

# Strut Profile 80x160L, ESD-Suitable, Anodized Aluminum - Bosch Rexroth 3842993673

Item no. BRR-3842993673

Manufacturer Bosch Rexroth

The 80x160L strut profile is an anodized aluminum structural section with 12 open slots, 40 mm modular dimension, and ESD suitability - designed for demanding frames and support structures in assembly and automation systems. An area moment of inertia of 850.7 cm<sup>4</sup> (x-direction) delivers high bending stiffness at low weight. Available cut-to-length from 80 mm to 6,070 mm with a broad range of standard and customized finishing options.

## TECHNICAL DATA

|                        |                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ausführungsklasse      | TEC                                                                                                                                                     |
| Country of Manufacture | Germany                                                                                                                                                 |
| HS-Code                | 76042100                                                                                                                                                |
| 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                 | 0.1 kg                                                                                                                                                  |



## STANDARDS & COMPLIANCE

ESD safe

## DESCRIPTION

The 80x160L strut profile in anodized aluminum is part of the Bosch Rexroth profile system with a 40 mm modular grid. Its 80x160 mm cross-section and 12 open 10 mm slots make it suitable for load-bearing frame and strut assemblies in production, automation, and mechanical engineering environments. Custom cut lengths from 80 mm to 6,070 mm are available; standard and customized machining operations are offered from specified minimum lengths.

- High bending stiffness: area moment of inertia  $I_x = 850.7 \text{ cm}^4$ ,  $W_x = 106.3 \text{ cm}^3$
- 12 open slots for maximum connection flexibility on all profile faces
- ESD-suitable - safe for use in electrostatically sensitive environments
- Anodized surface (natural) for corrosion resistance and a clean appearance
- Wide machining range: M12, D9.8, D17, DB17, F1 (standard) and DI, DIS, MT, MTS, MI, MIS, DG (customized)

## TECHNICAL DATA

| Property      | Value      |
|---------------|------------|
| Cross-section | 80x160L mm |

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                                                                        |
|---------------------------------------------|------------------------------------------------------------------------------|
| Dimensions                                  | 80x160 mm                                                                    |
| Profile slot width                          | 10 mm                                                                        |
| Modular dimension                           | 40 mm                                                                        |
| Open slots                                  | 12                                                                           |
| Profile type                                | Standard                                                                     |
| Material                                    | Aluminum, anodized                                                           |
| Color                                       | Natural                                                                      |
| ESD                                         | Yes                                                                          |
| Length min (L min)                          | 80 mm                                                                        |
| Length max (L max)                          | 6,070 mm                                                                     |
| Mass                                        | 8.9 kg/m                                                                     |
| Profile surface (A)                         | 32.9 cm <sup>2</sup>                                                         |
| Area moment of inertia I <sub>x</sub>       | 850.7 cm <sup>4</sup>                                                        |
| Moment of resistance W <sub>x</sub>         | 106.3 cm <sup>3</sup>                                                        |
| Area moment of inertia I <sub>y</sub>       | 253.4 cm <sup>4</sup>                                                        |
| Moment of resistance W <sub>y</sub>         | 63.4 cm <sup>3</sup>                                                         |
| Torsional moment of inertia I <sub>t</sub>  | 182 cm <sup>4</sup>                                                          |
| Moment of torsion resistance W <sub>t</sub> | 41.1 cm <sup>3</sup>                                                         |
| Standard profile finishing                  | M12 / D9.8(C,D,E,F,I,J,K,L) / D17(C,D,E,F,I,J,K,L) / DB17 / F1(A,G)          |
| Customized profile finishing                | DI / DIS / MT / MTS / MI / MIS / DG                                          |
| Notice                                      | DGmax = 45°, Lmin1/Lmin2 = 460/620 mm, standard finishing at specified slots |
| Packaging unit                              | 1                                                                            |
| Recommended accessories                     | Cover cap 80x80 signal gray, mounting hole plug 80x80 black                  |