



Shanghai Jintai Foundation Machinery

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

Jintai SD36W Hydraulic Rotary Drilling Rig

1. Jintai SH36W Attachment.

Jintai SD36W Assembly for the base carrier JT90 consist of:

Mast is in box-type construction with interior reinforcement, torsion proof for Kelly drilling and CFA drilling modes.

- Mast height: 27,400 mm
- Max. drilling depth: 91m
- Drilling diameter:
 - With casing driving facility: 1800 mm
 - Without casing driving facility: 2300 mm

Mast suitable for

Rotary Head

- Powered by **Rexroth** hydraulic motor and **Brevini** reduction gearbox.
- Rotary Head model: **KDK280**
- Max. torque: 298 kNm
- Rotary speed: 6-30 rpm

Crowd winch

- Stroke (Kelly system): 11.0m
- Stroke (CFA system): **15.5m**
- Crowd force: 300kN
- Pulling force: 300kN



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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 form 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-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.