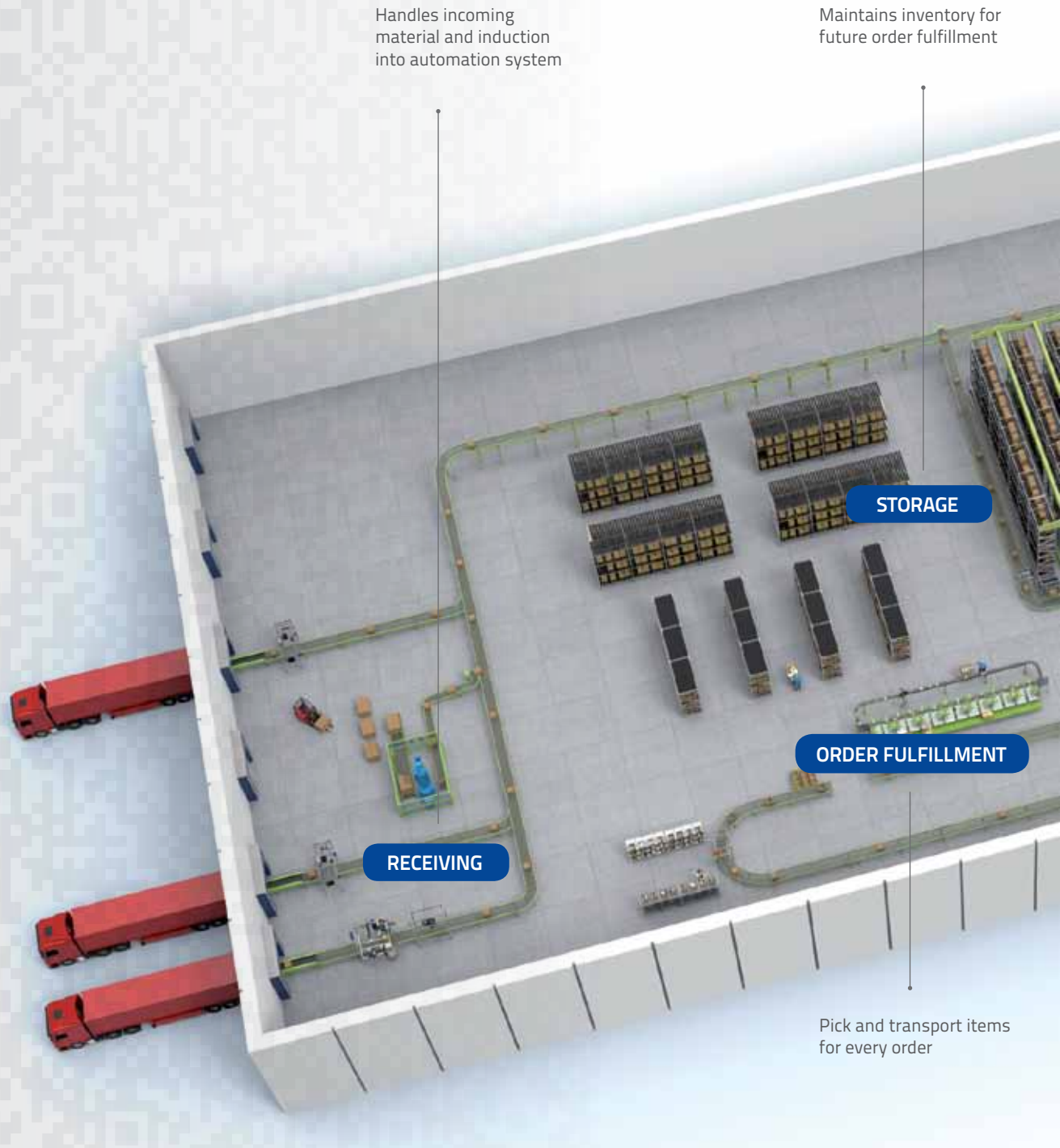
INDUSTRY GUIDE

>Distribution Center

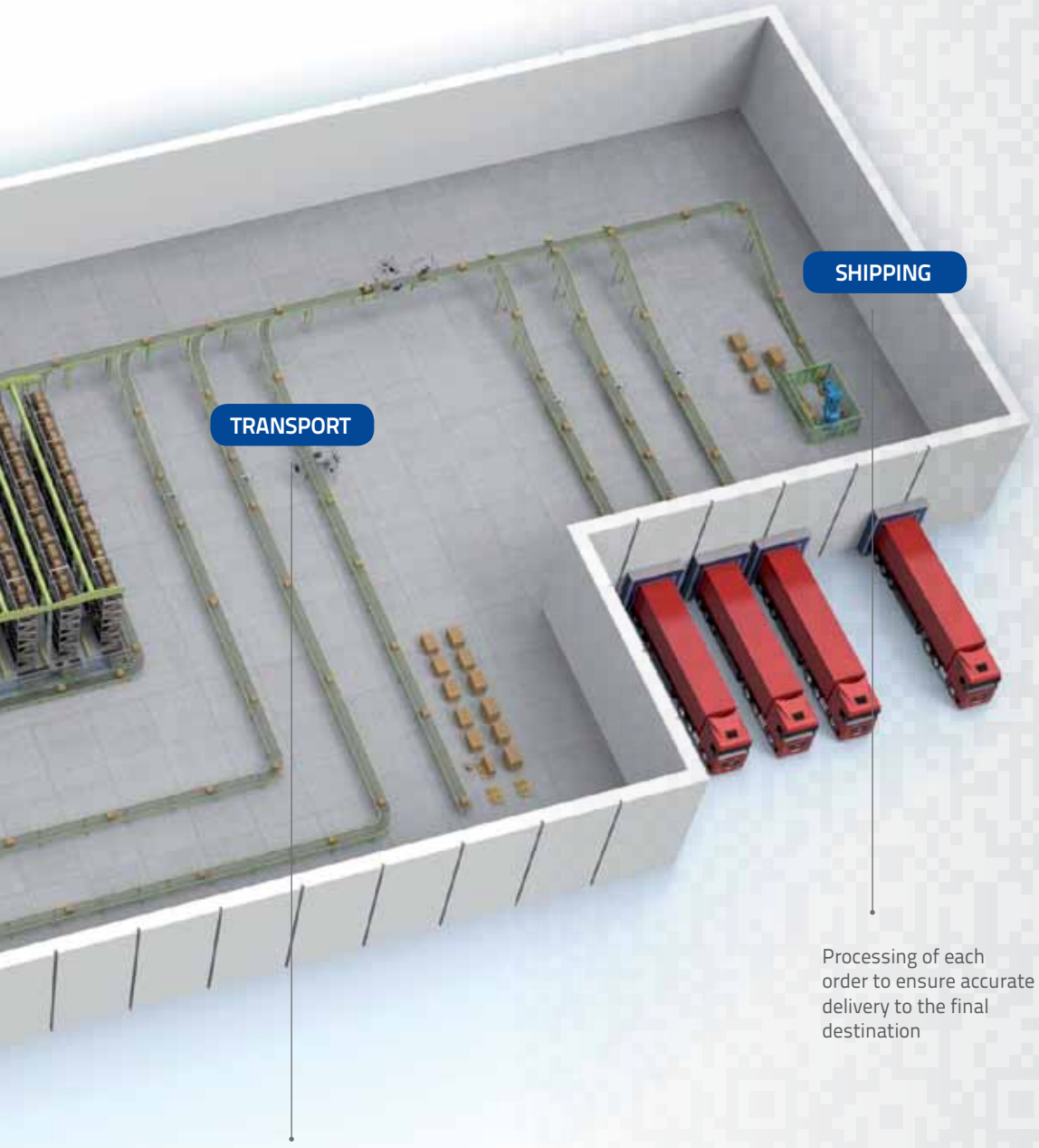
>Solutions for efficient distribution

DATALOGIC
THE VISION IS YOURS

DISTRIBUTION CENTER



Datalogic offers the most extensive solution portfolio for improving processes within any distribution center. The automation of a distribution center can provide substantial benefits and significant labor savings. All stages of material handling have the potential for increased efficiency; from the Receiving Area, where implementing an automated cross-docking process can bypass storage



Processing of each order to ensure accurate delivery to the final destination

Move material quickly and accurately throughout the distribution center

and inventory entirely; to the Shipping Area, where integrated manifesting systems ensure the lowest cost shipping carriers are used. Inside the four walls of a distribution center, automated storage and order fulfillment systems can deliver substantial operating savings, while providing improved accuracy and a safer operating environment.

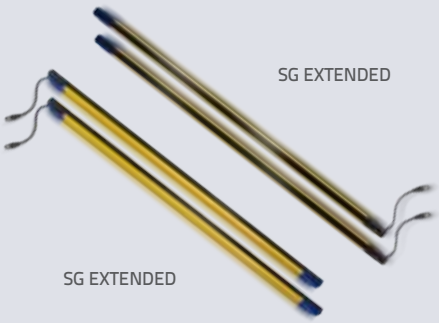
RECEIVING

DETECTION

S3Z PRESENCE SENSOR
Detect items on unloading conveyors.

S300 PRESENCE
Detect cartons being unpacked by robotic de-palletizers.

PROTECTION



SG EXTENDED SAFETY LIGHT CURTAINS
Protect fingers, hands and bodies from Label Print & Apply Systems.

SG EXTENDED SAFETY LIGHT CURTAINS
Prevent Operator ingress for full protection around robotic de-palletizing area.

ID TRACK AND TRACE

DS8110, DX8210N, MATRIX 450, NVS9000
Read vendor bar codes from all sides of incoming containers.

DS4800, AL5010
Capture incoming pallet bar codes, from forklifts, in all environments.

Automated receiving stations reduce labor and increase processing volumes by identifing the products, report information to the host system (WMS/ERP/MRP), receive against an order to the vendors/customer, host system decision, label printing, cross docking, or palletizing / depalletizing stations with optional dimensioning and weighing.

AL5010

DS4800

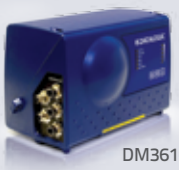
MATRIX 410N™

DS4800, AL5010, MATRIX 410N
Verify bar code information and track product location, after Label Print and Apply Station.

AL5010, DS6300/6400 OSCILLATING MIRROR, DS4800OM, MATRIX 410N, MATRIX 450
Identify pallet bar code in robotic de-palletizing area.

DIMENSION/WEIGH/SCAN

S85



DM3610

FAST Label

DS2

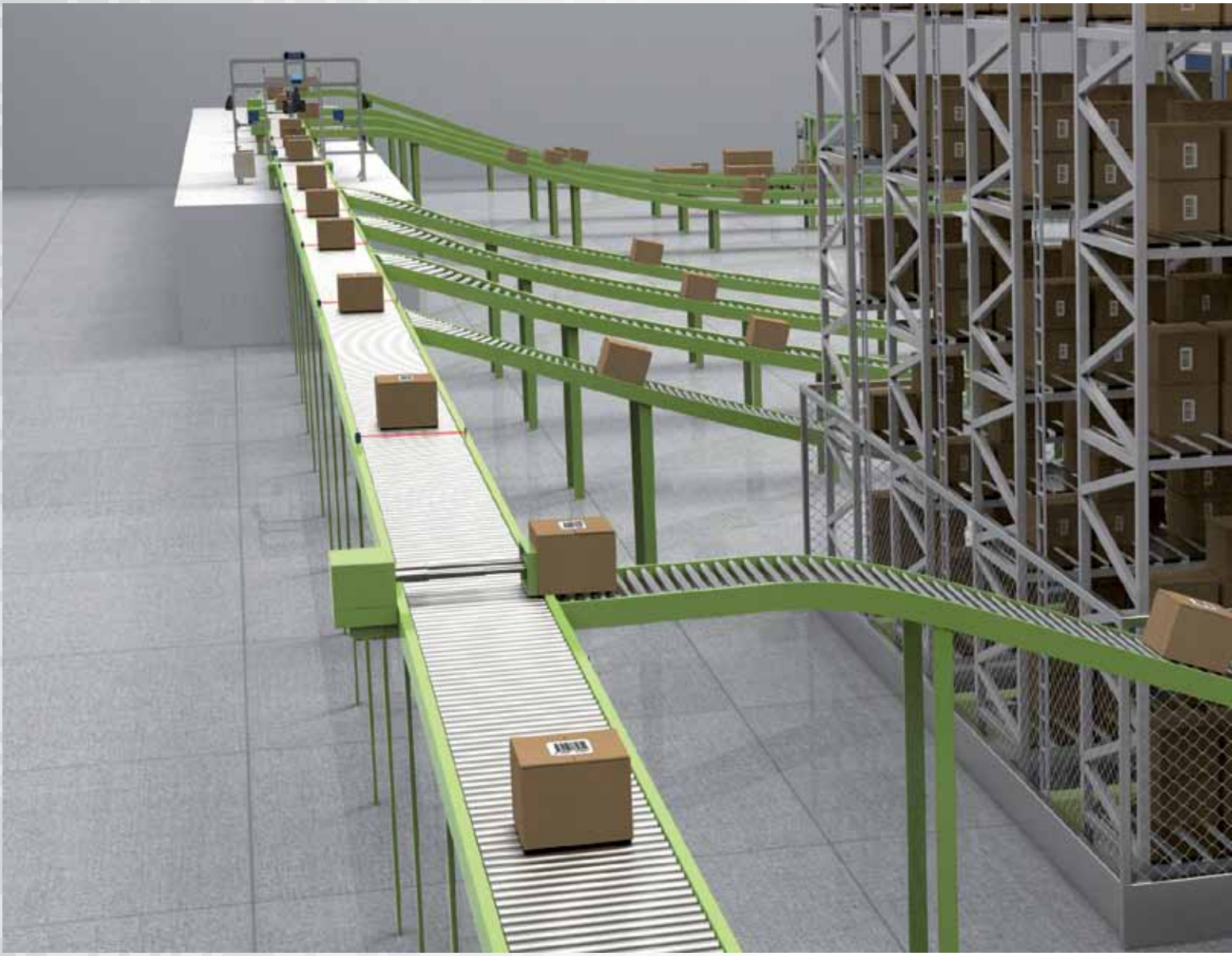
DM3610
Dimensions incoming freight for vendor verification and spatial planning.

DM3610, DS SERIES MEASUREMENT LIGHT ARRAY
Communicate volume and dimensional information to automated receiving station for high performance, high volume, mixed shipment receiving.

FAST LABEL
Controls and manages subsystems for identifying, printing, weighing, dimensioning and communicating with host systems.

S85 SERIES TIME OF FLIGHT DISTANCE SENSOR
DS2 SERIES MEASUREMENT LIGHT ARRAY
Communicate distance and height information to Label Print and Apply System, for proper label application to top of cartons.

TRANSPORT



DETECTION

S3Z/S100 PRESENCE SENSORS
PRESENCE SENSOR
Detect items for decision point identification.

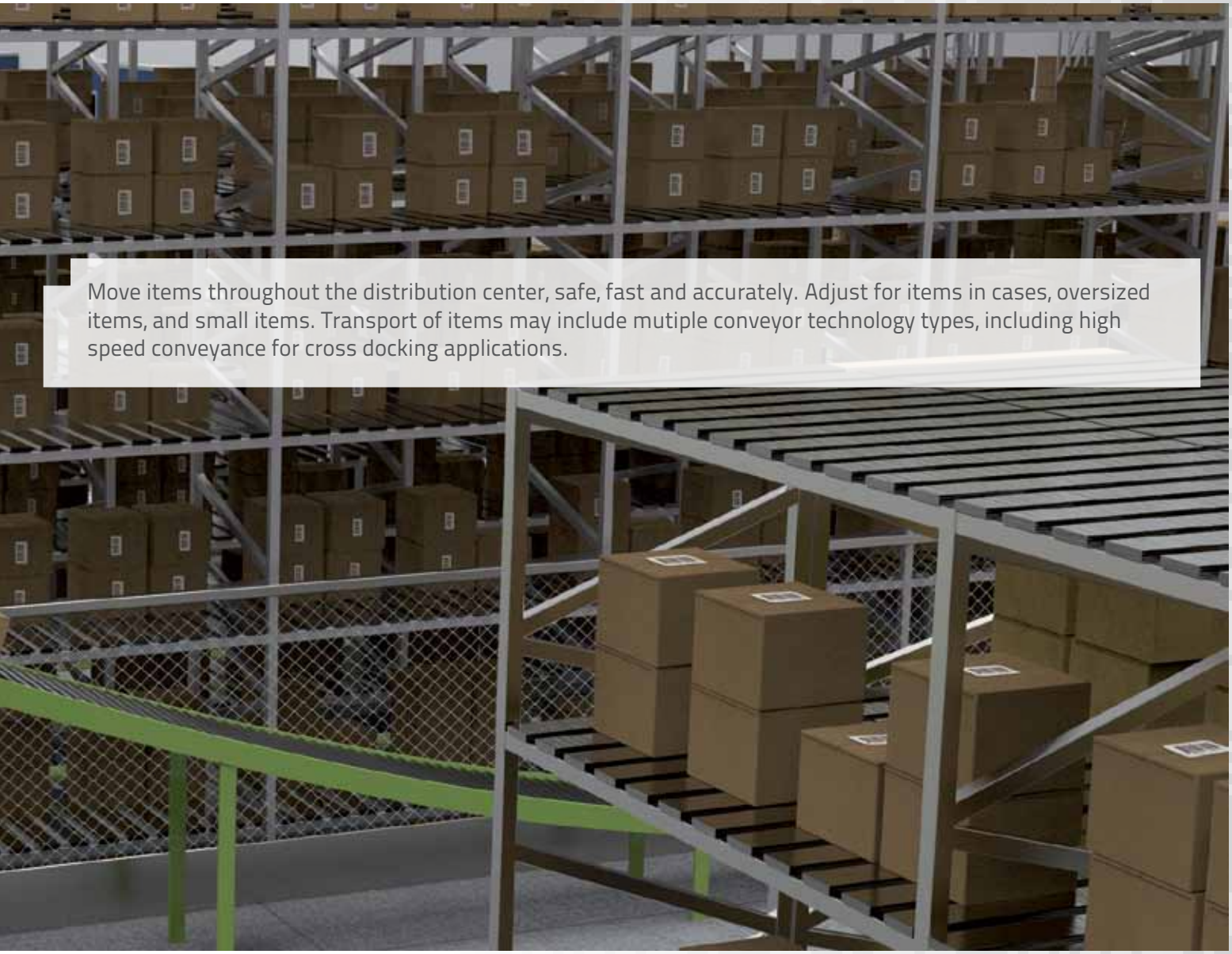
P-SERIES
Detect item presence on conveyors, in totes, or on tilt trays.

PROTECTION

SG EXTENDED SAFETY LIGHT CURTAINS
Protect operators near & along accessible lengths of conveyor.

ID TRACK AND TRACE

DS210N0/DS2400/DS4800/DS8110/DX8210
Read tote and carton bar codes. Analyze captured bar code images to re-direct totes with degrading



Move items throughout the distribution center, safe, fast and accurately. Adjust for items in cases, oversized items, and small items. Transport of items may include mutiple conveyor technology types, including high speed conveyance for cross docking applications.

XRF410N

MATRIX 410N™

MATRIX 300N™

MATRIX 450™

XRF410N/MATRIX 300/MATRIX 410N/MATRIX 450
codes to service lane, before they negatively affect performance.

DIMENSION

S85

DS2

S85 SERIES TIME OF FLIGHT DISTANCE SENSOR
DS2 SERIES MEASUREMENT LIGTH ARRAY
Measure & control the height of items being conveyed, to ensure protection of material handling systems.

STORAGE

DETECTION

S80

S80 DISTANCE SENSOR
Provides position feedback for control of automated cranes.

PROTECTION

SG BODY BIG

SG BODY BIG SAFETY LIGHT CURTAINS
Prevent Operator ingress for full protection around robotic crane area of Automated Storage and Retrieval System.

ID TRACK AND TRACE

DS4800

AL5010

MATRIX 410N™

XRF410N

DS210N0N
DS2400N

DS4800, AL5010, MATRIX 410N, XRF410N
Verify bar code information and track product location, after Label Print and Apply Station.

DS2100N, DS2400N
Identify tote or parcel to be sent into storage area.

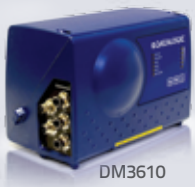
Storage systems handle inventory for cases, totes or pallets including food items in refrigerated environments. Items are moved from storage to order fullfillment, and may return to storage again. Automated Storage and Retrieval Systems handle cases or totes with fully automated crane and conveyor systems. Manual storage locations may hold break case inventory.

FAST Label

LP&A

FAST LABEL AND LABEL PRINT & APPLY
Apply new shipping label upon exit from storage area.

DIMENSION



DM3610

DM3610
Measures materials being storedfor product verification.

ORDER FULFILLMENT

Processing of single or multiple orders, by filling shipping containers with the correct items. Order fullfillment can handle items at the case level or unit level, depening upon the operation. Fullfillment may also include packing, manifesting and applying the shipping label for destination.

DETECTION

S3Z/S100 PRESENCE SENSOR
Detect items in conjunction with scanners, for tracking cases in a multilevel pick modules. Trigger Print & Apply system.

PROTECTION

SG EXTENDED SAFETY LIGHT CURTAINS
Protect operators near & along accessible lengths of conveyor.

ID TRACK AND TRACE

MATRIX 410N, MATRIX 450
Verify manual picking of correct product when using pick to light solutions.

DS2400N, DS2100N, DS4800 with GFC, MATRIX 210N
Provide routing and verification of totes and cartons conveyed in multi-level pick modules.

MATRIX 210N™

MATRIX 410N™

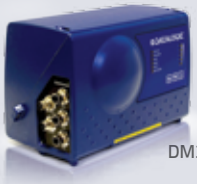
DS210N0N
DS2400N

MATRIX 210N, MATRIX 410N, MATRIX 450, DS4800, AL5010, DS2400N
Verify bar code information and track product location, after Label Print and Apply Station.

AL5010, DS4800 w/ OM, 6K
Verify barcode information on the side of pallets.

DIMENSION

S85



DM3610

DS2

S85 SERIES TIME OF FLIGHT DISTANCE SENSOR
DS2 SERIES MEASUREMENT LIGHT ARRAY
Dimension carton for label print and apply system.

DM3610
Dimension carton for DWS and labeling system.

SHIPPING

Sortation systems identify the shipping carton and conveys it to the correct shipping lane. Manifesting systems ensure accurate labelling and lowest cost shippping carriers based on dimensional, weight, and destination information.

DETECTION

S3Z/S100 PRESENCE SENSOR
Detect items in conjunction with scanners, for tracking cases in a multilevel pick modules. Trigger Print and Apply system.

PROTECTION

SG EXTENDED SAFETY LIGHT CURTAINS
Protect operators near & along accessible lengths of conveyor.

ID TRACK AND TRACE

DS8110, DX8210, MATRIX 450, NVS9000
Provide sortation direction from shipping label information read from any side of carton.

DS4800

A/T/P SERIES

MATRIX 450™

MATRIX 410N™

XRF410N

A/T/P SERIES, MATRIX 410N, MATRIX 450, XRF410N
Record evidential proof on contents of a container before taping or at trailer load with Vision & ID systems.

DIMENSION

DM3610

DIMENSION, WEIGH & SCAN

LABEL, PRINT & APPLY

DM3610
Dimension outgoing freight for trailer utilization / spatial management.

DIMENSION, WEIGH & SCAN / LABEL, PRINT & APPLY
Provide Automated solution for labeling cartons based on lowest cost carrier using dimensional, weight and destination information. Ensure accuracy of correct shipping label, to reduce errors.

NOTE

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