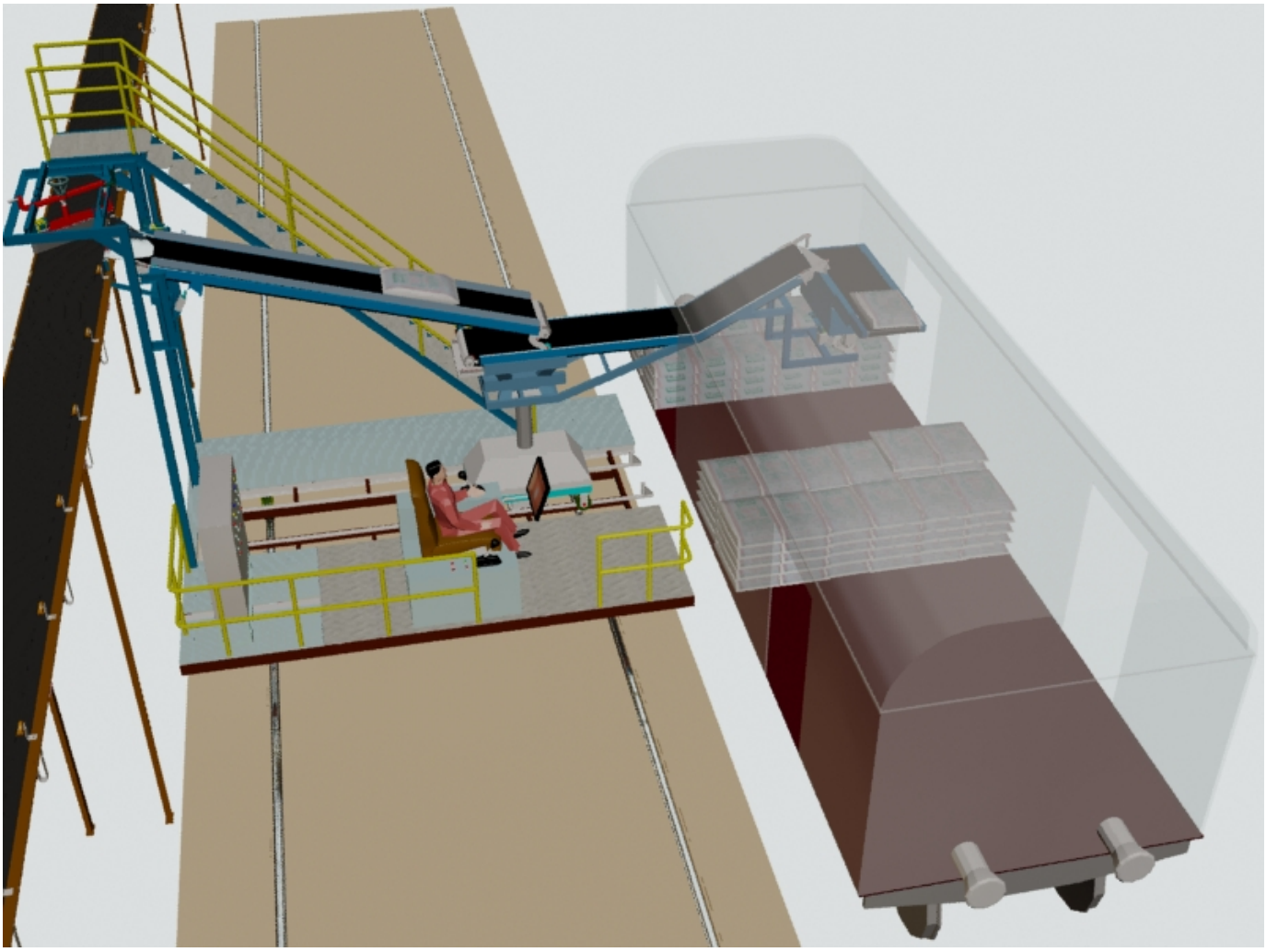
Zebec
MARINE CONSULTANTS & SERVICES

EZELOAD

Automatic Wagon Loader for Bagged Commodities



Patent pending

Whatever the load, ***EZELOAD*** can handle it ***Efficiently & Profitably***!!

Introduction

The EZELOAD© wagon loader has been exclusively designed by Zebec to meet a variety of material handling requirements.

The fully automated wagon loader is customized for Indian wagons of types such as BCNHL & BCNA (Bogie covered wagon) and BOXN (Bogie open top wagon). Incorporated with a telescopic belt, it caters to complex stacking needs and results in a drastic reduction in material handling time, due to increased productivity.

Unique feature includes two designs namely:

1) Standard Design (As Shown),
2) Customized Design (tailor made according to the operational layout of the clients system)

Technical Specifications

Components

- Telescopic / articulated Conveyer
- Bag Diverter
- Belt Conveyer 1
- Belt Conveyer 2

Handling Rate

- 1,200 bags per hour.

Power Requirement

- Installed power - 20 kW
- Operating power- 14 kW

Space Requirement

- 5.8 m x 4.6 m

Movement

- Three directional movement along the X, Y, Z axis
- Telescopic conveyer luffing of (+/-) 15° with 180° slew.
- Hydraulic Lifting Arrangement (HLA)

Competitive Advantage

Fully Automated Wagon Loader

- No labour required for loading thus a drastic reduction in operational expenditure.
- Saves time and increases productivity.
- Suitable for confined space working conditions.
- Low power consumption thus benefits during long production hours.

Customized for Indian Wagons

Can be used for following wagon types:

- BCNHL,
- BCNA,
- BOXN

Additional Features

- Ergonomically designed structure
- Display System monitors the operations inside the wagon.
- Suitable for hooking upto an existing plant conveyor
- Corrosion Resistant
- Equipped with Geared Motor

Suitable For Various Bagged Cargoes

Cement

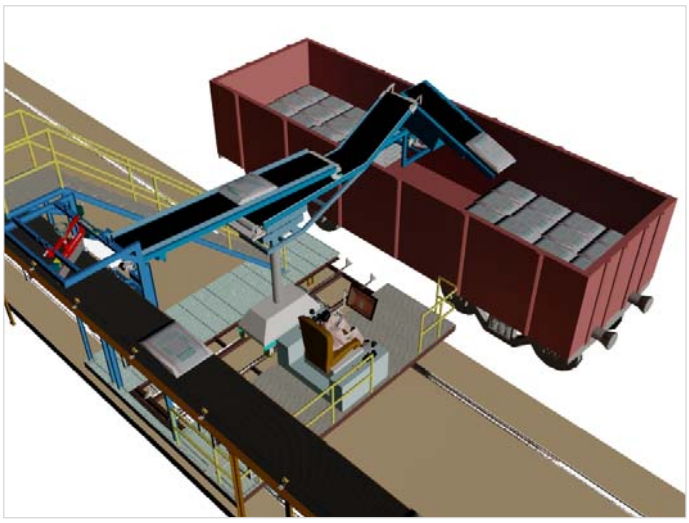
Fertilizer

MOP

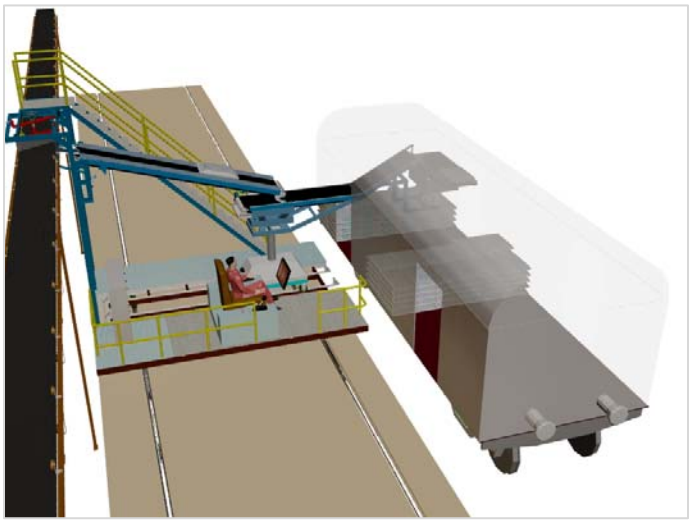
Urea

DAP

Food Grains

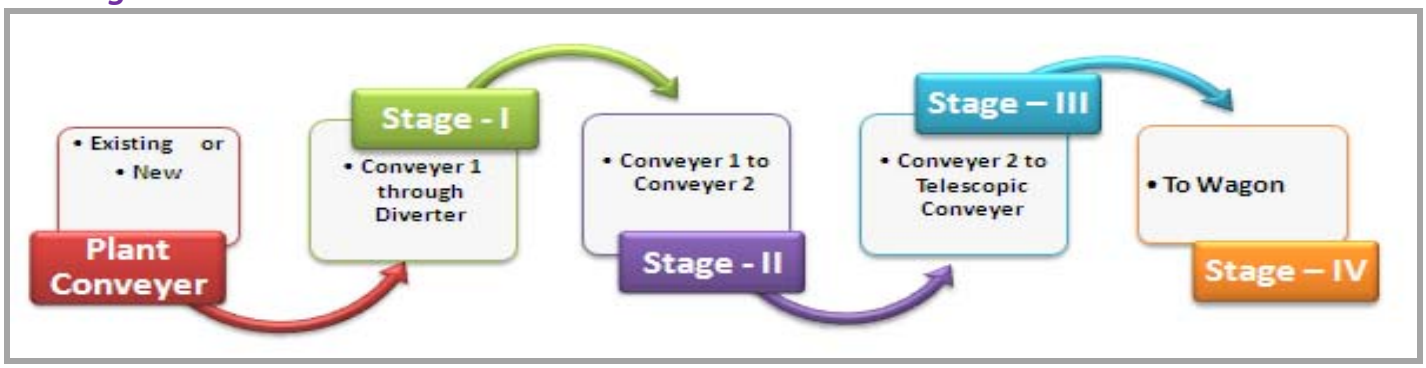


Loading process into BOXN type open wagon

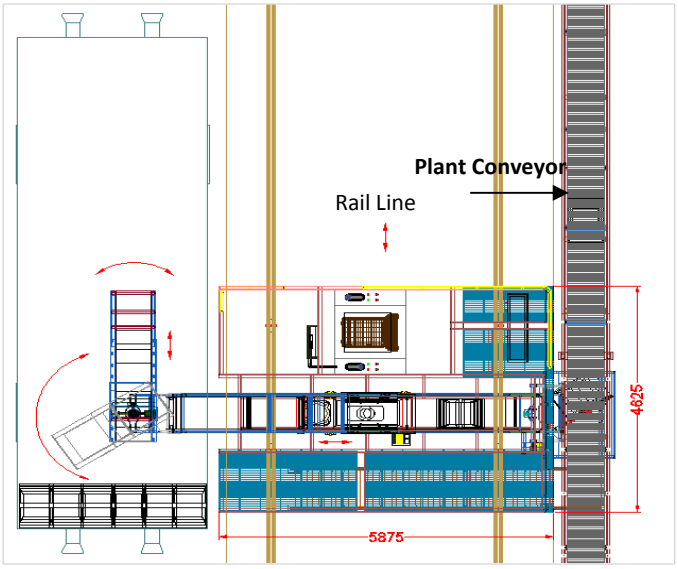


Loading process into BCNA & BCNHL type closed wagon

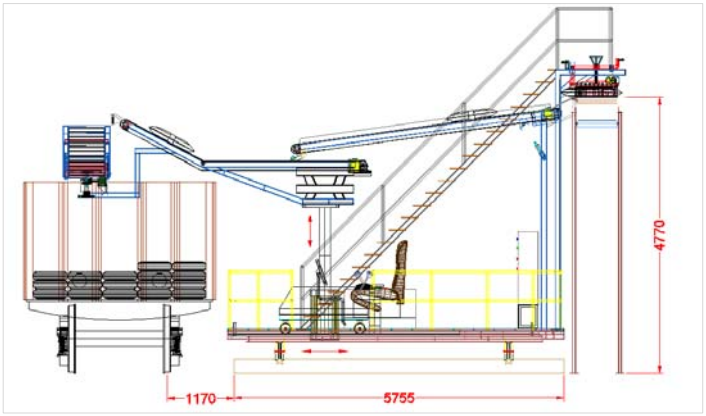
Loading Process



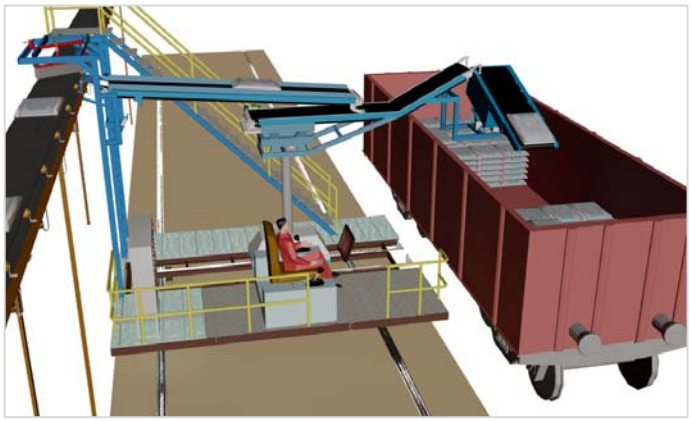
- Wagon loading process comprises of 4 dedicated stages, starting from Plant conveyer to the Wagons
- **Stage – I :** Diverter directs bags from Plant conveyer to Conveyer 1.
- **Stage – II** : Bags fall from conveyer1 to conveyer 2.
- **Stage – III** : Conveyer2 leads the bag to Telescopic/articulated conveyer.
- **Stage – IV:** Telescopic conveyer places the bag in the wagon.
- The HLA will enable that the stacking is properly done. This will ensure that even open wagons can be filled easily.



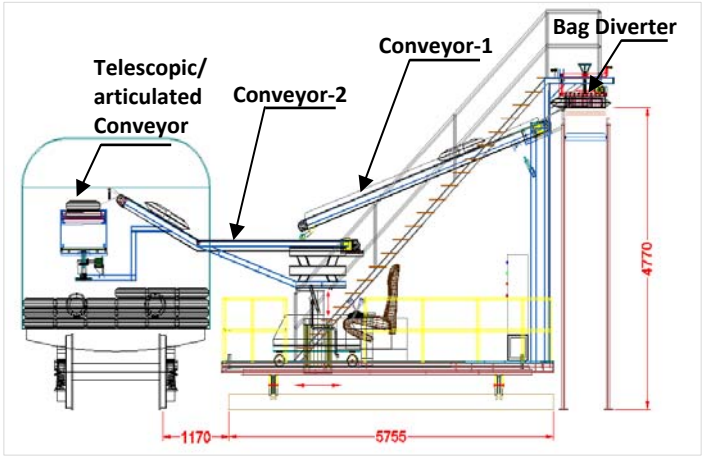
GA of Working Loader



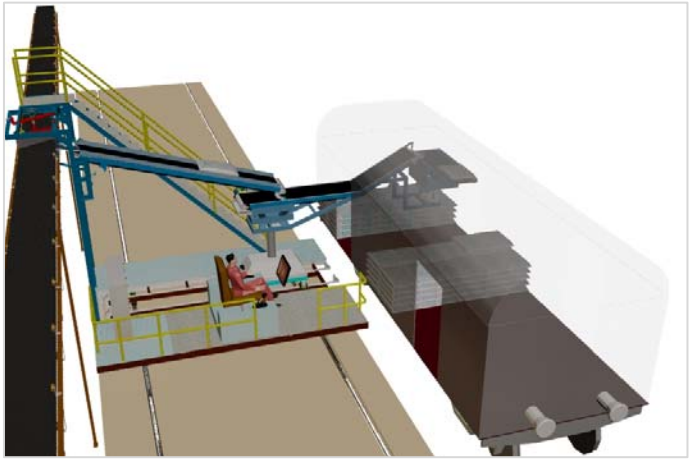
Working on BOXN type open top wagon



Working on BOXN type open top wagon



Working on BCNA & BCNHL type closed wagon



Working on BCNA & BCNHL type closed wagon

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