

# Tunnel Heading and Loading Machine

## Model ITC312 #0396 - H6



### 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 2006
- Electric drive 2'591 h
- Diesel drive 1'137 h
- Hammer 406 h

### Technical data ITC 312 – 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 BF6L914 C  
Power rating at 2,300 r.p.m 129.9 kW  
Diesel engine complies with emission standard EEC Euro St. 2

#### 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 for 90 m cable 3x95+3x16 mm<sup>2</sup>

#### Operator's cab

Operator's cab gives all-round visibility, demontable for transport.

#### 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 230-330 bar  
Hydraulic oil capacity (incl. tank) 450 l  
Hydraulic oil tank 380 l

#### Operating data (H6 boom equipment)

Minimal cross section	approx. 18 m <sup>2</sup>
Machine width (with slew cab)	2'500 mm
Maximal height	4'150 mm
Transport height	3'150 mm
Length (dep. on conveyor)	11'250 mm
Width of loading apron (adjust.)	2'300-3'300 mm
Width of conveyor (internal)	770 mm
Height of conveyor (internal)	800 mm
Conveyor capacity	approx. 300 m <sup>3</sup> /h
Conveyor discharge height	3'950 mm
Operating weight	approx. 32 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:

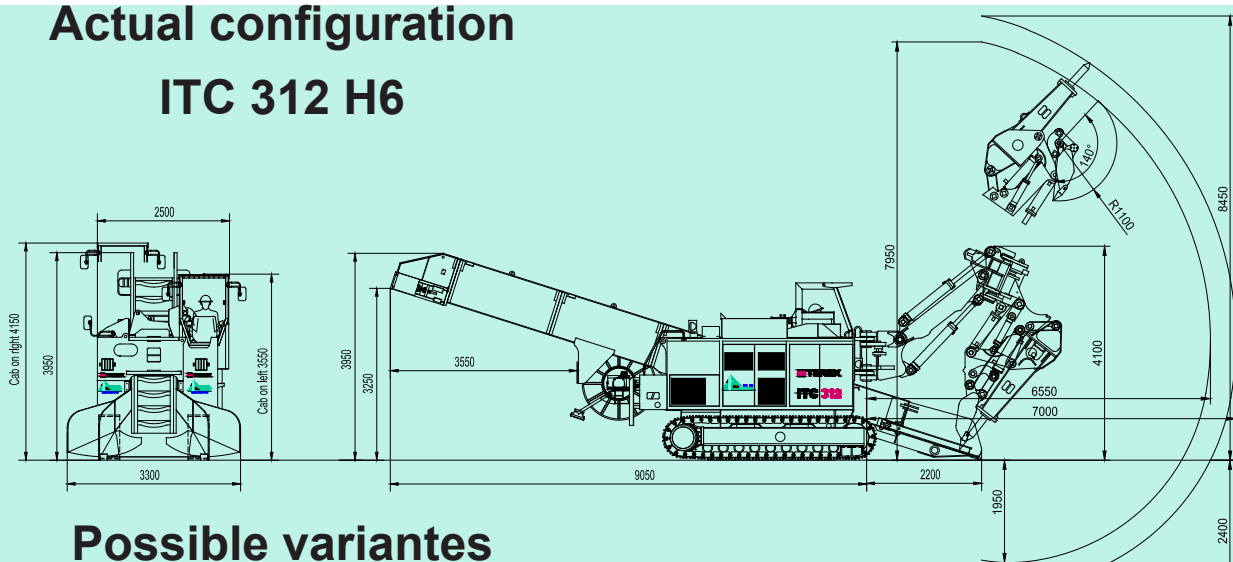
- King post with jib, tilt-swivel console
- Tool holder with a combination of hydraulic hammer and excavation / loading bucket.
- Automatic lubrications system for the hammer.
- Water spraying device
- Breakaway torque 85 kN
- Tear-out force over dipper stick 53 kN
- Lifting power (without working tool) 62 kN

#### Other Equipment

Central greasing, Quick hitch for bucket, no return valve for boom rams, Slew cab on left and right.

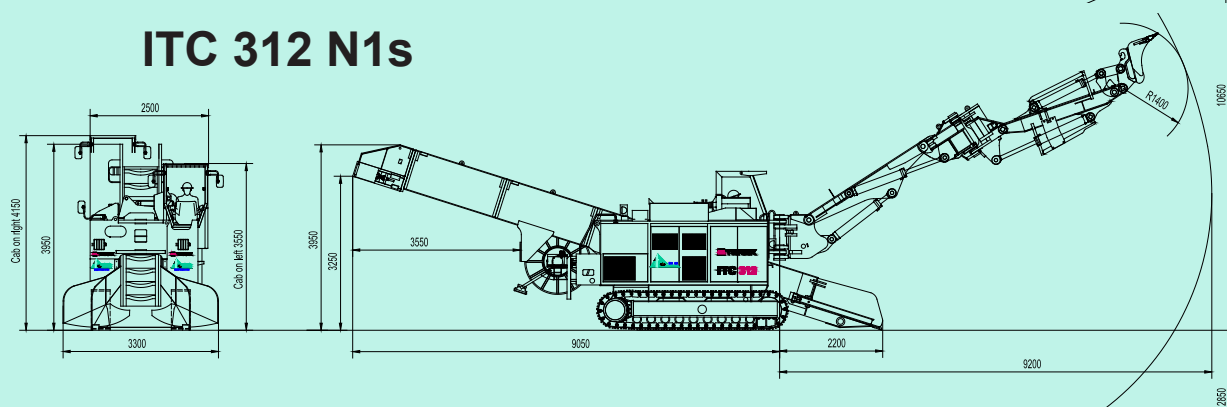
## Actual configuration

### ITC 312 H6

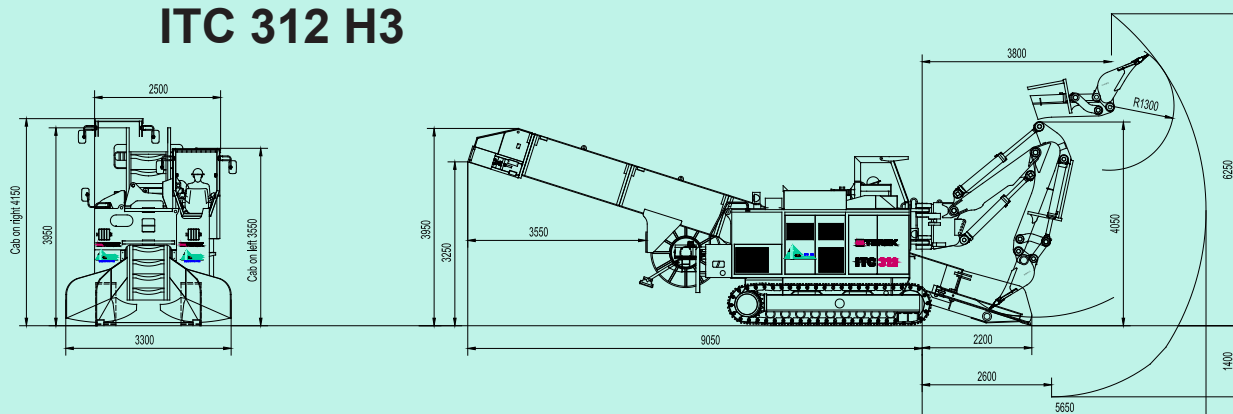


## Possible variantes

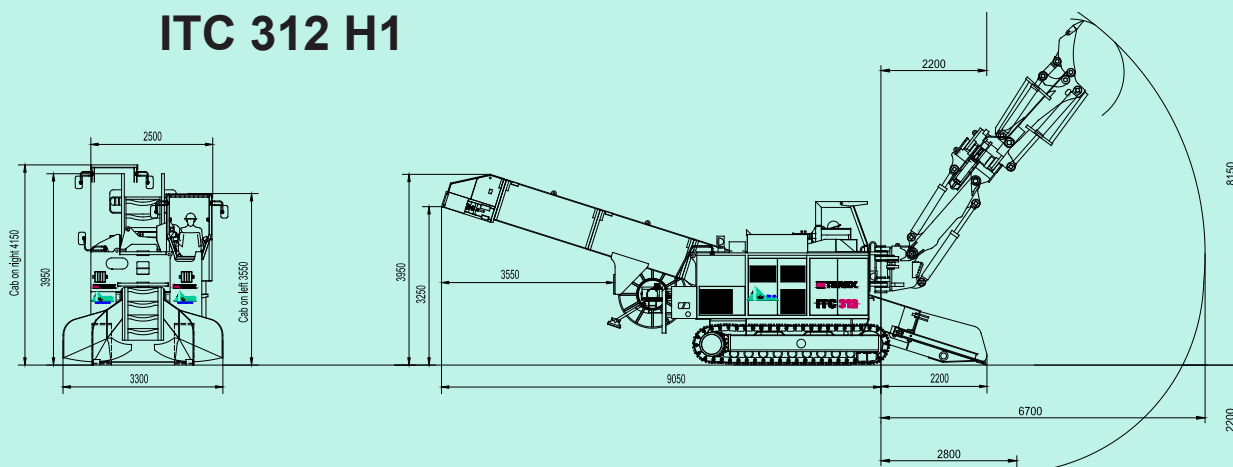
### ITC 312 N1s



### ITC 312 H3



### ITC 312 H1



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