

SE sorter running wheels

Application / Challenges

Alongside comprehensive operational reliability and quiet, vibration-free running, energy consumption is increasingly becoming a key consideration for sortation system operators.

Running wheels for these systems need to operate reliably for years on end, without the need for maintenance. Particularly low running resistance is also essential in order to minimise the systems energy consumption.

In turn, low start-up torque is vital for the layout of the drive stations in the system.

Meanwhile, good damping properties and low noise emissions help to improve working conditions for operating staff.



Solution / Material

High performance, low consumption: faigle's next-generation wheels can cut the energy consumption of parcel sortation and baggage handling systems up to 20 - 30%. The wheels run smoothly and quietly thanks to their optimised concentricity and running resistance. A unique damping system absorbs shocks and vibrations.

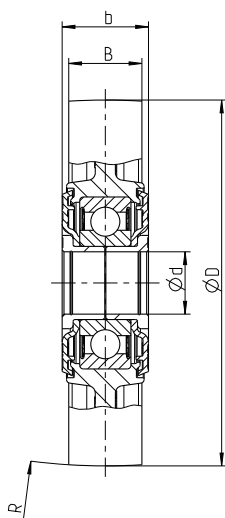
faigle's new running wheels feature a polyamide hub with a PAS-PU TCS tire. The specially developed running surface stands out for its minimal compression set. This all but eliminates flattening even after long stoppages, which in turn saves energy when the system restarts. The higher-strength wheel construction allows for a narrower tire without compromising on load-bearing capacity or running smoothness – this translates into lower running resistance, cutting energy demand in day-to-day operations.

The SE running wheel has outstanding damping properties, thanks to the unique faigle damping system (FDS). It provides highly effective protection against shocks and vibrations from the wheel suspension, with no adverse effects in terms of rolling resistance. The wheel's ribless design is also completely new. It helps to ensure low-vibration concentricity, while the smooth outer contour reduces dust deposits, for effective protection against pockets of dirt.

The completely black SE running wheel is available with laser marking in light grey.

Customer Benefits

- ✓ Optimum energy efficiency thanks up to 20 - 30% reduction in start-up and running resistance
- ✓ Integrated faigle Damping System (FDS) reduces operating noise
- ✓ No hydrolysis-related ageing or damage – reliable operation, including in damp environments
- ✓ Strong tire bonding maximises reliability
- ✓ Quality-approved ball bearings that meet the highest standards ensure trouble-free operation over many years



Specifications

D 70 – 120mm
d 10 – 30mm
B 15 – 35mm
b 16 – 35mm

Tire hardness: 85 – 95 Shore A
54 – 64 Shore D
Load capacity: 300 – 2.000 N
Speed: 0 – 5m/s