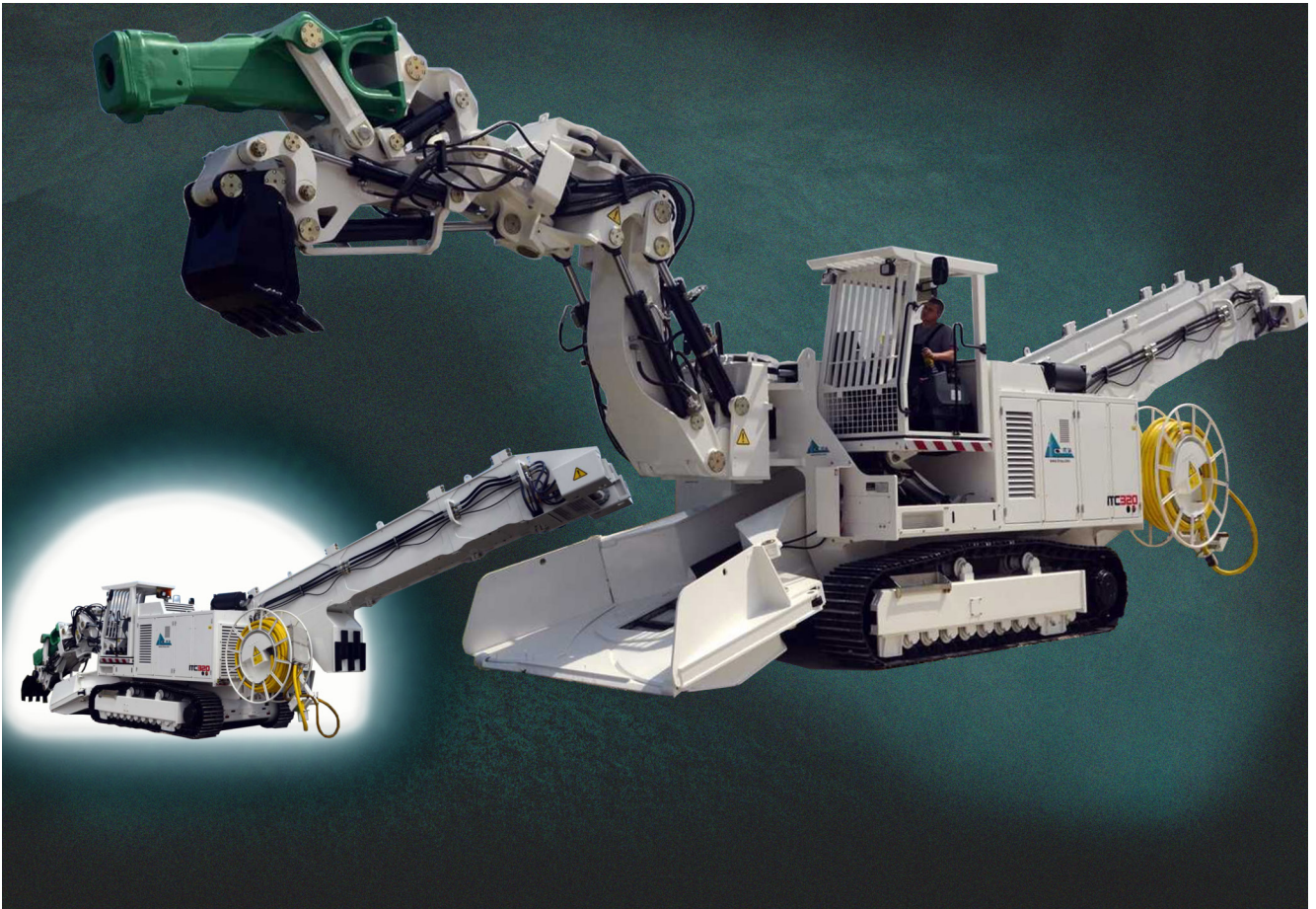


TUNNEL HEADING AND LOADING MACHINE

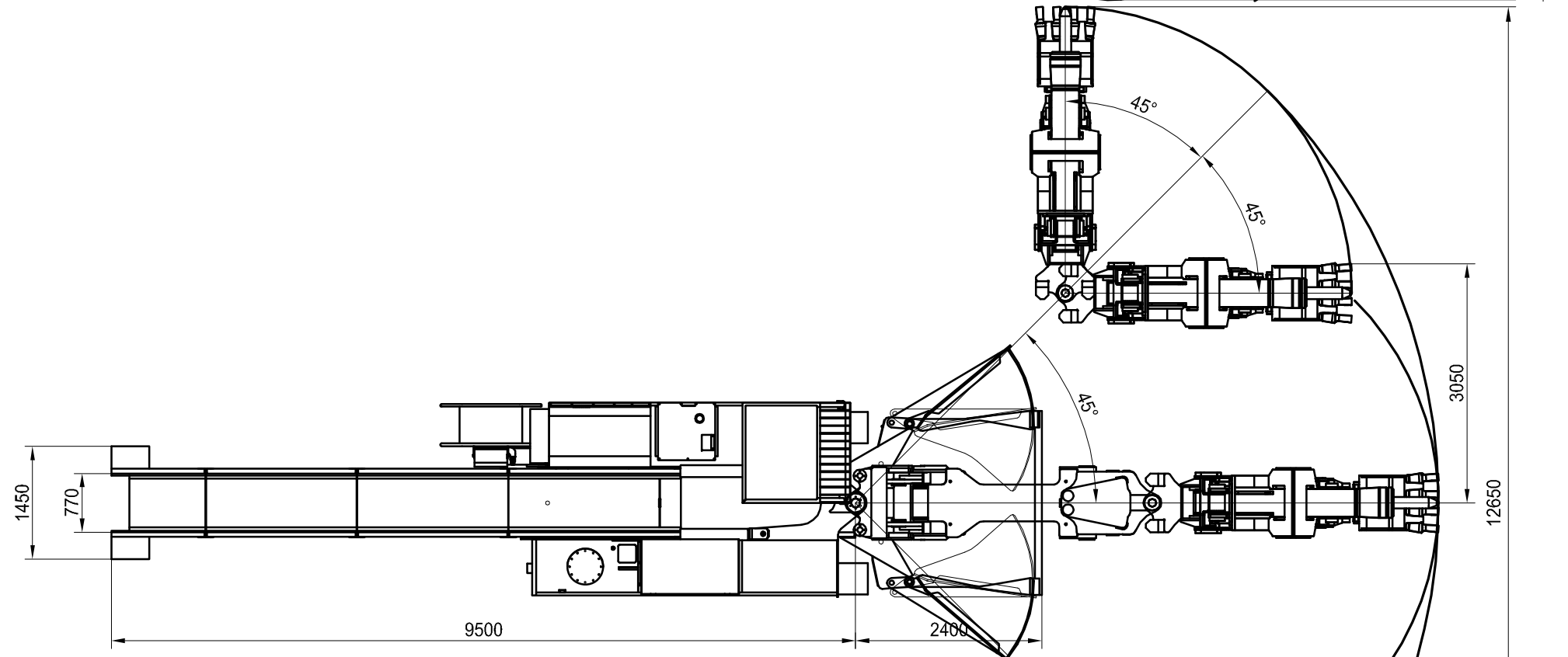
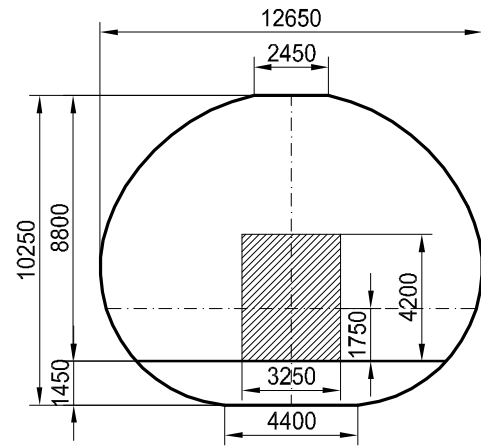
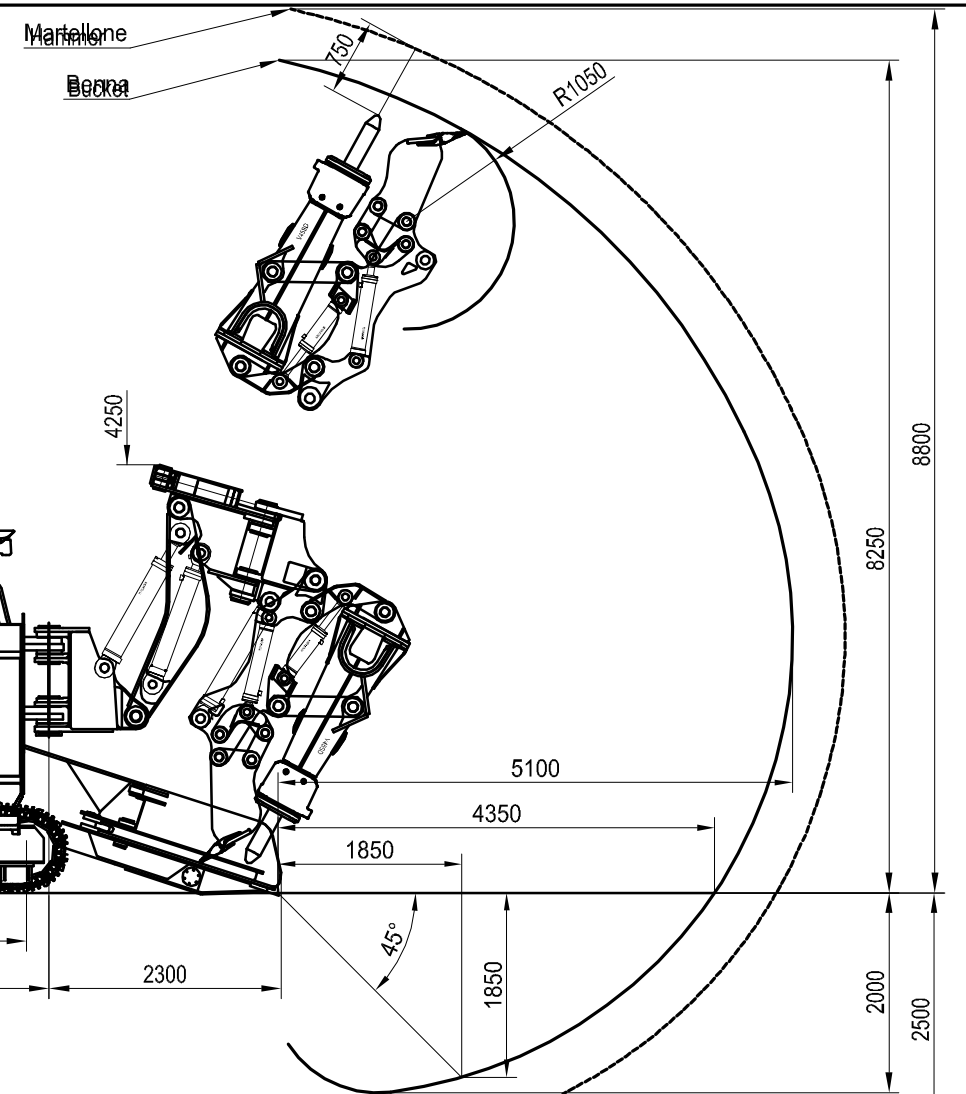
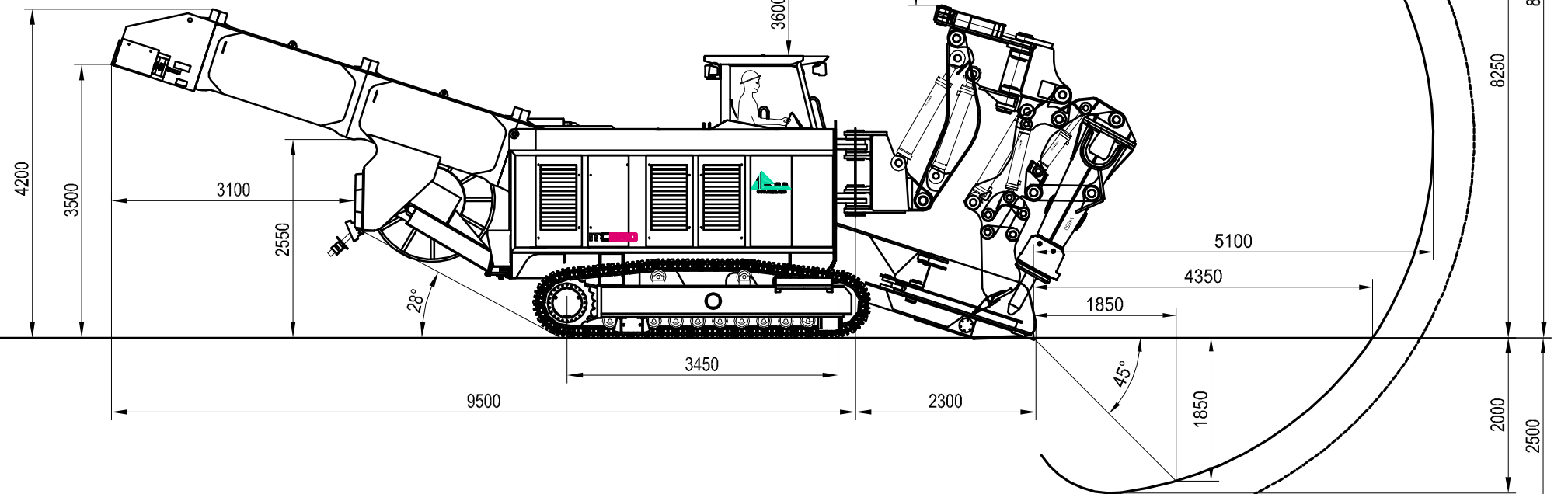
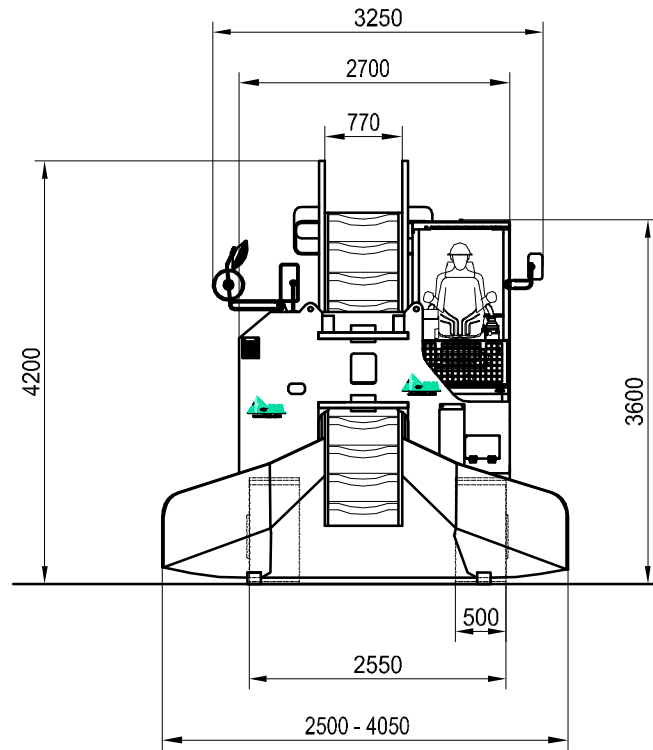
ITC 320 - V45



- 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
- Diesel drive 165 kW
- Electric drive 132 kW
- Operating weight approx. 45 t

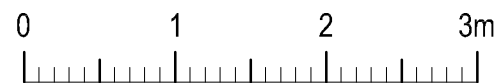


Tunnel Heading and Loading machine
 Model ITC 320 V45
 Front and side view with Boom geometry



Force acc. to ISO 6015, with standard bucket

Breakaway torque	93 kN
Tear-out force over console	62 kN
Tear-out force over dipper stick	80 kN
Lifting power (without working tool)	5 kN
Specific ground pressure	14,5 N/cm ²
Global weight	45 t



Produced by ITC GmbH & Co.KG

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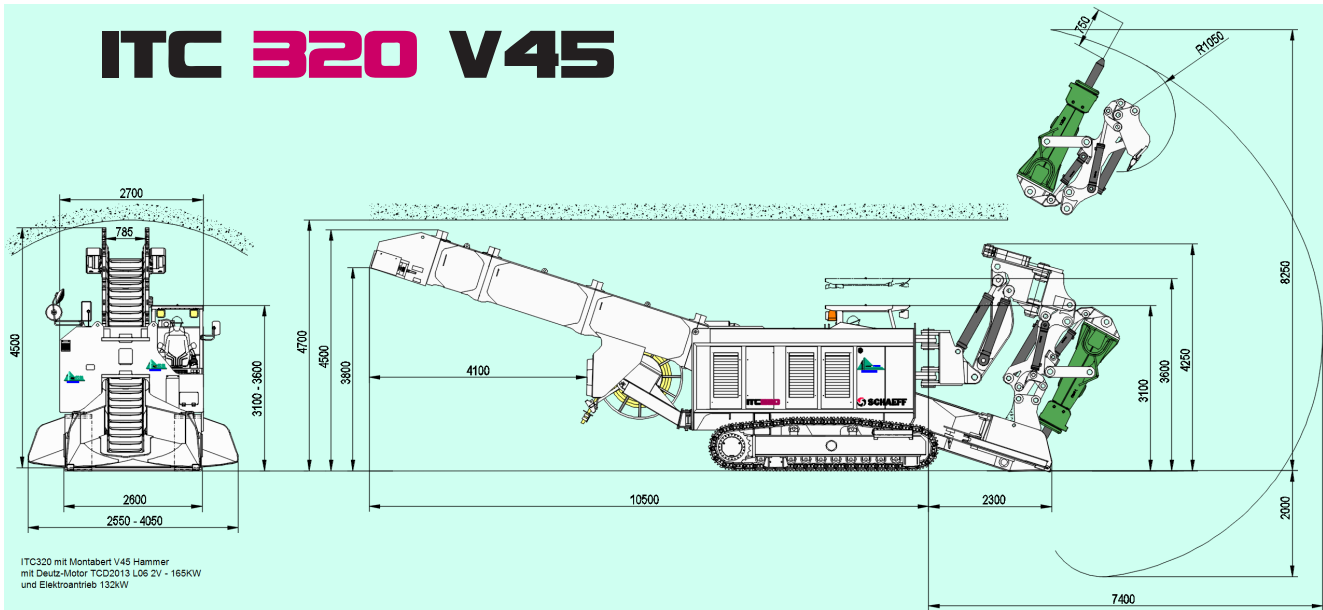
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CH-1920 MARTIGNY
 Tf: +41 277 222 191
 Fax: +41 277 222 185
 info@itcsa.com

ITC 320 V45



Technical data ITC 320-V45

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 TCD2013 L06 2V
 Power rating 165 kW
 Diesel engine complies with emission standard Euro St. 3a

Electrical system

Total installed electric power approx. 140 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 75 m cable 3x150+3x35 mm²

Operator's cab

The operator stand with hydraulic vertical adjustment (500 mm) permit optimal all-round visibility. Alternatively open FOPS canopy with frontguard or optionally closed cab.
 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 twin axial piston pumps.
 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
 Pump oil flow 540 l/min
 Hydraulic oil capacity (incl. tank) 600 l
 Hydraulic oil tank 450 l

Operating data (V45 boom equipment)

Minimal cross section	approx. 18 m ²
Minimal operation height	4'800 mm
Machine width	2'700 mm
Maximal height over raised cab	3'650 mm
Transport height	3'150 mm
Transport length	approx. 16'000 mm
Width of loading apron (adjust.)	2'500-4'000 mm
Width of conveyor (internal)	785 mm
Height of conveyor (internal)	875 mm
Conveyor capacity	approx. 250 m ³ /h
Conveyor discharge height	2'500-3'500 mm
Operating weight	approx. 45 t

Boom Equipment V45

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

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

Other Equipment

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

Further details of attachments and accessories available upon request.

Subject to modification without prior notice.



ITC SA

www.itcsa.com info@itcsa.com ☎ +41 277 222 191