

Strut Profile 45x135L 5N, Anodized Aluminum, 5 Open Slots - Bosch Rexroth 3842993774

Item no. BRR-3842993774

Manufacturer Bosch Rexroth

Asymmetric aluminum strut profile on a 45 mm modular grid with 5 open slots (profile slot 10) for load-bearing frame and support structures. The anodized profile is supplied pre-machined and is available in lengths up to 6,070 mm. Recommended accessories: cover caps 45x45 and 45x90 in signal gray or black ESD.

TECHNICAL DATA

Country of Manufacture **Germany**

HS-Code **76169990**

Note **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 **11.5 kg**


STANDARDS & COMPLIANCE

ESD safe

DESCRIPTION

The Bosch Rexroth strut profile 45x135L 5N is an asymmetric aluminum profile in the 45 mm modular system with 5 open slots. It is designed for demanding support and frame structures in mechanical and plant engineering where high bending stiffness in the y-direction is required. The profile is delivered pre-machined and can be adapted with standard or customized profile finishing.

- High bending stiffness: area moment of inertia $I_y = 274.4 \text{ cm}^4$ and moment of resistance $W_y = 40.7 \text{ cm}^3$ for load-bearing structures
- Wide length range: supplied from 50 mm to 6,070 mm; customized finishing up to 5,400 mm
- Versatile finishing options: standard (M12, D9.8, D17, DB17, F1) and customized (DI, DIS, MT, MTS, MI, MIS, DG)
- Anodized surface: corrosion-resistant, natural color, suitable for industrial environments
- System-compatible: 45 mm modular dimension, profile slot 10, integrates into the Bosch Rexroth assembly system

TECHNICAL DATA

esd.equipment

Keldersstr. 15

42697 Solingen, Deutschland

VAT ID: DE269659389

Phone: +49 212 38340680

shop@esd-equipment.com

esd.equipment

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Property	Value
Cross-section	45x135L 5N
Dimensions	45 x 135 mm
Profile type	5N
Modular dimension	45 mm
Profile slot	10
Open slots	5
Color	Natural
Material	Aluminum, anodized
Mass	4.7 kg/m
Profile surface [A]	17.3 cm ²
Length min [L min]	50 mm
Length max [L max]	6,070 mm
Customized finishing max [L max i]	5,400 mm
Condition on delivery	Profile adaption
Packaging unit	1
Area moment of inertia I _x	38.6 cm ⁴
Area moment of inertia I _y	274.4 cm ⁴
Moment of resistance W _x	17.6 cm ³
Moment of resistance W _y	40.7 cm ³
Torsional moment of inertia I _t	32.5 cm ⁴
Moment of torsion resistance W _t	10.9 cm ³
Notice	DGmax = 45°, Lmin1 / Lmin2 = 534 / 768 mm, standard profile finishing at specified slots
Standard profile finishing	M12 / D9.8 (B,C,D,F,G,H) / D17 (B,C,D,F,G,H) / DB17 / F1 (A,E)
Customized profile finishing	DI / DIS / MT / MTS / MI / MIS / DG
Recommended accessories	Cover cap 45x45 signal gray, Cover cap 45x90 signal gray, Cover cap 45x45 black ESD, Cover cap 45x90 black ESD