



Shanghai Jintai Foundation Machinery

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

Jintai SG50 Hydraulic Hydraulic Diaphragm Wall Grab

1. Jintai SG50 Attachment.

Jintai SG50 Assembly for the base carrier JT80 consist of:

Mast in box type construction with interior reinforcement for hydraulic diaphragm walling grab or bore pile grabs.

The main component of the system are including

Boom system

Box type lower and upper mast (with mast head)

Lower mast section suitable for capacity of 600kN, c/w support for

- Crane winch, capacity 500kN (2 winches)
- Hose retracting system up to a max. Depth of 70m
- Mast cylinder to adjust the inclination of the mast
- Upper mast section c/w
- Mast head suitable for a capacity of 600kN
- Pulley and hose guide wheel

Crane winch for SG50

- Crane winch without free fall
- single line pull 250kN
- Rexroth motor for the winch
- wire roller guide

Measuring device

- Devices for measuring depth is mounted to mast head
- Devices for measuring the inclination is mounted to the grab with monitoring system on display inside cabin.

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Hydraulic hose winding system

- Synchronized hydraulic hose drum system ensure the all the hose synchronize with winch up lifting together
- Hose winding motor is Danfoss (model OMSK125 and OMSK200) Denmark which is reliable and easy maintenance .
- Hose length is suitable for 70m excavation depth.

Base Carrier for SG50

Hydraulic crawler base machine JT90 , suitable for SG50 usage according to Jintai Specification.

Upper-carriage

Hydraulic upper carriage type Hyundai **R505LC-7** is installed with water-cooled, turbo charged, diesel engine type **Cummins QSM-11C**

-Rated output: 263kW at 1900rpm

Hydraulic system

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

-Main Pump Kawasaki K5V200 x 2

-Max. pressure 350bar

-Max. oil flow 2 x 380L/min.

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

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 KTSU Japan which is Komatsu compatible.

Track shoe width:	800mm
Crawler length:	6030mm
Crawler width (retracted/ extended):	4500/5000mm

Total operating weight

SG50 operating weight is about 75 ton without hydraulic grab.

Diaphragm Wall Grab ZD base bodies

- ZD series of grab base bodies is rope suspended and operated hydraulically.
- With turning flaps for verticality control
- The closing force is from 80ton to 120ton.
- The width of grab from 350mm to 1500mm
- Can be installed with round or rectangular shovel.

Standard Tools and Accessories

SG50 would be completed with all standard accessories, tools, operation manual, part book, electric and hydraulic diagrams.

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