



## Shanghai Jintai Foundation Machinery

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

### Jintai SG35A/SG35 Hydraulic Hydraulic Diaphragm Wall Grab

#### 1. Jintai SG35A /SG35 Attachment.

Jintai SG35A/SG35 Assembly for the base carrier JT70 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)

Mast section suitable for capacity of 400kN, c/w support for

- Crane winch, capacity 350kN (2 part line)
- Hose retracting system up to a  
Depth of 50m (max. 60m)
- Mast cylinder to adjust the inclination of the mast
- Upper mast section c/w
- Mast head suitable for a capacity of 400kN
- Pulley and hose guide wheel

##### **Crane winch for SG35A/SG35**

- Crane winch without free fall
- single line pull 180kN
- 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 SG35A/SG35

Hydraulic crawler base machine JT70, suitable for SG35A /SG35 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 6CAT8.3-C**.

-Rated output: 194kW at 2200rpm

### Hydraulic system

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

-Main Pump Kawasaki KTV140 x 2

-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

-Main safety valve pressure: 300 bar

-Over flow pressure: 200-280bar

### 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

-Reduction gear box Bonfigli

-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 from KTSU Japan which is Komatsu compatible.

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

### Total operating weight

SG35A/SG35 operating weight is about 58 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 1200mm
- Can be installed with round or rectangular shovel.

### Standard Tools and Accessories

SG35A would be completed with all standard accessories, tools, operation manual, part book, electric and hydraulic diagrams.

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