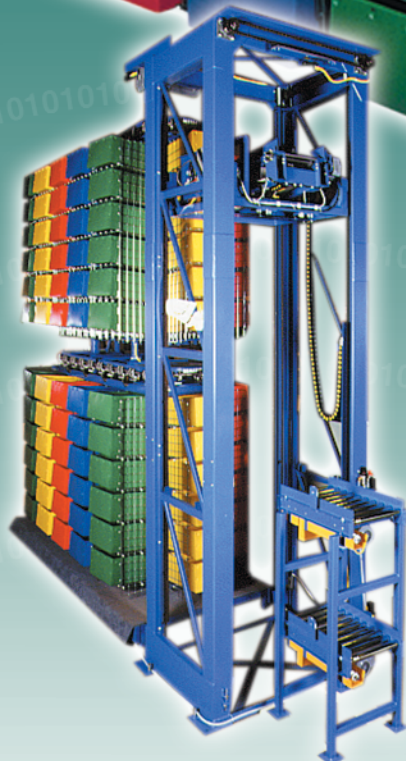


Horizontal Carousels



*Automated Cost Effective High Density
Storage & Retrieval System for Manufacturing,
Service, Distribution & Warehousing*

automated storage & retrieval system

REMSTAR

www.Remstar.com

horizontal carousels

CONSIDER THE ADVANTAGES

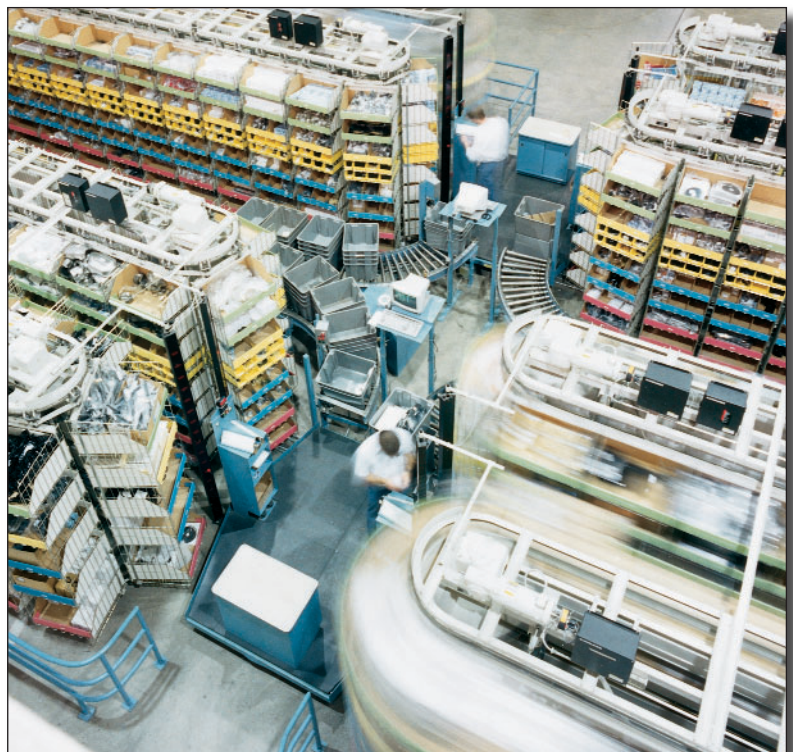
- Increases order picking throughput up to 600%, items are quickly delivered to the operator.
- Reduces cubic storage space requirements 40% to 60%, freeing up valuable floor space.
- Improves accuracy to 99.99% - Pick Light systems indicate what and how many items to pick.
- Reduce man-hours by up to 77%.
- Extend order cut-off times.
- Reduce inventory by providing better management.
- Performs at nearly 100% uptime. Rugged construction and design require little maintenance.
- Reduces inventory shrinkage by increasing operator accountability.
- Increased operator supervision - employees pick from visible work area.
- Systems often provide an R.O.I. under 12 months.

REMSTAR

*Global Resource for Complete Automated
Storage & Retrieval Solutions*

The Remstar Difference

- **Experience** — As a material handling leader, Remstar has pioneered high-efficiency storage and retrieval solutions for four decades.
- **Standard Controls** — all of Remstar's carousels utilize the same standard protocols to assure easy and consistent communications.
- **Highest Safety Standards** — all Remstar's horizontal carousels meet and/or exceed the proposed ANSI standards.
- **Low Maintenance** — only one hour twice a year per carousel.
- **Durability** — carriers and shelves are zinc-plated for longer surface wear, trolley wheel bearings are "sealed for life."
- **Accuracy** — Remstar's user-friendly FastPic4 and Transaction Processor software packages track all items, and provides complete control of inventory and order picking.
- **Self Lubrication** — stainless steel support track produces smoother, quieter operation and lower power consumption.
- **Integrated Systems** — from manually controlled and activated carousels...to semi-automated systems with inventory and warehouse management software, conveyor, pick-to-light and ergonomic workstations...to fully automated robotic PicStar inserter-extractor systems, Remstar has the experience and capabilities to provide low risk integrated systems solutions.



Reduce Space Requirements Up To 60%

- Expand internally by increasing your storage capacity to 60% in your existing space or reclaim this unutilized floor space for more productive purposes.
- Shelves can be spaced as little as 2 inches apart for maximum storage density.
- Vertically stack up to 3 carousels to maximize the use of overhead space.



Pick Light Systems

Improve Accuracy And Productivity

- Bright indicators show at a glance which carousel and shelf to pick from and how many items to pick, reducing picking errors and maximizing productivity.
- Special indicators allow multiple orders to be picked simultaneously (batch picking) by showing the exact number of items for each order container, dramatically increasing operator productivity.
- Optional software & bar coding enhance order processing, replenishing, communications to host, and reporting accuracy.

Remstar's Pick Light system tells at a glance which carousel and shelf to pick from and how many items to pick.



CUSTOMIZATION FOR APPLICATION VERSATILITY

After analyzing your specific requirements, a system can be customized based on a range of heights, widths, weight capacities and carrier configurations.

Applications include:

- Buffer Storage
- Distribution
- E-commerce Order Fulfillment
- Electronics Kitting
- Grocery Distribution
- Hospitals
- Manufacturing
- Media Storage
- Order Consolidation
- Pharmaceutical
- Refrigerated & Freezer Inventory
- Stockrooms
- Work In Progress
- Return Handling Processing

UNPARALLELED SERVICE AND SUPPORT

From initial analysis of your application to installation, training and beyond, Remstar works closely with you to develop solutions that maximize your productivity and profitability. As you continue to grow, Remstar serves as a valued resource for storage and retrieval expertise.

EXCLUSIVE WARRANTY PLANS

Best warranty up to 5 years

We offer extensive warranty plans, including standard and extended warranty programs. To ensure optimum performance and minimum downtime, Remstar equipment is serviced only by highly trained authorized technicians.

STORAGE & RETRIEVAL

Design Features Provide Maximum Safety and Performance

Remstar Horizontal Carousels are designed for fast, reliable performance...ease of use...and total safety.

- RRC-II controller handles up to 4 carousels at a time, expandable up to 8.
- Photocell sensors monitor pick face to prevent rotation when an item breaks the beam.

Carousels can be vertically stacked to maximize use of overhead space.



CERTIFICATIONS

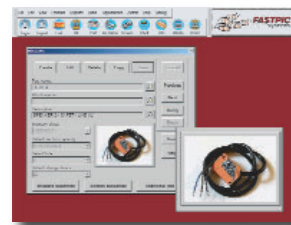
Remstar offers the following certifications on many of its products:

- **UL/C** Tested and listed
- **ANSI** Proposed ANSI standards
- **AWS & ASME**
Standards are met and/or exceeded for steel fabrication and manufacturing
- **ISO-9001 & 14001**
Certified for equipment manufactured by Bellheimer Metallwerk

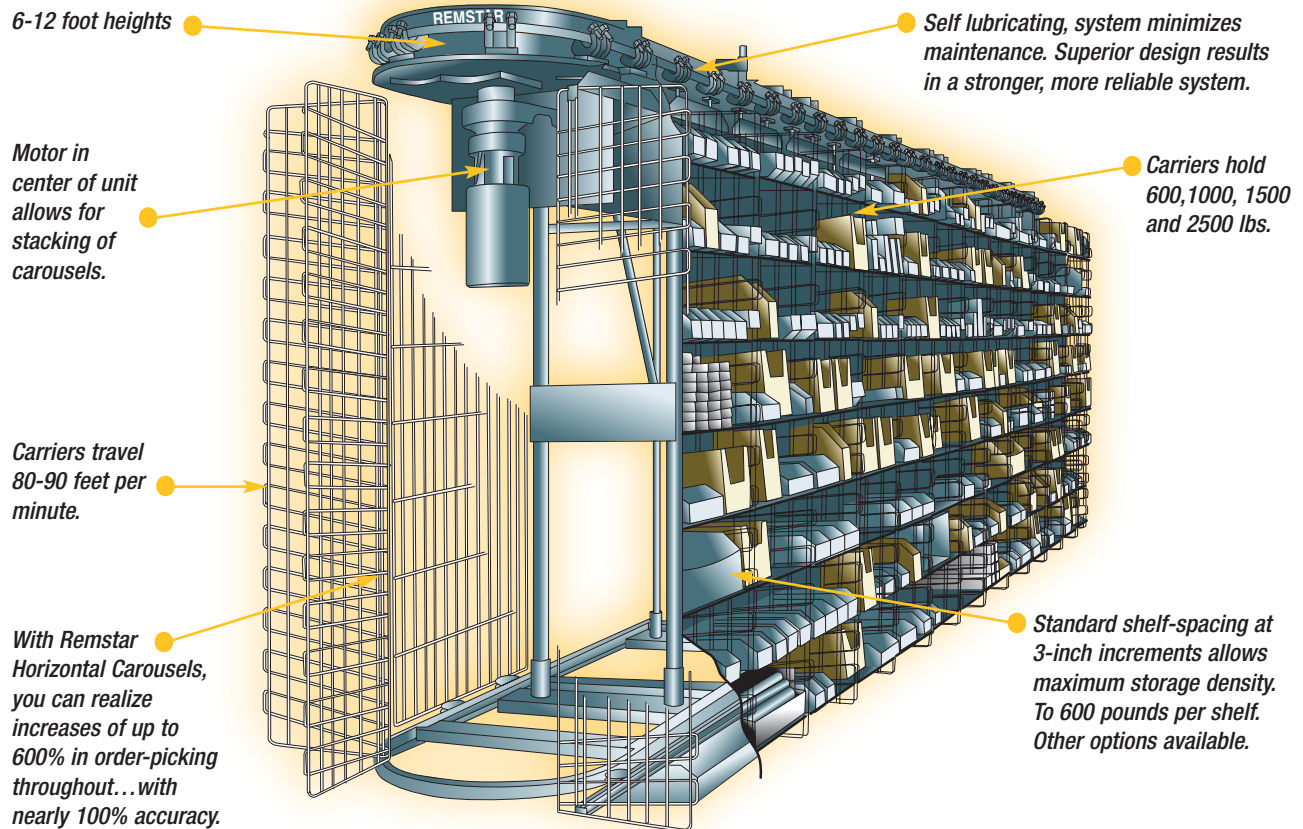
Quiet, efficient carousels provide dependable performance and minimizes maintenance, providing nearly 99.5% continuous uptime.

User Friendly Inventory Control

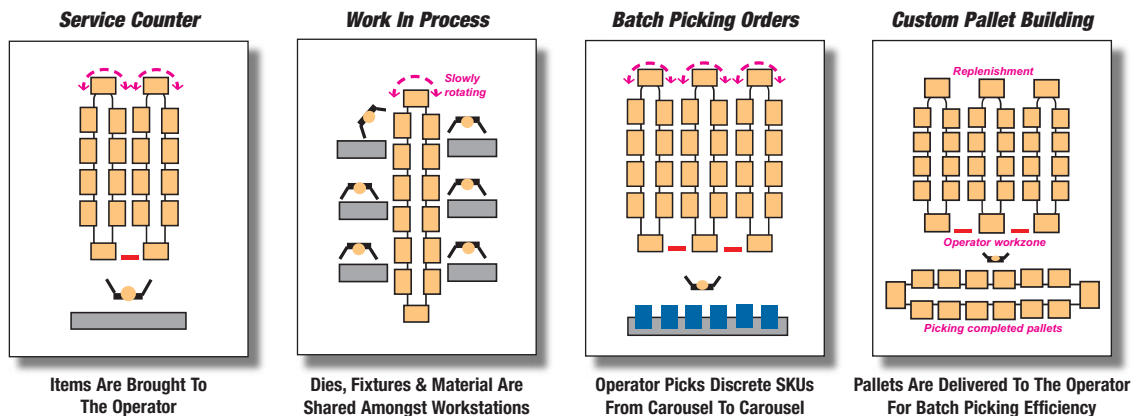
The FastPic™ suite of inventory management software provides high throughput transaction speeds with point & click simplicity. Feature rich supervisory reports, bulk storage management, pick banding, continuous batch picking, plus controlling one or multiple workstations & equipment including rack, shelving, pick-to-light flow rack, carousels, VLMs and more!



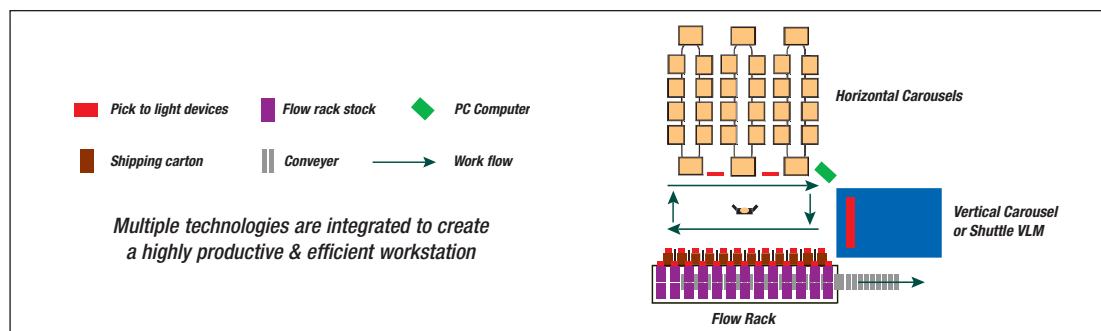
Remstar Horizontal Carousel



Typical Carousel Applications



Universal Workstation



Solutions For A World Of Applications

Horizontal Carousels

- Standard Drive - highly cost effective, durable & reliable system
- Heavy Duty - for non-stop 24/7 and heavy load applications
- Pallet Carousel - for building custom/mixed pallet loads, work in progress & buffer storage
- Dual Drive - for fast heavy loads & mission critical applications & highly accurate positioning

One of the largest selections of carousels to meet your needs

Remstar International Inc. offers a broad selection of automated storage and retrieval solutions which are designed to increase productivity, reduce floor space requirements, and allow companies to become more competitive in daily operations.

The experience of over 75,000 installations, combined with an aggressive and ongoing product development program, has resulted in a line of innovative products developed around our customers' storage and retrieval requirements. Applications in a wide range of industries include electronics, aerospace, automotive, metal working, medical, healthcare, records management, tooling, distribution and government (GSA Contract).

REMSTAR

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Westbrook, ME 04092-2032

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info@remstar.com

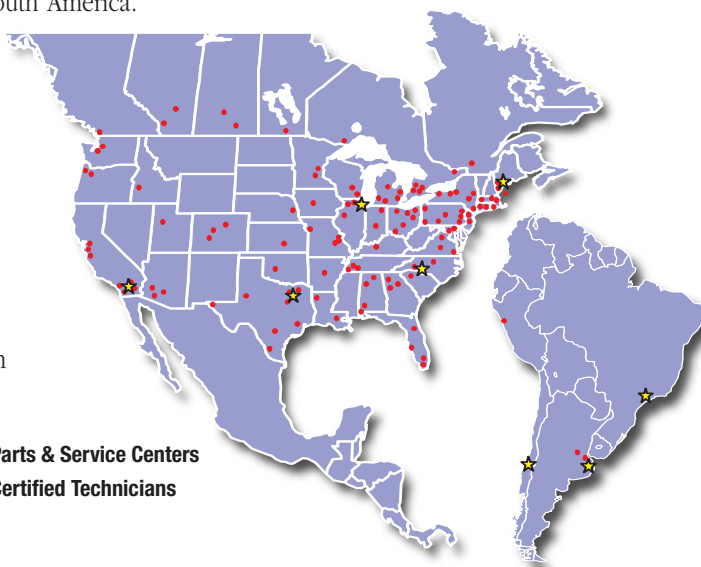
www.Remstar.com

Horizontal Carousels		Standard	Heavy Duty	Bottom Drive	Pallet	Dual Drive
Carrier Height	min max	6' 12'	6' 12'	6' 12'	Base 10'	6' 12'
Carrier Widths	min max	14.75" 38"	14.75" 36"	14.75" 36"	— 48"	14.75" 36"
Carrier Depth	min max	18" 24"	18" 24"	18" 24"	— 48"	18" 24"
Carrier Capacity	min max	600 lbs 1500 lbs	2500 lbs	600 lbs 1500 lbs	— 3000 lbs	600 lbs 1500 lbs
Carrier Quantity	min max	12 120	16 80	12 120	16 60	12 120
Shelf Spacing	std spacing max spacing min on center	3" 7" 2"	3" 7" 2"	3" 7" 2"	— — —	3" 7" 2"
Shelf Capacity	min max	75 lbs 200 lbs	75 lbs 600 lbs	75 lbs 200 lbs	— —	75 lbs 200 lbs
Rotation Speed	max	90 fpm	90 fpm	60 fpm	40 fpm	90 fpm
Carousel Length	max min	120' 15'	90' 20'	120' 20'	80' 30'	120' 15'
Controls A/C Freq. Inverter		Yes	Yes	Yes	Yes	Yes
Horsepower	min max	1 6	1 6	1 6	1 6	1 6
Refrigerated		Yes	Yes	Yes	Yes	Yes
Freezer-Capable		Yes	Yes	Yes	Yes	Yes
Scalable		Excellent	Excellent	Excellent	Excellent	Excellent
Affordable		Excellent	Good	Average	Excellent	Excellent
Ease of installation		Excellent	Excellent	Good	Excellent	Excellent
Serviceability		Excellent	Excellent	Excellent	Excellent	Excellent

Remstar Service Advantage

Remstar has the largest Factory Certified Service Team in the North American AS/RS industry, with over 380+ factory certified service technicians in North America and 60+ more throughout the world. Plus five strategically located parts and service centers in North America and three in South America.

No matter where you are, a factory trained and certified technician is only a phone call away. Remstar's service technicians are put through a rigorous hands-on training, testing & certification process. With this team, Remstar can assure your mission critical system will be able to perform to our high standards.



- ★ Parts & Service Centers
- Certified Technicians

Leasing Programs

All of Remstar's products and services can be rolled into a fast and convenient leasing package. Let a Remstar representative explain your options to help you meet your financial needs today.