

SHAFT DRILLING JUMBO

TAILOR-MADE DRILL AND BLAST TECHNOLOGY



Shaft Drilling Jumbo

- › Fast and accurate blind shaft sinking or shaft enlargement
- › Custom made design with variable amount of booms
- › Remote operation mode to remove operators from the shaft bench
- › High sinking rates powered by hydraulic power units
- › Possible combination with mechanized shaft excavation to suit all geological conditions

**PIONEERING
UNDERGROUND
TECHNOLOGIES**



SDJ – Shaft Drilling Jumbo

Technical specifications

The **Shaft Drilling Jumbos (SDJ)** have been developed for the conventional construction of shafts in hard rock. The SDJ is either mounted on a tripod and braced onto the shaft walls or designed to be chaired in the shaft Galloways. The modular jumbos are custom-made in line with specific customer needs and are proposed in different designs to suit any shaft sinking operations and rock drilling patterns. Efficient motions and automated controls allow high sinking rates for deep shafts and can be combined with mechanized methods to cover all kind of geologies. The optimized logistics in the shaft leads to process acceleration, an increase in cost efficiency and a reduction of potential hazards for the personnel. In combination with the SDJ, Herrenknecht offers a full range of new generation shaft machinery including mechanized excavation machines, swift mucking system and efficient shaft logistics.



Transport configuration with handling frame



Shaft sinking operations



Workshop acceptance in Schwanau

SHAFT DRILLING JUMBO

- › Number of booms: 1–6
- › Weight: 4t–16t
- › Height: 6m–12m
- › Parked diameter: 1,800mm–3,000mm
- › Shaft diameter: 4,000mm–12,000mm
- › Hydraulic power unit: electrically or air driven

DRILLING RIGS

- › Series: HDS-300
- › Carriage: aluminum extrusion
- › Feed force: up to 30kN
- › Retraction force: up to 20kN
- › Drilling stroke: 2m–5m
- › Length: up to 7m
- › Rock drill: any type and brand

FEATURES

- › Radio remote controls over PLC
- › Drilling cycle automation
- › Emergency hydraulic power unit
- › Extension equipment for cover drilling
- › MWD system with WIFI tablet
- › Measuring system and automatic positioning
- › Feed inclination for bolting
- › Atex certification



HERRENKNECHT MINING

77963 Schwanau
 Germany
 Phone +49 7824 302-0
 Fax +49 7824 302 3528
 mining@herrenknecht.com
 www.herrenknecht.com



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