

HEPP Innvik

Head- and tailrace tunnels to the local power plant (15 MW) in the west part of Norway

NCC **NEWS**
-28-2006

Tunnel Loading Machine Terex | Schaeff **ITC 312 H3**

High speed mucking in Norway's hard rock



The loading machine Schaeff model ITC 312 by cleaning the invert in 1:8 incline



The loading machine Schaeff model ITC 312 H3 upon arrival on job site

The weekly advance rate in the 1:8 incline is in average 90 meters with peak value at 100 meters including the support works.



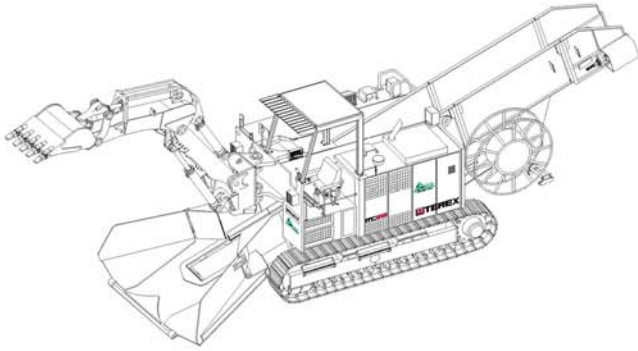
Scaling the loosed blocks



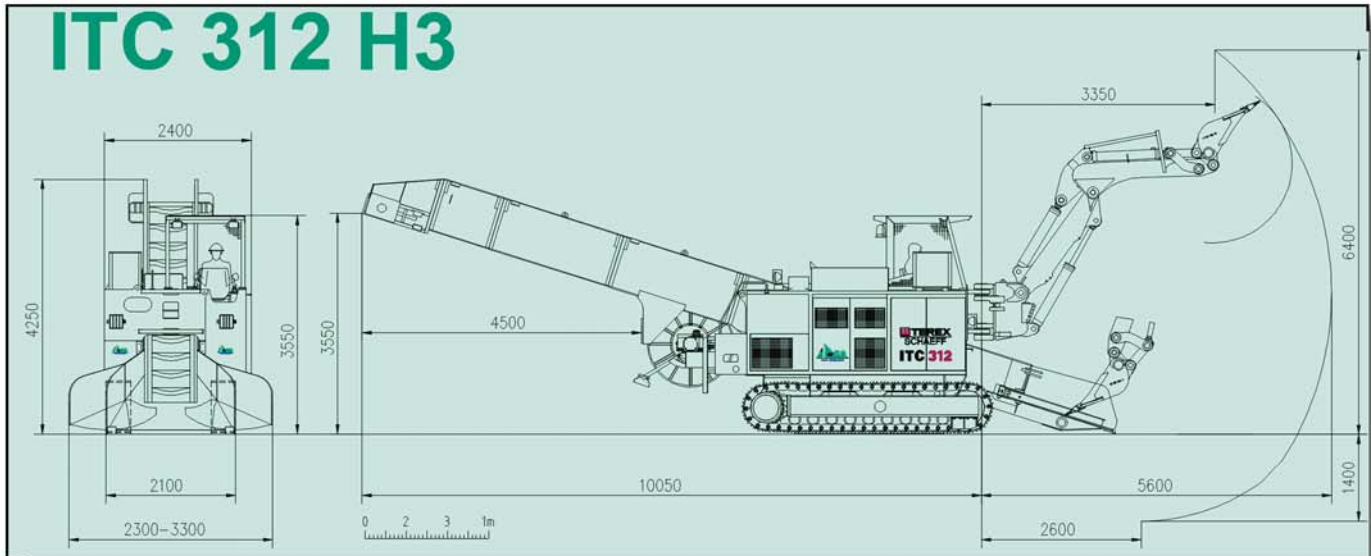
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The loading machine cleaning the niche.



MAIN DATA

Base Machine: Schaeff type	ITC	312
Maximum chassis width:	mm	2400
Apron throat width	mm	770
Electric drive power (690V-50Hz)	kW	90
Diesel Engine	Deutz	Typ BF6M
914	Power output	
kW		130
Driving speed:	km/h	0-3,6
Conveyor chain speed:	m/s	0.5
Loading capacity	m ³ /min	3-5
Specific ground pressure:	kp/cm ²	1.0
Traction power:	kN	280
Weight	t	28



The loading machine ITC 312 while loading onto 18 m³ trucks



The loading machine ITC 312 while scaling

Scalen of the working face and roofridges during the stop when waiting on the next truck saves enormously time and costs. The electrically propelled ITC 312 provides better conditions of work locally and reduces substantially the ventilation costs in the tunnel.



The loading machine ITC 312 while mucking at high speed