

Industry 4.0

fixed infrastructure such as tape, RFID tags or barcodes, which can impact on reliability. The AGV navigation we are using can tolerate a fair amount of change in the environment. So, for example, forklifts or heavy foot traffic can walk around the AGV quite comfortably. If you have a distribution scenario, where you have got pallets moving around and changing position, and you have got unpredictable objects in the path, we can navigate around that with technology we are using." MasterMover works with each customer environment to support a full safety risk assessment.

Using the AGV for line side delivery also offers the prospect of working in tandem with the MasterMover PS AGV. With a load capacity of up to 30,000 kg, the PS AGV can be used for pulsed production line automation as an alternative to a conveyor. Using the AGVs together offers a complete alternative to conventional, fixed linear production, says Evans. "Compared to a conveyor system,

the cost is reduced significantly, and the production flexibility is increased substantially. At the same time, redeploying operators from non-value-added work, and increasing the weight each AGV can pull, means you can expect good returns on investment.

"That said, for most people it's about starting the ball rolling. So, our customers can work with us to upgrade just one key process to begin with. Because they are making the least number of changes to the facility, it's very scalable."

Now fully developed and available, the MasterMover AGV 300 Tow can carry loads up to 3,000kg. It is ideal for towing kitting trollies for lineside deliveries, enabling movements of loads to be automated without the need for expensive fixed infrastructure. MasterMover's AGV model

offers customers the opportunity to start with a sole, entry-level AGV with on-board intelligence, right up to a centralised fleet management solution for multiple AGVs managed centrally over WiFi. Evans concludes: "We have perfected our first AGV design and now have a clear roadmap of where we are going with future vehicles to complement our entire product range."

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KELLER

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D Line pressure transmitters

- I²C interface up to cable lengths of 5 m
- 1,8...3,6 V (optimised for button cells)
- 20 µW at 1 S/s and 1,8 V
- Total error band ± 0,7 %FS at -10...80 °C



X Line pressure transmitters

- RS485 interface up to cable lengths of 1,4 km
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