Jintai Hydraulic Diaphragm Wall Grab

Play Key-Roll in the Shanghai Hong Qiao Traffic Complex Project.

Hong Qiao Traffic Complex is a huge underground construction project; it is a centralized station connection of the following:

(1) Purpose of the project:
- High speed train
  (As Shanghai terminal of the Beijing Shanghai high-speed train)
- Inter city, railway terminal
- Magnetic suspension High speed Train
- Public Bus, long distance limousine
- Metro connection
- Airport speed train
- Taxi Station
- Underground Car Park

(2) The Site Area
The site is about 13KM from Shanghai down town at the Western side of the Hong Qiao Airport. The site area is about 26.6sqkm. This is an traffic construction project, enhance the traffic and logistic for the Yang Tze economic delta Zone.
(3) The Underground Construction

a. The Underground Construction
Substantial Diaphragm Wall Construction of wall width 800-1000mm and wall depth in 32-52m.

The soil condition is:
- 0-28M Clay
- 28-42m Silty Clay
- 42-45m Sandy Clay
- 45-52m Sandy Clay

b. Jintai Diaphragm Wall Grab
Construction is carried out by the leading specialized foundation companies in Shanghai and 10 set of Jintai SG35, SG40A Diaphragm Wall Hydraulic Grab system are employed.

The specification of the system is as below:

<table>
<thead>
<tr>
<th></th>
<th>Model SG35</th>
<th>Model SG40A</th>
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</thead>
<tbody>
<tr>
<td>(A)</td>
<td>Grab System</td>
<td></td>
</tr>
<tr>
<td>Wall Width</td>
<td>300 - 1200mm</td>
<td>350 – 1500mm</td>
</tr>
<tr>
<td>Pull Depth</td>
<td>60m</td>
<td>70m</td>
</tr>
<tr>
<td>Pull up force</td>
<td>350KN</td>
<td>400KN</td>
</tr>
<tr>
<td>Main Winch Line Pull</td>
<td>200KN</td>
<td>220KN</td>
</tr>
<tr>
<td>Weight of Grab</td>
<td>9 - 18 Ton</td>
<td>15 - 22</td>
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</tbody>
</table>

| (B) | Base Carrier          |                        |
| Engine | Cummins6CAT8.3C, 194KW | Cummins QSM11-C, 263KW |
| Undercarriage | JT-70               | JT-70                 |
| Crawler Length | 5680mm               | 5680mm                |
| Width | 3000-4300mm           | 3200-4300mm           |
| Shoes | 800mm                 | 800mm                 |
| Total Weight | 54 Ton               | 63 Ton                |
The ‘SG’ series Diaphragm Wall Grab is an advanced grabbing machine with Hydraulic controlled Flap System for verticality control and strong excavator force for hard soil and high excavation speed.

It is mounted on ‘Jintai’ special built base machine with extensible Crawler assembly to provide strong Hydraulic output and also stable operation.

Jintai SG35, SG40A are also is use in Europe, Russia, Vietnam, Middle East and USA.

For more details please contact International Sales and Services Centre:

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