

# Tunnel Heading Machine.

## Model ITC120N F3 #0522



### Informations

- For heading, scaling, for scaling and high speed mucking of blasted rock.

- Construction year 2014
- Electric drive 12 h
- Diesel drive 600 h

### Technical data ITC 120N F3

#### 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 TCD3.6 L04  
Power rating at 2,300 r.p.m 80 kW  
Diesel engine complies with emission standard 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 mm<sup>2</sup>

#### 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. 10 m<sup>2</sup>  
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  
Height of conveyor (internal) 620 mm  
Height of conveyor (internal) 650 mm  
Conveyor capacity approx. 150 m<sup>3</sup>/h  
Conveyor discharge height 1'800-2'850 mm  
Operating weight approx. 22 t

#### Boom Equipment F3

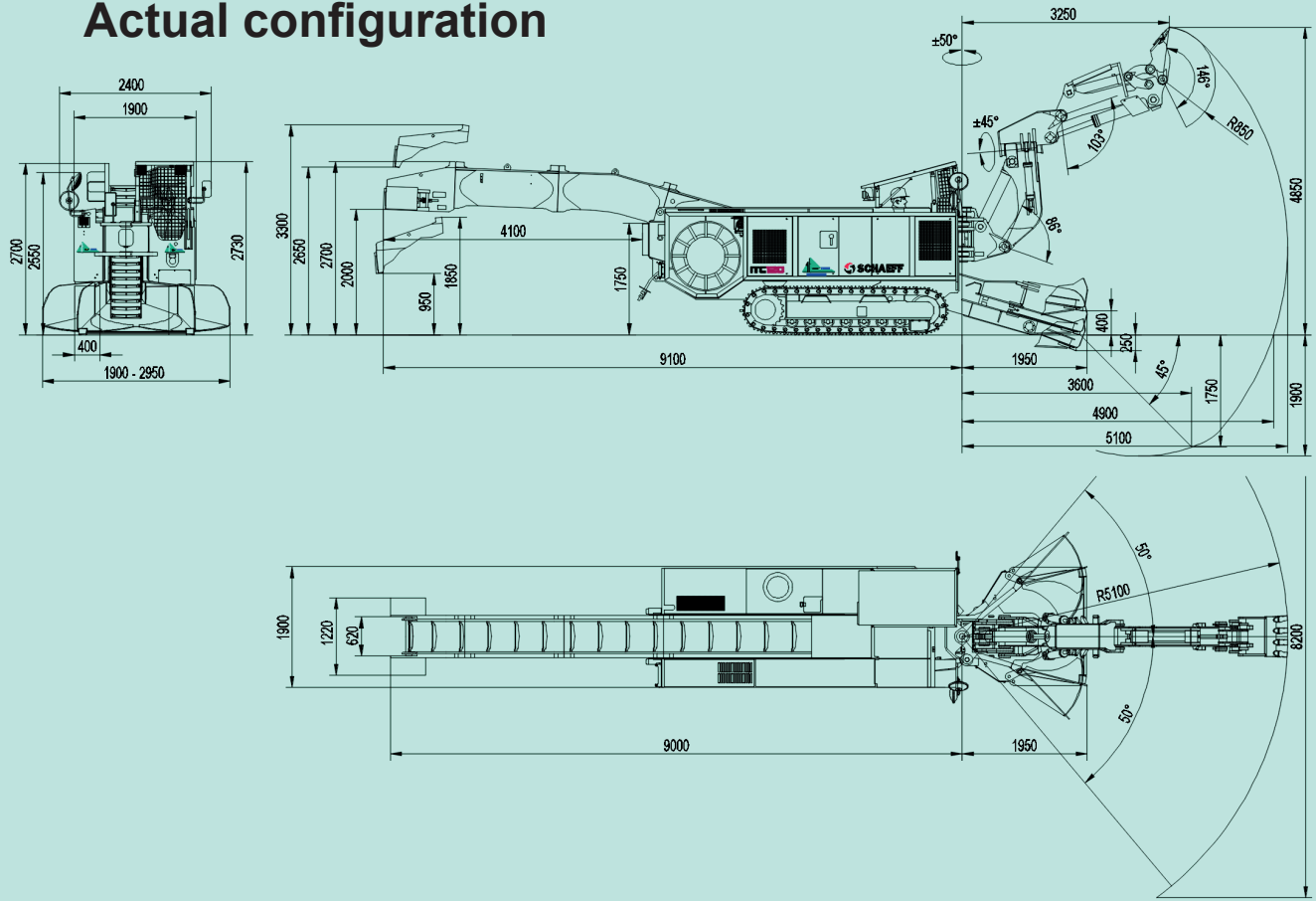
3 Boom equipment for heading and loading, includes:

- King post with jib, swivel console (2x 45°) and dipper stick
- Excavation and mucking bucket, width 350 - 700 mm
- Hydraulic circuit for a hydraulic rock breaker
- Loading capacity acc. to rock conditions approx. 2,0 m<sup>3</sup>/min
- Breakaway torque 100 kN
- Tear-out over dipper stick 64 kN
- Lifting power (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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