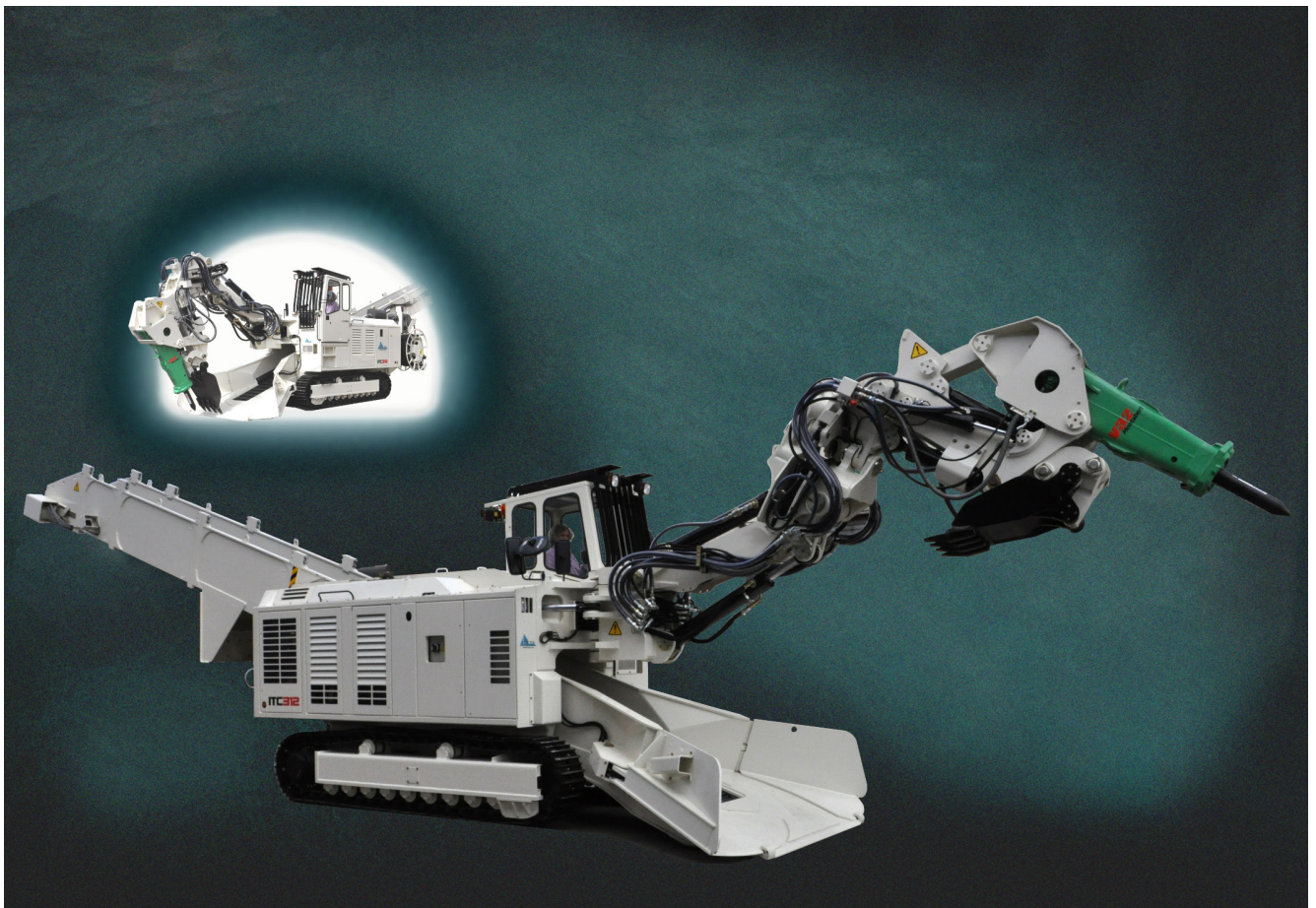


## TUNNEL HEADING AND LOADING MACHINE

# ITC 312N - H6



- Excavation boom equipment with rock breaker / bucket combination for tunnelling in soft and medium hard ground conditions by using bucket and hydr. hammer
- Minimal cross section                      approx. 18 m<sup>2</sup>
- Diesel drive                                      165 kW
- Electric drive                                      90 kW
- Operating weight                              approx. 37,5 t



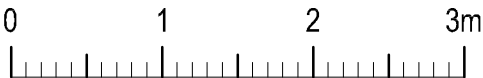
# Tunnel Heading and Loading Machine

## Model ITC 312N H6

### Front, side and top view with boom geometry

Force acc. to ISO 6015, with standard bucket

Breakaway torque	85 kN
Tear-out force over Tilting cons.	53 kN
Tear-out force over dipper stick	62 kN
Lifting power (without working tool)	5 kN
Specific ground pressure	14,2 N/cm²
Global weight	37,3 t



Produced by ITC GmbH & Co.KG

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Dessin non contractuel

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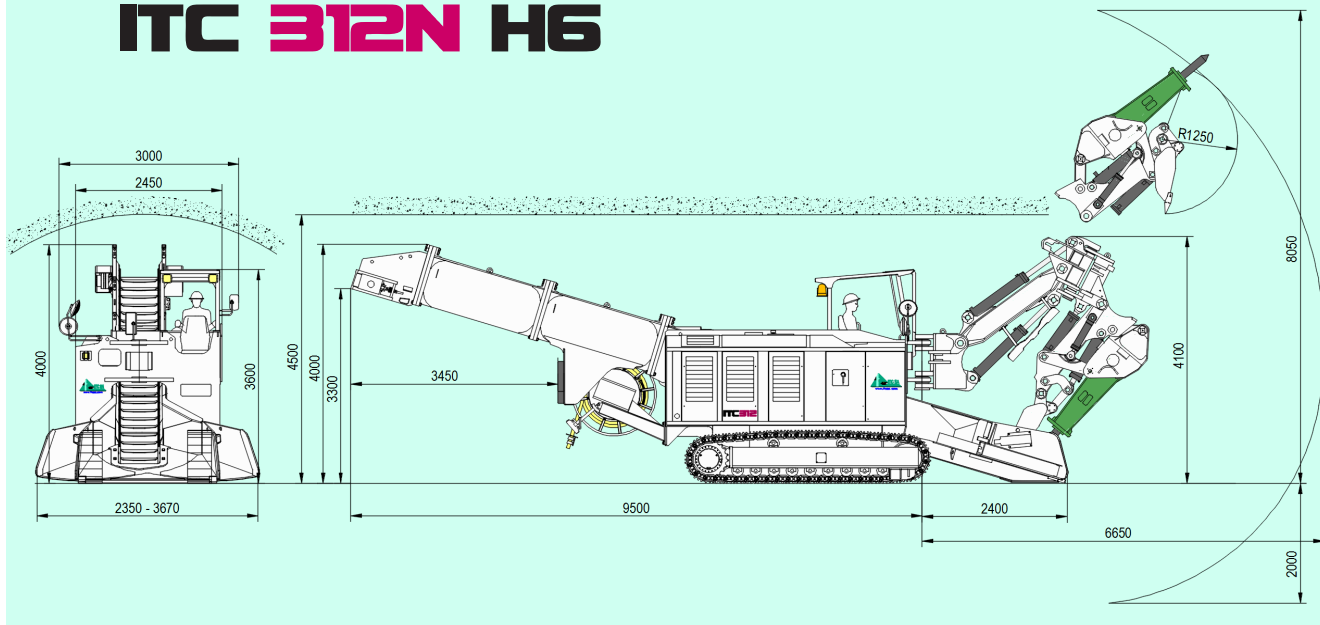
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ITC SA

INTER TECHNO COMMERCE SA

# ITC 312N H6



## Technical data ITC 312N – H6

### Drive units

Electro-hydraulic and Diesel hydraulic power packs each with a separate pump unit with variable flow rate  
 Electric drive for emission-free work at the face  
 Air-cooled electric motor, power at 400 Volt , 50 Hz 90 kW  
 Diesel drive for travelling and operation without electric supply.  
 Water-cooled diesel engine. Deutz TCD2013 L06 2V  
 Power rating at 1'800 r.p.m 165 kW  
 Diesel engine complies with emission standard Euro St. 3a

### Electrical system

Total installed power 95 kW  
 Voltage (standard) 400 V - 50 Hz AC  
 Control voltage 230 V - 24 V DC  
 Electrical system acc. to EN 60529 (IP54)  
 Cable reel hydraulically driven with 90 m cable 3x95+3x16 mm<sup>2</sup>  
 Optional: other voltage or other frequency

### Operator's cab

Operator's cab gives all-round visibility.  
 Roof removable 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 axial piston pump and gear pump  
 Hydr. pilot control for travelling and main working functions  
 Boom control with 2 joysticks in Euro standards  
 Thermostatic controlled hydr. driven oil/air cooler  
 Max. hydraulic operating pressure 250-350 bar  
 Hydraulic oil tank 400 l  
 Pump delivery Diesel engine 440 l/min  
 Pump delivery Electric motor 500 l/min  
 Hydraulic oil system capacity 450 l

### Operating data (H6 boom equipment)

Minimal cross section	approx. 18 m <sup>2</sup>
Machine width	2'400 mm
Maximal height	3'600 mm
Transport height	2'700 mm
Length (dep. on conveyor)	~12'000 mm
Width of loading apron (adjust.)	2'350-3'600 mm
Width of conveyor (internal)	800 mm
Height of conveyor (internal)	800 mm
Conveyor capacity	approx. 300 m <sup>3</sup> /h
Conveyor discharge height	2'500-3'500 mm
Operating weight	approx. 37,5 t

### Boom Equipment H6

Excavation boom equipment with rock breaker / bucket combination for tunnelling in soft and medium hard ground conditions by using bucket and hydr. hammer, including:

- King post with jib and tilt-swivel console
- Tool holder with a combination of hydraulic hammer and excavation / loading bucket
- Automatic lubrication system for the hammer
- Water spraying device

### Other Equipment

It is possible to attach a range of ancillary equipment, such as closed cab, pony truck, rubber plated conveyor, transverse cutting unit, soot particle filter, central greasing device.

Option: Closed cab, Air conditioning, Fire extinguishing device, Water pressurization device with hose reel, Quick hitch system.

Further details of attachments and accessories available upon request.  
 Subject to modification without prior notice.



ITC SA

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