

SHR

Sack-handling robot technology

APPLICATIONS

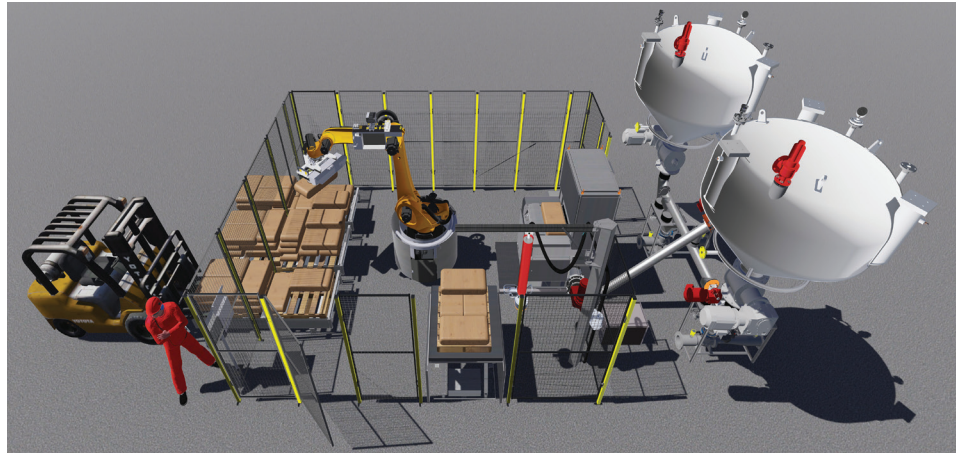
- Offshore drilling operations

BENEFITS

- High operational flexibility with customizable layout
- Improved safety profile with minimized exposure of personnel to chemicals and reduced manual handling

FEATURES

- Scalable system for multiple pallets and chemicals
- Depalletizing robot
- Intelligent vision system
- Recipe control
- Integrated learning mechanism
- EX model available
- Increased automation
- Collision detection feature
- Safety fence system



Representing the next generation of mud mixing services, SHR* sack-handling robot technology minimizes personnel exposure to chemicals, reduces manual handling, and increases automation. The technology is composed of a robot with intelligent pallet scanning and sack gripper tools that can read and transport sacks from one to five pallets. Increased capacity is available.

To ensure a high degree of flexibility, the robot pallet scanning tool is designed to scan pallets with various types of stacks. Also included in the SHR technology is recipe control, which provides the operator with real-time information of the type and amount of chemicals added to the mud. This feature can be integrated with other systems as well for real-time mixing control.

Technical Specifications

Sack cutting capacity, sacks/h	100 sacks/h
Lifting capacity, lbm [kg]	66 [30]
Lifting range (minimum–maximum), in [mm]	
Height from robot feet	11.5–26.7 [677–2,832]
Radius from robot center axis	23.6–125.8 [600–3,195]
Unit weight, [†] lbm [kg]	3,527 [1,600]
Noise level, dB	75
Ingress Protection (IP) rating	IP65
Design temperature range, degF [degC]	32–113 [0–45]
Power supply, V	400 (50 Hz)
Area classification	Safe zone
Environment	Offshore conditions
Scope of Supply: Standard Model	Options
Robot	Additional pallet stations
Sack gripper tool	Tool for handling empty pallets
Pallet scanning tool	Additional certification (ATEX Zone 1 or 2)
Vacuum pump	Rail-mounted robot
Control system and human machine interface	Rail-mounted pallets
Safety fence system	Weight detection on sacks
	Palletizing function

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[†] Dependent upon robot model.