TUNNEL LOADING MACHINE

ITC 312 - SL

- For heading in soft ground and high speed mucking of blasted rock
- Minimal cross section: approx. 17 m²
- 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
Tunnel loading machine
Model ITC 312 SL with boom H3-L
Side view with boom geometry
Tunnel loading machine
Model ITC 312SL H1
Side view with boom geometry
Tunnel heading and loading machine
Model ITC 312 SL with H6 boom
Side view with boom geometry
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 mm²

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 m²
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) 1'000 mm
Height of conveyor (internal) 800 mm
Conveyor capacity approx. 600 m³/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 m³/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.