

Tunnel Heading and Loading Machine available.

Model ITC125 F2 #0608



Informations

- Excavation boom equipment with rock breaker / bucket combination for tunnelling in soft and medium hard ground conditions by using bucket and hydr. hammer.
- Construction year 2020
- Electric drive 3'467 h
- Diesel drive 1'133 h
- Hammer EHB13 1'482 h

Technical data ITC 125 F2

Drive units

Electro-hydraulic and Diesel-hydraulic power packs each with a separate pump units
Electric drive for emission-free work at the face
Air-cooled electric motor, Power at 400 Volt , 50 Hz 75 kW
Diesel drive for travelling and operation without electrical supply
Water-cooled diesel engine, Deutz TCD3.6 L04
Power rating at 2,300 r.p.m 80 kW
Diesel engine complies with emission standard EU V, US T4f, EU IV

Electrical system

Total installed power 60 kW
Voltage (standard) 400 V - 50 Hz AC
Control voltage 24 V DC
Electrical system acc. to EN 60529 (IP54)
Cable reel hydr. driven with 75 m - cross section 3x50+3x10 mm²

Operator's cab

FOPS-Operator's cab gives all-round visibility, and front protection grill.
Roof foldable for transport
CE conformity incl. video monitoring system for the right and rear side with colour LCD in the cab.

Hydraulic system

Load Sense hydraulic system with combination of axial piston gear pump at each drive
Pilot control sysem for all working functions
Main operation by 2 joysticks in Euro standards
Thermostatic controlled hydr. driven oil cooler
Hydraulic pump flow rate 280 l/min
Max. hydraulic operating pressure 280-380 bar
Hydraulic oil capacity (incl. tank) 400 l
Hydraulic oil tank 300 l

Operating data

Minimal cross section approx. 10 m²
Machine width 1'950 mm
Maximal height 2'400-2'750 mm
Transport height 2'400 mm
Length (dep. on equipment) ~10'000 mm
Width of loading apron (adjust.) 1'850-2'950 mm
Width of conveyor (internal) 620 mm
Height of conveyor (internal) 650 mm
Conveyor capacity approx. 150 m³/h
Conveyor discharge height 1'800-2'850 mm
Operating weight approx. 21,6 t

Boom Equipment F2

Excavation boom equipment for heading and loading, includes:

- King post with jib and swivel & tilt console
- Tool holder with a combination of hydraulic hammer and excavation / loading bucket
- Automatic lubrication system for the hammer
- Water spraying device (optional)
- Breakaway torque 89 kN
- Tear-out force over dipper stick 69 kN

Other Equipment

It is possible to attach a range of ancillary equipment, such as different bucket sizes, ripper tooth, pony truck, rubber plated conveyor, other voltage and frequency, other boom, quick hitch device, transverse cutting unit, soot particle filter, central lubrication device, extinguisher system, etc.

