

Partners who place their trust in us

All around Europe, the large railway companies demand outstanding reliability and quality, innovative solutions and practical expertise – in fact, everything you come to expect from the plastic solutions from *faigle*.

Here are some of our key clients:

National rail operators	DB – Germany
	ÖBB – Austria
	SBB – Switzerland
	SNCF – France
	SNCB – Belgium
	SZ – Slovenia
	MAV – Hungary
	HZ – Croatia
	ZJZ – Serbia
	Network Rail – UK
Railway industry	Siemens Transportation Systems
	Bombardier Transportation
	Plasser & Theurer
	Knorr-Bremse Systeme für Schienenfahrzeuge
	VAE Eisenbahnsysteme
	ELH Eisenbahnlaufwerke Halle
Bus industry	Gredelj
	Contrac Cobus Industries

Now it's up to you!

Please request the detailed documentation for all of our *faigle* railway components or contact us directly. We would be more than happy to discuss your individual requirements with you.

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Going forward.

faigle

presented in Romania by



Art i Logistic
SMART SOLUTIONS FOR A BRIGHT FUTURE

Plastics in

railway engineering

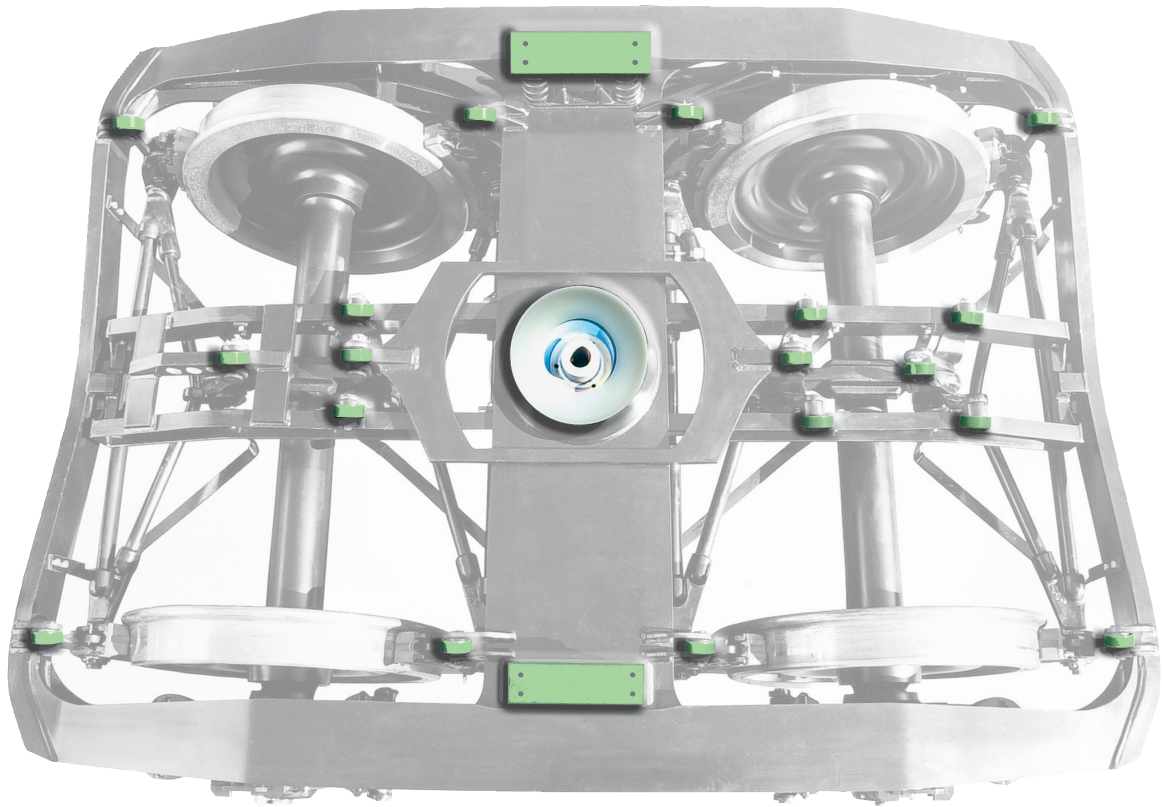
Modern. Future-proof. Innovative.

Going forward.



New-found lightness with tremendous reliability

Whether for locomotives, passenger coaches or goods wagons, low-platform wagons, interior equipment for metro and subway vehicles, trams or track superstructure – technical plastics from *faigle* are used internationally in many different areas of railway engineering – reliably and durably.



An impressive list of advantages



Side bearers made of PAS-80X (green),
PAS-80X GK5 (black)

Lightness

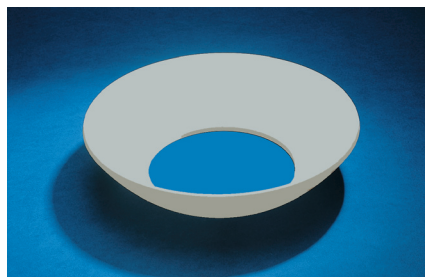
With *faigle* plastics you can achieve weight savings of up to 70 %.

Reliability

Railway operators throughout Europe have come to trust our products.

Durability

Totally maintenance-free, hence minimal servicing costs.



Centre pivot liners made of PAS-60X



Centre pivot liners made of PAS-60X



Brake linkage bushings made of
PAS-80 X (green)

Versatility

Suitable even for really tricky applications.

Expertise

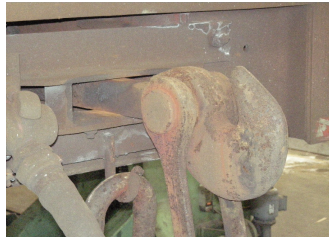
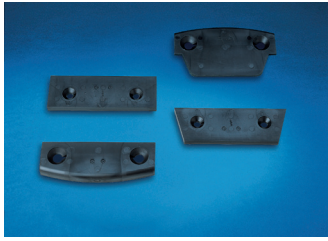
50 years of research, development and extensive specialist knowledge we know what we are talking about.

Individuality

Tailor-made solutions are developed in close co-operation with partners and specialists.

The huge number of different options will surprise you

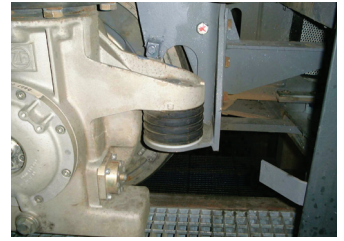
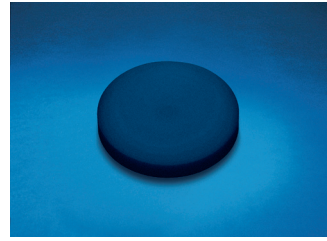
Side bearers for coupling hook guides on goods wagons



Material: PAS-80 MO

Requires no lubrication or maintenance, reduced running noise

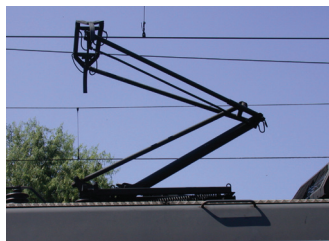
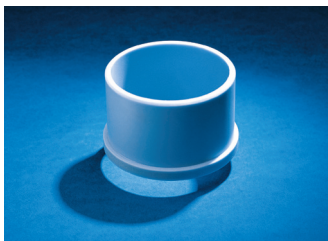
Side bearers for passenger coaches



Material: PAS-PTFE + graphite

Low friction coefficient, maintenance-free, highly reliable throughout its entire service life

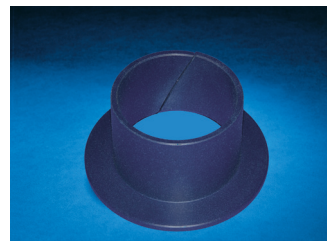
Bushes for contact bows on electric locomotives



Material: PAS-LX

Requires no lubrication or maintenance, protects all adjacent components

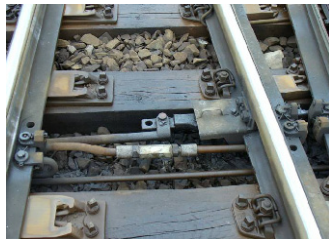
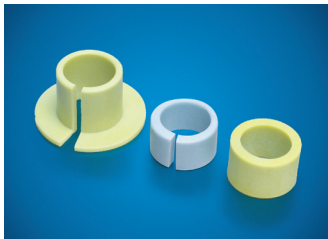
Bearing ring for centre pivot guides on tram cars, subway carriages



Material: PAS-LXY

Very low friction coefficient thanks to the integral dry lubricant, High strength and excellent wear characteristics, Single lubrication on installation – then absolutely maintenance-free

Bushes for points



Material: PAS-LGX, PAS-PEEK

Low maintenance costs through extended service intervals; protection of the bores and pins, environmentally friendly as no additional lubrication is required

Spring washers for tram bogies and subway bogies



Material: PAS-L

High compression strength, many different versions and designs available, versatile applicable

IGOSTRAP® hanging strap system for trams, buses, subway trains etc.



Material: PAS-PU 98 AH FR

High tensile strength, suitable for loads of up to 200 kg, fire safety characteristics compliant with all applicable standards, special colour/design variants available

gripAd® – the advertising message in the hanging strap for trams, buses, subway trains etc.



Material: PAS-PU 98 AH FR

Combining safety with advertising space to offer additional potential revenue from advertising

Partners that have confidence in us

All around Europe, large railway companies demand high reliability and quality, innovative solutions and practical know-how and on plastic solutions by *faigle*.

This confidence is documented by many certifications, among others by the Deutsche Bahn and the Croatian National Railways.

Here are some of our key clients:

National rail operators	DB – Germany
	ÖBB – Austria
	SBB – Switzerland
	SNCF – France
	SNCB – Belgium
	SZ – Slovenia
	MAV – Hungary
	HZ – Croatia
	ZJZ – Serbia
	Network Rail – UK
Railway industry	Siemens Transportation Systems
	Bombardier Transportation
	Plasser & Theurer
	Knorr-Bremse Systeme für Schienenfahrzeuge
	VAE Eisenbahnsysteme
	ELH Eisenbahnlaufwerke Halle
Bus industry	Gredelj
	Contrac Cobus Industries

Now its your turn!

Please ask for the detailed documentation of all *faigle* railways components or contact us.
We are always at your disposal for a personal consultation.

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Art i Logistic
SMART SOLUTIONS FOR A BRIGHT FUTURE

Plastics

for innovative bogies

Going forward.



Lightness with high reliability - Proven under continuous high-stress

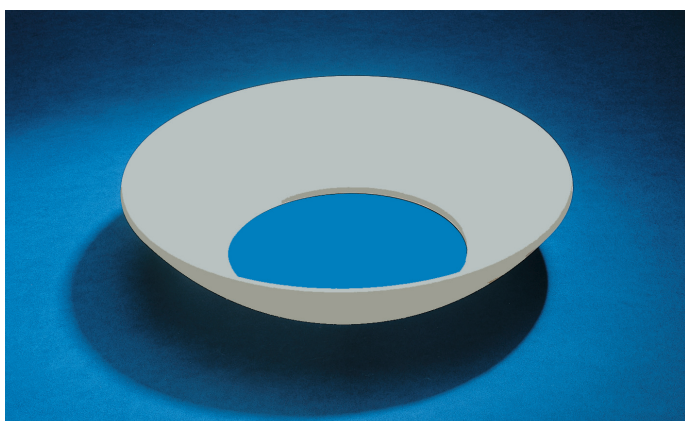
Whether locomotives, passenger and goods wagons, low-platform wagons, subways and local train fixtures, trams or infrastructures – technical plastics by *faigle* are used internationally for various railway applications. Reliable, maintenance-free and durable.



Center pivot liners

Installed as centre plate in the bogie of goods wagons they assure with a defined coefficient of friction the weight transfer of goods wagons to the bogies. Trouble-free operations while moving straight ahead and through curves, compensating impact loads during acceleration, braking and shunting are guaranteed for a long time – even under extreme weather influences.

Innovative materials prevent slip-slick-effects and render additional lubrication unnecessary.



Sliding plates

Sliding plates mounted on the sides of the bogie support the wagon body. Coaction on rotations with the centre pivot liners is determined by predefined coefficients of friction and turning torque. Without additional lubrication reliable and maintenance free operations are guaranteed, even under the harshest weather conditions.

Many years ago, the Deutschen Bahn AG (DB) certified it as „sprung pressed sliding plate“. A well considered decision, that still stands for trouble-free continuous operations.





Brake linkage bushings

For highly stressed components in bogies of goods wagons decision makers are increasingly applying solutions based on innovative plastics. *faigle* plastic bushings have proven themselves over many years in brake linkage bearings. They have extremely low coefficient of friction, outstanding dry run properties and excellent welding characteristics. The excellent damping characteristics soften the impact on surrounding components such as bores and bolts. Over many years, in any weather and without additional maintenance. Whether as new equipment or for repair: *faigle* bushings are the intelligent and innovative solution.



Consultation

A lot of experience is required to determine the best plastics for specific areas of application *faigle* application engineers have been developing first-rate and innovative plastic products for over 25 years for railways. Take advantage of this knowledge and get the best solution!

Plastics railway construction: The advantages

No maintenance:

No lubrication required between the maintenance intervals.

Environmentally friendly:

Significant noise reduction due to outstanding damping characteristics.

Light:

Saves up to 70% in weight.

Customized:

Individual customer requirements lead to customized solutions.

Convincing price/performance ratio:

Lower maintenance costs due to longer service intervals.
Protection of the surrounding function areas.