

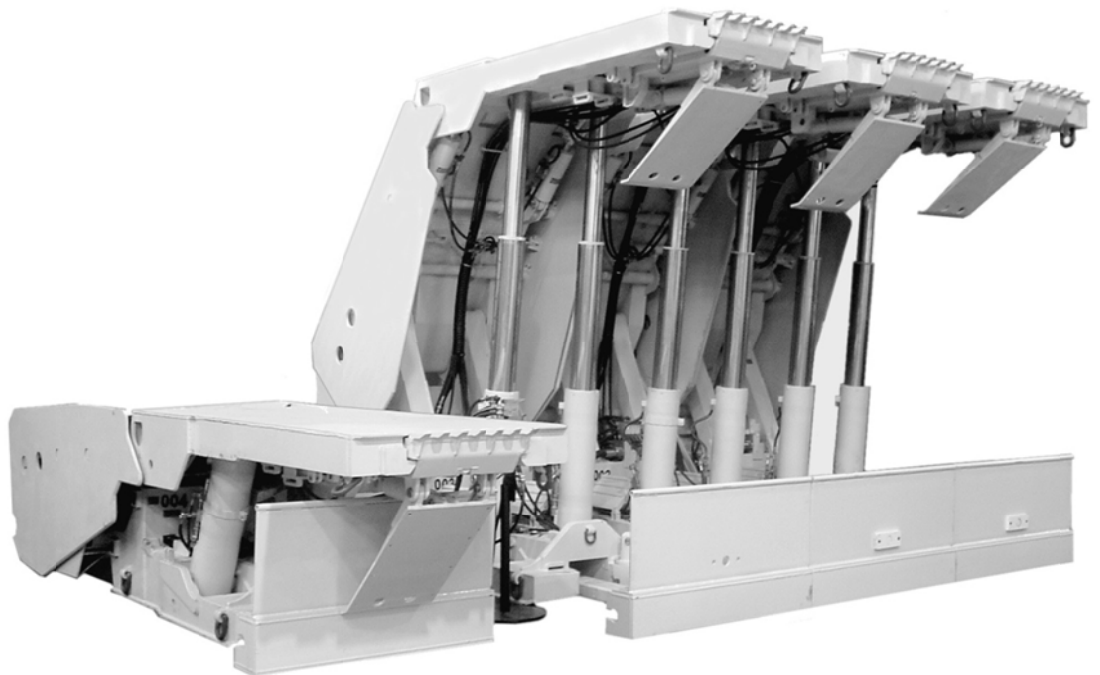


MACKINA - WESTFALIA



POWERED ROOF SUPPORT EMP 125-360

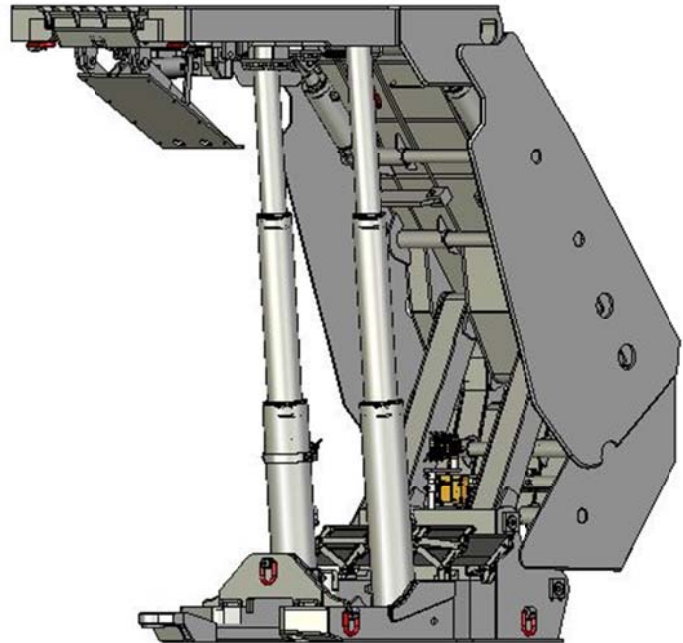
Product description



1. INTRODUCTION

EMP-125-360 Powered Roof Support is designed as a system of support for the mining industry and could be used in inclined slopes of 45° and with coal seams up to 3.6 meters, by the procedure of longwall face method with shearer.

The main function of the powered Roof Support is to secure the working area, at the same time it serves as a support of the reaction efforts to the cuts and generates the efforts for the advance of the mining work through an advance mechanism that consist in moving the shearer and the conveyor or the guidance beam and then with support on the conveyor or rather to move the shield forward.



EMP-125-360 Roof Support is designed as mining roof support equipment for use in potentially explosive atmospheres as Group I category M2 equipment and fulfills all of the relevant requirements of Explosive Atmospheres Directive 94/9/EC (ATEX)

The EMP is of shield type roof supports, with two telescopic leg cylinders, with a stabilizing ram to control the position of the canopy, with extensible canopy to control friable roof geologies and with a face sprag to support the coal face. The EMP has a hydraulic control system driven from the adjacent support.

In addition, the powered roof support is equipped with devices for assurance against overturning and to avoid sliding shields to the lower gallery of the mine face. To this end, it has side shields rams to joint adjacent supports, sets of shield bracings and anti-slew equipment for face and gate end supports

The mine street and the operation area lies in front of the mine props, from where you have good access to the hydraulic drive and a position with good body ergonomics and good visibility of the environment. In order to work in coal seams below 1500 mm it is needed to move the drive control in such a way that the operation area stays in front of the mine props.

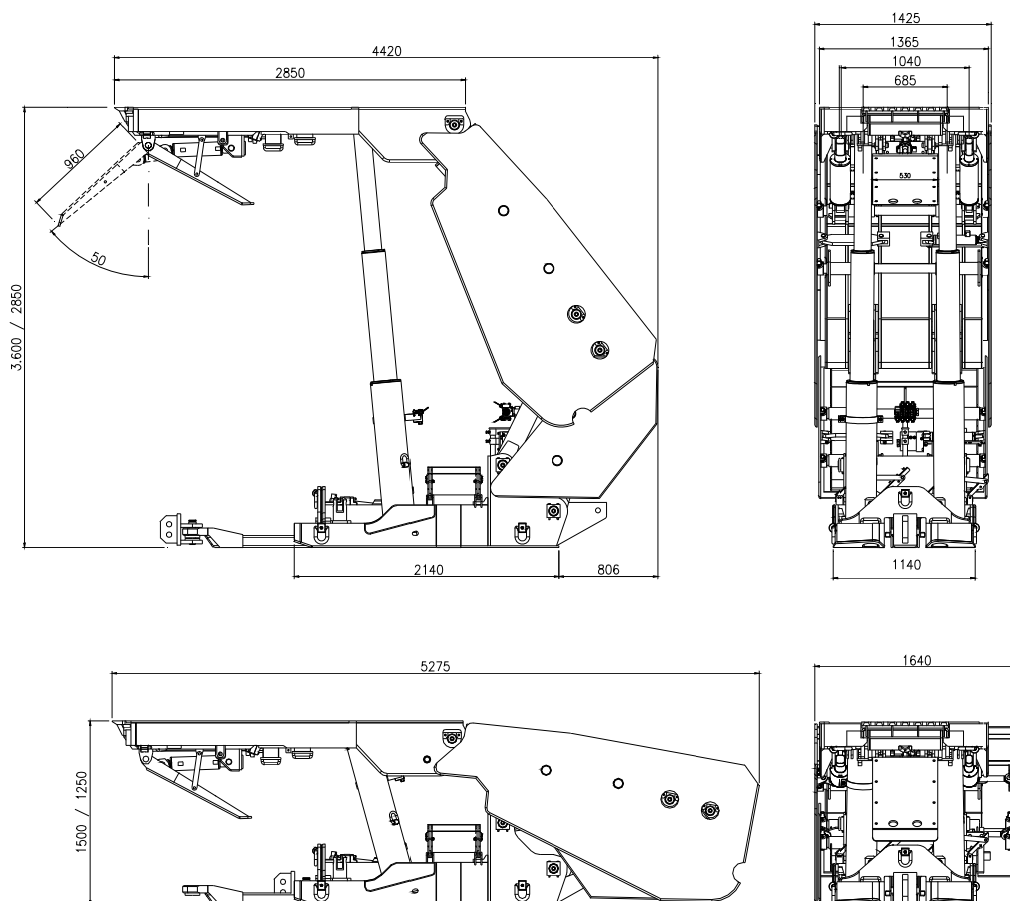
Depending on the seam thickness, the shields with no other change in its configuration can be equipped with telescopic legs with two different lengths. EMP 150-360 shield equipped with long legs has a working height



Powered Roof support EMP 125-360

between 1500 and 3600 mm. For thinner seams short legs are used in this case with a working height between 1250 and 2850 mm for EMP 125-285 shields.

2. TECHNICAL SPECIFICATIONS



EMP 150-360

- Setting load at 30 MPa (Open/close):De 1.987 a 1.145 KN
- Yielding load at 37 MPa (Open/Close):.....De 2.450 a 2.652 KN
- Min. Closed Height: 1.500 mm
- Max. Extended Height:3.600 mm



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Advancing stroke:..... 900 mm
Pitch of the supports:1.500 mm.

EMP 125-285

Setting load at 30 MPa (Open/close): .. De 1.921 a 1.112 KN
Yielding load at 37 MPa (Open/Close):.....De 2.369 a 2.634 KN
Min. Closed Height: 1.250 mm
Max. Extended Height:2.850 mm
Advancing stroke:..... 900 mm
Pitch of the supports:.....1.500 mm.



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