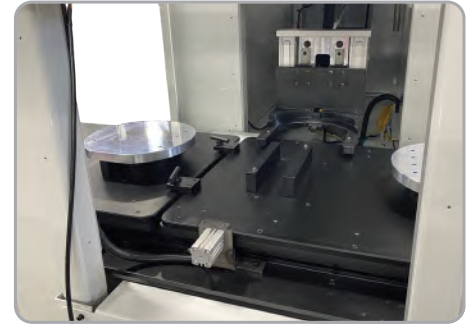




Automatic Pallet-Cart Changer for 5-Axis Machining Centers

Work NON-STOP on 5-Axis Machining Centers. The Automatic Pallet-Cart Changer allows for uninterrupted pallet transfer with MIDACO's train cart* system (*patent pending*). Each cart holds two (2) pallets and connects to additional carts allowing for continuous and uninterrupted part transfer in and out of the machine tool. The operator can load a train of carts* to run while they attend to other tasks or go "lights-out".



Shown on 5-Axis
Machine Tool



Shuttle System Includes:

- Automatic door retrofit to machining center
- One (1) cart with two (2) 15" (381mm) dia. pallets
- One (1) cast iron receiver
- CE Light Curtain

Additional carts* and pallets available separately.

Cart with 2 pallets

Automatic Door

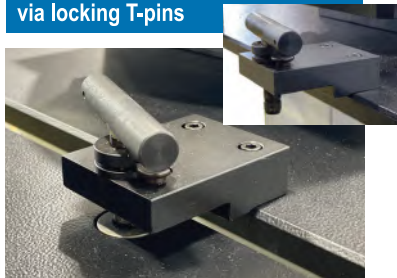
*number of connected carts will vary depending upon the weight of parts per load.

Automatic Pallet-Cart Changer

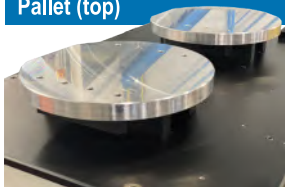
- Easily load and unload pallets onto carts without obstruction.
- Interlocked pallet carts are mobilized through the shuttle system on casters allowing the shuttle arm to continuously feed pallets into the 5-Axis machining center.
- Once a cart is pushed through the other side, the operator can easily load new pallets and change parts while the spindle is cutting.
- A completed pallet cart can be removed by unlocking the T-pins and rolled to a different location or to the opposite end of the train to keep production going.
- Depending on programming, after the full "pallet cart train" passes through the shuttle, the process repeats sending carts back in the opposite direction.



Individual carts are connected via locking T-pins



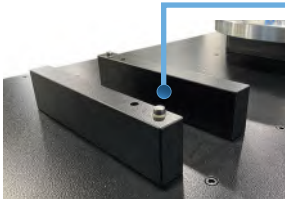
Cast Aluminum Pallet (top)



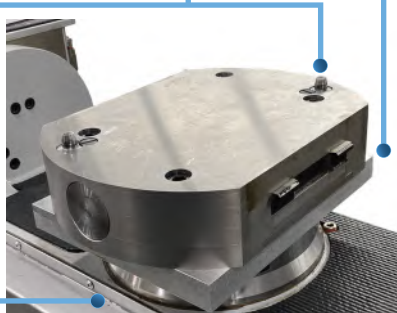
Pallet rails lock pallet to receiver



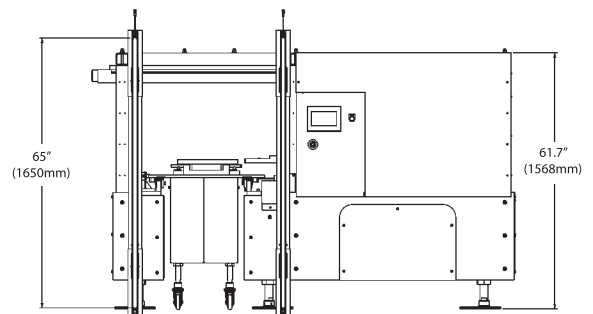
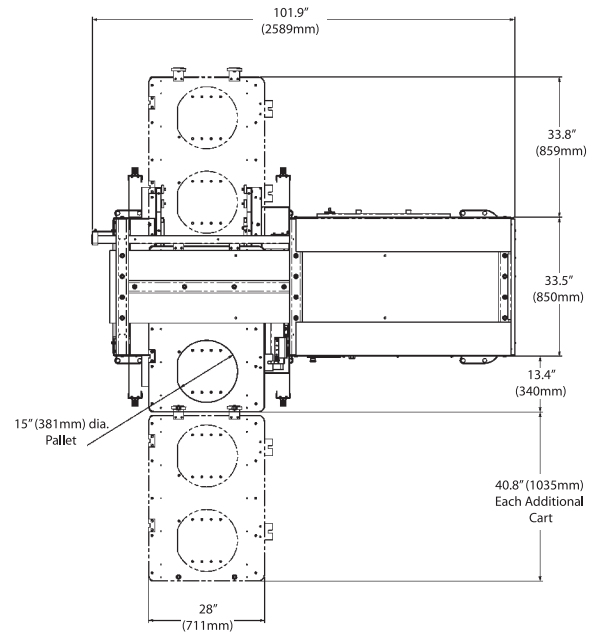
Hardened and ground pallet bushings with locating pins on cart and receiver assure +/- .0001" (.0025 mm) repeatability.



Cast iron receiver mounts directly to the machine table

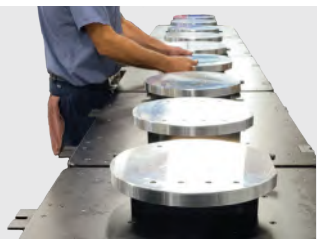


MIDACO pallet systems are designed for machines with stationary guarding. Some machines require options or customization. Patent pending. Contact your sales representative to confirm model and specifications for all applications. Machinery subject to modifications and amendments.



Specifications:

- 15" (381mm) dia. cast aluminum pallets
- 150 lb (68kg) capacity per pallet
- Cast iron receiver does not require air
- +/- .0001" (.0025 mm) repeatability
- PLC is fully integrated with the machine



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