



# Shanghai Jintai Foundation Machinery

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

## Jintai SD28-W Hydraulic Rotary Drilling Rig

### 1. Jintai SD28-W Attachment.

Jintai SD28-W 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 winch**

-Stroke (Kelly system):	10.0m
-Stroke (CFA system)	15.5m
-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:	60m/min.
-Line speed with 10ton load:	45-50m/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-W

Hydraulic crawler base machine JT80, suitable for SD28-W 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
-Max. pressure	330bar
-Max. oil flow	2 x 360L/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 Twin motor and Twin reduction gear box to provide a stable and powerful turning for undercarriage.

-Slewing speed:	2.5-3rpm
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### 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:	Bonfigli
Track shoe width:	800mm
Crawler length:	5680mm
Crawler width (retracted/ extended):	3300/4400mm

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### **Total operating weight**

SD28-W operating rate is about 87ton with Kelly bar

### **Kelly Bar**

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

- |   |        |
|---|--------|
| - Outer diameter of Kelly (interlocking type) | 470mm  |
| - Permanent torque transmission               | 280kNm |
| - Steel quality                               | Q390B  |

### **Standard Tools and Accessories**

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