

Special worm gear with a sliding coupling for the Snow-machine Gemini Frau Holle S10:

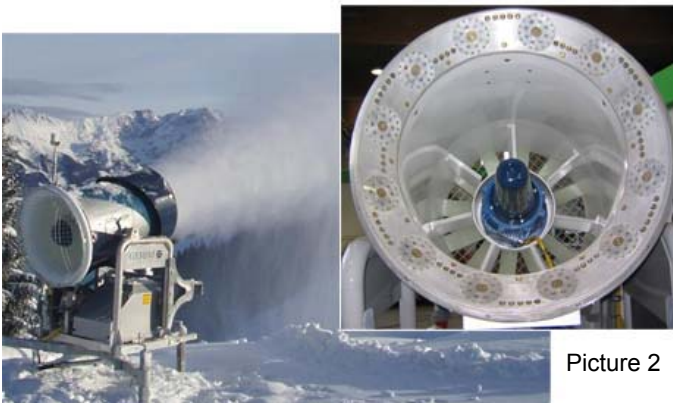
The swinging drive of this mobile snow-machine is carried out through a combination of double WATT MAS 2000 mechanism. A helical worm gear unit SUA 455B and single-stage gear unit HF 50E are used. Thanks to the inbuilding of the one-stage mechanism, the required high reduction can be achieved. An inside lying sliding coupling (50 Nm sliding moment) is assembled to limit driving turning moments on the output side in a blockade caused by the frozen machine. A turn of the machine in 360° can be herewith safe and a machine-considerate. An unaired Watt EUSAS System Motor is used as blowing drive.

Description:

The Snow-machine GEMINI Frau Holle S10 of the HDP - Hochdruckprodukte company (products based on high pressure) from A-8682 Müzzuschlag-Hönigsberg connects the spray technology of fine and gross holes. The GEMINI-machine uses all advantages of formation of small drops with the fine holes spray within a limited temperature area. This guarantees the best snow quality at possibly high temperatures and low water pressure.

The gross holes spray will be switched on thereto at low temperatures. Snow crystals will be herewith bigger and dry snow quality will be guaranteed over the whole temperature area.

The requirements on the drives responding to the field of the utilization are very high, low temperatures of the environment and conditions of the operation have to be provided.



Picture 2

Swivel drive: (Picture 3)

SU 455B-HF50E SK 64N8 KB K1

The three-stage gear unit is driven with help of an 8-pole engine, besides a condensating water hole– KB, the drive is equipped with a climatic protection – K1as well.

Power: 0,04 kW
 Output moment: max. 50 Nm
 Gear ratio: 1333,33
 Output speed: 0,47 U/min
 Mounting position: V114

Features:

- Protection of parts of the mechanism through the adjustable sliding coupling
- Big reduction through the combination of 2 MAS 2000 gear units
- Special driven shaft with a square SW 17 for turning the mechanism manually
- Safe operation also at the lowest temperatures



Picture 3

Blowing drive: WAF 134ML4U K1 KB (Picture 2)

Power: 15 kW
 Speed: 1445 U/min
 Mounting position: B5
 Protection class: IP 55/F

The blowing drive of the snow-machine is one Watt EUSAS System Motor of the manufacturing line WAF and is made without a fan unit. The engine is outfitted like the swinging drive with the condensating water hole and climatic protection as good as possible against tough conditions of the environment.

Sliding coupling:

The sliding coupling is attached to the gear as inside lying. The output moment can be set continuously with help of a shaft nut.

You receive further information about the Watt production program on our web-side under www.wattdrive.com.