



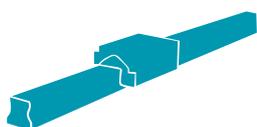
# AUTOMATIZATION

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



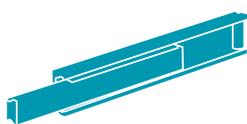
ROLLER TRACKS



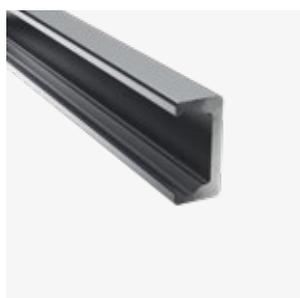
SLIDERS



MINI GUIDES



TELESCOPIC  
LINEAR GUIDES



GUIDES



SLIDERS



LINEAR TRACK  
ROLLER GUIDES



"V" GUIDES



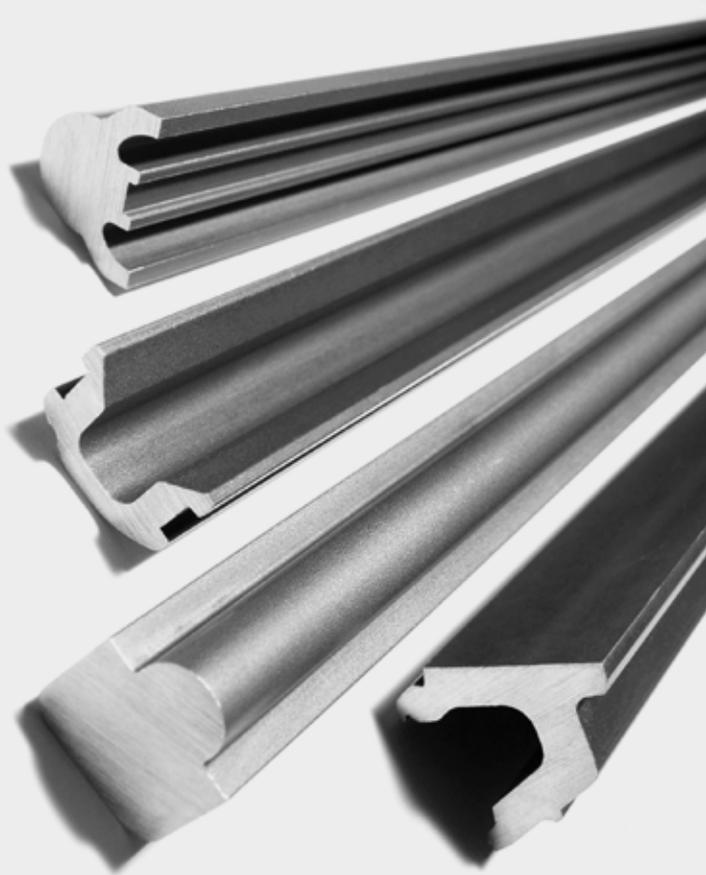
ROLLER GUIDES



FLAT GUIDES

# Advantages

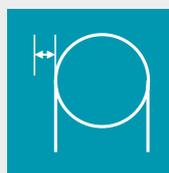
- Supplied in **long bars** (6 m or even more on request)
- **Broad dimensional range**
- **Reduced machining time**
- Improved metallurgical properties with **grain strengthening**
- Improved mechanical properties in terms of **strength, hardness** and **toughness**
- High **dimensional** and straightening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



# Product range



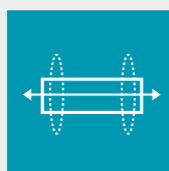
**PROFILE TYPES**  
hot-rolled, cold-drawn



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



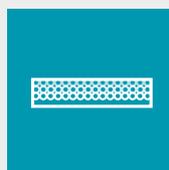
**CROSS SECTION**  
between 20 and 10,000 mm<sup>2</sup>  
from 0.03 to 16 inch<sup>2</sup>



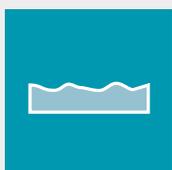
**STRAIGHTENING TOLERANCES**  
between 0.3 and 1 mm/m (standard)  
from 0.01" to 0.04"/ft (standard)



**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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