



**AMT AIR CONVEYOR
BENEFITS- AMCOR
WYTHEVILLE**



AMT AIR CONVEYOR BENEFITS FOR AMCOR WYTHEVILLE

▪ Smooth, Controlled Bottle Flow:

AMT's patented two pressure damper-controlled air conveyor is the only system available where the air drive can be precisely controlled in every 10' section of conveyor. Precise air control is critical for creating smooth bottle flow which prevents jams and bottle damage. The AMT system is recipe based, every product run on the conveyor has a unique recipe with optimized air control.



▪ Engineered Plenums and Decks:

AMT's air conveyor plenums and decks are the largest in the industry, they are engineered this way utilizing fluid mechanics principles for smooth air flow and high efficiency. AMT systems create consistent air drive throughout the entire system. No other air conveyor systems have achieved the level of smooth internal flow as AMT systems. Turbulent air flow in competing systems results in dead spots along the conveyor where air pressure and drive is not consistent, this causes product dwell and jam opportunities reducing line efficiency.



AMT AIR CONVEYOR BENEFITS FOR AMCOR WYTHEVILLE

▪ Clean Design

The inside of AMT conveyor is free of hardware, its designed to stay clean inside and so it can be cleaned easily. The outside of AMT conveyor is clean as well, this provides ample space for add features like AMT's Dynamic Shoulder Rail and other features without creating clutter that's difficult to work around.

▪ Power Savings and Sustainability

Design benefits of AMT's Patented air conveyor system combined with ultra high efficiency backwards inclined airfoil impeller blowers offers the highest power efficiency. AMT systems use on average 1/3rd of the power of competing systems.

▪ Flexibility to Run Any Product

The patented Anysize positioning system offers complete line change over capabilities for neck, body, and accessory guides. The system Combined with AMT's recipe-based air drive control, every critical variable of product conveyance can be controlled. No other system is capable of this level of control, no other system is as simple, reliable, and effective.



INDUSTRY LEADER FOR SMOOTH BOTTLE FLOW

Sequencing Dampers

- True two pressure system
- Short control zones
- Easy to understand and maintain

Straight Neck Guides

- Aluminum Extrusion
- Industry leader for Stiffness, Straightness, and levelness

Engineered Air Flow

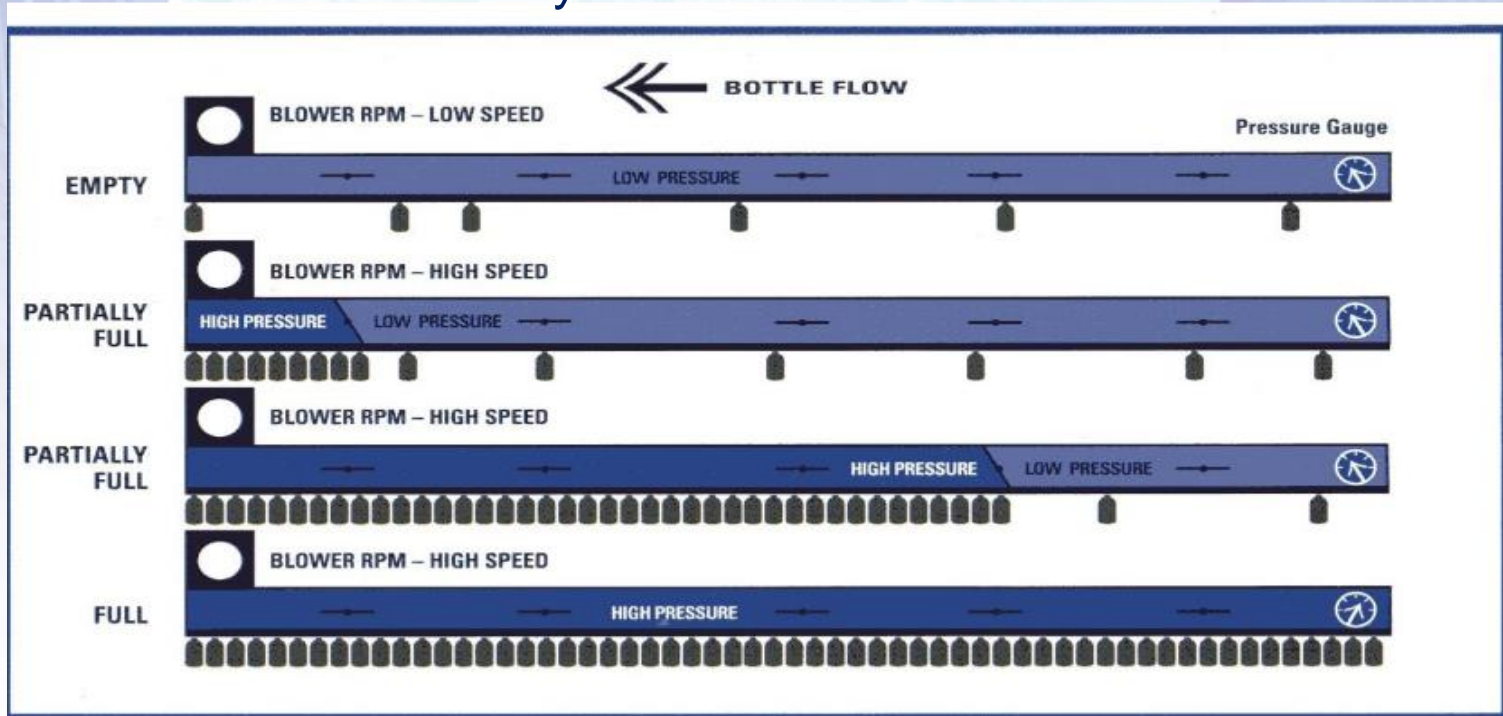
- Plenums engineered for smooth internal flow
- Size allows high efficiency 60' blower zones
- High efficiency engineered louver design for precise drive.



AMT neck guides are made from 0.25" thick extruded aluminum profile. Other systems utilize a 1/8" angle of flat bar which easily bends under normal use.

SEQUENCING DAMPERS

- Key to high speed handling of lightweight bottles-
- The only way to run heavy and light bottles on the same line efficiently



- The only true two pressure system design for handling all types of products
- Pressure control for each 10' section of conveyor
- Global Setting, accurately adjust entire system for environmental changes
- US Patent 6,000,884 and 6,309,144



CLEAN DESIGN

Clean Inside Plenum

- No low points to collect dirt
- Only penetrations are dampers and neck guide fasteners
- Louvers accessible for cleaning
- Brackets and other hardware attached with studs

Clean Outside Plenum

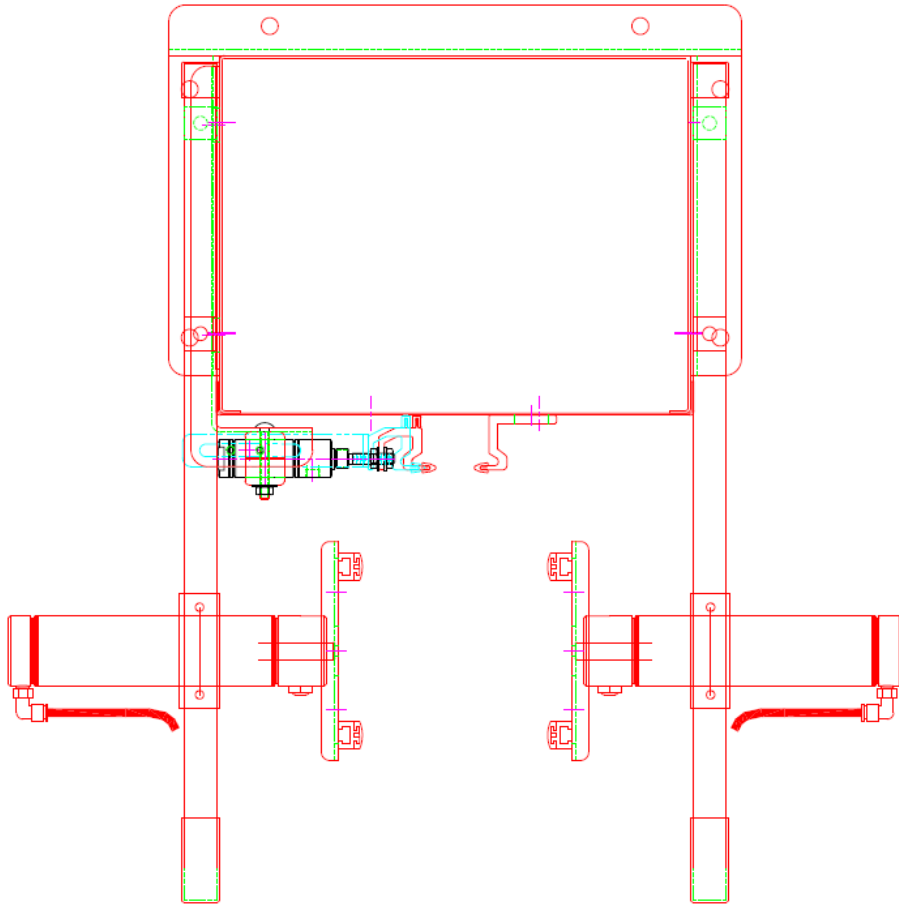
- Enclosed path for all air tubing
- 304 Stainless plenum and deck
- Grained flange matches plenum
- Structural plenums require half the supports (hangers or floor) – for more open access around the conveyors

True Industrial Grade Construction

- Large 10"x14" plenum design are strong enough to walk on top of.
- 16 ga. SST minimal sheet metal thickness
- Extruded Aluminum neck guides for superior guide straightness



CLEAN INSIDE, INDUSTRIAL QUALITY



- Plenum is free of hardware and internal structure
- Down brackets attach with external weld studs, no plenum penetrations
- High efficiency louver design is also easy to clean
- Stiffened Neck guides, stay straight and level for efficient bottle flow

- Competing systems utilize a top hat design, internal stiffeners, and plenum penetrating hardware as a result of using light duty sheet metal in the plenums. These designs collect dust and inhibit air flow.
- Many AMT Air conveyor systems have been relocated and reconfigured into new lines numerous times thanks to the quality of construction. Most of AMT's original lines are still running after 25 years.



SUSTAINABILITY

Power

- Plenum design, straight rails and sequencing dampers = 65% to 80% power savings
- .05 hp/ft

Maintenance

- Fewer filters to change = less maintenance
- One support every 20 feet = less cluttered install
- Neck guide design and custom material for smooth flow = up to 2 year neck guide life and ½ the filters

Noise

- Fewer dynamically balanced commercial blowers = quietest system on the market

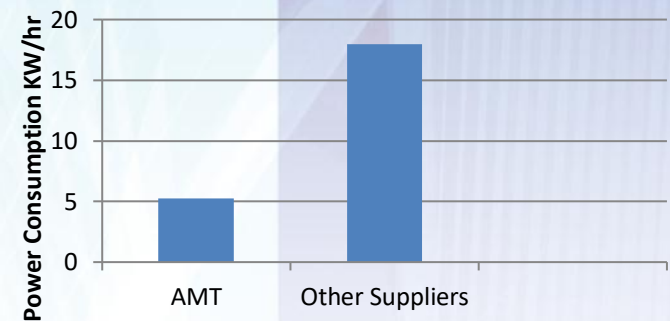


SUSTAINABILITY

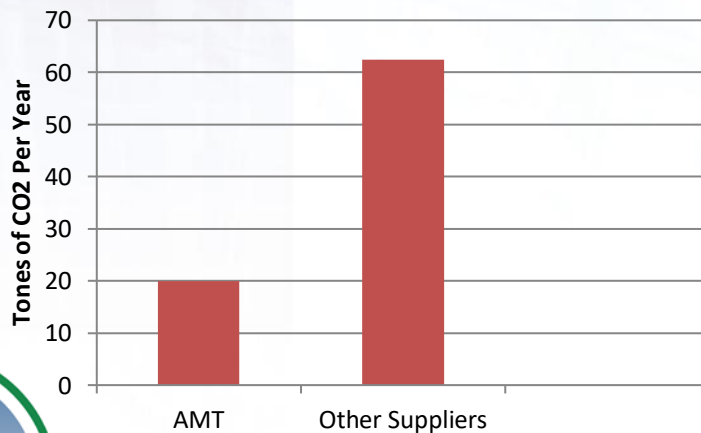
ENERGY SAVINGS

- AMT Neck Ring air conveyor is the most energy efficient air conveyor available, 0.05 hp/ft
- \$6,500- Average annual energy savings by replacing existing lines with new AMT Air Conveyor
- 84,000 lbs. – CO2 emissions savings

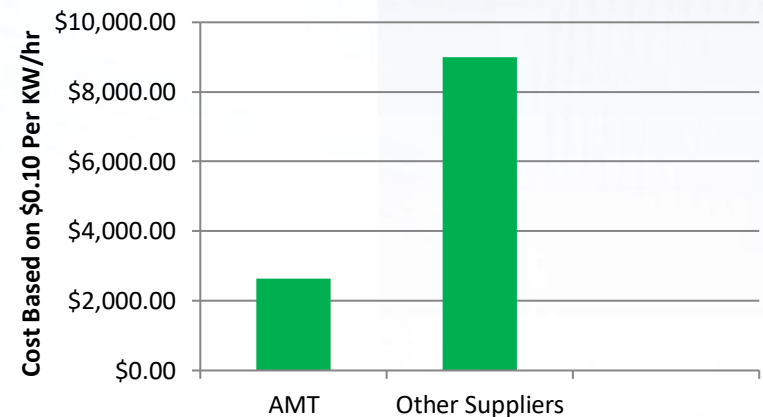
Power Required for an Average 400' Line



Annual CO2 Emissions



Annual Running Cost, 5000 hrs.



FLEXIBILITY

Anysize Side rails

- Automatic Side rail adjustment for any product size
- Easy to understand anyone can add and modify product size
- Accurate, true radius, automatic adjusting turns

Anysize Neck Guides

- Precise bearing guided turns
- Global adjustment from the HMI- ability to fine adjust for minute difference in neck finishes
- Dozens of systems installed, the largest install base of automatic neck systems

Anysize X-Y, Dynamic Rail

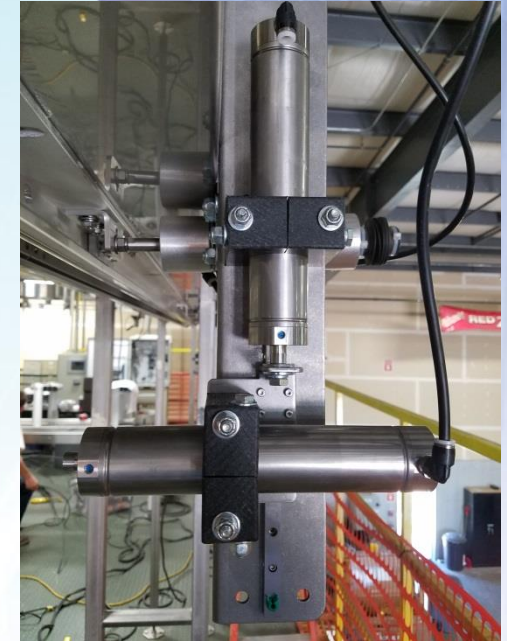
- Fully flexible lines are feasible with Anysize
- Specialty guide rails like the AMT's Patented Dynamic Rail and Heel Rail may be added with a full range of height and width adjustment
- Purchase with new conveyor or add on later

Recipe Based

- Individual bottle recipe includes Anysize setting and blower speed, high and low

So Simple

- Plant can add bottles
- Virtually zero maintenance
- Intuitive, minimal training is required to operate AMT systems effectively
- Automatically resets if motion is blocked, no need to reset the entire system



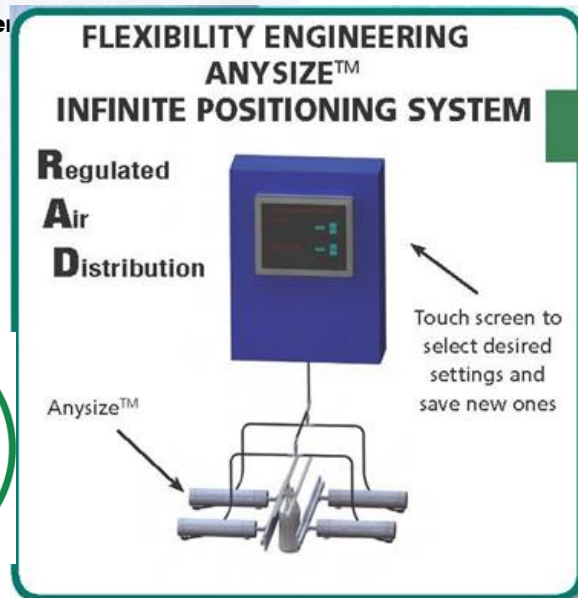
ANYSIZE SIDE RAILS

The Patented Anysize* System is a guide positioning system that will accommodate any size package...current or future

Benefits:

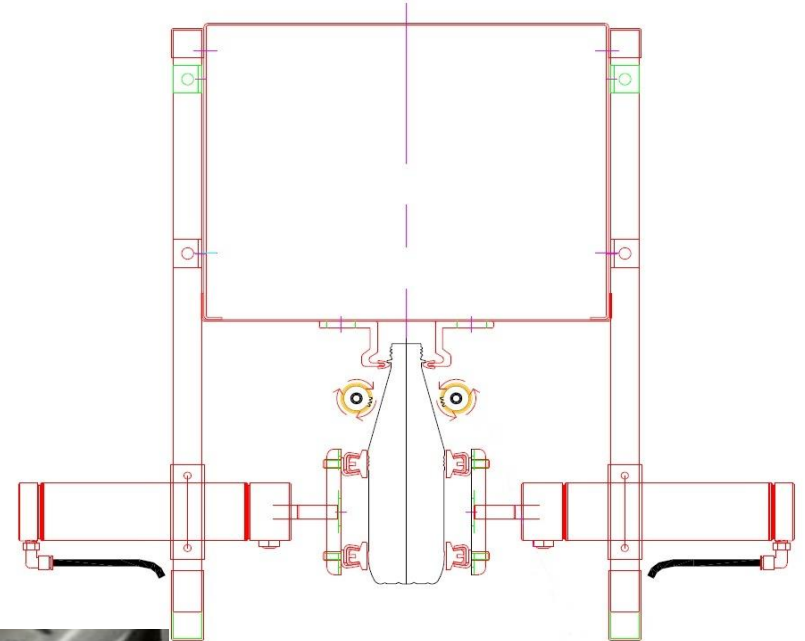
- Clean: A single positioner and a single air line ensure a clutter-free installation
- Maintenance Free: Only one moving part per positioner, simply drain water from the air reservoir annually.
- Accurate: Plus or minus 1mm
- User Friendly: To add a setting, just enter the dimensions on the touch screen and save
- Over 150,000 positioners sold with no returns
- Left and right side zoned independently for neck guide changes
- Controls automatically check for leaks and notifies operator where a leak is if found
- Control the entire line with a global setting, all guides move at the same time for fine adjustments
- Positioners will spring back into position if movement is temporally blocked by a product. Competing systems loose position and must be re-taught, they may also break.

*US Patent # 7,812,111 B2 and others.



DYNAMIC SHOULDER RAIL

- Most effective method to prevent neck jams on angle type bottles by limiting tilt angle.
- Rails roll so bottles cannot become wedged between the dynamic rails like they do with standard shoulder guides
- Bottles will not chatter like they do with top finish guides, there is also no chance of damage to the finish
- Anysize, two position or manual adjust



PATENTED US 9,884,733



DYNAMIC SHOULDER RAIL

Dynamic rail disengaged

Tilt angle = 47 degrees

Prone to heel jam and neck lock jams



Dynamic rail engaged

Tilt angle = 28 degrees

No jams



The shoulder angle on this bottle is too steep for a standard shoulder rail, bottles become wedged

Bottles cannot wedge in the dynamic rail

PATENTED US 9,884,733



CONTACTS

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