



Shanghai Jintai Foundation Machinery

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

Jintai SD22-W Hydraulic Rotary Drilling Rig

1. Jintai SD22-W Attachment.

Jintai SD22-W Assembly for the base carrier JT70 consist of:

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

-Mast height :	21,500mm
-Max. drilling depth:	60m
-Drilling diameter:	
*with casing driving facility:	1800mm
*without casing driving facility:	2000mm

Mast suitable for

Rotary Head

*Powered by **Rexroth A6VM160** hydraulic motor and **Brevini ED2250FE** reduction gear box.

-Rotary Head model	KDK250
-Max. torque	250kNm
-Nominal torque	220kNm
-Rotary speed	5-25rpm

Crowd winch

-Stroke:	10.0m
-Crowd force:	200kN
-Pulling force	200kN



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Main Winch

*Powered by **Rexroth A2FE160** hydraulic motor and **GFT-110** reduction gear box.

-Max. line pull:	220kN
-Max line speed:	55m/min.
-Line speed with 10ton load:	40-50m/min.
-Wire rope diameter:	26mm (Italy made)
-Wire rope length:	92m

Auxiliary Winch

*Powered by **Rexroth A2FE80** hydraulic motor and **GFT-26** reduction gear box.

-Max. line pull:	75kN
-Max. line speed:	50m/min
-Wire rope diameter:	18mm (Italy made)
-Wire rope length:	60m

2. Base Carrier for SD22-W

Hydraulic crawler base machine JT70, suitable for SD22-W usage according to Jintai Specification.

Upper-carriage

Hydraulic upper carriage type Hyundai **R305LC-7** is installed with water-cooled, turbo charged, diesel engine type **Cummins C8.3**

-Rated output:	194kW at 2200rpm
-Max. torque:	112.8kgm at 1,500rpm



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Hydraulic system

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

-Main Pump	Kawasaki KTV140 x 2
-Displacement	2 x 136.8cc/rev
-Max. pressure	350bar
-Max. oil flow	2 x 260L/min.

Hydraulic control system

Hydraulic control system is consisted with Rexroth main control valve set

-Main control valve:	Rexroth R901124382FD
-Main safety valve pressure:	350 bar
-Over flow pressure:	250-330bar

Slewing system

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

-Slewing motor:	Rexroth A2FE90
-Reduction gear box	Bonfigli GTF90
-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



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Undercarriage

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

Traction motor:	Rexroth A2FE107
Reduction gear box:	Bonfigli 715C3B
Track shoe width:	800mm
Crawler length:	5680mm
Crawler width (retracted/ extended):	3200/4300mm

Total operating weight

SD20-W operating rate is about 70ton 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)	406mm
- Permanent torque transmission	200kNm
- Steel quality	Q390B

Standard Tools and Accessories

SD20-W would be completed with all standard accessories, tools, operation manual, part book, electric and hydraulic diagrams.