



## Automatic Guided Vehicle System Transports Newspaper Print Reels

### Features and Benefits

Less Paper Damage Due to Reduction in Manual Handling

Reduced Labor Costs

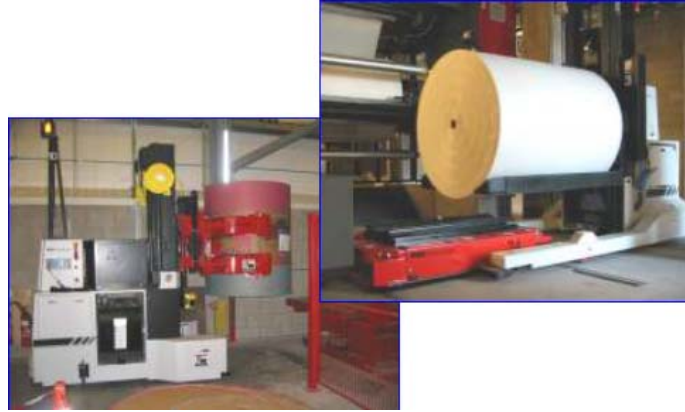
Increased Safety

Improved Production Efficiency

Greater Inventory control

Reels Tracked from Warehouse to Reelstand

**Industry Group:** Automatic Guided Vehicle Systems (AGVS)



*A fleet of 20 laser guided vehicles makes up a large component of the automated reel handling system at the Newspaper facility.*

A system of three (3) automatic guided clamp vehicles (AGVs) picks up reels from the receiving area and delivers to storage. When the facility signals a new press run, the clamp vehicles automatically pick up reels from the storage area and deliver vertically to the reel tipper unit. The reel tipper unit rotates the reel 90 degrees to the horizontal position.

The reel tipper unit then deposits the reel onto the conveyor so that it can move to the reel stripping station. The outer wrapping is manually removed along with the end caps. The conveyor moves the reels to an area where they are picked up by a forklift-guided vehicle. When notified by the AGV manager server host computer, the forklift-guided vehicle delivers the reels to the rack "laydown" storage. When signaled, the forklift-guided vehicle picks up a reel from storage and delivers to one of the 12 automatic press loaders, or APLs. The APL's job is to automatically transport the reel to the press spider arm and place it on the reelstand. The APL ensures that the core is inline with the chucks, and the chucks are fully engaged into the reel before departing.

After the reel is consumed, core removal robots grab the core and place it in the core bin. Operators request removal of the core bins when full. In addition, the AGV system communicates with the

compacter to empty the waste bin automatically and have the forklift-guided vehicle return an empty core or waste bin to its original location.

Using AGVs for print reel transport and delivery increases productivity and reduces product damage, while contributing to a safe environment at the newspaper facility.



**JBT Corporation (formerly FMC Technologies)**

400 Highpoint Drive

Chalfont, PA 18914

Phone: 215-822-4600

[mark.longacre@jbt.com](mailto:mark.longacre@jbt.com)

[www.jbt-agv.com](http://www.jbt-agv.com)