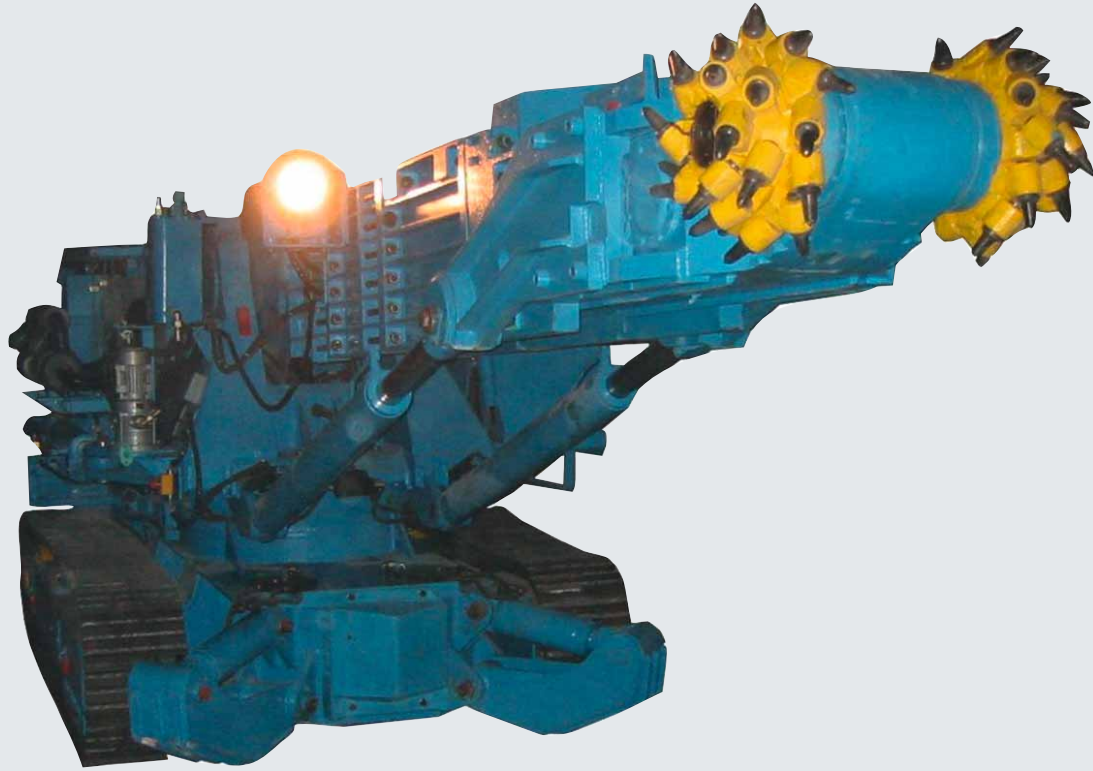
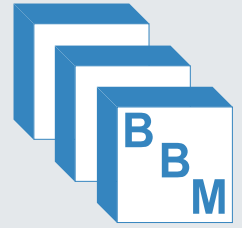


QUALITY LEADS TO QUANTITY



FIRST TILLER
BFT 110

QUALITY AND PRECISION BASED ON EXPERIENCE



RANGE OF SERVICES

- Roadheader
- First Tiller
- Milling Loader
- Excavator Cutting Heads
- Armoured conveyors
- Grabbers
- Special machines
- Maintenance and repair

MACHINES

- Roadheader BRH 300/400
- Roadheader BRH 130
- Roadheader BRH 178/300
- Milling Loader BML 50
- Milling Loader BML H
- Milling Loader BML B 110
- Milling Loader BML N 110
- First Tiller BFT 110
- Excavator
- Cutting Heads BRQ 110

The small installation height makes it possible to move the device in low galleries. Two separately controllable crawler tracks provide good manoeuvrability, as well as the feed motion required for cutting.

When the machine is connected by cable to the mains, the crawler chassis are driven by the electrohydraulic unit; the diesel-hydraulic unit is used for covering larger distances. The crawler track corresponds to the tried and tested system of the tractor chain.

QUALITY LEADS TO QUANTITY

110 kW CUTTING HEAD DRIVE

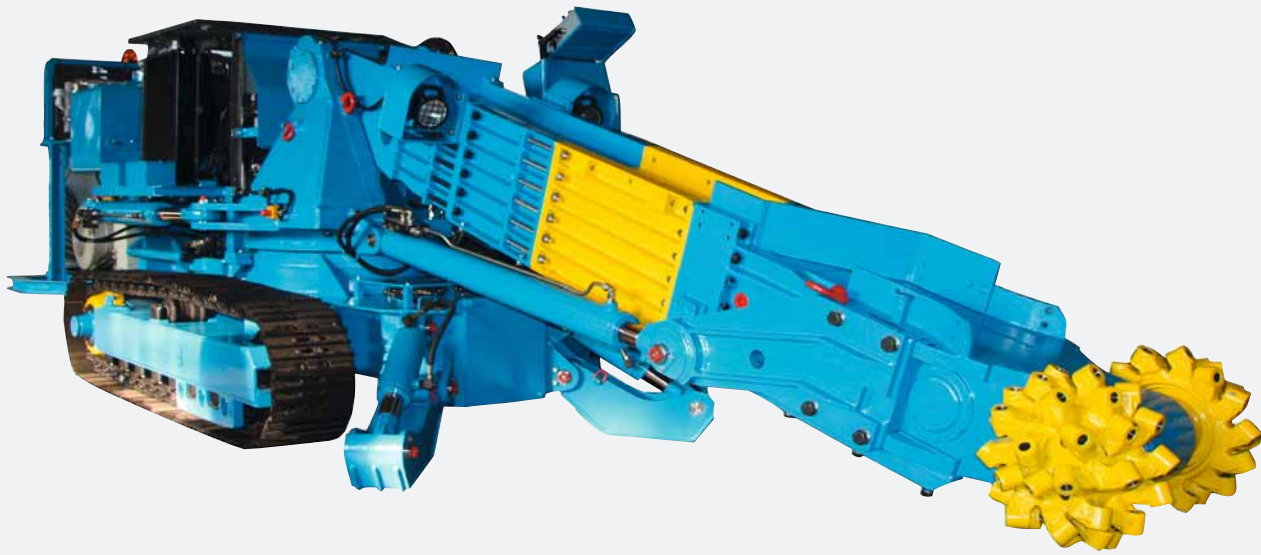
The driver can control the roof cutter from the driver's seat or operate it by an radio control unit from a more favourable location (additional equipment).

The radio control unit used has already proven to be extremely reliable in harsh mining operations.

The compact design of the roof cutter and the fact that it can be dismantled into easily transportable units means that it can be used economically in confined operating conditions in underground mining.

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FIRST TILLER BFT 110

- compact and flexible
- mobile at the site of operation as no loading table is required
- cross-cutting principle
- high level of stability through outrigger support
- good visibility

ADDITIONAL EQUIPMENT BFT 110

- anchor boring rig
- lining placement machine
- working platform
- radio control unit

BFT 110 ROBUST SPUR WHEEL CUTTING GEAR

The roof cutter BFT 110 is used for the efficient cutting of roofs of undeveloped roadways or other operating areas in stable rock.

The device is also suitable for cutting slotted walls for dam gates and for the straightening of drift walls.

The cutting arm, which is borne by a centre support, can be swivelled horizontally and vertically by hydraulic cylinders. In each case the pivoting force is only produced from the underside of the cylinder in order to achieve uniform pivoting speed in both directions.

QUALITY AND PRECISION BASED ON EXPERIENCE

Due to the large pivoting range the moving and idle times are low. Two rotating cutting heads at the end of the cutting arm which are fitted with round shaft bits are driven directly via a gear by means of an electric motor.

The material removed by the cutting heads falls down to the floor of the gallery and is distributed as crushed rock or taken up by a loading device.

BFT 110

TECHNICAL DATA

Main Dimensions

Overall length	8,000 mm
Overall width	2,400 mm
Overall height	2,500 mm
Service weight approx.	23 t

Hydraulic System

Hydraulic fluid	ISOVG 46
Working pressure	180 bar
Tank volume	600 L
Fuel tank (diesel)	90 L

Cutting Arm

Cutting speed at the bit	3.7 m/s
Tangential force at the bit	28.0 kN

Machine Performance

Total installed power	165 kW
Cutting head drive	110 kW
Pump drive	50 kW
Diesel pump drive	75 kW
Cooling/lighting	5 kW

Crawler Chassis

Width of the crawler tracks	400 mm
Ground pressure under the tracks	10 N/cm ²
Driving speed	0.8 km/h
Climbing ability at	35 gon/35°

Field of Application of the Machine

Minimum width of the gallery	2,600 mm
Minimum height of the gallery	2,500 mm
Curve radius	5,000 mm
Minimum cross-section of the gallery	3.2 m
Smallest curve radius	5 m
Standard cutting speed	3.2 m/s

