

BASTIAN SOLUTIONS PRESENTS

GOODS TO PERSON SOLUTIONS

GTP or Goods to Person (noun): a modernized method or style of order fulfillment that stores and retrieves merchandise and/or assists in the picking process and delivery to a staging area for packing and dispatch.



GRID-BASED STORAGE

- High-density cube design
- Ideal for tight spaces
- Bins, robots, pick interfaces
- Easily adapts to changing requirements



SHUTTLE & RACKING

- Can move across levels, aisles
- Shuttles, racking
- Totes, trays, cartons
- Manufacturing, buffering, delivery products



AISLE-BASED SOLUTION

- Maximize overhead space, narrow footprint, secure enclosures
- Aisle-based equipment, static racks or shelves, various load-handling devices
- Totes or bins
- SKUs with mid-range activity



AGVS & AMRS

- Dynamic storage, integrates with existing infrastructure
- Shelving, AMRs
- Cartons, boxes or bins
- Inbound receiving, storage, outbound order picking

INTEGRATED PICKING SYSTEMS

Pick to Light & Software

- Create productive, ergonomic and accurate workstations

AI-Powered Piece Picking Robots

- 24/7 lights out operation
- Accelerate new SKU integration
- Scalable and flexible for future operations

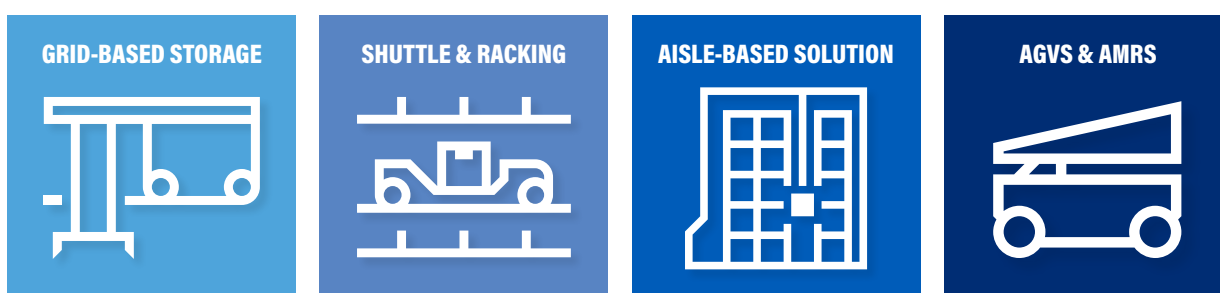
Bastian SOLUTIONS
a TOYOTA ADVANCED LOGISTICS company

FUN FACT

The global warehouse automation market was valued at **\$29.6 billion in 2020**. By **2025**, it's expected to grow to **\$69 billion**, with **CAGR** (compound annual growth rate) of **18%**.

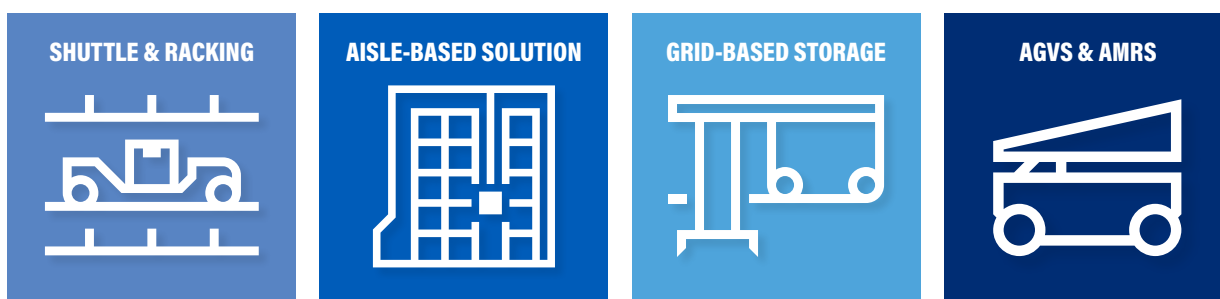
Source: Warehouse Automation 2021 report by Interact Analytics

STORAGE DENSITY



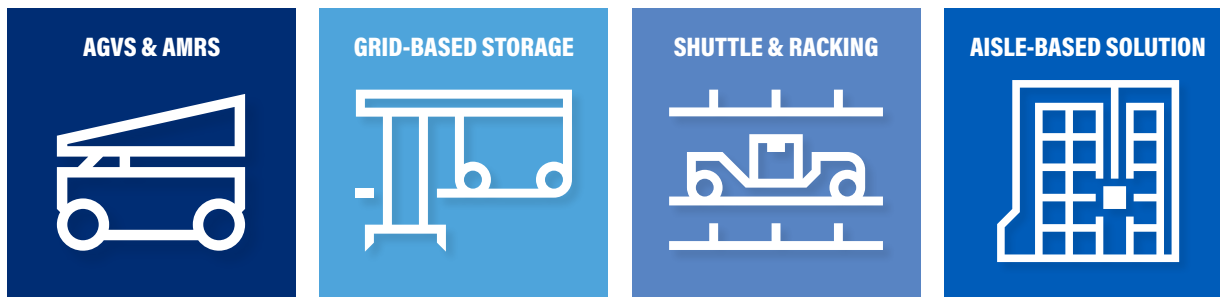
Highest Density To Least

SPEED, THROUGHPUT RATE



Fastest To Least

FLEXIBILITY, COST OF EXPANSION



Most Flexible To Least

PONDER POINTS

How much automation is just enough? As a general rule, automation should simplify and maximize optimal processes.

BENEFITS

- Dynamic solution that keeps up with market changes
- Physical space constraints
- Scalable with no operation interruption
- Energy efficient
- Lights out solutions
- Ergonomic workstations

IMPACT

- Adjust to labor availability
- Increase efficiency and accuracy
- Improve labor ergonomics and safety
- Eliminate travel time
- Faster ROI

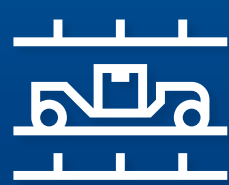
CONSIDERATION

- Facility slab thickness
- Facility configuration and available space
- Product velocity: speed of picking, fast-moving SKUs, kitting storage

GRID-BASED STORAGE



SHUTTLE & RACKING



AISLE-BASED SOLUTION



AGVS & AMRS



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