

EURO || POLES



Barrier Booms

Greater safety in road traffic

Poles
simply
PURPLE



Diversity

Long service life

Cost-effectiveness

Safety

Long life – despite wind and weather

Maintenance-free and without follow-up costs – the centrifugal manufacturing process provides Euro-poles FRP poles with a dense and absolutely smooth surface that is impervious to the weather.

Such poles are also not subject to corrosion. In addition to their great ultraviolet resistance, this leads to a service life of at least 25 years. This material is perfectly suited for all requirements placed on barrier poles, since FRP has excellent vibration-attenuation properties and can therefore resist great dynamic loads. This protects not only the pole, but also the motor drive system.

Owing to their long service lives and lack of subsequent costs for maintenance and repair, FUCHS Euro-poles FRP barrier poles are a highly cost-effective solution and are absolutely maintenance-free. The FRP profile section is rugged against dents, which reduces damages to a minimum from transport, installation, and vandalism. The low intrinsic weight of the poles and their modular design with maximum segment lengths of 6 meters reduce costs for the motor drives and counterweights, and for transport. Handling and installation are possible by only one person.

Safety that you can count on. Owing to the great resistance of fiberglass-reinforced plastics (FRP) to vibrations, FUCHS Euro-poles barrier poles for level crossings do not suffer from uncontrolled fatigue fracture. At level railway crossings with barriers, this plus in safety can save lives. Even in case of a crash, FUCHS Euro-poles has provided for the safety of those involved. If a vehicle crashes through a closed barrier, it will break at pre-defined planned fracture points, at a short distance from the pole mounting point. These design features prevent the pole from bending and intruding into the track or roadway zones. Unlike splintering breaks, these planned fractures are smooth and prevent further injuries – and minimize damage to the vehicles involved. As excellent electrical insulation, FRP also provides maximum personal safety for the case that the pole comes into contact with the train catenary power lines. In addition, FRP is highly fire resistant – which is the reason that our FRP products are also widely used at airports, with their stringent safety regulations.



Versatile and flexible – our barrier booms

We deliver half-length, full-length, and pedestrian barrier poles: all of which must be easily visible and must reliably provide the required protection.

FUCHS Europoles, with its FRP level-crossing barrier poles, that are available as round and rectangular sections, fulfills precisely these requirements. As Q1 supplier for Deutsche Bahn AG for many years, these barriers fulfill the strict technical regulations of German National Railways and have proved widely popular both in Germany and around the world.

FRP level-crossing barrier poles are available in standard white. Dying of the polyester resin, however, enables a great diversity of RAL color shades. Painting afterward is not necessary.

Every FUCHS Europoles barrier pole is provided with a weather-resistant, highly reflective signal film that focuses incident light and reflects it without glare. Various types, colors, and dimensional patterns of the film are available, depending on country specifications.

Barrier-pole sections and dimensions		
Standard pole lengths "L" (in m)	Length of pole section	
	A (in m)	B (in m)
3,0	3,0	–
4,0	4,0	–
5,0	5,0	–
6,0	6,0	–
7,0	5,0	2,0
8,0	6,0	2,0
9,0	5,0	4,0
10,0	6,0	4,0
11,0	5,0	6,0
12,0	6,0	6,0

Various special features can be integrated into these FRP poles: e.g. **LED illumination** and **pole-fracture monitoring** – which makes customized design and solutions possible.



Pole-breakage monitoring – another plus for safety

As a result of increasingly strict safety regulations on the international railway market, we have developed a pole-breakage monitoring system for round barrier poles.



This system is based on a copper stranded conductor permanently embedded by centrifuging into the wall of the pole during production. This conductor is completely maintenance-free and reliably detects any fracture along the entire pole length, by interruption of a safety circuit. If a vehicle crashes through the barrier pole, a transmitted signal will stop any approaching train. This signal is sent exclusively upon such fracture of a barrier pole.

Advantages:

- Absolutely maintenance-free copper stranded conductor, embedded by centrifuging
- Savings in costs and time by minimal expense for inspection of the barriers
- No damage to the train

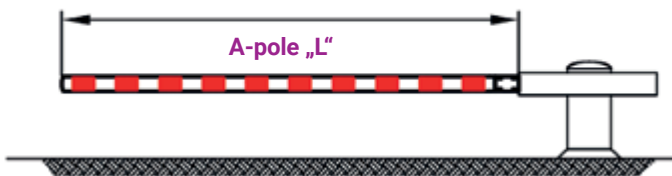


Flexible owing to modular design

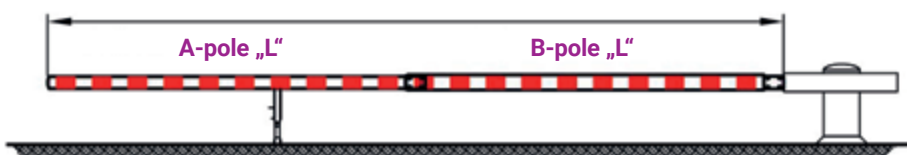
These barrier poles are modular in design and are available in various lengths.

Pole sections A and B are individually exchangeable and can be newly configured as required. Special solutions are available upon request.

Half-length barrier pole



Full-length barrier pole





EURO  POLES

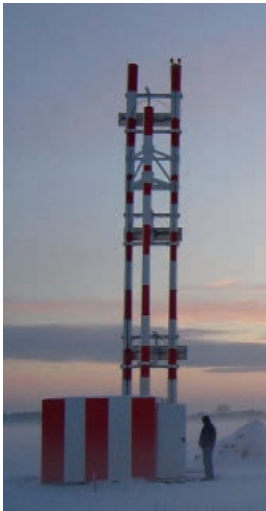
FUCHS EuroPoles GFK GmbH

Europoles-Straße 1 · 92318 Neumarkt · Germany

Phone +49 (0)9181 / 896 - 1208

Fax +49 (0)9181 / 896 - 1700

Mail gfk@fuchs-soehne.de



Airport infrastructure



Barrier booms



Flagpoles



Lighting poles



Transmission poles

THE **NEW WORLD** OF **POLES AND TOWERS**

