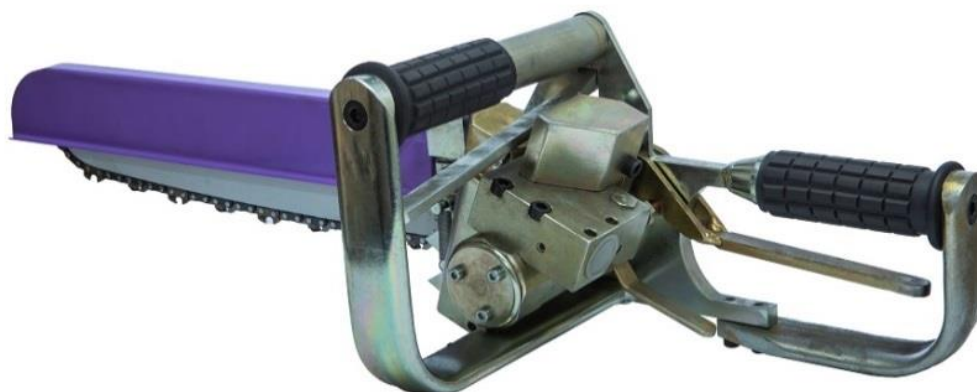

HPL/SM 350 HYDRAULIC CHAIN SAW



Device description:

The HPL/SM 350 hydraulic chainsaw equipped with a 350mm-long guide bar is driven by an SM type hydraulic satellite motor. It is mainly used in various types of auxiliary work in underground mining, replacing tedious manual cutting of wood.

The driving element is an SM type hydraulic satellite motor adapted to be fed with HFA water-oil emulsion, which allows the device to be powered, among other things, directly from emulsion hydraulic buses of mechanized casings. It is also possible to supply oil from other hydraulic systems, such as roadheaders. The saw is additionally equipped with a slotted filter to protect the hydraulic system from larger contaminants.

Equipping the HPL/SM 350 saw with a dual control valve, which requires ambidextrous operation of the saw, protects the user from accidental starting of the device. Additional cutting chain guard increases safety during operation and transportation of the device. The cutting chain, sprocket and guide bar are typical components of commonly manufactured chainsaws for the woodworking and forestry industries. The cutting chain used in the device has sintered carbide made blades.

It is a tool with high functionality, which, combined with high quality and durability, translates into low operating costs.

MANUFACTURER AND SERVICE

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Drive unit description:

HPL/SM 350 type hydraulic chain saws are powered by SM type hydraulic satellite motors developed and manufactured by SM Hydro company. These motors are distinguished by their simple and compact design and high torque combined with high efficiency. The special advantages of SM type hydraulic satellite motors are due to the precision of manufacture measured in microns and the quality achieved by using state-of-the-art construction materials with high durability, including the use of sintered carbide. The use of hydraulic satellite motors in mining is most often associated with the use of HFA-type water-oil emulsion as a supply medium, but oil supply is also possible.

Hydraulic chainsaw type HPL/SM 350 can work in explosive atmospheres.

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Technical characteristics of the hydraulic chain saw type HPL/SM 350:

#	Parameter	Unit	HPL/SM 350
1.	Motor type		SM 04/20
2.	Geometrical displacement	cm ³ /rev	7,12
3.	Nominal pressure*	MPa	22
4.	Nominal torque	Nm	22
5.	Feed liquid	-	water-oil emulsion HFA, hydraulic oil
6.	Filtration	μm	100
7.	Weight	kg	7
8.	Chainsaw guide lenght	mm	350

* When fed with low-percentage HFA emulsion, continuous operation at pressures higher than nominal will result in accelerated wear of the toothed working mechanism of the motor. Pressures higher than nominal in continuous operation are recommended only when fed with hydraulic oils.

All SM-type and SMW-type motors are suitable for operation on HFA water-oil emulsion. They can also be operated with hydraulic and also vegetable oils.

Detailed information on motors and tools ranges can be found at www.smhydro.com.pl

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