

JDL-280 • MECHANICAL TOP DRIVE RIGS

JDL-280 Mechanical Top Drive Drilling Rig

Water & air drilling in one machine • National invention patent

Combines water and air drilling in a single machine. Uses an automotive 525 gearbox: transmission efficiency doubles versus hydraulic drive while power consumption drops 35%. Solves the difficulty of DTH hammer drilling in soil layers and the low efficiency of rotary rigs in hard rock or gravel-cobble strata.

Factory direct • 80+ countries | ISO 9001 | Since 1989

280 m (152–203 mm) Water well depth	**500 m** Wireline coring (75 mm)	**Ø75–Ø350 mm** Opening hole diameter
90° Drilling angle	**100 kN** Head pull-up force	**50 kN** Head feed force

Product Photos

More photos and videos at zuanjiai.com






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Technical Specifications

JDL-280 · Mechanical Top Drive Rigs

Water well depth	**280 m (152–203 mm)**
Wireline coring (75 mm)	**500 m**
Opening hole diameter	**Ø75–Ø350 mm**
Drilling angle	**90°**
Head pull-up force	**100 kN**
Head feed force	**50 kN**
Rotation speed (forward)	**33 / 63 / 113 / 163 / 192 / 237 / 303 / 537 / 906 / 1120 r/min**
Rotation speed (reverse)	**37 / 180 r/min**
Max torque	**9,800 N•m**
Diesel engine	**Yunnei YN27**
Rated power / speed	**42 kW / 2400 r/min**
Winch single-line pull	**4.5 t**
Drill rod diameter	**Ø50 / Ø60 / Ø76 / Ø89 mm (NQ / HQ / PQ)**
Drill rod length	**2000 mm**
Mud pump	**BW160 / BW200 / BW250**
Air compressor consumption	**16–35 m³/min**
Working air pressure	**10.5–24.6 bar**
Travel speed	**0–2 km/h**
Gradeability	**Max. 25°–30°**
Transport dimensions	**4600 × 1900 × 2540 mm**
Working dimensions	**3800 × 2200 × 5700 mm**
Operating weight	**3,500 kg**

※ Standard factory configuration. Actual configuration can be customized to site conditions. Specifications are subject to change without notice; the delivered machine prevails.

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