



AUTOMATIZATION

SPECIAL STEEL PROFILES FOR

SPECIAL STEEL PROFILES FOR LINEAR TECHNOLOGY

Industrial automation requires **precise and reliable components**. Calvi's customized special profiles for linear guides and automated handling systems improve the efficiency of its processes. Designed to **withstand heavy loads** and wear over time, these profiles are the ideal solution for manufacturers of automated systems since they improve the precision and durability of production lines.

Main applications



MONORAIL
LINEAR GUIDES



BALL TRACKS



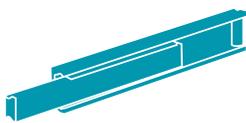
ROLLER TRACKS



SLIDERS



MINI GUIDES



TELESCOPIC
LINEAR GUIDES



GUIDES



SLIDERS



LINEAR TRACK
ROLLER GUIDES



"V" GUIDES



ROLLER GUIDES



FLAT GUIDES

Advantages

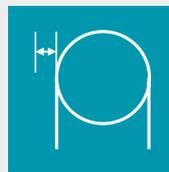
- Supplied in **long bars** (6 m or even more on request)
- **Broad dimensional range**
- **Reduced machining time**
- Improved metallurgical properties with **grain strengthening**
- Improved mechanical properties in terms of **strength, hardness** and **toughness**
- High **dimensional** and straightening **precision**



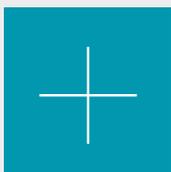
Product range



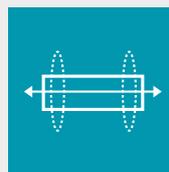
PROFILE TYPES
hot-rolled, cold-drawn



SIZE TOLERANCES
between +/- 0.02 and +/- 0.10 mm (standard)
from +/- 0.001" to +/- 0.004" (standard)



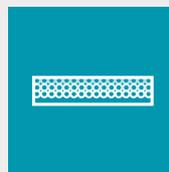
CROSS SECTION
between 20 and 10,000 mm²
from 0.03 to 16 inch²



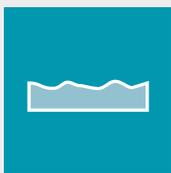
STRAIGHTENING TOLERANCES
between 0.3 and 1 mm/m (standard)
from 0.01" to 0.04"/ft (standard)



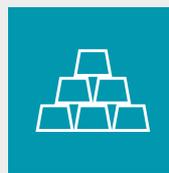
WEIGHT
between 0.1 and 75kg/m
from 0.06 to 50 lbs/ft



DECARBURIZATION
up to 0 mm (on request)
up to 0" (on request)



SURFACE ROUGHNESS
between Ra 0.8 and Ra 3.2 μm
from Ra 32 to Ra 125 μin



MATERIALS
carbon and alloy steels for surface
hardening, stainless steels

Indicative values. The data are provided for general information purposes only and may not be considered to guarantee any product properties.



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