



Shanghai Jintai Foundation Machinery

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

Jintai SD22 Hydraulic Rotary Drilling Rig

1. Jintai SD22 Attachment.

Jintai SD22 Assembly for the base carrier JT70 consist of:

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

-Mast height :	21,500mm
-Max. drilling depth:	60m
-Drilling diameter:	
*with casing driving facility:	1500mm
*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
-Rotary speed	5-25rpm

Crowd cylinder

-Stroke:	5.7m
-Crowd force:	220kN
-Pulling force	220kN



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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

Hydraulic crawler base machine JT70, suitable for SD22 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

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.

International Sales and Service by : Houston Machinery (China) Co., Ltd.

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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 Bonfigili reduction gear box to provide a stable and powerful turning for undercarriage.

-Slewing motor:	Rexroth A2FE90
-Reduction gear box	Bonfigili 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

Undercarriage

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

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

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Total operating weight

SD22 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

SD22 would be completed with all standard accessories, tools, operation manual, part book, electric and hydraulic diagrams.