

Tunnel Heading and Loading Machine.

Model ITC120 F6 #0330



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 2003
- Electric drive 2'748 h
- Diesel drive 2'046 h

Technical data ITC 120 F6

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 55 kW
 Diesel drive for travelling and operation without electrical supply
 Water-cooled diesel engine, Deutz TCD2012 L04 2V
 Power rating at 2,000 r.p.m 65 kW
 Diesel engine complies with emission standard Tier 3

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 system 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. 9 m²
 Machine width 1'900 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. 22,9 t

Boom Equipment F6

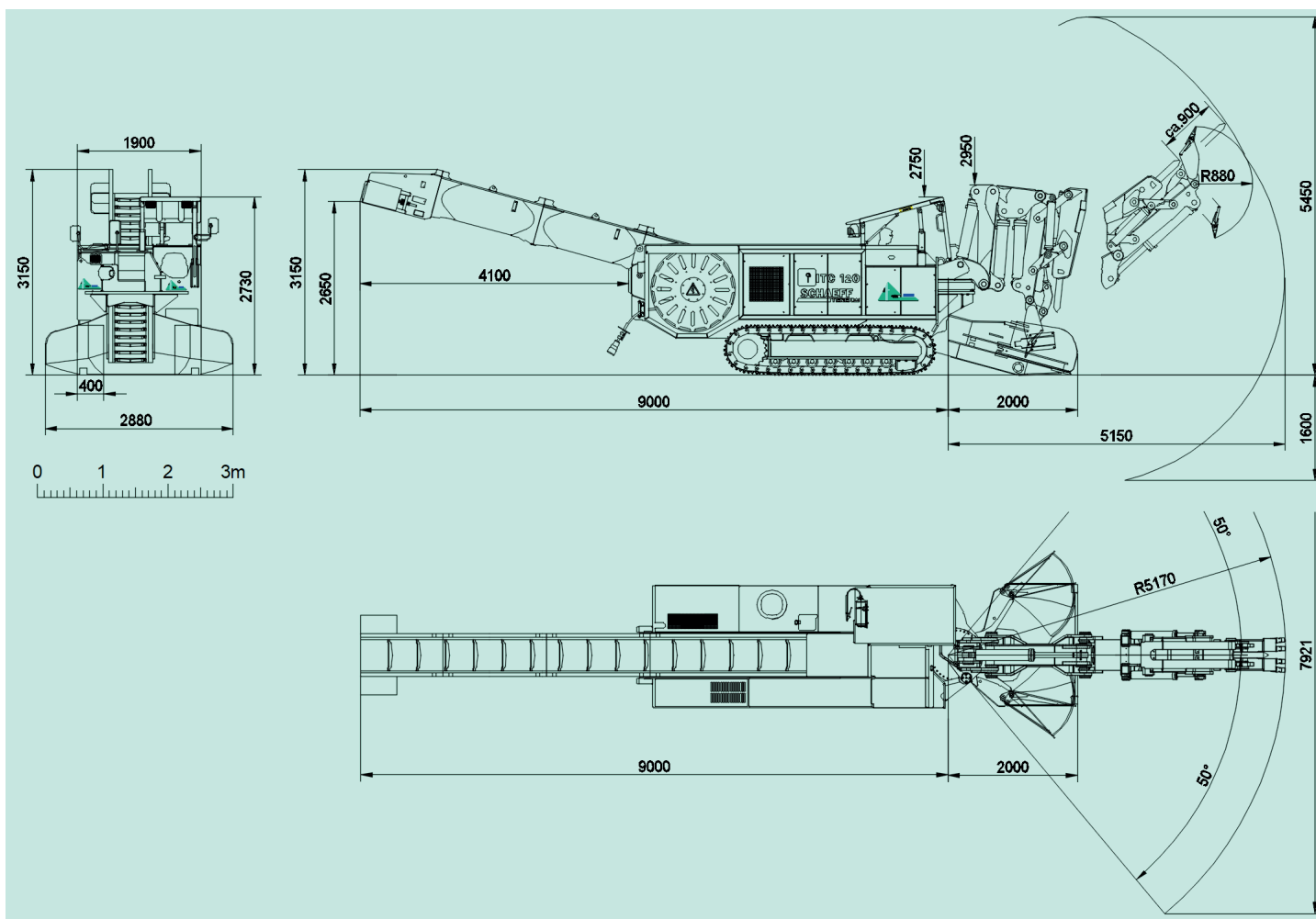
Excavation boom equipment for heading and loading, includes:

- King post with jib and tilt console
- Tool holder with a combination of hydraulic hammer and excavation / loading bucket
- Automatic lubrication system for the hammer
- Water spraying device
- Breakaway torque 89 kN
- Tear-out force over dipper stick 69 kN
- Lifting force (Without working tool) 20 kN

Other Equipment

It is possible to attach a range of ancillary equipment, such as different bucket sizes, ripper tooth, intermediate Jib (F8), 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.

Actual configuration



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