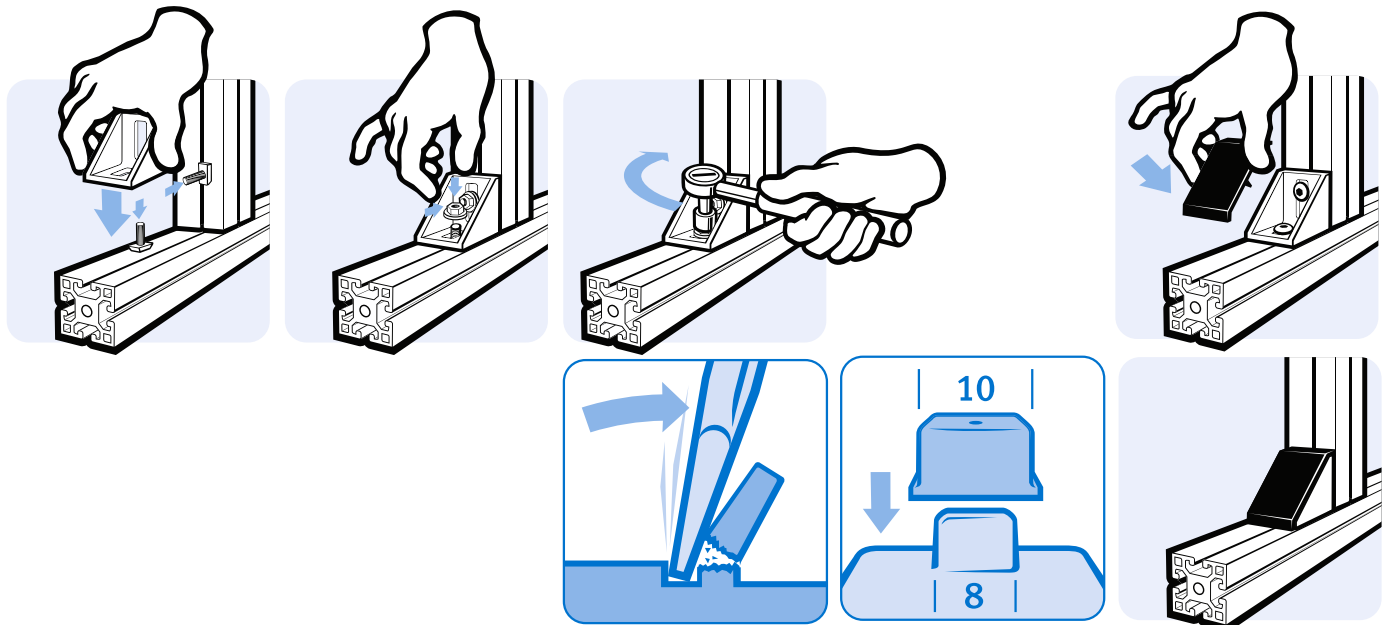


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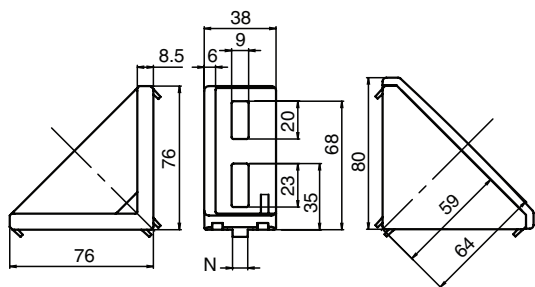
Model	Aluminum die-cast, profile 40 and up
Description	To connect two aluminum profiles or panels at right angles; the connection angle can be closed with the cover cap
Material	Angle: Aluminum die-cast Cover Cap: Plastic PA, glass fiber reinforced Centering piece: Nylon PA, glass fiber reinforced Assembly set: Steel
Color	Cover cap: Black Centering piece: Natural
Assembly Set	2 T-bolts - slot 10 - M8 × 20, 2 flange nuts M8
Pack Quantity	10 pieces

Connection Angle 40	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	No centering tab	33.0	093W404
	8	33.6	093W404N08
	10	33.8	093W404N10
Centering pieces	Slot 8 to slot 10	1.0	093W03
Cover cap		10.6	093WA404
Gusset, with assembly set	10	76.4	093W404N10S01



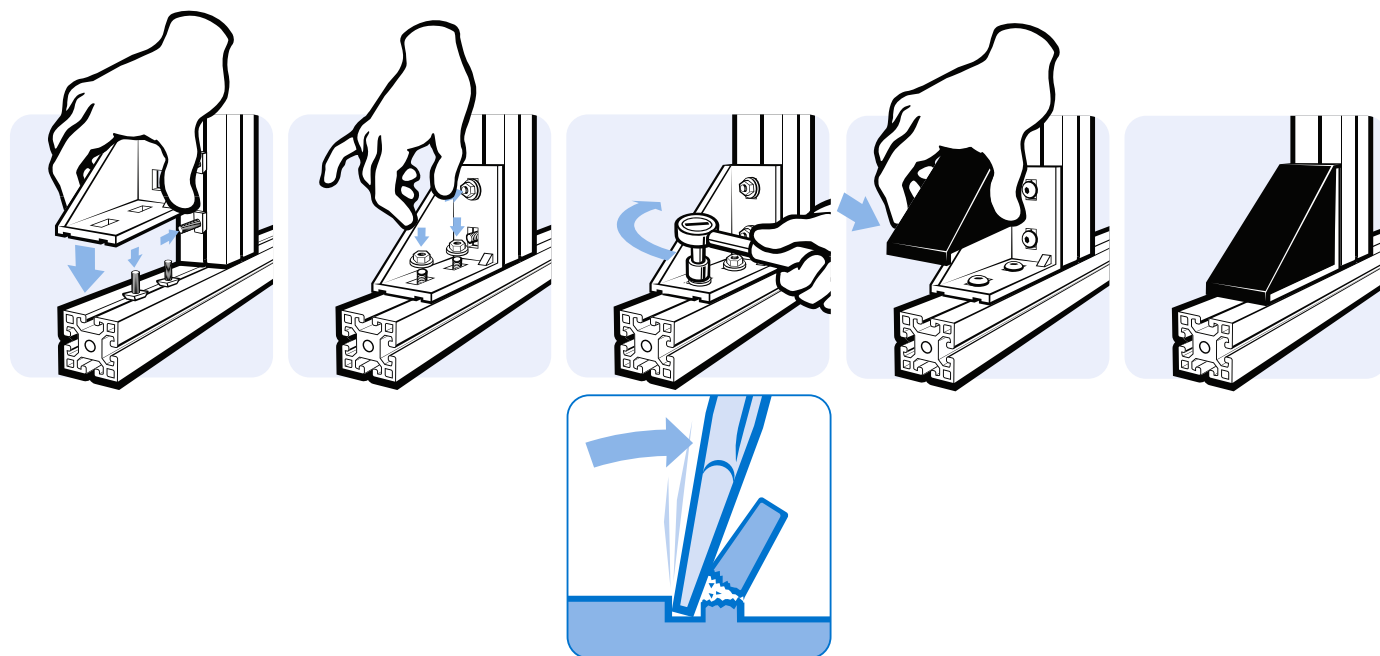
Connection Angle 40/80 (40x80 Gusset)

2



Model	Aluminum die-cast, profile 40 and up
Description	To connect two aluminum profiles or panels at right angles; the connection angle can be closed with the cover cap
Material	Angle: Aluminum die-cast Cover cap: Plastic PA, glass fiber reinforced Assembly set: Steel
Color	Cover cap: Black
Assembly Set	4 T-bolts - slot 10 - M8 × 25, 4 flange nuts M8
Pack Quantity	10 pieces

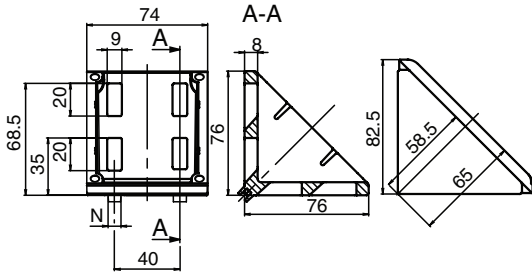
Connection Angle 40/80	T-Slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	No centering tab	123.0	093W403
	8	120.2	093W403N08
	10	118.5	093W403N10
Cover cap		87.0	093WA403
Gusset, with assembly set	10	120.0	093W403N10S01



Connection Angle 80 (80x80 Gusset)

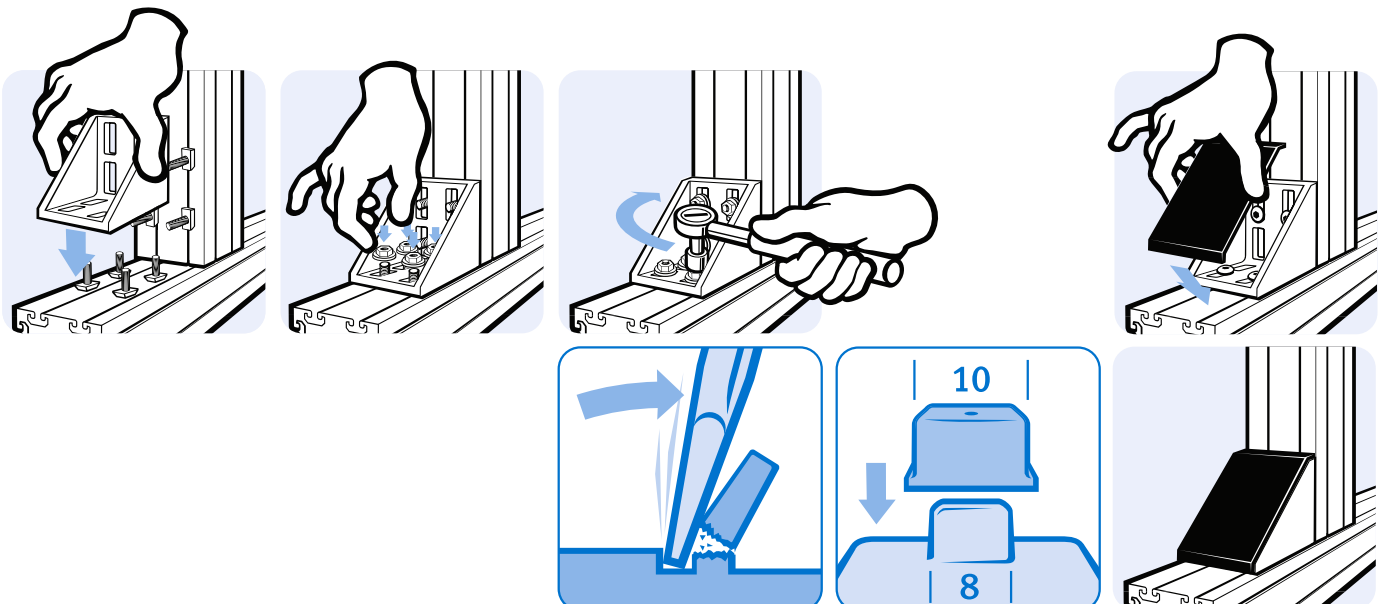


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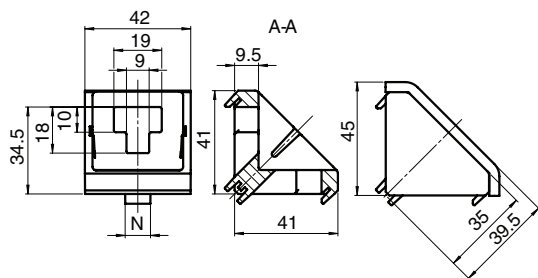
Model	Aluminum die-cast, profile 80 and up
Description	To connect two aluminum profiles or panels at right angles; the connection angle can be closed with the cover cap
Material	Angle: Aluminum die-cast Cover cap: Plastic PA, glass fiber reinforced Centering piece: Plastic PA, glass fiber reinforced Assembly set: Steel
Color	Cover cap: Black Centering piece: Black
Assembly Set	8 T-bolts - slot 10 - M8 x 25, 8 flange nuts M8
Pack Quantity	10 pieces

Connection Angle 80	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	No centering tab	212.0	093W806
	8	220.0	093W806N08
	10	225.00	093W806N10
Centering pieces	Slot 8 to slot 10	1.0	093W02
Cover cap		42.0	093WA806
Gusset, with assembly set	10	412.0	093W806N10S01



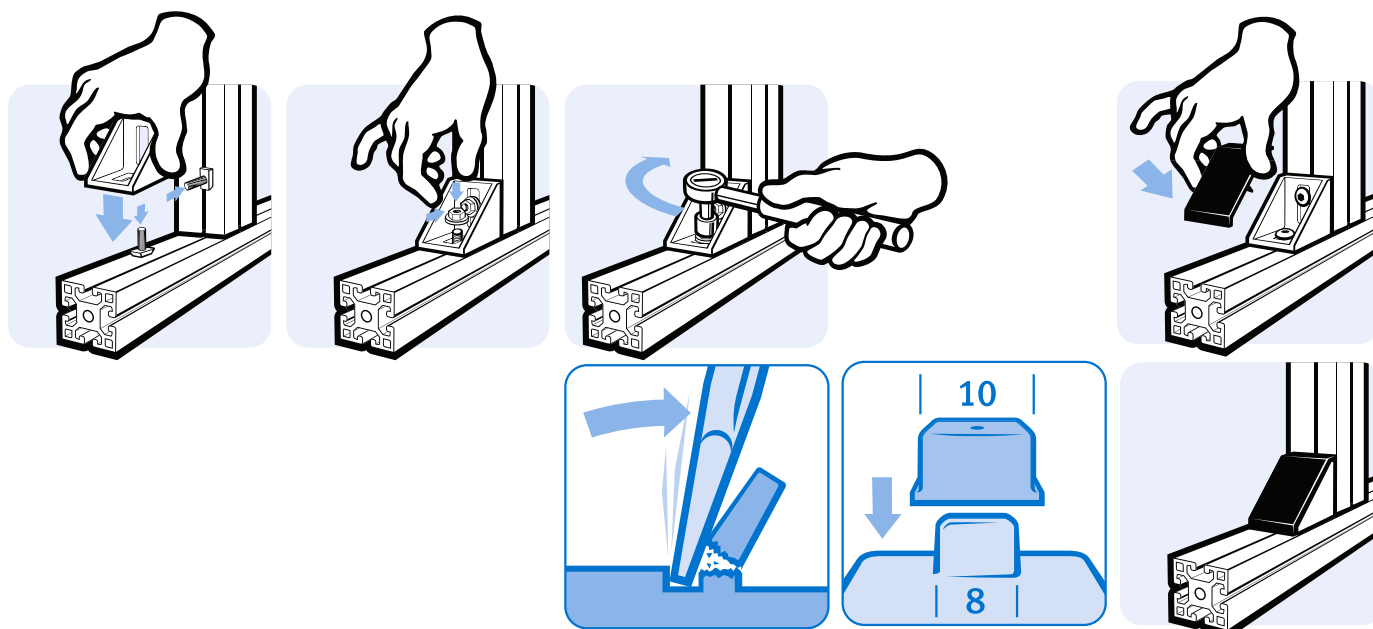
Connection Angle 45 T (45x45 Gusset)

2



Model	Aluminum die-cast, profile 45 and up
Description	To connect two aluminum profiles or panels at right angles; the connection angle can be closed with the cover cap
Material	Angle: Aluminum die-cast Cover cap: Plastic PA, glass fiber reinforced Assembly set: Steel
Color	Cover cap: Black, gray
Assembly Set	2 T-bolts - slot 10 - M8 × 25, 2 flange nuts M8
Pack Quantity	10 pieces

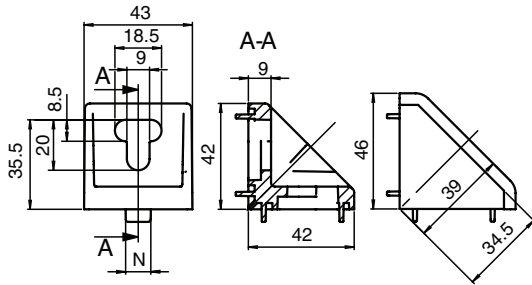
Connection Angle 45 T	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	10	54.3	093W423N10
Cover cap		13.8	093WA421S02
Gusset, with assembly set	10	107.6	093W423N10S02



Connection Angle 43/42 (43x42 Gusset)

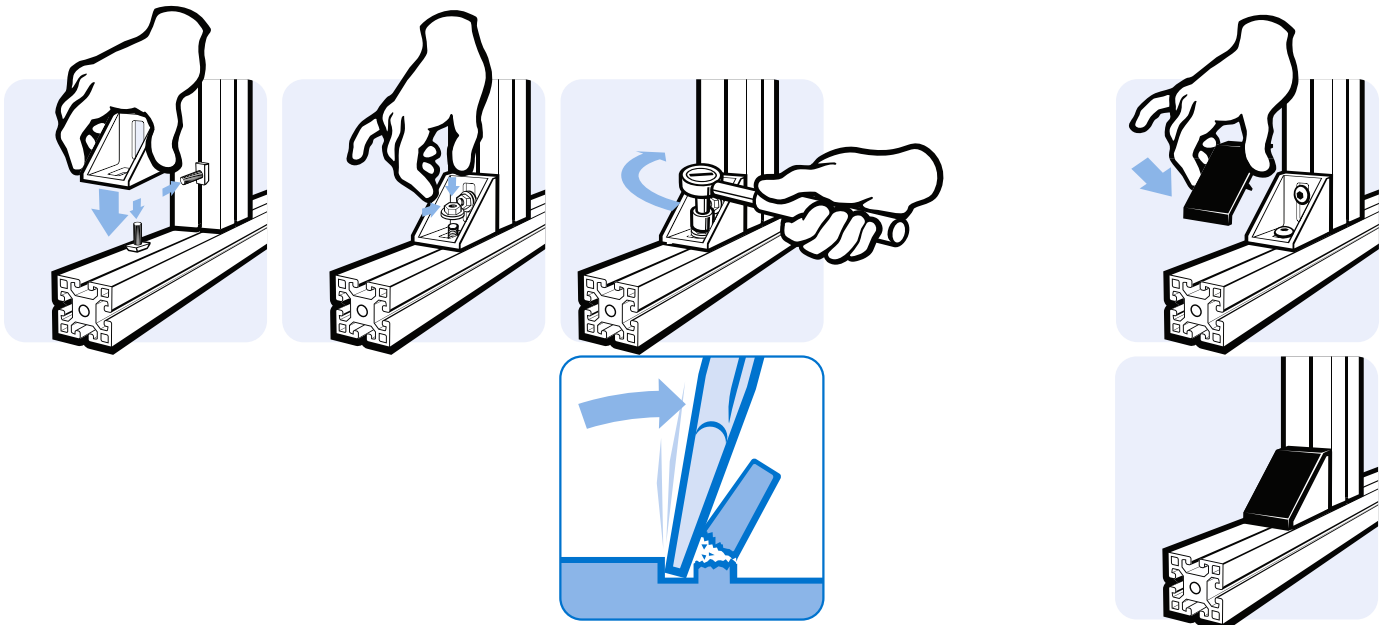


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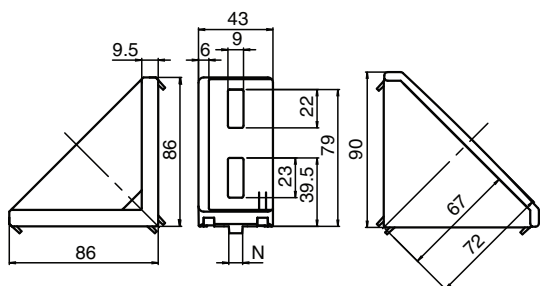
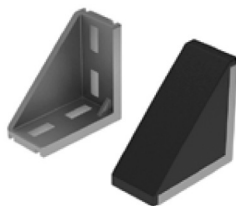
Model	Aluminum die-cast, profile 45 and up
Description	To connect two aluminum profiles or panels at right angles; the connection angle can be closed with the cover cap
Material	Angle: Aluminum die-cast Cover cap: Plastic PA, glass fiber reinforced Assembly set: Steel
Color	Cover cap: Black
Assembly Set	2 T-bolts - slot 10 - M8 × 25, 2 flange nuts M8
Pack Quantity	10 pieces

Connection Angle 43 / 42	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	10	54.2	093W422N10
Cover cap		9.0	093WA422
Gusset, with assembly set	10	103.0	093W422N10S01



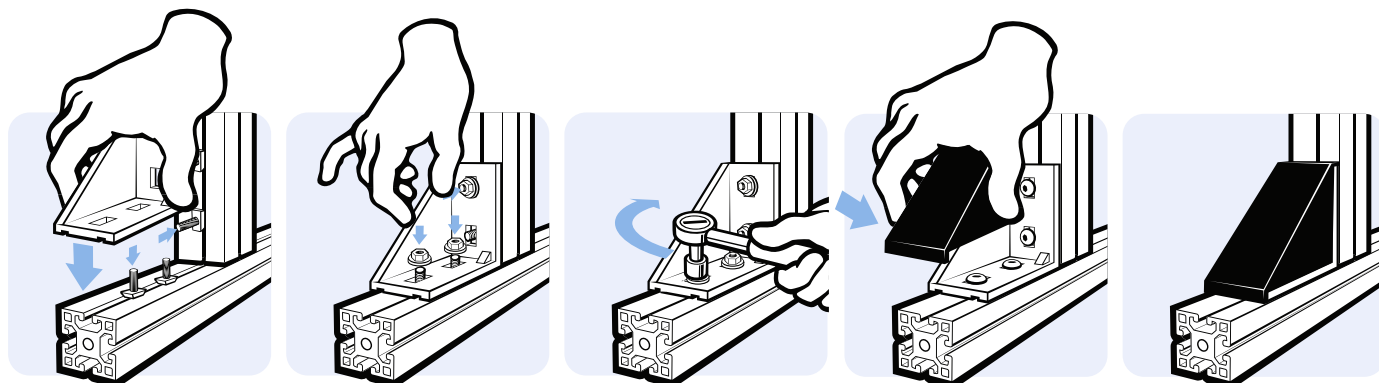
Connection Angle 45/90 (45x90 Gusset)

2



Model	Aluminum die-cast, profile 45 and up
Description	To connect two aluminum profiles or panels at right angles; the connection angle can be closed with the cover cap
Material	Angle: Aluminum die-cast Cover cap: Plastic PA, glass fiber reinforced Centering piece: Plastic PA, glass fiber reinforced Assembly set: Steel
Color	Cover cap: Black Centering piece: Natural
Assembly Set	4 T-bolts M8 × 25, 4 flange nuts M8
Pack Quantity	10 pieces

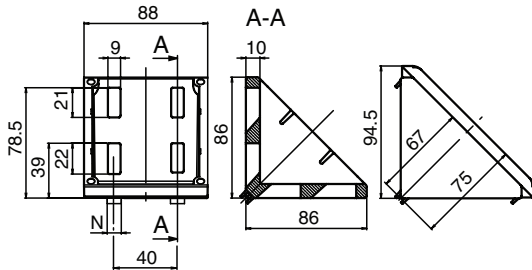
Connection Angle 45/90	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	No centering tab	161.5	093W451
	8	163.0	093W451N08
	10	165.0	093W451N10
Centering pieces	Slot 8 to slot 10	1.0	093W03
Cover cap		33.5	093WA451
Gusset, with assembly set	10	254.0	093W451N10S01



Connection Angle 90 (90x90 Gusset)

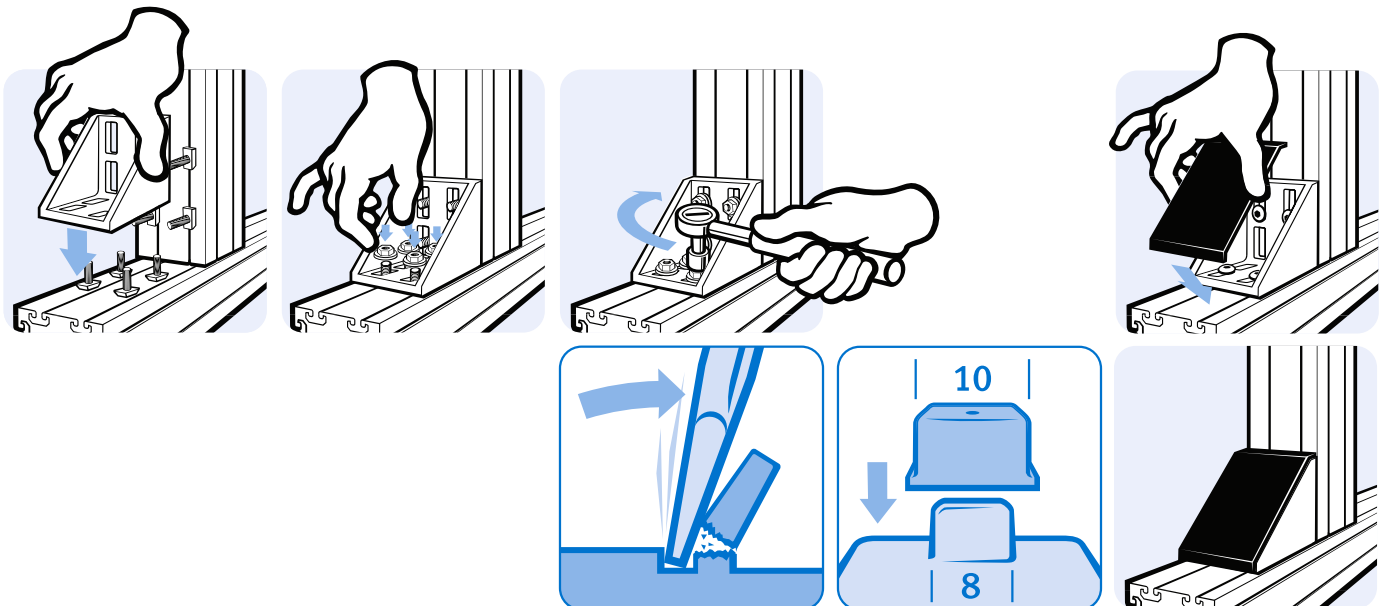


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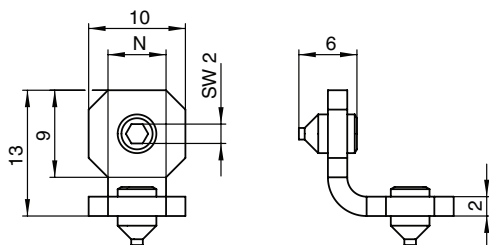
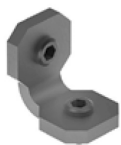
Model	Aluminum die-cast, profile 90 and up
Description	To connect two aluminum profiles or panels at right angles; the connection angle can be closed with the cover cap
Material	Angle: Aluminum die-cast Cover cap: Plastic PA, glass fiber reinforced Centering piece: Plastic PA, glass fiber reinforced Assembly set: Steel
Color	Cover cap: Black Centering piece: Black
Assembly Set	8 T-bolts - M8 × 25, 8 flange nuts M8
Pack Quantity	10 pieces

Connection Angle 90	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	No centering tab	339.0	093W901
	8	341.0	093W901N08
	10	358.0	093W901N10
Centering pieces	Slot 8 to slot 10	1.0	093W02
Cover cap		60.0	093WA901
Gusset, with assembly set	10	527.1	093W901N10S02



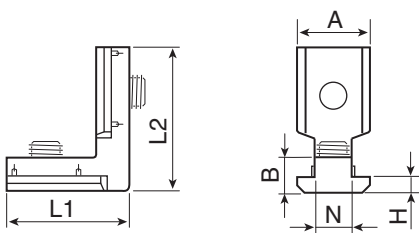
Inner Connector (Slot 6, 8 and 10)

2



Model	Stainless steel
Description	To connect two aluminum profiles; assembly without machining, can also be used as inner connector R Slot 6
Material	Stainless steel
Set	2 hexagon socket set screws
Pack Quantity	100 pieces

Inner Connector Slot 6	Hexagon Socket Set Screws	T-slot (N)	Weight (g)	Part Number (Pack Qty = 100)
Stainless steel	M4	6	3.0	099I9006

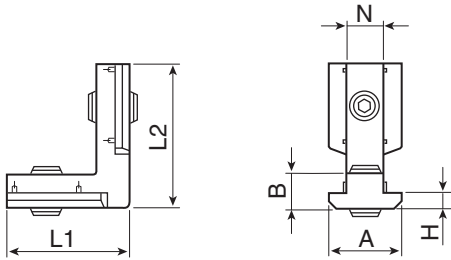


Model	Steel cast / zinc die-cast
Description	To connect two aluminum profiles, assembly without machining
Material	Inner Connector ST version: Zinc-plated cast steel Inner Connector ZN version: Zinc-plated zinc die-cast Hexagon socket set screws: Zinc-plated steel
Pack Quantity	10 pieces

Inner Connector	Hexagon Socket Set Screws	A (mm)	B (mm)	H (mm)	L1 (mm)	L2 (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
ST cast steel	M6	15.8	7.8	6.0	21.0	30.0	8	27.0	099I9008M
	M8	19.0	8.8	3.8	32.0	38.0	10	51.0	099I9010M
ZN zinc die-cast	M6	15.8	7.8	6.0	21.0	30.0	8	24.0	099I9008
	M8	19.0	8.8	3.8	32.0	38.0	10	44.0	099I9010

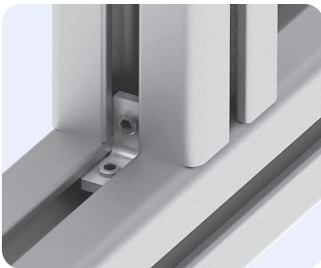
Inner Connector R

2

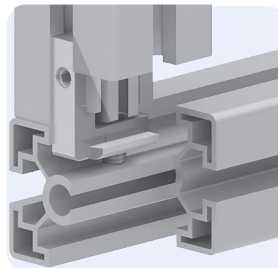


Model	Steel cast / zinc die-cast
Description	To connect two aluminum profiles, assembly without machining
Material	Inner Connector ST version: Zinc-plated cast steel Inner Connector ZN version: Zinc-plated zinc die-cast Hexagon socket set screws: Zinc-plated steel
Pack Quantity	10 pieces

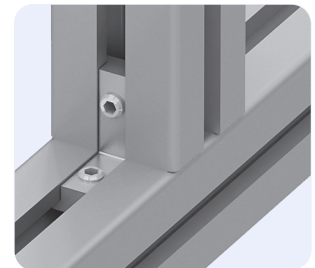
Inner Connector R	Hexagon Socket Set Screws	A (mm)	B (mm)	H (mm)	L1 (mm)	L2 (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
ST cast steel	M5	11.3	4.5	3.0	21.0	21.0	6	9.8	099I90R06M
	M6	15.8	7.8	6.0	21.0	30.0	8	27.0	099I90R08M
	M8	19.0	8.8	3.8	32.0	38.0	10	51.0	099I90R10M
ZN zinc die-cast	M5	11.3	4.5	3.0	21.0	21.0	6	8.0	099I90R06
	M6	15.8	7.8	6.0	21.0	30.0	8	24.0	099I90R08
	M8	19.0	8.8	3.8	32.0	38.0	10	45.0	099I90R10



Inner Connector (Slot 6)



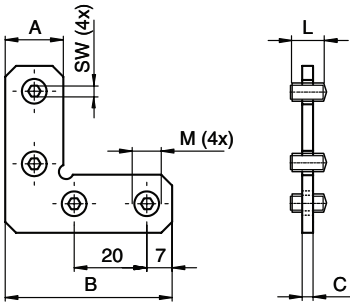
Inner Connector (Slot 8, 10)



Inner Connector R

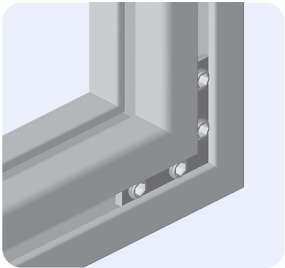
Miter Connector 90°

2



Model	Steel
Description	To connect two aluminum profiles
Material	Steel
Pack Quantity	10 pieces

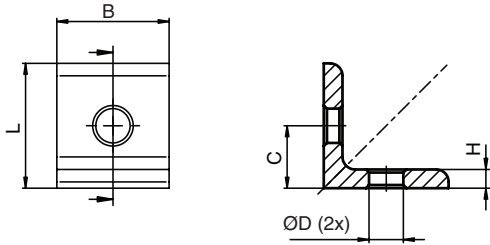
Miter Connector 90°	Hexagon Socket Set Screws	A (mm)	B (mm)	C (mm)	L (mm)	SW	T-Slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Steel	M8	16.0	46.0	3.0	8.0	4	8	33.0	099GV0890
	M10	20.2	60.0	3.0	10.0	5	10	59.0	099GV1090



Connection Angle, 2 Bore Holes, 1 Slot Version

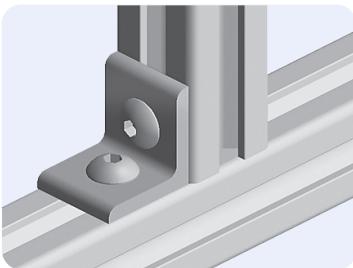


2



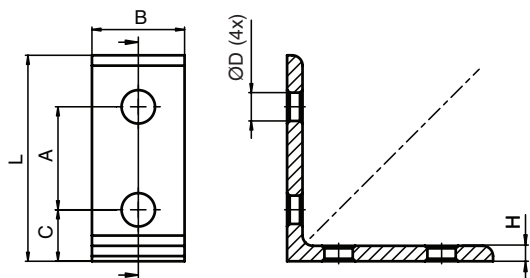
Model	Aluminum
Description	To connect two aluminum profiles at right angles
Material	Aluminum
Pack Quantity	10 pieces

Connection Angles		B (mm)	C (mm)	H (mm)	L (mm)	ØD (mm)	Weight (g)	Part Number (Pack Qty = 10)
6°	20	18.0	10.0	3.0	20.0	5.5	5.0	093WD20
8°	30	30.0	15.0	5.0	30.0	7.0	21.0	093WD30
10°	40	36.0	20.0	6.0	40.0	9.0	42.0	093WD40
10°	45	41.0	22.5	6.0	45.0	9.0	55.0	093WD45



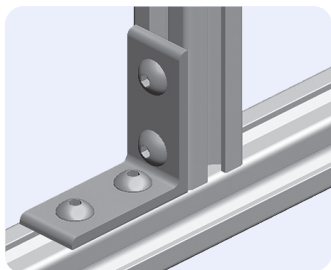
Connection Angle, 4 Bore Holes, 1 Slot Version

2

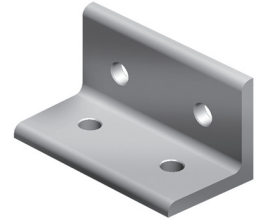


Model	Aluminum
Description	To connect two aluminum profiles at right angles
Material	Aluminum
Pack Quantity	10 pieces

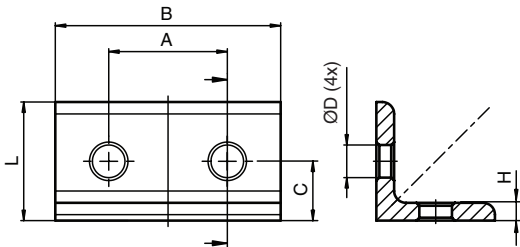
Connection Angles		A (mm)	B (mm)	C (mm)	H (mm)	L (mm)	ØD (mm)	Weight (g)	Part Number (Pack Qty = 10)
	20/40	20.0	18.0	10.0	3.0	40.0	5.5	11.0	093WD2040
	30/60	30.0	27.0	15.0	5.0	60.0	7.0	40.0	093WD3060
	40/80	40.0	36.0	20.0	6.0	80.0	9.0	85.0	093WD4080
	45/90	45.0	41.0	22.5	6.0	90.0	9.0	112.0	093WD4590



Connection Angle, 4 Bore Holes, 2 Slot Version

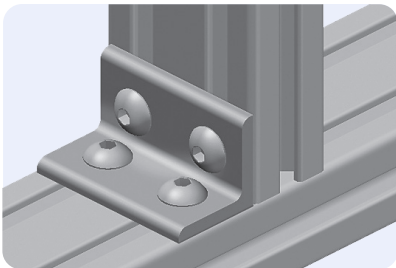


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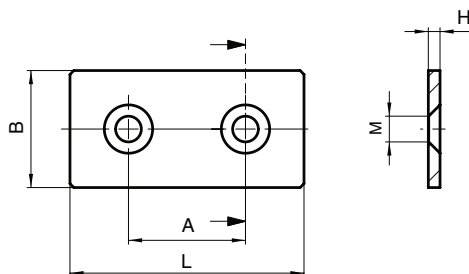
Model	Aluminum
Description	To connect two aluminum profiles at right angles
Material	Aluminum
Pack Quantity	10 pieces

Connection Angles		A (mm)	B (mm)	C (mm)	H (mm)	L (mm)	ØD (mm)	Weight (g)	Part Number (Pack Qty = 10)
	80/40	40.0	76.0	20.0	6.0	40.0	9.0	86.0	093WD8040
	90/45	45.0	86.0	22.5	6.0	45.0	9.0	112.0	093WD9045



Connection Plate

2



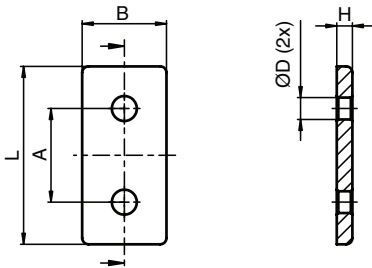
Model	Steel, profile 20 and up
Description	To connect two aluminum profiles
Material	Steel
Fastening	Countersunk screws
Pack Quantity	10 pieces

Connection Plate	A (mm)	B (mm)	H (mm)	L (mm)	For Screw	Weight (g)	Part Number (Pack Qty = 10)
 Black powder coated	20.0	20.0	3.0	40.0	2xM5	12.0	093V2040S



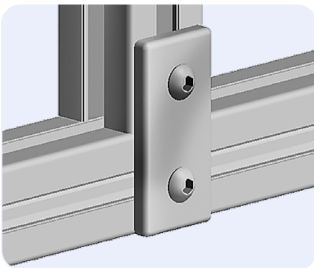
Connection Plate

2



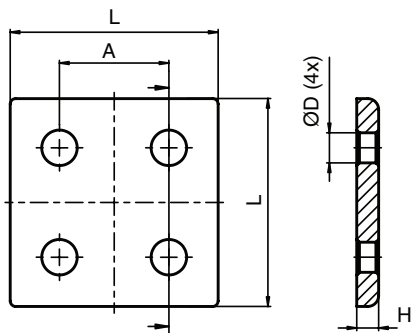
Model	Aluminum
Description	To connect two aluminum profiles
Material	Aluminum
Surface	Anodized
Pack Quantity	10 pieces

Connection Plate		A (mm)	B (mm)	H (mm)	L (mm)	ØD (mm)	Weight (g)	Part Number (Pack Qty = 10)
	20/40	20.0	18.0	4.0	38.0	5.5	7.0	093VA2040
	30/60	30.0	27.0	5.0	57.0	7.0	20.0	093VA3060
	40/80	40.0	36.0	6.0	76.0	9.0	42.0	093VA4080
	45/90	45.0	41.0	6.0	86.0	9.0	55.0	093VA4590



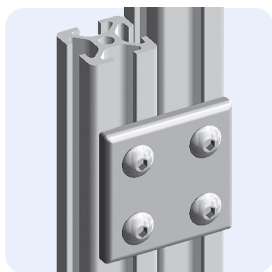
Connection Plate

2

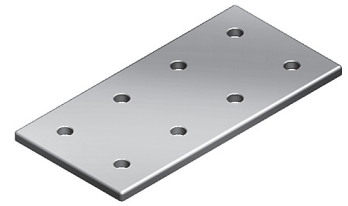


Model	Aluminum
Description	To connect two aluminum profiles
Material	Aluminum
Surface	Anodized
Pack Quantity	10 pieces

		A (mm)	H (mm)	L (mm)	ØD (mm)	Weight (g)	Part Number (Pack Qty = 10)
	40/40	20.0	4.0	38.0	5.5	15.0	093VA4040
	60/60	30.0	5.0	57.0	7.0	42.0	093VA6060
	80/80	40.0	6.0	76.0	9.0	90.0	093VA8080
	90/90	45.0	6.0	86.0	9.0	115.0	093VA9090

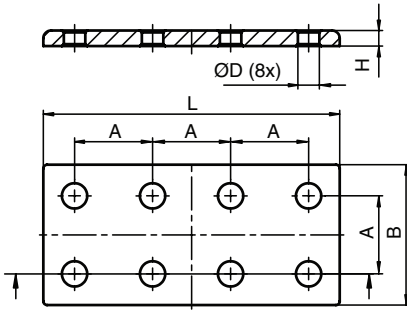


Connection Plate



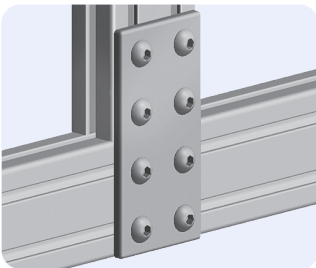
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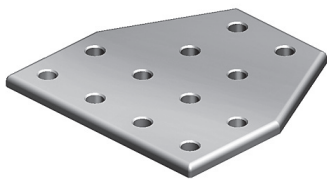
Model	Aluminum
Description	To connect two aluminum profiles
Material	Aluminum
Surface	Anodized
Pack Quantity	10 pieces

Connection Plate		A (mm)	B (mm)	H (mm)	L (mm)	ØD (mm)	Weight (g)	Part Number (Pack Qty = 10)
	40/80	20.0	36.0	4.0	76.0	5.5	27.0	093VD4080
	60/120	30.0	57.0	5.0	117.0	7.0	85.0	093VD60120
	80/160	40.0	76.0	6.0	156.0	9.0	185.0	093VD80160
	90/180	45.0	86.0	6.0	176.0	9.0	240.0	093VD90180

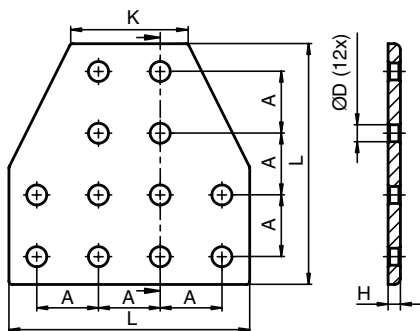


Connection Plate

2

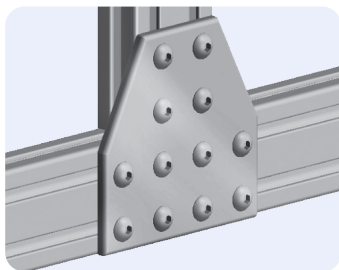


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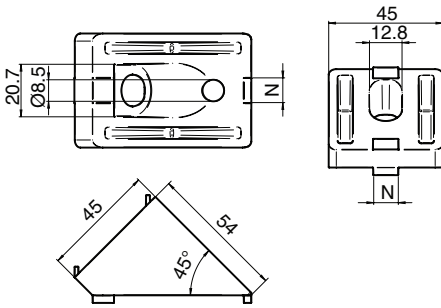
Model	Aluminum
Description	To connect two aluminum profiles
Material	Aluminum
Surface	Anodized
Pack Quantity	10 pieces

Connection Plate	A (mm)	H (mm)	K (mm)	L (mm)	ØD (mm)	Weight (g)	Part Number (Pack Qty = 10)
 80/80	20.0	4.0	38.0	78.0	5.5	55.0	093VT8080D
 120/120	30.0	5.0	57.0	117.0	7.0	154.0	093VT120120D
 160/160	40.0	6.0	76.0	156.0	9.0	330.0	093VT160160D
 180/180	45.0	6.0	86.0	176.0	9.0	425.0	093VT180180D



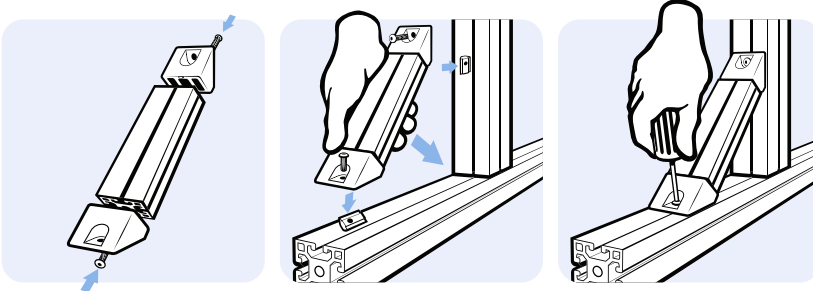
Gusset Connector 45, 45°

2



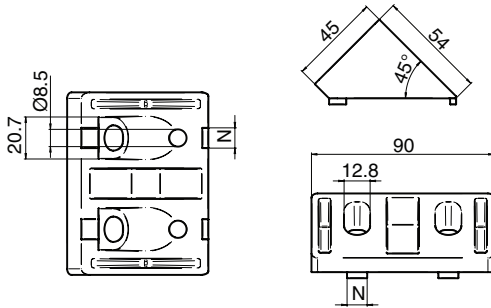
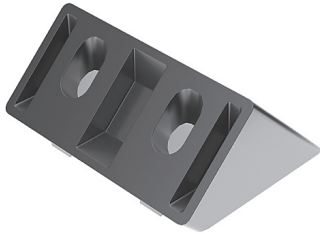
Model	Aluminum die-cast
Description	To connect two aluminum profiles at 45°
Material	Aluminum die-cast
Pack Quantity	10 pieces

Gusset Connector 45, 45°	T-slot (N)	For Screw	Weight (g)	Part Number (Pack Qty = 10)
Plain	10	M12	112.4	093WS45245N10R
Aluminum color	10	M12	112.4	093WS45245N10



Gusset Connector 90/45, 45°

2



Model	Aluminum die-cast
Description	To connect two aluminum profiles at 45°
Material	Aluminum die-cast
Pack Quantity	10 pieces

Gusset Connector 90/45, 45°	T-slot (N)	For Screw	Weight (g)	Part Number (Pack Qty = 10)
Plain	10	M12	216.2	093WS90145N10R
Aluminum color	10	M12	216.2	093WS90145N10

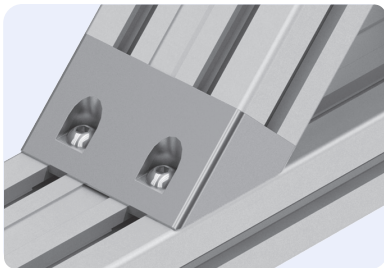
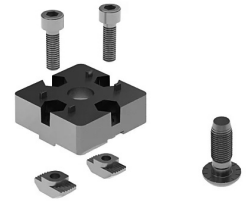
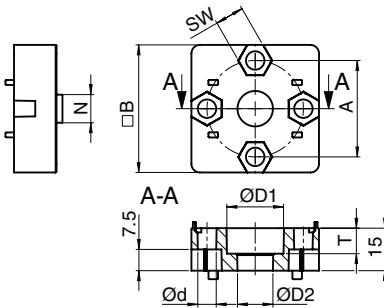
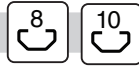


Plate Connector (T-connector 30x30, 40x40, 45x45)



2



Model	Aluminum die-cast
Description	To T-connect two aluminum profiles
Material	T-connector: Aluminum die-cast Assembly set: Steel
Surface	T-connector: Plain Assembly set: Zinc plated
Assembly Set 1	1 screw DIN 7984 - M8 × 30, 2 screws DIN 7984 - M5 × 16, 2 T-nuts - slot 8 - M5
Assembly Set 2	1 self forming screw S12 × 30 Torx T50, 2 screws DIN 7984 - M6 × 20, 2 T-nuts - slot 10 - M6
Pack Quantity	10 pieces

T-connector	A (mm)	B (mm)	D1 (mm)	D2 (mm)	T-slot (N)	SW (mm)	T (mm)	Weight (g)	Part Number (Pack Qty = 10)
Plain	21.0	3.0	13.6	8.5	8	8	6.0	20.0	099EA30300808R
	29.6	40	20.0	12.5	10	10	6.5	39.0	099EA40401012R
	34.0	45	20.0	12.5	10	10	9.0	50.0	099EA45451012R
Connector, incl. assembly set 1	21.0	30	13.6	8.5	8	8	6.0	52.0	099EA30300808RS01
Connector, incl. assembly set 2	29.6	40	20.0	12.5	10	10	6.5	89.0	099EA40401012RS01
	34.0	45	20.0	12.5	10	10	9.0	100.0	099EA45451012RS01

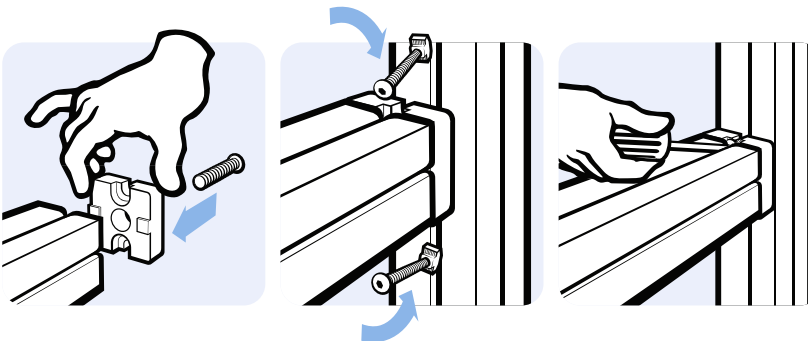
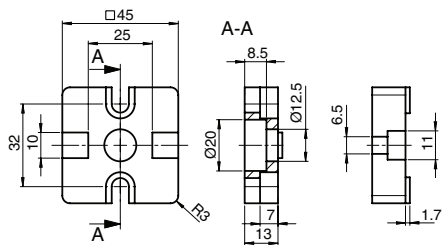
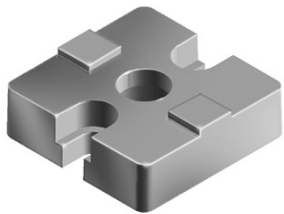


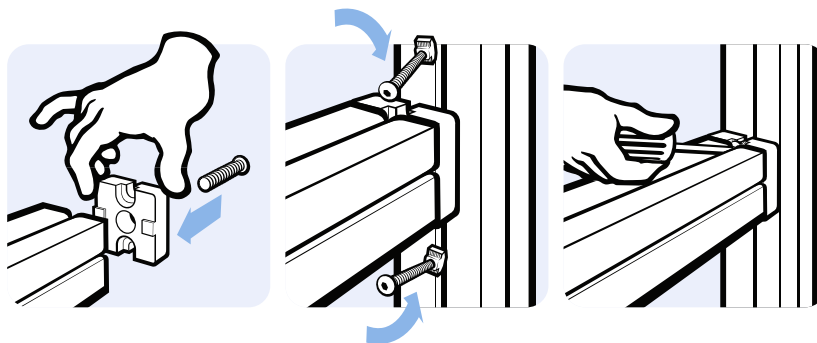
Plate Connector 45

2



Model	Zinc die-cast, slot 10
Description	To tee connect two aluminum profiles
Material	Zinc die-cast
Fastening	For screws: 1 × M12 × 30, 2 × M6 × 18 and 2 T-bolts or T-nuts
Pack Quantity	10 pieces

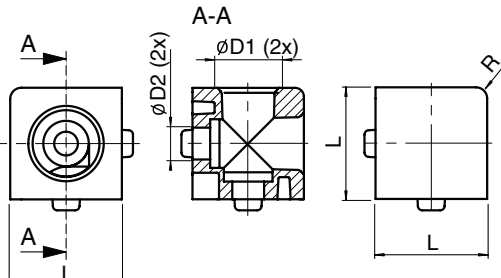
Plate Connector	Weight (g)	Part Number (Pack Qty = 10)
Plain	88.6	099E45451012R



Cube Connector 20/2

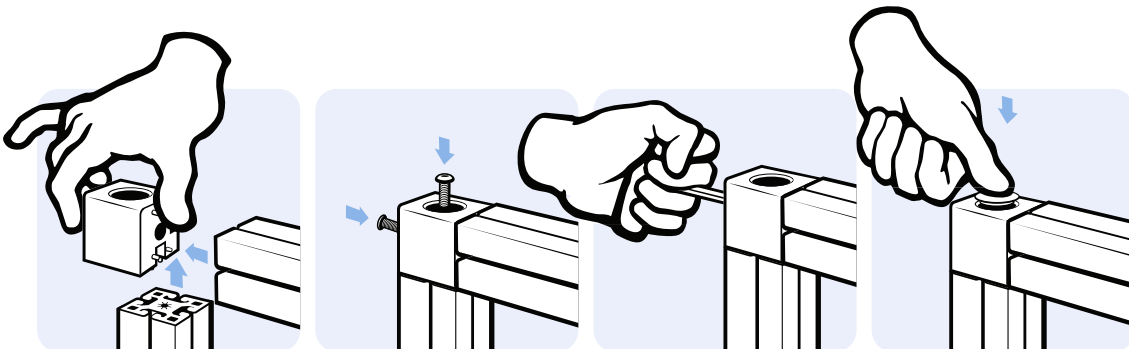


2



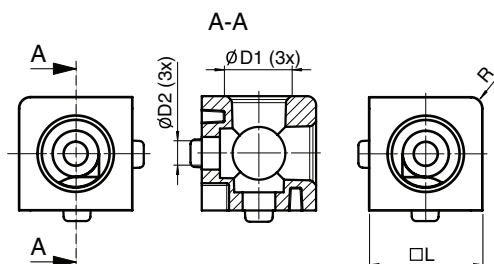
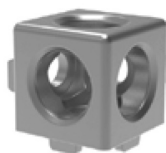
Model	Aluminum die-cast, with cover caps
Description	To connect two aluminum profiles at right angles; with cover caps to cover the bores
Material	Cube connector: Aluminum die-cast Cover caps: Plastic PA
Assembly Set 2	2 self-forming screws S6 x 16 - AF4
Pack Quantity	10 pieces

Cube Connector 20/2	D1 (mm)	D2 (mm)	L (mm)	T-slot (N)	R (mm)	Weight (g)	Part Number (Pack Qty = 10)
Connector only / black	12.0	6.3	20.0	6	1.5	10.0	093WW201N06R
Connector with assembly set 2 / black	12.0	6.3	20.0	6	1.5	10.0	093WW201N06RS



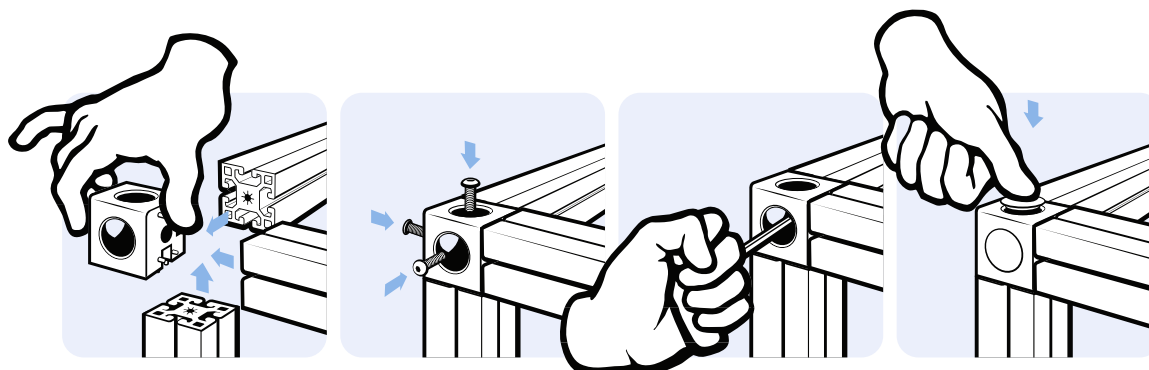
Cube Connector 20/3

2



Model	Aluminum die-cast, with cover caps
Description	To connect three aluminum profiles at right angles; with cover caps to cover the bores
Material	Cube connector: Aluminum die-cast Cover caps: Plastic PA
Assembly Set 1	3 screws ISO 7380 - M5 x 14
Pack Quantity	10 pieces

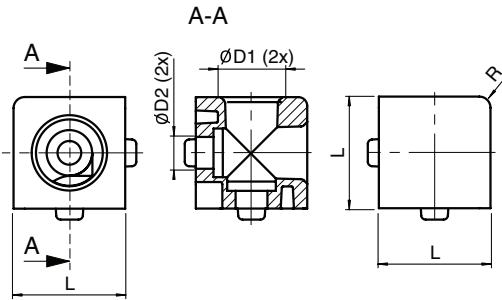
Cube Connector 20/3	D1 (mm)	D2 (mm)	L (mm)	T-slot (N)	R (mm)	Weight (g)	Part Number (Pack Qty = 10)
Connector only / black	12.0	6.3	20.0	6	1.5	10.0	093WW202N06R
Connector with assembly set 1	12.0	6.3	20.0	6	1.5	10.0	093WW202N06RS



Cube Connector 30/2

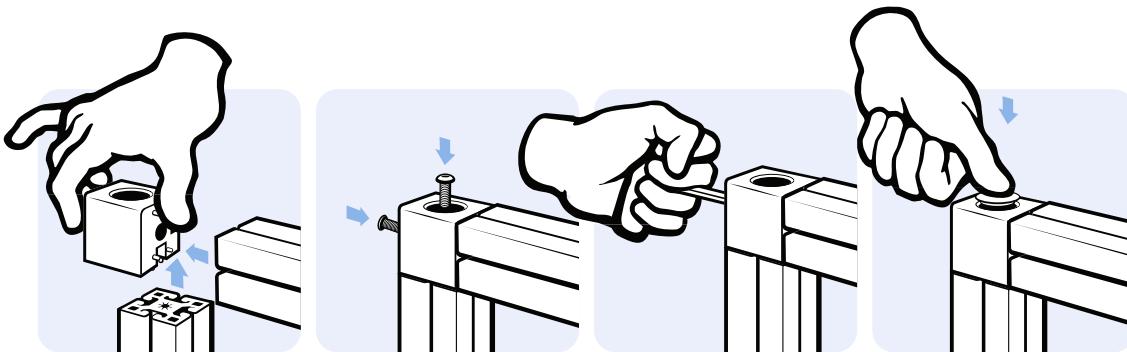


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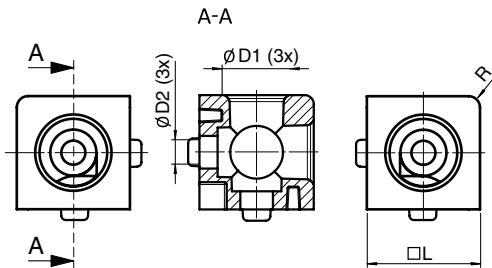
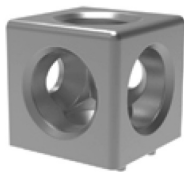
Model	Aluminum die-cast, with cover caps
Description	To connect two aluminum profiles at right angles; with cover caps to cover the bores
Material	Cube connector: Aluminum die-cast Cover caps: Plastic PA Assembly set: Steel
Assembly Set 3	2 self-forming screws S8 × 25 - SW 5
Pack Quantity	10 pieces

Cube Connector 30/2	D1 (mm)	D2 (mm)	L (mm)	T-slot (N)	R (mm)	Weight (g)	Part Number (Pack Qty = 10)
Connector only / black	18.0	9.0	30.0	8	2.0	38.5	093WW303N08R
Connector with assembly set 3 / black	18.0	9.0	30.0	8	2.0	16.0	093WW303N08RS



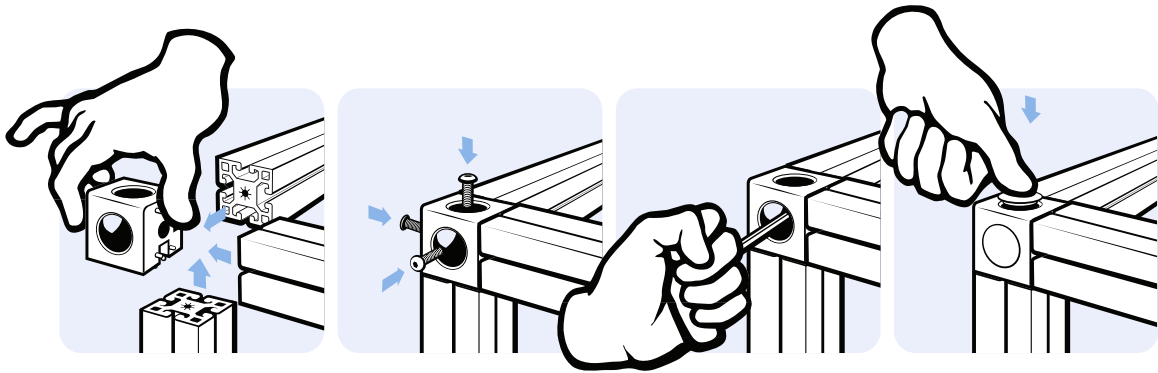
Cube Connector 30/3

2



Model	Aluminum die-cast, with cover caps
Description	To connect three aluminum profiles at right angles; with cover caps to cover the bores
Material	Cube connector: Aluminum die-cast Cover caps: Plastic PA Assembly set: Steel
Assembly Set 3	3 self-forming screws S8 × 25 - SW 5
Pack Quantity	10 pieces

Cube Connector 30/3	D1 (mm)	D2 (mm)	L (mm)	T-slot (N)	R (mm)	Weight (g)	Part Number (Pack Qty = 10)
Connector only / black	18.0	9.0	30.0	8	2.0	38.5	093WW304N08R
Connector with assembly set 3 / black	18.0	9.0	30.0	8	2.0	50.0	093WW304N08RS

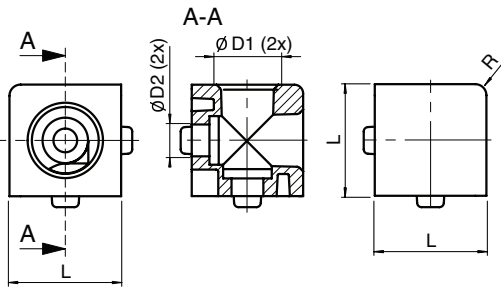


Cube Connector 40/2



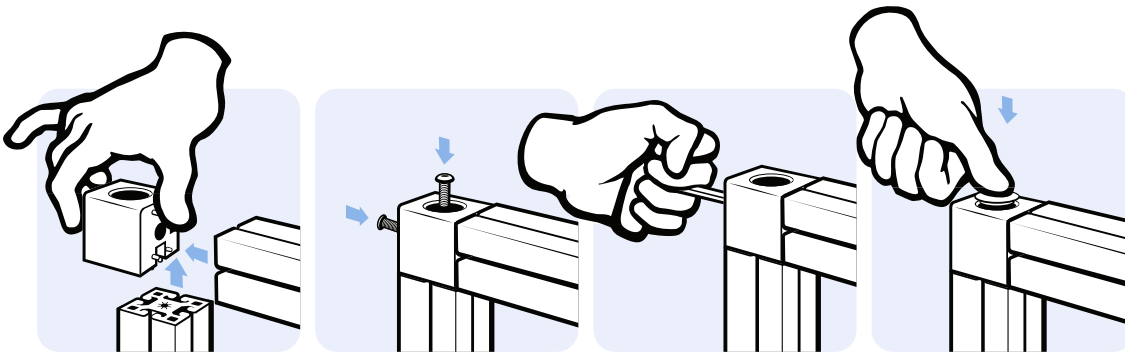
2

10



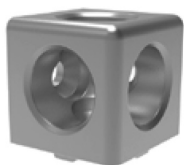
Model	Aluminum die-cast, with cover caps
Description	To connect two aluminum profiles at right angles; with cover caps to cover the bores
Material	Cube connector: Aluminum die-cast Cover caps: Plastic PA Assembly set: Steel
Assembly Set 4	2 self-forming screws S12 × 30 - Torx T50
Pack Quantity	10 pieces

Cube Connector 40/2	D1 (mm)	D2 (mm)	L (mm)	T-slot (N)	R (mm)	Weight (g)	Part Number (Pack Qty = 10)
Connector only / black	24.0	12.5	40.0	10	3.0	108.3	093WW407N10R
Connector with assembly set 4 / black	24.0	12.5	40.0	10	3.0	108.3	093WW407N10RS

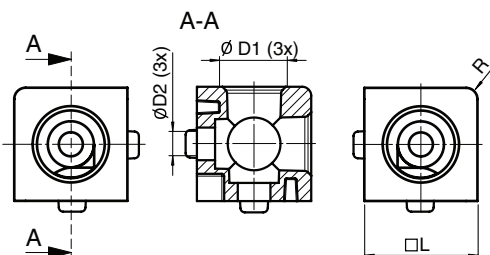


Cube Connector 40/3

2

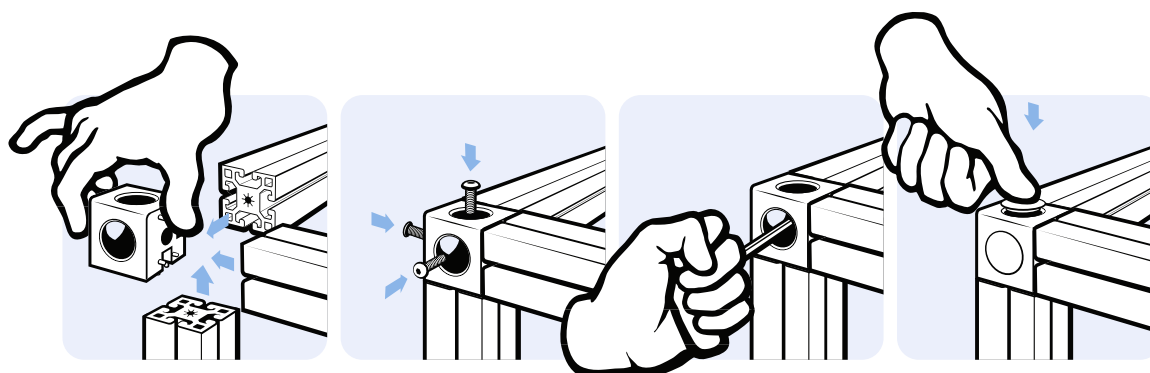


10



Model	Aluminum die-cast, with cover caps
Description	To connect three aluminum profiles at right angles; with cover caps to cover the bores
Material	Cube connector: Aluminum die-cast Cover caps: Plastic PA Assembly set: Steel
Assembly Set 4	3 self-forming screws S12 × 30 - Torx T50
Pack Quantity	10 pieces

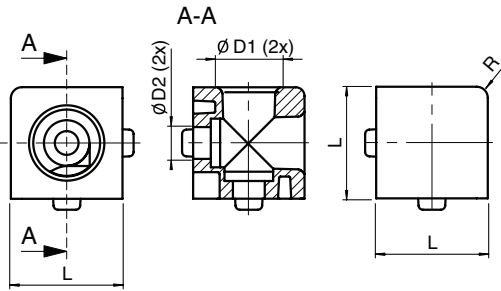
Cube Connector 40/3	D1 (mm)	D2 (mm)	L (mm)	T-slot (N)	R (mm)	Weight (g)	Part Number (Pack Qty = 10)
Connector only / black	24.0	12.5	40.0	10	3.0	87.3	093WW408N10R
Connector with assembly set 4 / black	24.0	12.5	40.0	10	3.0	87.3	093WW408N10RS



Cube Connector 45/2

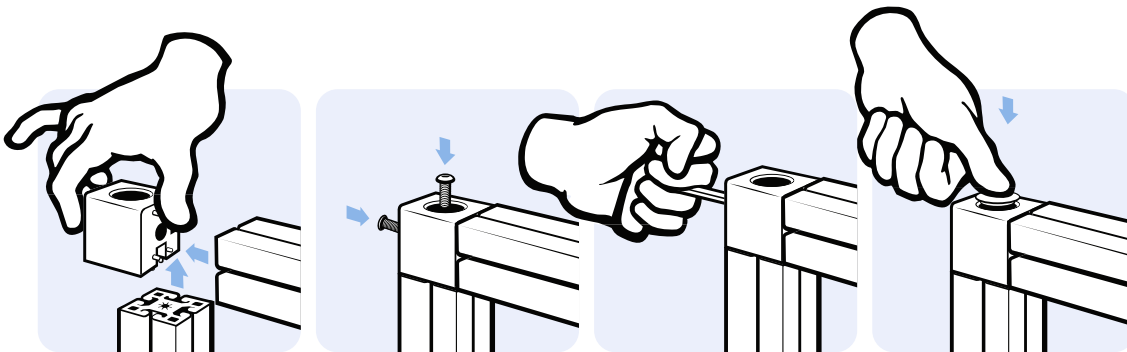


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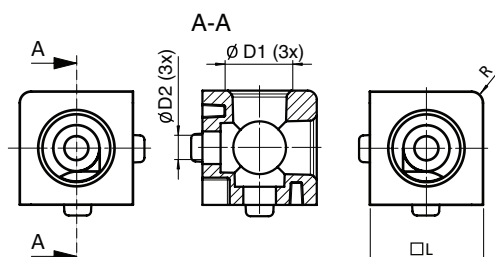
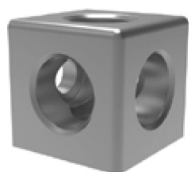
Model	Aluminum die-cast, with cover caps
Description	To connect two aluminum profiles at right angles; with cover caps to cover the bores
Material	Cube connector: Aluminum die-cast Cover caps: Plastic PA Assembly set: Steel
Assembly Set 4	2 self-forming screws S12 x 30 - Torx T50
Pack Quantity	10 pieces

Cube Connector 45/2	D1 (mm)	D2 (mm)	L (mm)	T-slot (N)	R (mm)	Weight (g)	Part Number (Pack Qty = 10)
Connector only / black	24.0	13.0	45.0	10	3.0	151.5	093WW453N10R
Connector with assembly set 4 / black	24.0	13.0	45.0	10	3.0	157.5	093WW453N10RS



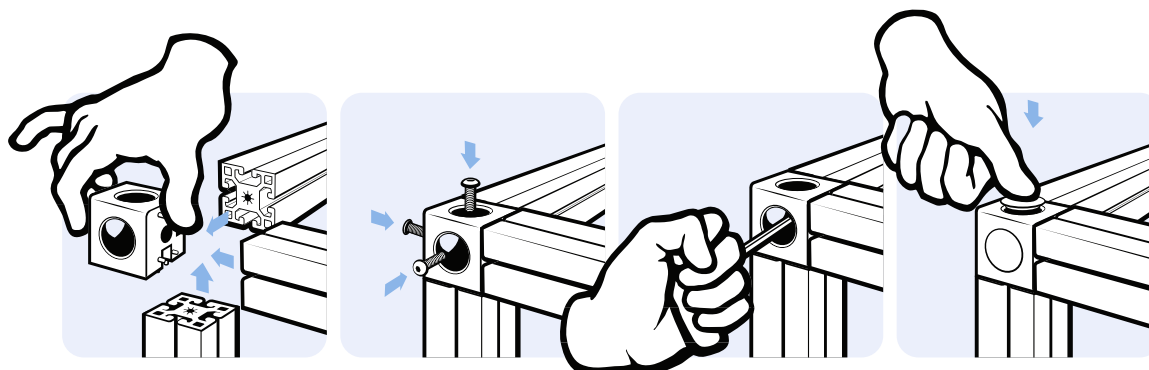
Cube Connector 45/3

2



Model	Aluminum die-cast, with cover caps
Description	To connect three aluminum profiles at right angles; with cover caps to cover the bores
Material	Cube connector: Aluminum die-cast Cover caps: Plastic PA Assembly set: Steel
Assembly Set 4	3 self-forming screws S12 × 30 - Torx T50
Pack Quantity	10 pieces

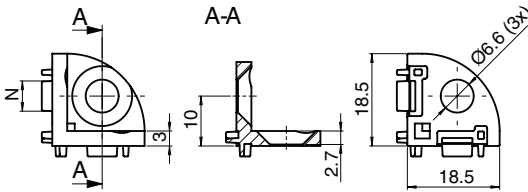
Cube Connector 45/3	D1 (mm)	D2 (mm)	L (mm)	T-slot (N)	R (mm)	Weight (g)	Part Number (Pack Qty = 10)
Connector only / black	24.0	13.0	45.0	10	3.0	151.5	093WW454N10R
Connector with assembly set 4 / black	24.0	13.0	45.0	10	3.0	161.0	093WW454N10RS



3-Way Connection Angle 20 (Corner Bracket)

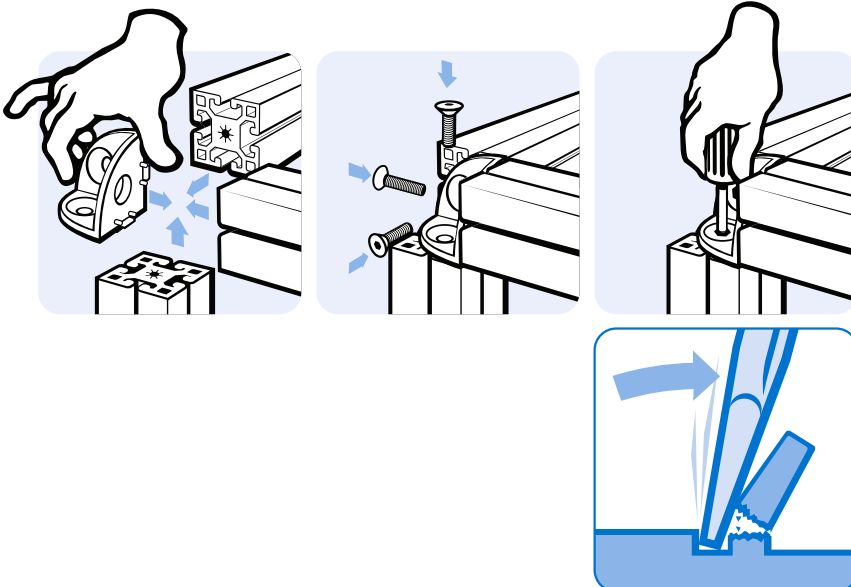


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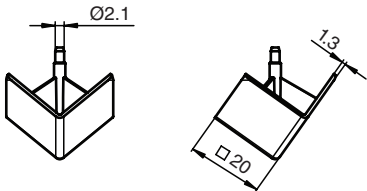
Model	Zinc die-cast, for profile 20
Description	To connect up to three aluminum profiles at right angles
Material	Zinc die-cast
Fastening	M6 or S6 flathead screw
Pack Quantity	50 pieces

3-Way Connection Angle 20	T-slot (N)	Fastener Required	Weight (g)	Part Number (Pack Qty = 50)
	6	M6 / S6 flathead	10.0	093WE202N06



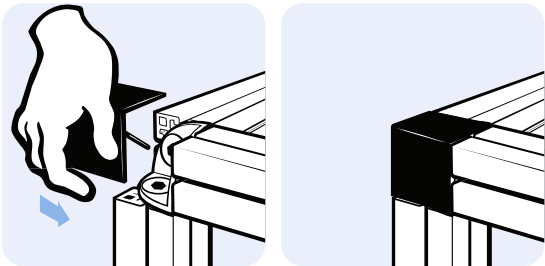
Cover Cap for 3-Way Connection Angle 20 (20x20 Square Cap)

2



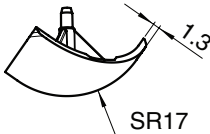
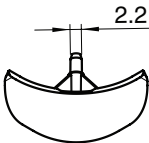
Model	Plastic PA, profile 20, square
Description	To cover the 3-way connection angle
Material	Plastic PA, glass fiber reinforced
Color	Black
Pack Quantity	50 pieces

Cover Cap Square	Weight (g)	Part Number (Pack Qty = 50)
	3.0	093WEA202A



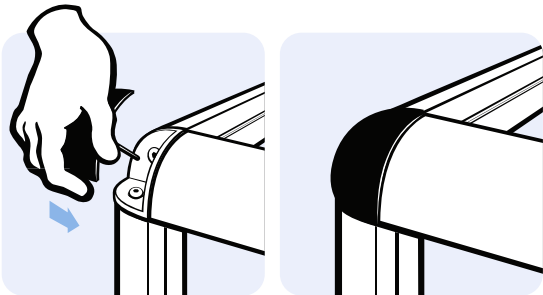
Cover Cap for 3-Way Connection 20x20R (20x20 Round Cap)

2



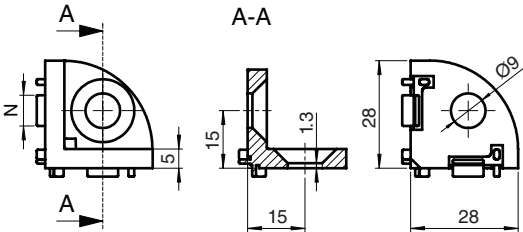
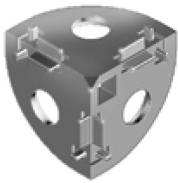
Model	Plastic PA, profile 20, round
Description	To cover the 3-way connection angle
Material	Plastic PA, glass fiber reinforced
Color	Black
Pack Quantity	50 pieces

Cover Cap Round	Weight (g)	Part Number (Pack Qty = 50)
	2.0	093WEA202B



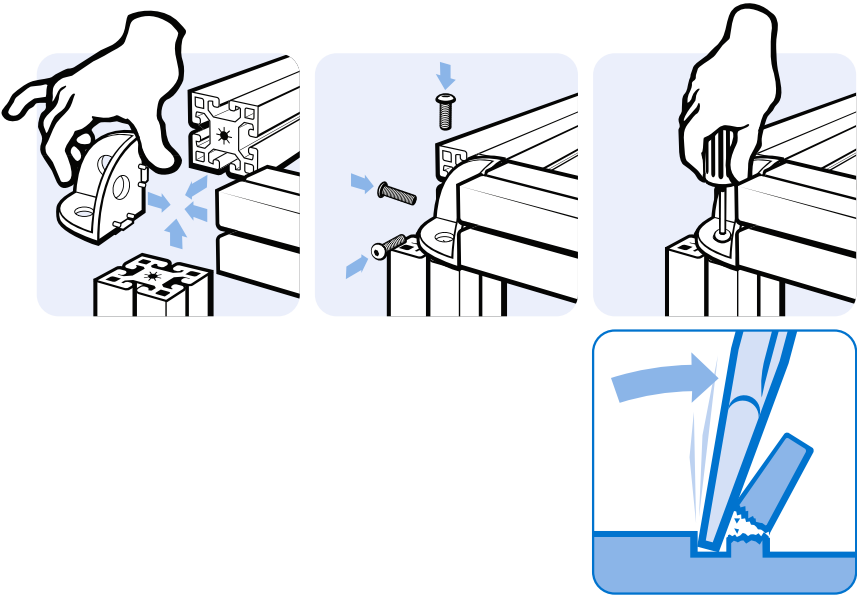
3-Way Connection (30x30 Corner Connector)

2

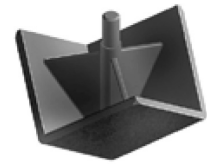


Model	Zinc die-cast, for profile 30
Description	To connect up to three aluminum profiles at right angles
Material	Zinc die-cast
Fastening	M8 flathead screws
Pack Quantity	50 pieces

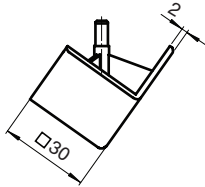
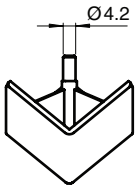
3-Way Connection 30x30	T-slot (N)	Fastener Required	Weight (g)	Part Number (Pack Qty = 50)
	8	M8 flathead	39.0	093WE301N08



Square Cover Cap for 3-Way Connection Angle 30 (30x30 Square Cap)

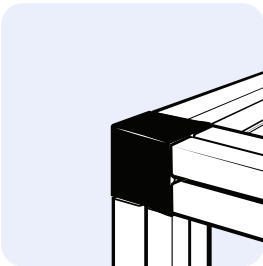
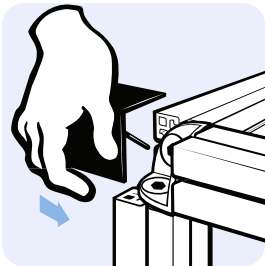


2



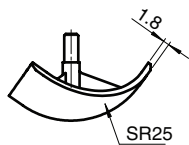
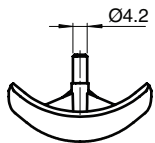
Model	Plastic PA, profile 30, square
Description	To cover the 3-way connection angle
Material	Plastic PA, glass fiber reinforced
Color	Black
Pack Quantity	50 pieces

Cover Cap Square	Weight (g)	Part Number (Pack Qty = 50)
	10.0	093WEA301A



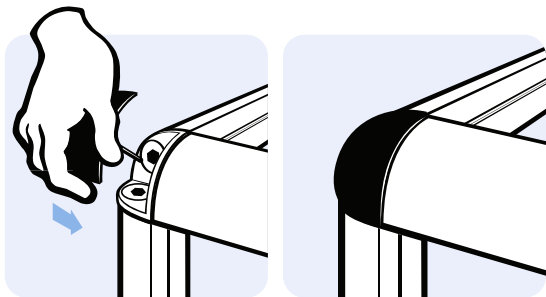
Cover Cap for 3-way Connection 30x30R (30x30 Round Cap)

2



Model	Plastic PA, profile 30, round
Description	To cover the 3-way connection angle
Material	Plastic PA, glass fiber reinforced
Color	Black
Pack Quantity	50 pieces

Cover Cap Round	Weight (g)	Part Number (Pack Qty = 50)
	8.0	093WEA301B

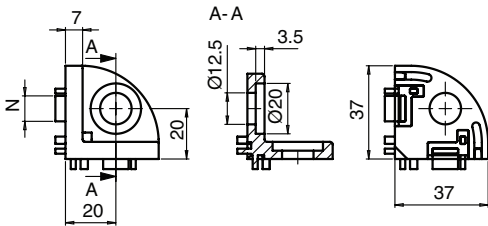


3-Way Connection Angle 40 Corner Bracket



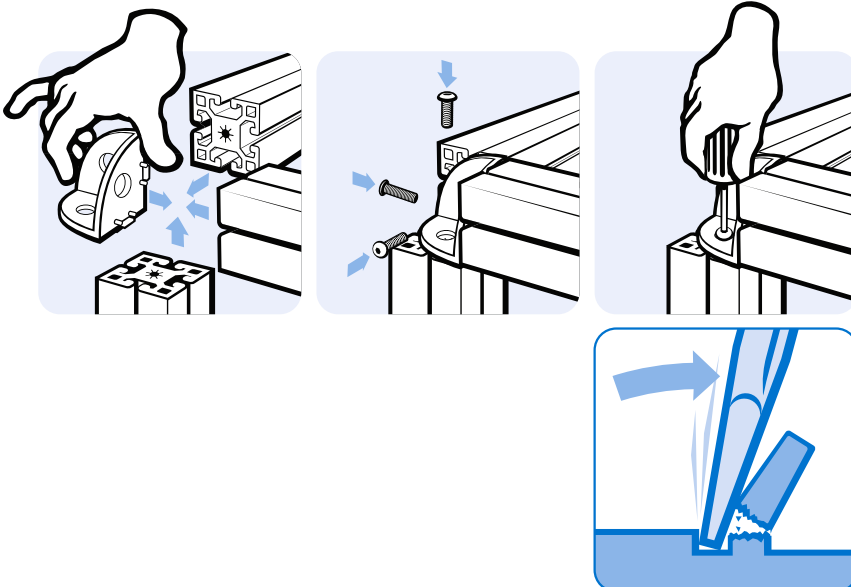
2

10



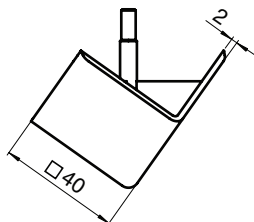
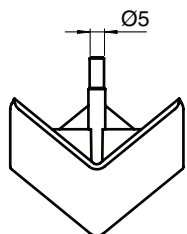
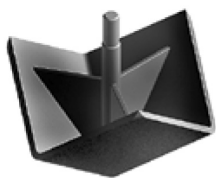
Model	Zinc die-cast, profile 40
Description	To connect up to three aluminum profiles at right angles
Material	Zinc die-cast
Fastening	M12 or S12 flathead screw
Pack Quantity	50 pieces

3-Way Connection Angle 40	T-slot (N)	Fastener Required	Weight (g)	Part Number (Pack Qty = 50)
	10	M12 / S12 flathead	81.0	093WE405N10



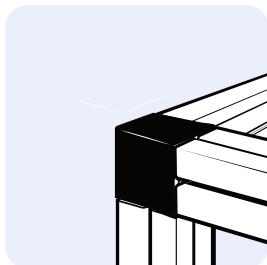
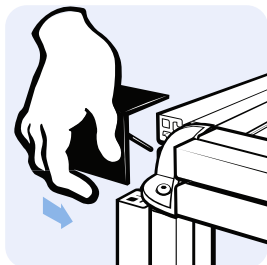
Cover Cap for 3-Way Connection Angle 40 (40x40 Square Cap)

2



Model	Plastic PA, profile 40, square
Description	To cover the 3-way connection angle
Material	Plastic PA, glass fiber reinforced
Color	Black
Pack Quantity	50 pieces

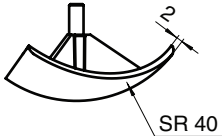
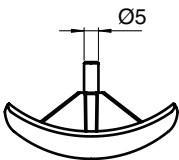
Cover Cap Square	Weight (g)	Part Number (Pack Qty = 50)
	18.0	093WEA405A



Cover Cap for 3-Way Connection 40x40R (40x40 Round Cap)

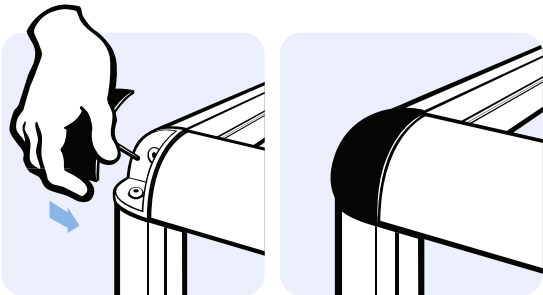


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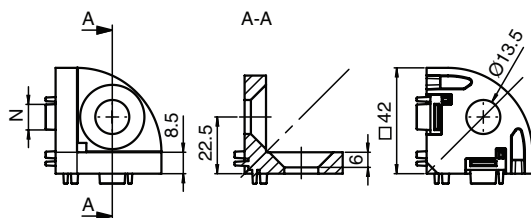
Model	Plastic PA, profile 40, round
Description	To cover the 3-way connection angle
Material	Plastic PA, glass fiber reinforced
Color	Black
Pack Quantity	50 pieces

Cover Cap Round	Weight (g)	Part Number (Pack Qty = 50)
	18.0	093WEA405B



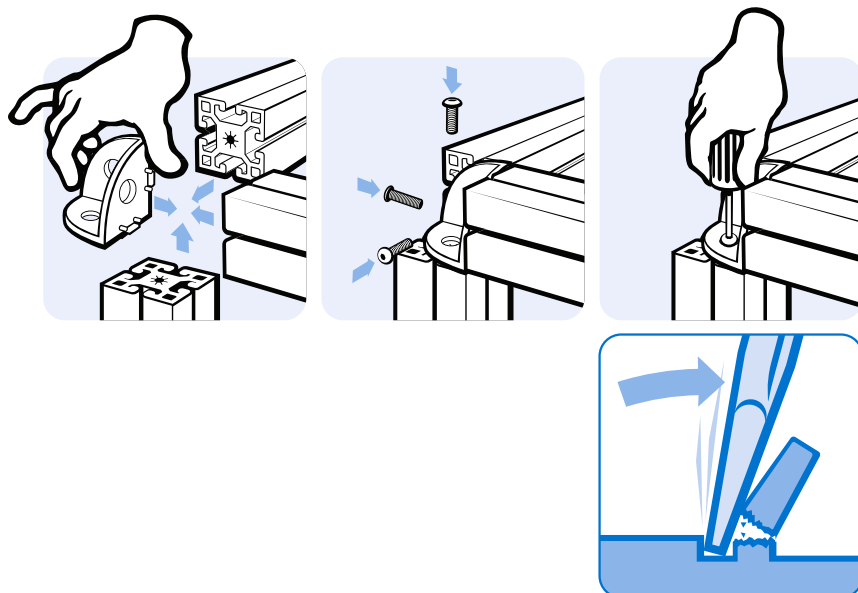
3-Way Connection Angle 45 (Corner Bracket)

2

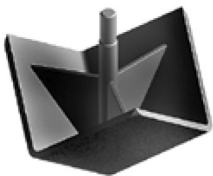


Model	Zinc die-cast, profile 45
Description	To connect up to three aluminum profiles at right angles
Material	Zinc die-cast
Fastening	M12 flathead screws
Pack Quantity	50 pieces

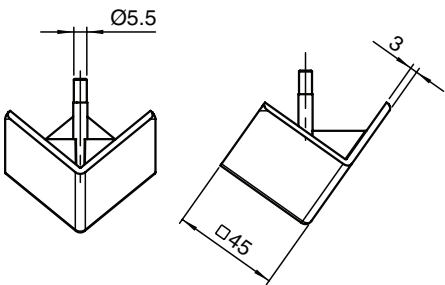
3-Way Connection Angle 45	T-slot (N)	Fastener Required	Weight (g)	Part Number (Pack Qty = 50)
	10	M12 flathead	132.0	093WE452N10



Cover Cap for 3-Way Connection Angle 45 (45x45 Square Cap)

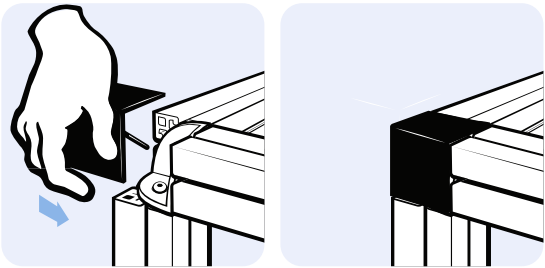


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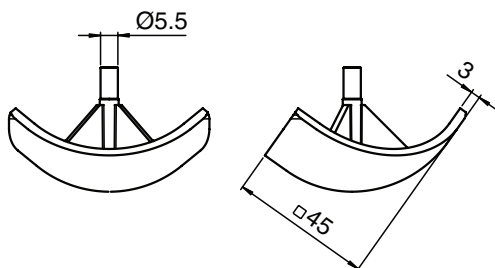
Model	Plastic PA, profile 45, square
Description	To cover the 3-way connection angle
Material	Plastic PA, glass fiber reinforced
Color	Black
Pack Quantity	50 pieces

Cover Cap Square	Weight (g)	Part Number (Pack Qty = 50)
	28.0	093WEA452A



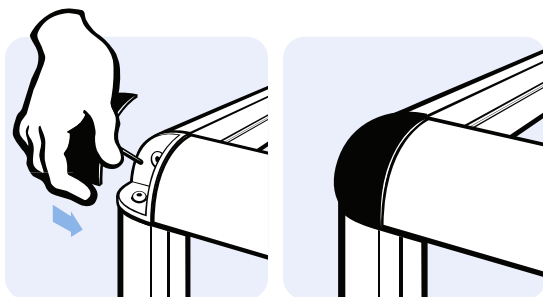
Cover Cap for 3-Way Connection 45x45R (45x45 Round Cap)

2

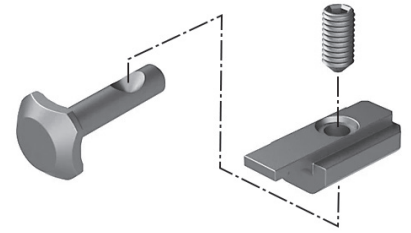


Model	Plastic PA, profile 45, round
Description	To cover the 3-way connection angle
Material	Plastic PA, glass fiber reinforced
Color	Black
Pack Quantity	50 pieces

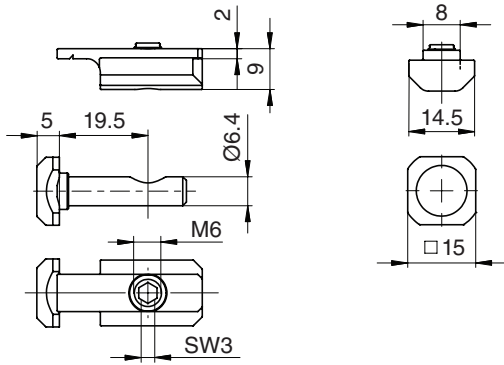
Cover Cap Round	Weight (g)	Part Number (Pack Qty = 50)
	16.0	093WEA452B



Central Connector

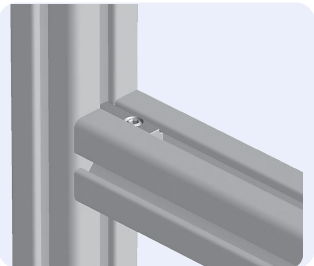


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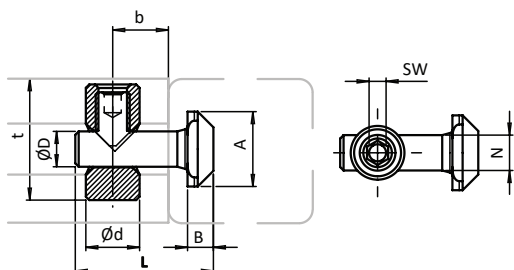
Model	Steel
Description	To connect two aluminum profiles at right angles
Material	Zinc plated steel
Pack Quantity	10 pieces

ESD	Weight (g)	Part Number (Pack Qty = 10)
 Electrostatically discharging	30.0	099ZV0830



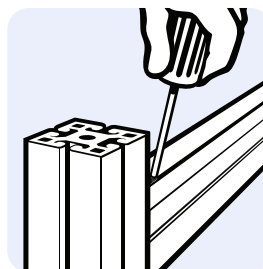
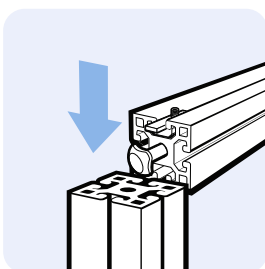
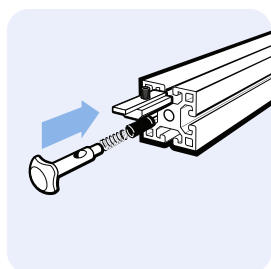
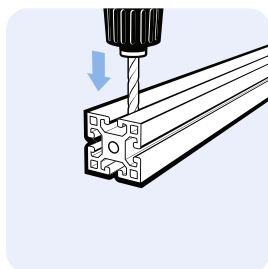
Central Connector (0°, 90° Quick Connector)

2



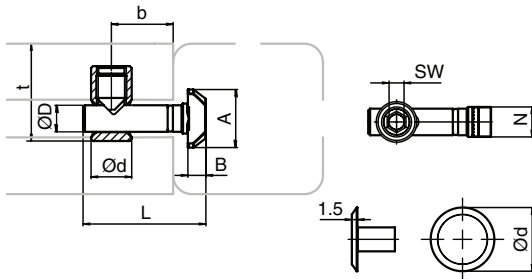
Model	Stainless steel
Description	To connect two aluminum profiles at right angles; a hole must be drilled through one of the profiles to provide access to the tightening screw
Material	Stainless steel
Pack Quantity	10 pieces

Central Connector	A (mm)	B (mm)	b (mm)	Ød (mm)	D (mm)	L (mm)	T-slot (N)	SW (mm)	Weight (g)	Part Number (Pack Qty = 10)
0° / 90°	11.0	3.8	10.0	8.0	5.2	20.3	6	2.5	9.5	099B060805



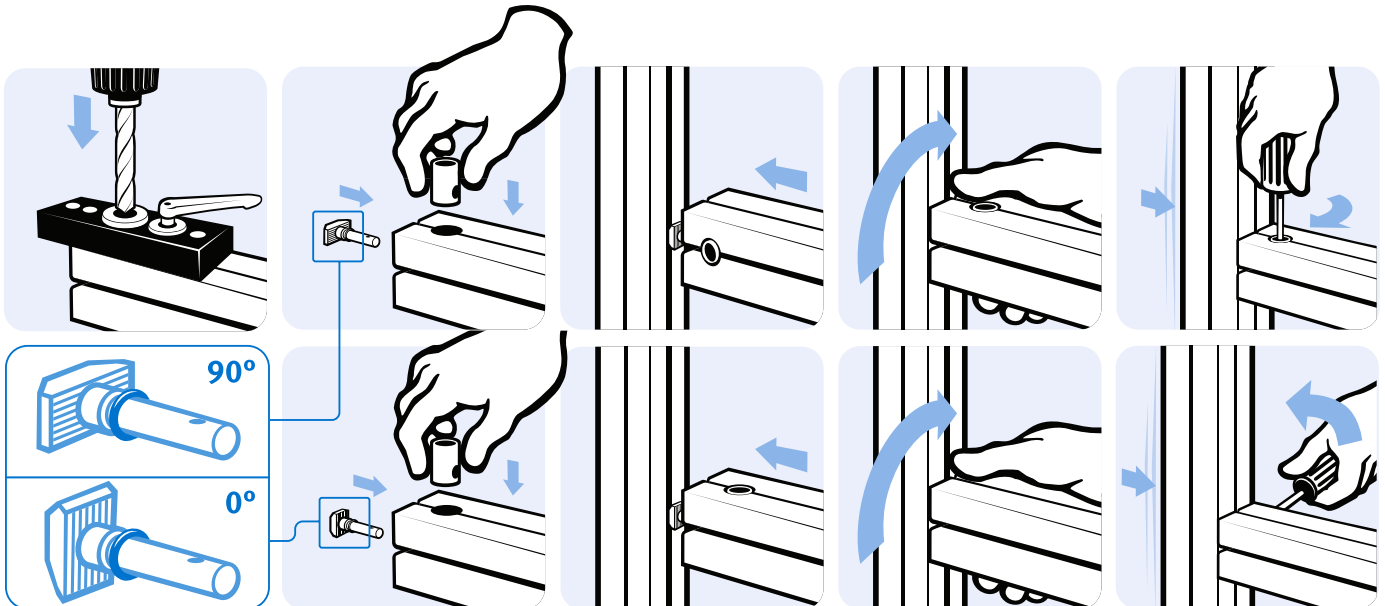
Central Connector (0°, 90° Quick Connector)

2



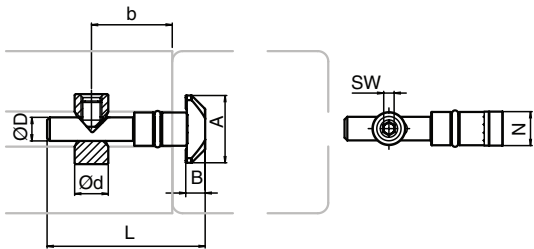
Model	Steel
Description	To connect two aluminum profiles at right angles; a blind or through hole must be drilled through one of the profiles to provide access to the tightening screw
Material	Steel
Pack Quantity	10 pieces
Cover Cap Tip	*(1) = profile 40; (2) = profile 45; (3) = profile 50

Central Connector Angle	A (mm)	B (mm)	D (mm)	L (mm)	T-slot (N)	SW (mm)	Weight (g)	Part Number (Pack Qty = 10)
0°	15.5	4.8	7.1	33.0	8	4	21.0	099B08110700
90°	15.5	4.8	7.1	33.0	8	4	20.0	099B08110790
0°	19.6	5.5	7.1	40.0	8 / 10	4	26.0	099B08110700S01
90°	19.6	5.5	7.1	40.0	8 / 10	4	26.0	099B08110790S01
0°	19.6	5.5	9.8	45.5	10	6	56.0	099B10171000
90°	19.6	5.5	9.8	45.5	10	6	56.0	099B10171090
Cover cap					10 *(1) *(2)		0.6	091107
					10 *(3)		0.6	091108



Central Connector (0°, 90° Small Diameter Quick Connector)

2

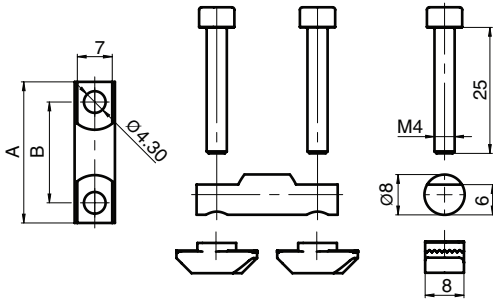


Model	Steel
Description	To connect two aluminum profiles at right angles; a through hole must be drilled into one of the profiles to provide access to the tightening screw, the slot walls are not affected by this; the bushing fits flush with the slot base, thus leaving both slots free to use; the slot can be completely covered with a cover profile
Material	Zinc plated steel
Pack Quantity	10 pieces

Central Connector Angle	A (mm)	B (mm)	b (mm)	Ød (mm)	D (mm)	L (mm)	T-slot (N)	SW (mm)	Weight (g)	Part Number (Pack Qty = 10)
0°	19.4	5.3	22.5	9.8	6.8	45.6	10	3	29.0	099B10101000
90°	19.4	5.3	22.5	9.8	6.8	45.6	10	3	29.0	099B10101090

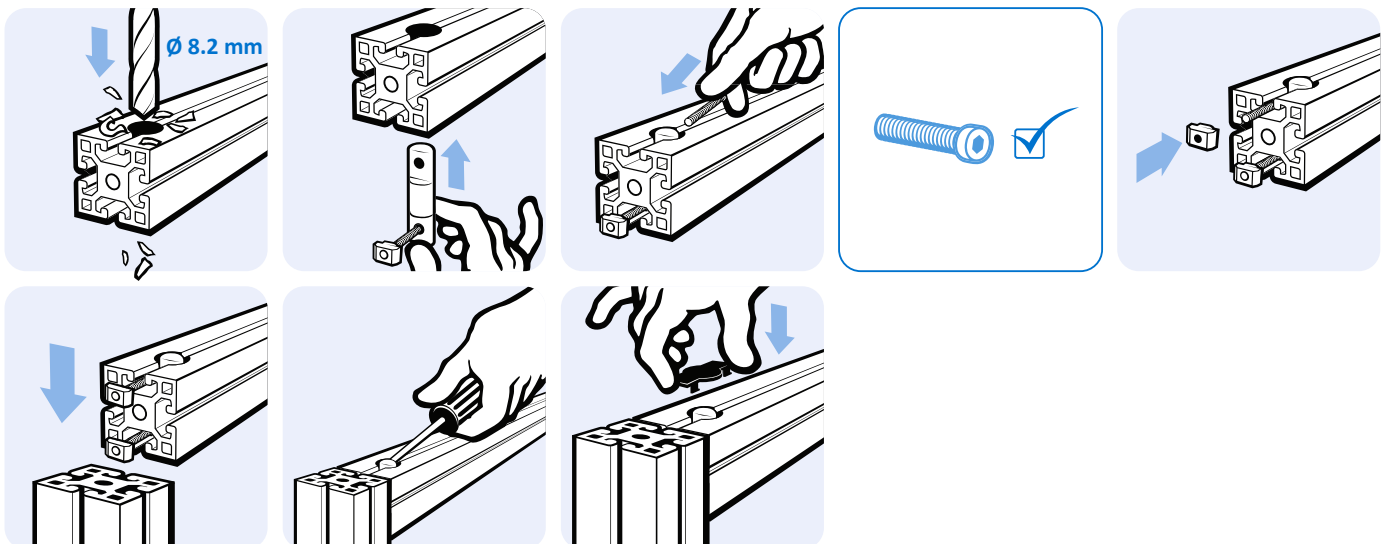
D8x28 Bolt Connectors

2



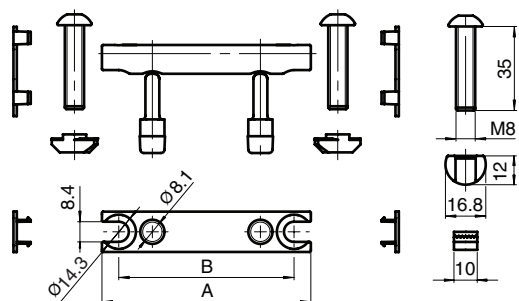
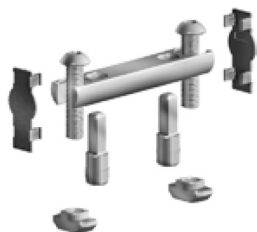
Model	Slot 8
Description	To connect two aluminum profiles at right angles; a 8.2 mm through-hole must be drilled through the side of one profile
Material	Bolts and screws: Zinc plated steel
Pack Quantity	10 pieces

Bolt Connector	A (mm)	B (mm)	Weight (g)	Part Number (Pack Qty = 10)
	28.0	20.0	21.5	099C301
	28.0	18.0	27.0	099C303



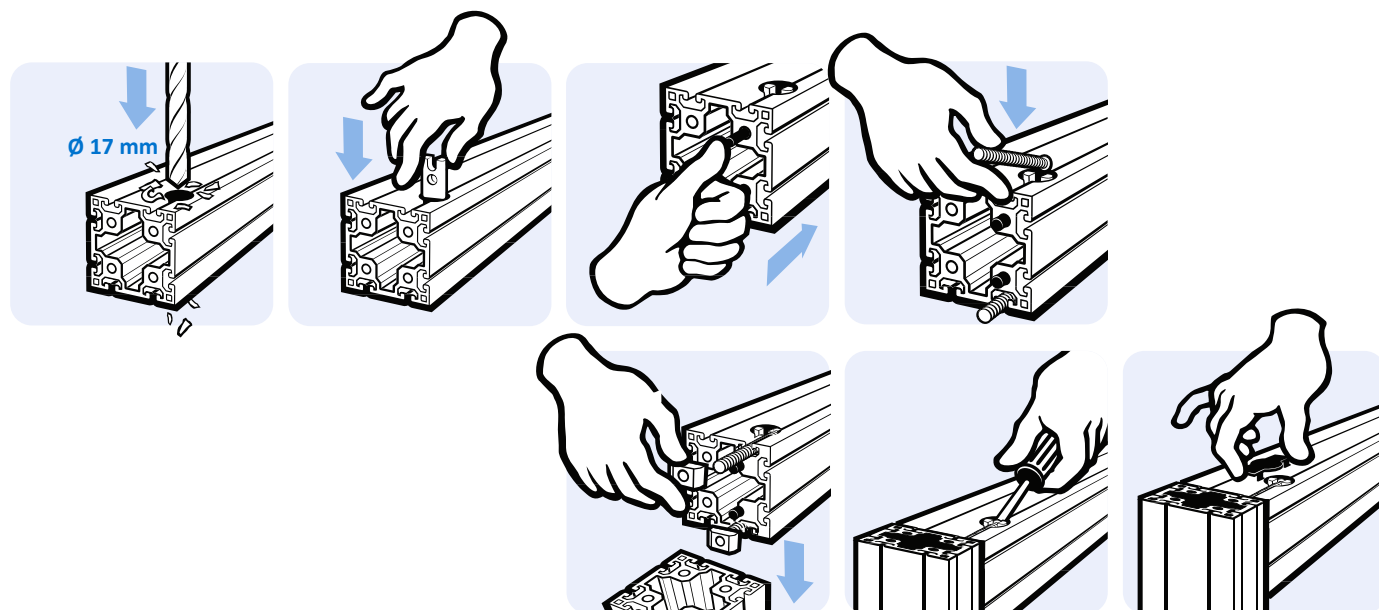
Bolt Connector

2



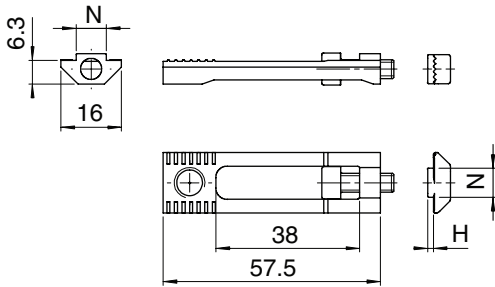
Model	Slot 10
Description	To connect two aluminum profiles at right angles; a 17 mm through-hole must be drilled through the side of one profile
Material	Base element: Zinc plated steel Screws: Zinc plated steel Fixing bolts: Plastic PA, glass fiber reinforced Screw cover: Plastic PA, glass fiber reinforced
Pack Quantity	10 pieces

Bolt Connector	A (mm)	B (mm)	Weight (g)	Part Number (Pack Qty = 10)
D17 x 40	37.0	23.0	74.0	099C401
D17 x 45	42.0	28.0	78.0	099C451
D17 x 50	47.0	33.0	81.0	099C501
D17 x 60	57.0	43.0	83.0	099C601
D17 x 80	77.0	63.0	121.0	099C801
D17 x 90	87.0	73.0	133.5	099C901
D17 x100	97.0	83.0	135.0	099C1001



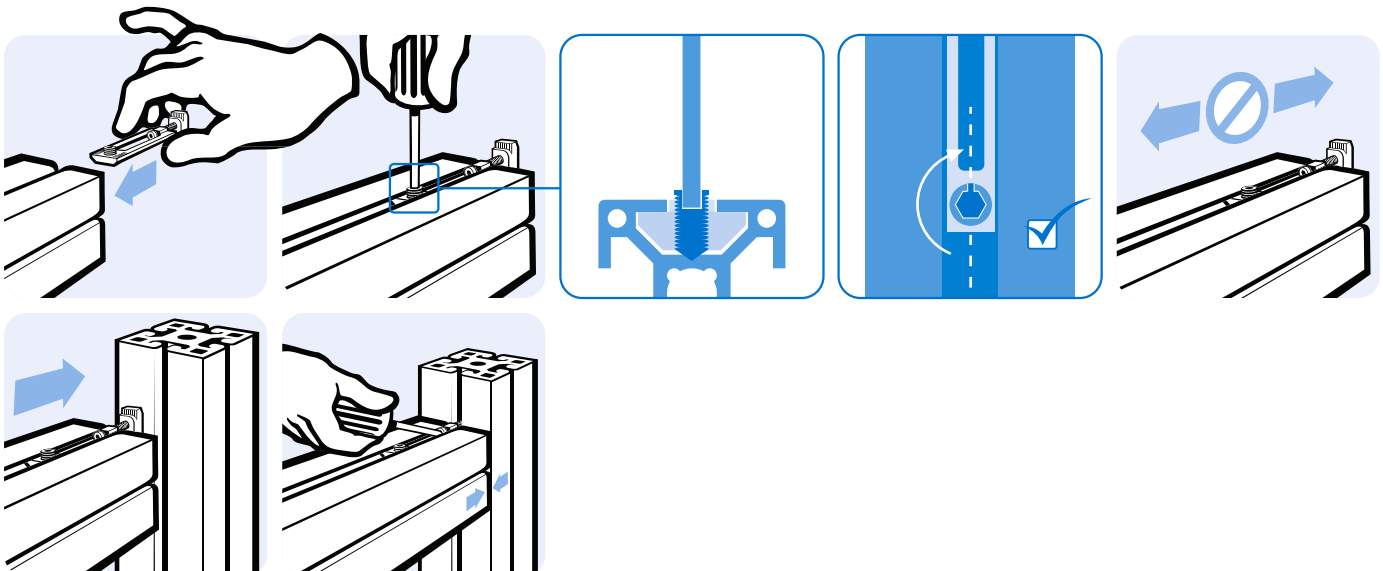
Slot Connector Profile 30

2



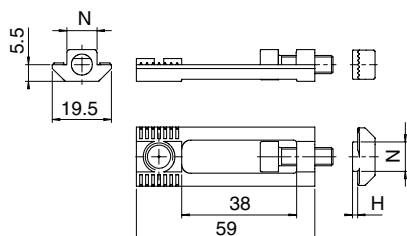
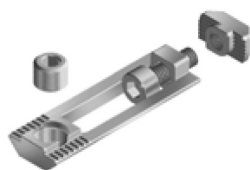
Model	Steel, slot 8
Description	Connects two aluminum profiles fast and secure; no machining required
Material	Zinc plated steel
Set	1 slot connector, 1 screw DIN 912 - M5 × 18, 1 T-nut
Pack Quantity	10 pieces

Slot Connector Profile 30	H (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Set	1.5	8	31.7	099D0830M0515



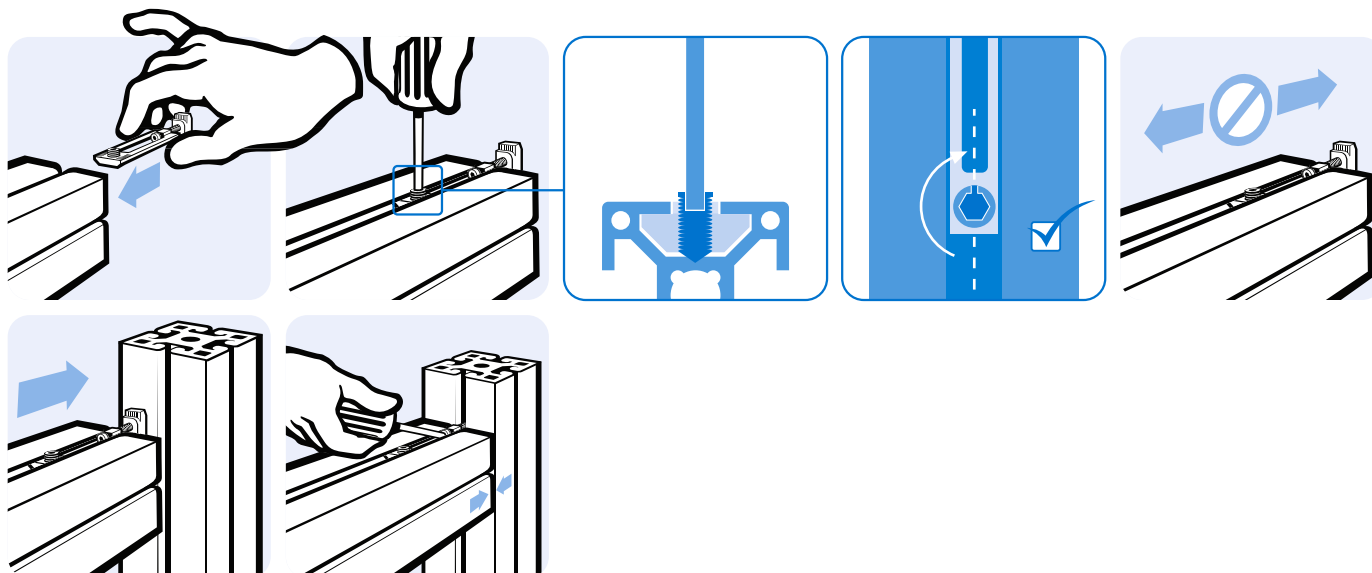
Slot Connector Profile 45

2



Model	Steel, slot 10
Description	Connects two aluminum profiles fast and secure; no machining required
Material	Zinc plated steel
Set	1 slot connector, 1 screw DIN 912 - M6 × 18, 1 T-nut
Pack Quantity	10 pieces

Slot Connector Profile 45	H (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Set	3.0	10	38.1	099D1045M0630

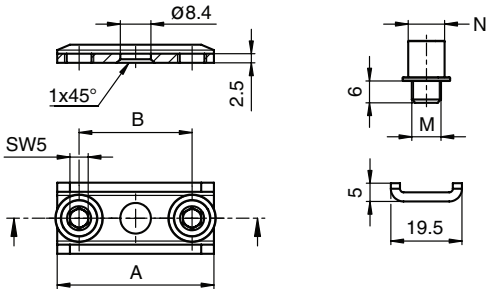


Screw-on Connector Set



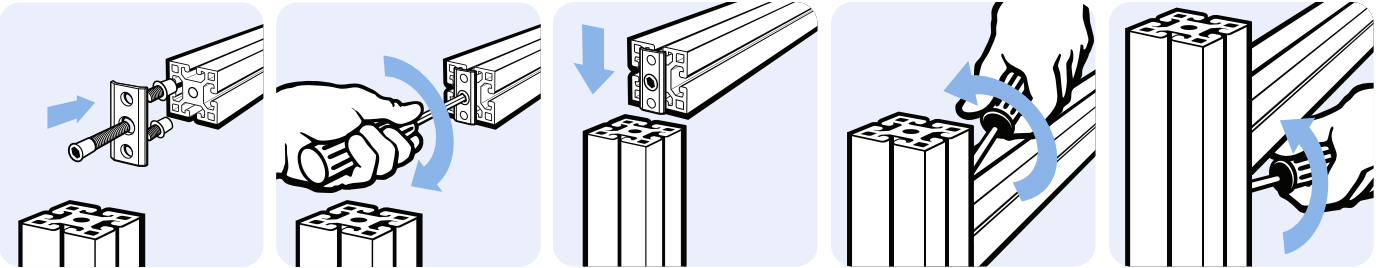
2

10



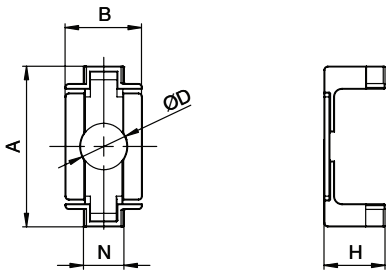
Model	Steel
Description	To connect two aluminum profiles at right angles. Prevents rotation.
Material	Screw-on connector: Steel Screw: Steel Cutting bush: Steel
Set 3	1 screw-on connector, pre-assembled with two pressure screws, (*Profile light) 1 self-cutting central screw S8 (compatible with M8) 1 cutting brush for core hole Ø10.2 mm with internal thread M8
Pack Quantity	10 pieces

Screw-on Connector Set	A (mm)	B (mm)	M	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Set 3	43.0	31.0	M8	10	45.0	099AV1045S01



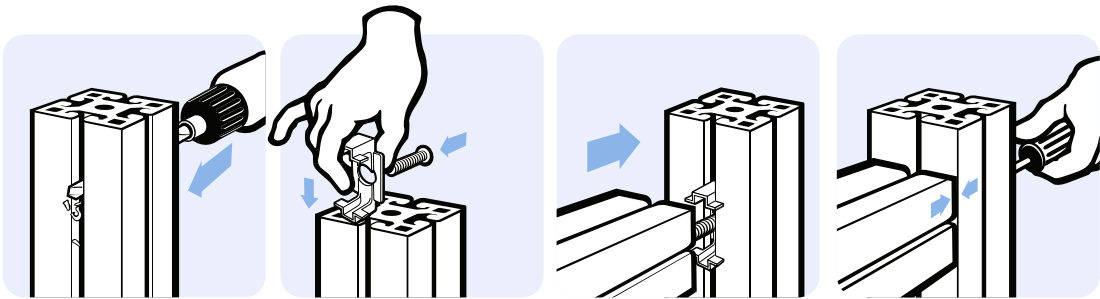
Anti "Rotation" Screw Connector

2

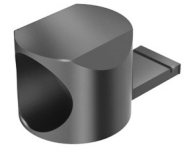


Model	Slot 10
Description	To connect two aluminum profiles at right angles. Prevent rotation.
Material	Zinc plated steel
Pack Quantity	100 pieces

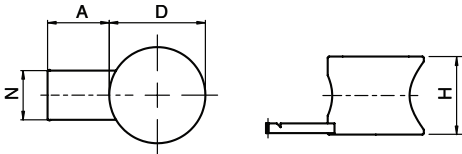
Screw Connector	A x B (mm)	D (mm)	H (mm)	T-slot (N)	Screw	Weight (g)	Part Number (Pack Qty = 100)
	41.6 x 20.0	12.0	15.8	10	M12 x 40	16.0	092092
With self forming screw	41.6 x 20.0	12.0	15.8	10	M12 x 40	47.0	099F1045S13
With Torx screw	41.6 x 20.0	12.0	15.8	10	M12 x 30	42.0	099F1045S11



Universal Connector

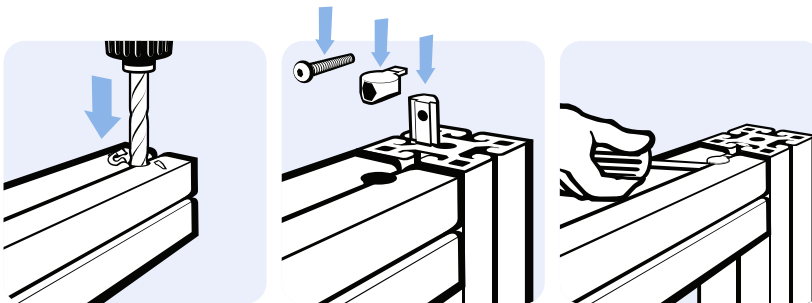


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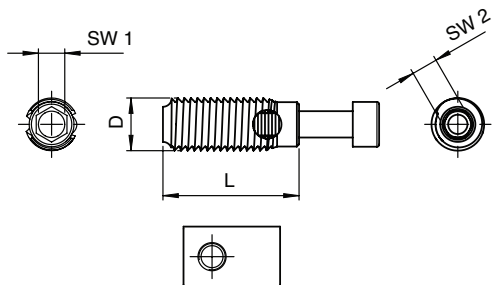
Model	Zinc die-cast
Description	To connect two aluminum profiles
Material	Universal connector: Zinc die-cast Assembly set: Steel
Pack Quantity	100 pieces
Assembly Set	1 screw DIN 912 -M8 × 30, 1 T-slot nut, slot 10, with spring leaf
Pack Quantity Set	10 pieces

Universal Connector	A (mm)	D (mm)	H (mm)	T-slot (N)	Fastener Required	Weight (g)	Part Number (Pack Qty = 100)
With assembly set	12.7	19.7	16.0	10	M8	14.0	099A1045S03



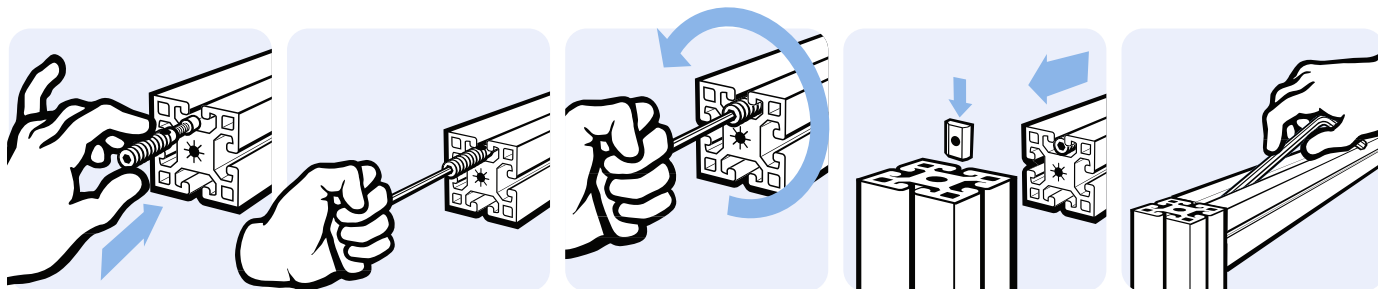
Automatic Connector

2



Model	Steel
Description	Connects two aluminum profiles fast and secure; no machining required; self-cutting thread
Material	Steel
Pack Quantity	100 pieces

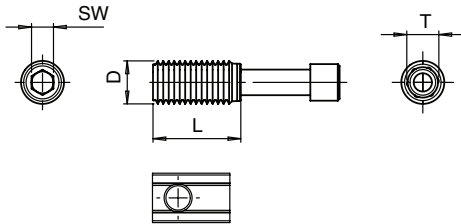
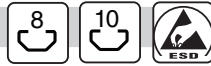
Automatic Connector	D (mm)	L (mm)	SW1	SW2	T-slot (N)	Profile Width	Screw	Weight (g)	Part Number (Pack Qty = 100)
Cutting sleeve	10.7	24.0		5	8	30		7.5	099GS084
	12.0	35.0		6	10	40, 45		15.5	099GS102
	13.0	35.0		6	10	45		17.0	099GS103
With assembly set, incl. screw and T-nut (B)	10.7	24.0	4	5	8	30	M5 x 30	16.5	099G084
	12.0	35.0	5	6	10	40, 45	M6 x 45	33.5	099G102
	13.0	35.0	5	6	10	45	M6 x 45	35.0	099G103



T-matic Connector

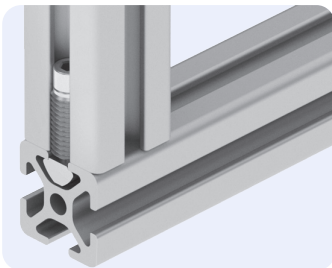


2



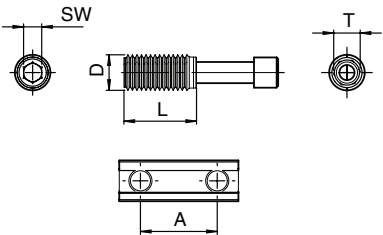
Model	Steel
Description	Connects two aluminum profiles fast and secure; no machining required; self-forming thread, without chipping
Material	Zinc plated steel
Pack Quantity	100 pieces

T-matic Connector	D (mm)	L (mm)	SW	T	ESD	T-slot (N)	Profile Width	Screw	Weight (g)	Part Number (Pack Qty = 100)
Without T-slot nut	11.5	24.0	5	T45		8	30	M6 x 34	15.5	099H083
	12.0	24.0	6			10	40, 45	M8 x 37	21.0	099H102
	13.0	24.0	6			10	45	M8 x 37	26.0	099H101
With T-slot nut	11.5	24.0	5			8	30	M6 x 34	15.0	099H087
	12.0	24.0	6			10	40, 45	M8 x 37	32.0	099H104
	13.0	24.0	6			10	45	M8 x 37	37.0	099H103
	11.5	24.0	5			8	30	M6 x 34	15.0	099H087ESD
	12.0	24.0	6			10	40, 45	M8 x 37	32.0	099H104ESD
	13.0	24.0	6			10	45	M8 x 37	37.0	099H103ESD



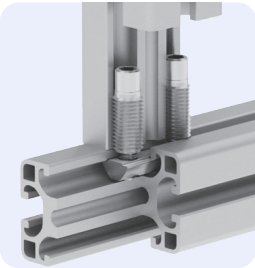
T-matic Double Connector

2



Model	Steel
Description	Connects two aluminum profiles fast and secure; no machining required; self-forming thread, without chipping
Material	Zinc plated steel
Pack Quantity	100 pieces

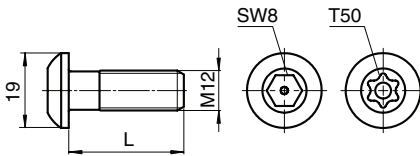
T-matic Double Connector	A (mm)	D (mm)	L (mm)	SW	T	T-slot (N)	Profile Width	Screw	Weight (g)	Part Number (Pack Qty = 100)
	20.0	11.5	24.0	5	T45	8	30	M6 x 34	44.0	099H087D30
	50.0	11.5	24.0	5	T45	8	60	M6 x 34	60.4	099H087D60
	20.0	11.5	24.0	5	T45	8	30	M6 x 34	44.0	099H087D30ESD
	50.0	11.5	24.0	5	T45	8	60	M6 x 34	60.4	099H087D60ESD



Connection Screws (Socket and Torx Head)

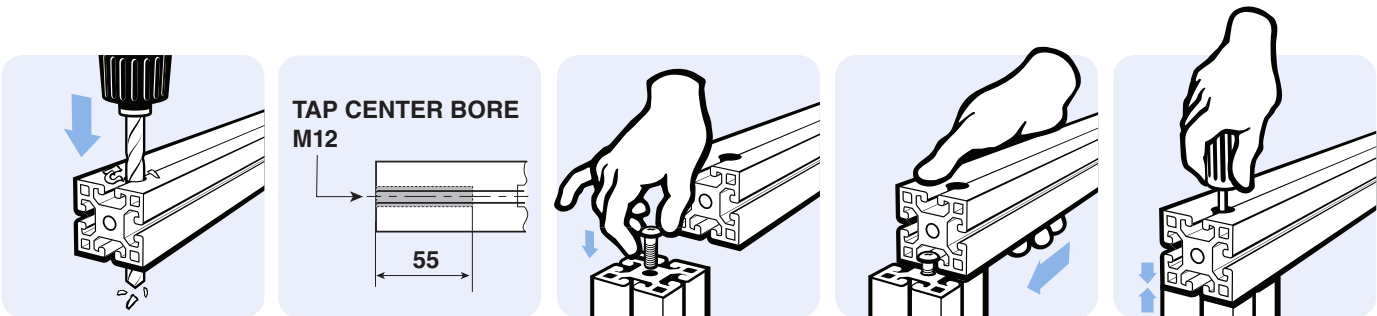


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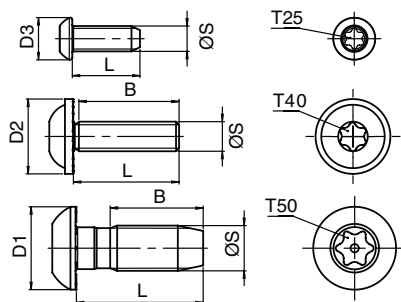
Model	Steel
Description	To connect two aluminum profiles requires drilling and M12 threading
Material	Zinc-plated steel
Pack Quantity	100 pieces

Connecting Screw	Size M x L (mm)	Assembly	T-slot (N)	Weight (g)	Part Number (Pack Qty = 100)
Zinc-plated steel	M12 x 30	SW8 Hexagon socket SW8	10	28.4	093M1230
	M12 x 30	Torx T50	10	28.2	093M1230T



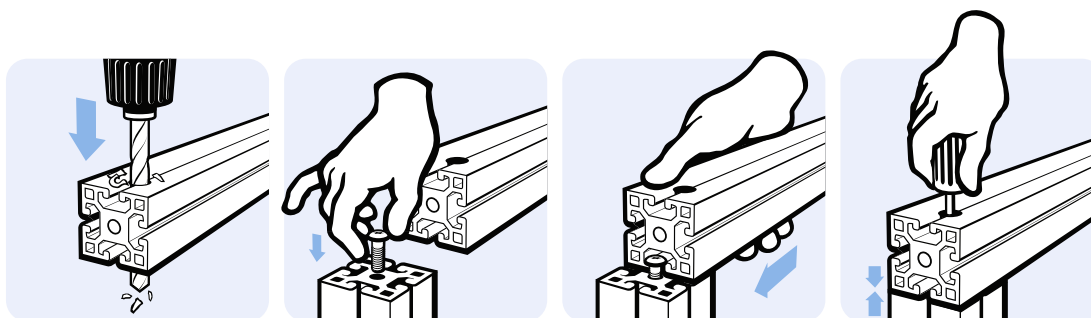
Connection Screws, Self Forming (Torx Head)

2



Model	With Torx
Description	To connect two aluminum profiles; no thread cutter is necessary to fix the screw; because of the special form of the head of the screw and the self-forming thread, a conductive connection of two aluminum profiles is achieved
Material	Zinc-plated steel
Pack Quantity	100 pieces

Self Forming Screw	B (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Extras	Size S x L (mm)	Assembly	T-slot (N)	Weight (g)	Part Number (Pack Qty = 100)
Zinc-plated steel	14.0			10.0		S6 x 16	Torx T25	6	4.0	093S0616T
	23.0		16.0			S8 x 25	Torx T40	8	12.0	093S0825T
	22.0	19.0				S12 x 30	Torx T50	10	25.2	093S1230T

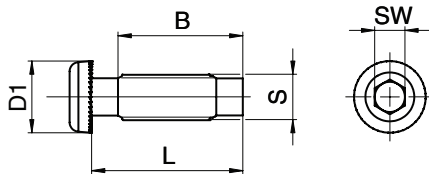


Connection Screws, Self-Threading (Socket Head)



S12x40

SELF-TAPPING SCREW



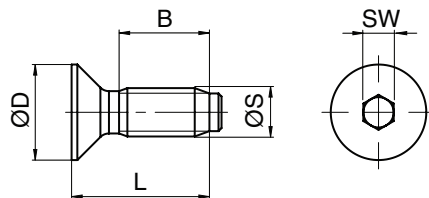
Model	With hexagon socket
Description	To connect two aluminum profiles; no thread cutting is necessary to use the screw; because of the special form of the head of the screw and the self-forming thread, a conductive connection of two aluminum profiles is achieved
Material	Zinc plated steel
Pack Quantity	100 pieces

Self-tapping Screw	B (mm)	D1 (mm)	SW	Extra	Size S x L	Weight (g)	Part Number (Pack Qty = 100)
	26.0	19.0	8		S12 x 40	31.0	093SF1240



S8x25

SELF-FORMING COUNTERSUNK SCREW

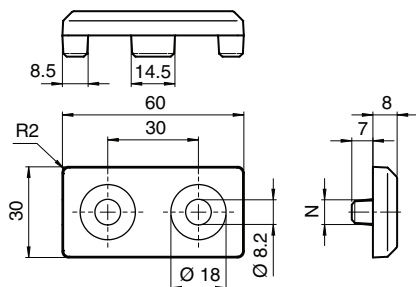


Model	With hexagon socket
Description	For all mounting applications to the front of the aluminum profile; detachable and reusable; designed for optimized fastening strength
Material	Steel
Pack Quantity	100 pieces

Self-forming Countersunk Screw	B (mm)	D (mm)	SW	Size S x L (mm)	Weight (g)	Part Number (Pack Qty = 100)
Compatible with metric threads	20.0	15.8	5	S8 x 25	12.0	093S0825C

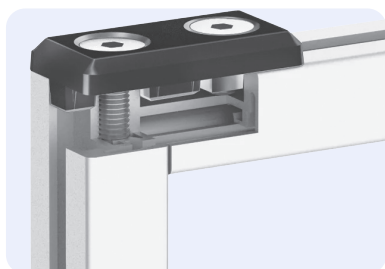
Frame Corner Connector Plate 22.5x30

2

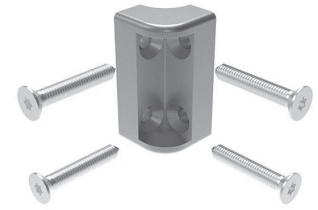


Model	Plastic PA, frame profile 22.5 × 30
Description	To connect two frame profiles 22.5 × 30 at right angles; electrostatically discharging
Material	Corner connector plate: Plastic PA, carbon fiber reinforced Assembly set: Steel
Color	Corner connector plate: Black
Assembly Set	1 self forming countersunk screw S8 × 25, 1 countersunk screw DIN 7991 - M8 × 16, 1 square nut DIN 562 - M8
Pack Quantity	10 pieces
Tip	*Compatible self forming countersunk screw S8 × 25 Part # 09350825C

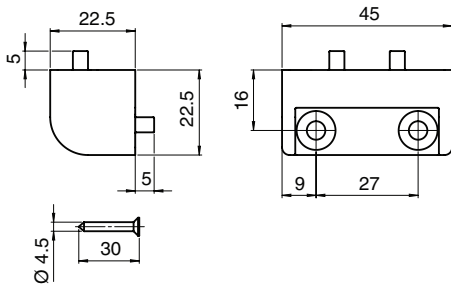
Frame Corner Connector Plate	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
With assembly set	8	37.0	093VB3060N08S01



Frame Corner Connector 22.5x45 (Set)

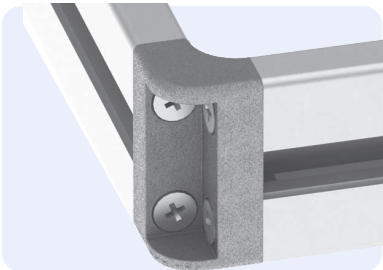


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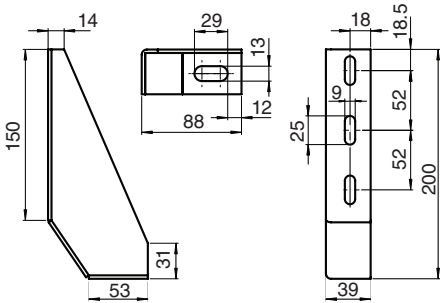
Model	Aluminum die-cast
Description	To connect two aluminum frame profiles 22.5 × 45 at right angles
Material	Frame corner connector: Aluminum die-cast Screws: Steel
Set	1 frame corner connector 22.5 × 45 - slot 10, 4 screws DIN 7982 - 4.8 × 32
Pack Quantity	10 pieces

Frame Corner Connector 22.5x45 (Set)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
	10	74.0	093WF22451N10S01



Floor Bracket 200

2



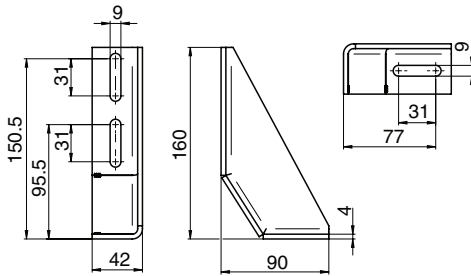
Model	Steel, profile 40 and up
Description	To securely fix aluminum profiles to the floor
Material	Steel
Pack Quantity	10 pieces

Floor Bracket 200	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Zinc plated	10	456.0	093B2001V
Powder coated	10	456.0	093B2001S

Floor Bracket 160



2



Model	Steel, profile 45 and up
Description	To securely fix aluminum profiles to the floor
Material	Steel
Pack Quantity	10 pieces

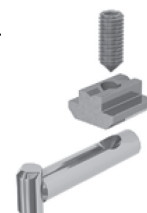
Floor Bracket 160	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Zinc plated	10	423.0	093B2002V
Powder coated	10	423.0	093B2002S



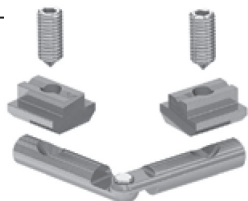
Adjustable Angles Brackets
Page 109



Pivot Angle 130 (Swivel Fastener)
Page 112



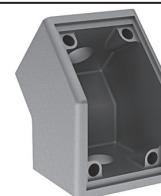
Miter Connectors 30°-90°
(Quick Connector Bendable)
Page 113



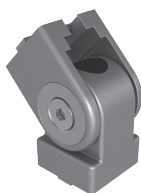
Miter Connectors 30°-180°
Page 114



45° Miter Connector (Miter Bracket)
Page 115



Angle Connectors 45° (45° Connectors)
Page 116



Pivot Joints
Page 118

lean frame Application Ideas

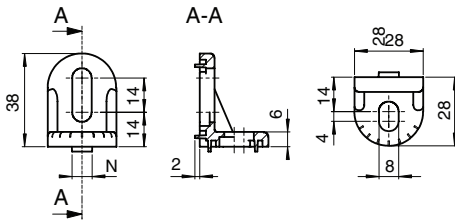


Freestanding White Board

Adjustable Angle 30 (Bracket R)

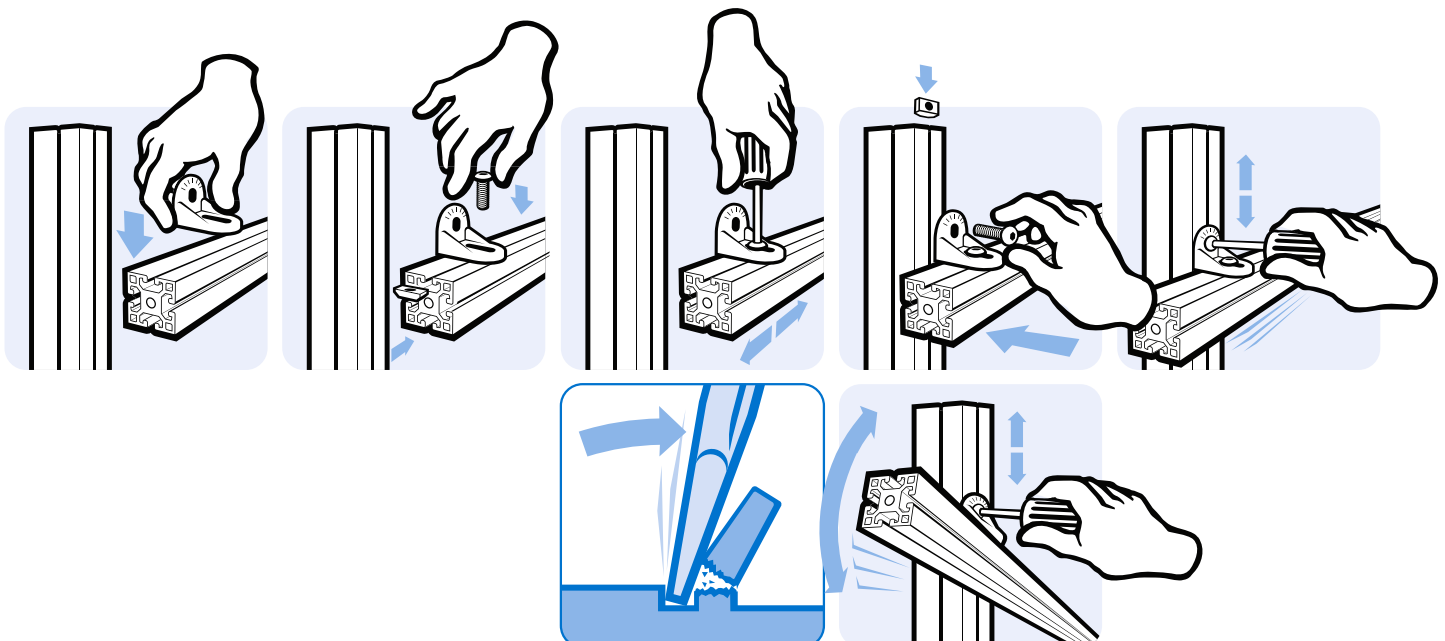


3



Model	Aluminum die-cast
Description	To connect aluminum profiles at various angles from 0° to 180°
Material	Angle: Aluminum die-cast Centering piece: Plastic PA, glass fiber reinforced Assembly set: Steel
Color	Centering piece: Black
Assembly Set 2	2 screws DIN 7984 - M8 × 16, 2 T-nuts - slot 10 - M8, 4 centering pieces - slot 8 to slot 10
Pack Quantity	10 pieces

Adjustable Angle 30	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	8	16.8	093WG302N08
	10	17.2	093WG302N10
	10	20.0	093WG302N10S03
Centering piece	Slot 8 to slot 10	1.0	093W02
Gusset incl. assembly set 1	8 / 10	42.0	093WG302N08S05
Gusset incl. assembly set 2	10	47.4	093WG302N10S01

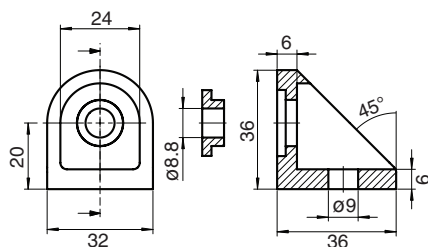


Adjustable Angle 40 (Bracket R)

3

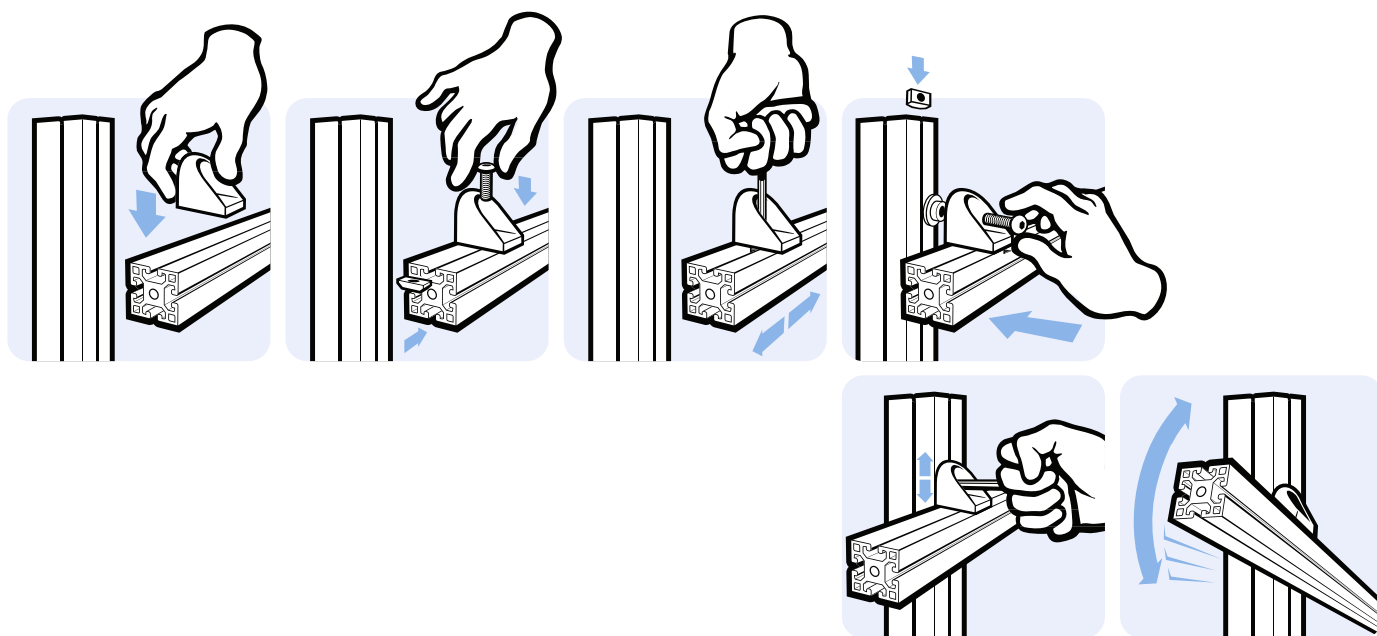


10

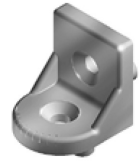


Model	Zinc die-cast
Description	To connect aluminum profiles at various angles; can be turned freely when mounted
Material	Angle: Zinc die-cast Bushing: Steel, zinc plated
Fastening	Using M8 screws
Pack Quantity	10 pieces

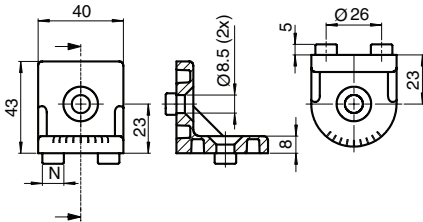
Adjustable Angle 40	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	10	91.0	093WG401R



Turning Angle 45 (Bracket R)

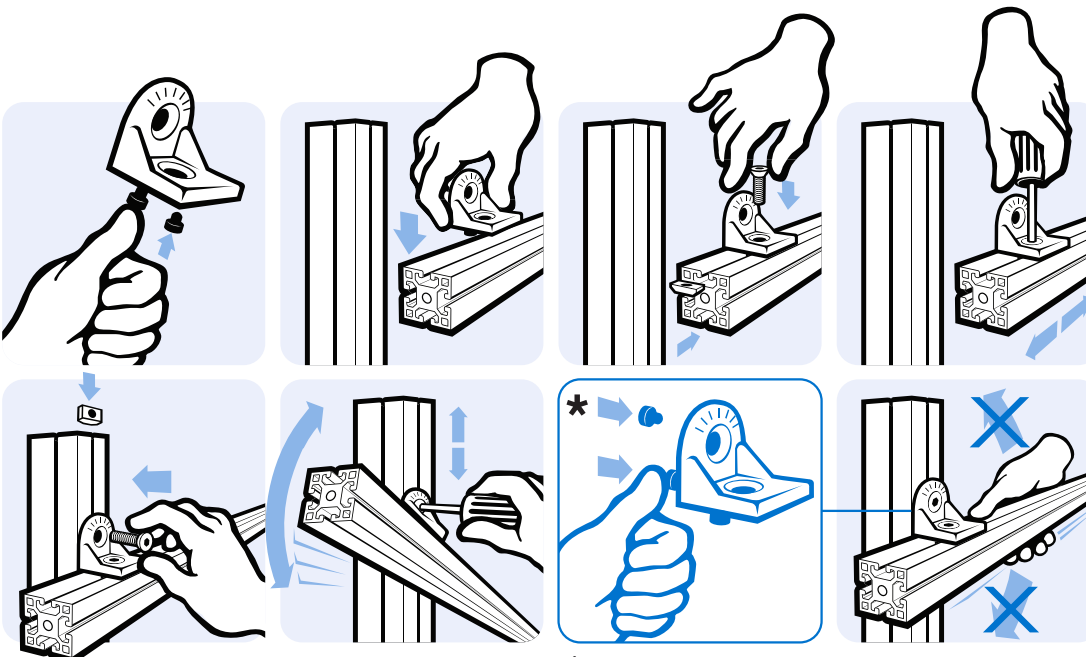


3



Model	Aluminum die-cast
Description	To connect aluminum profiles at various angles from 0° to 180°
Material	Turning Angle: Aluminum die-cast Centering bolts: Plastic PA, glass fiber reinforced Assembly set: Steel
Color	Centering bolts: Black
Assembly Set	5 screws DIN 7991 - M8 x 20, 2 T-nuts - slot 10 - M8
Pack Quantity	10 pieces

Turning Angle 45	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Gusset only	No centering tab	44.2	093WG402
	8 / 10	45.0	*093WG402N
Gusset incl. assembly set	8 / 10	76.0	*093WG402NS02

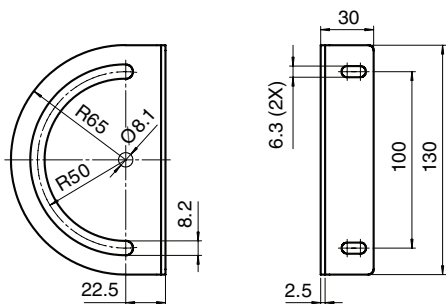


*Use of Centering bolts and tabs at this location, will not provide an adjustable angle.

Pivot Angle 130

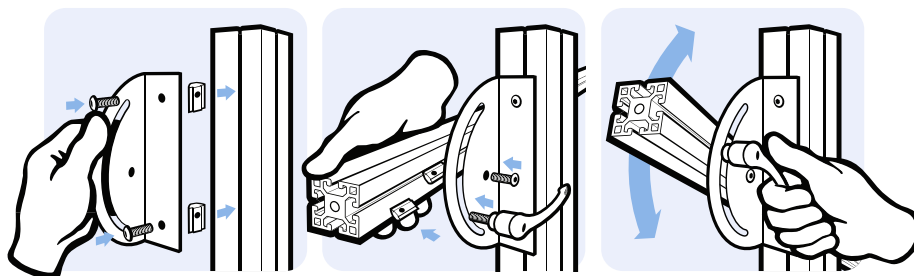


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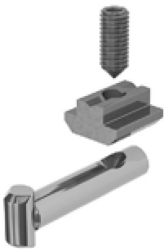


Model	Steel
Description	To connect aluminum profiles at an adjustable angle; can be fixed with a locking lever
Material	Steel
Pack Quantity	10 pieces

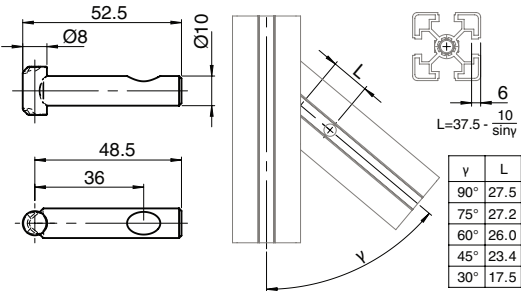
Pivot Angle	For Locking Lever	For Screw	Weight (g)	Part Number (Pack Qty = 10)
	M8	M6	221.0	093WG130V



Miter Connector 30°-90° (Quick Connector Bendable, End-to-Slot)

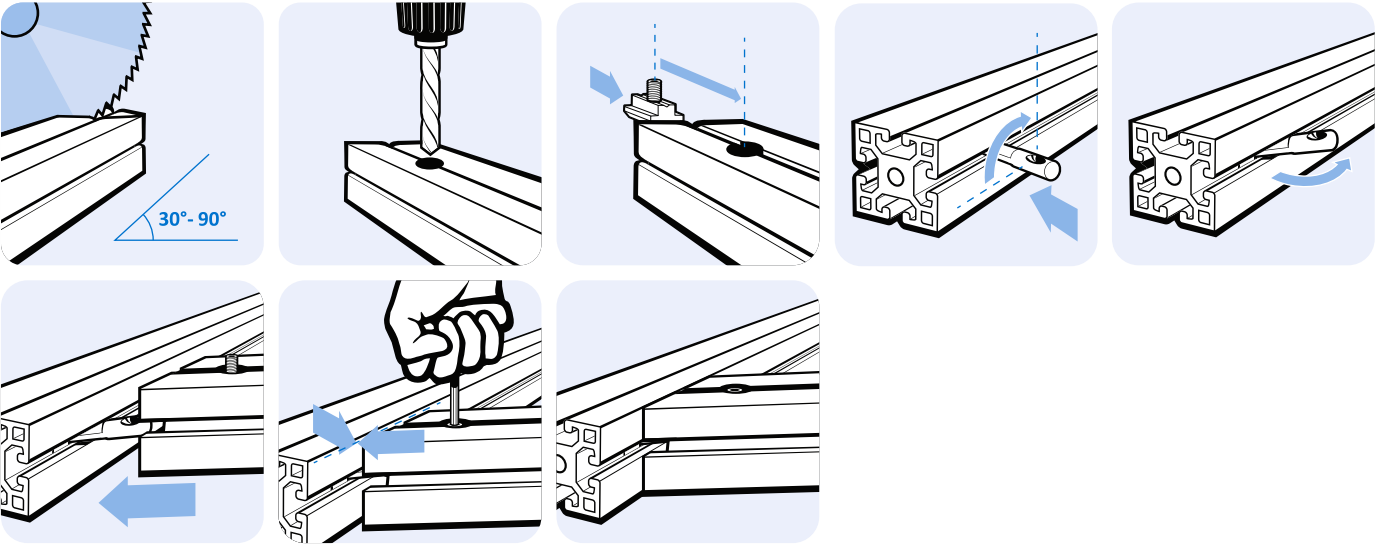


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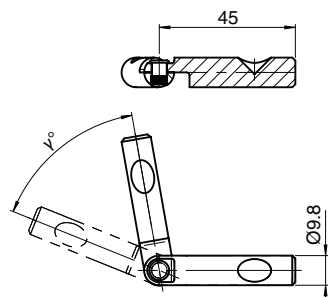
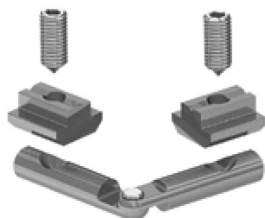
Model	Steel, profile 45, slot 10 deep
Description	End-to-slot connection of an aluminum profile with a miter cut (cut y = 30°-90°) to another aluminum profile; before the application a hole with Ø 8.2 mm lateral must be drilled; with T-slot nut and threaded pin with AF 4
Material	Steel
Pack Quantity	10 pieces

Miter Connector 30°-90°	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
	10	57.0	099BG10081090



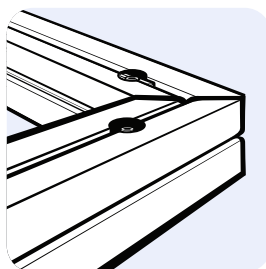
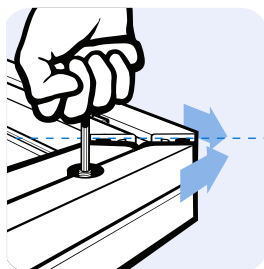
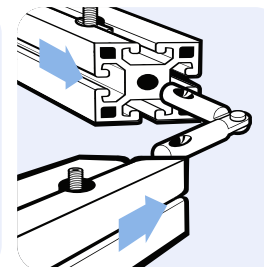
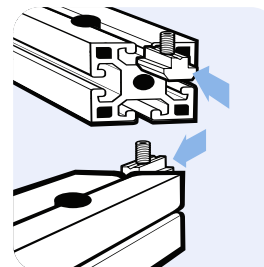
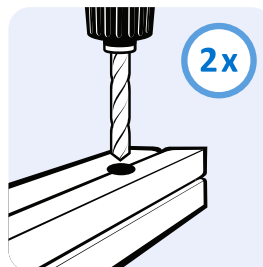
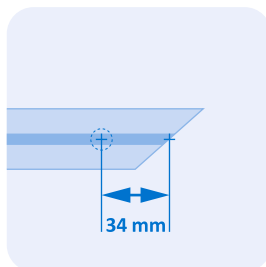
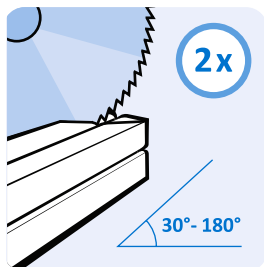
Miter Connector 30°-180° (Quick Connector Bendable, End-To-End)

3



Model	Steel, slot 10
Description	End-to-end connection of two aluminum profiles with a miter cut (cut each $y = 30^\circ$ - 90°); before the application a hole with $\varnothing 8.2$ mm in a distance of 34 mm of the profile end must be drilled; with T-slot nut and threaded pin with AF 4
Material	Steel
Pack Quantity	10 pieces

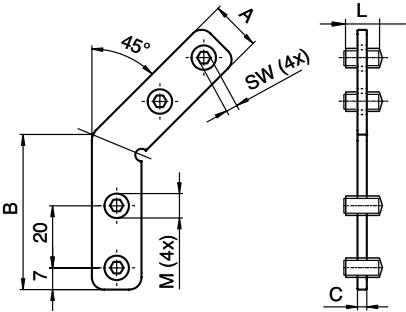
Miter Connector 30°-180°	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
	10	96.0	099BG100810180



45° Miter Connector

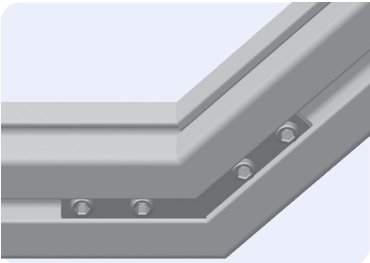


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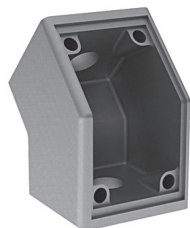


Model	Steel
Description	To connect two aluminum profiles
Material	Steel
Pack Quantity	10 pieces

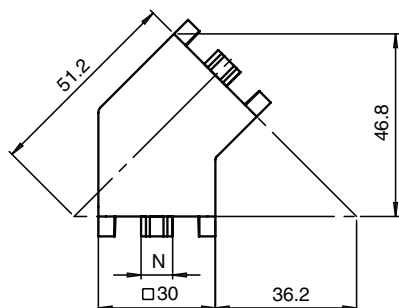
45° Miter Connector	Hexagon Socket Set Screw	A (mm)	B (mm)	C (mm)	L (mm)	SW	Weight (g)	Part Number (Pack Qty = 10)
	M8	16.0	46.0	3.0	8.0	4	40.0	099GV0845
	M10	20.2	60.0	3.0	10.0	5	64.5	099GV1045



Angle Connector 30 (45° Connector)

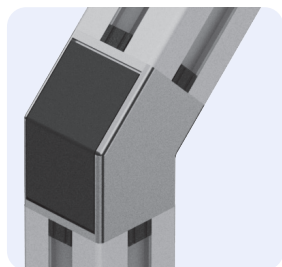


3



Model	Aluminum die-cast
Description	To connect two 30x30 aluminum profiles at 45°
Material	Angle connector: Aluminum die-cast Centering pieces: Plastic PA, glass fiber reinforced Cover caps: Plastic PA, glass fiber reinforced Assembly set: Steel
Pack Quantity	10 pieces

Angle Connector 30, (45° Connector)	Cover Cap	Assembly Set	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Plain	Black	Incl. assembly set	- / 8 / 10	95.0	093WS30145N0810RS01
Aluminum color	Black	Incl. assembly set	- / 8 / 10	95.0	093WS30145N0810S01
	Aluminum color	Incl. assembly set	- / 8 / 10	96.5	093WS30145N0810S04

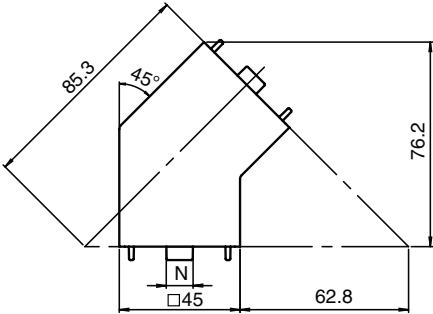


Angle Connector 45 (45° Connector)



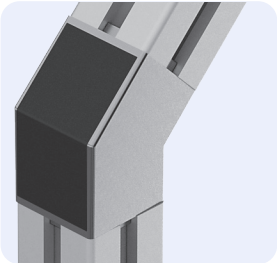
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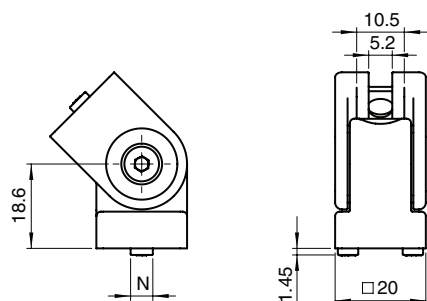
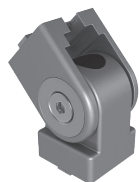
Model	Aluminum die-cast
Description	To connect two 45x45 aluminum profiles at 45°
Material	Angle connector: Aluminum die-cast Cover caps: Plastic PA Assembly set: Steel
Pack Quantity	10 pieces

Angle Connector 45, (45° Connector)	Cover Cap	Assembly Set	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Plain	Black	Incl. assembly set	10	228.0	093WS45145N10RS01
Aluminum color	Black	Incl. assembly set	10	228.0	093WS45145N10S01
	Aluminum color	Incl. assembly set	10	231.0	093WS45145N10S02



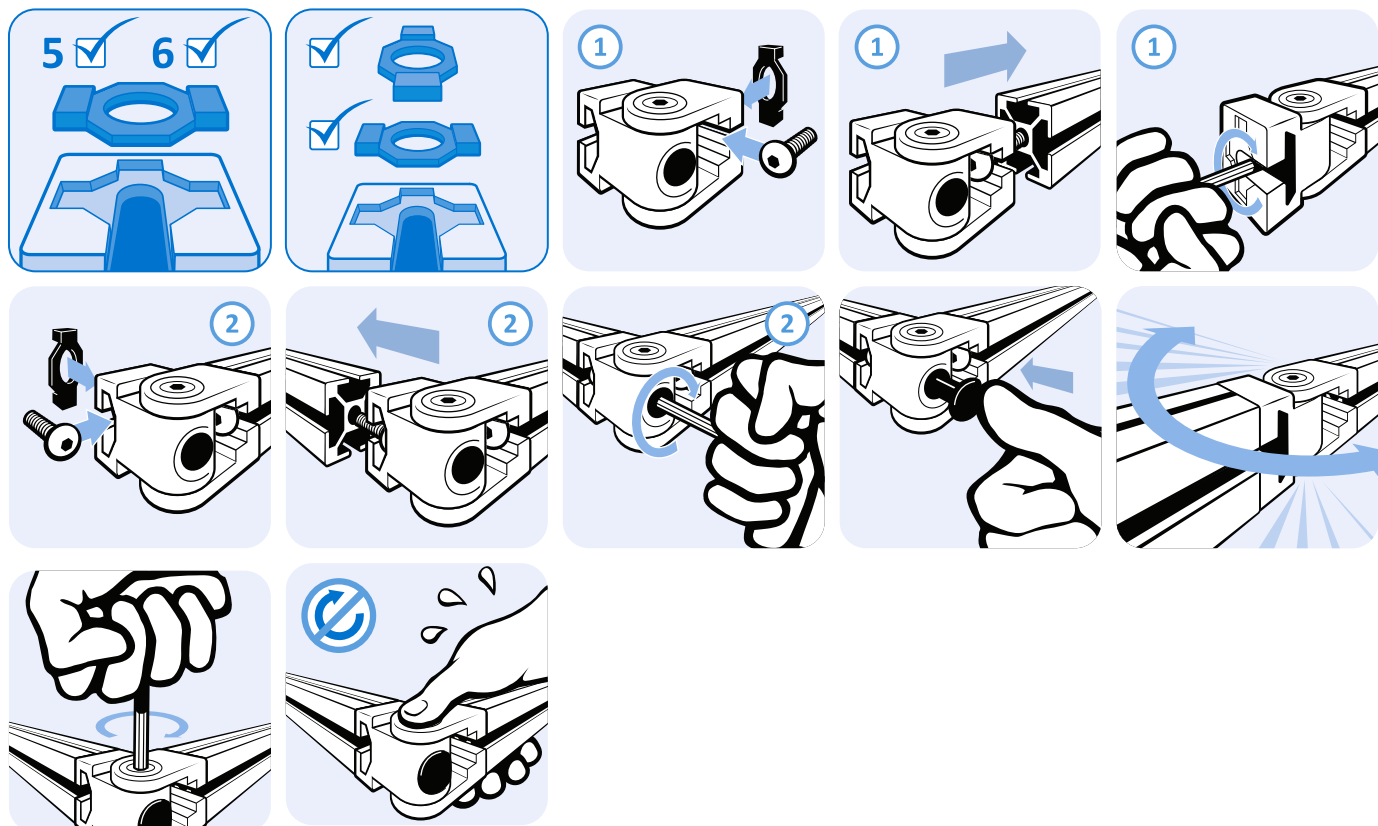
Pivot Joint B 20

3



Model	Bearing block, with adjustable friction, die-cast aluminum
Description	For connection of two profiles or panels, with attachment at any angle, fixed locating pins for slot 5 or 6 optional; by tightening or loosening the screws you can adjust the frictional resistance of the joint continuously, or you can fix it at a defined position; thicker walls for stronger locking
Material	Die-cast aluminum
Surface	Lacquered
Pack Quantity	10 pieces

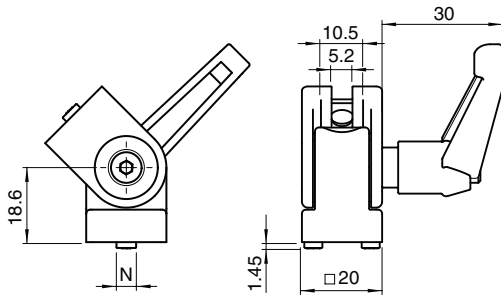
Pivot Joint B 20	T-slot (N)	Opening Angle	Weight (g)	Part Number (Pack Qty = 10)
	6	185°	33.0	093GAB20AN06



Pivot Joint B 20 with Locking Lever

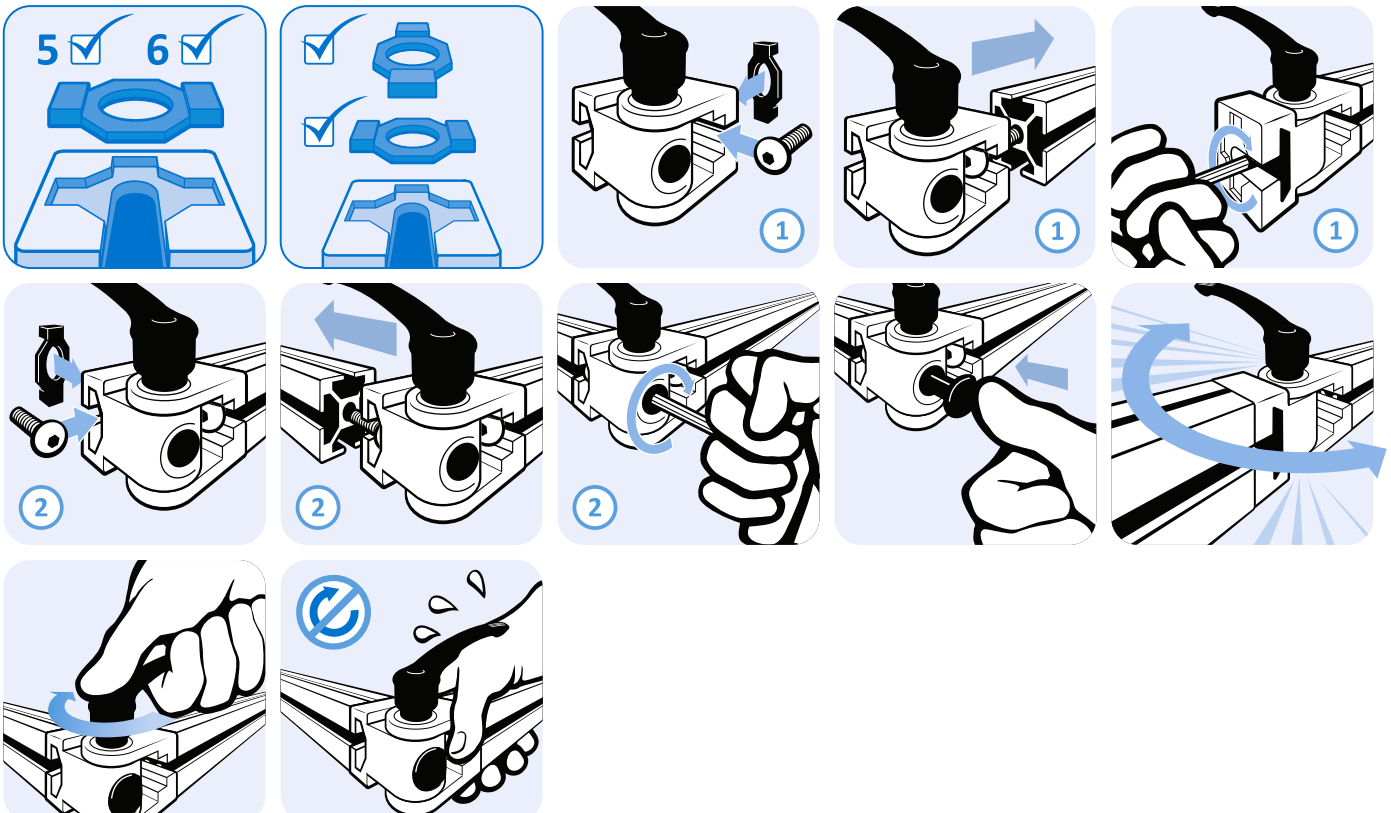


3



Model	Bearing block, with adjustable friction, die-cast aluminum
Description	For connection of two profiles or panels, with attachment at any angle, fixed locating pins for slot 5 or 6 optional; by tightening or loosening the screws and the KIPP-locking lever you can adjust the frictional resistance of the joint continuously, or you can fix it at a defined position; thicker walls for stronger locking
Material	Joint: Die-cast aluminum KIPP-locking lever: Plastics PA, glass fiber reinforced
Surface	Lacquered
Pack Quantity	10 pieces
Tip	Screw of the pivot joint fork must be mounted first in the straight position of the joint through the hole in the bearing block

Pivot Joint B 20 with Locking Lever	T-slot (N)	Opening Angle	Weight (g)	Part Number (Pack Qty = 10)
	6	185°	47.0	093GABF20AN06



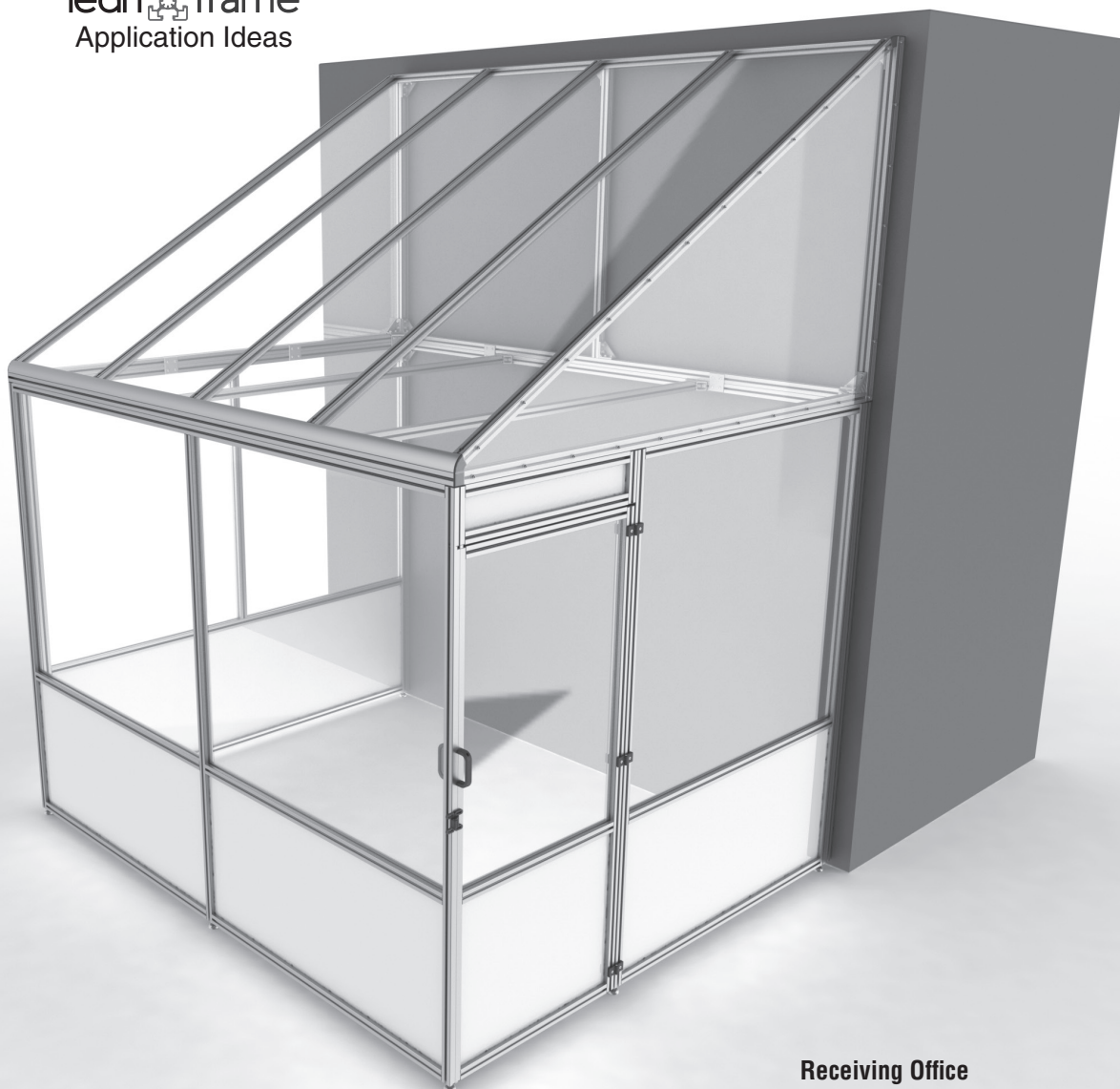


Connecting Strip (Profile Connector)
Page 121



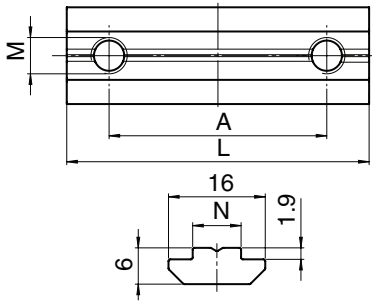
T-matic Butt Connector
Page 124

lean  frame
Application Ideas



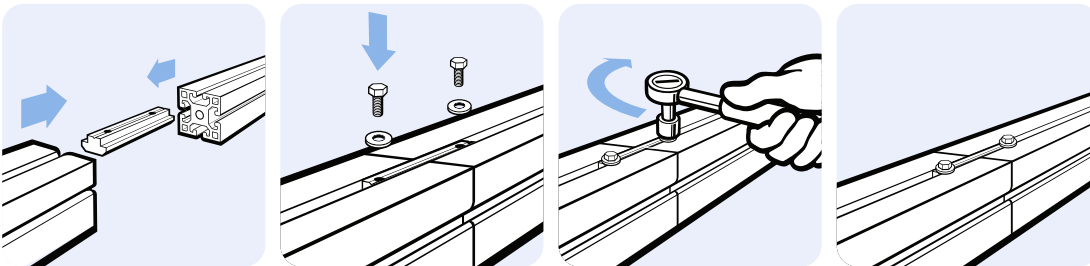
Receiving Office

Connecting Strip 50 (Profile Connector)

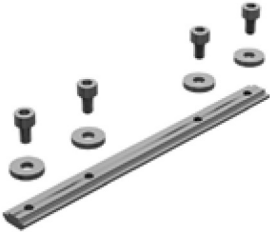


Model	Steel
Description	End-to-end connection of two aluminum profiles without machining
Material	Zinc plated steel
Set 1	1 connecting strip 50, slot 8, 2 screws ISO 7380 Form B - M6 × 8, 2 washers DIN 125
Set 2	2 connecting strip 50, slot 8, 2 hex socket set screws DIN 913 - M6 × 10
Pack Quantity	10 pieces

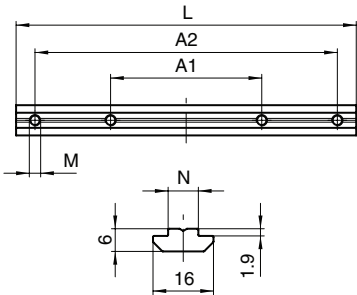
Connecting Strip 50	A (mm)	L (mm)	T-slot (N)	Size	Weight (g)	Part Number (Pack Qty = 10)
Set 1	36.0	50.0	8	M6	35.0	096010S46
Set 2	36.0	50.0	8	M6	29.0	096010S05



Connecting Strip 180 (Profile Connector)

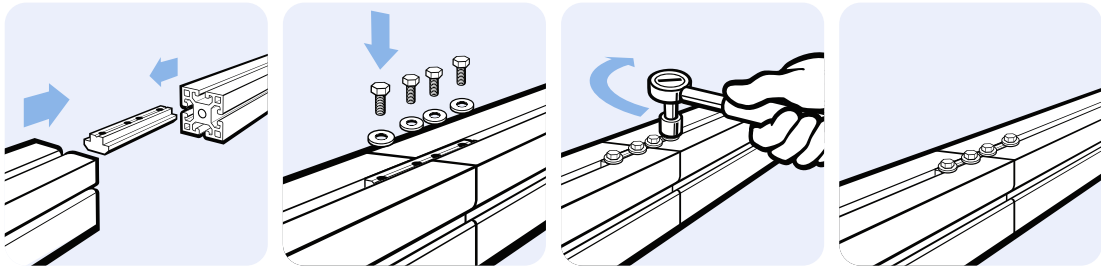


4

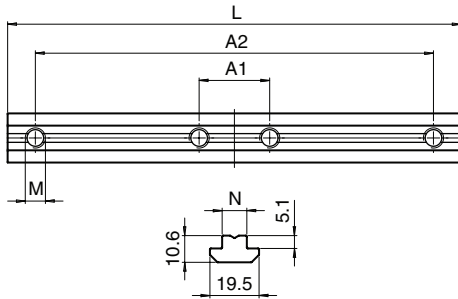
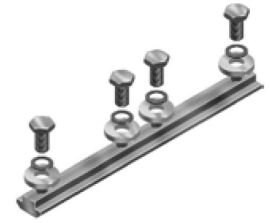


Model	Steel
Description	End-to-end connection of two aluminum profiles without machining
Material	Zinc plated steel
Set	1 connecting strip 180, slot 8, 4 screws DIN 912 - M6 × 12, 4 washers DIN 7349 - 6.4
Pack Quantity	10 pieces

Connecting Strip 180	A1 (mm)	A2 (mm)	L (mm)	T-slot (N)	Size	Weight (g)	Part Number (Pack Qty = 10)
Set	80.0	160.0	180.0	8	M6	134.0	096010S11

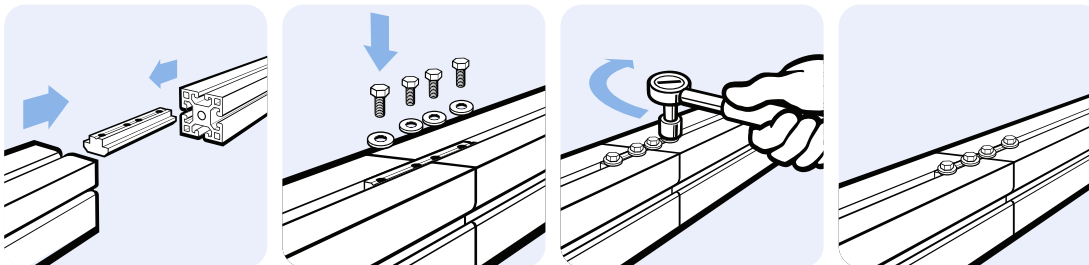


Connecting Strip 180 (Profile Connector)



Model	Steel
Description	End-to-end connection of two aluminum profiles without machining
Material	Zinc plated steel
Set	1 connecting strip 180, slot 10, 4 screws DIN 933 (ISO 4017) - M8 × 16, 4 washers 8-FSt, 4 washers DIN 7349 - 8.4
Pack Quantity	10 pieces

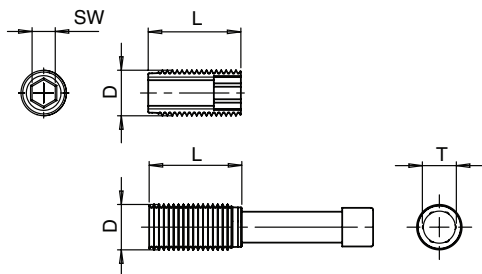
Connecting Strip 180	A1 (mm)	A2 (mm)	L (mm)	T-slot (N)	Size	Weight (g)	Part Number (Pack Qty = 10)
Set	28.0	158.0	180.0	10	M8	264.0	096030S38



T-matic Butt Connector

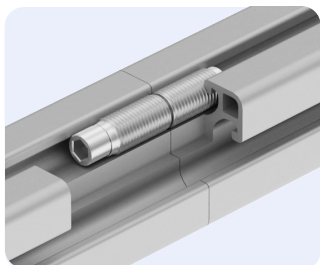


4



Model	Steel
Description	To quickly connect two profile end-to-end without machining; self-forming thread, without chipping
Material	Steel
Pack Quantity	100 pieces

T-matic Butt Connector	D (mm)	L (mm)	SW	T	ESD	T-slot (N)	Profile Width	Screw	Weight (g)	Part Number (Pack Qty = 100)
T-matic screw-in threaded sleeve	11.5	24.0		T45		8	30		7.7	099HS083M6
	12.0	24.0		T50		10	40, 45		8.3	099HS102M8
	13.0	24.0		T50		10	45		12.1	099HS101M8
T-matic butt connector	11.5	24.0	5	T45		8	30	M6 x 50	27.0	099H087M6ESD
	13.0	24.0	6	T50		10	45	M8 x 50	43.8	099H103M8ESD
	12.0	24.0	6	T50		10	40, 45	M8 x 50	35.5	099H104M8ESD





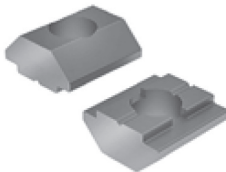
T-nuts (Hammer Nuts)
Page 127



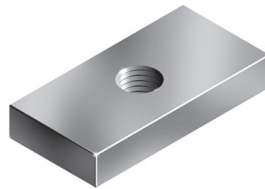
T-bolts (Hammer Head Screw)
Page 131



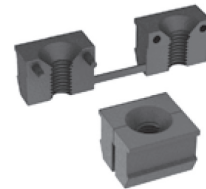
Flange Nut
Page 134



T-slot Nuts (Sliding Blocks)
Page 136

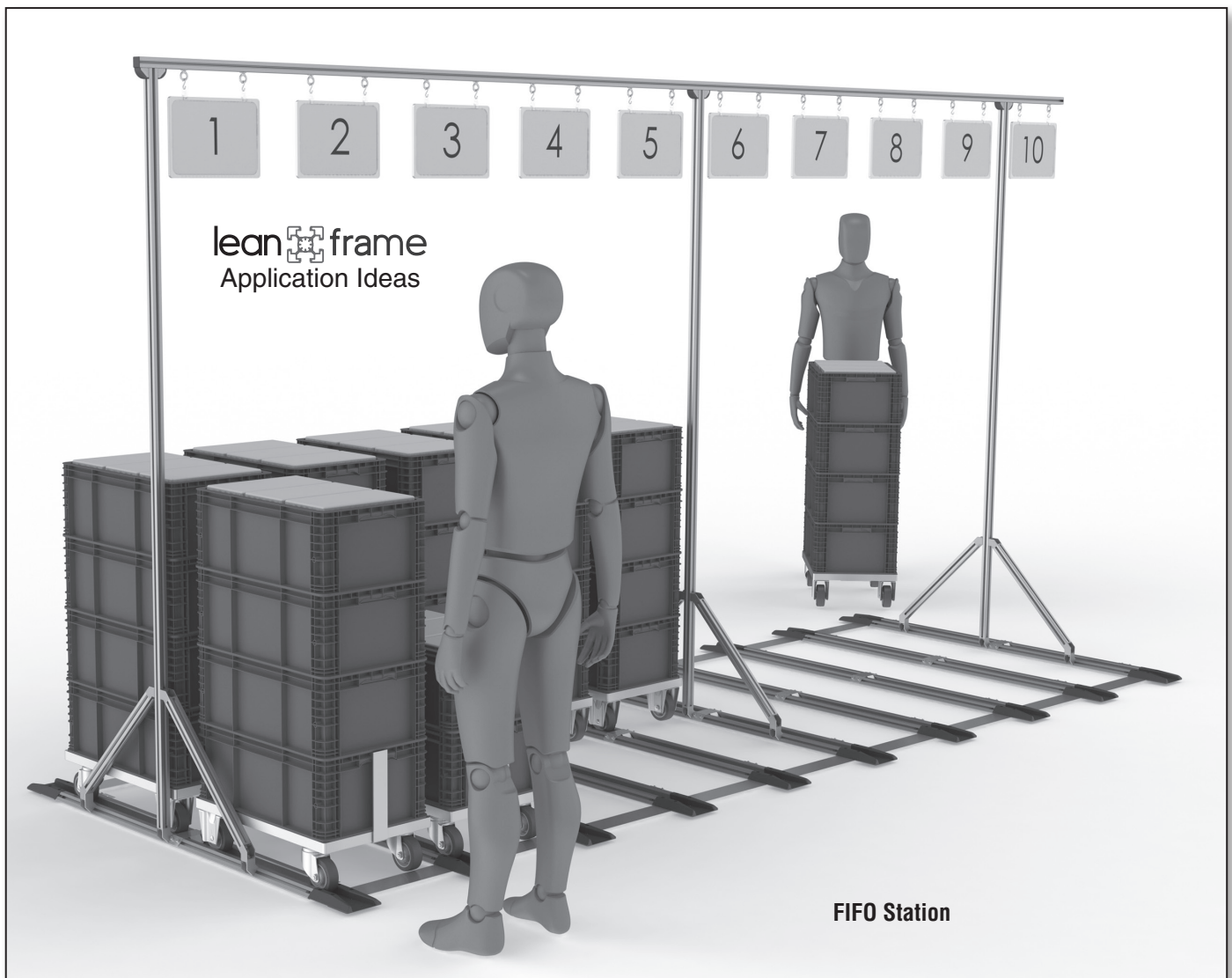


Threaded Plate
Page 147



Expanding Nut (Straddling Nut)
Page 148

5



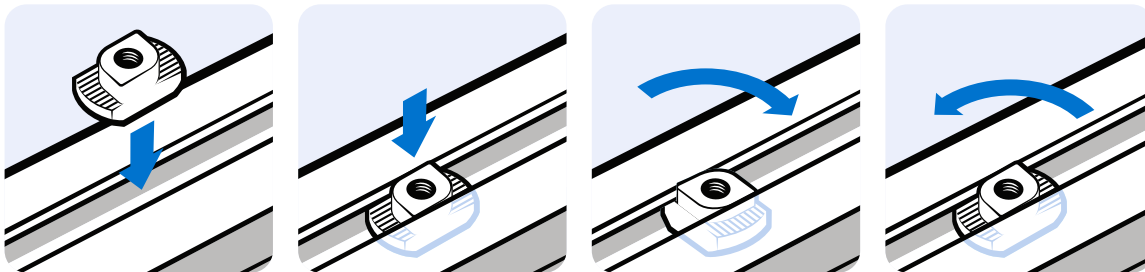
T-nuts and T-bolts (Hammer Nuts and Hammer Head Screws)

To make threaded connections in profile slots, you can use T-nuts (Hammer Nuts) and T-bolts (Hammer Head Screws).

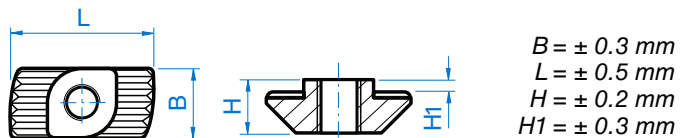
When fixing the T-nut in place, it will be secured in the slot when it turns into its final position.

When you want to disassemble the connection you do not need to unfasten the whole nut, as it will immediately turn along the profile slot and can be taken out easily.

5

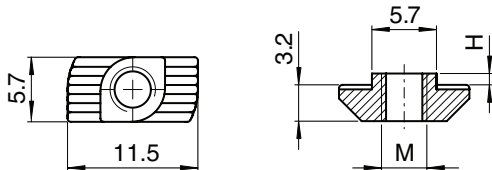


Dimensional Tolerances



All information is just for reference and does not pose a legally binding agreement about the product properties.

T-nut Slot 6

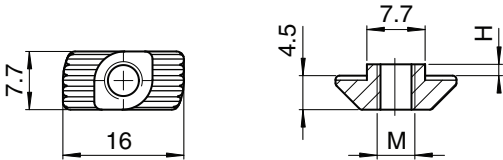


Model	Slot 6, steel or stainless steel
Description	To fasten components to profiles, breaks the anodized coat of the profile - thus ensuring a safe,  electrostatically discharging connection
Material	Zinc plated steel or stainless steel SS304
Pack Quantity	100 pieces

5

T-nut	H (mm)	Size	Weight (g)	Part Number (Pack Qty = 100)
Steel	1.0	M4	1.0	096H06410
Stainless steel	1.0	M4	1.2	096H06410E

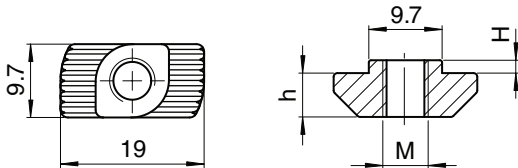
T-nut Slot 8



Model	Slot 8, steel or stainless steel
Description	To fasten components to profiles, breaks the anodized coat of the profile - thus ensuring a safe,  electrostatically discharging connection
Material	Zinc plated steel or stainless steel SS316
Pack Quantity	100 pieces

T-nut	H (mm)	Size	Weight (g)	Part Number (Pack Qty = 100)
Steel	1.5	M4	3.8	096H08415
	1.5	M5	3.1	096H08515
	1.5	M6	3.0	096H08615
	1.5	10-32 UNF	3.0	096H0810-3215
Stainless steel	1.5	M6	3.1	096H08615E

T-nut Slot 10



Model	Slot 10, steel or stainless steel
Description	To fasten components to profiles, breaks the anodized coat of the profile - thus ensuring a safe,  electrostatically discharging connection
Material	Zinc plated steel or Stainless steel SS316
Pack Quantity	100 pieces

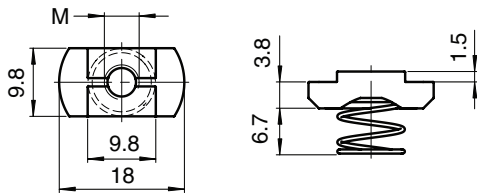
5

T-nut	H (mm)	Size	Weight (g)	Part Number (Pack Qty = 100)
Steel	3.0	M4	7.9	096H10430
	3.0	M5	7.7	096H10530
	3.0	M6	7.2	096H10630
	3.0	M8	6.1	096H10830
	3.0	10-32 UNF	7.6	096H1010-3230
Stainless steel	3.0	M6	7.3	096H10630E
	3.0	M8	6.1	096H10830E

T-nut With Spring



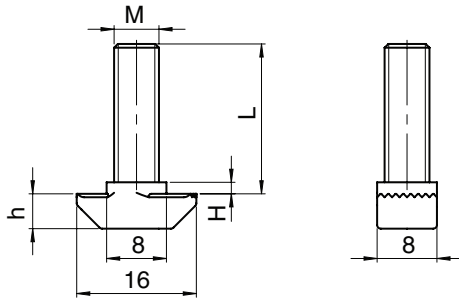
5



Model	Slot 10, steel
Description	To fasten components to profiles
Material	Nut: Zinc plated steel Spring: Steel
Pack Quantity	100 pieces

T-nut With Spring	Size	Weight (g)	Part Number (Pack Qty = 100)
	M4	5.0	096F1004
	M5	4.2	096F1005
	M6	4.1	096F1006
	M8	3.9	096F1008

T-bolt Slot 8

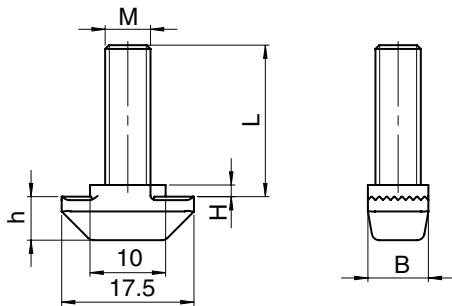


Model	Slot 8, steel or stainless steel
Description	To fasten components to profiles, breaks the anodized coat of the profile - thus ensuring a safe, electrically  conductive connection
Material	Zinc plated steel or stainless steel SS316
Pack Quantity	100 pieces
Tip	Compatible flange nut see page 134 *Made of T-nut with glued threaded rod

5

T-bolt	H (mm)	Size M x L (mm)	Weight (g)	Part Number (Pack Qty = 100)
Steel	1.5	M6 x 16	5.3	096HK0815M0616
	1.5	M6 x 20	6.2	096HK0815M0620
	1.5	M6 x 25	7.0	096HK0815M0625
	1.5	*M6 x 30	8.6	096HK0815M0630
	1.5	*M6 x 40	10.4	096HK0815M0640
	1.5	M6 x 60	13.4	096HK0815M0660
	1.5	M8 x 20	9.0	096HK0815M0820
	1.5	M8 x 25	10.6	096HK0815M0825
	1.5	M8 x 30	12.1	096HK0815M0830
Stainless steel	1.5	*M6 x 20	7.6	096HK0815M0620E
	1.5	*M6 x 25	8.4	096HK0815M0625E
	1.5	*M6 X 30	9.4	096HK0815M0630E
	1.5	*M6 X 40	11.2	096HK0815M0640E
	1.5	*M6 X 60	14.4	096HK0815M0660E

T-bolt Slot 10



Model	Slot 10, steel
Description	To fasten components to profiles, breaks the anodized coat of the profile - thus ensuring a safe, electrically conductive connection
Material	Zinc plated steel
Pack Quantity	100 pieces
Tip	Compatible flange nut see page 134 *Made of T-nut with glued threaded rod

T-nut	B (mm)	H (mm)	Size M x L (mm)	Weight (g)	Part Number (Pack Qty = 100)
	9.7	3.0	*M6 x 20	11.2	096HK1030M0620
	9.7	3.0	*M6 x 25	12.0	096HK1030M0625
	9.7	3.0	*M6 x 30	12.8	096HK1030M0630
	9.7	3.0	*M6 x 40	14.4	096HK1030M0640
	9.7	3.0	*M6 x 60	17.6	096HK1030M0660
	8.5	3.0	M8 x 20	13.3	096HK1030M0820
	8.5	3.0	M8 x 25	14.8	096HK1030M0825
	8.5	3.0	M8 x 30	16.3	096HK1030M0830
	8.5	3.0	M8 x 40	19.4	096HK1030M0840
	8.5	3.0	M8 x 60	25.5	096HK1030M0860
	8.5	4.5	M8 x 20	14.2	096HK1045M0820
	8.5	4.5	M8 x 25	14.4	096HK1045M0825
	8.5	4.5	M8 x 30	14.6	096HK1045M0830

Assembly Tip

These fasteners are used in
10 mm T-slot Gusset Kits

M8 x 25
T-bolt



096HK1030M0825

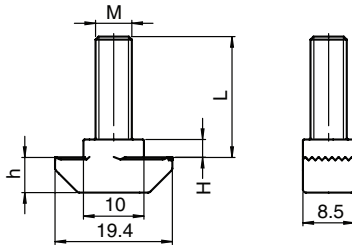


M8
Flangenut



340ME154

Stainless Steel T-bolt Slot 10



Model	Slot 10, stainless steel
Description	To fasten components to profiles, breaks the anodized coat of the profile - thus ensuring a safe, electrically  conductive connection
Material	Stainless steel SS316
Pack Quantity	100 pieces
Tip	Compatible flange nut see page 134 *Made of T-nut with glued threaded rod

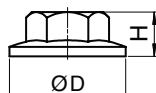
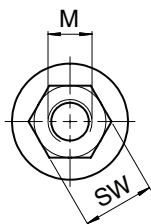
5

Stainless Steel T-bolt	H (mm)	Size M x L (mm)	Weight (g)	Part Number (Pack Qty = 100)
	3.0	M6 x 20	11.3	096HK1030M0620E
	3.0	M6 x 25	12.1	096HK1030M0625E
	3.0	M6 x 30	13.1	096HK1030M0630E
	3.0	M6 x 40	14.9	096HK1030M0640E
	3.0	M6 x 60	18.1	096HK1030M0660E
	3.0	*M8 x 20	13.5	096HK1030M0820E
	3.0	*M8 x 25	15.2	096HK1030M0825E
	3.0	M8 x 30	16.7	096HK1030M0830E
	3.0	M8 x 40	19.9	096HK1030M0840E
	3.0	M8 x 60	26.3	096HK1030M0860E

Flange Nut



5



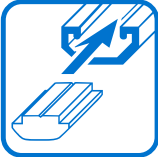
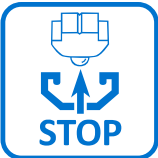
Model	Steel or stainless steel
Description	To be used in conjunction with a T-bolt
Material	Zinc plated steel or stainless steel
Pack Quantity	100 pieces

Flange Nut		D (mm)	H (mm)	Size M	SW (mm)	Weight (g)	Part Number (Pack Qty = 100)
Steel		14.0	6.0	M6	10	3.0	4DIN6923M06M
Steel		21.0	8.0	M8	13	6.0	340ME154
Stainless steel		14.0	6.0	M6	10	3.0	4DIN6923M06E
Stainless steel		17.9	8.0	M8	13	6.0	4DIN6923M08ES02

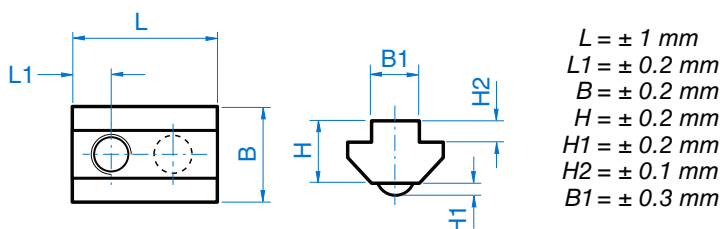
This section contains other various types of T-slot fasteners.

Symbols

In order to make finding the correct T-slot fastener as easy as possible, we have used the following symbols:

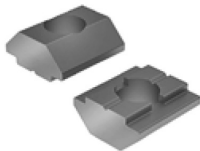
Legend	Description
	Slot size The number indicates the slot width in mm of the slot for which the T-slot fastener is intended.
	Sliding Block This symbol shows that the T-slot sliding block is inserted into the slot from the top or the bottom of the profile. The alternative is a swivel-in sliding block.
	Swivel-in Sliding Block This symbol indicates that the T-slot sliding block can be rolled into the slot of the profile, which is especially useful when you want to insert the fastener into an existing structure.
	Fixation To facilitate assembly, some T-slot fasteners come with fixation elements such as a spring loaded ball or a spring leaf, allowing them to stay in place. You can recognize them by this symbol.

Dimensional Tolerances

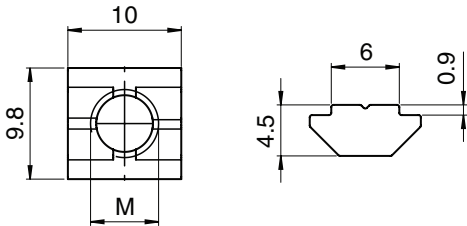


All information is just for reference and does not pose a legally binding agreement about the product properties.

T-slot Nut (Sliding Block) 9.8x4.5 mm



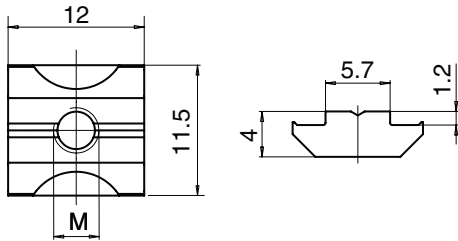
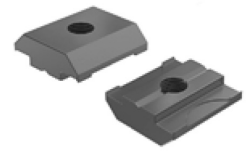
5



Model	Slot 6, self-aligning, steel
Description	Self-aligning T-slot nut
Material	Zinc plated steel
Pack Quantity	100 pieces

T-slot Nut (Sliding Block)	Size	Weight (g)	Part Number (Pack Qty = 100)
	M4	2.4	096504
	M5	2.2	096505
	M6	1.9	096506

T-slot Nut (Sliding Block) 11.0x4.0 mm Stainless Steel

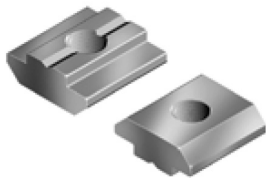


Model	Slot 6, self-aligning, stainless steel
Description	Self-aligning T-slot nut, electrostatically discharging
Material	Stainless steel SS304 / SS303
Pack Quantity	100 pieces

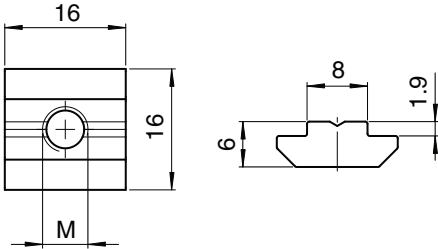
5

T-slot Nut (Sliding Block)	Size	Weight (g)	Part Number (Pack Qty = 100)
	M4	3.0	096484E
	M5	3.0	096485E

T-slot Nut (Sliding Block) 16.0x6.0 mm



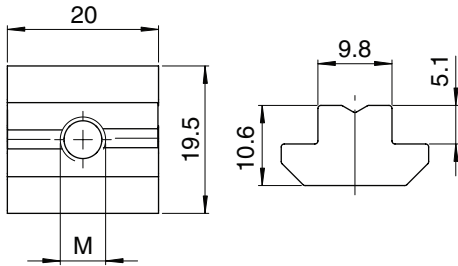
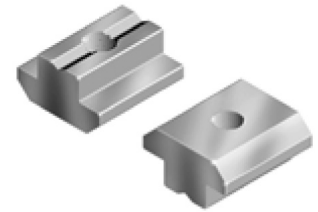
5



Model	Slot 8, self-aligning, steel
Description	Self-aligning T-slot nut
Material	T-slot nut: Zinc plated steel Rod: Steel, plain, without thread
Pack Quantity	100 pieces
Tip	*Compatible spring Part# 096FN08

T-slot Nut (Sliding Block)	Size	Weight (g)	Part Number (Pack Qty = 100)
	M4	8.6	*096014
	M5	8.2	*096015
	M6	7.8	*096016
	M8	7.2	*096018
Sliding block profile	Length = 1500 mm	873.0	096010.1500

T-slot Nut (Sliding Block) 19.5x10.6 mm



Model	Slot 10, self-aligning, steel
Description	Self-aligning T-slot nut
Material	T-slot nut: Zinc plated steel Profile: Steel, plain, without thread
Pack Quantity	100 pieces
Tip	*Compatible spring Part# 096FN10

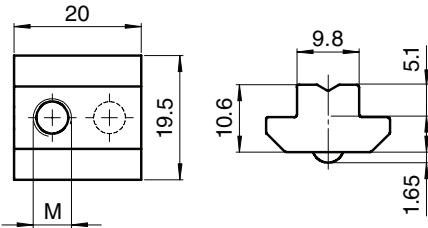
5

T-slot Nut (Sliding Block)	Size	Weight (g)	Part Number (Pack Qty = 100)
	M4	21.5	*096034
	M5	20.9	*096035
	M6	20.3	*096036
	M8	18.6	*096038
Sliding block profile	Length = 1500 mm	1732.5	096030.1500

T-slot Nut (Sliding Block) With Ball Spring 19.5x10.6 mm



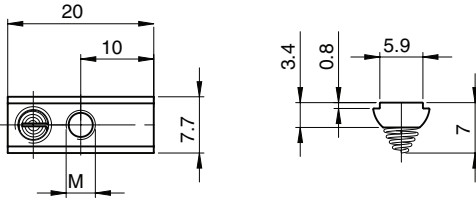
5



Model	Slot 10, self-aligning with spring loaded ball, steel
Description	Self-aligning T-slot nut with spring loaded ball
Material	T-slot nut: Zinc plated steel Ball: Stainless steel
Pack Quantity	100 pieces

T-slot Nut (Sliding Block)	Size	Weight (g)	Part Number (Pack Qty = 100)
	M4	21.5	096030S06
	M5	20.9	096030S07
	M6	20.0	096030S08
	M8	18.6	096030S09

Swivel-In T-slot Nut (Sliding Block) 7.7x3.4 mm

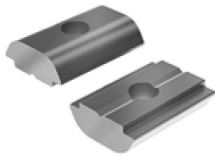


Model	Slot 6, self-aligning with spiral spring, steel
Description	Self-aligning swivel-in T-slot nut with spiral spring
Material	Steel
Pack Quantity	100 pieces

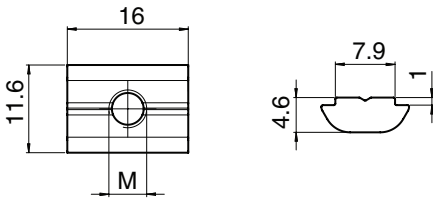
5

Swivel-In T-slot Nut (Sliding Block)	Size	Weight (g)	Part Number (Pack Qty = 100)
	M4	2.6	096244F
	M5	2.4	096245F

Swivel-In T-slot Nut (Sliding Block) 11.6x4.6 mm



5



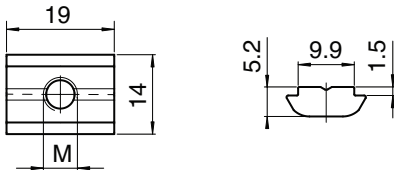
Model	Slot 8, self-aligning, steel
Description	Self-aligning swivel-in T-slot nut
Material	T-slot nut: Zinc plated steel Profile: Steel, plain, without thread
Pack Quantity	100 pieces
Tip	*Compatible spring Part# 096FN08

Swivel-In T-slot Nut (Sliding Block)	Size	Weight (g)	Part Number (Pack Qty = 100)
	M4	4.2	*096314
	M5	3.8	*096315
	M6	3.2	*096316
	M8	2.6	*096318
Swivel-In sliding block profile	Length = 1500 mm	175.0	096310.1500

Swivel-In T-slot Nut (Sliding Block)



14.0 x 5.2 mm

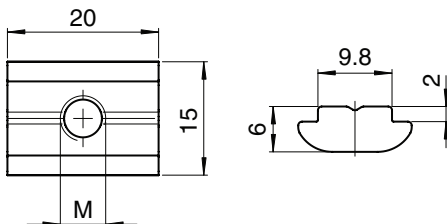


Model	Slot 10, self-aligning, steel
Description	Self-aligning swivel-in T-slot nut
Material	T-slot nut: Zinc plated steel Profile: Steel, plain, without thread
Pack Quantity	100 pieces

5

Swivel-In T-slot Nut (Sliding Block)	Size	Weight (g)	Part Number (Pack Qty = 100)
	M4	8.0	096164
	M5	8.2	096165
	M6	7.6	096166
	M8	8.0	096168
	10-32 UNF	8.0	09616U10-32
Swivel-In sliding block profile	Length = 1500 mm	382.0	096160.1500

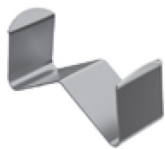
15.0 x 6.0 mm



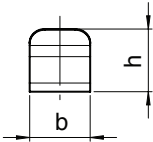
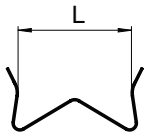
Model	Slot 10, self-aligning, steel
Description	Self-aligning swivel-in T-slot nut
Material	T-slot nut: Zinc plated steel Profile: Steel, plain, without thread
Pack Quantity	100 pieces
Tip	*Compatible spring Part# 096FN10

Swivel-In T-slot Nut (Sliding Block)	Size	Weight (g)	Part Number (Pack Qty = 100)
	M3	13.0	*096083
	M4	12.5	*096084
	M5	13.0	*096085
	M6	12.0	*096086
	M8	11.0	*096088
Swivel-In sliding block profile	Length = 1500 mm	841.5	096080.1500

Spring For T-slot Nut (Sliding Block)

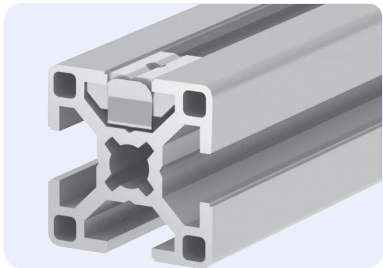


5

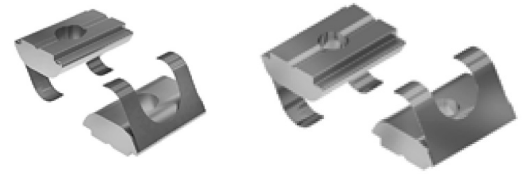


Model	Slot 8 & 10
Description	Use as a mounting or positioning aid on T-slot nuts and swivel-in T-slot nuts.
Material	Spring steel SS301
Pack Quantity	100 pieces

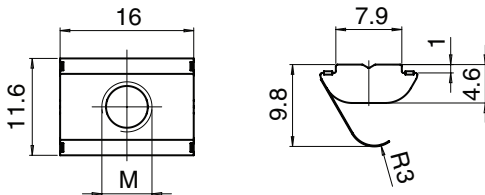
Spring for T-slot Nut	L (mm)	Weight (g)	Part Number (Pack Qty = 100)
Slot 8	16.5	0.4	096FN08
Slot 10	20	0.5	096FN10



Swivel-In T-slot Nut (Sliding Block) With Spring



11.6 x 4.6 mm

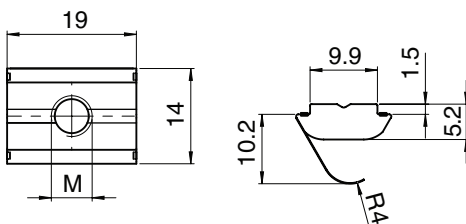


Model	Slot 8, self-aligning with spring leaf, steel
Description	Self-aligning swivel-in T-slot nut with spring leaf, electrostatically discharging
Material	Zinc plated steel
Pack Quantity	100 pieces

5

Swivel-In T-slot Nut With Spring	Size	Weight (g)	Part Number (Pack Qty = 100)
	M4	4.8	096314F
	M5	4.7	096315F
	M6	4.4	096316F
	M8	3.6	096318F

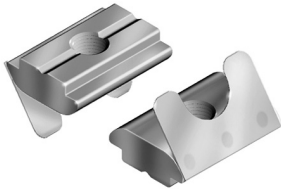
14.0 x 5.2 mm



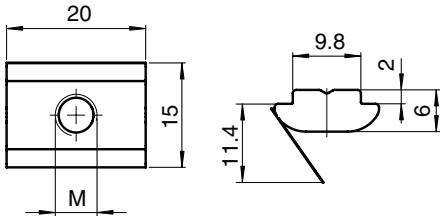
Model	Slot 10, self-aligning with spring leaf, steel
Description	Self-aligning swivel-in T-slot nut with spring leaf, electrostatically discharging
Material	Steel
Pack Quantity	100 pieces

Swivel-In T-slot Nut With Spring	Size	Weight (g)	Part Number (Pack Qty = 100)
	M4	7.7	096164F
	M5	7.6	096165F
	M6	7.4	096166F
	M8	7.1	096168F
	10-32 UNF	7.6	09616U10-32F

Swivel-In T-slot Nut (Sliding Block) With Spring 15.0x6.0 mm



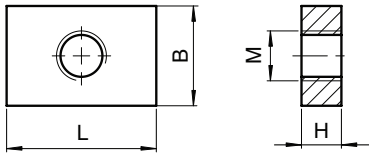
5



Model	Slot 10, self-aligning with spring leaf, steel
Description	Self-aligning swivel-in T-slot nut with spring leaf
Material	Zinc plated steel
Pack Quantity	100 pieces

Swivel-In T-slot Nut With Spring	Size	Weight (g)	Part Number (Pack Qty = 100)
	M4	10.6	096084F
	M5	13.0	096085F
	M6	12.0	096086F
	M8	11.0	096088F

Threaded Plate

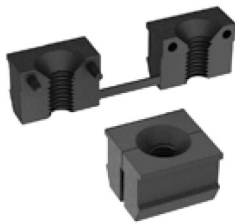


Model	Customized dimensions, one or several threads
Description	To fasten components with a screw
Material	Zinc plated steel
Dimensions	L x B x H
Pack Quantity	100 pieces

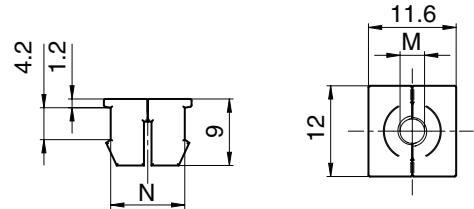
5

Threaded Plate	Thread	Dimensions L x B x H (mm)	Weight (g)	Part Number (Pack Qty = 100)
	M4	20 x 20 x 4	11.4	096P0202004M4
	M5	20 x 20 x 4	11.3	096P0202004M5
	M6	20 x 20 x 4	11.0	096P0202004M6
	M5	20 x 20 x 6	16.5	096P0202006M5
	M6	20 x 20 x 6	16.4	096P0202006M6
	M8	20 x 20 x 6	16.5	096P0202006M8

Expanding Nut



5



Model	Slot 10, PA
Description	To fasten components to profiles
Material	Plastic PA, glass fiber reinforced
Color	Black
Pack Quantity	100 pieces

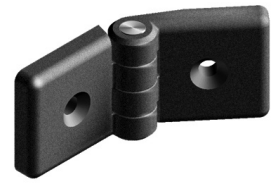
Expanding Nut	T-slot (N)	Size	Weight (g)	Part Number (Pack Qty = 100)
	10	M4	1.00	096SM10M04
	10	M5	0.95	096SM10M05
	10	M6	0.90	096SM10M06



Light Stainless Steel Hinge
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Concealed Hinge Components
Page 151



Plastic Hinges
Page 152



Aluminum Hinges
Page 156



Heavy Aluminum Hinge
Page 161



Handles
Page 160



Door Locks
Page 162



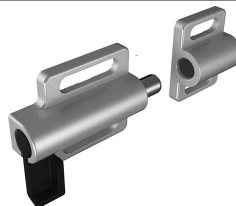
Slam and Sliding Latches
Page 163



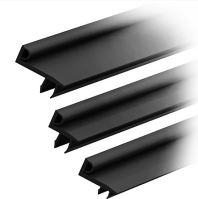
Double Ball Catch
Page 166



Magnetic Catch
Page 167



Door Latch
Page 168



Sealing Strip
Page 169



Profile Sliders
Page 170



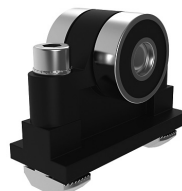
Panel Slider
Page 174



Folding Door Element
Page 175

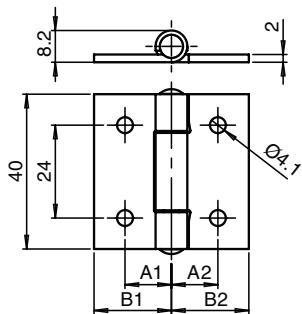
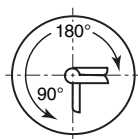


Sliding Door Guide Set
Page 176



Trolley Set
Page 177

Light Stainless Steel Hinge

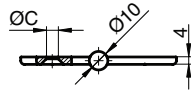
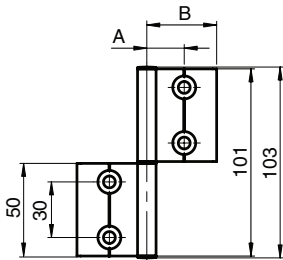
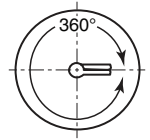


Model	Non-detachable
Description	To hinge panels or aluminum profiles
Material	Wing: Stainless steel 1.4301 Axle: Stainless steel 1.4301
Fastening	From the front, using M4 countersunk screws
Assembly Set	4 pan-head screws ISO 7380 - M4 × 6, 4 6m T-nuts - M4
Pack Quantity	10 pieces

Light Stainless Steel Hinge	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)	FMax (N)	FRmax (N)	Weight (g)	Part Number (Pack Qty = 10)
With assembly set	12.0	12.0	20.0	20.0	320.0	390.0	45.0	095072S01

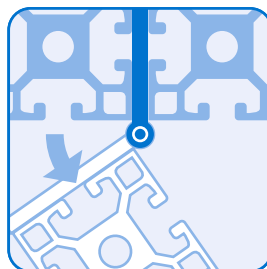
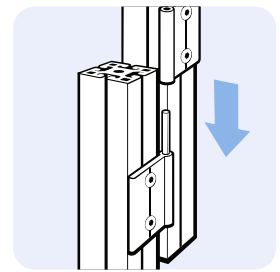
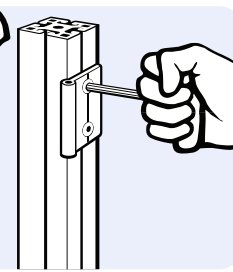
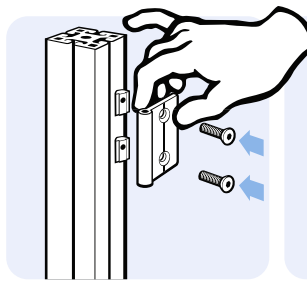
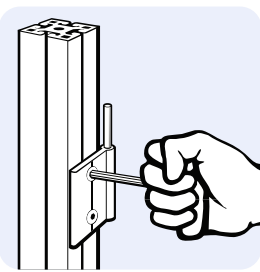
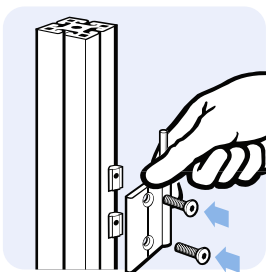


Concealed Hinge Component

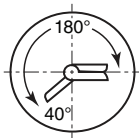


Model	Aluminum, anodized
Description	For panels and aluminum profiles, for individual assembly of concealed hinges
Material	Wing: Aluminum Axle: Stainless steel Cover cap: PA, glass fiber reinforced
Fastening	From the front, using countersunk screws
Pack Quantity	10 pieces

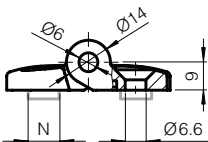
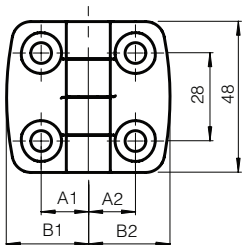
Internal Hinge	A (mm)	B (mm)	C (mm)	F _A max (N)	F _R max (N)	Weight (g)	Part Number (Pack Qty = 10)
20	14.5	22.0	Ø5.3	150	100	15.0	095AI20
30	19.5	32.0	Ø6.4	150	100	20.0	095AI30
40	25.0	42.0	Ø6.4	150	100	25.3	095AI40
45	27.0	47.0	Ø6.4	150	100	28.0	095AI45
60	34.5	62.0	6.4	150	100	36.0	095AI60
Axle						12.0	095AIR01
Cover cap						0.15	095AIA



Plastic Combi Hinge 25



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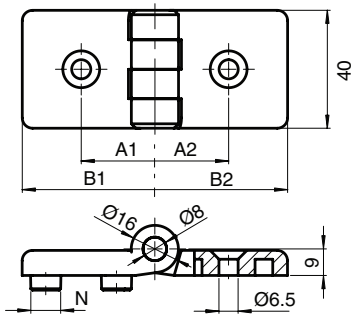
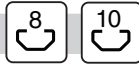
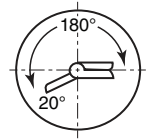
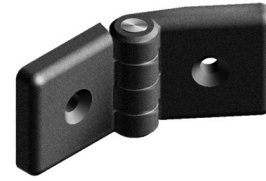


Model	Non-detachable
Description	To hinge panels or aluminum profiles
Material	Wings: Plastic PA, glass fiber reinforced Axle: Stainless steel
Color	Black
Fastening	From the front, using M6 countersunk screws
Pack Quantity	10 pieces

Hinge	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)	F _{Amax} (N)	F _{Rmax} (N)	Description	Weight (g)	Part Number (Pack Qty = 10)
Non-detachable	15.0	17.5	26.0	29.5	400	750	25/30	34.0	095K2530F00

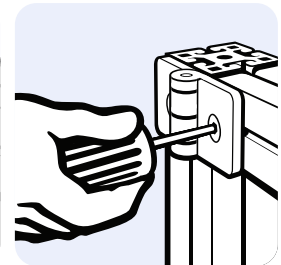
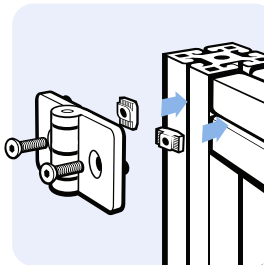
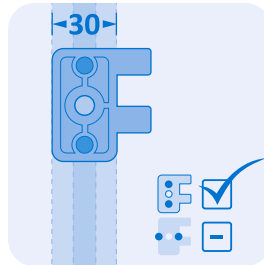
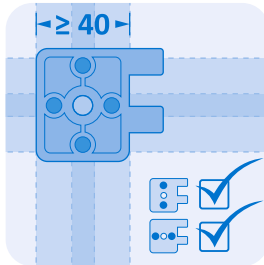
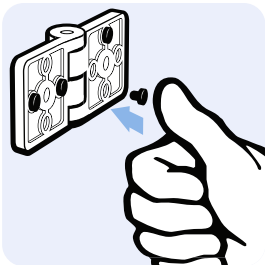


Heavy-Duty Plastic Hinge 30

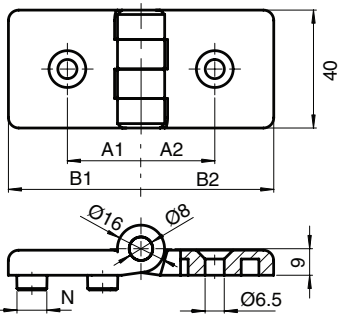
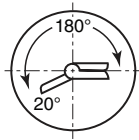


Model	Non-detachable
Description	To hinge panels or aluminum profiles; each side has two holes for centering bolts
Material	Wings: Plastic PA, glass fiber reinforced Axle: Stainless steel Assembly set: Steel
Color	Wings: Black
Fastening	From the front, using M6 countersunk screws
Assembly Set 2	1 screw DIN 7991 - M6 x 16, 1 T-nut slot 8 - M6, 1 screw DIN 7991 - M6 x 18, 1 T-nut slot 10 - M6
Pack Quantity	10 pieces

Heavy-Duty Plastic Hinge 30	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)	Fmax (N)	FRmax (N)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
30 / 30	17.5	17.5	30.0	30.0	150.0	280.0	8	37.0	095KS3030F08
30 / 40	17.5	22.5	30.0	39.0	150.0	280.0	8 / 10	39.0	095KS3040F0810
30 / 45	17.5	25.0	30.0	45.0	150.0	280.0	8 / 10	40.0	095KS3045F0810
30 / 60	17.5	32.5	30.0	60.0	130.0	280.0	8 / 10	44.0	095KS3060F0810
30 / 40 With assembly set 2	17.5	22.5	30.0	39.0	150.0	280.0	8 / 10	44.0	095KS3040F0810S01
30 / 45 With Assembly set 2	17.5	25.0	30.0	45.0	150.0	280.0	8 / 10	45.0	095KS3045F0810S02
30 / 60 With assembly set 2	17.5	32.5	30.0	60.0	130.0	280.0	8 / 10	49.0	095KS3060F0810S01

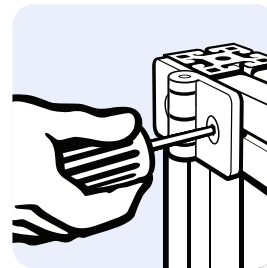
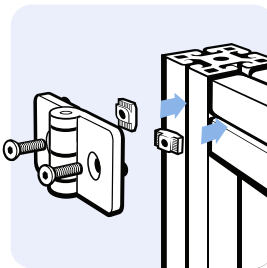
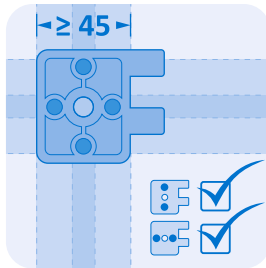
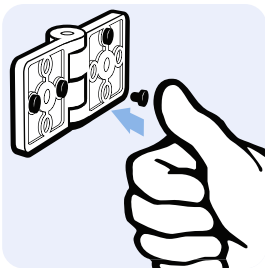


Heavy-Duty Plastic Hinge 45

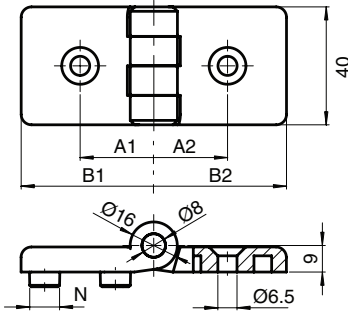
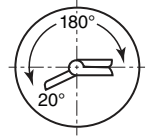
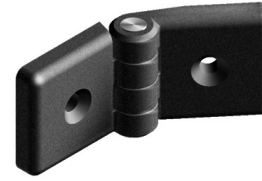


Model	Non-detachable
Description	To hinge panels or aluminum profiles; each side has two holes for centering bolts
Material	Wings: Plastic PA, glass fiber reinforced Axle: Stainless steel Assembly set: Steel
Color	Wings: Black
Fastening	From the front, using M6 countersunk screws
Assembly Set 3	2 screws DIN 7991 - M6 × 18, 2 T-nuts slot 10 - M6
Pack Quantity	10 pieces

Heavy-Duty Plastic Hinge 45	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)	FMax (N)	FRmax (N)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
45 / 45	25.0	25.0	45.0	45.0	150.0	280.0	10	46.0	095KS4545F10
45 / 60	25.0	32.5	45.0	60.0	130.0	280.0	10	50.0	095KS4560F10
45 / 45 With assembly set 3	25.0	25.0	45.0	45.0	150.0	280.0	10	51.0	095KS4545F10S03
45 / 60 With assembly set 3	25.0	32.5	45.0	60.0	130.0	280.0	10	55.0	095KS4560F10S01

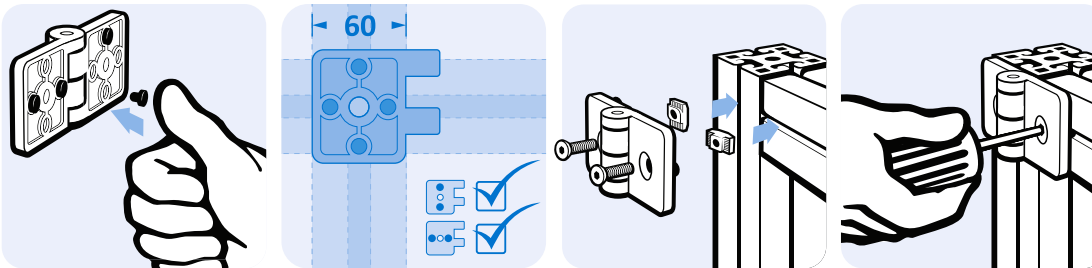


Heavy-Duty Plastic Hinge 60

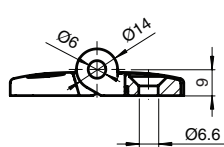
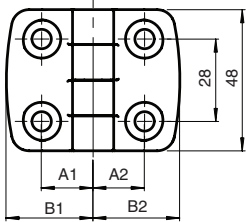
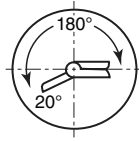


Model	Non-detachable
Description	To hinge panels or aluminum profiles; each side has two holes for centering bolts
Material	Wings: Plastic PA, glass fiber reinforced Axle: Stainless steel Assembly set: Steel
Color	Wings: Black
Fastening	From the front, using M6 countersunk screws
Assembly Set 3	2 screws DIN 7991 - M6 × 18, 2 T-nuts slot 10 - M6
Pack Quantity	10 pieces

Heavy-Duty Plastic Hinge 60	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)	F _{Amax} (N)	F _{Rmax} (N)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
60 / 60	32.5	32.5	60.0	60.0	130.0	280.0	10	53.0	095KS6060F10
60 / 60 With assembly set 3	32.5	32.5	60.0	60.0	130.0	280.0	10	58.0	095KS6060F10S01

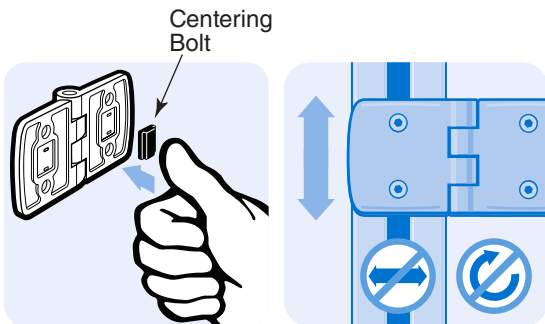


Aluminum Die-cast Combi Hinge 30

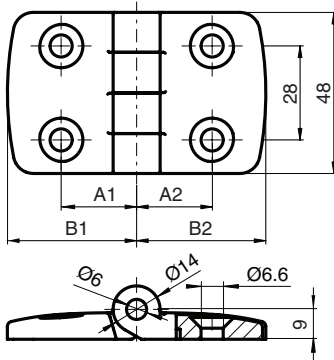
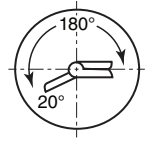


Model	Non-detachable
Description	To hinge panels or aluminum profiles, each wing with a hole for centering bolts, with bearing system for axle
Material	Wings: Die-cast aluminum Axle: Stainless steel Bearings: PTFE Centering bolts (optional): Plastic PA, glass fiber reinforced
Color	Centering bolts (optional): Black
Fastening	From the front, using M6 countersunk screws
Pack Quantity	10 pieces

Combi Hinge	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)	F _{Amax} (N)	F _{Rmax} (N)	Description	Weight (g)	Part Number (Pack Qty = 10)
Non-detachable	17.5	17.5	29.5	29.5	225	325	30 / 30	65.0	095A3030FS20
	17.5	22.5	29.5	38.5	250	400	30 / 40	67.0	095A3040FS20
	17.5	25.0	29.5	43.5	250	400	30 / 45	69.0	095A3045FS20
	17.5	32.5	29.5	57.5	100	400	30 / 60	77.0	095A3060FS20
Centering bolt							Slot 8	1.0	095AN08
							Slot 10	1.0	095AN10

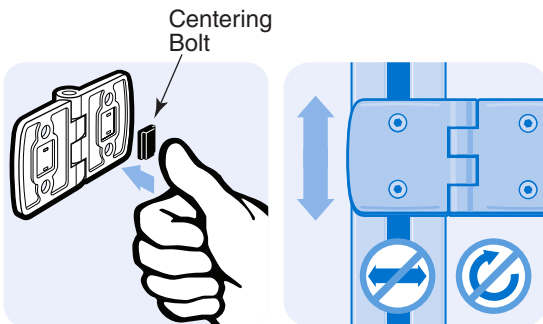


Aluminum Die-cast Combi Hinge 40

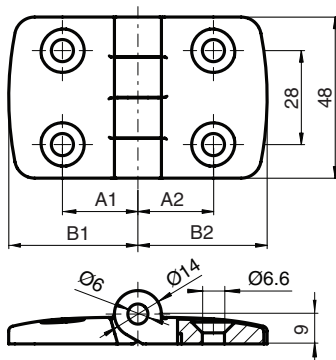
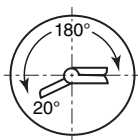


Model	Non-detachable
Description	To hinge panels or aluminum profiles, each wing with a hole for centering bolts, with bearing system for axle
Material	Wings: Die-cast aluminum Axle: Stainless steel Bearings: PTFE Centering bolts (optional): Plastic PA, glass fiber reinforced
Color	Centering bolts (optional): Black
Fastening	From the front, using M6 countersunk screws
Pack Quantity	10 pieces

Combi Hinge	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)	FMax (N)	FRmax (N)	Description	Weight (g)	Part Number (Pack Qty = 10)
Non-detachable	22.5	22.5	38.5	38.5	250	400	40 / 40	69.0	095A4040FS20
	22.5	25.0	38.5	43.5	250	400	40 / 45	71.0	095A4045FS20
	22.5	27.5	38.5	48.5	250	400	40 / 50	74.0	095A4050FS20
	22.5	32.5	38.5	57.5	100	400	40 / 60	79.0	095A4060FS20
Centering bolt							Slot 10	1.0	095AN10

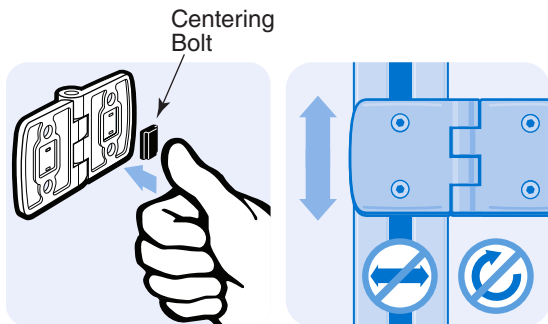


Aluminum Die-cast Combi Hinge 45

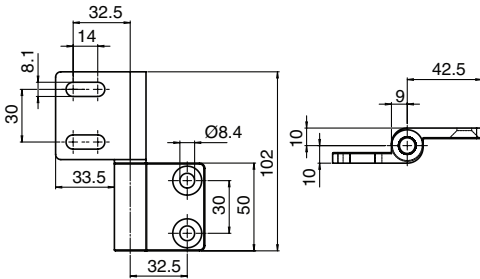
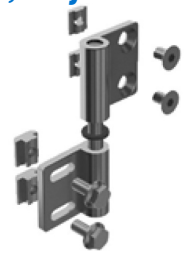


Model	Non-detachable
Description	To hinge panels or aluminum profiles, each wing with a hole for centering bolts, with bearing system for axle
Material	Wings: Die-cast aluminum Axle: Stainless steel Bearings: PTFE Centering bolts (optional): Plastic PA, glass fiber reinforced
Color	Centering bolts (optional): Black
Fastening	From the front, using M6 countersunk screws
Pack Quantity	10 pieces

Combi Hinge	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)	FMax (N)	FRmax (N)	Description	Weight (g)	Part Number (Pack Qty = 10)
Non-detachable	25.0	25.0	43.5	43.5	250	400	45 / 45	73.0	095A4545FS20
	25.0	27.5	43.5	48.5	250	400	45 / 50	76.0	095A4550FS20
	25.0	32.5	43.5	57.5	100	400	45 / 60	81.0	095A4560FS20
Centering bolt							Slot 10	1.0	095AN10

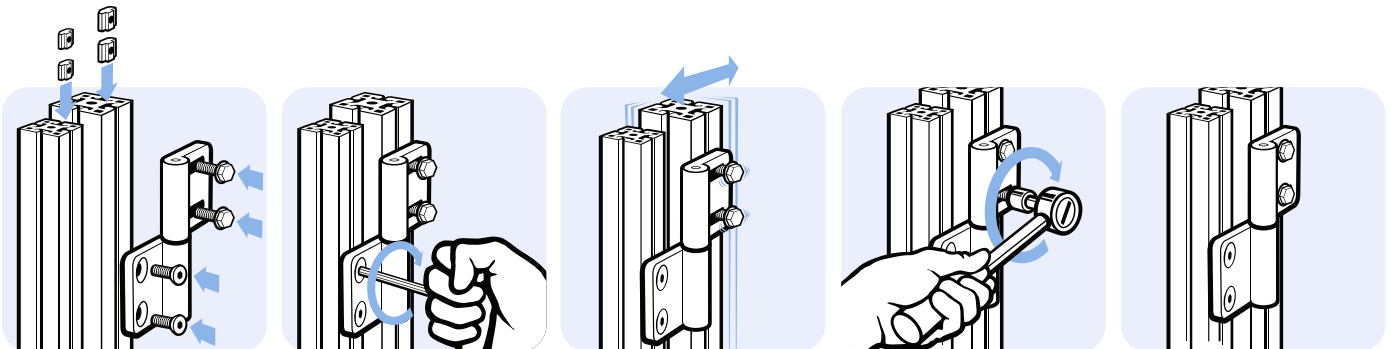


Heavy Aluminum Hinge Set (Hinge, Adjustable)

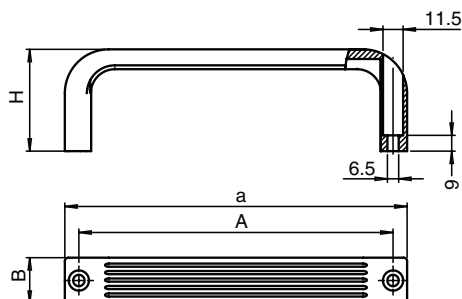
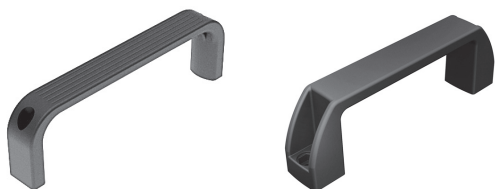


Model	Detachable, adjustable
Description	Loadable detachable hinge; adjustable for the compensation of distance tolerances
Material	Wings: Aluminum die-cast Axle: Stainless steel
Fastening	From the front, using two hexagon and two countersunk screws M8
Set	1 heavy aluminum hinge, 2 T-slot nuts, slot 10 - M8 – self-aligning, 2 hexagon screws DIN 6921 - M8 × 16, 2 countersunk screws DIN 7991 - M8 × 12, 2 T-slot nuts, slot 8 - M8 – self-aligning
Pack Quantity	2 pieces

Heavy Aluminum Hinge Set	Weight (g)	Part Number (Pack Qty = 2)
	262.7	095071

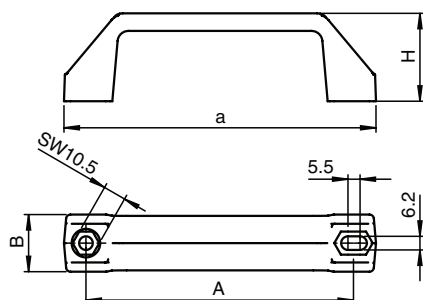


Bridge Handle (Strap-Shaped Handle)



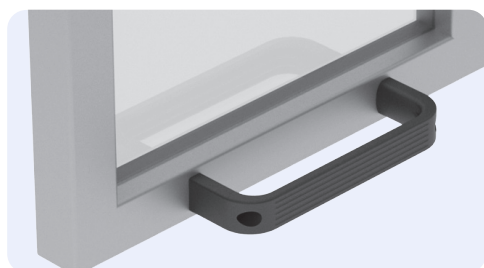
Model	Plastic PA
Description	To mount on doors, flaps and aluminum profiles
Material	Plastic PA, glass fiber reinforced
Color	Black
Fastening	From the front, using socket head screws
Pack Quantity	10 pieces

Bridge Handle (a)	A (mm)	B (mm)	H (mm)	ESD	For Screw	Weight (g)	Part Number (Pack Qty = 10)
133	118.0	26.0	50.0		M6	52.9	092308
195	179.0	26.0	58.0		M6	74.4	092307
133	118.0	26.0	50.0		M6	52.0	092308S01
195	179.0	26.0	58.0		M6	65.3	092307S01

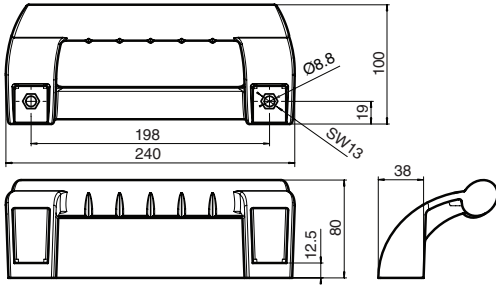


Model	Plastic PA
Description	To mount on doors, flaps and aluminum profiles
Material	Plastic PA, glass fiber reinforced
Color	Black
Fastening	From the front, using socket head screws; from the back using inserted hexagon nuts or hexagon cap
Pack Quantity	10 pieces

Bridge Handle (a)	A (mm)	B (mm)	H (mm)	For Nut	For Screw	Weight (g)	Part Number (Pack Qty = 10)
152	152.0	28.0	53.5	SS10 (M6)	M6	70.0	092002

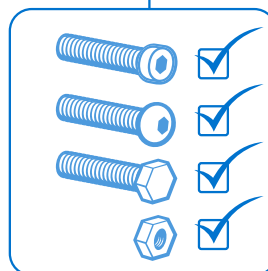
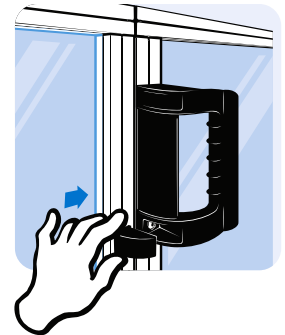
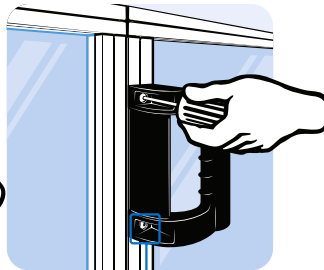
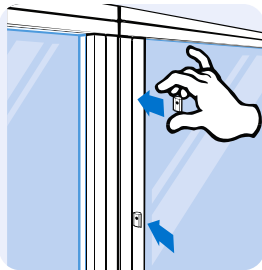


Machine Handle 240 (Safety Handle)

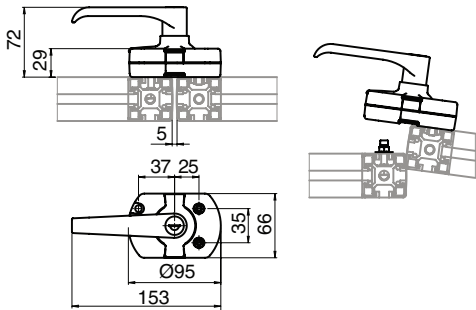


Model	Plastic PA
Description	Large machine handle with ergonomic design and finger protection; to mount on doors, flaps and aluminum profiles; with cover caps
Material	Plastic PA, glass ball reinforced
Color	Black
Fastening	From the front with hexagon cap screws or socket head screws, or from the back using M8 hexagon nuts and bolts
Pack Quantity	1 piece

Machine Handle	For Screw	Weight (g)	Part Number (Pack Qty = 1)
With cover caps	M8	356.0	092008

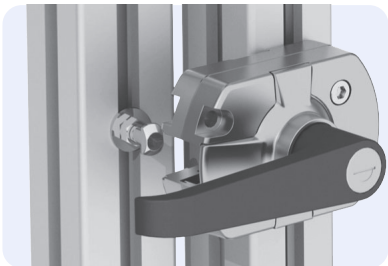


Door Lock (For Swing or Sliding Doors)

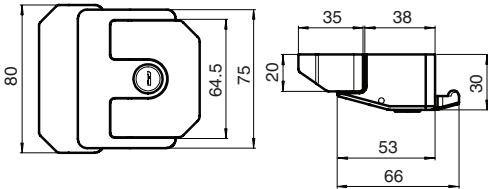


Model	Die-cast aluminum
Description	For easy and secure latching and locking of swing and sliding doors, no mechanical preparation needed for the assembly
Material	Housing: Die-cast aluminum Cross: Die-cast aluminum Handle: Zinc die-cast Fastening material: Steel
Color	Housing: Aluminum color Cross: Black Handle: Black
Set	1 door lock, 2 screws DIN 912 - M6 × 30, 1 washer 6-FSt, 1 anchor - M6, 1 nut DIN 934 - M6, 1 washer DIN 9021 form A - 6.4, 3 T-nut - slot 8 - M6, 3 T-nut - slot 10 - M6
Pack Quantity	1 piece
Tip	*Universal: one key fits all slam latches *Unique: each door lock has a different key **With double-bitted key

Door Lock (Set)	Lock	Weight (g)	Part Number (Pack Qty = 1)
	Unique*	407.0	0957505
	Universal*	407.0	0957504
	Double-bit lock**	407.0	0957506



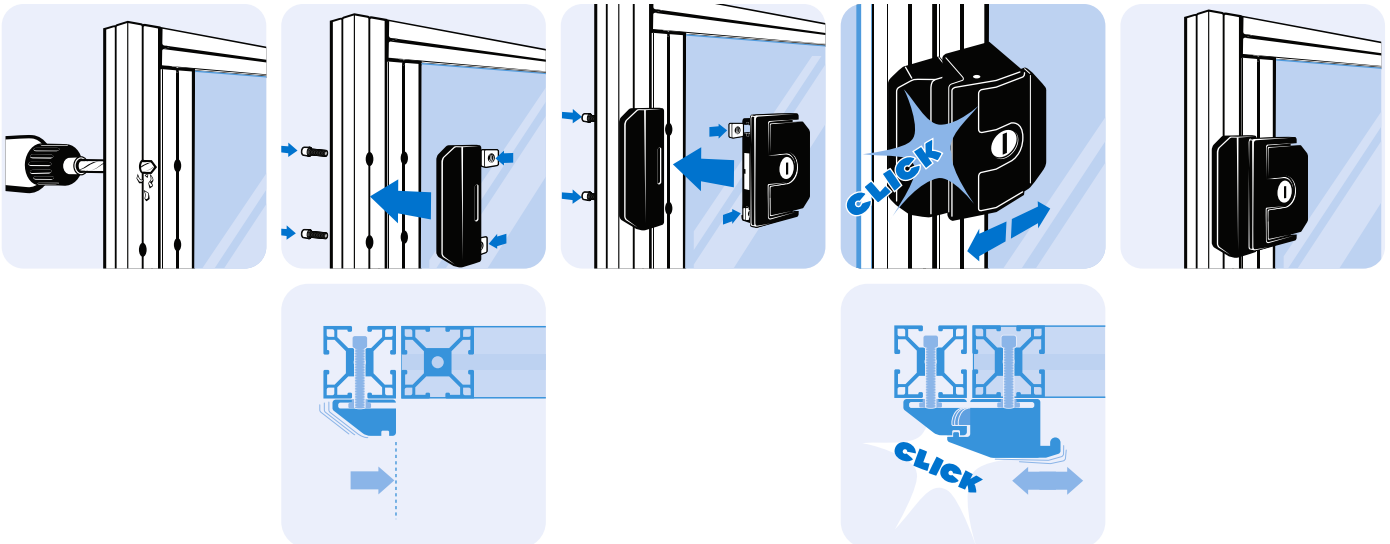
Slam Latch (Door Lock for Swinging Doors)



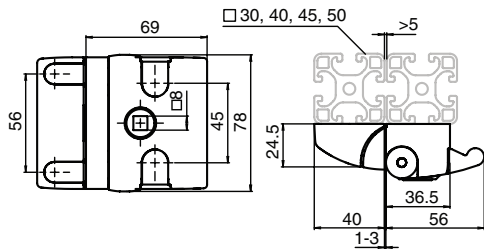
Model	Zinc die-cast
Description	To securely close doors and flaps
Material	Zinc die-cast
Fastening	From the back, using M6 screws
Pack Quantity	1 piece
Tip	*Universal: one key fits all slam latches *Unique: each slam latch has a different key

6

Slam Latch	Lock	Weight (g)	Part Number (Pack Qty = 1)
	Universal*	560.0	0957101
	Unique*	560.0	0957201
	Without	560.0	0957301

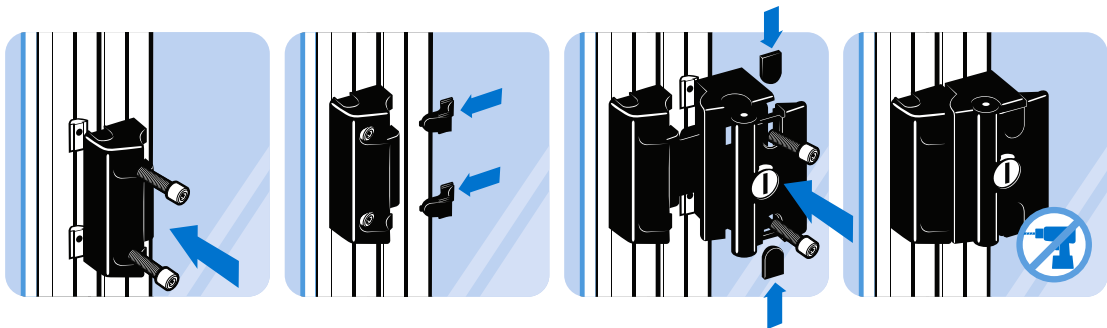


Slam Latch Compact

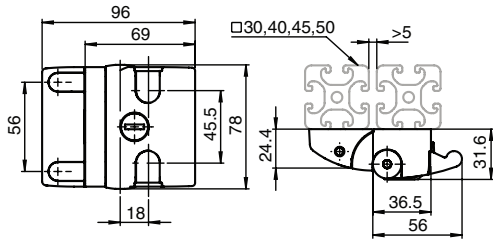


Model	Die-cast aluminum
Description	For easy and secure latching and locking of doors and flaps, no mechanical preparation needed for the assembly; safe against disassembling in the locked position
Material	Die-cast aluminum
Fastening	From the front, using M6 socket head or pan head screws
Pack Quantity	1 piece
Tip	*Universal: one key fits all slam latches *Unique: each slam latch has a different key

Slam Latch	Lock	Weight (g)	Part Number (Pack Qty = 1)
Black powder coated	Universal*	235.5	0957408
	Unique*	235.5	0957411
	Without	204.0	0957410

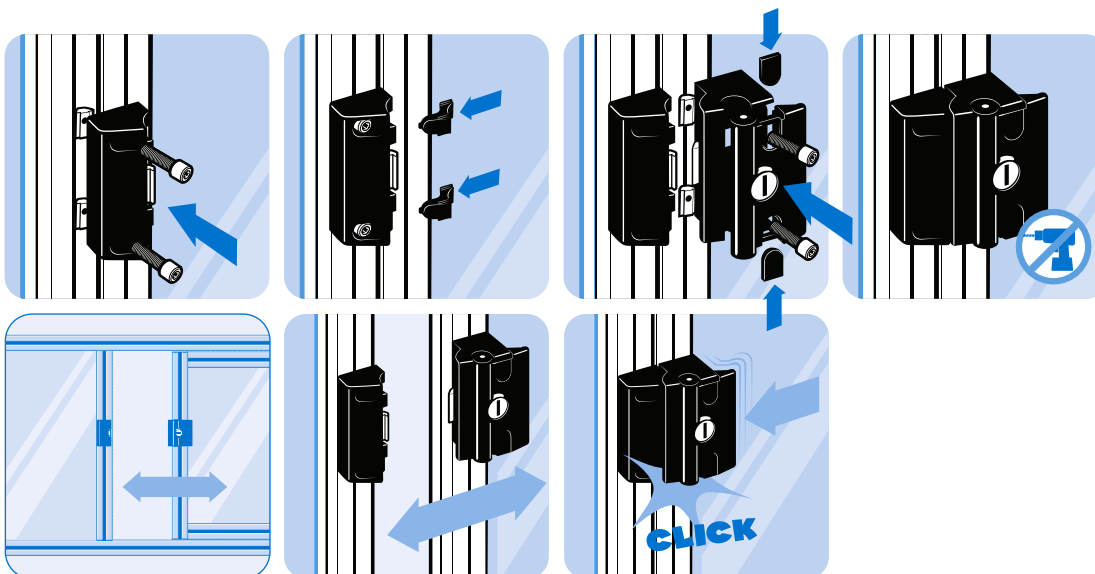


Slide Door Latch Compact

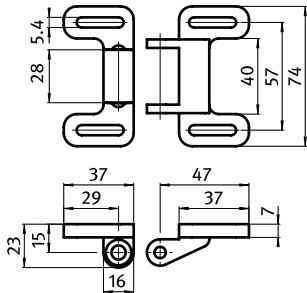


Model	Die-cast aluminum
Description	For easy and secure latching and locking of sliding doors and flaps, no mechanical preparation needed for the assembly; safe against disassembling in the locked position
Material	Die-cast aluminum
Surface	Black powder coated
Fastening	From the front, using M6 socket head or pan head screws
Pack Quantity	1 piece
Tip	*Universal: one key fits all slam latches *Unique: each slam latch has a different key

Slide Door Latch	Lock	Weight (g)	Part Number (Pack Qty = 1)
	Universal*	246.0	0957415
	Unique*	246.0	0957416
	Without	216.0	0957417

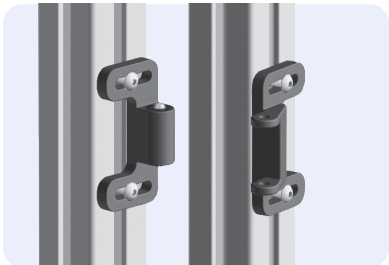


Double Ball Catch PA

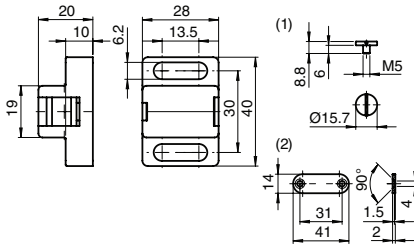


Model	Plastic PA
Description	A quick locking device for doors and flaps with and without frame
Material	Housing: Plastic PA, glass fiber reinforced Ball: Stainless steel Bushing: Steel, zinc plated
Color	Black
Fastening	Using M5 screws
Pack Quantity	10 pieces

Double Ball Catch PA	Locking Force	Weight (g)	Part Number (Pack Qty = 10)
	25	38.0	09304701
 electrostatically discharging	25	38.0	09304702

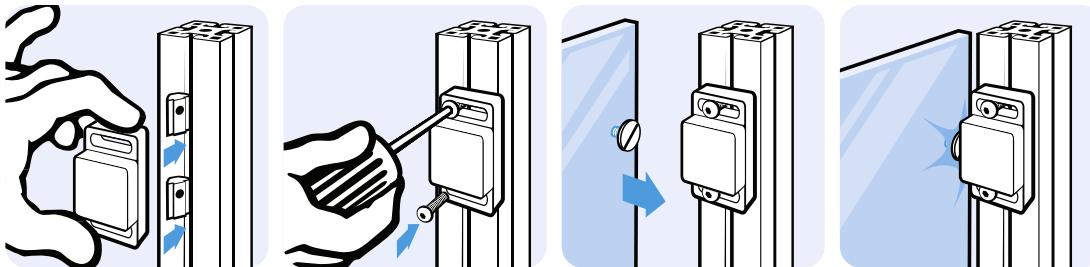


Magnetic Catch 30 (Set)

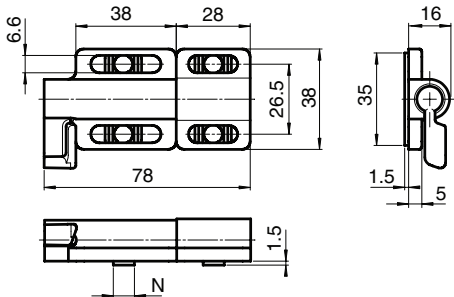
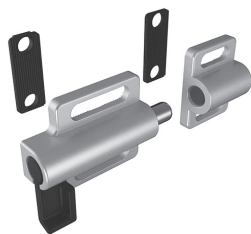


Model	Plastic PA
Description	A quick locking device for doors, adaptable to the thickness of the panel units
Material	Magnetic catch: Plastic PA, glass fiber reinforced Assembly set: Steel
Color	Magnetic catch: Black
Fastening	Magnetic catch: using M6 screws Counter plate: using M4 countersunk screws
Set	1 magnetic catch 30, 1 flat head screw DIN 921 - M5 × 6, 1 counter plate 14 × 41 × 2 mm
Pack Quantity	10 pieces

Magnetic Catch 30	Locking Force	Weight (g)	Part Number (Pack Qty = 10)
With mounting set	Approx. 20 N front / 10 N back	45.9	093044



Door Latch

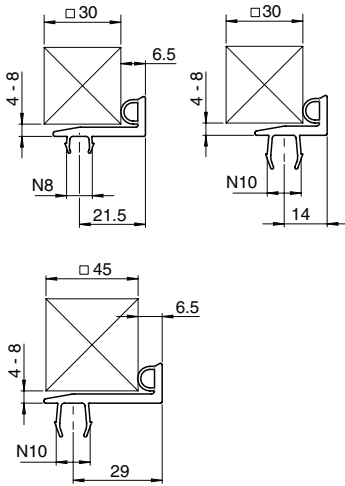
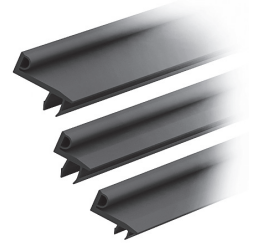


Model	Zinc die-cast
Description	For easy closing of doors and flaps, with spring-loaded clamp; including separate slot fixation strips
Material	Housing: Zinc die-cast Pull handle: Plastic PA, black Bolt: Stainless steel
Pack Quantity	10 pieces

Door Latch	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
		120.0	093082

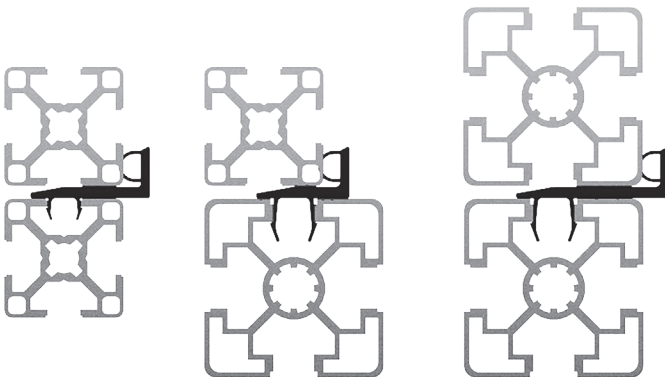


Sealing Strip

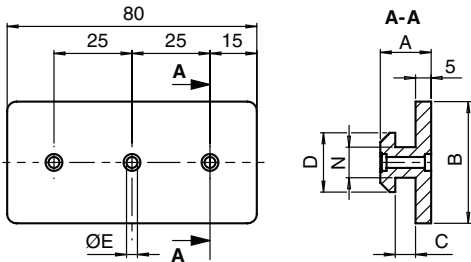
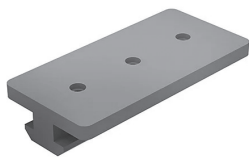


Model	Plastic PVC + TPE, Slot 8, Slot 10
Description	To close doors sealed, flush, and non see through; with elastic sealing lip, covers the door gaps
Material	Plastic PVC + TPE
Color	Signal Gray ≈ RAL 7004
Pack Quantity	20 meters (10 pieces at 2m)
Tip	Please note: You are ordering in meters!

Sealing Strip	T-slot (N)	Weight (g)	Part Number (Pack Qty = 2m x10)
For profile combination 30/30	8	140.0	092257
For profile combination 45/30	10	134.0	092258
For profile combination 45/45	10	180.0	092259

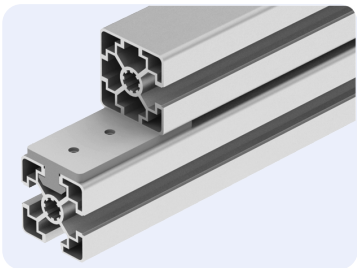


Profile Slider Flat

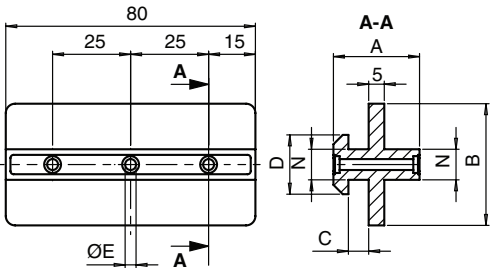
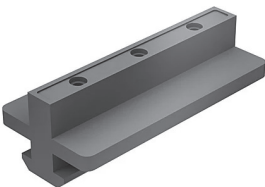


Model	Slot 6, 8, 10
Description	Ideal for applications where two profiles need to be moved manually along the same plane. Wear resistant, suitable for sliding drawers and lifting doors.
Material	Plastic POM
Fastening	With sheet-metal screws
Pack Quantity	10 pieces

Profile Slider Flat	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	T-Slot (N)	Weight (g)	Part Number (Pack Qty = 10)
	9.8	17.0	2.3	11.5	2.8	6	13.0	093SM06S02
	11.5	26.0	3.0	15.0	2.8	8	22.0	093SM08S02
	16.3	39.0	6.5	19.0	3.5	10	37.0	093SM10S02



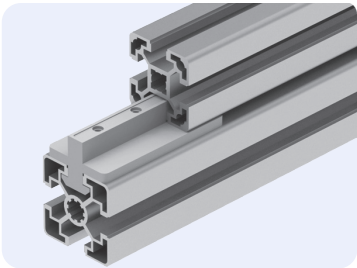
Profile Slider Center Ridge 10



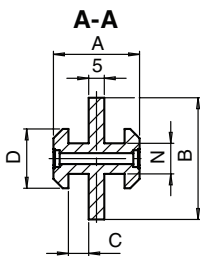
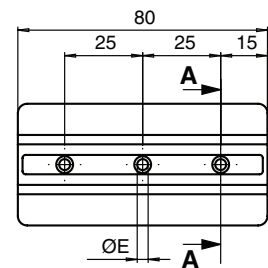
Model	Slot 10
Description	Ideal for applications where two profiles need to be moved manually along the same plane. Wear resistant, suitable for sliding drawers and lifting doors.
Material	Plastic POM
Fastening	With sheet-metal screws
Pack Quantity	10 pieces

6

Profile Slider Center Ridge	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	T-Slot (N)	Weight (g)	Part Number (Pack Qty = 10)
	27.6	39.0	6.5	19.0	3.5	10	48.0	093SM10S01

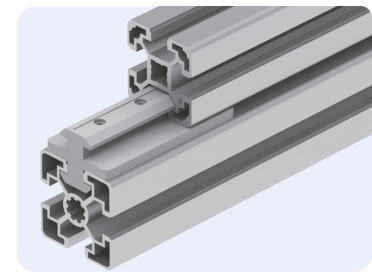


Profile Slider Center Slot

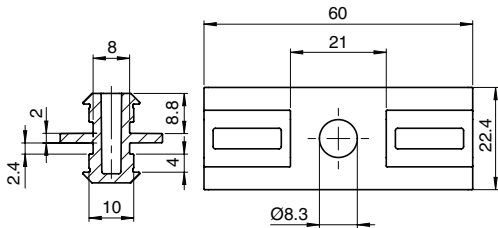
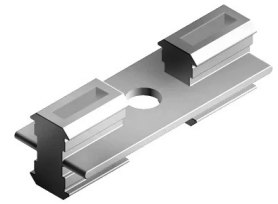


Model	Slot 8, 10
Description	Ideal for applications where two profiles need to be moved manually along the same plane. Wear resistant, suitable for sliding drawers and lifting doors.
Material	Plastic POM
Fastening	With sheet-metal screws
Pack Quantity	10 pieces

Profile Slider Center Slot	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	T-Slot (N)	Weight (g)	Part Number (Pack Qty = 10)
	18.0	26.0	3.0	15.0	2.8	8	29.0	093SM08
	27.6	39.0	6.5	19.0	3.5	10	53.0	093SM10



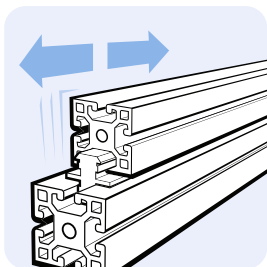
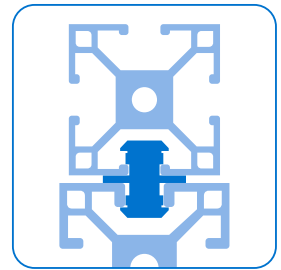
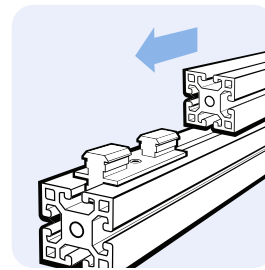
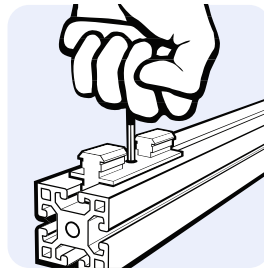
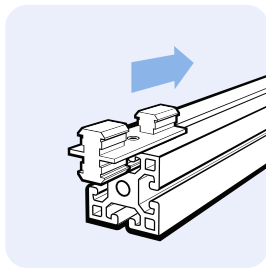
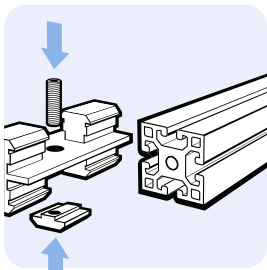
Profile Glide 8+10



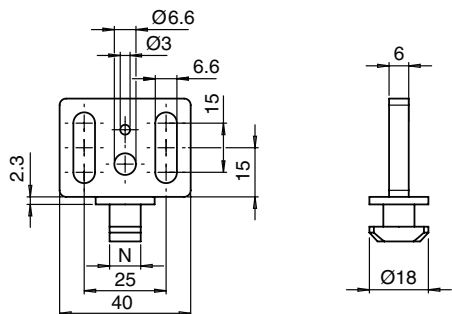
Model	Slot 8 + 10
Description	Ideal for applications where two profiles need to be moved manually along the same plane. Wear resistant, suitable for sliding drawers and lifting doors.
Material	Plastic POM
Color	Natural
Fastening	Slot 8 with DIN 914 (ISO 4028), M8 × 12 Slot 10 with DIN 914 (ISO 4028), M8 × 20
Pack Quantity	10 pieces

6

Profile Glide	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
	8 / 10	9.0	093SM0810

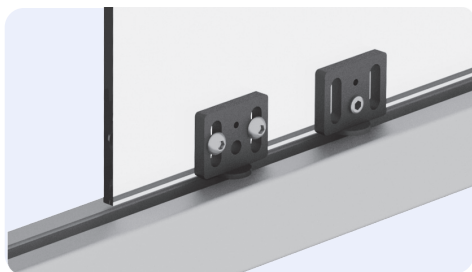


Panel Slider

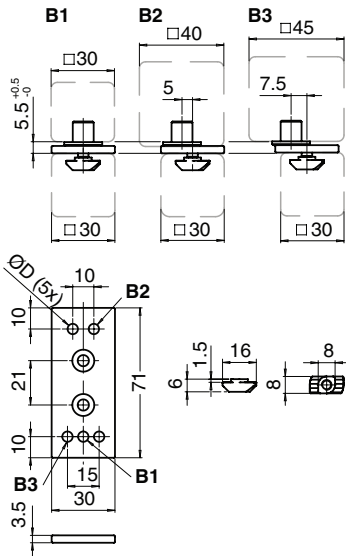
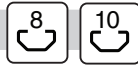


Model	Slot 10
Description	Provide smooth T-slot gliding for panels. Use to create horizontal and vertically mounted doors and access panels.
Material	Plastic POM
Color	Black
Pack Quantity	10 pieces

Panel Slider	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
	10	9.0	093SN10

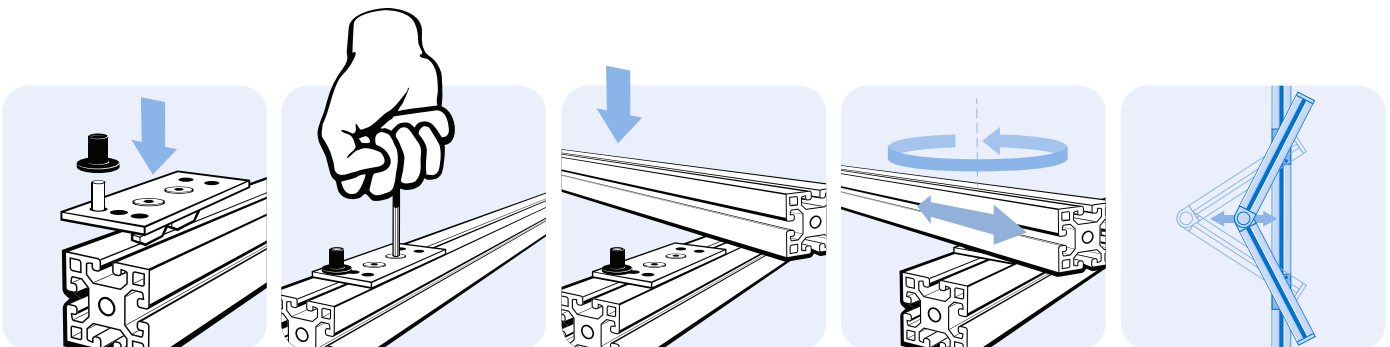


Folding Door Element Set

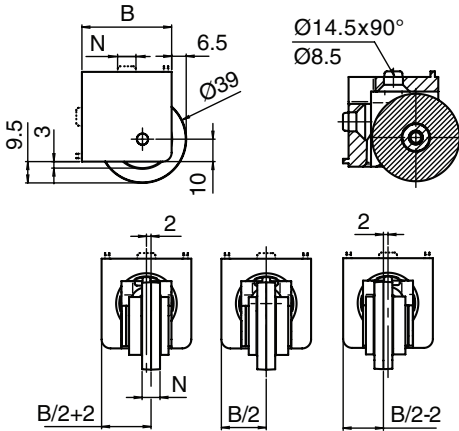


Model	Aluminum
Description	Use to assemble folding doors that require simultaneous turning and sliding movement; guide bushing can be inserted in different positions for slot 8 and 10; high quality design
Material	Folding door element: Aluminum Screws: Steel T-nuts: Steel Pin: Steel Guide bushings: POM
Color	Guide bushings: Black
Set	1 folding door element, 2 screws DIN 7991 - M5 x 10, 2 T-nuts - slot 8 - M5, 1 pin ISO 2338 - D5 x 14, 1 guide bushing - slot 8, 1 guide bushing - slot 10
Pack Quantity	10 pieces

Folding Door Element Set	ØD (mm)	Weight (g)	Part Number (Pack Qty = 10)
	4.9	147.9	093FDE30N0810

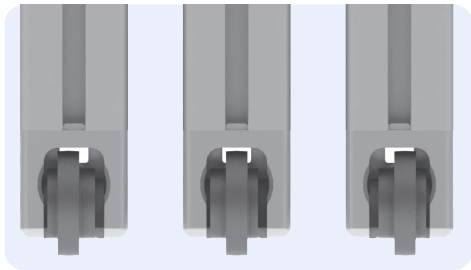


Sliding Door Guide Set

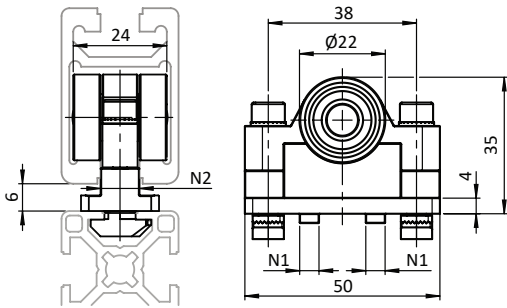
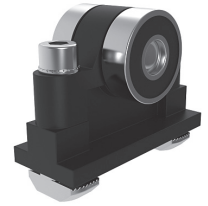


Model	Slot 8 - 10
Description	To connect two aluminum profiles at right angles and to guide lifting or sliding doors in the slot of an aluminum profile, with ball bearing; spacers can be changed: for a 2 mm distance between door and fixed profile or a 2 or 4 mm distance between two doors
Material	Casing: Aluminum die-cast Roller: Plastic PA, glass ball reinforced Spacer: Plastic PA, glass fiber reinforced
Color	Roller: Black Spacer: Natural
Set	1 casing, 1 roller, 1 screw as axle, 3 spacers
Pack Quantity	10 pieces

Sliding Door Guide Set	B (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
	40	8	137.0	093095
	40	10	175.0	093097
	45	10	230.0	093098

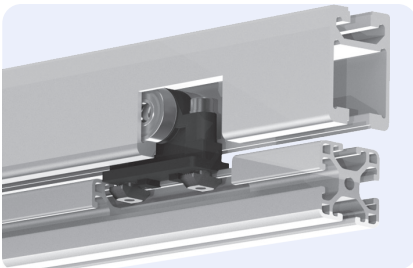


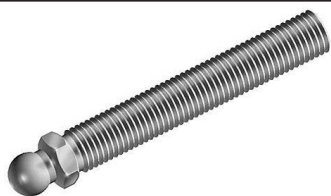
Trolley Set



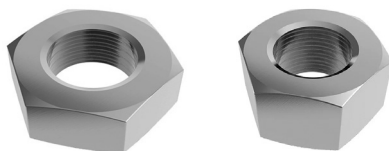
Model	Pre-assembled
Description	For moving suspended sliding doors built of slot 8 profiles in slot 10 rail profile
Material	Trolley: Plastic PA Bearing: Steel Straight pin: Stainless steel Mounting material: Steel
Color	Trolley: Black
Surface	Bearing: Chrome plated (RoHS compliant) Cylinder pin: Plain Mounting material: Zinc plated
Pack Quantity	1 set
Set	1 trolley with 2 mounted bearings 1 cylinder pin DIN 7 - Ø 8 × 20, 2 screws DIN 912 - M5 × 30, 2 washers 5-FSt, 2 T-nuts - slot 8 - M5

Trolley Set	Weight (g)	Part Number (Pack Qty = 1 Set)
	71.0	093101

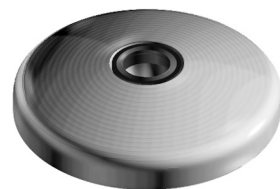




Threaded Rods for Swivel Feet
Page 181



Nuts for Threaded Feet
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Bases for Swivel Feet
Page 184



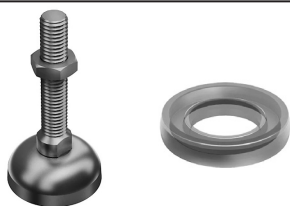
Anti-Slip Plates
Page 188



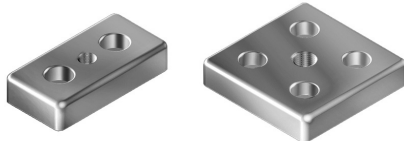
Extended Bases for Swivel Feet
Page 189



Threaded Sleeve
Page 191



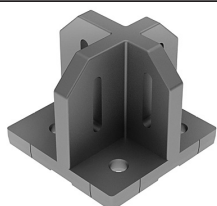
Pivot Feet and Anti-Slip Plates
Page 192



Profile Base Plate
Page 194



Foot Plate
Page 195



Foot Console
Page 196



Double T-slot Nut for Floor Mount Base
Page 198



Swivel & Fixed Casters
Page 199



Foundation Brackets
Page 204



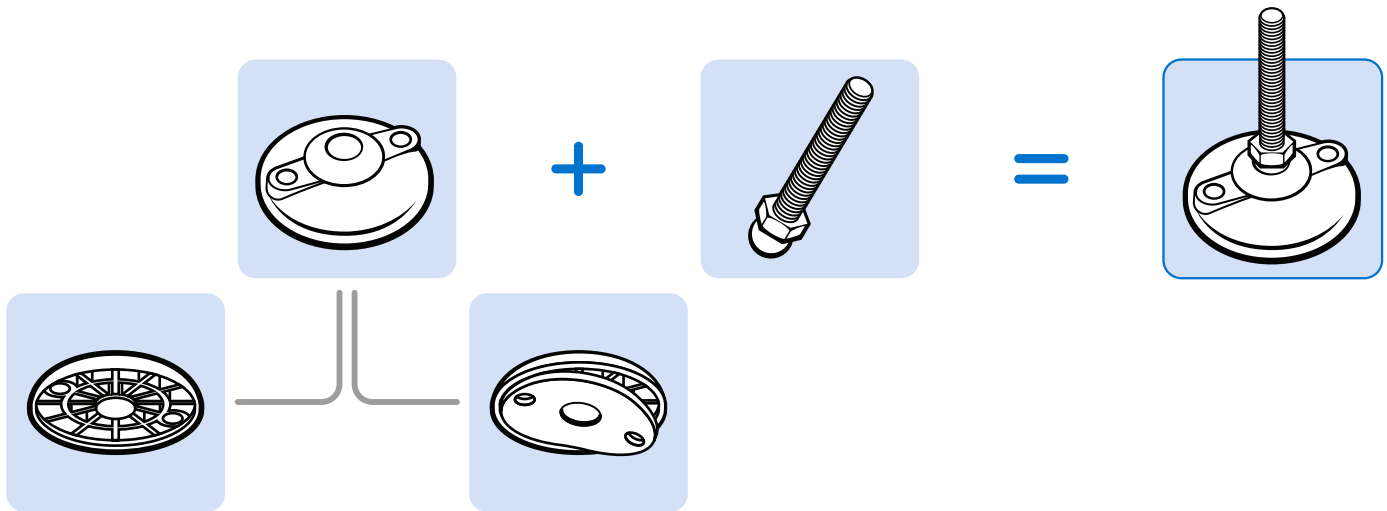
Floor Brackets
Page 206

Leveling Feet - The Modular System

Our leveling feet can be found on many installations and machines around the world as they are not only of high quality, but also offer great flexibility: Thanks to our modular system many variations are at your disposal.

Your made-to-measure leveling foot.

Creating your own leveling foot is easy: choose a base, decide whether you want an anti-slip plate or not, add a threaded rod and your made-to-measure leveling foot is ready.



7

Stainless Steel



Our entire range of leveling feet is also available in stainless steel, making them suitable for use in the food and medical industry. These leveling feet are not just resistant against many chemicals and environmental influences, they also look spectacular because of the material used.

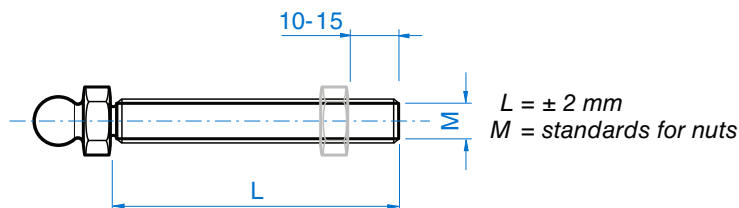


Leveling Feet - The Modular System

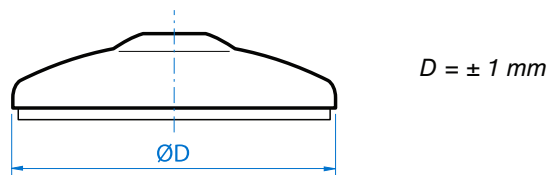
Dimensional Tolerances for Leveling Feet

The following dimensional tolerances are valid for the products in this catalog. Please contact us if you need lower tolerances in special cases.

Threaded Rods



Base Plates



Load Bearing Tests

Our leveling feet, hinges and threaded bushings were tested for mechanical load. The following test procedures were applied:

Leveling Feet

Vertical load of the threaded rod over an industry standard nut. After an initial load of approximately 1,500N, the vertical load (perpendicular) was increased slowly and steadily to the load that made the complete unit cave in approximately $1.5 \pm 0.5 \text{ mm}$. The tests were performed on 3 samples each. The bases were put on steel plates. No horizontal force was induced.

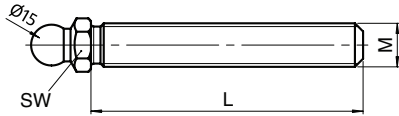
Thread Bushings

Vertical load of the threaded bush and the threaded insert until breaking. The tests were performed on 3 samples each.

Please note that influences from dynamic loads, temperatures, modifications etc. were not taken into account in the above mentioned tests. These influences should be taken into account in the practical application of the products and therefore one should take the load bearing capacities indicated in the catalog as a guideline only and own tests under practical application conditions should not be eliminated.

All information is just for reference and does not pose a legally binding agreement about the product properties.

Stainless Steel Threaded Rod For Swivel Feet

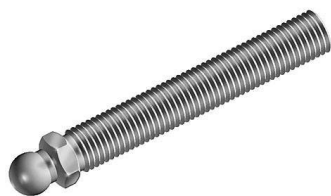


Model	Stainless steel
Description	Threaded rod for swiveling leveling feet
Material	Stainless steel SS304
Ball Joint	Swiveling range $\pm 20^\circ$
Pack Quantity	10 pieces

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Threaded Rod for Swivel Feet	M x L (mm)	SW (mm)	Max. Load (kg)	Weight (g)	Part Number (Pack Qty = 10)
Stainless steel	M8 x 40	14	350	36.0	098DM08040E
	M12 x 66	14	770	70.0	098DM12066E
	M12 x 125	14	770	112.0	098DM12125E
	M12 x 150	14	770	130.0	098DM12150E
	M12 x 200	14	770		098DM12200E
	M16 x 66	17	1450	112.0	098DM16066E
	M16 x 125	17	1450	190.0	098DM16125E
	M16 x 150	17	1450	222.0	098DM16150E
	M16 x 200	17	1450	285.0	098DM16200E

Threaded Rod For Swivel Feet

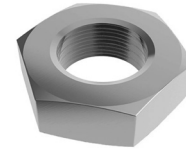


Model	Steel
Description	Threaded rod for swiveling leveling feet
Material	Steel, zinc plated
Ball Joint	Swiveling range $\pm 20^\circ$
Pack Quantity	10 pieces

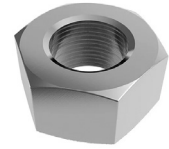
7

Threaded Rod for Swivel Feet	M x L (mm)	SW (mm)	Max. Load (kg)	Weight (g)	Part Number (Pack Qty = 10)
Steel, zinc plated	M8 x 40	14	350	36.0	098DM08040M
	M12 x 66	14	770	70.0	098DM12066M
	M12 x 125	14	770	112.0	098DM12125M
	M12 x 150	14	770	130.0	098DM12150M
	M12 x 200	14	770		098DM12200M
	M16 x 66	17	1450	112.0	098DM16066M
	M16 x 125	17	1450	190.0	098DM16125M
	M16 x 150	17	1450	222.0	098DM16150M
	M16 x 200	17	1450	285.0	098DM16200M

Nut For Threaded Rod

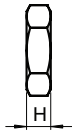


DIN 439



DIN 934

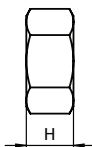
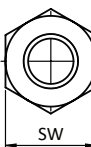
NUT DIN 439 FOR THREADED ROD



Model	Steel / stainless steel
Description	Flat jam nuts DIN 439 (ISO 4035) form B for threaded rods
Material	Steel, zinc plated / stainless steel A2, plain
Pack Quantity	100 pieces

Nut DIN 439 for Threaded Rod	H (mm)	SW (mm)	Thread	Weight (g)	Part Number (Pack Qty = 100)
Steel, zinc plated	4.0	13	M8	3.0	4DIN439BM8M
	6.0	19	M12	9.0	4DIN439BM12M
	8.0	24	M16	18.0	4DIN439BM16M
Stainless steel	4.0	13	M8	3.0	4DIN439BM8E
	6.0	19	M12	9.0	4DIN439BM12E
	8.0	24	M16	18.0	4DIN439BM16E

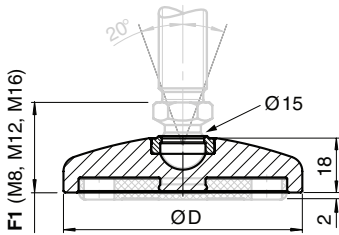
NUT DIN 934 FOR THREADED ROD



Model	Steel / stainless steel
Description	Jam nuts DIN 934 (ISO 4032) for threaded rods
Material	Steel, zinc plated / stainless steel A2, plain
Pack Quantity	100 pieces

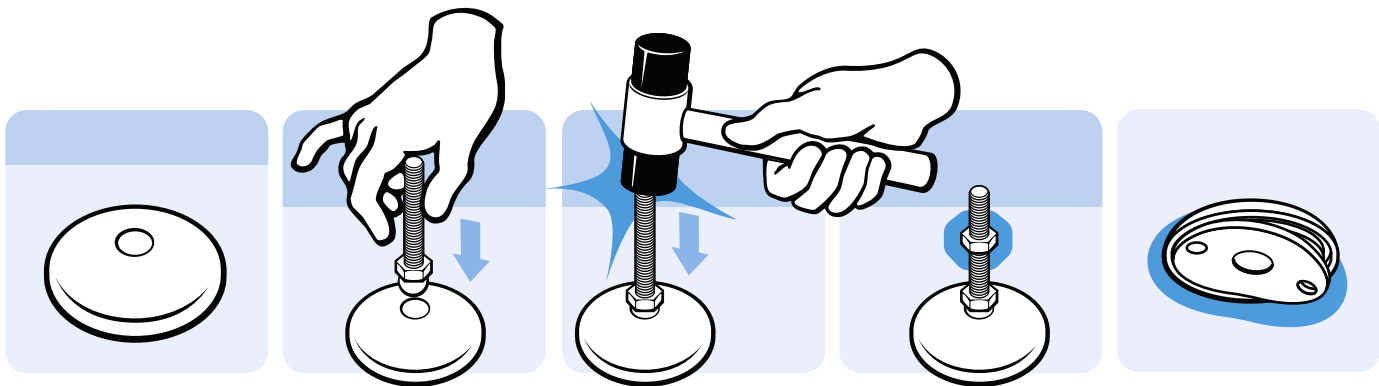
Nut DIN 934 for Threaded Rod	H (mm)	SW (mm)	Thread	Weight (g)	Part Number (Pack Qty = 10)
Steel, zinc plated	6.8	13	M8	5.0	4DIN934M8M
	10.8	18	M12	15.0	4DIN934M12M
	14.8	24	M16	29.2	4DIN934M16M
Stainless steel	6.8	13	M8	5.0	4DIN934M8E
	10.8	18	M12	15.0	4DIN934M12E
	14.8	24	M16	29.2	4DIN934M16E

Stainless Steel Base For Swivel Feet

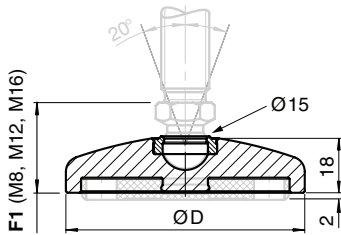


Model	Stainless steel, without bolt-down holes
Description	A swiveling leveling foot for strong positioning on uneven floors
Material	Stainless steel SS303
Pack Quantity	10 pieces
Tip	Compatible threaded rod see page 181, 182 Compatible nut see page 183 Compatible anti-slip plate see page 188

Base	Stainless Steel Base for Swivel Feet	D (mm)	F1 (mm)	Max Load (kg)	Weight (g)	Part Number (Pack Qty = 10)
30	Without anti-slip plate	29	29.5	2000	62.0	098D030E
40		39	29.5	3000	99.0	098D040E
45		44	29.5	3000	123.0	098D045E
60		59	29.5	3500	218.0	098D060E
80		79	29.5	3500	380.0	098D080E
30	With anti-slip plate	29	29.5	2000	64.0	098D030EG
40		39	29.5	3000	103.0	098D040EG
45		44	29.5	3000	129.0	098D045EG
60		59	29.5	3500	230.0	098D060EG
80		79	29.5	3500	403.0	098D080EG



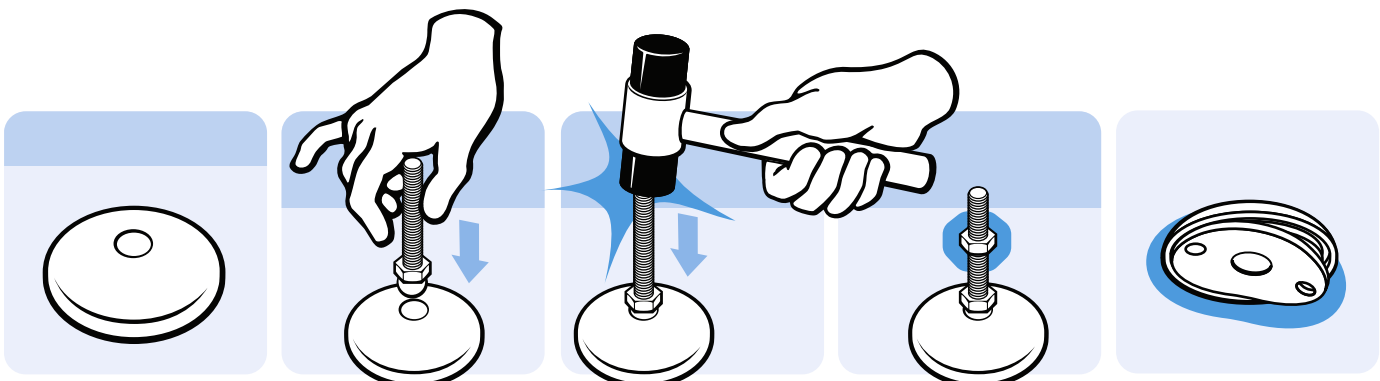
Die-cast Base For Swivel Feet



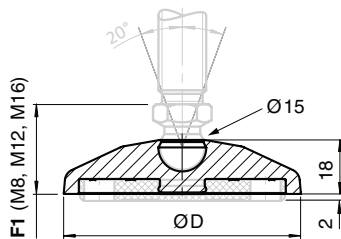
Model	Zinc die-cast, without bolt-down holes
Description	A swiveling leveling foot for strong positioning on uneven floors
Material	Zinc die-cast
Pack Quantity	10 pieces
Tip	Compatible threaded rod see page 181, 182 Compatible nut see page 183 Compatible anti-slip plate see page 188

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Base	Die-cast Base for Swivel Feet	D (mm)	F1 (mm)	Max Load (kg)	Weight (g)	Part Number (Pack Qty = 10)
30	Without anti-slip plate	29	29.5	2000	48.0	098D030ZS
40		39	29.5	3000	70.0	098D040ZS
45		44	29.5	3000	90.0	098D045ZS
60		59	29.5	3000	160.0	098D060ZS
80		79	29.5	3000	260.0	098D080ZS
30	With anti-slip plate	29	29.5	2000	50.0	098D030ZSG
40		39	29.5	3000	74.0	098D040ZSG
45		44	29.5	3000	96.0	098D045ZSG
60		59	29.5	3000	172.0	098D060ZSG
80		79	29.5	3000	283.0	098D080ZSG

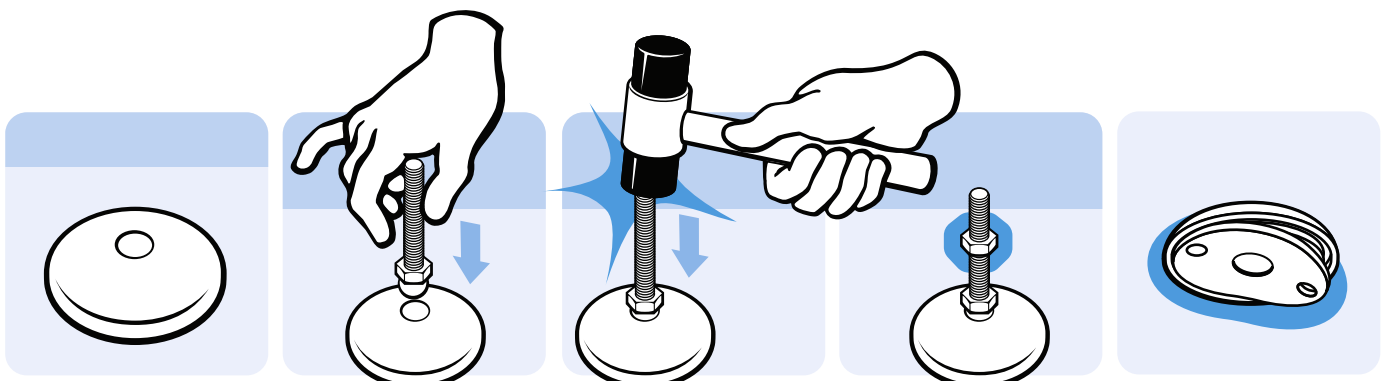


Plastic Base For Swivel Feet

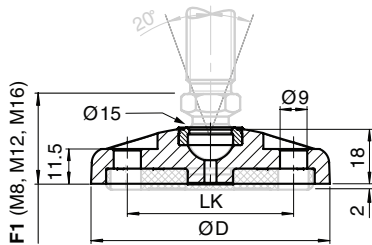


Model	Plastic PA, without bolt-down holes
Description	A swiveling leveling foot for a strong positioning on uneven floors
Material	Plastic PA, glass ball reinforced
Color	Black
Pack Quantity	10 pieces
Tip	Compatible threaded rod see page 181, 182 Compatible nut see page 183, Compatible anti-slip plate see page 188

Base	Plastic Base for Swivel Feet	D (mm)	F1 (mm)	Max Load (kg)	Weight (g)	Part Number (Pack Qty = 10)
30	Without anti-slip plate	29	29.5	500	8.0	098D030K
40		39	29.5	900	13.0	098D040K
45		44	29.5	900	15.0	098D045K
60		59	29.5	900	22.0	098D060K
80		79	29.5	900	44.0	098D080K
30	With anti-slip plate	29	29.5	500	10.0	098D030KG
40		39	29.5	900	17.0	098D040KG
45		44	29.5	900	21.0	098D045KG
60		59	29.5	900	34.0	098D060KG
80		79	29.5	900	67.0	098D080KG



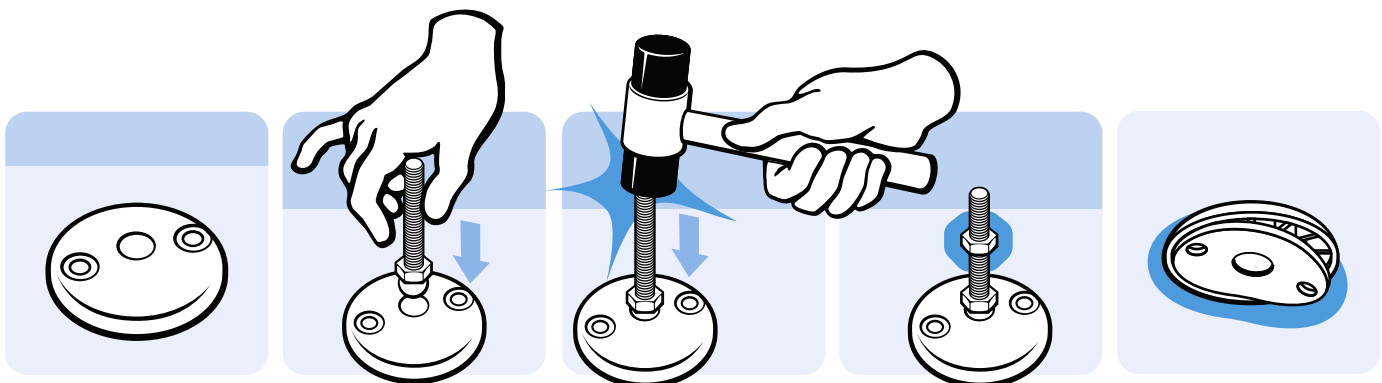
Die-cast Base For Swivel Feet



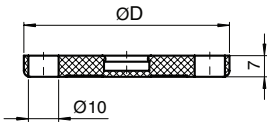
Model	Zinc die-cast, with bolt-down holes
Description	A swiveling leveling foot which can be fixed to the floor
Material	Zinc die-cast
Pack Quantity	10 pieces
Tip	Compatible threaded rod see page 181, 182 Compatible nut see page 183, Compatible anti-slip plate see page 188

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Base	Die-Cast Base for Swivel Feet	D (mm)	F1 (mm)	LK (mm)	Max Load (kg)	Weight (g)	Part Number (Pack Qty = 10)
60	Without anti-slip plate	59	29.5	40	3000	157.0	098D060ZBS
80		79	29.5	55	3000	260.0	098D080ZBS
60	With anti-slip plate	59	29.5	40	3000	169.0	098D060ZBSG
80		79	29.5	55	3000	283.0	098D080ZBSG



Anti-Slip Plate

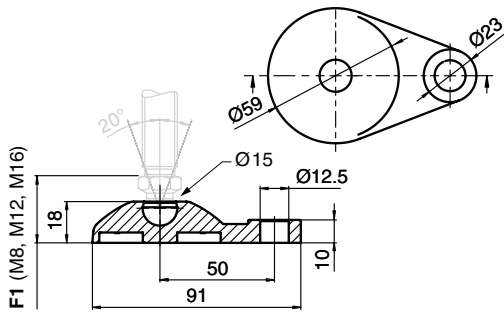


Model	For swivel feet
Description	Prevents movement of leveling feet on slippery surfaces and absorbs some vibration
Material	Thermoplastic elastomer, ≈70 Shore A
Specification	Water and oil resistant (up to 60° C)
Pack Quantity	10 pieces
Tip	*also for bases with bolt down holes

Anti-slip Plate	D (mm)	For Base	Weight (g)	Part Number (Pack Qty = 10)
	20	30	2.0	098DG030
	30	40	4.0	098DG040
With central Ø 8.5 mm bore	30	40	4.0	098DG040B
	35	45	6.0	098DG045
	50	60	12.0	098DG060
	50	60*	12.0	098DG060B
	68	80	23.0	098DG080
	68	80*	23.0	098DG080B



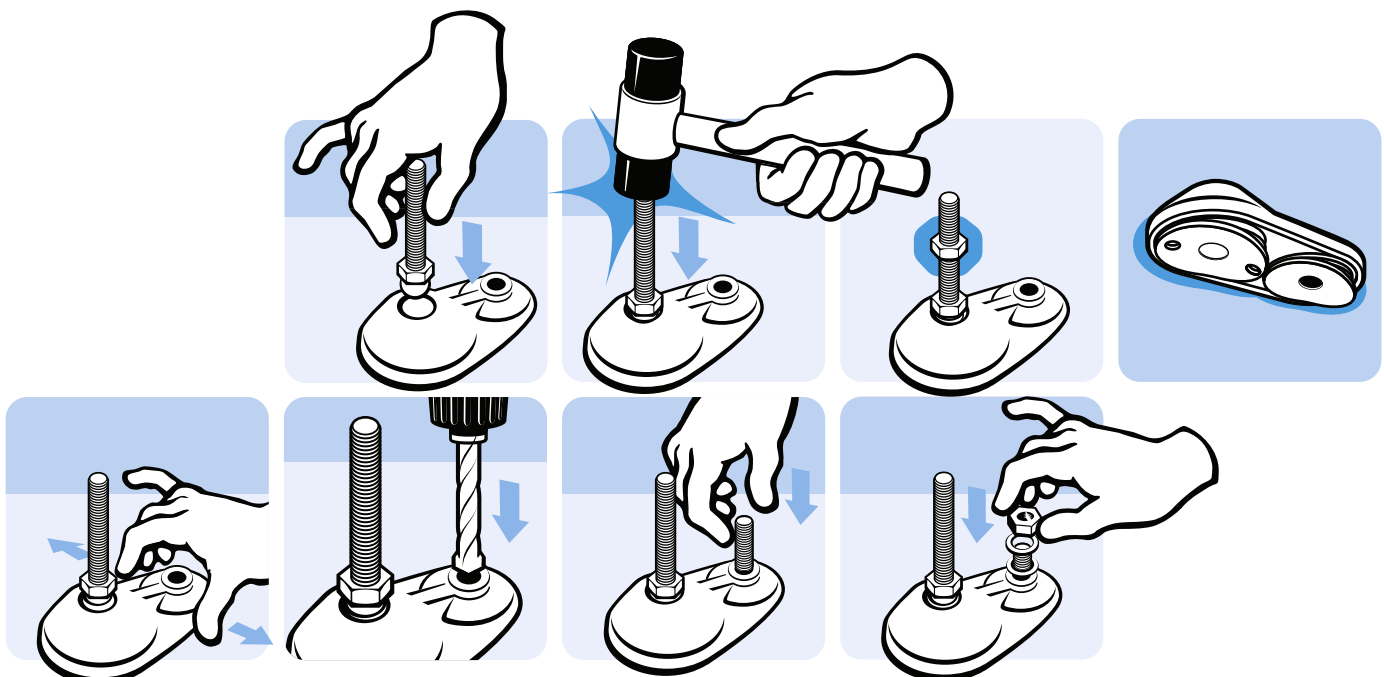
Extended Base 60 For Swivel Feet



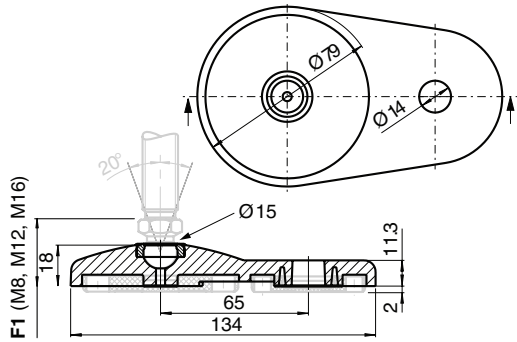
Model	Plastic PA
Description	Extended swiveling leveling foot which can be fixed to the floor
Material	Plastic PA, glass ball reinforced
Color	Black
Pack Quantity	10 pieces
Tip	Compatible threaded rod see page 181, 182 Compatible nut see page 183, Compatible anti-slip plate see page 188

7

Base	Extended Base 60 for Swivel Feet	F1 (mm)	Max Load (kg)	Weight (g)	Part Number (Pack Qty = 10)
60	Without anti-slip plate	29.5	900.0	24.0	098DA060K

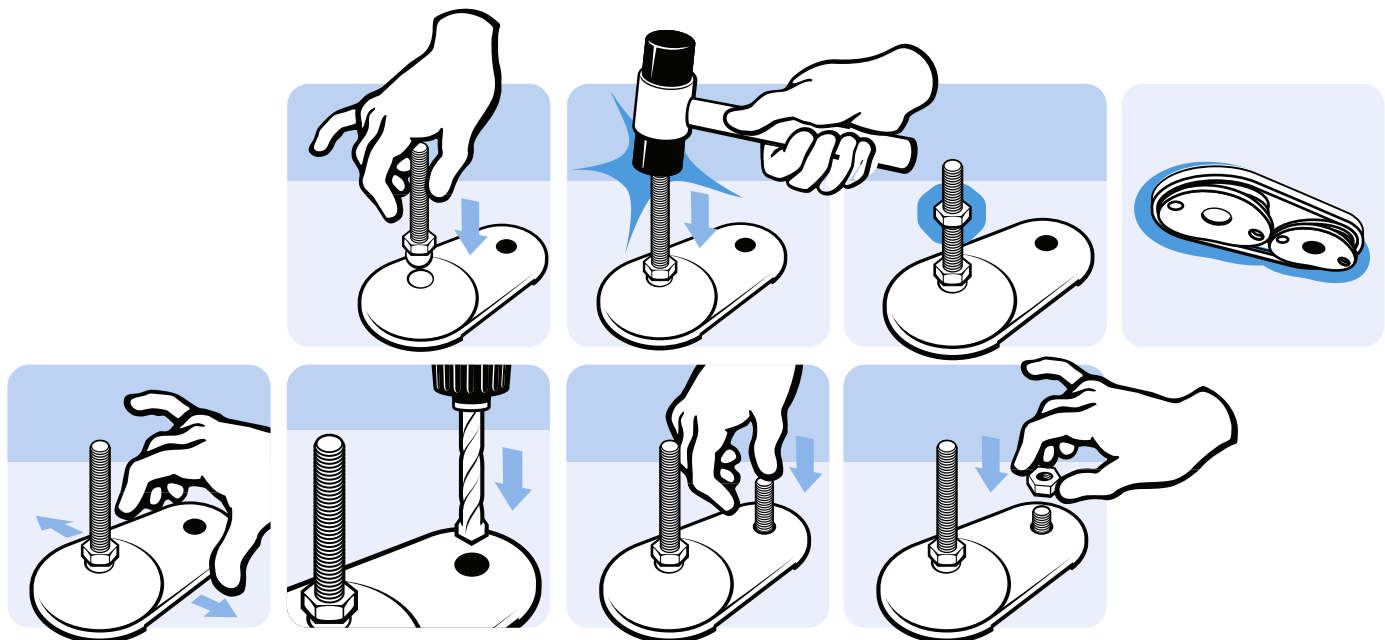


Extended Base 80 For Swivel Feet

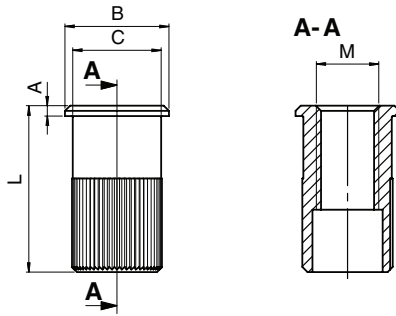


Model	Zinc die-cast
Description	Extended swiveling leveling foot which can be fixed to the floor
Material	Zinc die-cast
Pack Quantity	10 pieces
Tip	Compatible threaded rod see page 181, 182 Compatible nut see page 183 Compatible anti-slip plate see page 188

Base	Extended Base 80 for Swivel Feet,	F1 (mm)	Max Load (kg)	Weight (g)	Part Number (Pack Qty = 10)
80	Without anti-slip plate	29.5	3000	399.0	098DA080ZS
80	With anti-slip plate	29.5	3000	434.0	098DA080ZSG



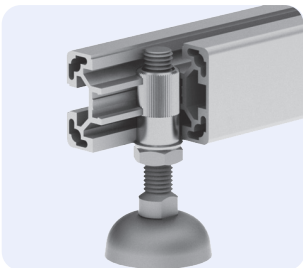
Threaded Sleeve



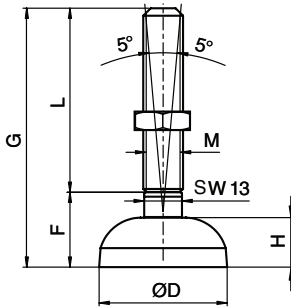
Model	Steel
Description	To fit leveling feet to profiles at right angles; a hole must be drilled with Ø 17 mm through the profile to allow application
Material	Steel
Pack Quantity	50 pieces

7

Threaded Sleeve	A (mm)	L (mm)	ØB (mm)	ØC (mm)	M Size	Weight (g)	Part Number (Pack Qty = 50)
	2.0	32.0	20.0	17.0	M12	30.0	340ME201

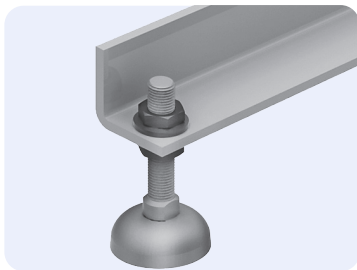


Pivot Foot - Bell

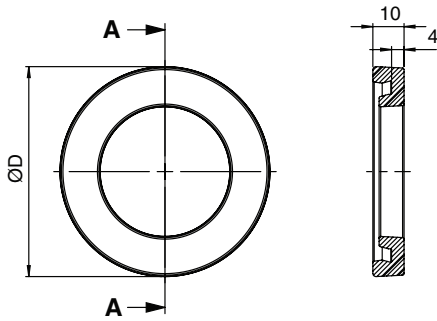


Model	Steel, zinc plated
Description	A leveling foot for slightly uneven floors,  electrostatically discharging, with nut DIN 439 (ISO 4035) form B; factory assembled
Material	Base: Steel, zinc plated Threaded rod: Steel, zinc plated Nut: Steel, zinc plated
Pack Quantity	10 pieces
Tip	Compatible anti-slip plate see page 193

Base	D (mm)	F (mm)	H (mm)	L (mm)	M x G (mm)	Max. Load (kg)	Weight (g)	Part Number (Pack Qty = 10)
45	44	25.7	17.0	59.3	M12 x 85	1000	151.0	9AB045M12085MN
45	44	25.7	17.0	134.3	M12 x 160	1000	190.0	9AB045M12160MN
45	44	27.0	17.0	118.0	M16 x 145	1000	273.0	9AB045M16145MN
60	58	28.5	20.0	59.5	M12 x 88	1000	186.0	9AB060M12085MN
90	90	29.5	20.0	55.5	M16 x 85	2000	423.0	9AB090M16085MN
90	90	29.5	20.0	115.5	M16 x 145	2000	494.0	9AB090M16145MN
90	90	29.5	20.0	170.5	M16 x 200	2000	567.0	9AB090M16200MN



Anti-slip Plate

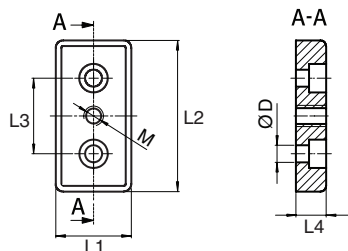
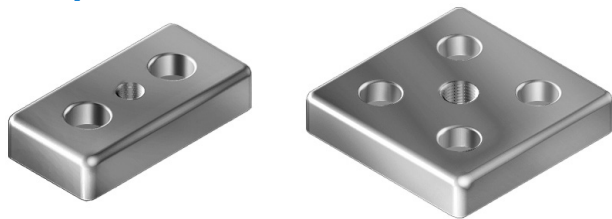


Model	For pivot feet – bell
Description	Prevents movement of leveling feet on slippery surfaces and absorbs some vibration
Material	Polyurethane, ≈70 - 80 Shore A
Color	Natural opaque, black
Specifications	Water and oil resistant (up to 60 °C)
Pack Quantity	10 pieces

7

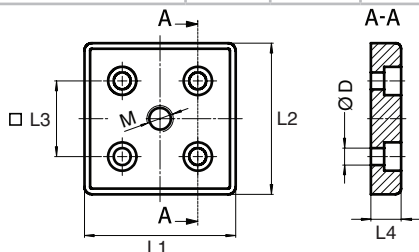
Anti-slip Plate	D (mm)	For Base	Weight (g)	Part Number (Pack Qty = 10)
Natural opaque	52.0	45	13.0	098ABG045
	67.3	60	20.0	098ABG060
	97.3	90	29.0	098ABG090
 electrostatically discharging, black	52.0	45	13.0	098ABG045S01
	67.3	60	20.5	098ABG060S01
	97.3	90	30.0	098ABG090S01

Transport and Base Plate

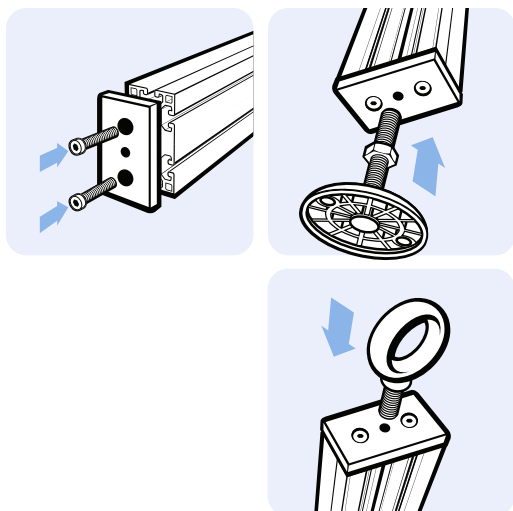


Model	Zinc Die-Cast
Description	To mount leveling feet, rollers, hooks or similar components; screw joint to the face of the profile
Material	Zinc Die-Cast
Pack Quantity	10 pieces
Note	Does Not Include Fasteners - See Fastener Chart Below:

Rectangle Transport and Base Plate	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	M (mm)	ØD (mm)	Fastener Required	Weight (g)	Part Number (Pack Qty = 10)
Plain 30 x 60	30	60	30	12	M12	9 (M8)	2 - F1	96.0	093T30601208R
Plain 40 x 80	40	80	40	16	M12	14.5 (M12)	2 - F2	188.0	093T40801212R
Plain 45 x 90	45	90	45	16	M16	14.5 (M12)	2 - F2	247.0	093T45901612R

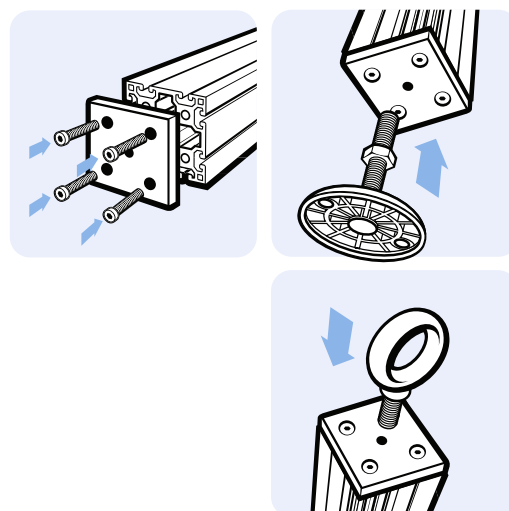


Square Transport and Base Plate	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	M (mm)	ØD (mm)	Fastener Required	Weight (g)	Part Number (Pack Qty = 10)
Plain 60 x 60	60	60	30	12	M12	9 (M8)	4 - F1	177.0	093T60601208R
Plain 80 x 80	80	80	40	16	M12	14.5 (M12)	4 - F2	380.0	093T80801212R
Plain 90 x 90	90	90	45	16	M16	14.5 (M12)	4 - F2	471.0	093T90901612R
Plain 100 x 100	100	100	50	16	M16	14.5 (M12)	4 - F2	527.0	093T1001001612R

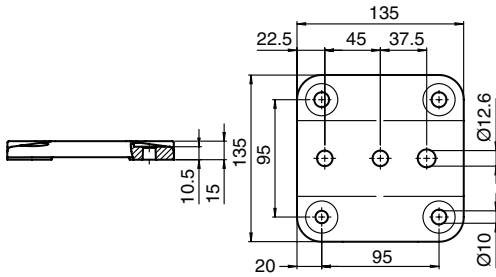


Fastener Chart

F1	M8x20 DIN 7984
F2	M12x20 DIN 7984



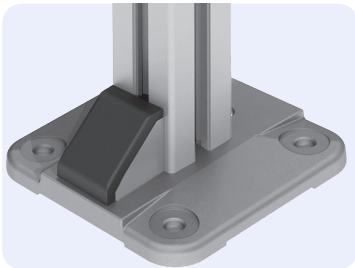
Foot Plate 45/60/90 - 135



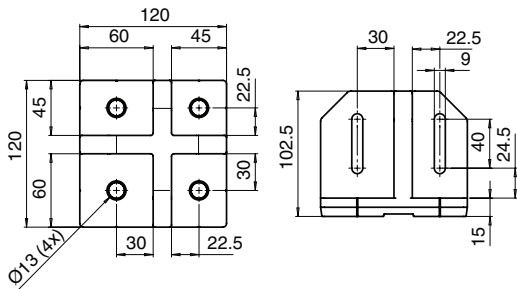
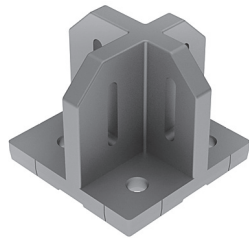
Description	To mount aluminum profiles as posts
Material	Die-cast aluminum
Surface	Plain
Pack Quantity	10 pieces
Tip	Compatible self forming screw see page 102, Compatible connecting screws see page 101

7

Foot Plate 45/60/90 - 135	Weight (g)	Part Number (Pack Qty = 10)
	348.0	098G4560X135A

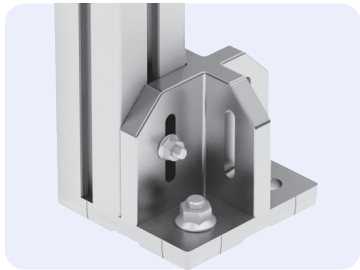


Foot Console 45/60 - 120

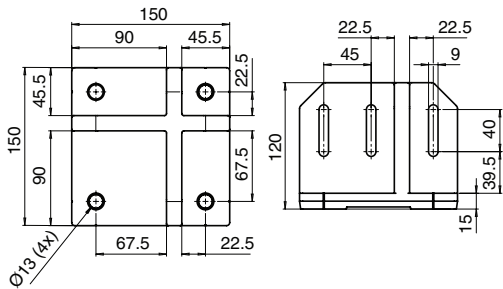
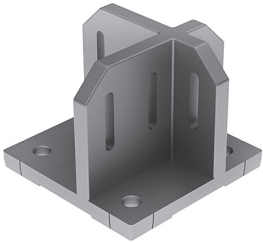


Model	Aluminum die-cast
Description	To mount aluminum profiles as posts
Material	Aluminum die-cast
Pack Quantity	10 pieces
Tip	Compatible T-bolt M8 × 30 see page 132, 133; Compatible flange nut see page 134

Foot Console	Weight (g)	Part Number (Pack Qty = 10)
	1083.0	098G4560X120A



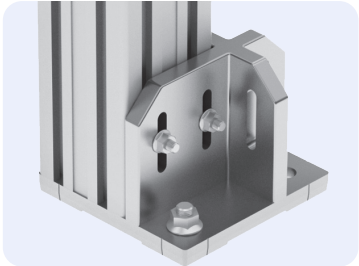
Foot Console 45/90 - 150



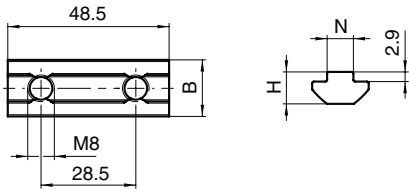
Model	Aluminum die-cast
Description	To mount aluminum profiles as posts
Material	Aluminum die-cast
Pack Quantity	10 pieces
Tip	Compatible T-bolt M8 × 30 see page 132, 133; Compatible flange nut see page 134

7

Foot Console	Weight (g)	Part Number (Pack Qty = 10)
	1719.0	098G4590X150A



Double T-slot Nut For Floor Mount Base



Model	Self-aligning, Steel
Description	Double T-slot nut
Material	Steel, zinc plated
Pack Quantity	100 pieces

7

Double T-slot Nut	B (mm)	H (mm)	N	Weight (g)	Part Number (Pack Qty = 100)
Slot 10	19.0	10.6	9.8	49.5	096030S41

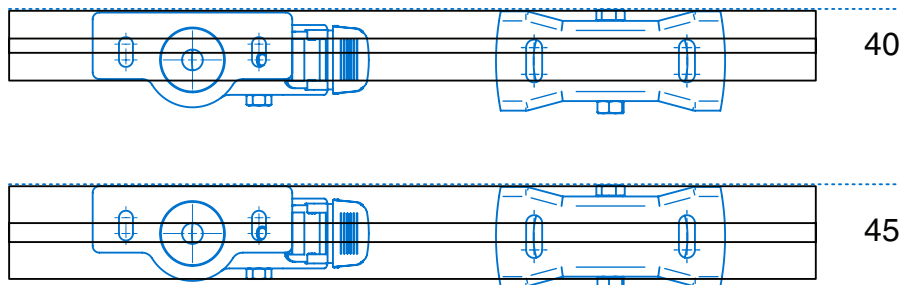
Swivel and Fixed Casters

- Three different wheel diameters / mounting heights
- Two different mounting methods
- Four different materials, three of them also as ESD version
- Housing and adapter plates are aluminum color powder coated, thus matching with anodized aluminum surfaces
- All swivel rollers are delivered with double-brake. The locking prevents turning of the wheel as well as swiveling
- Fixed casters are without brake
- Mounting either with adapter plates or with integrated mounting plates
- Positive-locking anti-twist attachment without lateral overlap to aluminum profiles of modular dimensions 40 mm and 45 mm

In cooperation with market leader Bickel, we designed these swivel and fixed casters especially for use with aluminum profile systems. All housings and adapter plates are aluminum color powder coated and match perfectly with anodized aluminum profiles.

We offer casters in conventional design with adapter plates as well as casters with integrated mounting plate. Thereby a fast attachment to aluminum profiles, anti-twist and without lateral overlap, is made possible.

Adapter Plates



Adapter plates are equipped with oblong holes. Additionally, the adapter plate of the swivel caster has an asymmetrical design.

7

Caster Wheels



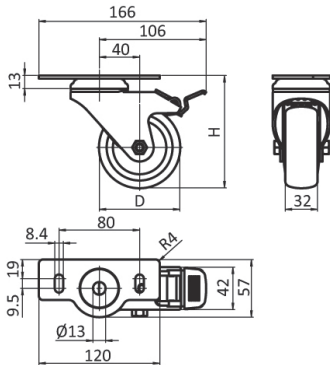
	TPE	TPE	TPU	TPU	Solid Rubber	Solid Rubber	PA
	Floor-protecting		Pliable		High deformation elasticity		Chemical resistant*
Track marks	No		No		Yes		No
Shore hardness	85° Shore A		94° Shore A		80° Shore A		70° Shore D
electrostatically discharging							
Color of wheel body	Gray	Black	Gray	Black	Gray	Black	Black
Color of wheel tread	Gray	Gray	Black	Black	Gray	Black	Black
Rolling resistance	★★★★		★★★★		★★★		★★★★★
Rolling noise	★★★		★★★		★★★★★		★★
Floor protection	★★★		★★★		★★★★★		★★

*Resistance to petroleum and alcohol based solvents

Recommended Mounting Material

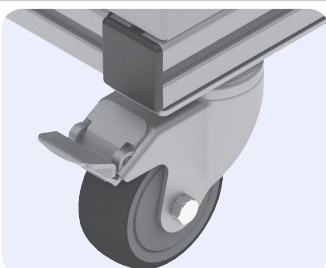
Mounting Location	Profile Size	Hardware Recommended
On the face side in a core hole, using the adapter plate	40, 45	1 screw - M12 x 40; 1 self-tapping screw - S12 x 40
Along the T-slot, using the adapter plate	40, 45	1 T-bolt M12 x 30; 1 nut DIN EN ISO 10511 - M12
Along the T-slot, using the bolt holes	40, 45	1 screw M8 x 14; 1 10 mm T-nut - M8

Swivel Caster With Mounting Plate 40/45

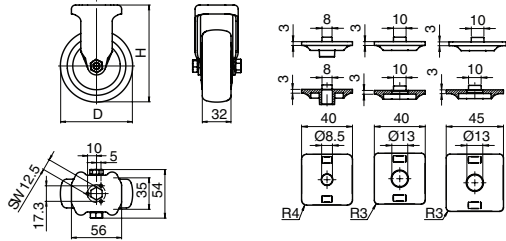


Model	With bolt hole pattern and system brake	
Description	Reliable and quiet swivel caster, trackless (except solid rubber electrostatically discharging), with ball bearings* and thread guard; integrated mounting plate for asymmetric fixation to aluminum profiles without overhang; compatible with all swivel and fixed casters due to consistent height level; no additional transport and base plate needed; swivel caster either in standard version or as electrostatically discharging version	
Material	Housing: Steel Tread: See table	Wheel body: See table
Color	Housing: Aluminum color Tread: See table	Wheel body: Black, gray ≈ RAL 7001
Pack Quantity	1 piece	

Swivel Caster Tread	D (mm)	H (mm)	ESD	Wheel Body	Max. Load (N)	Weight (g)	Part Number (Pack Qty = 1)
TPE, gray ≈ RAL 7031	80	111		PP, gray	1000	710.0	098S080TD4045N
	100	136		PP, gray	1100	787.0	098S100TD4045N
	125	161		PP, gray	1200	873.0	098S125TD4045N
	80	111		PP, black	650	740.0	098S080TD4045NESD
	100	136		PP, black	700	836.0	098S100TD4045NESD
	125	161		PP, black	800	937.0	098S125TD4045NESD
TPU, gray ≈ RAL 7024	80	111		PA, gray	1200	740.0	098S080UD4045N
	100	136		PA, gray	1200	823.0	098S100UD4045N
	125	161		PA, gray	1200	923.0	098S125UD4045N
	80	111		PA, black	1000	723.0	098S080UD4045NESD
	100	136		PA, black	1200	798.0	098S100UD4045NESD
	125	161		PA, black	1200	886.0	098S125UD4045NESD
Solid rubber, gray ≈ RAL 7001	80	111		PA, black	800	740.0	098S080GD4045N
	100	136		PA, black	1100	885.0	098S100GD4045N
	125	161		PA, black	1000	1006.0	098S125GD4045N
Solid rubber, black	80	111		PA, black	600	723.0	098S080GD4045NESD
	100	136		PA, black	800	849.0	098S100GD4045NESD
	125	161		PA, black	750	956.0	098S125GD4045NESD
PA, black; *with slide bearings	80	111		PA, black	1000	648.0	098S080AD4045N
	100	136		PA, black	1200	774.0	098S100AD4045N
	125	161		PA, black	1200	841.0	098S125AD4045N



Fixed Caster 40/45

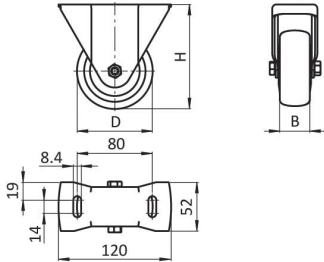


Model	With bolt hole; compatible with optional adapter plate F	
Description	Reliable and quiet fixed caster, trackless (except solid rubber electrostatically discharging), with ball bearings* and thread guard; can be fixed to aluminum profiles; compatible with all swivel and fixed casters due to consistent height level with optional adapter plate F; no additional transport and base plate needed	
Material	Housing: Steel Tread: See table Wheel body: See table	Wheel body: See table
Color	Housing: Aluminum color Tread: See table	Wheel body: Black, gray ≈ RAL 7001
Pack Quantity	1 piece	

Fixed Caster Tread	D (mm)	H (mm)	ESD	Wheel Body	Max. Load (N)	Weight (g)	Part Number (Pack Qty = 1)
TPE, gray ≈ RAL 7031	80	108		PP, gray	1000	323.0	098F080TN
	100	133		PP, gray	1100	390.0	098F100TN
	125	158		PP, gray	1200	472.0	098F125TN
	80	108		PP, black	650	353.0	098F080TNESD
	100	133		PP, black	700	439.0	098F100TNESD
	125	158		PP, black	800	536.0	098F125TNESD
TPU, gray ≈ RAL 7024	80	108		PA, gray	1200	353.0	098F080UN
	100	133		PA, gray	1200	426.0	098F100UN
	125	158		PA, gray	1200	522.0	098F125UN
	80	108		PA, black	1000	336.0	098F080UNESD
	100	133		PA, black	1200	401.0	098F100UNESD
	125	158		PA, black	1200	485.0	098F125UNESD
Solid rubber, gray ≈ RAL 7001	80	108		PA, black	800	353.0	098F080GN
	100	133		PA, black	1100	488.0	098F100GN
	125	158		PA, black	1000	605.0	098F125GN
Solid rubber, black	80	108		PA, black	600	336.0	098F080GNESD
	100	133		PA, black	800	452.0	098F100GNESD
	125	158		PA, black	750	555.0	098F125GNESD
PA, black; *with slide bearings	80	108		PA, black	1000	261.0	*098F080AN
	100	133		PA, black	1200	377.0	098F100AN
	125	158		PA, black	1200	440.0	098F125AN

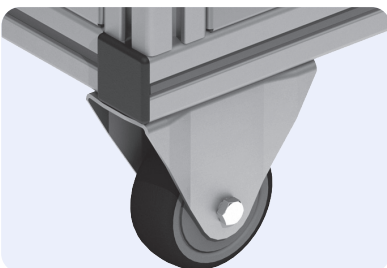


Fixed Caster With Mounting Plate 40/45

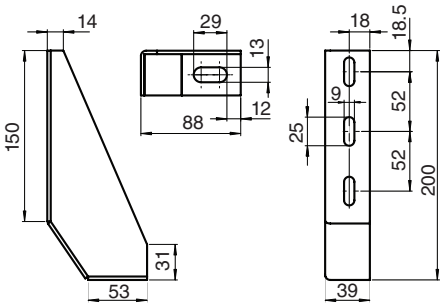


Model	With bolt hole pattern	
Description	Reliable and quiet fixed caster, trackless (except solid rubber  electrostatically discharging), with ball bearings* and thread guard; integrated mounting plate for asymmetric fixation to aluminum profiles 40 mm and 45 mm without overhang; compatible with all swivel and fixed casters due to consistent height level; no additional transport and base plate needed	
Material	Housing: Steel Tread: See table	Wheel body: See table
Color	Housing: Aluminum color Tread: See table	Wheel body: Black, gray ≈ RAL 7001
Pack Quantity	1 piece	

Swivel Caster Tread	D (mm)	H (mm)	ESD	Wheel Body	Max. Load (N)	Weight (g)	Part Number (Pack Qty = 1)
TPE, gray ≈ RAL 7031	80	111		PP, gray	1000	484.0	098F080T4045N
	100	136		PP, gray	1100	577.0	098F100T4045N
	125	161		PP, gray	1200	675.0	098F125T4045N
	80	111		PP, black	650	514.0	098F080T4045NESD
	100	136		PP, black	700	626.0	098F100T4045NESD
	125	161		PP, black	800	739.0	098F125T4045NESD
TPU, gray ≈ RAL 7024	80	111		PA, gray	1200	514.0	098F080U4045N
	100	136		PA, gray	1200	613.0	098F100U4045N
	125	161		PA, gray	1200	725.0	098F125U4045N
	80	111		PA, black	1000	497.0	098F080U4045NESD
	100	136		PA, black	1200	588.0	098F100U4045NESD
	125	161		PA, black	1200	758.0	098F125U4045NESD
Solid rubber, gray ≈ RAL 7001	80	111		PA, black	800	514.0	098F080G4045N
	100	136		PA, black	1100	675.0	098F100G4045N
	125	161		PA, black	1000	725.0	098F125G4045N
Solid rubber, black	80	111		PA, black	600	497.0	098F080G4045NESD
	100	136		PA, black	800	639.0	098F100G4045NESD
	125	161		PA, black	750	758.0	098F125G4045NESD
PA, black; *with slide bearings	80	111		PA, black	1000	422.0	098F080A4045N
	100	136		PA, black	1200	564.0	098F100A4045N
	125	161		PA, black	1200	643.0	098F125A4045N



L=200 Foundation Bracket

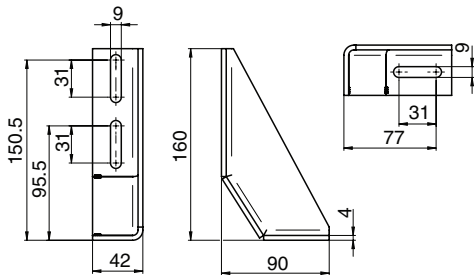


Model	Steel, profile 40 and up
Description	To securely fix aluminum profiles to the floor
Material	Steel
Pack Quantity	10 pieces

Floor Bracket 200	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Zinc plated	10	456.0	093B2001V
Powder coated	10	456.0	093B2001S



L=160 Foundation Bracket



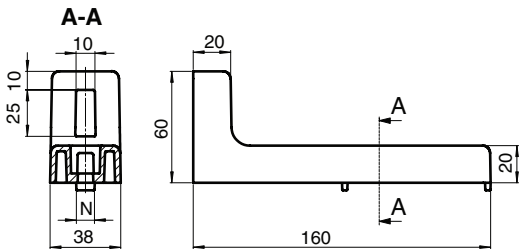
Model	Steel, profile 45 and up
Description	To securely fix aluminum profiles to the floor
Material	Steel
Pack Quantity	10 pieces

7

Floor Bracket 160	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Zinc plated	10	423.0	093B2002V
Powder coated	10	423.0	093B2002S

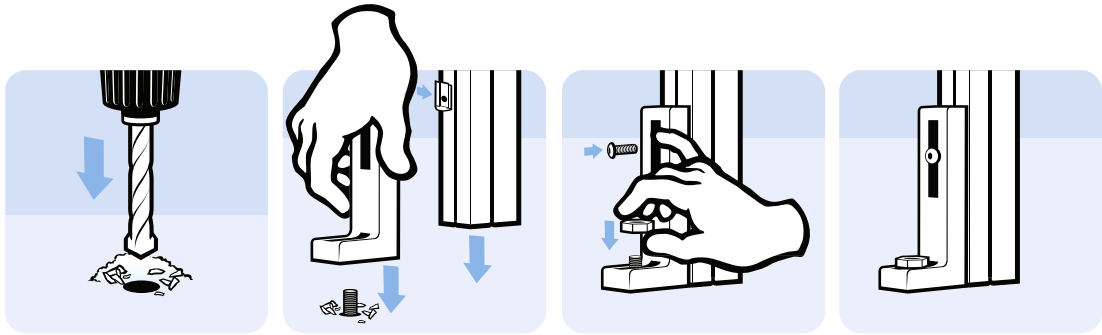


Floor Bracket 160



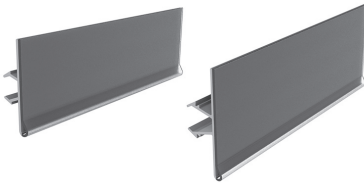
Model	Zinc die-cast, profile 40 and up
Description	To securely fix aluminum profiles to the floor
Material	Floor bracket: Zinc die-cast Assembly set: Steel
Assembly Set	1 floor bracket 160, 1 8 mm T-nut - M8, 1 screw ISO 7380 - M8 × 16
Pack Quantity	10 pieces

Floor Bracket 160		T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Plain		8	110.0	093B1601N08R
		10	110.0	093B1601N10R





Grab Containers
Page 208



Label Clips
Page 209

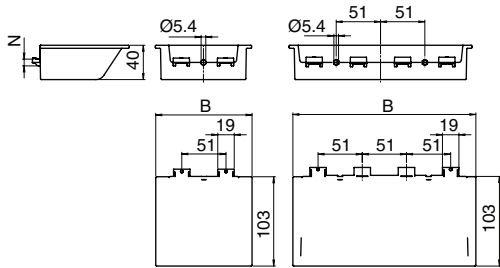
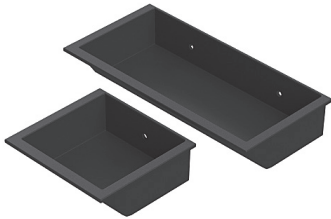


Visual Management
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Workstation

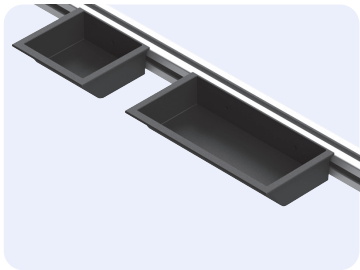
Grab Container 110/120x105x40



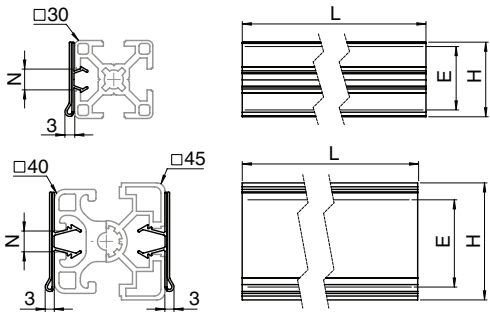
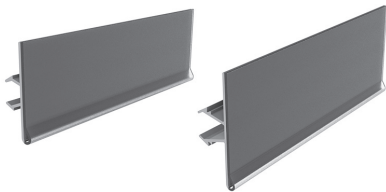
Model	Slot 10
Description	To store and provide small parts; simple assembly by swiveling into the profile slot, optional fixation possibility using 1 or 2 screws M5
Material	Plastic PA, glass fiber reinforced
Color	Black
Pack Quantity	10 pieces

8

Grab Container 110/210x105x40	B (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
	110	10	97.2	061MGC2D291N10
	210	10	194.1	061MGC4D291N10



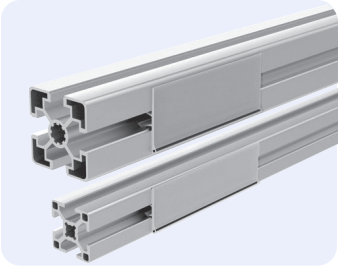
Label Clip



Model	For profiles with slot 8, 10
Description	For labeling on profiles - with 30 mm: for labels with 23 mm (max. 26 mm) height - with ≥ 40 mm: for labels with 36 mm (max. 38 mm) height
Material	Plastic PVC
Color	Gray $\approx$ RAL 7035 / transparent
Pack Quantity	20 pieces (at 102 mm / at 160 mm) or 20 meters (10 pieces at 2 m)
Tip	*Please note: You are ordering in meters!

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Label Clip	E (mm)	H (mm)	L (mm)	T-Slot (N)	For Profile (mm)	Weight (g)	Part Number (Pack Qty = 20 pcs. or 20 m)
	23 (max. 26)	28	102	8	30	6.0	093LC23N08S01.102
	23 (max. 26)	28	*2000	8	30	126.0	093LC23N08S01.2000
	36 (max. 38)	40	102	8 + 10	≥ 40	12.0	093LC36N0810S01.102
	36 (max. 38)	40	160	8 + 10	≥ 40	16.0	093LC36N0810S01.160
	36 (max. 38)	40	*2000	8 + 10	≥ 40	190.0	093LC36N0810S01.2000

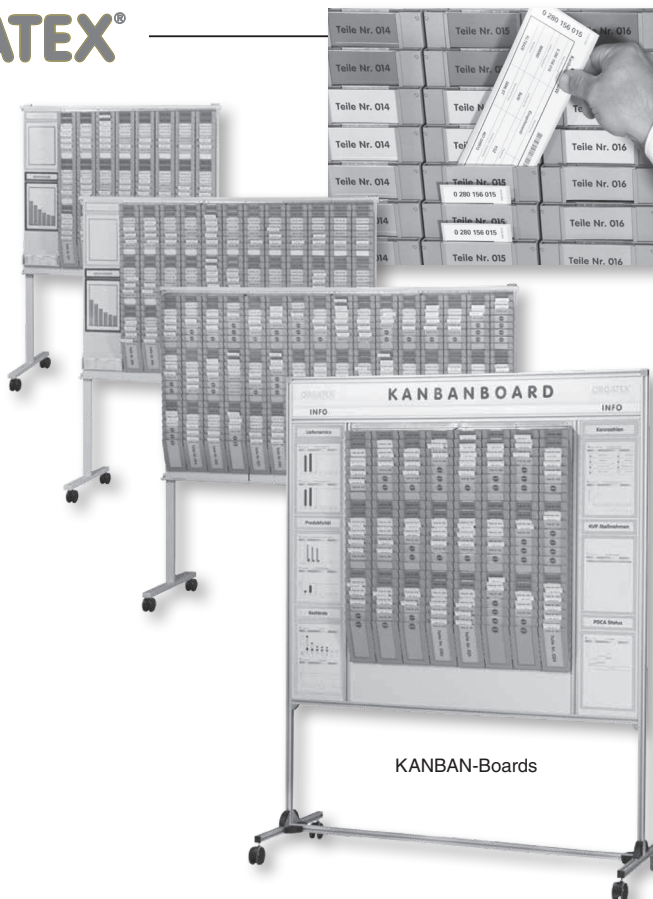


Visual Management

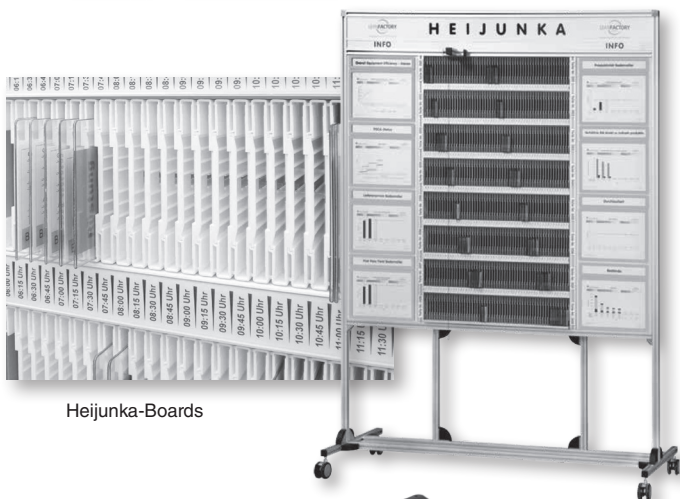
ORGATEX®



Container Labeling

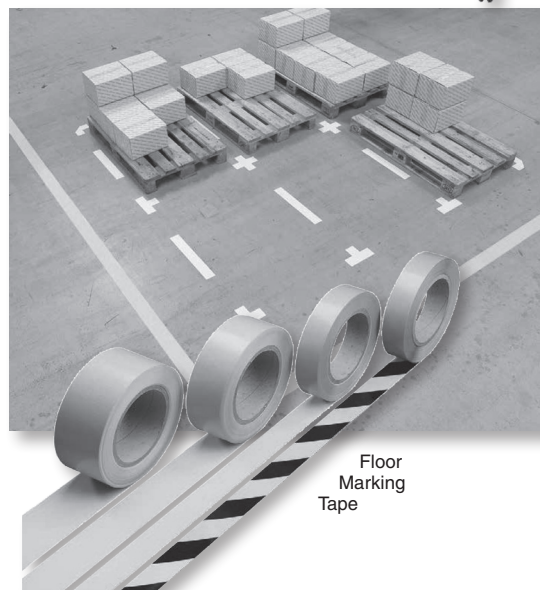
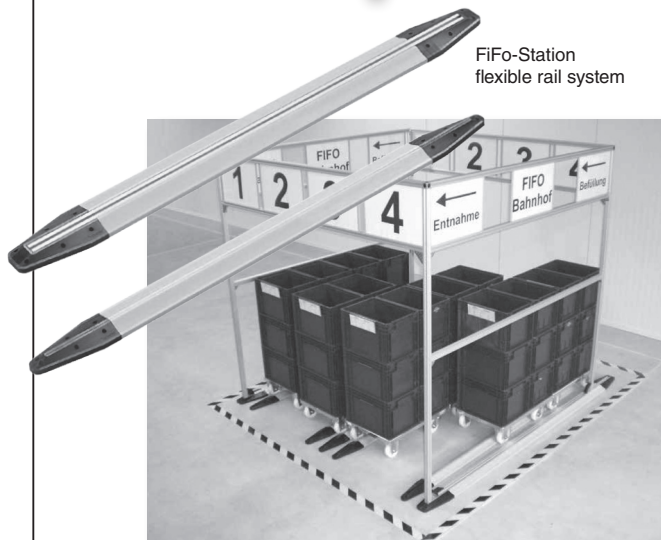


KANBAN-Boards



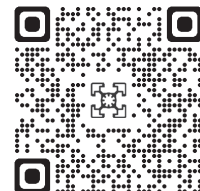
Heijunka-Boards

FIFO-Station
flexible rail system



Floor
Marking
Tape

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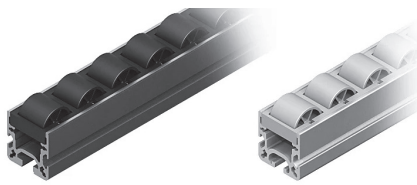


or go to:

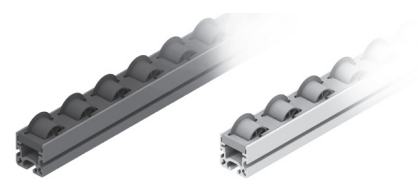
<https://leanfactoryamerica.com/brand/orgatex/>



Roller Element, Screw-on Version
Page 212



Roller Track Without Flange
Page 213



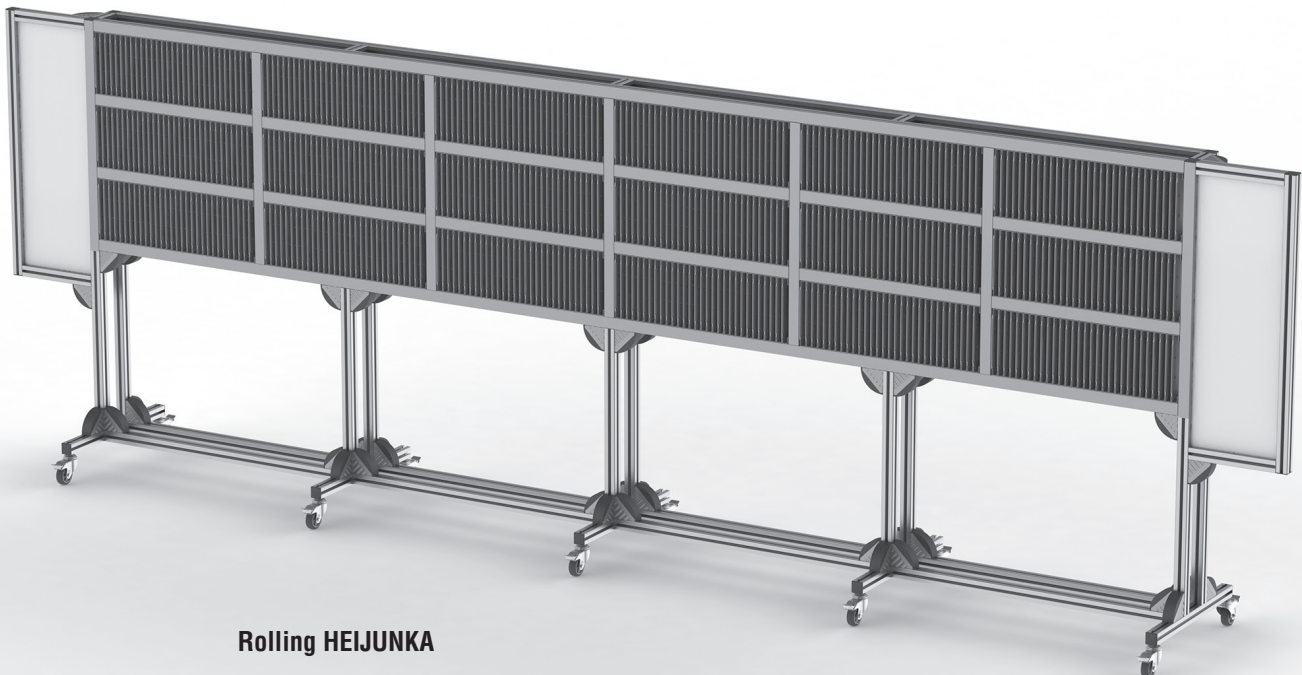
Roller Rack With Flange
Page 214



Brand Products

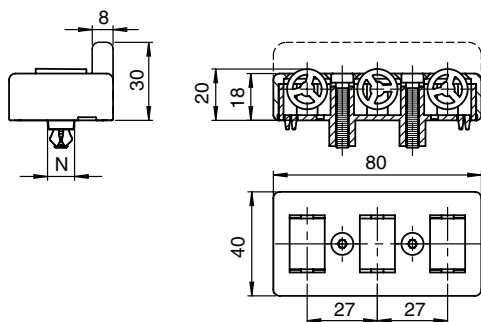
Powered Conveyor Components
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lean  frame
Application Ideas



Rolling HEIJUNKA

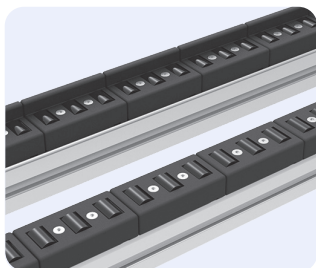
Roller Element, Screw-on Version



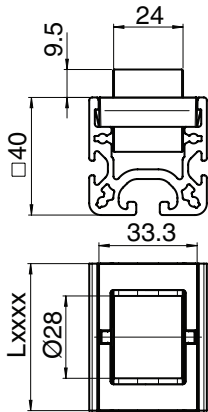
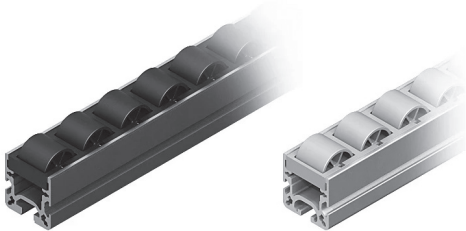
Model	Without slot, slot 8, slot 10
Description	For fabricating roller conveyors in any width and length, incl. 2 Screws M5 × 25
Material	Casing: Plastic PA, glass ball reinforced Rollers: Plastic POM Assembly set: Steel
Color	Black
Fastening	Version 1 (with clamp Hammer): to be fastened with 2 screw-in or knock-in screws M5 × 25 Version 2 (without clamp Hammer): using 2 screws M5 × 25 and T-slot nuts
Assembly Set 2	2 - 10 mm T-nuts - M5
Pack Quantity	10 pieces
Tip	* delivery of electrostatically discharging version without clamp Hammer, to fasten with electrostatically discharging T-nuts or T-slot nuts
Note	Use with RP01 aluminum profile on page 36

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Roller Element, Screw-on Version		T-Slot (N)	ESD	Weight (g)	Part Number (Pack Qty = 10)
Without lateral guide		- / 8 / 10		53.0	09309302
		- / 8 / 10		54.5	*09309302S01
	With assembly set 2	10		70.0	*09309302S02
With lateral guide		- / 8 / 10		59.0	09309304
		- / 8 / 10		61.5	*09309304S01
	With assembly set 2	10		77.0	*09309304S03



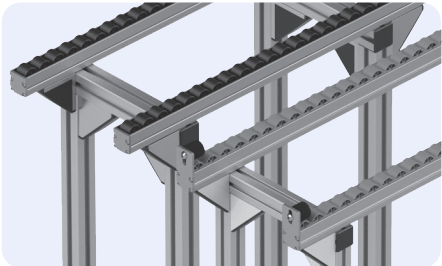
Roller Track AL R28 (Without Flange)



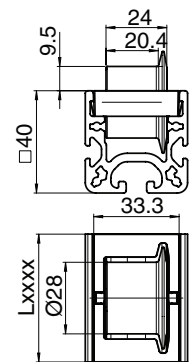
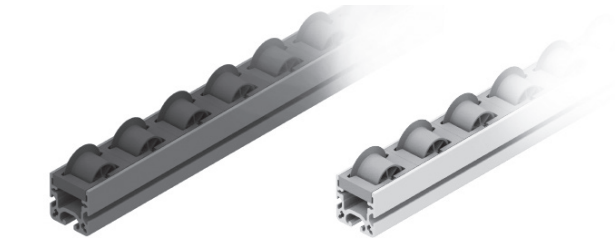
Model	Assembled ready for use
Description	Resilient and smooth running roller track AL R28, quickly replaceable, without flange as lateral guiding
Material	Roller track profile AL: Aluminum Standard roller: Plastic PA, glass ball reinforced ☑electrostatically discharging roller: Plastic PA, carbon fiber reinforced Standard cage: Plastic PA, glass fiber reinforced ☑electrostatically discharging cage: Plastic PA, carbon fiber reinforced Axle: Steel
Color	Standard roller / cage: See table ☑electrostatically discharging roller / cage: See table
Pack Quantity	1 piece at 6000 mm; Cut min. 50 mm - max. 6000 mm
Tip	Please note: You are ordering in meters! For cut: To order, please replace “xxx” in the part number by the required length in mm, e.g. “0350” for 350 mm or “2000” for 2000 mm
Note	Use with RP01 aluminum profile on page 36

Roller Track AL R28	ESD	Color of Cage	Color of Roller	Max. Load (N)	Weight (g)	Part Number (Pack Qty = 1)
Without flange (axle distance 50 mm)		Black	Black	150	1665.0	6APR2891B.6000
	☑	Black	Black	125	1605.0	6APR2891BESD.6000
		Gray ≈ RAL 7042	Gray ≈ RAL 7042	150	1665.0	6APR2874B.6000

Contact Lean Factory America for
Cut-to-Length Roller Track



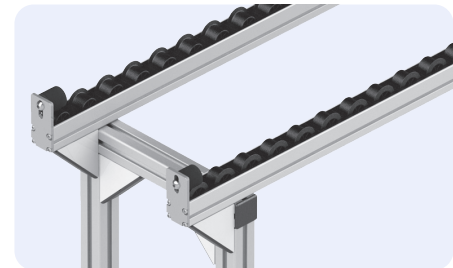
Roller Track AL R28 (With Flange)



Model	Assembled ready for use
Description	Resilient and smooth running roller track AL R28, quickly replaceable, with flange as lateral guiding
Material	Roller track profile AL: Aluminum Standard roller: Plastic PA, glass ball reinforced ☑electrostatically discharging roller: Plastic PA, carbon fiber reinforced Standard cage: Plastic PA, glass fiber reinforced ☑electrostatically discharging cage: Plastic PA, carbon fiber reinforced Axle: Steel
Color	Standard roller / cage: See table ☑electrostatically discharging roller / cage: See table
Pack Quantity	1 piece at 6000 mm; Cut min. 50 mm - max. 6000 mm
Tip	Please note: You are ordering in meters! For cut: To order, please replace “xxxx” in the part number by the required length in mm, e.g. “0350” for 350 mm or “2000” for 2000 mm
Note	Use with RP01 alu mminum profile on page 36

Roller Track AL R28	ESD	Color of Cage	Color of Roller	Max. Load (N)	Weight (g)	Part Number (Pack Qty = 1)
With flange (axle distance 50 mm)		Black	Black	125	1625.0	6APR28F91BESD.6000
		Gray ≈ RAL 7042	Gray ≈ RAL 7042	150	1725.0	6APR28F74B.6000

Contact Lean Factory America for
Cut-to-Length Roller Track

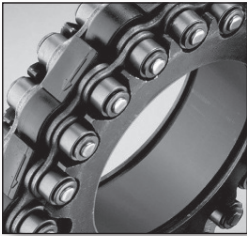


Powered Conveyor Components

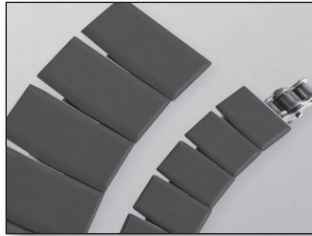


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Conveyor Products

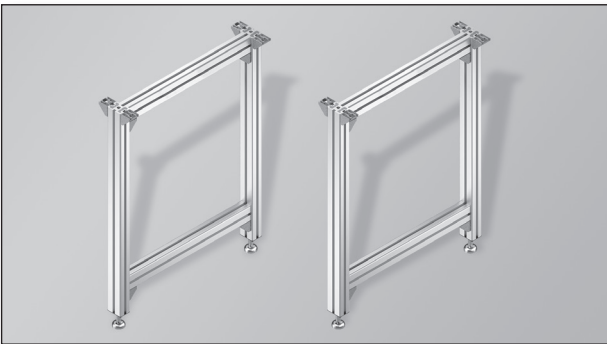


Roller Chain



Flat-Top Chain

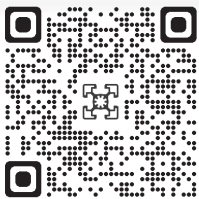
LFA Conveyor Products



Legsets

Lean Factory America offers iwis conveyor media such as roller chain, flat-top chain and belts. iwis components and Lean Factory America legsets are functional and interchangeable equivalents to OEM parts. Just call us or download the cross-reference guide at the link below and begin realizing the benefits like many others have already done.

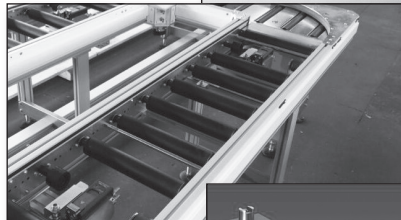
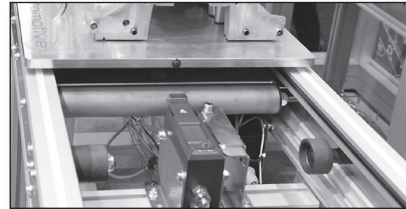
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Scan the QR Code to download a LFA conveyor and chain cross-reference guide.



Asutec Automation Components



Pallet Stops and Traffic Control

The Asutec family of pallet stops, precision locating devices and traffic control elements enables reliable material transportation and workpiece flow throughout your manufacturing process. Call us or go to the link below for more information on the Asutec line of automation components.

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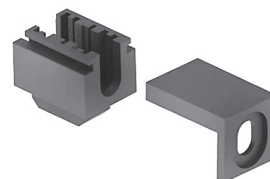
Scan the QR Code to download an Asutec cross-reference guide, full line catalog and other product information.



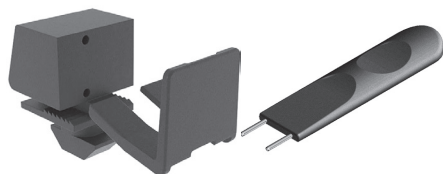
Suspension Bracket Set
Page 217



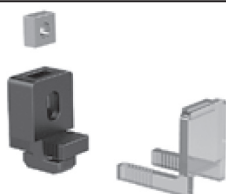
Quick-Blocks / Uniblocks
Page 219



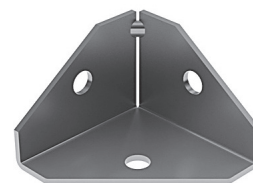
Vario Blocks
Page 227



Clip Blocks
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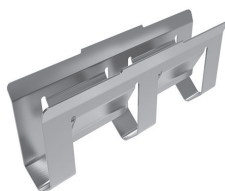
Vario Clamping Blocks
Page 232



Steel Connection Angle 45/60
Page 234



Cover/Panel Installation Profile
Page 235



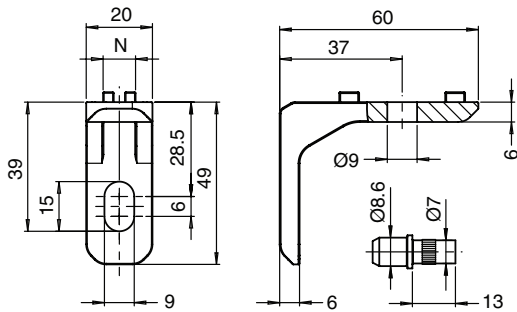
Clamping Spring
Page 244

lean  frame
Application Ideas



Machine Guard Panels

Suspension Bracket Set



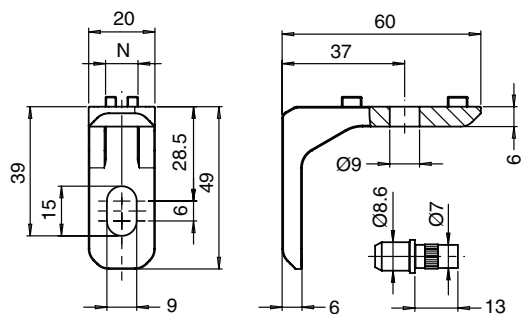
Model	Zinc die-cast, slot 10
Description	To attach a protective frame panel between two posts
Material	Suspension Bracket: Zinc die-cast, Assembly set: Steel
Set	4 suspension brackets, 4 flange nuts M8, 4 T-bolts M8 x 20, 2 locking screws - Verbus Ripp B - M8 x 16, 2 knurled pins Ø 8.6, for core hole
Pack Quantity	1 set (= 4 pieces)

Suspension Bracket Set	T-slot (N)	Weight (g)	Part Number (Pack Qty = 1 set)
	10	106.0	093WL201N10S01

10

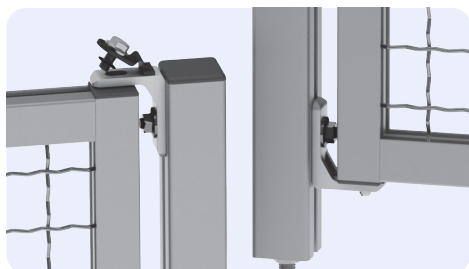


Suspension Bracket CS Set

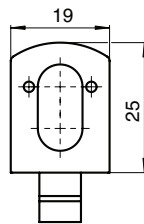
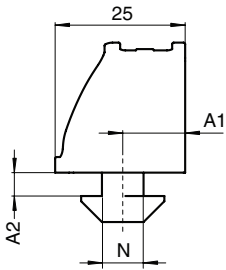


Model	Zinc die-cast, slot 10
Description	To attach a protective frame panel between two posts, according to Machinery Directive 2006/42/EC
Material	Suspension bracket: Zinc die-cast Assembly set: Steel Safety strap: Plastic PA Anti-loss washer: Plastic PA
Color	Safety strap: Black, Anti-loss washer: Natural
Set	2 suspension brackets, 2 suspension brackets, pre-assembled, 2 knurled pins Ø 8.6, for core hole, 2 locking screws - Verbus Ripp B - M8 x 25, 2 safety straps, 2 anti-loss washers, 4 T-bolts M8 x 20, 4 flange nuts M8
Pack Quantity	1 set (= 4 pieces)

Suspension Bracket CS Set	T-slot (N)	Weight (g)	Part Number (Pack Qty = 1 set)
	10	207.0	093WL201N10S04



Quick-block 25



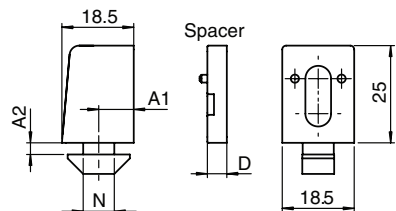
Model	Plastic PA, slot 8, 10
Description	To attach panels quickly to aluminum profiles
Material	Plastic PA, glass fiber reinforced
Color	Black
Pack Quantity	100 pieces

Quick-block 25	A1 (mm)	A2 (Profile) (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 100)
	8.5	5.7 (6.0)	10	12.0	094701
	7.0	1.9 (2.2)	8	11.0	094707

10

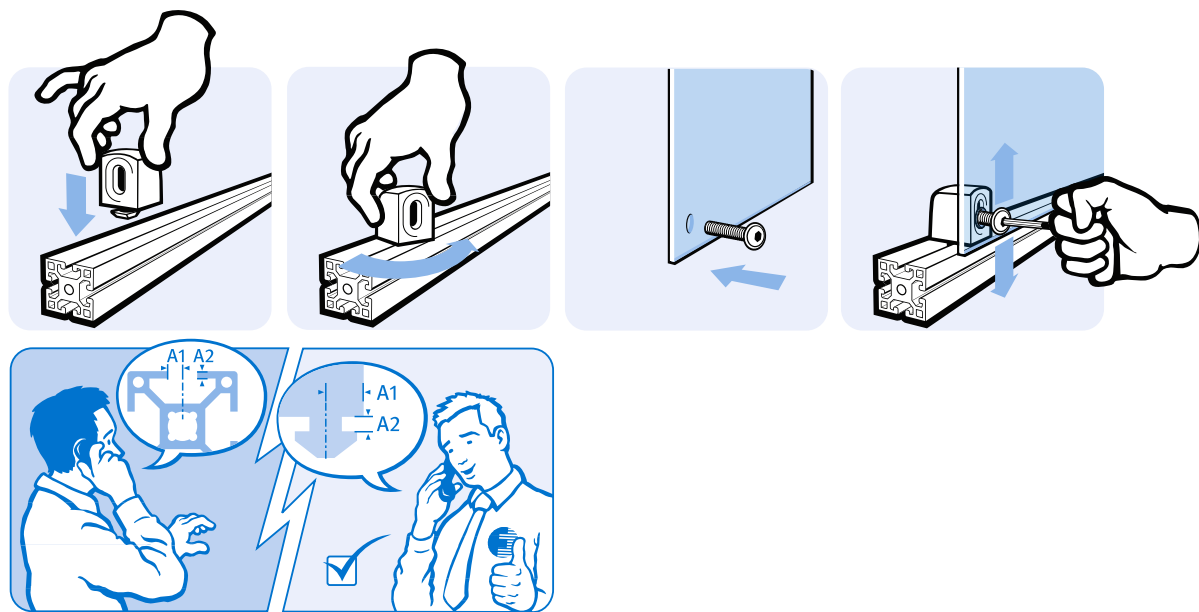


Uniblock 18

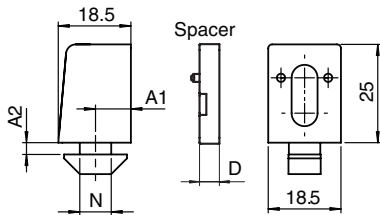
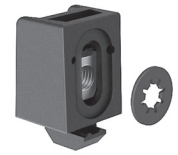


Model	Plastic PA, slot 8
Description	To attach panels easily to aluminum profiles
Material	Block: Plastic PA, glass fiber reinforced Nut: Zinc plated steel
Color	Black
Pack Quantity	100 pieces
Tip	*no further spacers can be added!

Uniblock 18	A1 (mm)	A2 (Profile) (mm)	D (mm)	T-slot (N)	Thread	Weight (g)	Part Number (Pack Qty = 100)
	7.0	1.9 (2.2)		8	M4	8.3	094002M4
	7.0	1.9 (2.2)		8	M5	8.4	094002M5
	7.0	1.9 (2.2)		8	M6	8.6	094002M6
Spacer			*2.0			1.0	094102
			3.0			1.2	094103
			5.0			2.1	094105



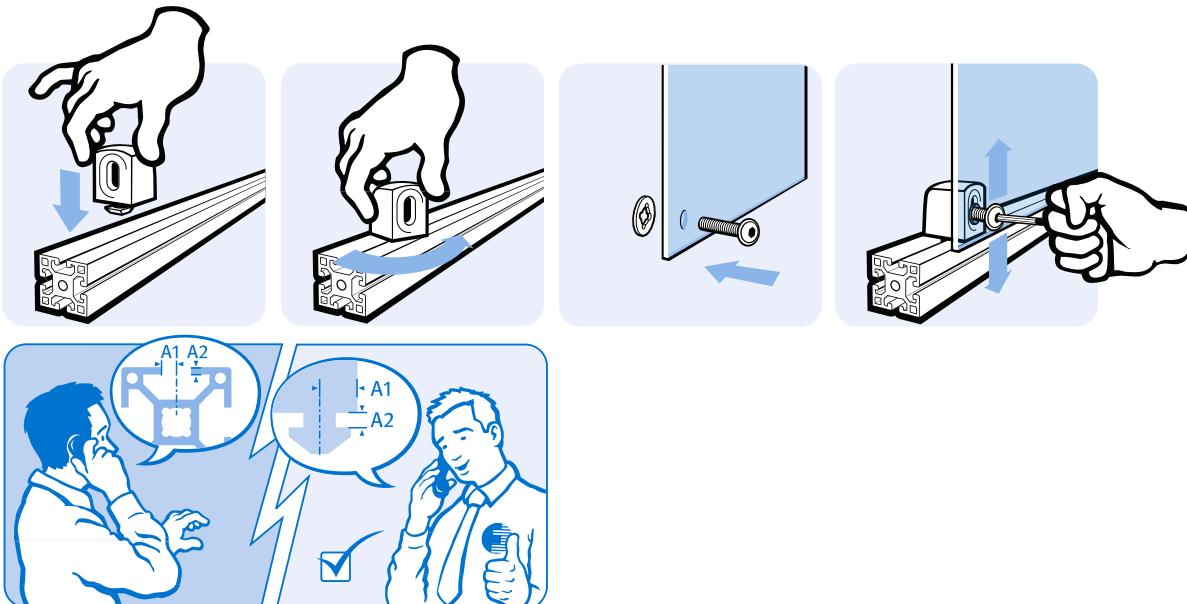
Uniblock 18 CS



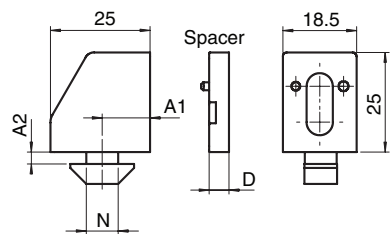
Model	With screw retainer
Description	To attach panels safely to aluminum profiles; with screw retainer to comply with Machinery Directive 2006/42/EC
Material	Block: Plastic PA, glass fiber reinforced Nut: Zinc plated steel
Color	Black
Pack Quantity	100 pieces
Tip	*no further spacers can be added!

Uniblock 18 CS	A1 (mm)	A2 (Profile) (mm)	D (mm)	T-slot (N)	Thread	Weight (g)	Part Number (Pack Qty = 100)
	7.0	1.9 (2.2)		8	M6	8.5	094002CSM6
Spacer CS			*2.0			0.8	094102CS
			3.0			1.0	094103CS
			5.0			1.9	094105CS

10

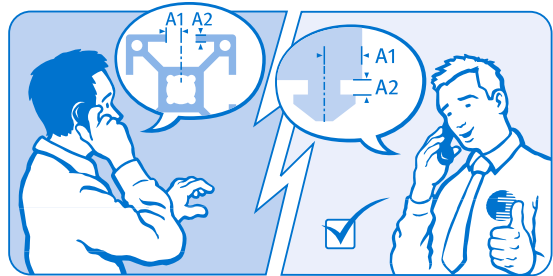


Uniblock 25

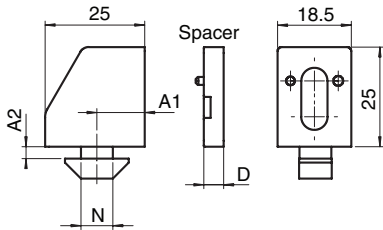


Model	Plastic PA, slot 10
Description	To attach panels easily to aluminum profiles
Material	Block: Plastic PA, glass fiber reinforced Nut: Zinc plated steel
Color	Black
Pack Quantity	100 pieces
Tip	*no further spacers can be added!

Uniblock 25	A1 (mm)	A2 (Profile) (mm)	D (mm)	T-slot (N)	Thread	Weight (g)	Part Number (Pack Qty = 100)
	8.5	5.7 (6.0)		10	M4	10.6	094008M4
	8.5	5.7 (6.0)		10	M5	10.5	094008M5
	8.5	5.7 (6.0)		10	M6	10.4	094008M6
	9.5	5.6 (6.0)		10	M4	10.6	094004M4
	9.5	5.6 (6.0)		10	M5	10.5	094004M5
	9.5	5.6 (6.0)		10	M6	10.4	094004M6
	14.0	6.0 (6.0)		10	M4	10.4	094005M4
	14.0	6.0 (6.0)		10	M5	10.3	094005M5
	14.0	6.0 (6.0)		10	M6	10.2	094005M6
Spacer			*2.0			1.0	094102
			3.0			1.2	094103
			5.0			2.1	094105



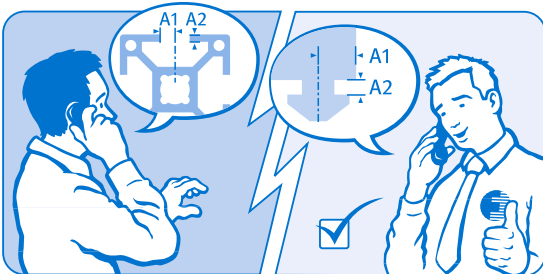
Uniblock 25 CS



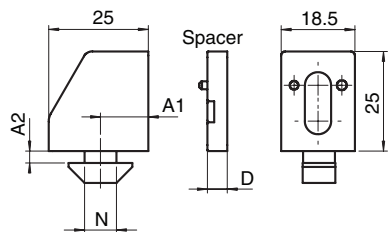
Model	With screw retainer
Description	To attach panels safely to aluminum profiles; with screw retainer to comply with Machinery Directive 2006/42/EC
Material	Block: Plastic PA, glass fiber reinforced Nut: Zinc plated steel
Color	Black
Pack Quantity	100 pieces
Tip	*no further spacers can be added!

Uniblock 25 CS	A1 (mm)	A2 (Profile) (mm)	D (mm)	T-slot (N)	Thread	Weight (g)	Part Number (Pack Qty = 100)
	9.5	5.6 (6.0)		10	M6	12.0	094004CSM6
	8.5	5.7 (6.0)		10	M6	11.5	094008CSM6
	14.0	6.0 (6.0)		10	M6	10.0	094005CSM6
Spacer			*2.0			0.8	094102CS
			3.0			1.0	094103CS
			5.0			1.9	094105CS

10

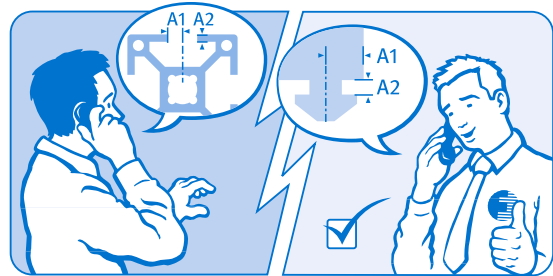


Uniblock, Transparent Colorless

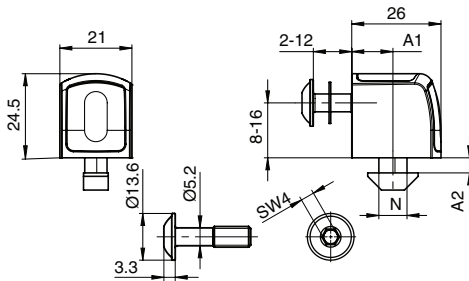


Model	Plastic PC, slot 10
Description	To attach panels easily to aluminum profiles
Material	Block: Plastic PC Nut: Zinc plated steel
Color	Transparent colorless
Pack Quantity	100 pieces
Tip	*no further spacers can be added!

Uniblock, Transparent Colorless	A1 (mm)	A2 (Profile) (mm)	D (mm)	T-slot (N)	Thread	Weight (g)	Part Number (Pack Qty = 100)
	14.0	6.0 (6.0)		10	M6		094005GM6
Spacer			*2.0			0.7	094102G
			3.0			1.2	094103G
			5.0			2.0	094105G



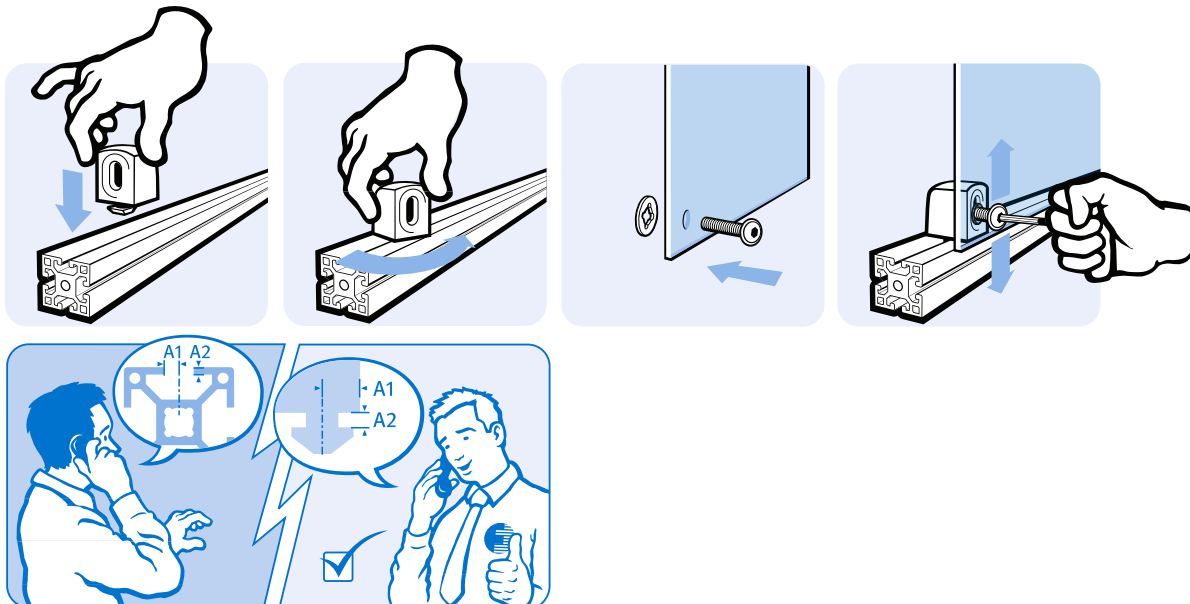
Uniblock 26 CS



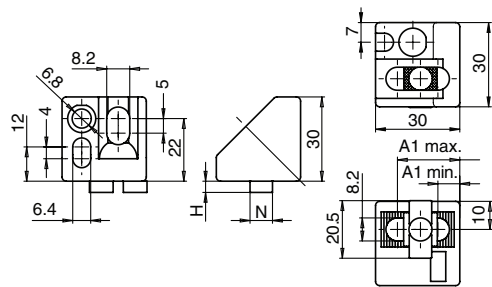
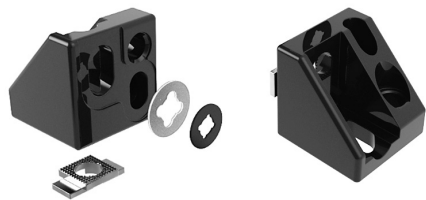
Model	With screw retainer
Description	To attach panels with a thickness of 2 - 12 mm safely to aluminum profiles; with screw retainer to comply with Machinery Directive 2006/42/EC
Material	Block: Plastic PA, glass fiber reinforced Nut: Zinc plated steel
Color	Black
Pack Quantity	100 pieces

Uniblock 26 CS	A1 (mm)	A2 (Profile) (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 100)
	14.0	6.3 (6.0)	10	21.0	094605CSS02

10

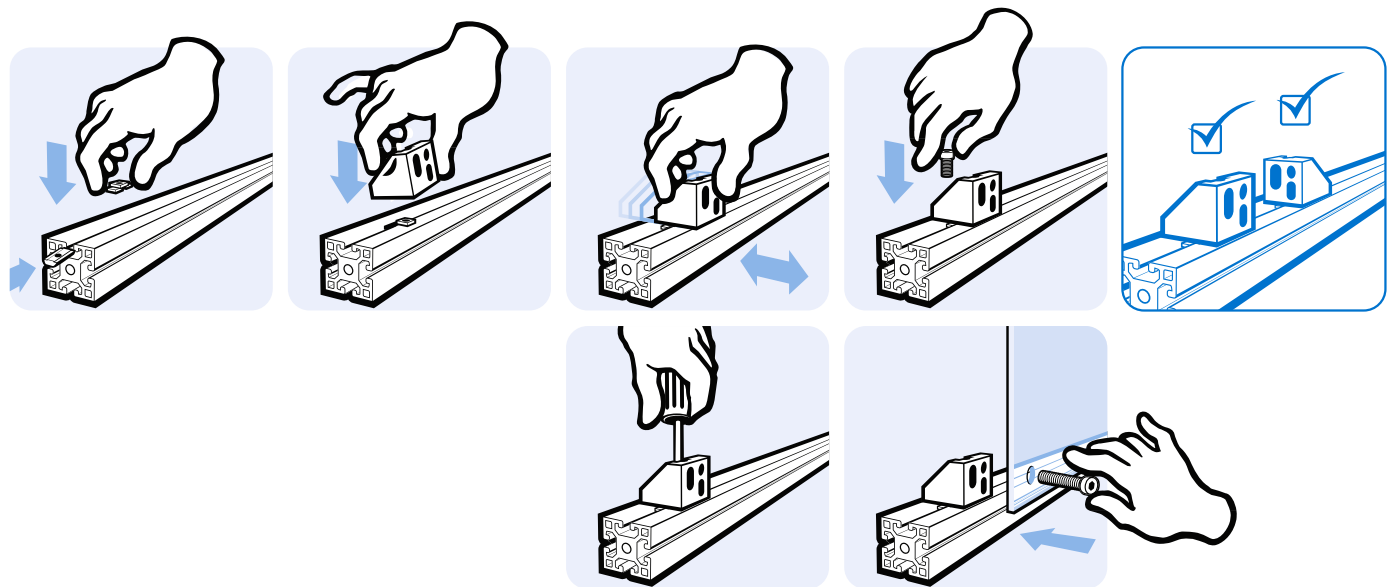


Uniblock ZN 40

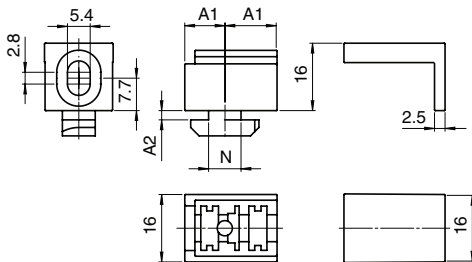
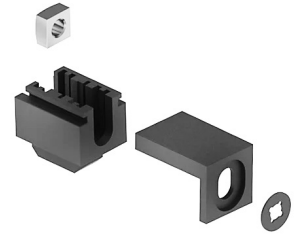


Model	Zinc die-cast, slot 8, 10
Description	To attach panels to aluminum profiles; especially for high load bearing (up to 2000 N) on the panels
Material	Zinc die-cast
Pack Quantity	10 pieces

Uniblock ZN 40	A1 max. (mm)	A1 min. (mm)	H (mm)	T-slot (N)	Thread	Weight (g)	Part Number (Pack Qty = 10)
	22.0	8.0			M6	61.4	094Z40S
	22.0	8.0	1.7	8	M6	69.8	094Z40S0817
	22.0	8.0	4.0	10	M6	72.0	094Z40S1040

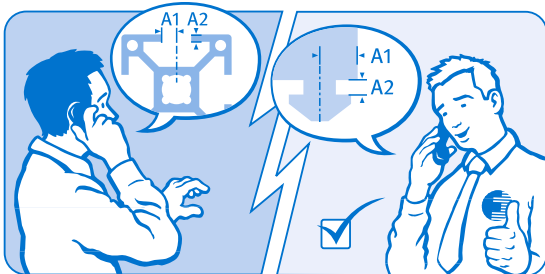


Vario Block 18 CS

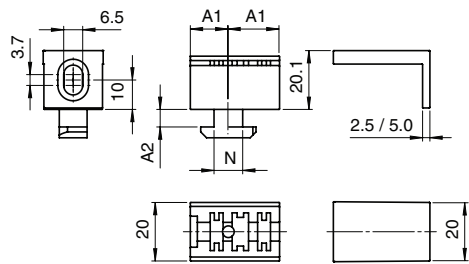
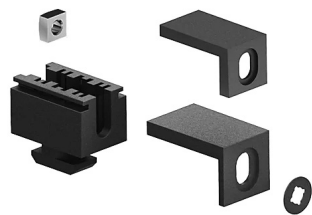


Model	Plastic PA, slot 8
Description	To attach panels simply to aluminum profiles; with screw retainer to comply with Machinery Directive 2006/42/EC
Material	Block: Plastic PA, glass fiber reinforced Nut: Steel
Color	Block: Black
Pack Quantity	100 pieces
Tip	*A1 size with spacer!

Vario Block 18 CS	A1 (mm)	A2 (Profile) (mm)	T-slot (N)	Thread	Weight (g)	Part Number (Pack Qty = 100)
	9.5 / 12* / 12.5 / 15*	2.2 (2.2)	8	M5	8.8	094511M5CS



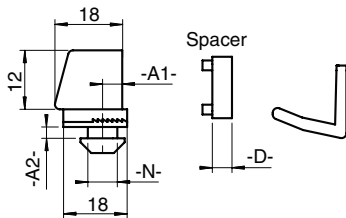
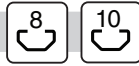
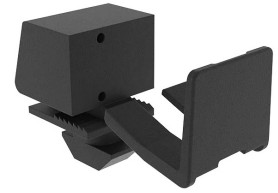
Vario Block 25 CS



Model	Plastic PA, slot 10
Description	To attach panels simply to aluminum profiles; with screw retainer to comply with Machinery Directive 2006/42/EC
Material	Block: Plastic PA, glass fiber reinforced Nut: Steel
Color	Block: Black
Pack Quantity	100 pieces
Tip	*A1 size with spacer!

Vario Block 25 CS	A1 (mm)	A2 (Profile) (mm)	T-slot (N)	Thread	Weight (g)	Part Number (Pack Qty = 100)
	2.5: 13 / 15.5* / 17.5 / 20* 5.0: 13 / 18* / 17.5 / 22.5*	6.0 (6.0)	10	M5	18.8	094513M5CS

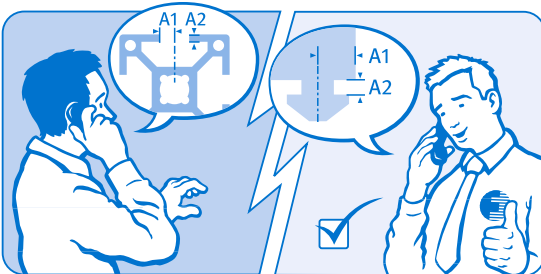
Clip Block 14



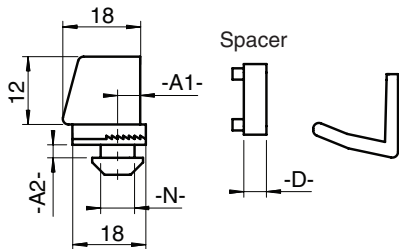
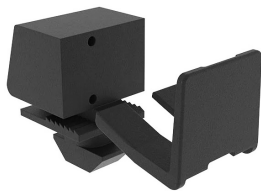
Model	Plastic PA, slot 8, 10
Description	To attach panels to aluminum profiles without screws or tools
Material	Plastic PA, glass fiber reinforced
Color	Black
Fixation Span	Panel units with a thickness of 1 - 9 mm
Pack Quantity	100 pieces
Tip	*no further spacers can be added!

Clip Block	A1 (mm)	A2 (Profile) (mm)	D (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 100)
	7.0	2.2 (2.2)		8	7.4	094202
	14.0	5.8 (6.0)		10	8.0	094205
Spacer			*2.0		1.0	094102K
			3.0		1.5	094103K
			5.0		2.0	094105K

10

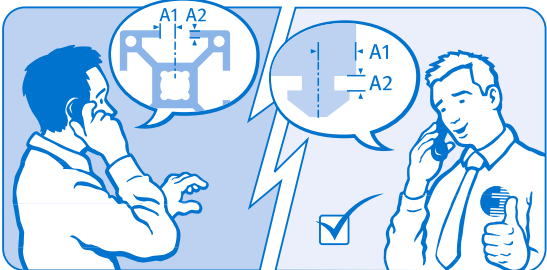


Clip Block 14 SL

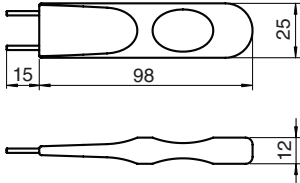
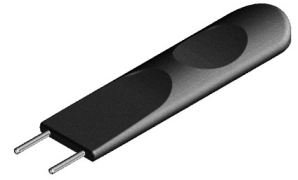


Model	Plastic PA, slot 8, 10
Description	To attach panels easily to aluminum profiles without screws or tools; can only be opened with the special Tool SL
Material	Plastic PA, glass fiber reinforced
Color	Black
Fixation Span	Panel units with a thickness of 1 - 9 mm
Pack Quantity	100 pieces
Tip	*Tool SL for Clip Block 14 SL see page 231

Clip Block 14SL	A1 (mm)	A2 (Profile) (mm)	D (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 100)
	7.0	2.2 (2.2)		8	7.0	094202SL
	14.0	5.8 (6.0)		10	8.0	094205SL
Spacer			*2.0		1.0	094102K
			3.0		1.5	094103K
			5.0		2.0	094105K



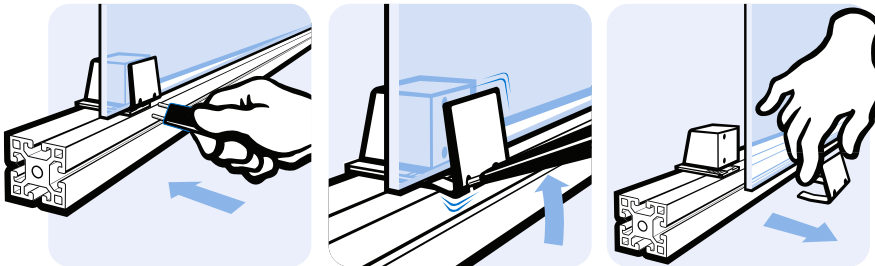
Tool SL



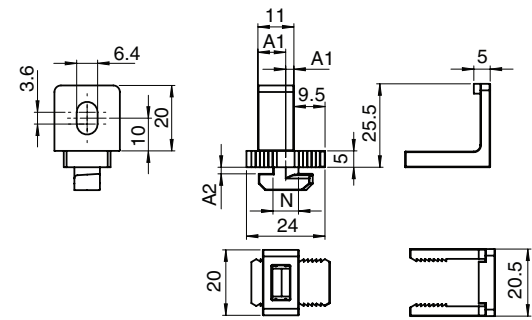
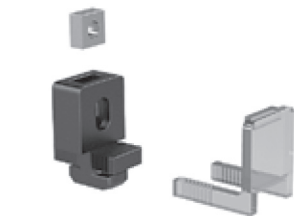
Model	Plastic PA
Description	To open the Clip Block SL
Material	Plastic PA, glass ball reinforced Pins: Zinc plated steel
Color	Red
Pack Quantity	1 piece

Tool SL	Weight (g)	Part Number (Pack Qty = 1)
	23.0	0942SL

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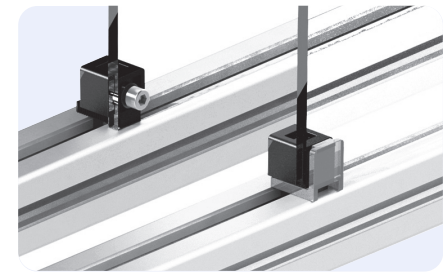
Vario Clamping Block 18



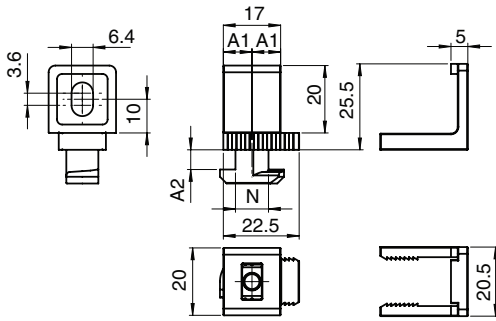
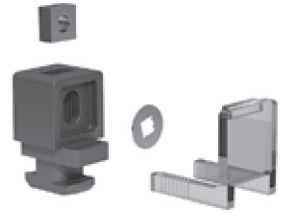
Model	Plastic PA, slot 8
Description	To attach panels safely to aluminum profiles; optional screwless mounting with clip clamp
Material	Block: Plastic PA, glass fiber reinforced Clip clamp: Plastic PC Nut: Steel
Color	Block: Black Clip clamp: Transparent colorless
Fixation Span	With clip clamp from 0 to 13 mm
Pack Quantity	100 pieces

10

Vario Clamping Block 18	A1 (mm)	A2 (Profile) (mm)	T-slot (N)	Thread	Weight (g)	Part Number (Pack Qty = 100)
	2.5 / 8.5	2.2 (2.2)	8	M6	7.8	094523M6
Clip clamp					2.8	09452RA20



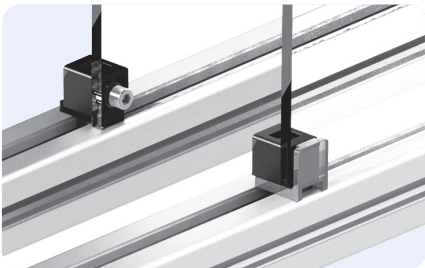
Vario Clamping Block 25 CS



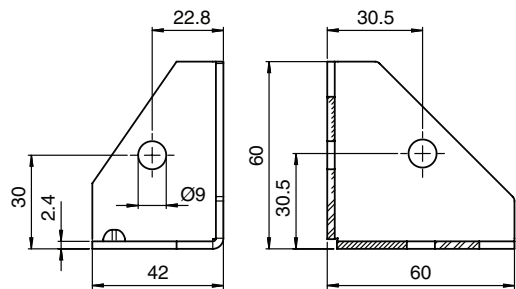
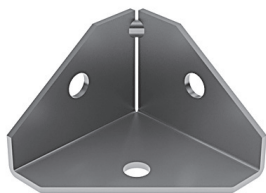
Model	Plastic PA, slot 10
Description	To attach panels safely to aluminum profiles; with screw retainer to comply with Machinery Directive 2006/42/EC; optional screwless mounting with clip clamp
Material	Block: Plastic PA, glass fiber reinforced Clip clamp: Plastic PC Nut: Steel
Color	Block: Black Clip clamp: Transparent colorless
Fixation Span	With clip clamp from 0 to 13 mm
Pack Quantity	100 pieces

Vario Clamping Block 25 CS	A1 (mm)	A2 (Profile) (mm)	T-slot (N)	Thread	Weight (g)	Part Number (Pack Qty = 100)
	8.5	5.8 (6.0)	10	M6	8.8	094522M6CS
Clip clamp					2.8	09452RA20

10

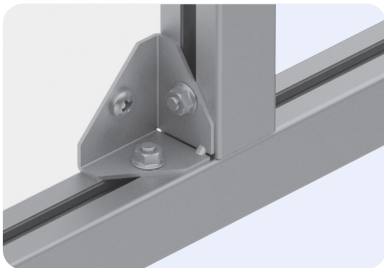


Steel Connection Angle 45/60

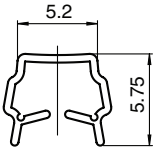


Model	Steel, profile 45 and up
Description	To connect two aluminum profiles at right angles
Material	Steel
Pack Quantity	10 pieces

Steel Connection Angle 45/60	Weight (g)	Part Number (Pack Qty = 10)
 electrostatically discharging	112.0	093WV452V



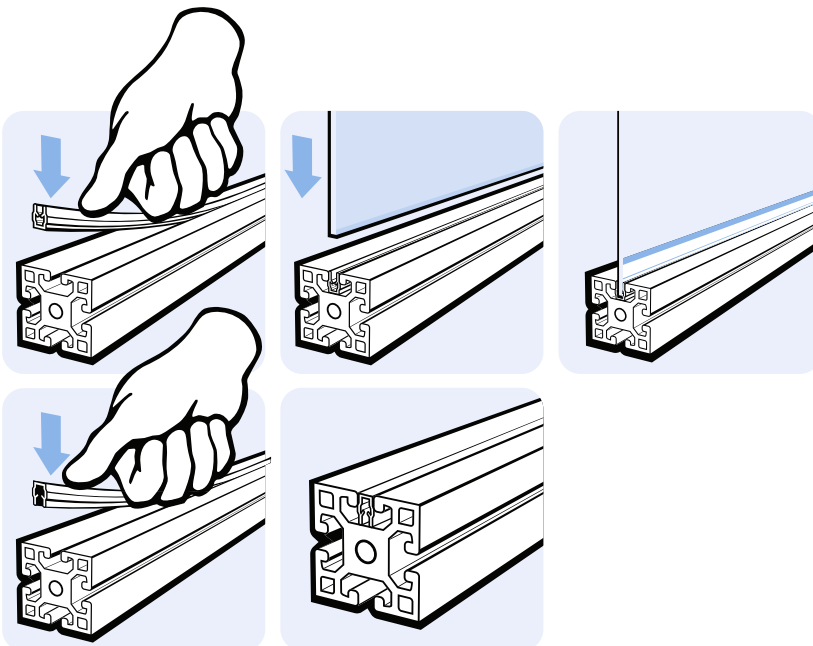
Cover and Reduction Profile, Slot 6



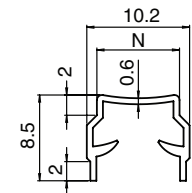
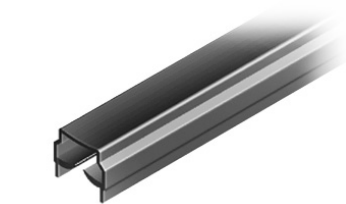
Model	Plastic PP, slot 6
Description	To cover size 6 profile slots and to secure panels with a thickness of 1 - 4 mm
Material	Plastic PP
Cover	Black
Pack Quantity	200 meters (100 pieces at 2 m)
Tip	Please note: You are ordering in meters!

Cover Profile	T-slot (N)	Weight (g/m)	Part Number (Pack Qty = 200 m)
	6	17.0	092246

10

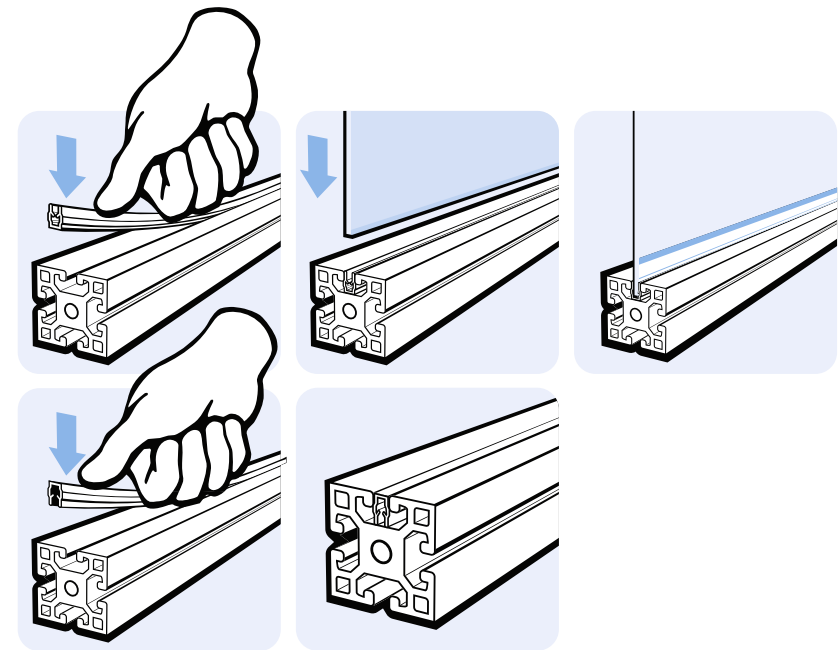


Cover and Reduction Profile, Slot 8

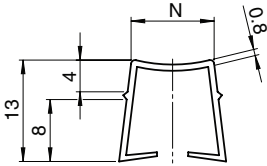
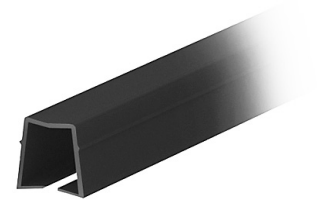


Model	Plastic PP + TPE, slot 8
Description	To cover size 8 profile slots and to secure panels with a thickness of 4 - 6 mm
Material	Plastic PP + TPE
Cover	Black
Pack Quantity	200 meters (100 pieces at 2 m)
Tip	Please note: You are ordering in meters!

Cover and Reduction Profile	T-slot (N)	Weight (g/m)	Part Number (Pack Qty = 200 m)
	8	25.0	092242



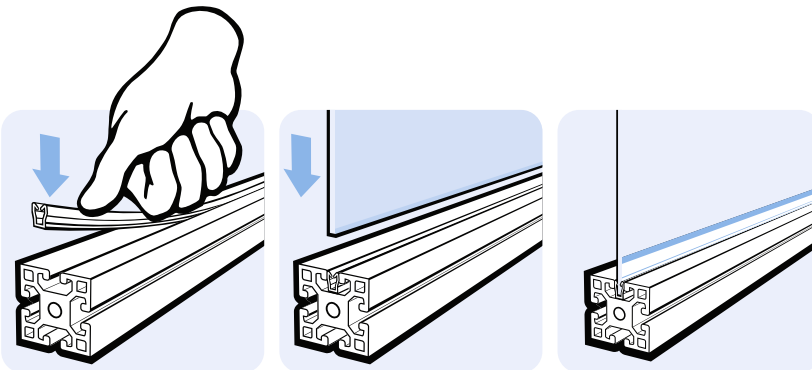
Reduction Profile, Slot 10



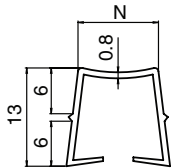
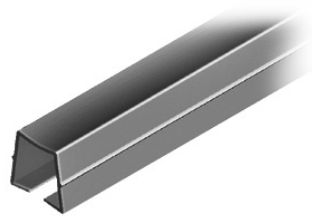
Model	Plastic PP + TPE, slot 10
Description	To secure panels with a thickness of 2 - 6 mm
Material	Plastic PP + TPE
Cover	Black
Pack Quantity	200 meters (100 pieces at 2 m)
Tip	Please note: You are ordering in meters!

Reduction Profile	T-slot (N)	Weight (g/m)	Part Number (Pack Qty = 200 m)
	10	39.0	092260

10

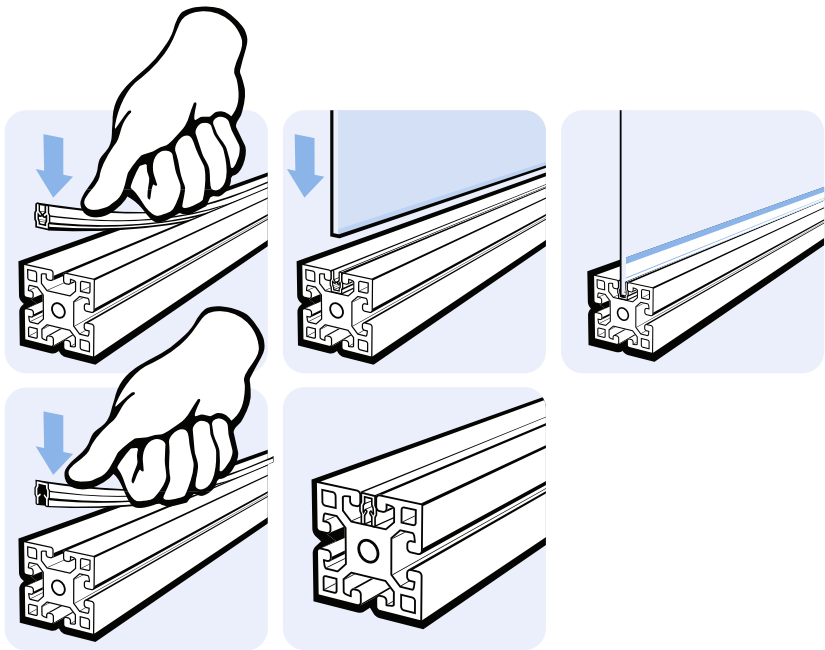


Cover and Reduction Profile, Slot 10

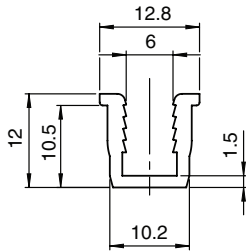


Model	Plastic PE + TPE, slot 10
Description	To cover size 10 profile slots and to secure panels with a thickness of 2 - 6 mm
Material	Plastic PP + TPE
Cover	Black
Pack Quantity	200 meters (100 pieces at 2 m)
Tip	Please note: You are ordering in meters!

Cover and Reduction Profile	T-slot (N)	Weight (g/m)	Part Number (Pack Qty = 200 m)
	10	34.0	092243



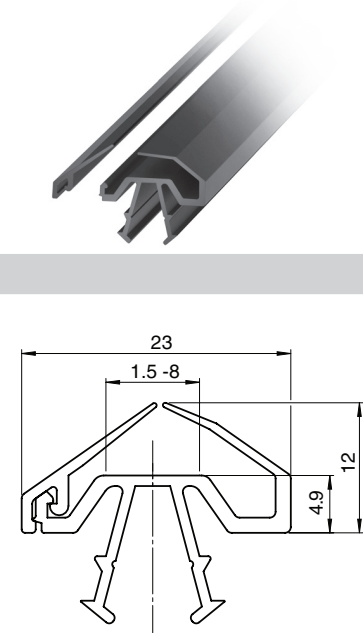
Reduction Profile, Slot 10



Model	Plastic PE, slot 10
Description	To secure panels with a thickness of 6 mm
Material	Plastic PE
Cover	Black
Pack Quantity	100 meters (50 pieces at 2 m)
Tip	Please note: You are ordering in meters!

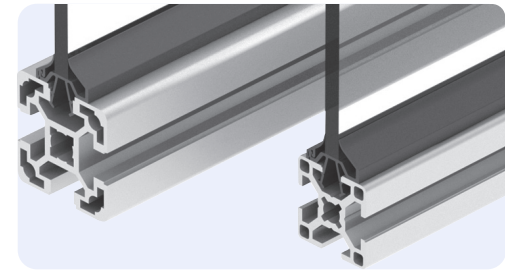
Reduction Profile	T-slot (N)	Weight (g/m)	Part Number (Pack Qty = 100 m)
	10	110.3	092094

Insert Profile PVC

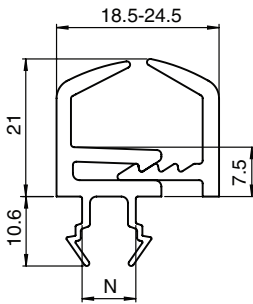


Model	Plastic PVC + TPE, slot 8, 10, subsequently insertable
Description	To insert panels with 1.5 to 8.0 mm thickness subsequently into assembled structures
Material	Plastic PVC + TPE
Cover	Black
Pack Quantity	50 meters (25 pieces at 2 m)
Tip	Please note: You are ordering in meters!

Insert Profile PVC	T-slot (N)	Weight (g/m)	Part Number (Pack Qty = 50 m)
	8 & 10	41.0	092251



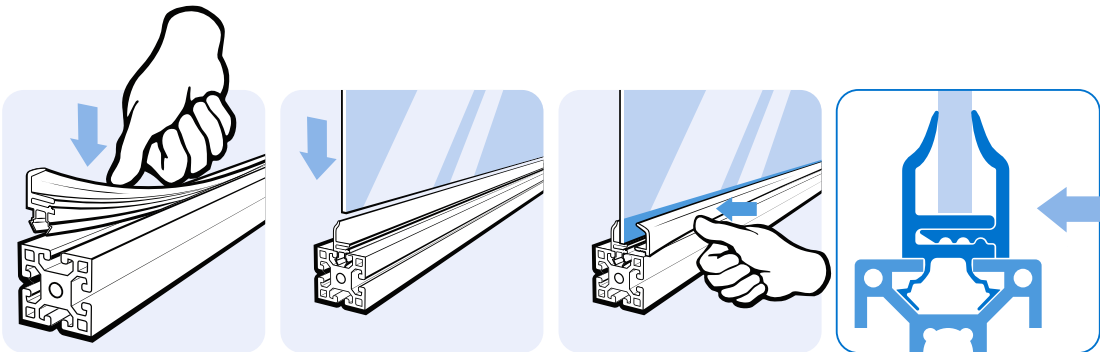
Holder Profile



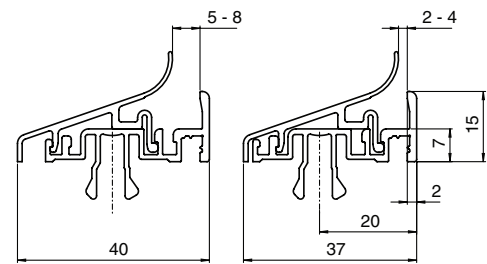
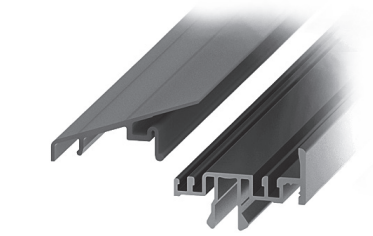
Model	Plastic PP + TPE, slot 10, subsequently insertable
Description	For subsequent insertion of panels of size 2.0 - 10.0 mm, creates a sealed connection against spray water and dust
Material	Plastic PP + TPE
Cover	Black
Pack Quantity	50 meters (25 pieces at 2 m)
Tip	Please note: You are ordering in meters!

Holder Profile	T-slot (N)	Weight (g/m)	Part Number (Pack Qty = 50 m)
	10	43.5	092244

10

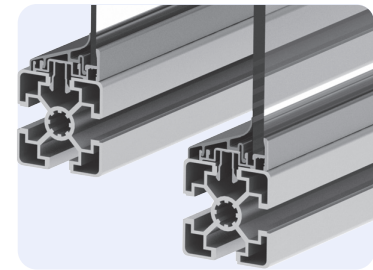


Insert Profile AL

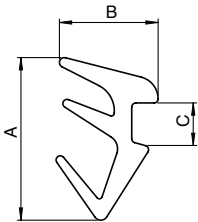
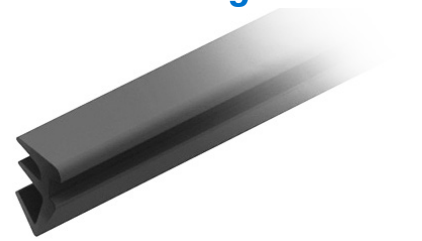


Model	Aluminum and Plastics PP + TPE, slot 10, subsequently insertable
Description	To insert panels with 2.0 to 8.0 mm thickness subsequently into assembled structures
Material	Support strip AL: Aluminum Glazing strip: PP + TPE
Cover	Glazing strip: gray ≈ RAL 7035
Pack Quantity	20 meters (10 pieces at 2 m)
Tip	Please note: You are ordering in meters! For a complete insert profile, please order two products: support strip AL 092252 + glazing strip 092253

Insert Profile AL	T-slot (N)	Weight (g/m)	Part Number (Pack Qty = 20 m)
Support strip AL	10	240.0	092252
Glazing strip	10	60.0	092253



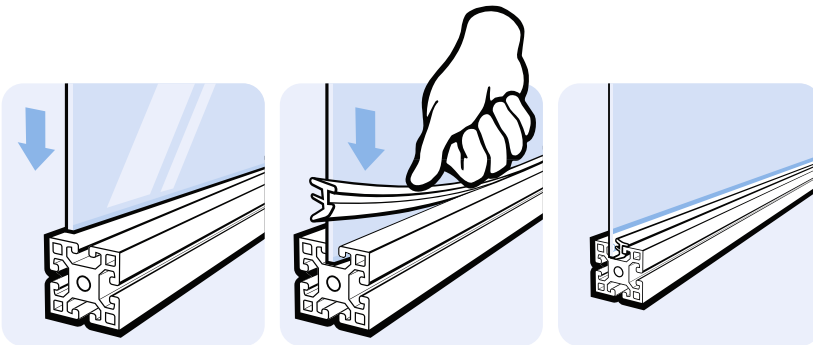
Plug-in Profile



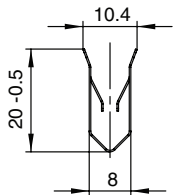
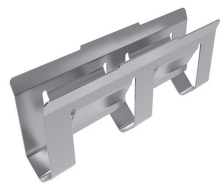
Model	Plastic EPDM, slot 8
Description	To secure panels in the slot and fill the slot; with reduced surface friction to ease the application
Material	Plastic EPDM coated with sliding polymer
Cover	Black
Pack Quantity	100 meters (100 pieces at 1 m)
Tip	Please note: You are ordering in meters! *Best wetted with soapy water prior to assembly

Plug-in Profile	A (mm)	B (mm)	C (mm)	For Panel	T-slot (N)	Weight (g/m)	Part Number (Pack Qty = 100 m)
	11.6	7.0	3.0	4 – 5 (6*) mm	8	37.0	092256

10

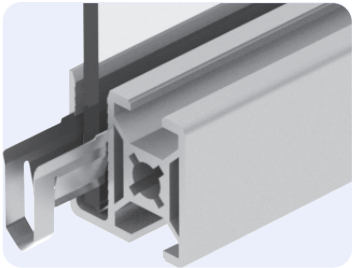


Clamping Spring



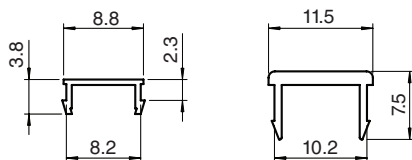
Model	Spring steel
Description	To fix panels 2 - 4 mm in a clamp slot for Ø 3 mm wire mesh frames, or panels 4 - 5 mm in a clamp slot for Ø 4 mm wire mesh frames; recommended number: ca. 4 pcs. per 1 m
Material	Spring steel C60S
Length	45 mm
Pack Quantity	100 pieces at 45 mm

Clamping Spring	Weight (g)	Part Number (Pack Qty = 100)
	3.0	092096



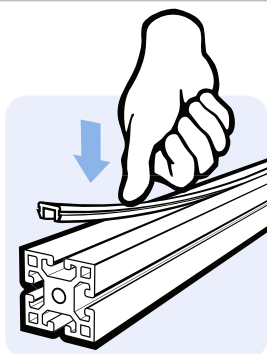


Cover Profile, Slot 8 & 10

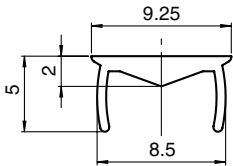


Model	Plastic PP, slot 8, 10
Description	To cover size 8 and 10 profile slots
Material	Plastic PP
Cover	Black, yellow, orange, red, blue, gray, white, natural, aluminum color
Pack Quantity	200 meters (100 pieces at 2 m)
Tip	Please note: You are ordering in meters!

Cover Profile	T-slot (N)	Weight (g/m)	Part Number (Pack Qty = 200 m)
Black	8	10.0	092050
Black, ESD	8	10.0	092050S12
Yellow ≈ RAL 1018	8	10.0	092054
Red ≈ RAL 3020	8	10.0	092050S07
Blue ≈ RAL 5005	8	10.0	092050S04
Gray ≈ RAL 7035	8	10.0	092052
Signal gray ≈ RAL 7004	8	10.0	092050S14
Natural	8	10.0	092050S03
Aluminum color imprint	8	10.0	092050A
Aluminum color imprint, ESD	8	10.0	092050AS01
Black	10	28.1	092041
Black, ESD	10	28.1	092041S08
Yellow ≈ RAL 1018	10	28.1	092044
Yellow ≈ RAL 1023	10	28.1	092044S01
Orange ≈ RAL 2004	10	28.1	092043
Red ≈ RAL 3020	10	28.1	092041S03
Blue ≈ RAL 5005	10	28.1	092041S06
Gray ≈ RAL 7035	10	28.1	092042
White ≈ RAL 9003	10	28.1	092041S05
Signal gray ≈ RAL 7004	10	28.1	092041S21
Natural	10	28.1	092041S13
Aluminum color imprint	10	28.1	092041A
Aluminum color imprint, ESD	10	28.1	092041AS01

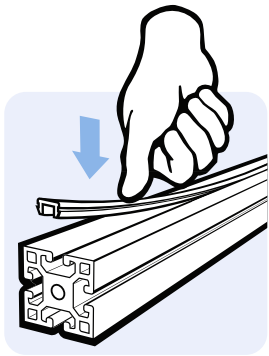


Aluminum Cover Profile, Slot 8

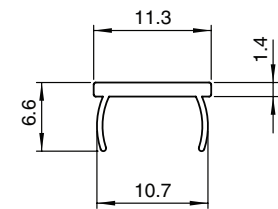
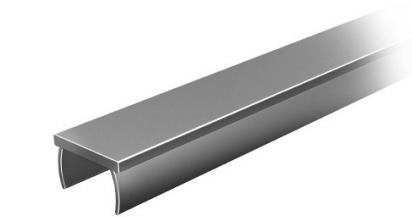


Model	Aluminum, slot 8
Description	To cover T-slots with 8 mm width and a 4.5 mm profile web
Material	Aluminum, anodized
Pack Quantity	50 meters (25 pieces at 2 m)
Tip	Please note: You are ordering in meters!

Aluminum Cover Profile	T-slot (N)	Weight (g/m)	Part Number (Pack Qty = 50 m)
	8	43.0	092071



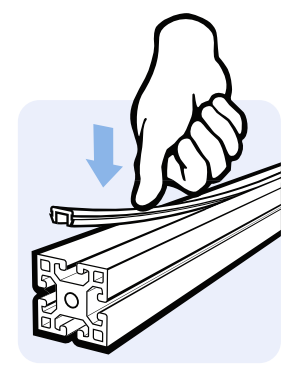
Aluminum Cover Profile, Slot 10



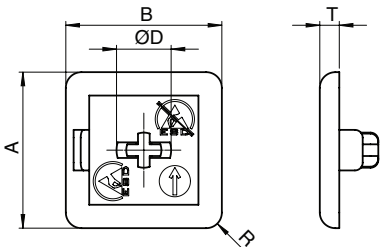
Model	Aluminum, slot 10
Description	To cover T-slots with 10 mm width and a 6 mm profile web
Material	Aluminum, anodized
Pack Quantity	50 meters (25 pieces at 2 m)
Tip	Please note: You are ordering in meters!

Aluminum Cover Profile	T-slot (N)	Weight (g/m)	Part Number (Pack Qty = 50 m)
	10	56.5	092070

11

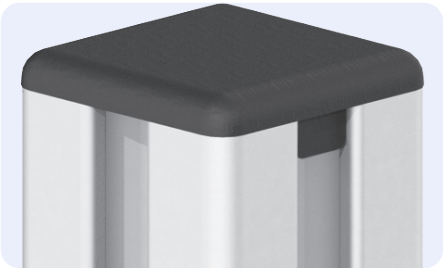


Cover Cap for 20 mm Series Profiles

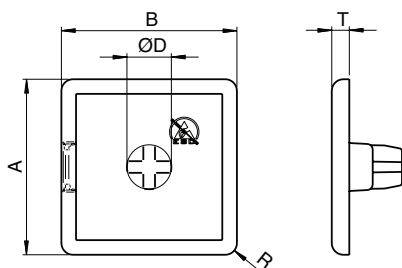


Model	20 mm modular dimension
Description	To cover the end of the profile
Material	Plastic PA, glass fiber reinforced
Color	Black, Signal gray ≈ RAL 7004
Pack Quantity	See below

Dimensions A x B (mm)	Cover Cap	ØD (mm)	R (mm)	T (mm)	T-slot (N)	Description	Part Number	Pack Qty
11 x 20	Black	3.3	2.0	3.0	8	3 pins	091346	20
11 x 20	Gray	3.3	2.0	3.0	8	3 pins	091346S01	20
20 x 20	Black	5.7 (5.5)	1.5	2.5	6	1 cross	091332	100
20 x 20	 Black	5.7	1.5	2.5	6	1 cross	091332S02	100
20 x 20	Gray	5.7	1.5	2.5	6	1 cross	091332S03	100



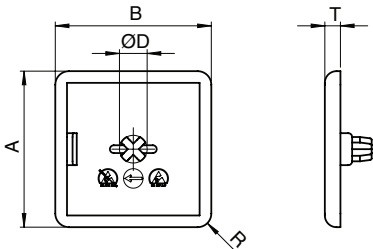
Cover Cap for 30 mm Series Profiles



Model	30 mm modular dimension
Description	To cover the end of the profile
Material	Plastic PA, glass fiber reinforced
Color	Black, Signal gray ≈ RAL 7004
Pack Quantity	100 pieces

Dimensions A x B (mm)	Cover Cap	ØD (mm)	R (mm)	T (mm)	T-slot (N)	Description	Part Number (Pack Qty = 100)
30 x 30	Black	7.6 (7.3)	3.0	4.0	8	1 cross	091027
30 x 30	Gray	7.6 (7.3)	2.0	3.0	8	1 cross	091371S01
30 x 30	Black	4.0	2.0	3.0	8	With hole Ø 8.5 mm, 4 pins	091359
30 x 30	 Black	4.0	2.0	3.0	8	With hole Ø 8.5 mm, 4 pins	091359S01
30 x 30	Gray	4.0	2.0	3.0	8	With hole Ø 8.5 mm, 4 pins	091359S02
30 x 30R R25 - 90°	Black	10.8 (10.0)	2.0	3.0	8	1 cross	091344
30 x 30R R25 - 90°	 Black	10.8 (10.0)	2.0	3.0	8	1 cross turned 45°	091344S01
30 x 30R R25 - 90°	Gray	8.2	2.0	3.0	8	1 cross turned 45°	091344S02
30 x 45	Black	8.4 (7.3)	2.0	3.0	8 / 10	4 pins	091370
30 x 45	 Black	8.4 (7.3)	2.0	3.0	8 / 10	4 pins	091370S01
30 x 45	Gray	8.4 (7.3)	2.0	3.0	8 / 10	4 pins	091370S02
30 X 60	Black	7.6 (7.3)	3.0	4.0	8	2 crosses	091179
30 x 60	 Black	7.6 (7.3)	3.0	4.0	8	2 crosses	091179S01
30 x 60	Gray	7.6 (7.3)	3.0	4.0	8	2 crosses	091179S04

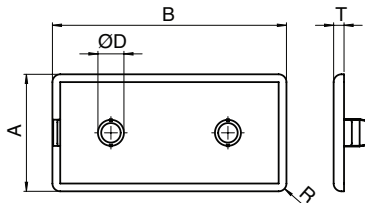
Cover Cap for 40 mm Series Profiles



Model	40 mm modular dimension
Description	To cover the end of the profile
Material	Plastic PA, glass fiber reinforced
Color	Black, Signal gray ≈ RAL 7004
Pack Quantity	See below

Dimensions A x B (mm)	Cover Cap	ØD (mm)	R (mm)	T (mm)	T-slot (N)	Description	Part Number	Pack Qty
40 x 40	Black	10.2 (10.0)	2.5	4.0	10	1 cross	091046	100
40 x 40	 Black	10.4 (10.0)	3.0	4.0	10	1 pin for core hole	091345S01	100
40 x 40	Gray	10.2 (10.0)	2.5	4.0	10	1 cross	091046S06	100
40 x 40R R33.3 - 90°	Gray	10.4 (10.0)	3.0	4.0	10	1 pin for core hole	091345S02	100
40 x 80	Black	10.1 (10.0)	3.0	4.0	10	2 crosses	091137	50

Cover Cap for 45 mm Series Profiles



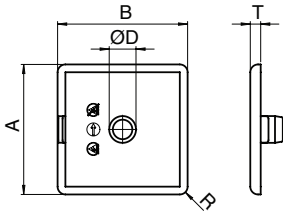
Model	45 mm modular dimension
Description	To cover the end of the profile
Material	Plastic PA, glass fiber reinforced
Color	Black, Signal gray ≈ RAL 7004
Pack Quantity	See below

Dimensions A x B (mm)	Cover Cap	ØD (mm)	R (mm)	T (mm)	T-slot (N)	Description	Part Number	Pack Qty
22.5 x 45	Black	4.0	3.0	4.0	10	4 pins	091002	100
22.5 x 45	Gray	4.0	3.0	4.0	10	4 pins	091002S01	100
45 x 45	Black	10.4 (10.0)	4.0	4.0	10	1 pin for core hole	091011	100
45 x 45	 Black	10.4 (10.0)	4.0	4.0	10	1 pin for core hole	091011S03	100
45 x 45	Gray	10.4 (10.0)	4.0	4.0	10	1 pin for core hole	091011S14	100
45 x 45	Black	4.0	3.0	4.0	10	With hole Ø 17.0 mm, 4 pins 4.3	091015	100
45 x 45	 Black	4.0	3.0	4.0	10	With hole Ø17.0 mm, 4 pins 4.3	091015S02	100
45 x 45	Gray	4.0	3.0	4.0	10	With hole Ø 17.0 mm, 4 pins 4.3	091015S03	100
45 x 45R R37.5 - 90°	Black	10.0	3.0	4.0	10	1 pin for core hole	091130	100
45 x 45R R37.5 - 90°	Gray	10.0	3.0	4.0	10	1 pin for core hole	091130S03	100
45 x 60	Black	10.8 (10.0)	3.0	4.0	10	1 pin for core hole	091017	100
45 x 60	Gray	10.8 (10.0)	3.0	4.0	10	1 pin for core hole	091017S04	100
45 x 60	Black	(4.0)	3.0	4.0	10	With hole Ø 18.3 mm, 4 pins 4.3	091083	100
45 x 60	 Black	(4.0)	3.0	4.0	10	With hole Ø 18.3 mm, 4 pins 4.3	091083S01	100
45 x 60	Gray	(4.0)	3.0	4.0	10	With hole Ø 18.3 mm, 4 pins 4.3	091083S02	100
45 x 90	Black	10.4 (10.0)	3.0	4.0	10	2 pins for core hole	091006	10
45 x 90	Gray	10.4 (10.0)	3.0	4.0	10	2 pins for core hole	091006S07	10

Cover Cap for 50 mm & 60 mm Series Profile



50 mm SERIES COVER CAPS

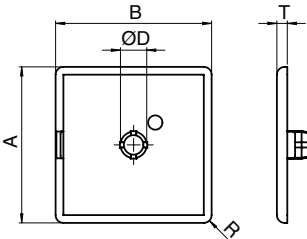


Model	50 mm modular dimension
Description	To cover the end of the profile
Material	Plastic PA, glass fiber reinforced
Color	Black, Signal gray ≈ RAL 7004
Pack Quantity	See below

Dimensions A x B (mm)	Cover Cap	ØD (mm)	R (mm)	T (mm)	T-slot (N)	Description	Part Number	Pack Qty
50 x 50	Black	10.3 (10.0)	3.0	4.0	10	1 pin for core hole	091028	100
50 x 50	 Black	10.3 (10.0)	3.0	4.0	10	1 pin for core hole	091028S03	100
50 x 50	Gray	10.3 (10.0)	3.0	4.0	10	1 pin for core hole	091028S04	100
50 x 100	Black	10.3 (10.0)	3.0	4.0	10	2 pins for core hole	091110	10

11

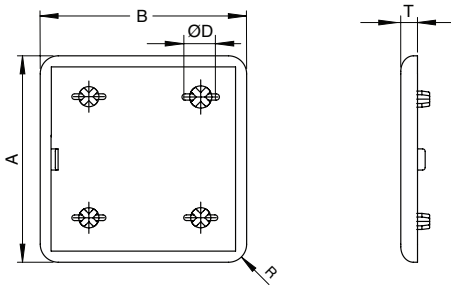
60 mm SERIES COVER CAPS



Model	60 mm modular dimension
Description	To cover the end of the profile
Material	Plastic PA, glass fiber reinforced
Color	Black, Signal gray ≈ RAL 7004
Pack Quantity	100 pieces

Dimensions A x B (mm)	Cover Cap	ØD (mm)	R (mm)	T (mm)	T-slot (N)	Description	Part Number (Pack Qty = 100)
60 x 60	Black	10.6 (10.0)	3.0	4.0	10	1 pin for core hole	091021
60 x 60	Gray	10.6 (10.0)	3.0	4.0	10	1 pin for core hole	091021S06

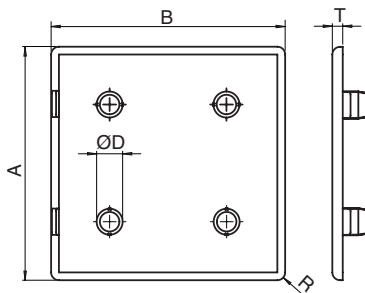
Cover Cap for 80 mm & 90 mm Series Profiles



Model	80 mm modular dimension
Description	To cover the end of the profile
Material	Plastic PA, glass fiber reinforced
Color	Black, Signal gray ≈ RAL 7004
Pack Quantity	10 pieces

Dimensions A x B (mm)	Cover Cap	ØD (mm)	R (mm)	T (mm)	T-slot (N)	Description	Part Number (Pack Qty = 10)
80 x 80	Black	10.4 (10.0)	3.0	4.0	10	4 crosses	091135
80 x 80	 Black	10.4 (10.0)	3.0	4.0	10	4 crosses	091135S01
80 x 80	Gray	10.4 (10.0)	3.0	4.0	10	4 crosses	091135S02

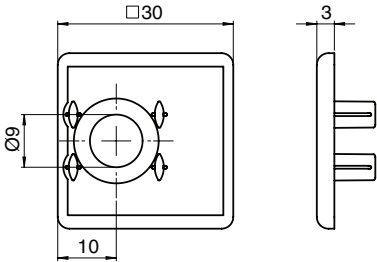
11



Model	90 mm modular dimension
Description	To cover the end of the profile
Material	Plastic PA, glass fiber reinforced
Color	Black, Signal gray ≈ RAL 7004
Pack Quantity	10 pieces

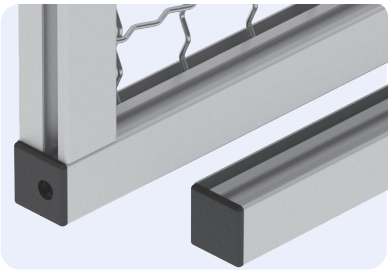
Dimensions A x B (mm)	Cover Cap	ØD (mm)	R (mm)	T (mm)	T-slot (N)	Description	Part Number (Pack Qty = 10)
90 x 90H	Black	15.1	3.0	4.0	10	4 support ribs	091207
90 x 90H	 Black	15.1	3.0	4.0	10	4 support ribs	091207S04
90 x 90H	Gray	15.1	3.0	4.0	10	4 support ribs	091207S05
90 x 90H	Black		3.5	4.0	10	4 support ribs	091024
90 x 90L	Black	10.2 (10.0)	5.0	4.0	10	4 pins for core hole, 4 pins	091030
90 x 90L	 Black	10.2 (10.0)	5.0	4.0	10	4 pins for core hole, 4 pins	091030S03
90 x 90L	Gray	10.2 (10.0)	5.0	4.0	10	4 pins for core hole, 4 pins	091030S04

Cover Cap for Wire Mesh Frame Profiles

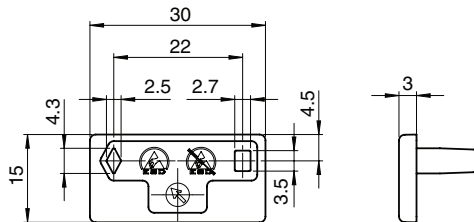
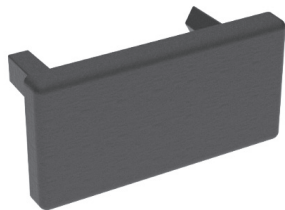


Model	Plastic PA
Description	To seal the end openings of conduit systems
Material	Plastic PA, glass fiber reinforced
Color	Black, Gray ≈ RAL 7004
Pack Quantity	100 pieces

Cover Cap for Wire Mesh Frame Profiles	R (mm)	T (mm)	Description	Part Number (Pack Qty = 100)
Black, with hole	2.0	3.0	4 pins	091337
Black, without hole	2.0	3.0	4 pins	091337S01
Gray, with hole	2.0	3.0	4 pins	091337S04
Gray, without hole	2.0	3.0	4 pins	091337S05

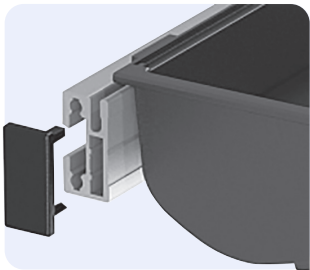


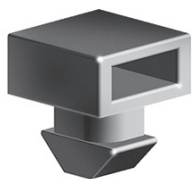
Cover Cap for Suspension Profile



Model	Plastic PA
Description	To seal the end openings of suspension profiles
Material	Plastic PA, carbon fiber reinforced
Color	Black
Pack Quantity	20 pieces

Cover Cap for Suspension Profiles	Weight (g)	Part Number (Pack Qty = 20)
 ESD	1.6	091374S01

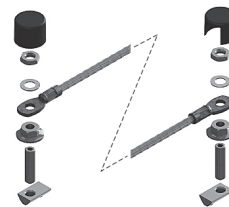




Cable Binding Blocks (Cable Brackets)
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Quick Connector for Cable Ducts
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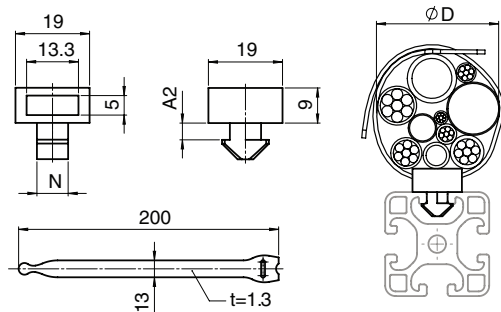
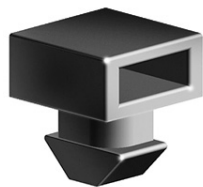
ESD Grounding
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lean  frame
Application Ideas



Wall Mount HEIJUNKA

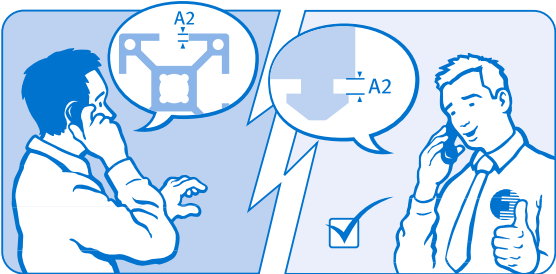
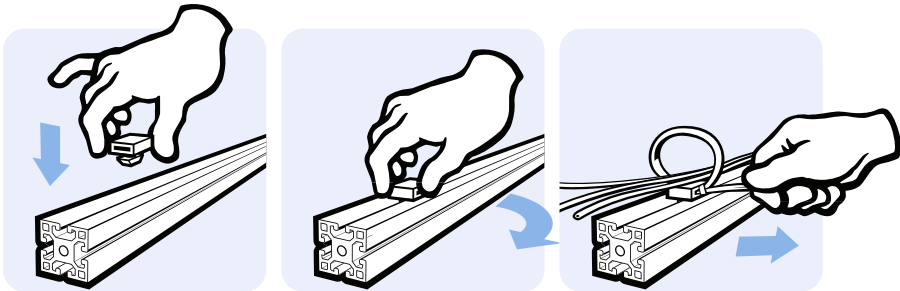
Cable Binding Block



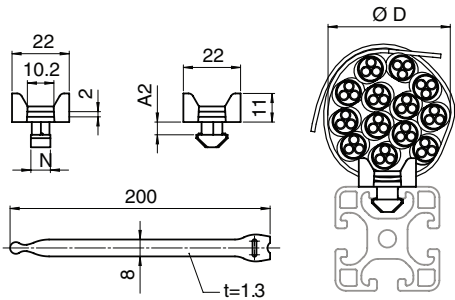
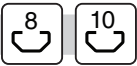
Model	Plastic PA, slot 8, 10
Description	To secure cables to aluminum profiles; can be mounted into the slot by a quarter turn
Material	Cable binding block: Plastic PA, glass fiber reinforced Velcro® strip: Plastic PE (hook), Plastic PA (loop)
Color	Black
Pack Quantity	100 pieces

Cable Binding Block	A2 (Profile) (mm)	T-slot (N)	ØD (mm)	Weight (g)	Part Number (Pack Qty = 100)
	1.8 (2.2)	8		3.4	093058
	5.9 (6.0)	10		4.0	093050
With Velcro® strip	5.9 (6.0)	10	≤ 50	5.7	093050S03

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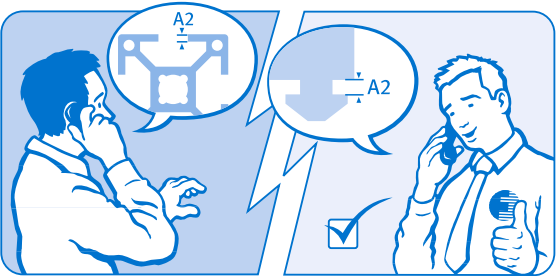


Cross Cable Binding Block

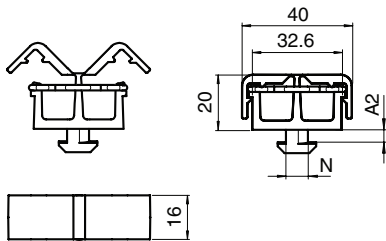


Model	Plastic PA, slot 8, 10
Description	To secure cables to aluminum profiles in two directions; can be mounted into the slot by a quarter turn
Material	Cable binding block: Plastic PA, glass fiber reinforced Velcro® strip: Plastic PE (hook), Plastic PA (loop)
Color	Black
Pack Quantity	100 pieces

Cross Cable Binding Block	A2 (Profile) (mm)	D (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 100)
	2.1 (2.2)		8	3.6	093258
	5.8 (6.0)		10	4.4	093249
With Velcro® strip	5.8 (6.0)	≤ 50	10	6.1	093249S03



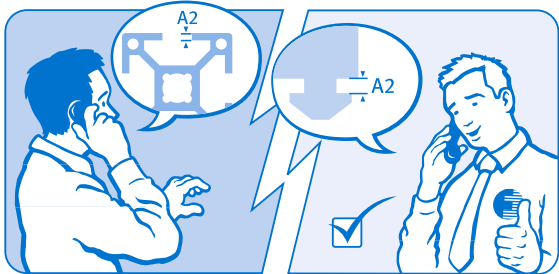
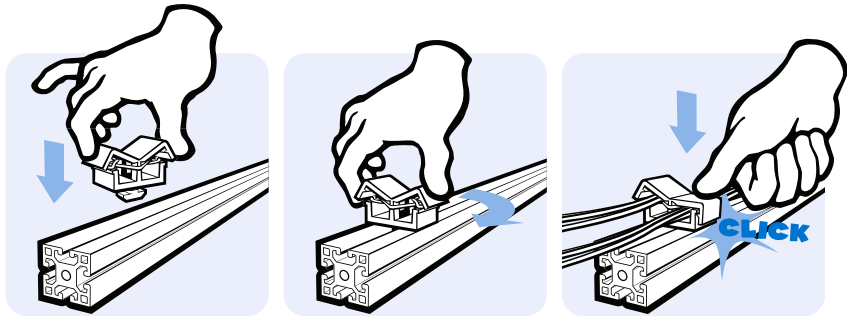
Clip Cable Binder with Hammer, 2 Chambers



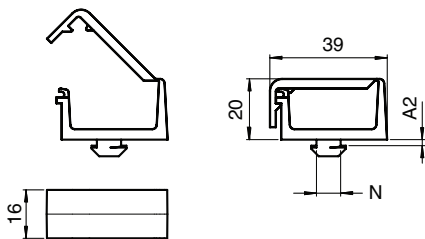
Model	2 chamber fixation for cables and tubes
Description	To fix cables without the need for cable ties, can be opened and closed again; can be mounted into the slot by a quarter turn
Material	Clip: Plastic PA Rubber: FPM 70
Color	Black
Pack Quantity	10 pieces

Clip Cable Binder with Hammer	A2 (Profile) (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
	2.0 (2.2)	8	7.0	093403N08
	5.9 (6.0)	10	7.2	093406N10

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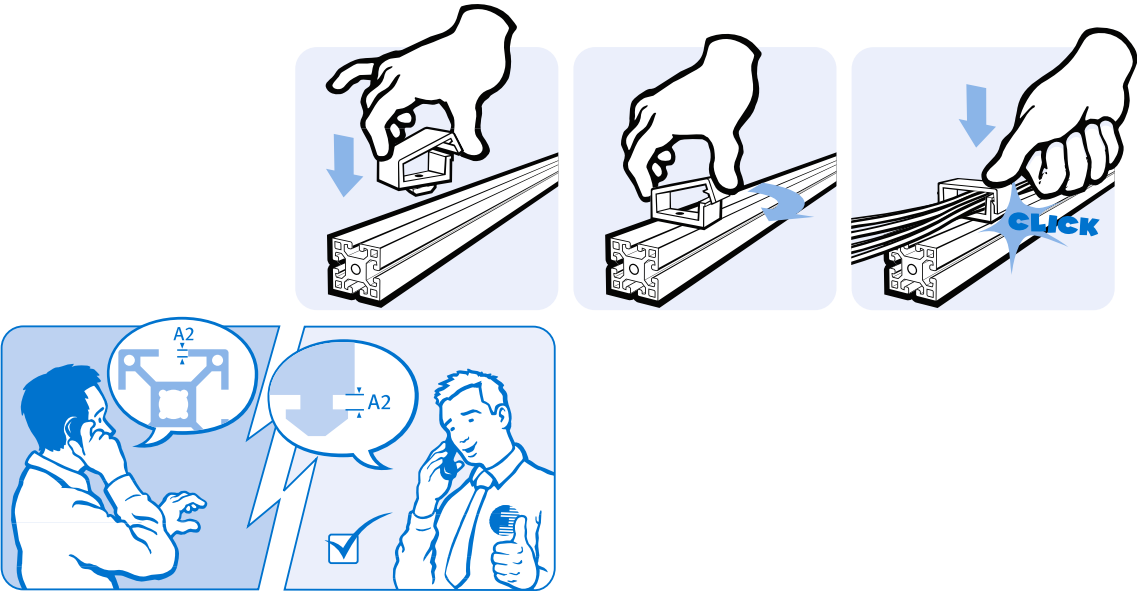


Clip Cable Binder with Hammer, 1 Chamber

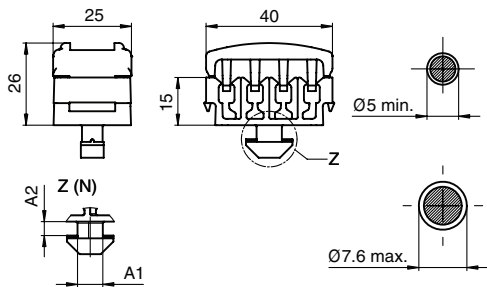


Model	1 chamber
Description	To fix cables without the need for cable ties, can be opened and closed again; can be mounted into the slot by a quarter turn
Material	Plastic PA
Color	Black
Pack Quantity	10 pieces

Clip Cable Binder with Hammer	A2 (Profile) (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
	2.0 (2.0)	8	7.0	093504N08
	5.9 (6.0)	10	7.0	093506N10



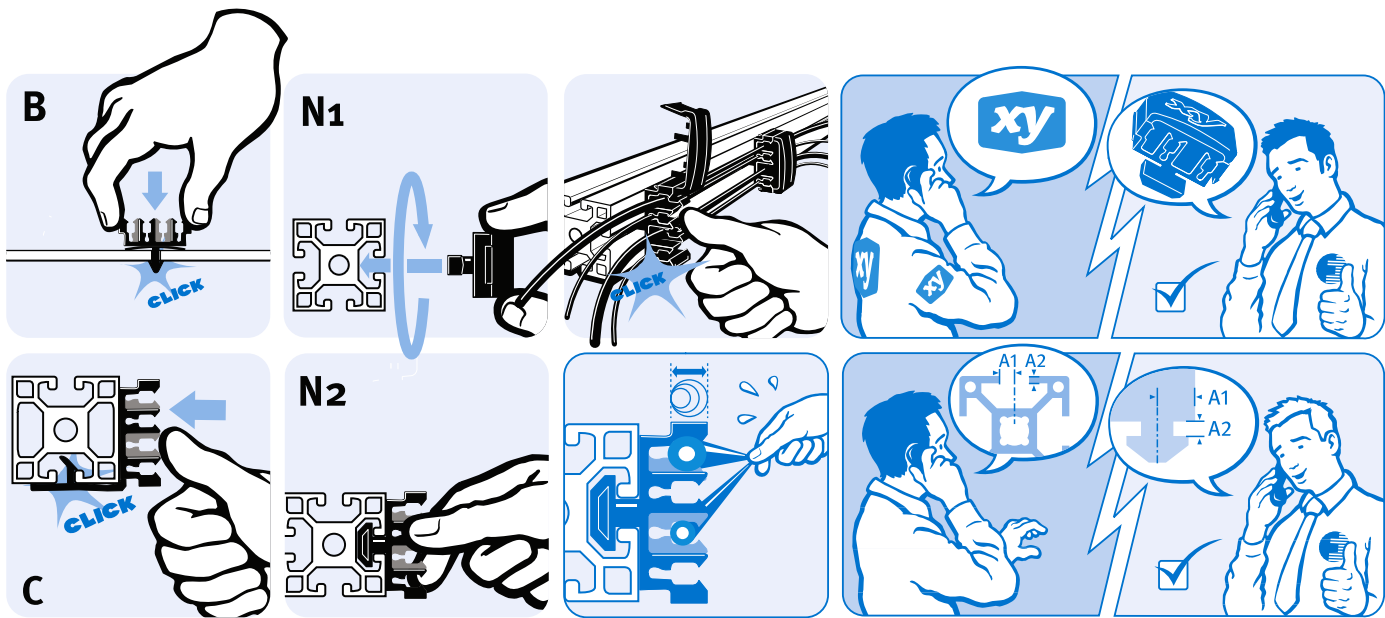
Snap-Cable-Binding with Hammer



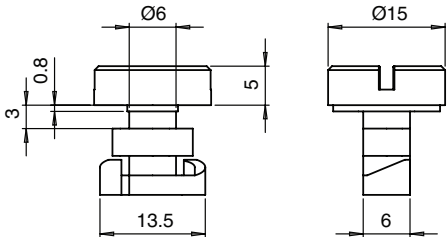
Model	For Ø 5.0 - 7.6 mm outside diameter
Description	To attach cables securely and quickly without cable ties. Provides strain relief and can be mounted into the slot by a quarter turn
Material	Plastic PA
Pack Quantity	100 pieces

Cover Cap	Snap-cable-binding	A1 (mm)	A2 (profile) (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 100)
Without	(N) Hammer for slot	10.0	5.7 (6.0)	10	10.4	093610N10
With	(N) Hammer for slot	10.0	5.7 (6.0)	10	10.4	093610AN10

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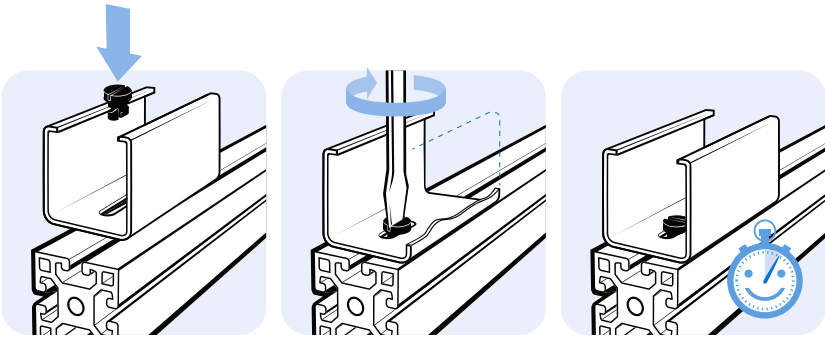


Quick Connector

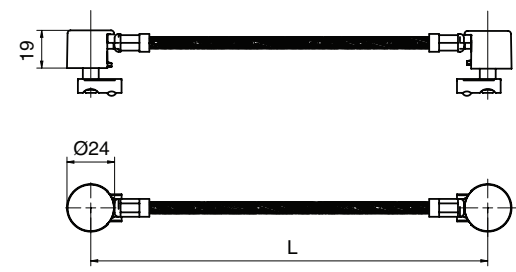
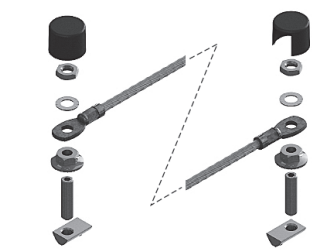


Model	For cable ducts
Description	To fasten cable ducts to aluminum profiles
Material	Plastic PA, glass fiber reinforced
Color	Black
Pack Quantity	100 pieces

Quick Connector	T-slot (N)	Weight (g)	Part Number (Pack Qty = 100)
	10	3.0	093QFN10

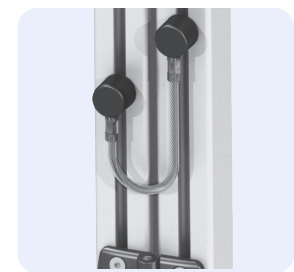


Grounding Connector Set



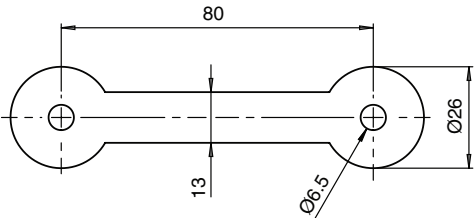
Model	Slot 10
Description	To electrically connect movable parts to each other as flexible grounding wire, and to create  electrostatically conductive connections between juxtaposed frames as equipotential bonding; large conductor cross-section (16 mm²), current carrying capacity 120 A max.
Material	Earth lead: Copper Assembly material: Steel Cover caps: Plastic PA, glass fiber reinforced
Color	Cover caps: Black
Set 2	(Listed in assembly sequence incl. tightening torques): 2 T-slot nuts - slot 10 - M8, 2 threaded pins DIN 916 - M8 x 30 (M = 10 Nm), 2 flanged hexagon nuts DIN 6923 - M8 (M = 34 Nm), 1 earth lead 200 mm, 2 serrated lock washers DIN 6798 - 8.4, 2 hexagon nuts DIN 439 B - M8 (M = 25 Nm), 2 cover caps
Pack Quantity	10 pieces

Grounding Connector Set	L (mm)	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
Set 2	200.0	10	108.0	093099S02



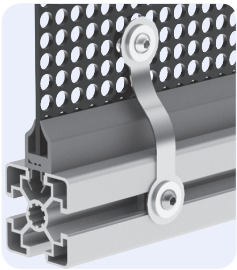
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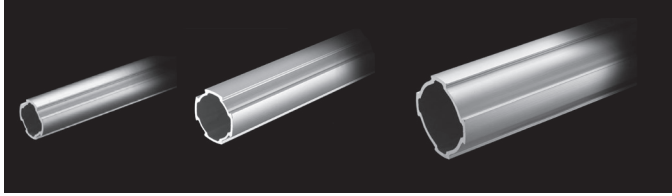
Potential Equalizer Set



Model	Slot 10, stainless steel
Description	To make an  electrostatically discharging connection between panel and aluminum profile
Material	Stainless steel SS304
Set	1 potential equalizer, 1 pan-head screw ISO 7380 - M6 x 12, 1 T-slot nut with spring, M6, 3 washers DIN 9021 - 6.4, 1 flange nut DIN 9023 - M6, 1 pan-head screw ISO 7380 - M6 x 20
Pack Quantity	10 pieces

Potential Equalizer Set	T-slot (N)	Weight (g)	Part Number (Pack Qty = 10)
 ESD	10	39.0	093096S01





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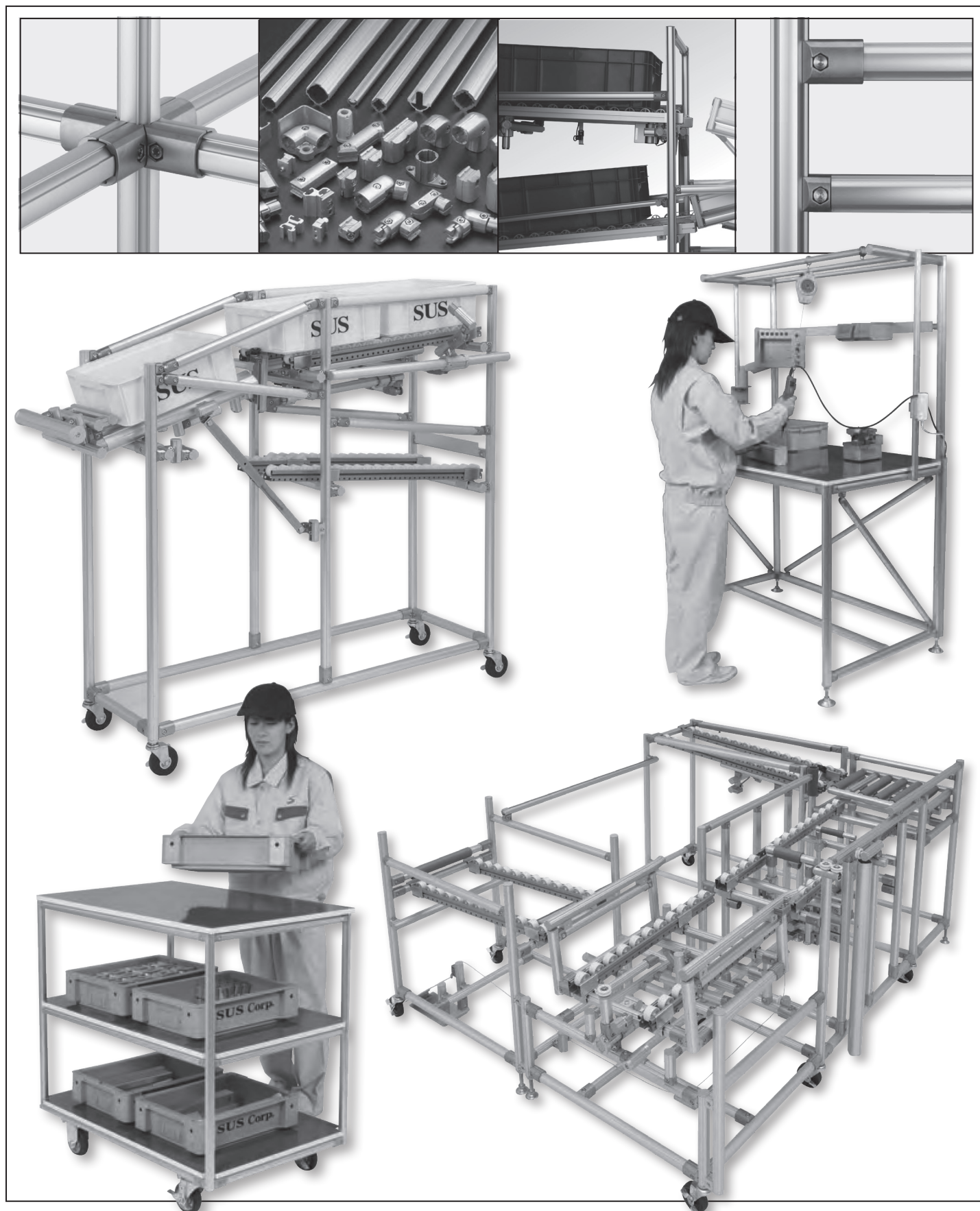
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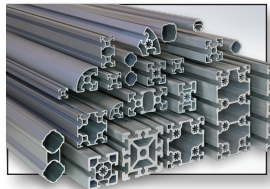
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