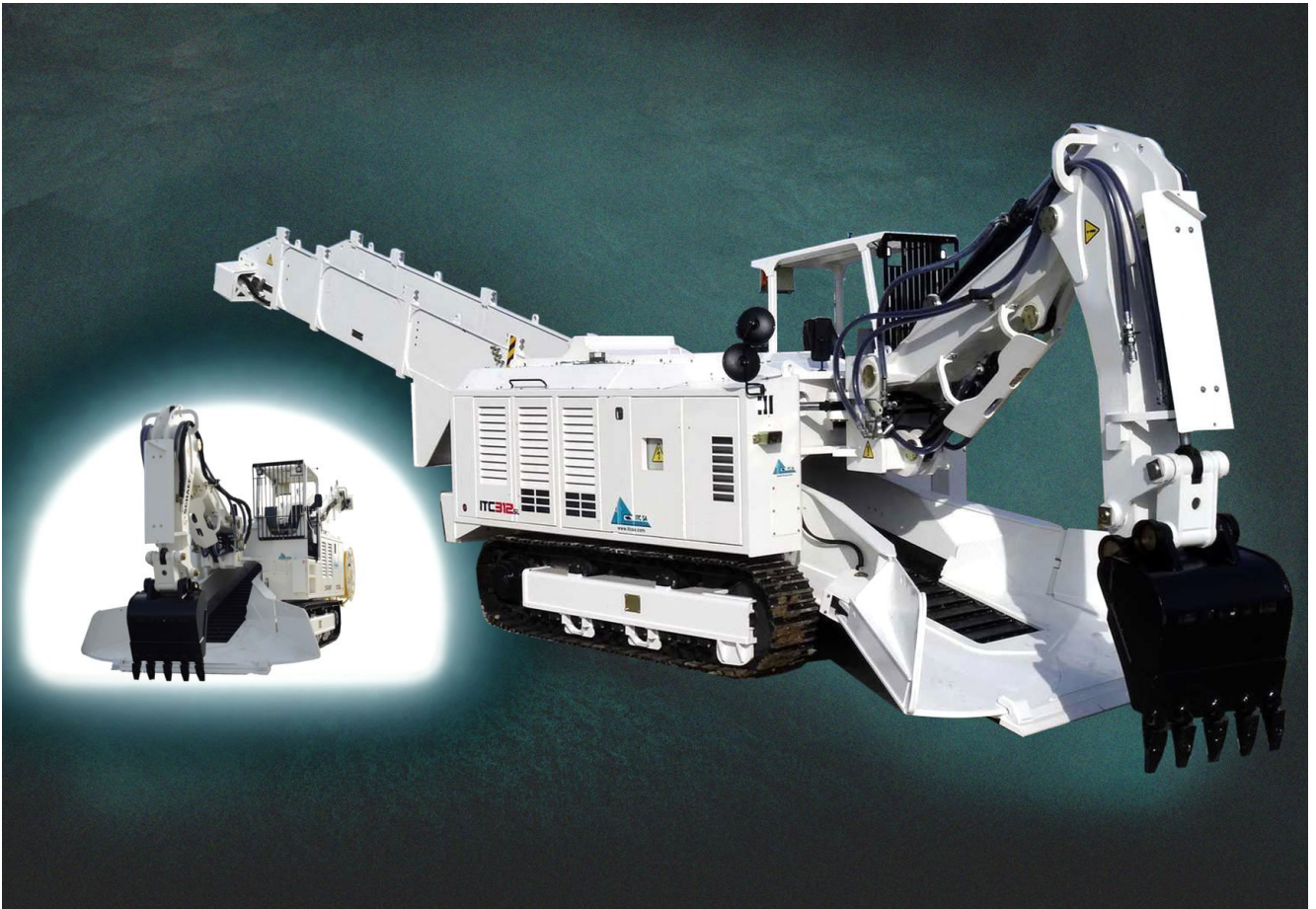


## TUNNEL LOADING MACHINE

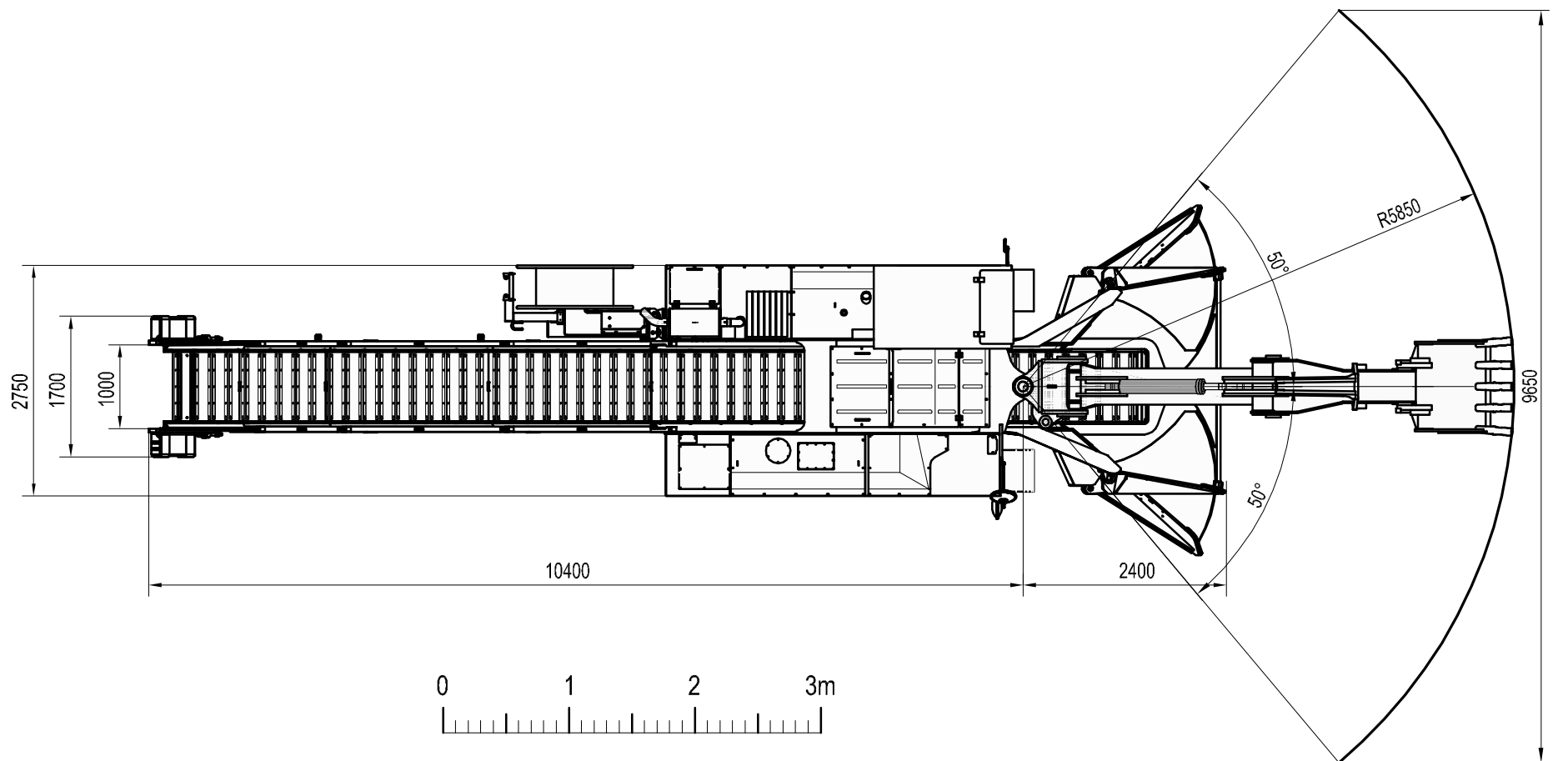
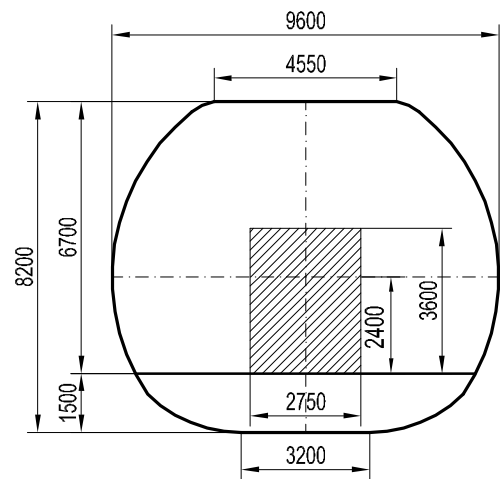
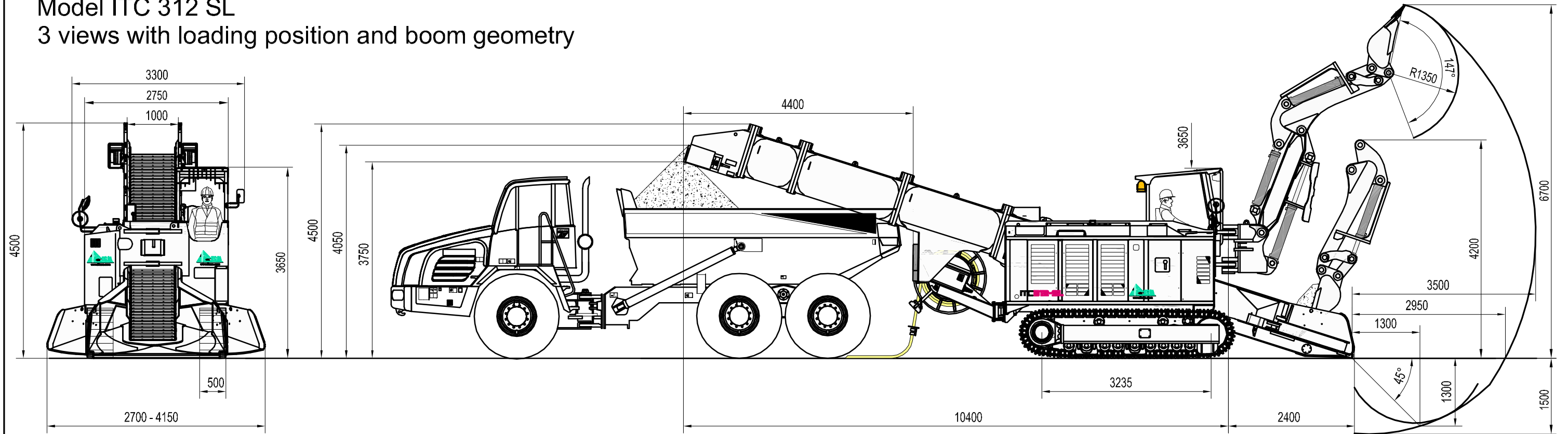
# ITC 312 - SL



- For heading in soft ground and high speed mucking of blasted rock
- Minimal cross section approx. 17 m<sup>2</sup>
- Diesel drive 165 kW
- Electric drive 110 kW
- Operating weight approx. 40 t

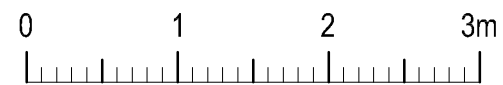


Tunnel Superloader  
 Model ITC 312 SL  
 3 views with loading position and boom geometry



Force acc. to ISO 6015, with standard bucket

Breakaway torque	119 kN
Tear-out force over dipper stick	96 kN
Lifting power (without working tool)	20 kN
Specific ground pressure	12,1 N/cm <sup>2</sup>
Global weight	41,4 t



**S550**

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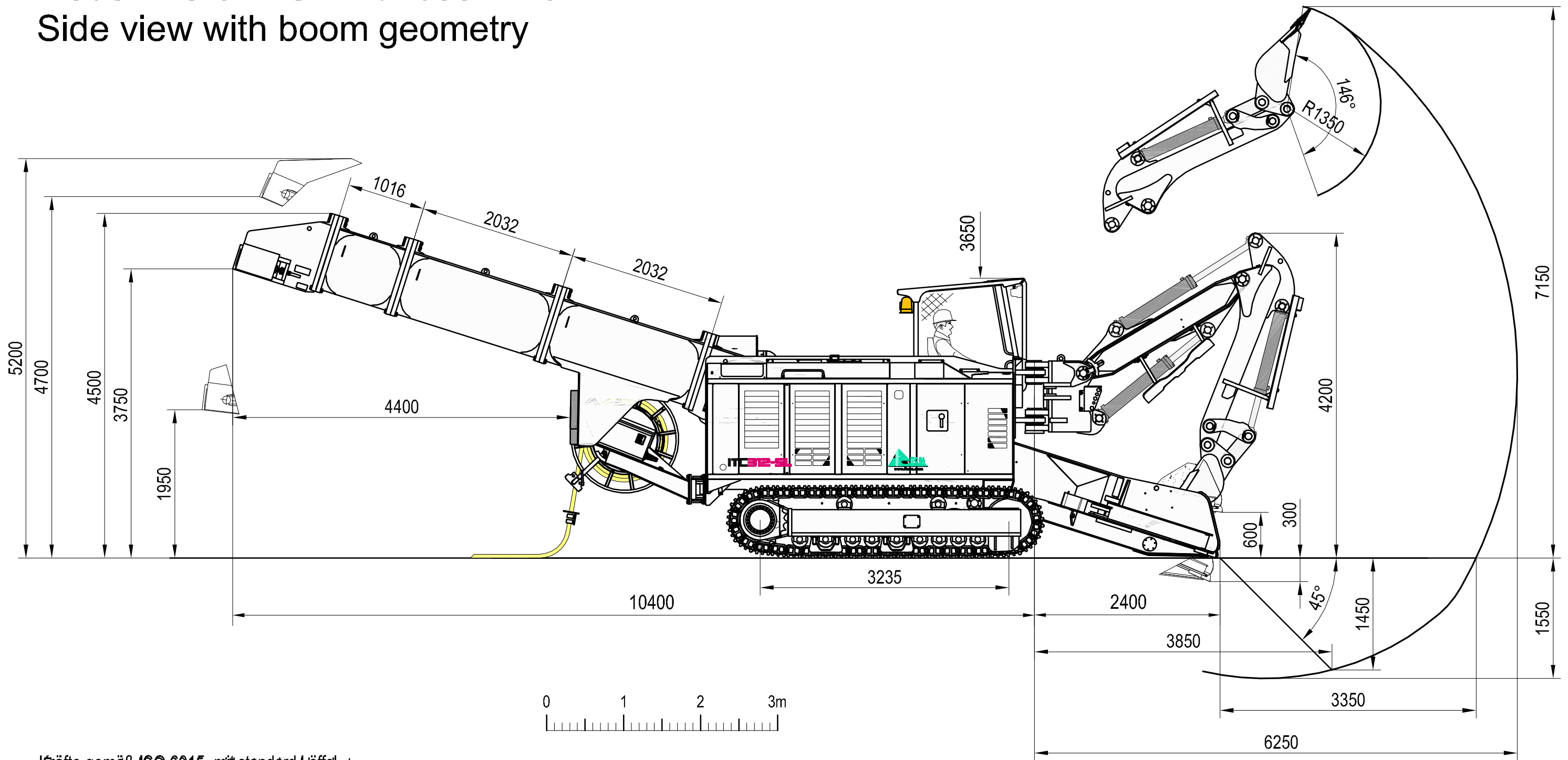


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# Tunnel loading machine

## Model ITC 312 SL with boom H3-L

### Side view with boom geometry



Kräfte gemäß ISO 6015, mit standard Löffel

Bruchkraft	119 kN
Reisskraft über dipper stick	96 kN
Hilfskraft (mit Werkzeug)	20 kN
Spezifischer Bruchdruck	12,1 N/cm <sup>2</sup>
Gesamtgewicht	41,4 t

Produced by ITC GmbH & Co.KG

# S559

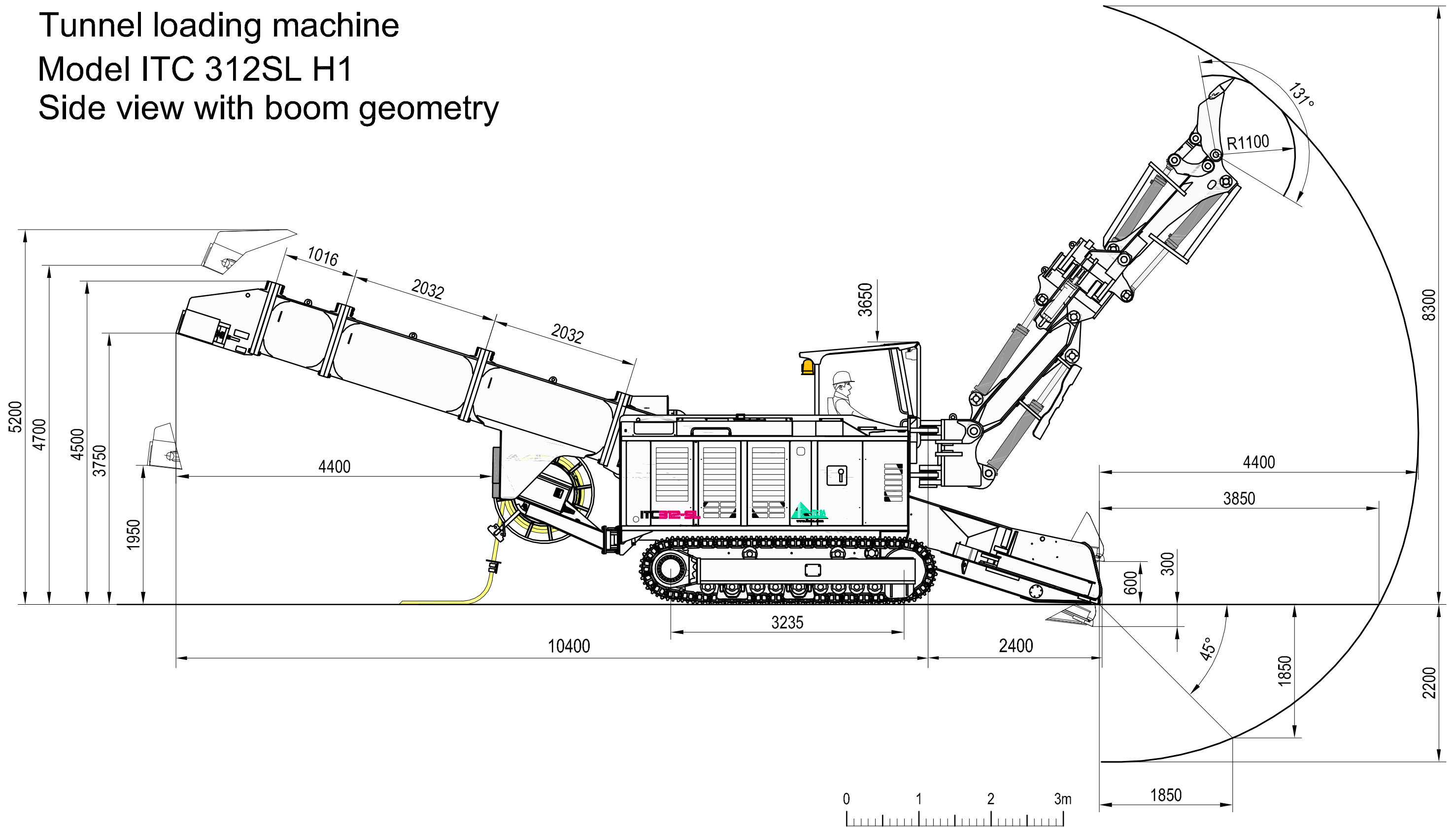
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Tunnel loading machine  
 Model ITC 312SL H1  
 Side view with boom geometry



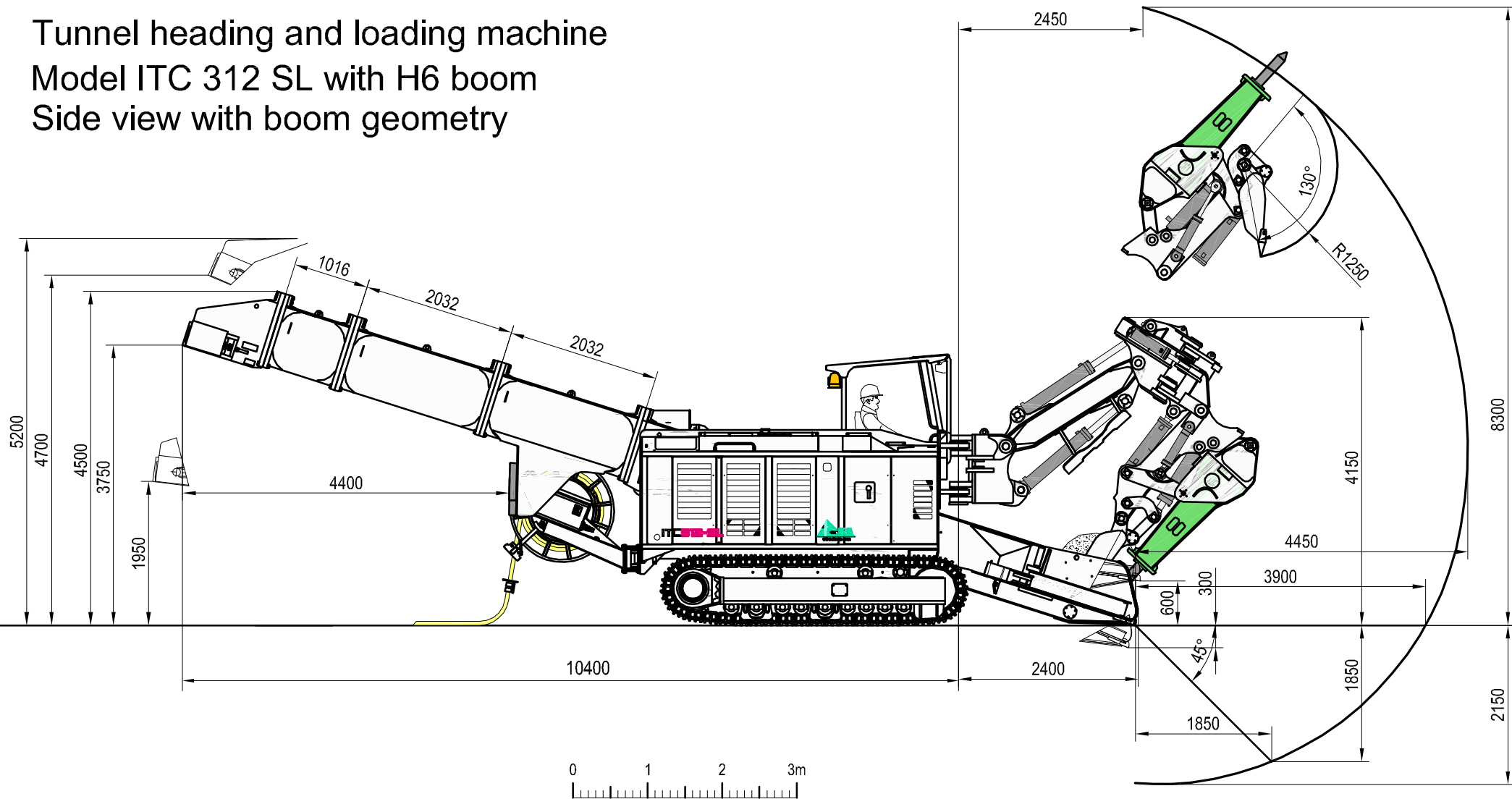
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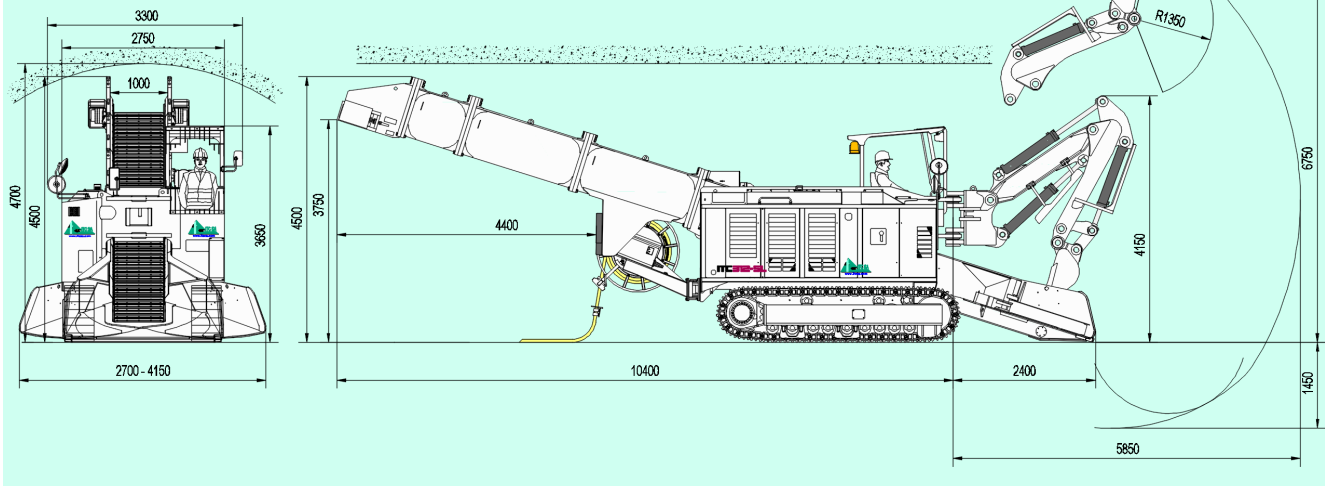
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Tunnel heading and loading machine  
 Model ITC 312 SL with H6 boom  
 Side view with boom geometry



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# ITC 312 SL



## Technical data ITC 312 - SL

### 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 TCD2013 L06 2V  
 Power rating at 2'000 r.p.m 165 kW  
 Diesel engine complies with emission standard Eur St. 3a

### Electrical system

Total installed power 115 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 85 m cable 3x120+3x25 mm<sup>2</sup>

### Operator's cab

FOPS 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

One axial piston double pump in swash plate design with constant power control for travelling and main working functions. One gear pump for pilot pressure supply.  
 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

Minimal cross section approx. 17 m<sup>2</sup>  
 Machine width 2'750 mm  
 Maximal height 3'650 mm  
 Transport height 3'350 mm  
 Length (dep. on conveyor) ~13'000 mm  
 Width of loading apron (adjust.) 2'700-4'100 mm  
 Width of conveyor (internal) 1000 mm  
 Height of conveyor (internal) 800 mm  
 Conveyor capacity approx. 600 m<sup>3</sup>/h  
 Conveyor discharge height 2'500-3'500 mm  
 Operating weight approx. 40 t

### Boom Equipment SL

Boom equipment for loading of soft ground or blasted material, includes:

- King post with jib and dipper stick
- Excavation and mucking bucket, width 600 - 1200 mm
- Hydraulic circuit for a hydraulic rock breaker
- Loading capacity acc. to rock conditions approx. 4 - 10 m<sup>3</sup>/min

### Other Equipment

It is possible to attach a range of ancillary equipment, such as pony truck, roller chain conveyor, transverse cutting unit, soot particle filter, central lubrication device, etc.

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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