



# Shanghai Jintai Foundation Machinery

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

## Jintai SG40E Hydraulic Hydraulic Diaphragm Wall Grab

### 1. Jintai SG40E Attachment.

Jintai SG40E 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 500kN, c/w support for

- Crane winch, capacity 400kN (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 500kN
- Pulley and hose guide wheel

#### Crane winch for SG40E

- Crane winch without free fall
- single line pull 200kN
- 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 SG40E

Hydraulic crawler base machine CAT330D , suitable for SG40E usage according to Jintai Specification.

### Upper-carriage

Hydraulic upper carriage type **CAT330D** is installed with water-cooled, turbo charged, diesel engine type **Caterpillar C-9**

-Rated output: 261kW at 1900rpm

### Hydraulic system

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

-Main Pump	Caterpillar
-Max. pressure	350bar
-Max. oil flow	2 x 280L/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 original Caterpillar.

Track shoe width:	800mm
Crawler length:	5470mm
Crawler width (retracted/ extended):	3000/4300mm

### **Total operating weight**

SG40E operating weight is about 62.5 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**

SG40E would be completed with all standard accessories, tools, operation manual, part book, electric and hydraulic diagrams.

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