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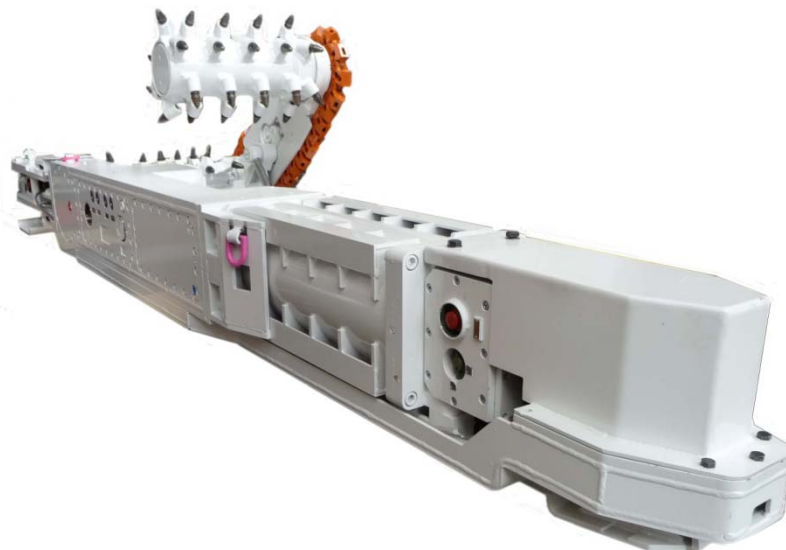
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SHEARER ON FLOOR TEMP-H



PRODUCT DESCRIPTION





1- DESCRIPTION

TEMP-H Coal Shearer on floor is a machine with 80 kW power and 4.500 Kg. weight equipped with two cutting drums suitable for working in thin inclined coal seams.

The front drum cut on floor and has no height regulation and the rear drum can regulate the cutting height between 650 and 1200 mm.

The 80 kW electric engine is in the lower end of the machine which supplies power to a gear assembly hydraulic pump and a fixed flow of 175 Lit/minute, through an elastic coupling.

Power transmission to the fixed drum or motive drum is done through an open type hydraulic circuit between the pump and the hydraulic engine. It has the ability to invert the spin direction of the drum acting over a directional valve triggered from the front side of the machine through a drive with locking with three positions that define the two spin directions and the drum release.

Hydraulic motor operates direct on a rifled shaft which holds the fixed drum or the front one. Transmission to the motive drum or the rear one is done through a cut chain equipped with bayonet teeth mounted in a support with chain tension adjuster. This drum can oscillate to the roof and the floor with an hydraulic cylinder equipped with check valves in order to ensure its position.

A second gear assembly pump and a fixed flow of 9 lit/minute mounted in tandem configuration with the main one is in charge of supplying the hydraulic supply to an auxiliary circuit intended for the actuation on the cylinders that place the motive drum and the rear brake shoe which enables tilting the shearer to the mine face.

The whole set is supported by a beam built in two sections that slides on floor during the shearer drag along the working area. The coal seam extraction is done in upright position and the downhill is done by gravity with controlled stoppage.

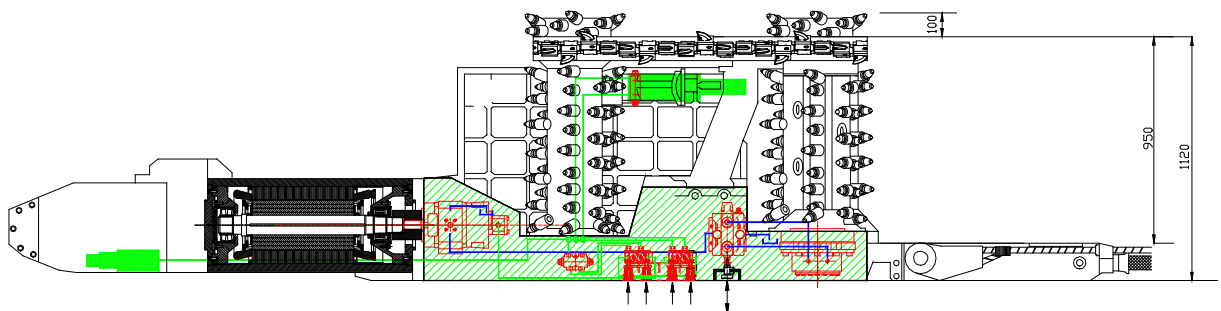
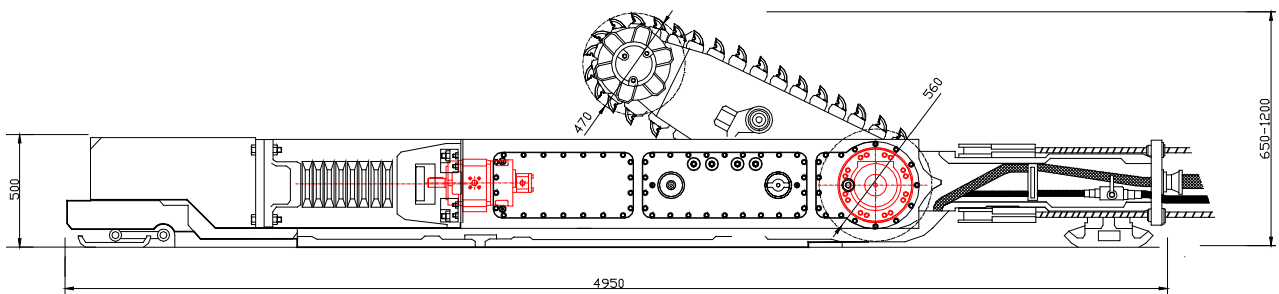
Movement of the Shearer along the longwall face is produced through a safety and dragging winch placed in the mine face heading which drags the machine between two cables one of which is used for traction, the other as a safety cable. These cables are fixed to the machine with thimble assembled in the head.



2- TECHNICAL SPECIFICATIONS

Measures:

Length.....	5000 mm
Width.....	1120 mm
Body Height	500 mm
Weight.....	4500 kg
Electric engine power	80 / S1 kW
Voltage.....	3 x 500 V
Gearbox assembly hydraulic pump	175 l/min
Radial pistons hydraulic engine.....	2.812 cc/rev
Maximum work pressure.. ..	250 bar
Maximum torque in the drum.....	1.000 daNm
Turn speed of the drums	60 rpm
Drums Diameter fixed / motive	560 / 470 mm
Drums length	950 mm



3- GEOLOGICAL CONDITIONS OF USE

Seam thickness 600 – 1.200 mm
Advance per work cycle..... 900 mm
Coal seam inclination 30 – 85°
Gradient angle on the front..... 10 – 40°

4- MAIN COMPONENTS

TEMP-H Shearer main parts are:

1. Engine and electric system
2. Central body, hydraulic equipment and drag device
3. Rollers, support brake shoes and position cylinders
4. Drums, tension adjuster, teeth, teeth carrier and cut chain
5. Spray system

