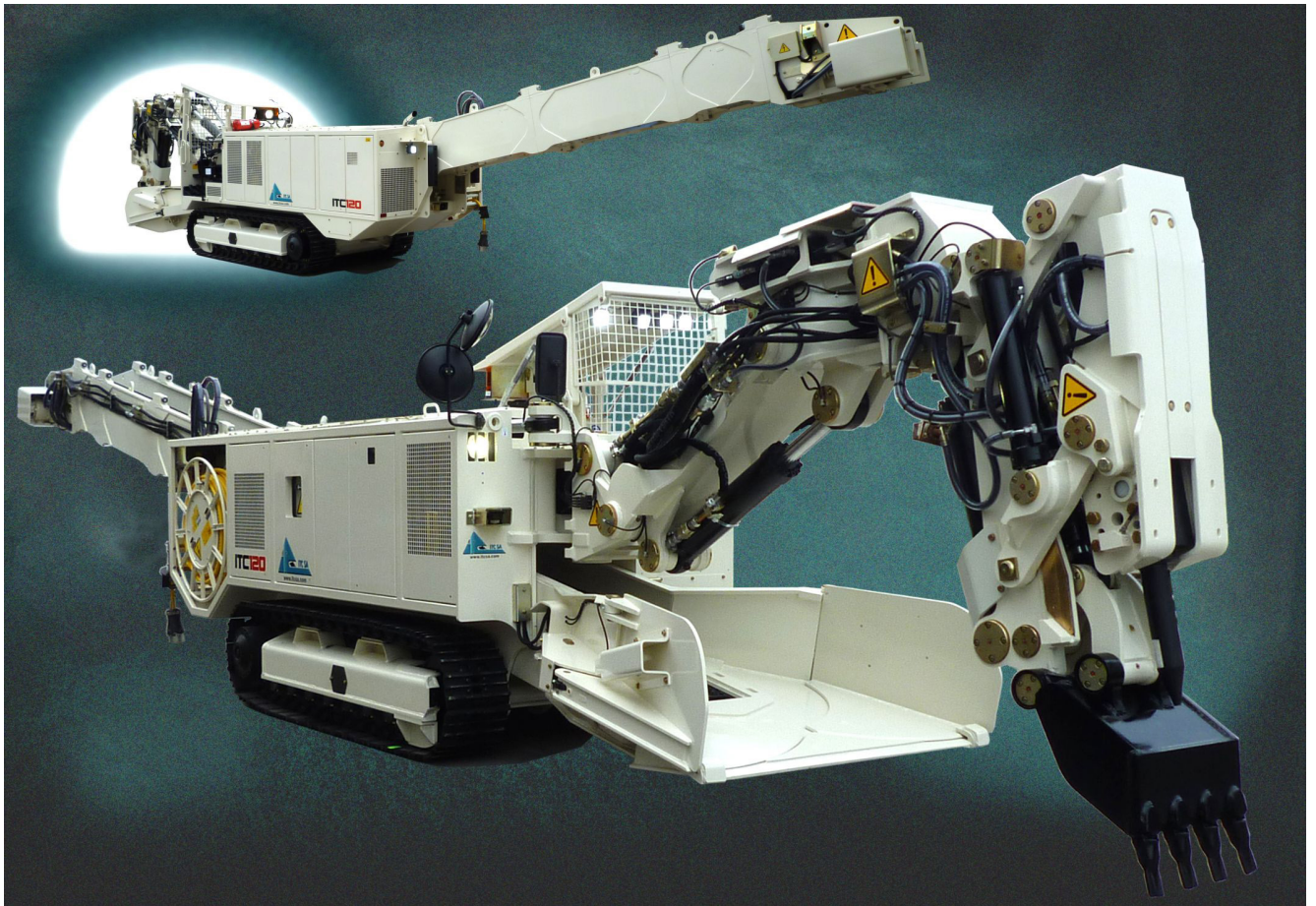


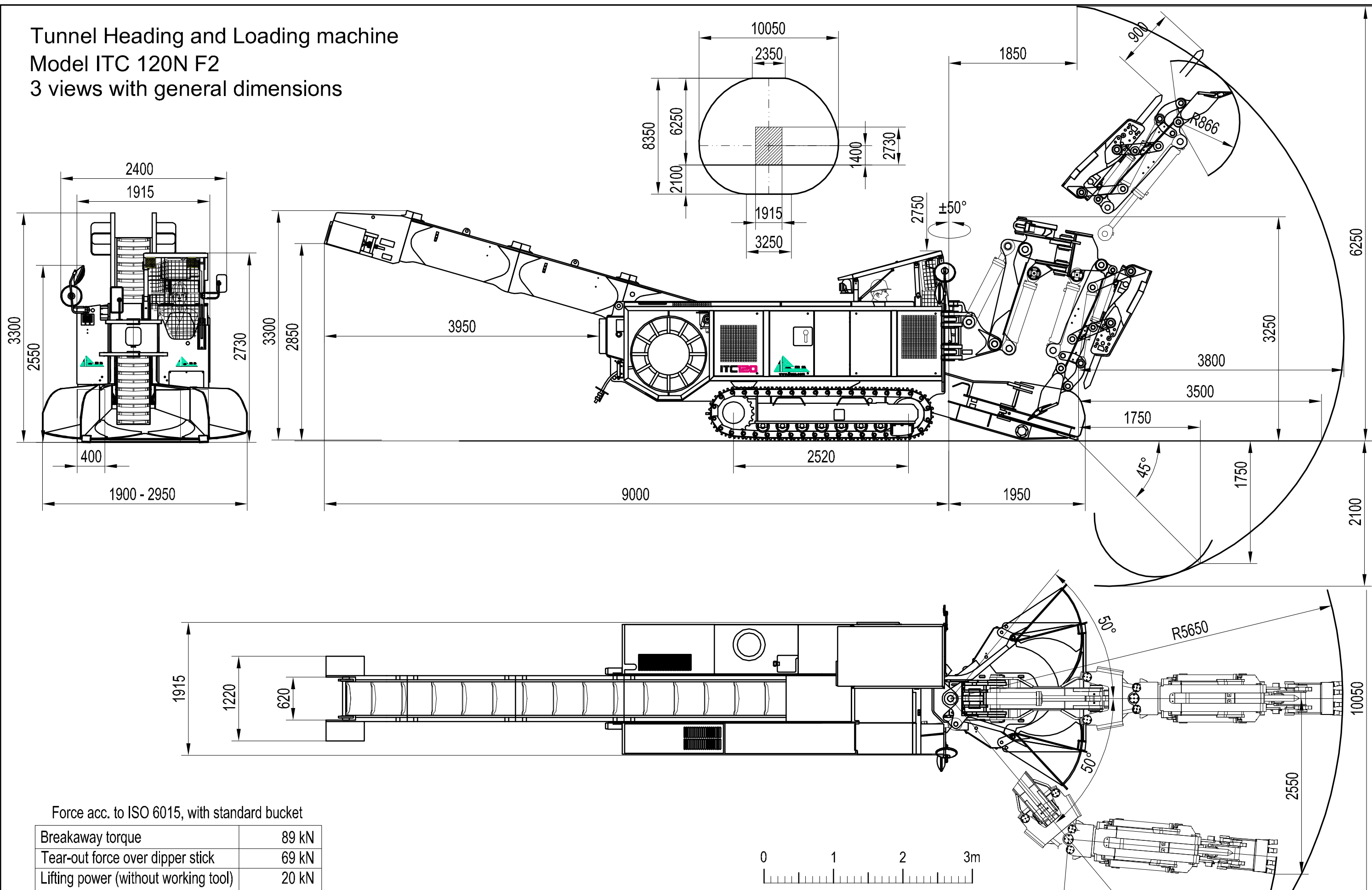
# TUNNEL HEADING AND LOADING MACHINE ITC 120N - F2



- Excavation boom equipment with rock breaker / bucket combination for tunnelling in soft and medium hard ground conditions by using bucket and hydr. hammer
- Diesel drive 74 kW
- Electric drive 55 kW
- Operating weight approx. 25 t

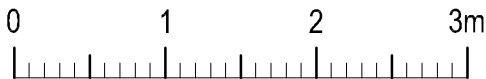


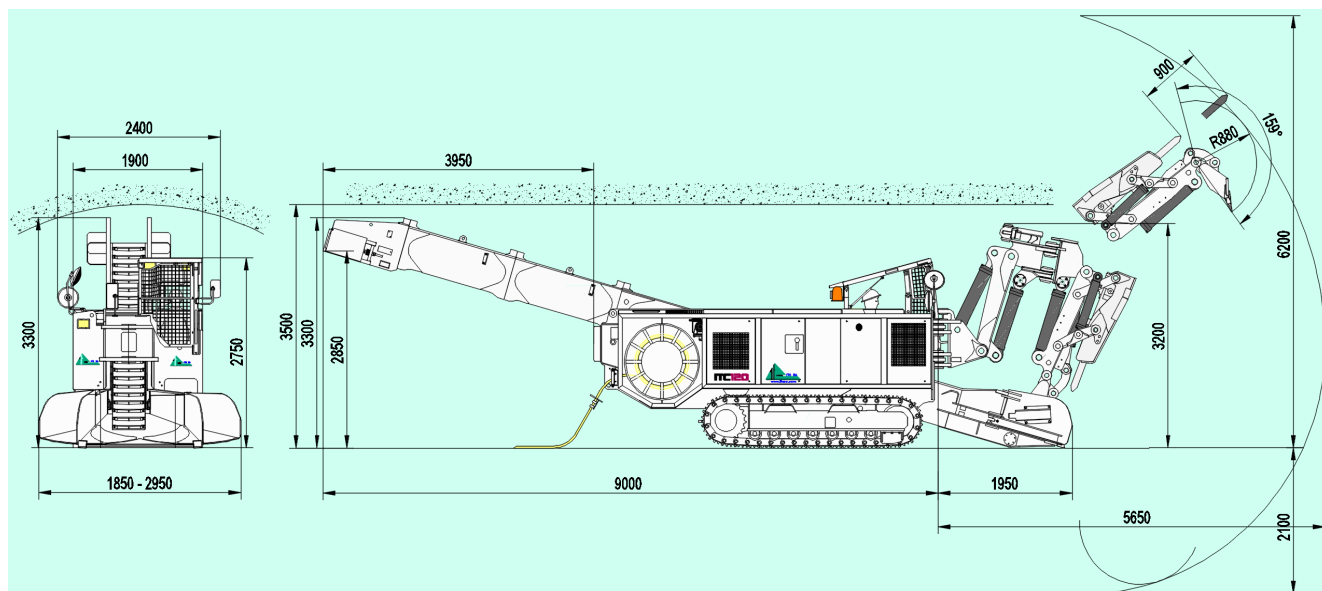
Tunnel Heading and Loading machine  
 Model ITC 120N F2  
 3 views with general dimensions



Force acc. to ISO 6015, with standard bucket

Breakaway torque	89 kN
Tear-out force over dipper stick	69 kN
Lifting power (without working tool)	20 kN
Specific ground pressure	11,4 N/cm²
Global weight	23,1 t





## 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 hydraulically driven with 75 m  
 Cable cross section at 400 V - 50 Hz 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 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 (F2 boom equipment)

Mininimal 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
Width 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. 25 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.

Further details of attachments and accessories available upon request.

Subject to modification without prior notice.



ITC SA

[www.itcsa.com](http://www.itcsa.com) [info@itcsa.com](mailto:info@itcsa.com) ☎+41 277 222 191