



GRAIN TECH MATERIAL HANDLING

MATERIAL HANDLING AND PROCESS ENGINEERS

BULK HANDLING GRAB RECEIVING AND TRANSFER HOPPER



Port side installation transferring from ship grabs



Port side receiving and transfer hopper for efficient handling of bulk cargo materials such as grains, palm kernel meal, fertilizers, fly ash and similar products

The Genma bulk cargo receiving and discharging grab type hoppers can be customized to meet specific applications with the company providing total solutions including:

Engineering consultancy and EPC

- Design and manufacture
- Process optimization
- Analysis and consulting
- EPC

Training and know how

- Operation and maintenance
- Application optimization
- Industry experience

Manufacturing and delivery

- Delivered on schedule and on time
- Installation and commission services
- Installations in 20 countries

Maintenance

- Spare parts management
- Repairs and overhaul
- Retrofits
- Maintenance

Financial services

- Leverage buyout
- Minimum initial investment



These hoppers are specifically designed to act as balance storage and transfer units with minimal dust emissions to the atmosphere. The unit incorporates the following features:

- Enclosed operation:

Efficient evasive dust control for environmental protection through the top baffle collection arrangement. A constant negative airflow is maintained to the filter collector unit to ensure an enclosed and clean operation.

- Heavy duty loading chute:

The telescopic loading chute is able to automatically raise and lower according to the material height within the receiving truck/trailer. The loading chute is fitted with dust collection facilities.

- Low operation noise level:

Antivibration and air volume silencers are installed in order to maintain safe operating noise levels.

- Auto discharge quantity loading

The transfer hopper is able to load transfer according to called for weight requirements which are programmed according to the receiving truck/trailer load volume. This eliminates the requirements for separate weigh bridge operation and is capable of an accuracy of $\pm 1\%$.

- Flexible operating modes, optional discharge may be provided to:

- One truck or two trucks simultaneously
- One conveyor or two conveyors simultaneously
- One truck and one conveyor

- Flexible operation:

The transfer hopper can be controlled for 360° rotation to meet various discharge and loading requirements which ensures a high degree of flexibility making it available and ready to work quickly within the port facility. For transfer to storage, a draw bar is fitted to enable the hopper to be towed as required. The draw bar is drawn up to the side of the hopper for safe storage.

- Intelligent monitoring alarm system

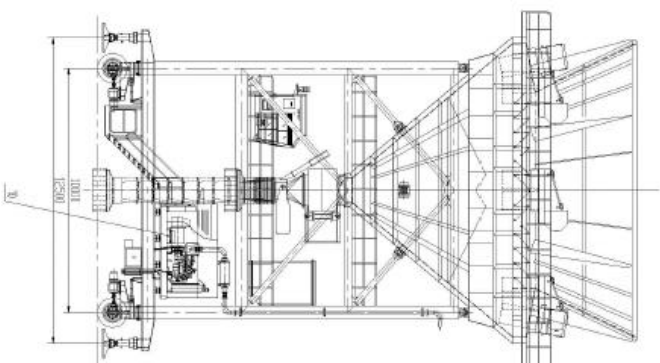
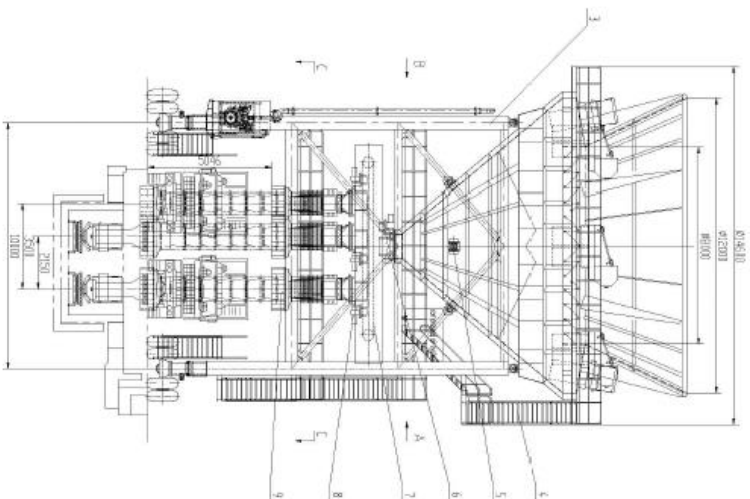
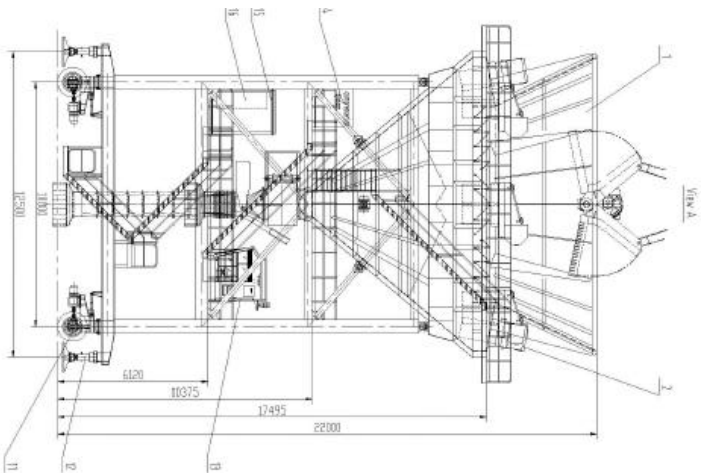
The hopper control incorporates overloads, thermal protection, level position and complete operation and safety monitoring and alarms to ensure reliable and efficient loading and discharge operations.



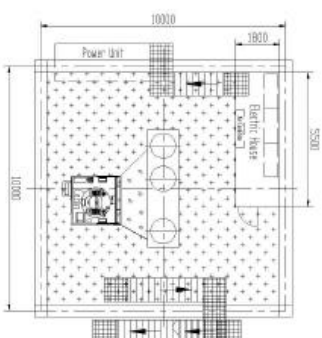
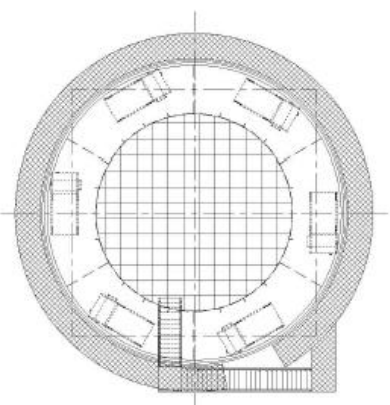
Optional discharge arrangements may be provided to suit the particular bulk cargos being handled and type of transporters being used. Fully automatic discharge control is able to be maintained through the use of remote mobile phone AP and direction by the transporter driver.



The receiving hoppers have a high degree of maneuverability and incorporate features for safe 24-hour operation at high capacity receiving and discharge rates while maintaining effective and efficient control over evasive dust and material spillage.



Section C-C



PERFORMANCE PARAMETER	
Model	General 730T
Max. Movement Capacity	1000 tons adjustable
Hooper Volume	90 m ³
Hooper Traveling Speed	0-25 m/min
Hooper Telescopic Extension	3 m
Hooper Telescopic Speed	5 m/min
Hooper Conveyor Speed	0.7 m/s
Hooper Wheel Load	170 kN
Dust Collecting System	Total >25000m ³ /hr dust collecting system
Diesel Generator Unit	Can adopt Renewable Type
Hooper Unit	Can adopt Renewable Type
Power Capacity	210 kW

16	Barrel Spine
15	Barrel Head
14	Compressor for Spine
13	Hooper S. Unit
12	Hooper
11	Barrel Traveling S. Unit
10	Power Unit
9	Barrel Spine
8	Barrel Head
7	Compressor for Spine
6	Hooper S. Unit
5	Hooper
4	Barrel Traveling S. Unit
3	Power Unit
2	Barrel Spine
1	Barrel Head

No.	Drawing No.	Description
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