

Tekno Automatic Storage and Retrieval System (ASRS)

Key Benefits & Features:

- 2,000 lbs capacity
- Freestanding Crane
- Horizontal maximum speed = 800 fpm
- Vertical maximum speed = 400 fpm
- Spatula maximum speed = 200 fpm
- Up to 180 jobs per hour
- Absolute encoders
- Timing belt drive system allows quick acceleration and deceleration without slippage
- Onboard PLC & Controls
- Man on board capability or fully automatic
- Dual direction spatula
- Allen Bradley Powerflex VFD, 755 series



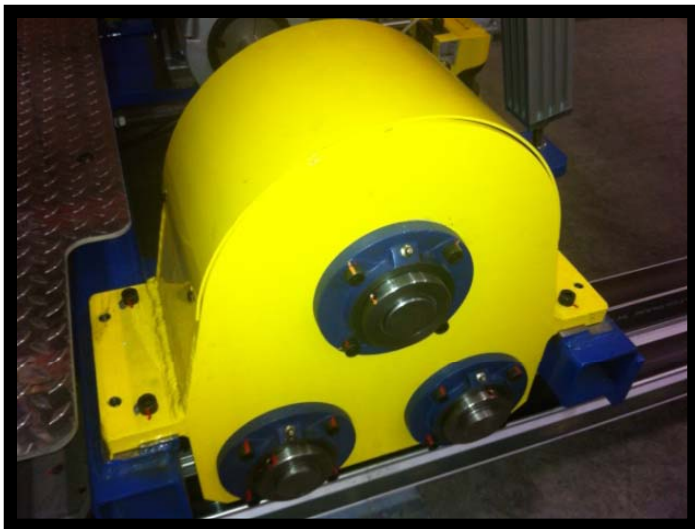
**One Wall Street
Cave City, KY 42127**



Tekno Horizontal Drive Systems (ASRS)

Key Benefits & Features:

- 20 Horsepower gear motor supercharged to generate 40 hp capability
- (2) 35MM wide Carbon fiber belts w/Kevlar
- Heavy duty sealed bearings
- Rigid chain couplers
- Load monitoring sensors



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Tekno Vertical Drive Systems (ASRS)

Key Benefits & Features:

- 20 Horsepower gear motor supercharged to generate 40 hp capability
- (4) Heavy Duty High Speed 80 Pitch Lifting Chain
- Heavy duty sealed bearings
- Rigid chain couplers
- Load monitoring sensors
- Vertical Safety Locks

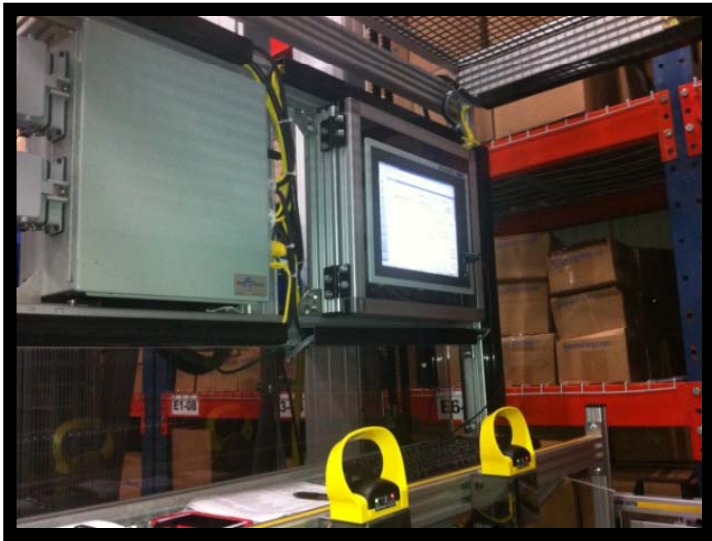


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Tekno Man-on-Board (ASRS)

Key Benefits & Features:

- Quick change-over from man-on-board to automatic operation
- Man-on-board safety sensor keeps spatula from operating and limits speed for safe operation
- Two hand safety controls w/foot pedal for operator safety
- Integrated Versa-view screens for both PC and PLC control



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Automated Spatula (ASRS)

Key Benefits & Features:

- Quick change-over from man-on-board to automatic operation
- 84" full stroke travel in both directions
- Build in guide rails for pallet/product guidance
- Heavy duty cam rollers running on hardened steel rails
- Rack and pinion design for extra travel and speed
- VFD and encoder controlled positioning



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Articulating Forks (ASRS)

Key Benefits & Features:

- Forks allow use of standard wood or plastic pallets, steel racks, totes... Anything a forklift can pick!
- Articulating design allows servicing both sides of the aisle way.
- 4,000 Lb Capacity heavy duty forks on Heavy Duty Linear Rails and Bearings
- Gear motor with brake for extension and retraction of forks.
- Gear motor with brake for 180 degree rotation within the frame.



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Typical Controls (ASRS)

Key Benefits & Features:

- Easy to configure ethernet controls
- Allen Bradley power flex 755 drives w/safe speed module & universal feedback
- Absolute encoders
- Safety scanners w/audible warning to detect obstacles in the ASRS path
- Multiple modes of operation, manual, semi-automatic and automatic
- Wireless communication



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