



# Belt deflection wheels

## Application / Challenges

Belt deflection wheels are used in conveying systems, where they help to drive and deflect the drive belt, as well as maintaining tension and providing pressure and support.

High speeds and dynamic interaction between the belt and the wheel have a significant impact on both elements. If the surface of the wheel is smooth and abrasion-proof, this helps to extend the belt's service life.

Electroconductive wheels are crucial to prevent electrostatic build-up on the belt, which in turn protects any adjacent electronic components.



## Solution and materials

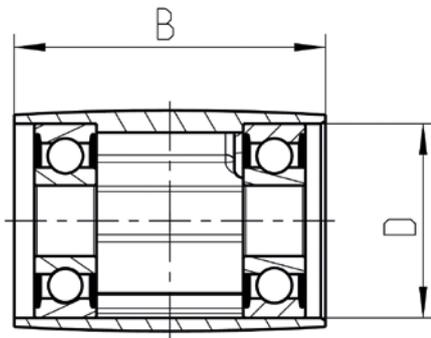
faigle uses very stiff PAS-60GF ELS plastic for its belt deflection wheels. This long-lasting, wear-resistant material is also electroconductive, with a specific volume resistivity of  $<10^4 \Omega\text{m}$ .

A cost-effective alternative to turned parts, our injection moulding process produces a very smooth surface – here, the focus is on preventing burring and sharp edges resulting from misalignment of the mould.

Belt deflection wheels are custom-built in line with the requirements placed on them. Cylindrical and embossed designs are available, and other options include side flanges or custom surface structures such as longitudinal grooves. On request, we can supply belt deflection wheels as assemblies including holders or shafts.

## Customer Benefits

- ✓ Wear-free, gentle belt running thanks to extremely smooth, burr-free surface
- ✓ Electroconductive materials prevent electrostatic build-up
- ✓ Also available as finished assemblies including shafts and fastening system



## Specifications

- D 20 – 100mm
- B 30 – 80mm