

Strebenprofil 45x90, 1000 mm, ESD-geeignet, Aluminium eloxiert - Bosch Rexroth 3842990300-1000

Item no. BRR-3842990300-1000

Manufacturer Bosch Rexroth

Asymmetric aluminum strut profile with a 45x90 mm cross-section and 6 open slots for high bending stiffness in the x-direction ($I_x 124.6 \text{ cm}^4$). ESD-compatible, anodized, and available in variable lengths from 50 to 6070 mm. Designed for workstation systems, machine frames, and guarding structures in the Bosch Rexroth 45 modular profile system.

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

STANDARDS & COMPLIANCE

ESD safe

DESCRIPTION

The 45x90 strut profile is an asymmetric extruded aluminum section from the Bosch Rexroth modular assembly system, serving as the primary structural element for frames, enclosures, and guarding wherever greater bending stiffness is needed along one axis. An anodized finish, ESD compatibility, and cut-to-length availability make it equally suited to electronics manufacturing environments and general assembly applications.

- High bending stiffness in the x-direction: area moment of inertia $I_x 124.6 \text{ cm}^4$ and moment of resistance $W_x 27.7 \text{ cm}^3$ - suited to horizontally loaded spans and beams
- 6 open slots (slot width 10 mm, modular dimension 45 mm) accept connectors, brackets, and accessories without drilling
- ESD-compatible per manufacturer specification - suitable for use in electrostatic protected areas (EPA)
- Anodized aluminum: corrosion-resistant, lightweight (profile cross-section 15.4 cm^2), low maintenance
- Variable length 50 to 6070 mm, packaging unit 1 piece - cut-to-length ordering available
- Profile machining options: M12/M16 in all core bores; D17 in slots B/F and C/E; D17V in slots A/D



TECHNICAL DATA

Property	Value
Cross-section	45x90 mm
Modular dimension	45 mm
Profile slot	10 mm
Open slots	6
Profile type	Standard
Material	Aluminum, anodized
Color	Natural
ESD	Yes
Length min.	50 mm
Length max.	6070 mm
Mass	4.2 kg/m
Profile surface [A]	15.4 cm ²
Area moment of inertia X [Ix]	124.6 cm ⁴
Moment of resistance X [Wx]	27.7 cm ³
Area moment of inertia Y [Iy]	32.8 cm ⁴
Moment of resistance Y [Wy]	14.6 cm ³
Torsional moment of inertia [It]	15.4 cm ⁴
Moment of torsion resistance [Wt]	6.61 cm ³
Profile machining	M12, M16: all core bores; D17: slots B/F, C/E; D17V: slots A/D
Recommended accessories	Cover cap 45x90 black/signal gray, cover cap with hole 45x90 black/signal gray
Packaging unit	1 piece