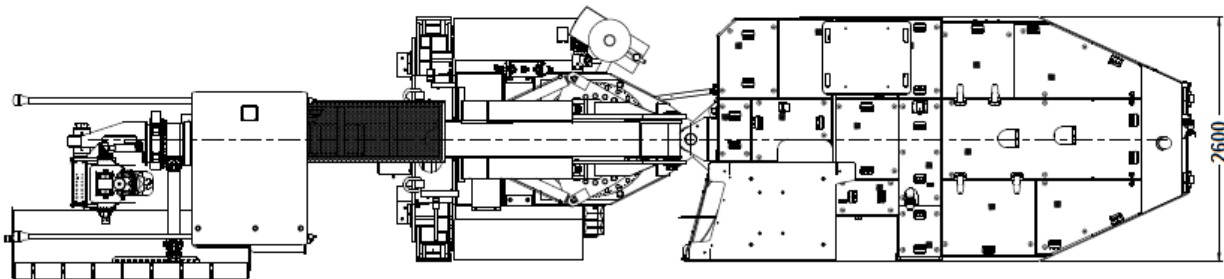
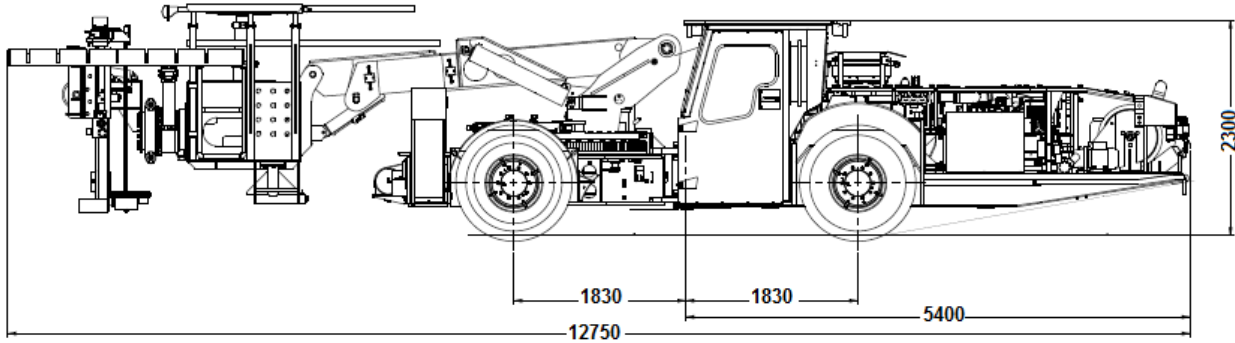
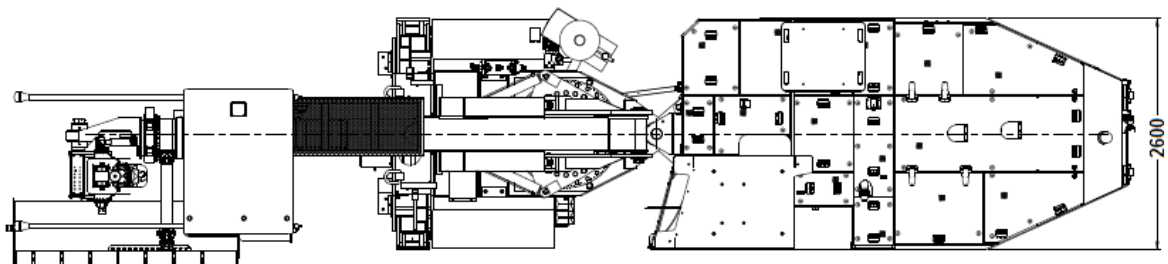
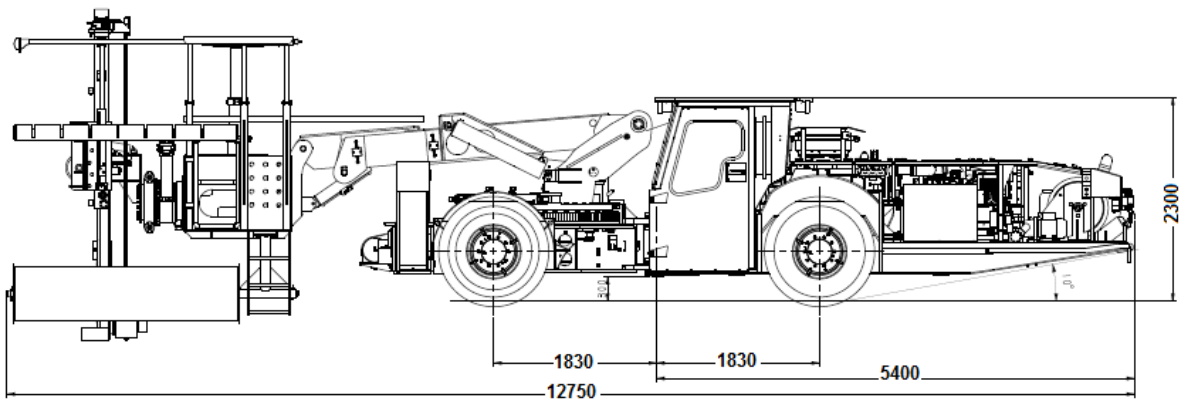


**ROOF MASTER 2.3**

*High reach roof bolter*



**Machine in tramming position.**

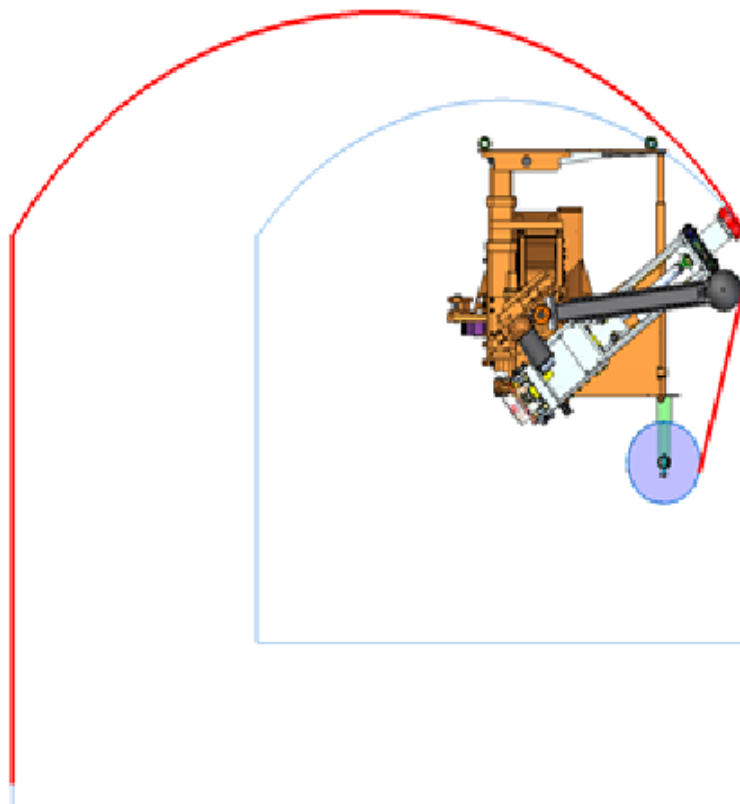


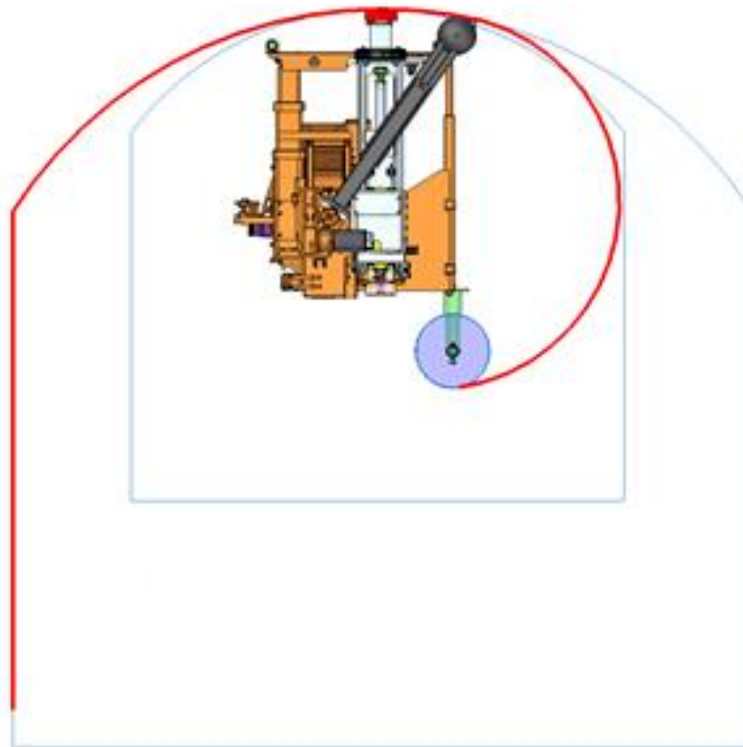
**Machine ready for operation**

### DESCRIPTION

- Drilling system enables holes of between 25 to 38 mm dia. to be drilled to up to 15.0m depth (depending on drilling and strata conditions).
- 6.0m straight line drill coverage.
- “Man in Position” drilling system – locates the operator close to the drilling and bolting operations and his protected by an MSHA. Doubled full control system to drill from Driving cabin.
- Certified closed, air conditioned driving cabin, where operator will have the possibility to drill bolting holes. Bolt installation has to be done from operator basked, located at the end of boom.
- Capable of bolting in height of up to 7,0 m
- Machine ready to install mechanic expansion shell bolts, resin bolts and cement grouted bolts as well as wire mesh, prepared in rolls 2,5m x 15m.
- Minimum tramming height: 2.3m.
- Ergonomic, fully adjustable, operator seat with suspension. Operator’s driving cabin conforming to FOPS & ROPS regulations.
- Reliable hydraulic controls – ensuring low operating costs and high performance.
- Diesel powered articulated chassis with permanent 4-wheel drive.
- Fail-safe, wet multi-disc service brakes with additional fail-safe emergency-parking brake.
- Inch tramming – slow driving of the machine from one to another bolting row, controlled from operator’s stand, located at the end of working boom.
- Steel grid side protection of operator’s stand.

**Mesh handler with wire mesh in roll, prepared for side bolting.**





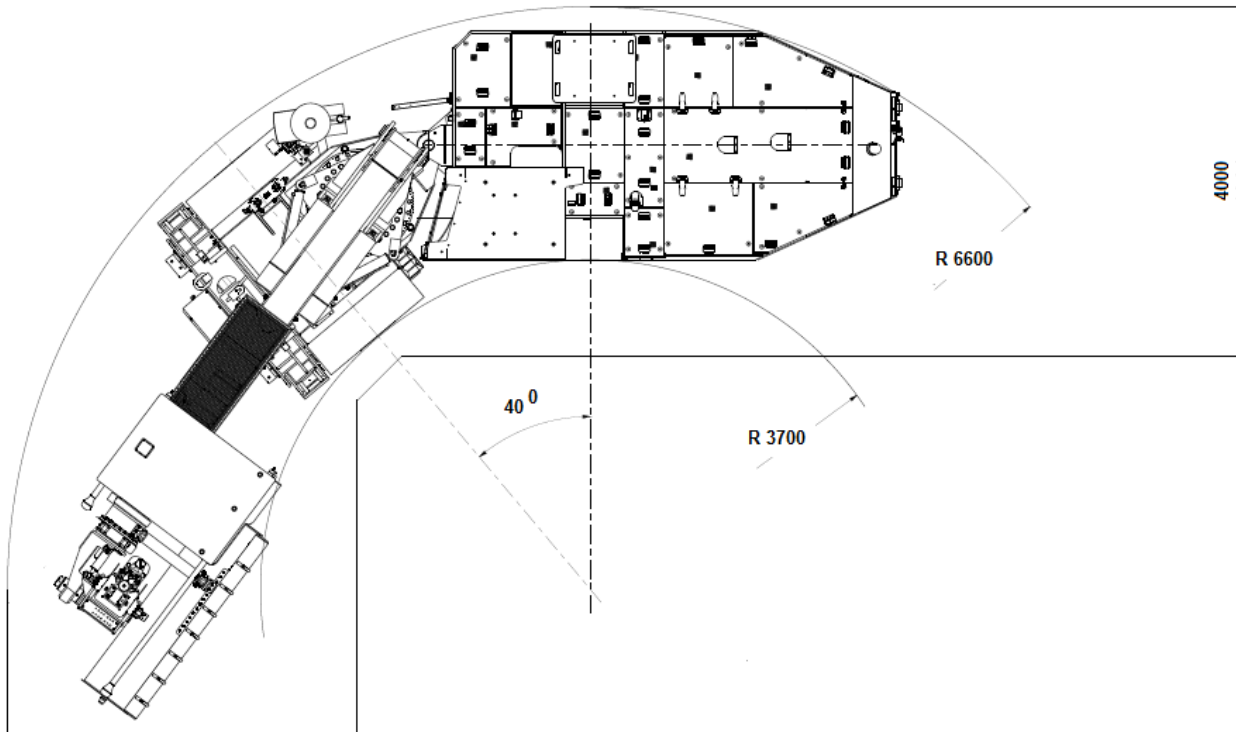
Mesh handler with wire mesh in roll, with roll mesh on hooks (preparation step).

**MAIN COMPONENTS**

<b>Boom with Mast</b>	Telescopic AR D/E boom with “Roof Referenced” type mast
<b>Diesel engine</b>	Deutz TCD2013L04 - 115 kW @ 2300 rpm
<b>Tires</b>	14.00 x 20

**FEATURES**

<b>WEIGHT</b>	28 500 kg
<b>DIMENSIONS</b>	
<b>Length</b>	12 750 mm
<b>Width</b>	2600 mm
<b>Height</b>	2300 mm
<b>Turning radius</b>	R <sub>i</sub> = max. 3700 mm R <sub>o</sub> = max. 6600 mm
<b>Minimum width of the heading</b>	4000 mm



**WORKING UNIT**

<b>BOOM</b>	Fletcher AR D / E telescopic boom
<b>Boom extension</b>	1830 mm
<b>Lifting angle</b>	Enabling bolting in roofs from 4,0m up to 7,3m
<b>Boom lift</b>	-5 / +45 degrees
<b>Swing angle</b>	40° left and 40° right
<b>Canopy</b>	Hydraulically operated, MSHA certificated
<b>Working platform</b>	Hydraulically operated
<b>Platform extension</b>	305 mm
<b>Extra feature</b>	Automatic basket and drill levelling

<b>MAST</b>	Telescopic – Fletcher
<b>Type</b>	Roof referenced mast with hydraulic drill guide, to accommodate 2.6 meter feed length. Mast turned with drifter facing operator.
<b>Feed force</b>	0-3182 kg
<b>Feed</b>	0 – 9,14 meter per minute
<b>Tilt</b>	270° of mast tilt: +/- 135° (left / right)
<b>Control panel</b>	at the left side of the boom
<b>Extra feature</b>	Fore and aft mast tilt +/- 7 degrees

<b>ROCKDRILL</b>	Fletcher Heavy duty rotary percussive HV 32 rock drill
Impact power	8 kW
Percussion pressure	207 bar
Percussion flow	57 l/min
Rotation pressure	70 bar
Rotation flow	75 l/min
Drill steel connector	R32
Rotation	380 RPM

<b>CARRIER</b>	
Diesel engine	Deutz TCD2013L04 - 115 kW @ 2300 rpm
Tramming	Four wheel drive (Power shift)
Articulation	Danfoss – Orbitrol controlled by steering wheel
Brakes	Fail-safe, wet multi-disc service brakes with additional fail-safe emergency-parking brake
Transmission	R 32 000 Dana Off-Highway
Axles	113 Dana Off-Highway
Tires	14.00 x 20
Fuel tank	90 l
Electrical control system	24 V
Battery	2 x 12 V
Driving lights	4 x 35 W, LED type
Max. speed on flat surface	18 km/h
Automatic centralized lubrication system	SKF
Hand pump to release emergency/parking brakes	

<b>HYDRAULIC SYSTEM</b>	
Hydraulic pumps	Gear
Pressure	Max. 220 bar
Tank of oil with oil level indicator, return filter	300 l
Filtration	10 µm
Hydraulic oil	HV 68

**ELECTRICAL SYSTEM**

<b>Motor</b>	55 kW
<b>Voltage</b>	to suit customer's requirements
<b>Working lights</b>	2x LED and 2x Xenon lights– 24 V
<b>Start - up</b>	Star / Delta

**OTHER EQUIPMENT INSTALLED ON THE MACHINE**

<b>CONCRETE INJECTION SYSTEM</b>	The system allows to prepare mixture of concrete for cement grouted bolts (concrete mixer is provided and installed on machine) as well as injection of the concrete into bolt hole by hose introduced manually. Piston pump is ON by button located on bolting mast at operator's compartment.
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**CLOSED, AIR-CONDITIONED CABIN**

**OPTIONAL EQUIPMENT**

<b>FIRE SUPPRESSION SYSTEM</b>	ANSUL LT-A-101-30, 6 nozzles, activated manually
<b>FIRE SUPPRESSION SYSTEM WITH FLAME DETECTION</b>	ANSUL LT-A-101-30 SC-N with Checkfire 210, 6 nozzles, activated automatically
<b>AIR - CONDITION for bolting operation</b>	electric power
<b>BY – PASS FILTRATION</b>	Additional recirculation independent hydraulic filtration system for both tramming and drilling systems
<b>SPARE WHEEL</b>	14.00 x 20" (including rim and tire)