

Tunnel Heading and Loading Machine

Model ITC312 #0398 - H1



Informations

- Excavation boom with swivel dipper stick for heading soft ground.
- Construction year 2006
- Electric drive 1'704 h
- Diesel drive 1'424 h

Technical data ITC 312 – H1

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 132 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 130 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 mm²

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 (H1 boom equipment)

Minimal cross section approx. 18 m²
 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 m³/h
 Conveyor discharge height 3'950 mm
 Operating weight approx. 29 t

Boom Equipment H1

Long boom equipment for excavation and loading of soft ground or blasted material, includes:

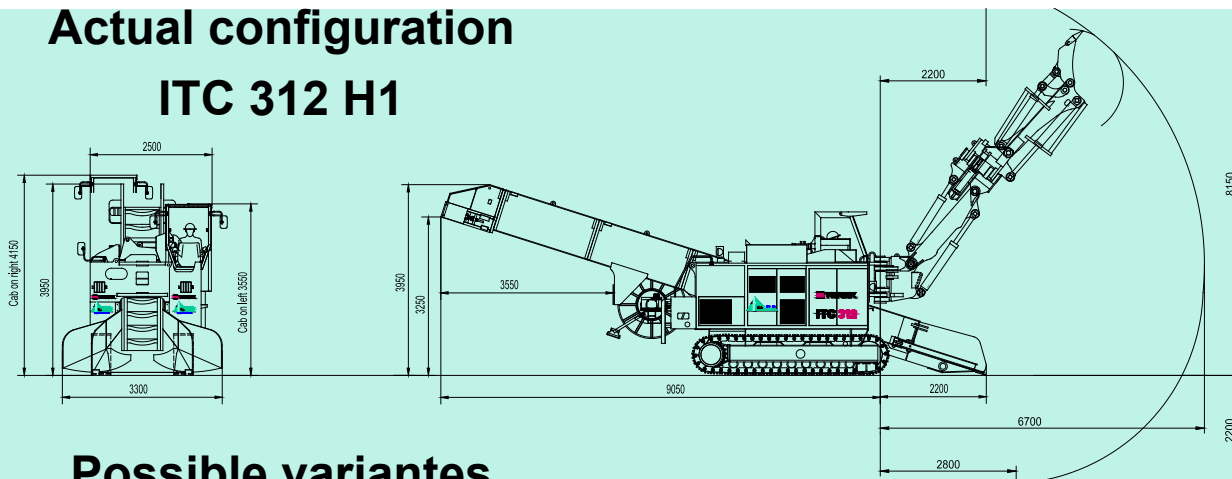
- King post with jib, tilt-swivel console and dipper stick
- Excavation and mucking bucket, width 350 -900 mm
- Hydraulic circuit for a hydraulic rock breaker
- Loading capacity acc. to rock conditions approx. 3 m³/min
- Breakaway torque 139 kN
- Tear-out force over dipper stick 68 kN
- Lifting power (without working tool) 10 kN

Other Equipment

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

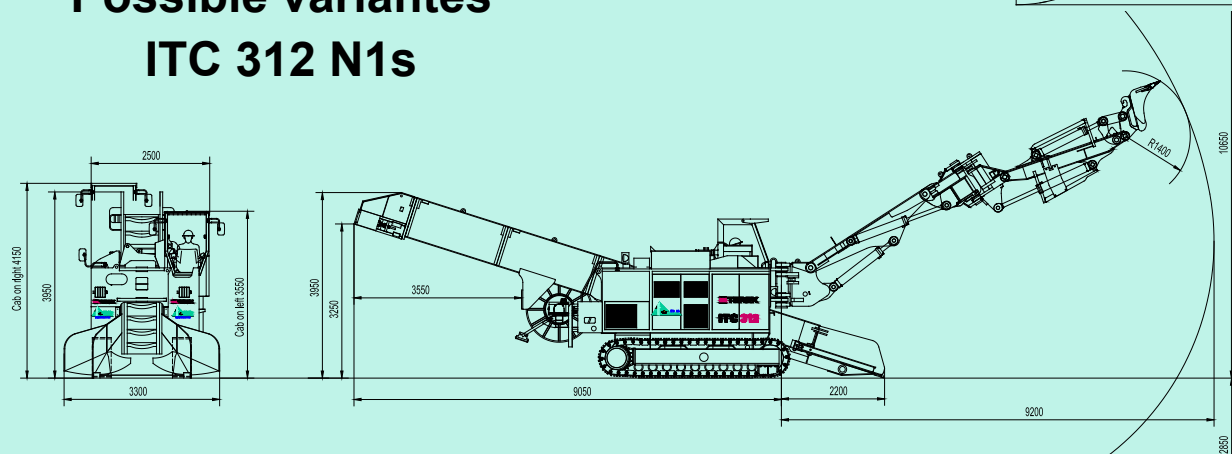
Actual configuration

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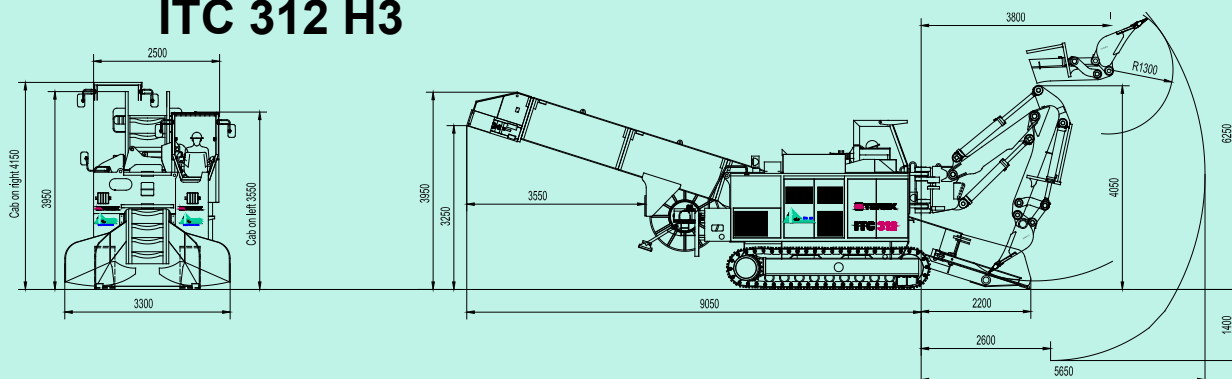


Possible variantes

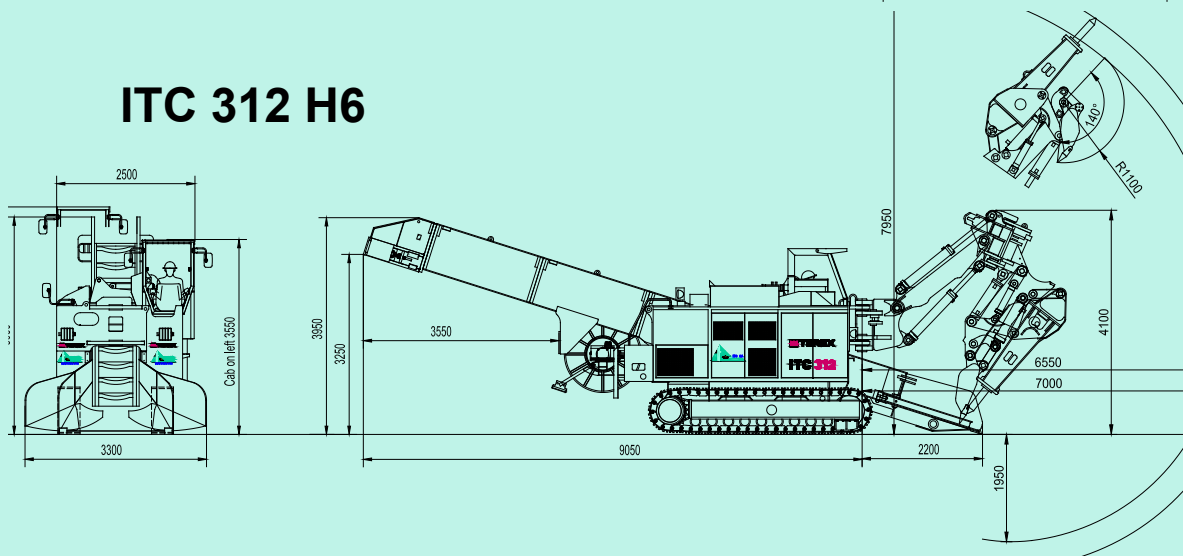
ITC 312 N1s



ITC 312 H3



ITC 312 H6



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