

Sack Cutting Units



MHWirth's sack cutting unit (SCU) is a fully automatic system for cutting and emptying drilling fluid additive sacks for feeding into mud hoppers.

Our user-friendly sack cutting unit requires minimal training of the operators. The sacks are continuously fed onto the conveyor belt and the direction and condition of the sacks do not affect the performance of the unit. Our SCU is flexible to accommodate both multilayer and poly-woven sacks.

In the cutting chamber, four high speed rotating discs split the sacks with speed and precision. The precision of this operation results in creating a proper opening in the sack resulting in high emptying efficiency, without powder residue remaining in any pockets.

A rotating drum ensures that the powder filters through the mesh into a dosing screw conveyor. The drum leads to the sack being properly emptied before it is discharged into the waste compactor.

A built-in dust filtration system enables a dust free operation. The filters are self cleaning, with a reverse jet cleaning system. In addition, the SCU allows for dust free replacement of the waste bag.

The SCU is designed with a number of hatches to allow easy access for inspection and maintenance.

A safety control system ensures safe operation. It meets all relevant offshore health, safety, security and environment requirements, such as HSE Offshore COSHH OCE8, OSHA 1910.212 and NORSOK D001.

Benefits

- 99.8% proven emptying efficiency
- Handles all types of sacks including multilayer- and poly woven sacks
- Fully automated cutting and emptying process
- Durable filtration elements with reversed jet cleaning
- Modular design allows configurations for any rig layout



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Technical Specifications

Sack handling capacity	150 sacks/hr with 99.8% emptying efficiency. Higher sack cutting capacities are possible but limited to the powder dosing system capacity.
Powder dosing rate to mud hoppers	1.24 - 124 cu ft/h (0.035 - 3.5 m ³ /h)
Sack size requirements, max.	40 x 24 x 10 in (1 000 x 600 x 250 mm)
Sack size requirements, min.	12 x 12 x 3 in (300 x 300 x 80 mm)
Hazardous area classification (according to IEC 60079-10-1)	Non-hazardous. Optional: zone 1, zone 2.
Steel construction	AISI 316

Data is subject to confirmation by the manufacturer.