



Shanghai Jintai Foundation Machinery

Specialist of Foundation Equipment
Rotary Drilling - CFA- Reverse Circulation Drill
SWM - RC DTH Hammer - Diaphragm Wall

Jintai SD28 Hydraulic Rotary Drilling Rig

1. Jintai SD28 Attachment.

Jintai SD28 Assembly for the base carrier JT80 consist of:

Mast in box type construction with interior reinforcement, torsion proof for SD Kelly drilling and CFA drilling mode.

-Mast height :	22,870mm
-Max. drilling depth:	80m
-Drilling diameter:	
*with casing driving facility:	2000mm
*without casing driving facility:	2500mm

Mast suitable for

Rotary Head

*Powered by **Rexroth** hydraulic motor and **Brevini** reduction gear box.

-Rotary Head model	KDK280
-Max. torque	286kNm
-Rotary speed	6-30rpm

Crowd cylinder

-Stroke:	5.7m
-Crowd force:	250kN
-Pulling force	250kN



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Main Winch

*Powered by **Rexroth A2FE** hydraulic motor and **GFT** reduction gear box.

-Max. line pull:	250kN
-Max line speed:	65m/min.
-Line speed with 10ton load:	45-55m/min.
-Wire rope diameter:	30mm (Italy made)
-Wire rope length:	100m

Auxiliary Winch

*Powered by **Rexroth A2FE** hydraulic motor and **GFT** reduction gear box.

-Max. line pull:	75kN
-Max. line speed:	45m/min
-Wire rope diameter:	18mm (Italy made)
-Wire rope length:	60m

2. Base Carrier for SD28

Hydraulic crawler base machine JT80, suitable for SD28 usage according to Jintai Specification.

Upper-carriage

Hydraulic upper carriage type Hyundai **R455LC-7** is installed with water-cooled, turbo charged, diesel engine type **Cummins QSM11-C**

-Rated output:	263kW at 1900rpm
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Hydraulic system

2 main open circuits hydraulic system with variable displacement type pump.

-Main Pump	Kawasaki K5V200 x 2
-Working. pressure	330bar
-Max. oil flow	2 x 380L/min.

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Hydraulic control system

Hydraulic control system is consisted with Rexroth main control valve set

-Main control valve:	Rexroth
-Main safety valve pressure:	330 bar
-Over flow pressure:	200-280bar

Slewing system

Slewing ring is driven by a Rexroth motor and Bonfigili reduction gear box to provide a stable and powerful turning for undercarriage.

-Slewing motor:	Rexroth
-Reduction gear box	Bonfigili
-Slewing speed:	2.5-3rpm

Control Cabin

- Fully comfortable large vision driver cabin, with air conditioner and radio.
- With Finland EPEC made PLC computerized control
- Monitoring system is made by Germany GRAP with English vision display.

All mast verticality and accuracy control with display of working parameter

Undercarriage

Undercarriage is designed with extendable crawler track and main components like tack pad, link, roller and tumbler is imported from KTSU Japan which is Komatsu compatible.

Traction motor:	Rexroth
Reduction gear box:	Bonfigili
Track shoe width:	800mm
Crawler length:	5680mm
Crawler width (retracted/ extended):	3300/4400mm

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Total operating weight

SD28 operating rate is about 83ton with Kelly bar

Kelly Bar

-Interlocking type and friction type are available for different kind of soil and different drilling depth.

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|---|--------|
| - Outer diameter of Kelly (interlocking type) | 470mm |
| - Permanent torque transmission | 286kNm |
| - Steel quality | Q390B |

Standard Tools and Accessories

SD28 would be completed with all standard accessories, tools, operation manual, part book, electric and hydraulic diagrams.

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