Laying System

The world’s most efficient way of laying cables and pipes

- **QUICKER** than all other laying methods: with a daily capacity of up to 10,000 m
- **MORE COST-EFFECTIVE** than trenching or excavating
- **SAFE** for people, materials and the environment
- **STRONG** with tractive forces of up to 360 tonnes for all ground types
- **PROVEN** over generations, for pipe diameters of up to 630 mm
How the FOECK laying system works

Simple yet strong

The laying unit (red) is attached to the plough blade in a manner that allows it to be adjusted, so that it can adapt flexibly to any curves in the ground. The winch vehicle, the FOECK Crawler or FOECK Truck, anchors itself to the ground with a stabiliser plate and pulls the plough with a constant force of up to 180 tonnes (with double cable) through any terrain or water with a maximum depth of 2,000 mm. The pipes or cables can be carried on a cable reel on the FOECK Plough.

Flexible and universal

The laying blade presses the ground apart with high force and lays the pipes or cables in a single work step at a depth of up to 2,500 mm, without any dangerous mechanical strain. Here, the insertion element automatically adjusts, both horizontally and vertically (accordion system). The ripper shoe, which can be adjusted from the driver’s cab, regulates the laying depth, thereby enabling precise laying in the prescribed base slope. Thanks to the multi-section laying unit, tight turning radii up to 4 m can be achieved.

Environmentally-friendly and safe

After the laying process, as the ground surface is restored, the upper part of the laying slot is closed almost halfway. The ground thereby forms a “bridge” over the cable/pipe that has been laid and protects it. The laying material thus lies safely, without mechanical strain, on the laying base smoothed by the FOECK Plough. Over time, fine particles which are washed in by the rain enclose the laid pipe or cable and provide additional protection.
The FOECK Plough

The all-wheel drive SpiderPlow, the FOECK Plough, opens the ground and lays cables and pipes at a depth of up to 2,500 mm in a single work step. To do so, it is pulled by one or two winch vehicles, the FOECK Truck or the FOECK Crawler, for a constant force transmission of up to 180 tonnes of tractive force (pulley); in the case of the FSP 280 with double drawbar, this even rises to 360 tonnes.

**Its characteristics are at the cutting edge worldwide:**

- Incredible laying capacity: up to 1,500 m per hour
- Suitable for the majority of ground types, including loose rock and underwater
- Tear-out force of up to 200 tonnes (with one winch vehicle): even in the case of poor traction, the tow cable always ensures optimum performance
- Cost-effective: no need for excavation of soil or a sand bed
- Very agile: turning radii up to 4 m are possible
- Individual laying chutes allow up to 40 cables to be laid simultaneously, according to your requirements and at different levels up to a depth of 2,500 mm in the ground
- Extremely flexible: thanks to the wheel arms which can be adjusted on all sides and the articulated frame, the FOECK Plough moves around any obstacle in a similar manner to a spider and adapts to the structure of the terrain

In just one day, the FOECK Plough lays as many cables or pipes as a trencher in 5 days or an excavator in 20 days, and protects the natural environment in the process.
The FOECK winch vehicle

The powerful winch vehicles from Walter Föckersperger, the FOECK Crawler and the FOECK Truck, have the strongest mobile cable winch in the world with patented cable spooling: The FOECK Schwenkmatic, for powerfully yet carefully receiving the tow cable for the FOECK Plough.

1. **Power and safety**: As wheeled or crawler vehicles, the FOECK cable winch vehicles have a hydraulically-pivotable support with a stabiliser plate in a width ranging from 2.50 m to 2.95 m so that they can safely transfer the enormous tractive forces.

2. **The hydrostatic drive of the world’s strongest mobile cable winch enables the tractive forces and cable speeds to be continuously adjusted according to requirements across the entire working range.**

3. **The patented Schwenkmatic winch design ensures that operation is gentle on the cable and guarantees tractive forces of up to 180 tonnes with pulley.**

4. **On asphalt roads, a rubber mat ensures safe support on the ground and protects the road surface.**

5. **Easy on the ground**: The large bearing surface of the FOECK Crawler with rubber tracks, only subjects the ground to a load of 0.32 kg/cm² and thanks to its large ground clearance of 700 mm, it is also the vehicle of choice on ground with poor support, such as that found in marshland areas.
The most efficient laying system in the world

HIGHLY PROFITABLE:
20 x quicker than any excavator and 5 x quicker than using a trencher

FLEXIBLE:
Suitable for any pipe or cable up to Ø 630 mm

STANDARD-COMPLIANT:
Laying complies with DIN/EN 1610

POWERFUL:
Even on rocky ground, up to 360 tonnes of tractive force can be achieved with ease

INTERNATIONAL:
Worldwide, around 4.000 km of cable and pipe is safely laid with our system every year

ENVIRONMENTALLY-FRIENDLY:
Bushes, trees and topsoil are mostly left untouched

INNOVATIVE:
The industry’s number 1 for over 55 years with numerous patents
The FOECK laying system makes an impression in numerous applications

**Marshland/muddy ground**
Crossing wetlands and laying a 4” gas line at a depth of 2 m (Canada).

**Frozen ground**
Working in permafrost at -30°C. Laying a 6” gas line at a depth of 1.6 m (Northwest Territories, Canada).

**Sandy, dry ground**
Laying 2 fibre-optic lines at a depth of 2 m at 50°C (Kurdistan, Iraq).

**Hard, stony ground**
Laying a water line with a diameter of 180 mm, here through a mountain river at a height of 1.200 m (Arlberg, Austria).
**AREAS OF APPLICATION**

**Parallel to the road on public ground**

Laying a 20 kV medium-voltage system next to the road in the forest. No damage to the tarred road surface, traffic is hardly affected, minimal damage to the ground. The winch vehicle is supported on the tarred road surface via rubber pads.

**Forest and dirt tracks**

Laying a water line with a diameter of 180 mm along a dirt track. Uses the track, no need to cross private land, no easements and no disruption to the plants during the vegetation period.

**All-terrain**

Laying ductwork for fibre optics along a embankment of 45° next to the motorway. Feeding the pipes over the motorway.

**Water, the Wadden Sea**

Laying a medium-voltage system in the Wadden Sea. Streams, rivers and seas up to 2 m in depth? Not a problem! Depending on the depth of the water, the lines are laid up to 1.9 m below the bottom of the water. As the laying process is quick, the water only clouds over briefly. The graduated slot prevents the pipes from floating.
The FOECK laying system is the number 1 on all continents.

- **GREAT BRITAIN**
  Laying a high-voltage system at a depth of 1.5 m (FSP17).

- **USA**
  **NORTH DAKOTA**
  Laying a 4” Fiberspar™ gas line. Laying depth 2.2 m.

- **CANADA**
  Laying a 8” water line next to a gravel road. Laying depth 2.5 m.
The FOECK laying system is the number 1 on all continents. Used around the world:

AUSTRALIA
Laying a gas pipe with a diameter of 630 mm at a depth of 2.2 m (FSP 220).

RUSSIA
SAKHALIN
Laying a glass-fibre cable at a depth of 1.5 m.

MOZAMBIQUE
Laying fibre-optic cables at a depth of 1.5 m.
The family company, which was founded in 1931 and is now run by the third generation of the family, develops devices and machines which enable flexible lines and pipes to be laid without excavation. The special machine builder, who is based in the Lower Bavarian town of Pauluszell, launches new products, which are used around the world, with increasing frequency.

Reap the benefits of making a smart investment in our robust devices
Put yourself years ahead of the competition when it comes to technology with our laying system
Let us help you carry out your laying tasks.

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