



Shanghai Jintai Foundation Machinery

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

Jintai SG22 Hydraulic Hydraulic Diaphragm Wall Grab

1. Jintai SG22 Attachment.

Jintai SG22 Assembly for the base carrier JT45 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 300kN, c/w support for

- Crane winch, capacity 220kN (2 part line)
 - Hose retracting system up to a max. Depth of 45m
 - Mast cylinder to adjust the inclination of the mast
- Upper mast section c/w
- Mast head suitable for a capacity of 300kN
 - Pulley and hose guide wheel

Crane winch for SG22

- Crane winch without free fall
- single line pull 140kN
- 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 60m excavation depth.

Base Carrier for SG22

Hydraulic crawler base machine JT45, suitable for SG22 usage according to Jintai Specification.

Upper-carriage

Hydraulic upper carriage type Jintai special made is installed with water-cooled, turbo charged, diesel engine type **Cummins 6CAT5.9-C.**

-Rated output: 125kW at 2200rpm

Hydraulic system

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

-Main Pump Kawasaki K3V112 x 2

-Max. pressure 320bar

-Max. oil flow 2 x 230L/min.

Hydraulic control system

Hydraulic control system is consisted with HAVE main control valve set

-Main control valve: HAVE PSLH/300-5

-Main safety valve pressure: 300 bar

-Over flow pressure: 190-250bar

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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.

Track shoe width:	600mm
Crawler length:	5090mm
Crawler width (retracted/ extended):	3000/4100mm

Total operating weight

SG30 operating weight is about 45 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 300mm to 600mm
- Can be installed with round or rectangular shovel.

Standard Tools and Accessories

SG22 would be completed with all standard accessories, tools, operation manual, part book, electric and hydraulic diagrams.