

Strebenprofil 40x160L ESD-geeignet, Aluminium eloxiert, 1000 mm - Bosch Rexroth 3842993146-1000

Item no. BRR-3842993146-1000

Manufacturer Bosch Rexroth

Asymmetric aluminum strut profile with 40x160L cross-section and 10 open slots for high-load frames and structural assemblies. The anodized profile is ESD-rated and comes pre-machined with M12 threads in all core pulls and D17 holes in slots B/J, C/I, D/H and E/G. Supplied as a 1000 mm bar; custom lengths from 80 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

STANDARDS & COMPLIANCE

ESD safe

DESCRIPTION

The 40x160L strut profile is an asymmetric extruded aluminum section from the Bosch Rexroth assembly technology system, designed for load-bearing frames, machine bases and structural assemblies where high bending stiffness along the primary load axis is required. The anodized surface (color: natural) provides corrosion resistance and meets ESD requirements.

- High bending stiffness in the x-direction: area moment of inertia $I_x = 466.7 \text{ cm}^4$, moment of resistance $W_x = 58.3 \text{ cm}^3$ - suited for heavily loaded beams and cantilever spans
- 10 open slots (slot width 10 mm, modular dimension 40 mm) allow connections on all faces using standard connectors, brackets and accessories
- Factory pre-machined: M12 threads in all core pulls, D17 holes in slots B/J, C/I, D/H and E/G - reduces on-site machining effort significantly
- ESD-rated: safe for use in electrostatically sensitive production and assembly environments
- Material: aluminum, anodized - lightweight and corrosion-resistant (profile cross-section $A = 20.5 \text{ cm}^2$, mass 5.5 kg/m)



TECHNICAL DATA

Property	Value
Cross-section	40x160L
Dimensions [mm]	40 x 160
Modular dimension [mm]	40
Profile slot [mm]	10
Open slots	10
Profile type	Standard
Length (this unit) [mm]	1000
Length min [mm]	80
Length max [mm]	6000
Material	Aluminum, anodized
Color	Natural
ESD	Yes
Profile adaption	M12 in all core pulls; D17 in slots B/J, C/I, D/H, E/G
Profile surface A [cm ²]	20.5
Mass m [kg/m]	5.5
Area moment of inertia I _x [cm ⁴]	466.7
Moment of resistance W _x [cm ³]	58.3
Area moment of inertia I _y [cm ⁴]	37.2
Moment of resistance W _y [cm ³]	18.6
Torsional moment of inertia I _t [cm ⁴]	25.8
Moment of torsion resistance W _t [cm ³]	14.6
Packaging unit	1
Recommended accessories	Cover cap 40x80 signal gray, Cover cap 40x80 black