INTRALOGISTICS SERVICE PARTS
In 1968 faigle started to develop the first wheel made of thermoplastic polyurethane. Since then, faigle has continued to successfully develop and refine its plastic wheels. Today, faigle supplies millions of wheels every year for sorting plants, conveying systems and warehouse logistic systems. This makes faigle into your prime contact partner for spare parts in OEM quality.

faigle wheels are used all around the world in any type of application which combines a demand for long service life and high performance. They are just as capable of meeting the harsh requirements for continuous use in subway escalators as they are of meeting the demands of fast-moving luggage sorting systems. Our products help you make sure your system runs in fail-safe state and reliably for many years. You can rely on trouble-free operation under the toughest of conditions.

CUSTOMER SERVICE TEAM
You are backed by 50 years of faigle experience in the use of wheels in intralogistics systems. Our Customer Service Team will assist you to find the right components for your system.
faigle WHEELS
TECHNICALLY IMPRESSIVE

APPLICATION TECHNOLOGY, DEVELOPMENT
The faigle Development and Technology Centre is home to experienced engineers who work together to transform specific customer requirements into tailor-made faigle solutions.

In the process, they can fall back on a knowledge pool full of empirical data, test results and expertise from over 50 years of faigle development.

Over the years, the company has received hundreds of approvals for its components from many major brand manufacturers of sorter and conveying systems. Many wheels developed by faigle are state of the art today for the entire industry.

Our engineers have also taken into account the impacts of all kinds of climatic conditions on our products. For you, this means that faigle wheels can be safely used even in regions with high air humidity or in freezing environments.

QUALITY ASSURANCE LABORATORY
Our quality management ensures the best possible quality of our products and this in turn assures maximum availability of your systems.

Testing of faigle wheels is performed with state-of-the-art equipment in our laboratory.

- Dynamic roller test stands
- Dimension inspection
- IR spectroscopy
- CAQ system
- Digital microscopy
- Peeling test
- Linear tribology test stand
- Rolling resistance test stand
- Ball bearing noise test
- Flattening test

**DYNAMIC WHEEL TEST STAND**

Technical specification
**Speed:** up to 5 m/s, adjustable
**Load:** 300 - 8000 N
Dynamic load programs (2 load levels) possible
**Possible roller Ø:** up to 160 mm

This stand carries out tests which are precisely matched to the actual loads existing on your systems.

**BALL BEARING NOISE LEVEL TEST**

Technical specification
**Type:** S0910II Bearing Vibrometer
**Speed:** 1500 rpm
**Test level:** as specified (drawing)

This test determines the quality of the running and ball bearing surfaces, and the purity of the ball bearing grease. It helps us ensure that the quality of all ball bearings fitted in our wheels is absolutely perfect.
faigle WHEELS
HIGH-PERFORMANCE MATERIALS

MATERIALS

PAS® PU-H
Our wheel tires are made of proprietary faigle PAS® PU-H, which is a thermoplastic polyurethane. You have a choice of different hardness factors to suit your application.

ABRASION RESISTANCE
PAS® PU-H offers much higher abrasion resistance than other materials such as rubber. This makes PAS® PU-H into the perfect wheel material for tough continuous duty applications. For you, it means less soiling from abrasion on guide rails and permits precise system operation over the long term.

TEAR PROPAGATION RESISTANCE
The high tear propagation resistance of PAS® PU-H prevents tire damage which may come from sharp edges or swarf and result in larger cracks or tears. This increases the operational reliability of your system and protects you from sudden outages caused by tire rupture.

DAMPING BEHAVIOUR
PAS® PU-H has excellent damping behaviour and is capable of absorbing impacts and annoying vibrations very effectively. Our material ensures that your system runs smoothly and at low vibration.

RESILIENCE
PAS® PU-H has excellent resilience way beyond the level of cast polyurethane, for example. This effectively prevents permanent deformation or flattening of the wheels in their particular application. Our specially developed PAS® PU-TCS is available for extremely demanding applications.

HYDROLYSIS RESISTANT
Conventional polyurethane can be badly damaged by water penetration. To solve this problem faigle developed a special hydrolysis resistant material: PAS® PU-H. Various tests and over 20 years of practical application have proven that our material has more than double the service life in high humidity environments than conventional materials. This permits our wheels to be installed without any problem even in regions where other materials fail.

PAS® 80-GF
Our material for wheel hubs has a proven track record and is based on polyamide with glass fibre reinforcement. This material features high load-bearing capacity in both radial and axial directions and long-term dimensional stability. It also dampens noise and vibrations. With PAS® 80-GF faigle achieves an excellent and reliable connection to the tire made of PAS® PU. Compared to wheels with metal hubs faigle plastic wheels are much lighter and transmit less noise or vibration to your system. Outages caused by ruptured tires are relegated to the past with faigle wheels.

BALL BEARINGS
faigle procures over 15 million ball bearings annually from long-term, authorised and audited suppliers from Europe and Asia. This has provided us with an enormous pool of experience in the specification and testing of ball bearings. Besides tire and tested premium brands we can also supply you with our proprietary faigle SFBC ball bearings. They are high-quality Chinese bearings which are manufactured, tested and regularly audited to the faigle standard. There are many designs at your disposal. Besides standard models we can supply you with ball bearings with rubber seals, low-friction bearings, deep-freeze and stainless steel bearings.

You benefit from our top conditions in ball bearing procurement and can rely on the operational reliability and tested quality of ball bearings fitted by faigle.

1000 HOURS HYDROLYSIS TEST AT 80°C IN WATER VAPOUR

Wheels made of non hydrolysis resistant polyurethane

faigle wheels made of hydrolysis resistant PAS® PU-H
ADVANTAGES AT A GLANCE

- **High load capacity**
- **Long service life**
- **Hydrolysis resistant**
- **Energy efficient**
- **Extremely abrasion resistant**
- **Low flattening**
- **High Quality ball bearings**
- **Light-weight design**
- **Noise and vibration dampening**