

Strebenprofil 90x180 M16 - eloxiertes Aluminiumprofil 1000 mm - Bosch Rexroth 3842990417-1000

Item no. BRR-3842990417-1000

Manufacturer Bosch Rexroth

Heavy-section strut profile with 90x180 mm cross-section and 45 mm modular dimension for demanding frame structures and machine enclosures. The anodized aluminum profile provides 12 open slots, M16 machining in all core pulls, and high bending stiffness with an area moment of inertia of 2138.3 cm⁴ in the x-direction. Supplied as a 1000 mm section; lengths from 120 mm to 6000 mm available.

TECHNICAL DATA

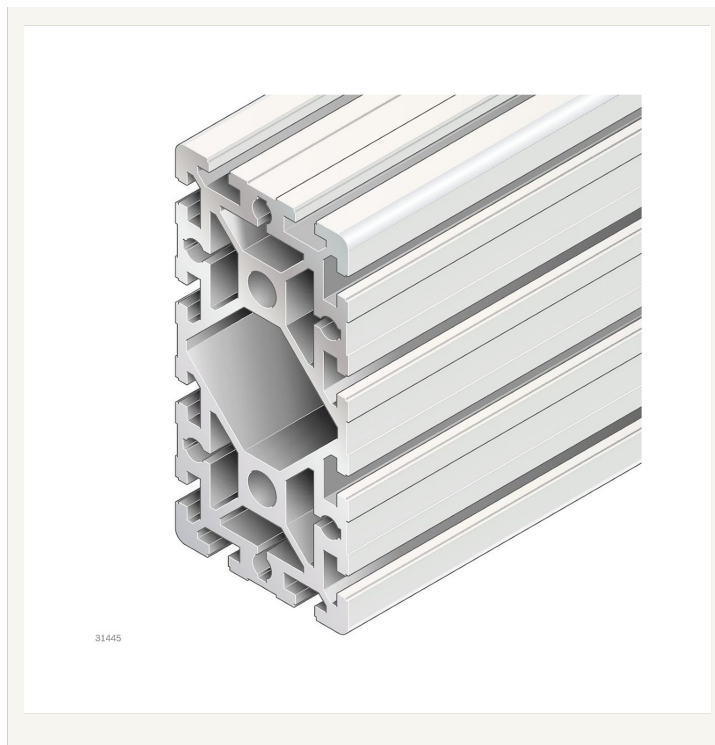
Ausführungsklasse	TEC
Country of Manufacture	Germany
Hinweis	Gemäß der aktuellen Preisstruktur werden für Bestellungen von Profilen mit einer Länge von 1500 mm zusätzliche Kosten in Höhe von 80,00 Euro berechnet.
Weight	0.0099 kg
Zolltarifnummer	76169990

DESCRIPTION

The strut profile 90x180 M16 is a large-format aluminum profile for building load-bearing frames, machine guards, and assembly structures in industrial environments. Its 90x180 mm cross-section, 12 open slots on a 45 mm modular grid, and M16 core-pull drilling in all positions make it suitable for connections subject to high transverse forces and bending moments.

- Area moment of inertia $I_x = 2138.3 \text{ cm}^4$ / moment of resistance $W_x = 237.6 \text{ cm}^3$ - high bending stiffness in the primary load direction
- Area moment of inertia $I_y = 544.3 \text{ cm}^4$ / moment of resistance $W_y = 121 \text{ cm}^3$ - solid lateral stability
- Torsional moment of inertia $I_t = 429 \text{ cm}^4$, torsional moment of resistance $W_t = 64 \text{ cm}^3$ - torsion-resistant construction
- 12 open slots allow flexible attachment of connectors, linear components, and accessories without additional machining
- Profile machining: M16 in all core pulls; D17V and LF in slots A/H and B/G; LF-S in slots D/K and E/J
- Anodized aluminum (color: natural) - corrosion-resistant, lightweight, and precision-extruded
- Profile surface area 63.6 cm², mass 17.2 kg/m - an efficient load-to-weight ratio

TECHNICAL DATA



Property	Value
Cross-section	90x180 mm
Modular dimension	45 mm
Open slots	12
Profile slot	10
Profile type	Standard
Length (this item)	1000 mm
Length min / max	120 mm / 6000 mm
Profile machining	M16: all core pulls; D17V, LF: slots A/H, B/G; LF-S: slots D/K, E/J
Area moment of inertia I _x	2138.3 cm ⁴
Moment of resistance W _x	237.6 cm ³
Area moment of inertia I _y	544.3 cm ⁴
Moment of resistance W _y	121 cm ³
Torsional moment of inertia I _t	429 cm ⁴
Torsional moment of resistance W _t	64 cm ³
Profile surface A	63.6 cm ²
Mass	17.2 kg/m
Material	Aluminum, anodized
Color	Natural
Packaging unit	1