

# Tunnel Heading and Loading Machine.

## Model ITC120N F2 #0520



### 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	2014
• Electric drive	383 h
• Diesel drive	195 h
• Rock breaker	33 h

### Technical data ITC 120N 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 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 74 kW  
 Diesel engine complies with emission standard Eur St. 3a

#### 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. 9 m<sup>2</sup>  
 Machine width 1'900 mm  
 Maximal height 2'400-2'750 mm  
 Transport height 2400 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 (external) 650 mm  
 Conveyor capacity approx. 150 m<sup>3</sup>/h  
 Conveyor discharge height 1'800-2'850 mm  
 Operating weight approx. 23,3 t

#### Boom Equipment F2

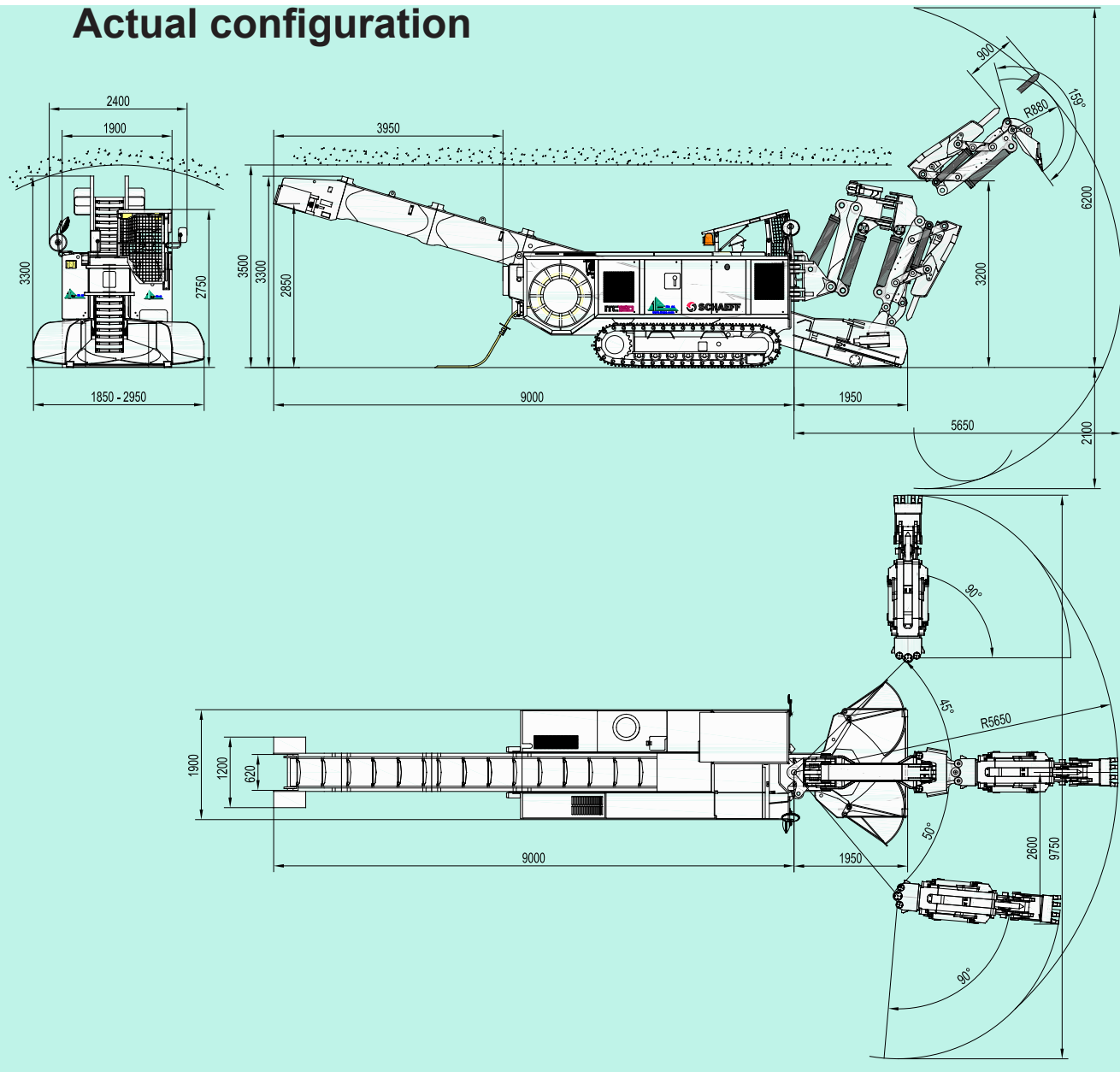
Excavation boom equipment for heading and loading, includes:

- 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.

# Actual configuration



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