

AUTOMATION



deneb

LINEAR ARM SORTER

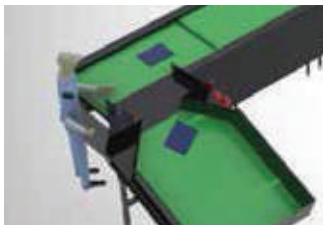
With a sorting rate of upto 2000 pieces per hour, our DENEb Swing Arm Sorter is a cost effective entry level sorting solution designed for low to medium volume centers.

the mechanical arms which sit at the plastic modular conveyor surface use electric power to push and divert the moving items.

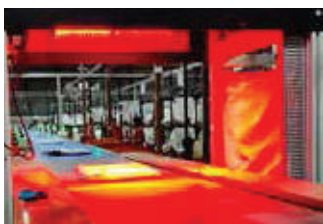
PRODUCT HIGHLIGHTS

- 1** Low-cost and high-throughput: Our throughput to cost ratio is the best in the industry.
- 2** Flexible : The layout of the electric arms can be designed as per the operational requirement.
- 3** Product handling: The linear arm sorter can handle a variety of product types like cartons, woven bags, sacs etc.
- 4** System alerts: With tower-lights and system defined alerts, you get the full visibility during the sorting cycle.
- 5** Double Decker: The system can be made double decker to save space and achieve double throughput.
- 6** Small footprint: Can be installed in extreme tight space.
- 7** High uptime: With our indigenously designed hardware, software & controls, we control every aspect of the sorter to ensure maximum uptime of the system.
- 8** Multi-sorting logics: Multi level sorting logics can be set based on the barcode type, shipment type, weight and others.

SYSTEM COMPONENTS



Take-off Conveyor - This is the single point entry of shipments in our DWS. It is meant to be used for bulk loading. This induction keeps in mind the principles of ergonomics and makes sure that minimum strain is caused to the operators.



Barcode Scanner - Our barcode scanners have semi-automatic as well as automatic feature utilizing our proprietary vision algorithms and high resolution cameras. Enables fast and complete image capture of in motion parcels and barcodes.



Dynamic Spacer - Presence of the dynamic spacer ensures minimum distance between two parcels to perform accurate weighing. A spacer is added to make sure the user need not slow down their loading process.



Dimension Scanning - Any shipment passing through our system gets instantly measured by our 3D camera with upto ± 5 mm accuracy. It is capable of measuring boxes of varying dimensions in any orientation at high speeds with integration .



Weighing - Our special weighing conveyor is a rugged yet sensitive conveyor designed to handle items of different weights, but providing the same level of precision and accuracy while in motion!



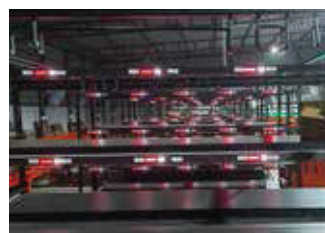
Shipment Imaging - With an overhead mounted camera, it is possible to capture real time images of the shipments & profiles while travelling on the conveyor line. The images then can be transferred to local PC or cloud or client's ERP/SAP system.



Sorting / Rejection - Based on the scanned barcode and captured details, the shipment then can be diverted to the destinations with the help of the

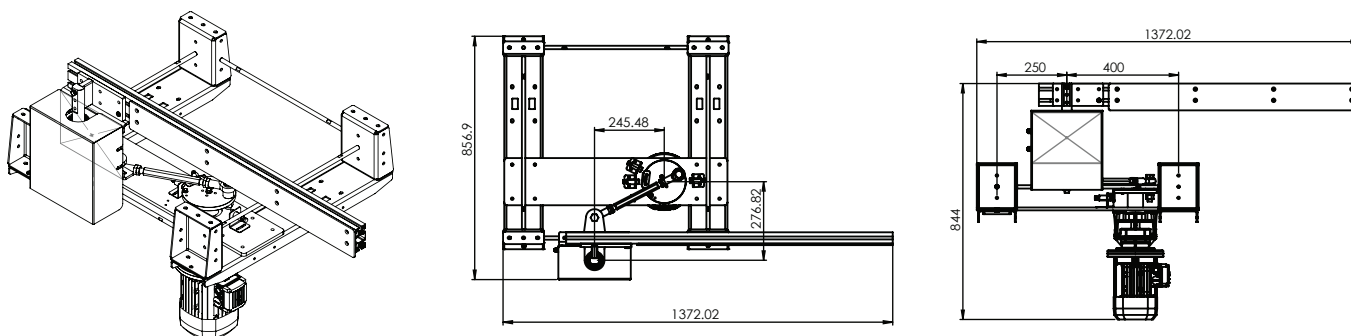


Chutes - The sorter arm diverts the moving items into chutes. The number of chutes/destinations can be configured as per the operational requirements. Chutes can be padded for fragile items.



Put to Light Systems - The items sorted through linear arm sorter can be further sorted at a sub-level (secondary sorting) with the help of put to light system.

TECHNICAL SPECIFICATIONS



DENE Linear Arm Sorter	Medium	Large
Min. Product Size	10 x 10 x 3	10 x 10 x 3
Max. Product Size	600 x 500 x 500	900 x 700 x 700
Min. Product Weight	2 kg	2 kg
Max. Product Weight	10 kg	20 kg
Item Types	Cartons, Woven base	Cartons, Woven base
Throughput	2000	1000
Diverting Angle	90°	90°
Conveyor Speed	1.5m /sec	1.5m /sec

SOFTWARE SUITE - SORTCONTROL

Our proprietary software 'Atcoworkz SortControl' manages the sortation process data starting from the induction to the bar-code scanning, sortation and take-away. All the data can be viewed, exported and synced to the client's ERP from a single user interface.

- Dashboard with live status
- MIS Reports with interactive charts & graphs.
- Real-time data export and integration with WMS.
- Analytics of user productivity, system performance & others.
- System alerts & notifications management
- Ticket management system

