

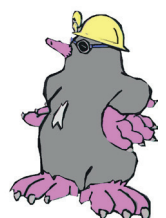
TUNNEL HEADING AND LOADING MACHINE

ITC 315N H6



image not contractual, may contain optional equipment.

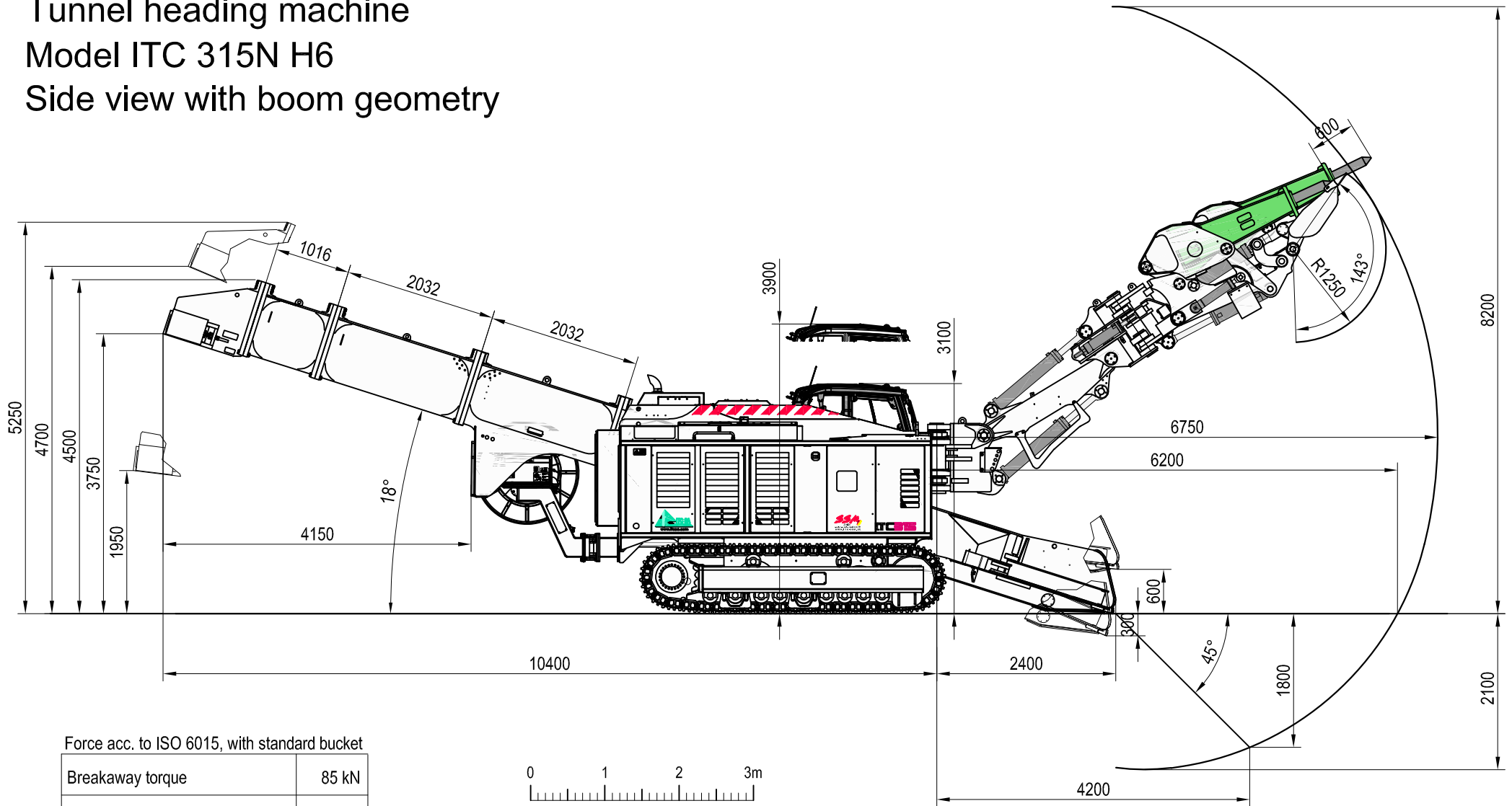
- Excavation boom equipment with rock breaker / bucket combination for tunnelling in soft and medium hard ground conditions by using bucket and hydr. hammer
- Minimal cross-section approx. 18 m²
- Thermal drive 180 kW
- Electric drive 110 kW
- Operating weight 37,8 t



Tunnel heading machine

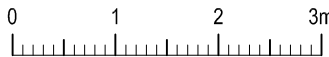
Model ITC 315N H6

Side 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



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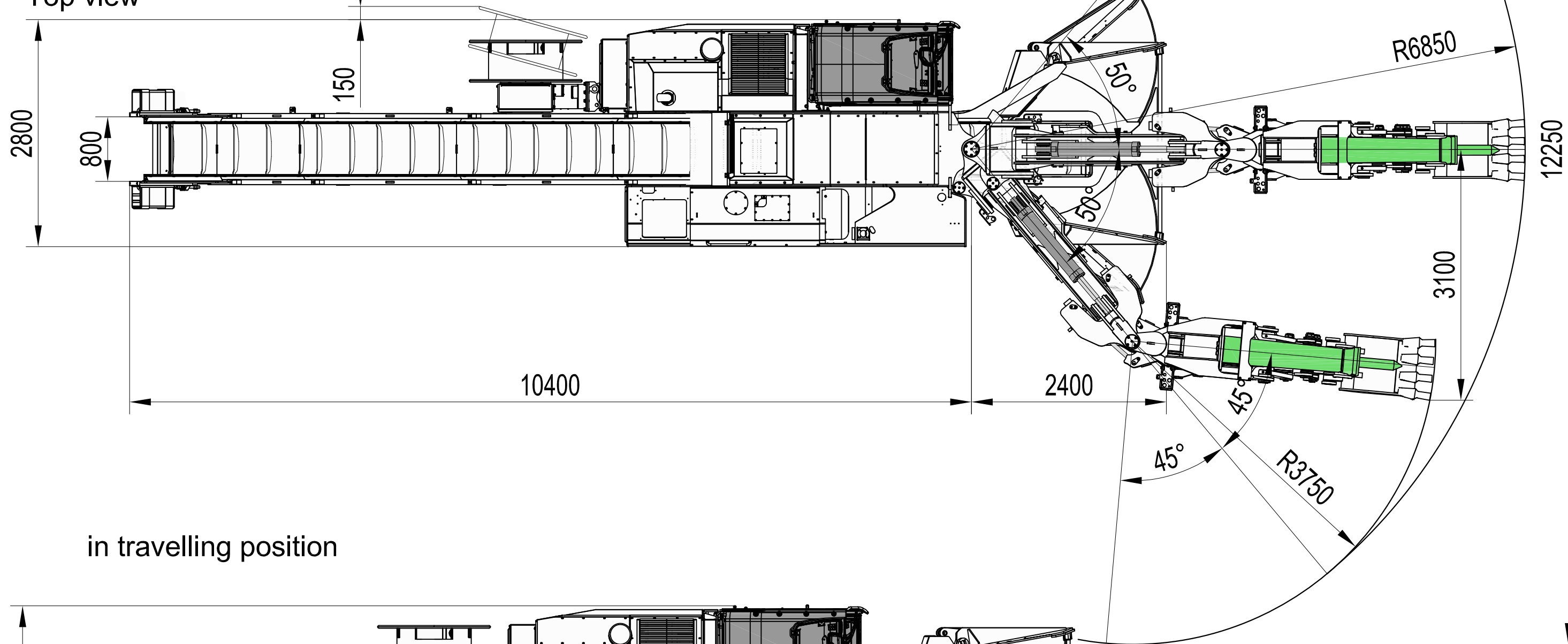
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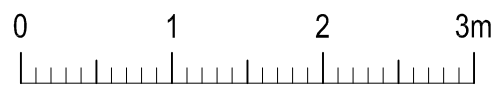
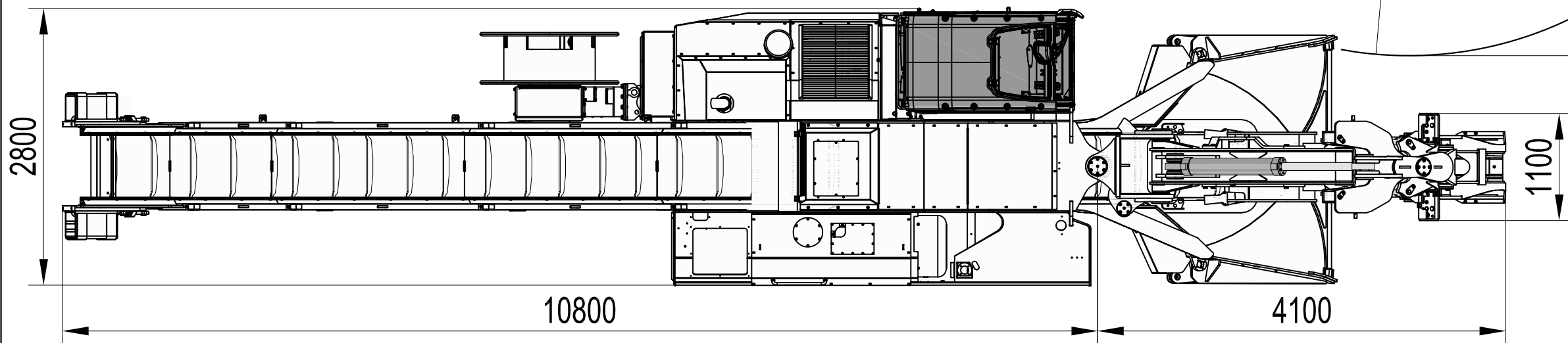
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Tunnel heading machine
Model ITC 315N H6
Top view

in working position



in travelling position



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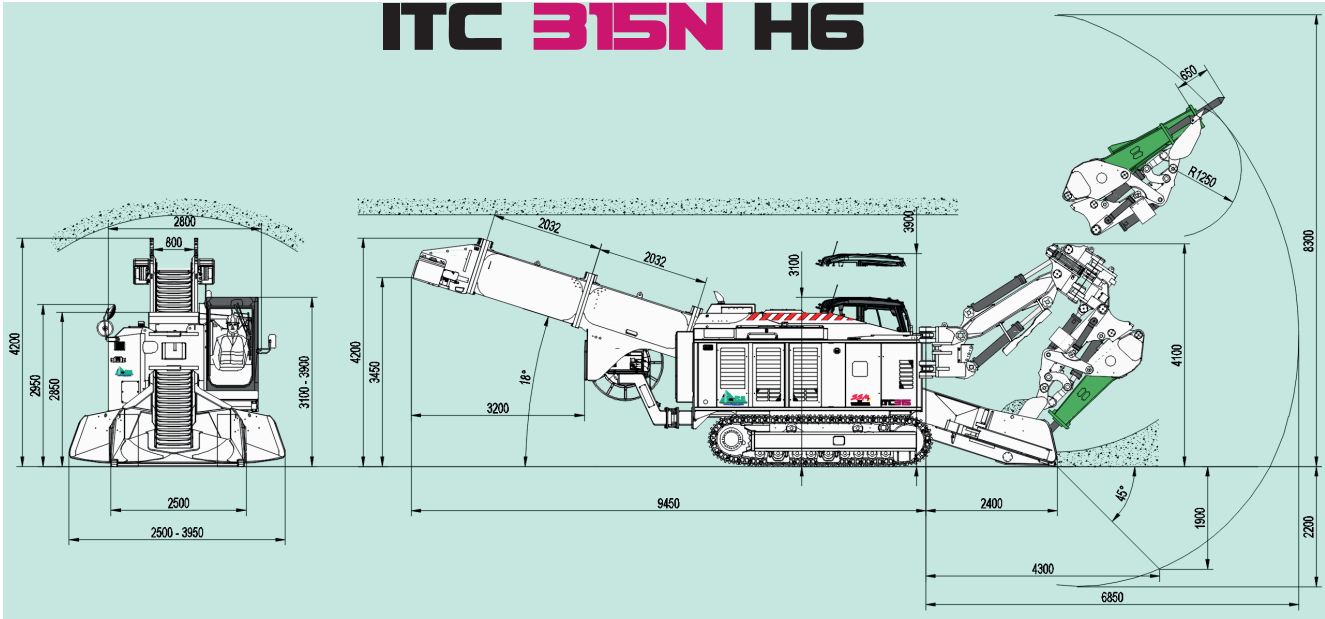
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ITC 315N H6



Technical data ITC 315N 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 110 kW
 Diesel drive for travelling and operation without electric supply.
 Water-cooled diesel engine, Deutz TCD 6.1
 Diesel engine complies with emission standard: EU V ready, US T4f,
 Option : ROW
 Power rating at 2'300 r.p.m 180 kW
 Fuel tank 420 l

Electrical system (other tension and frequency upon request)

Total installed power 140 kW
 Voltage (standard) 400 V - 50 Hz AC
 Pilot voltage 220 V CA
 Control voltage thermic drive 24 V CC
 Electrical system acc. to EN 60529 (IP54)
 Cable reel hydraulically driven with abt 75 m cable capacity

Operator's stand

Comfortable Volvo closed cab gives all-round visibility, FOPS canopy and front protection grid.
 Air conditioning.
 CE conformity incl. video monitoring system for the right and rear side with color LCD in the cab.

Hydraulic system

Load Sense hydraulic system with combination of a double 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 capacity 400 l
 Pump delivery Diesel engine 520 l/min
 Pump delivery Electric motor 540 l/min
 Hydraulic oil capacity (incl. tank) 500 l

Operating data

Machine width 2'800 mm
 Maximal height 3'100 - 3'900 mm
 Transport height 3'200 mm
 Transport length with folded equipment ~13'000 mm

Conveyor system

Width of loading apron (adjust.) 2'500 - 3'950 mm
 Width of conveyor (internal) 800 mm
 Height of conveyor (internal) 800 mm
 Conveyor capacity approx. 300 m³/h
 Conveyor discharge height 2'500-3'800 mm

Boom H6

- Minimal cross section approx. 18 m²
- 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
- Operating weight 37,8 t

Options (different possibilities on order)

Elevator cabin, conveyor extension elements, rubber plate conveyor, automatic grease central, automatic fire extinguisher system, quick couplers, other loading and / or excavation tools, water spraying system for dust reduction with hose reel, Electric motor 132kW, etc.

Other details, executions (ATEX) and accessories on request.
 Subject to change without notice.

