

Strebenprofil 45x45L 1N, Aluminium eloxiert, 1000 mm - Bosch Rexroth 3842993738-1000

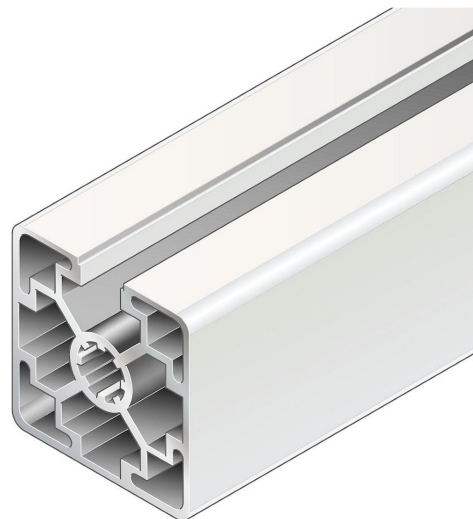
Item no. BRR-3842993738-1000

Manufacturer Bosch Rexroth

Strut profile 45x45L 1N in anodized aluminum with one open slot (slot width 10 mm, 45 mm modular grid) for lightweight frames, machine guards, and workstation systems in the Bosch Rexroth assembly technology range. Supplied at 1000 mm; custom lengths from 50 to 6070 mm available. Mass: 1.8 kg/m.

TECHNICAL DATA

Ausführungsklasse	TEC
Country of Manufacture	Germany
Hinweis	Gemäß der aktuellen Preisstruktur werden für Bestellungen von Profilen mit einer Länge von 1500 mm zusätzliche Kosten in Höhe von 80,00 Euro berechnet.
Weight	0.0099 kg
Zolltarifnummer	76042100



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DESCRIPTION

The 45x45L 1N strut profile is an anodized aluminum extrusion on the 45 mm modular grid, featuring one open longitudinal slot (10 mm width) for T-slot connectors and accessories. It is the base structural element for machine frames, enclosures, and ergonomic workstations built with the Bosch Rexroth modular assembly system. The natural anodize finish provides lasting surface protection without painting.

- Profile surface 6.5 cm² at 1.8 kg/m - efficient stiffness-to-weight ratio for load-bearing frames
- Area moment of inertia I_x 12.6 cm⁴ / I_y 13.5 cm⁴ - near-symmetrical bending performance in both principal axes
- Torsional moment of inertia I_t 10 cm⁴ - high torsional rigidity for long-span structures
- Standard factory machining options M12 / D9.8 / D17 / DB17 available (minimum length applies)
- Custom machining DI / DIS / MT / MTS / MI / MIS / DG available on request
- Supplied length 1000 mm; cut-to-length 50-6070 mm on order; DG_{max} = 45°, L_{min1}/L_{min2} = 378/456 mm

TECHNICAL DATA

Parameter	Value
Cross-section	45x45 mm
Profile type	1N

Parameter	Value
Open slots	1
Profile slot width	10 mm
Modular dimension	45 mm
Length (this item)	1000 mm
Length min / max	50 / 6070 mm
Mass	1.8 kg/m
Profile surface A	6.5 cm ²
Area moment of inertia I _x	12.6 cm ⁴
Area moment of inertia I _y	13.5 cm ⁴
Moment of resistance W _x	5.5 cm ³
Moment of resistance W _y	6.0 cm ³
Torsional moment of inertia I _t	10 cm ⁴
Moment of torsion resistance W _t	5.2 cm ³
Material	Aluminum, anodized
Color	Natural
Standard profile finishing	M12 / D9.8 / D17 / DB17
Customized profile finishing	DI / DIS / MT / MTS / MI / MIS / DG
Packaging unit	1 piece