

The LT40 Transfer System Enabling Success for Brembo

References

«Small footprint, various processing phases and an attractive design – the demands for our demo line for the Polytechnic University in Milan were high, and the requirements were difficult to meet. In Montech we found a partner who offered us a solution customized to our needs in the form of the LT40 plus service in a class of its own; the transfer system was pre-assembled, tested and delivered very rapidly. The results are impressive along the entire line.»

- Project manager: Jacopo Mora of Metalwork Service

The challenge

Brembo is a global leader in the design, development and production of brake systems and components for cars, motorcycles and industrial vehicles for the original equipment sector, as replacement parts and for racing. The Italian company has set up a demo line for the Polytechnic University in Milan in order to illustrate for future engineers the procedures in the processing phases. The specifications were complicated: They wanted a complete line with four processing steps, centering procedures and flexible layout in the smallest possible space. Although clean, attractive design was also required for the line as it was meant for display purposes.

The solution

Montech's LT40 transfer system met Brembo's requirements: From an operational perspective, it is able to handle the transport of small items in the various processing stages. From a structural perspective, it is very compact – thanks to the integrated motor – and ideally suited for use in confined or delimited spaces. The LT40 also features an attractively clear and streamlined design. For Brembo's demo line, the standard pallets of the LT40 were redesigned by incorporating three stoppers in each of the four processing stations. This meant that the pallets could be stopped and shifted at each step. This makes it possible to carry out the same procedure on three different parts even when they are positioned on a single pallet. In other words, the processing steps at each station are carried out on multiple parts.

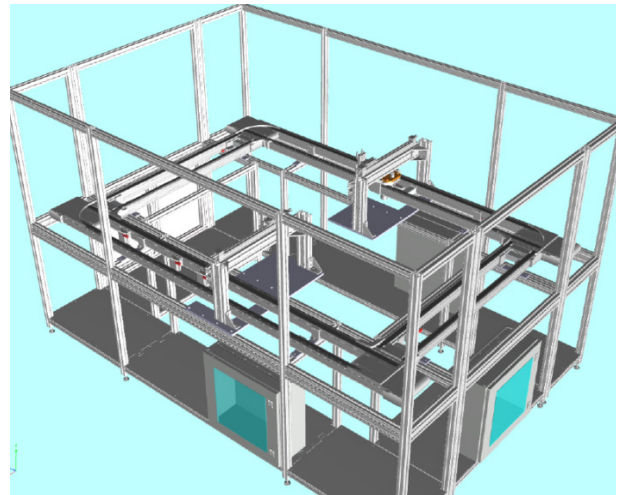
The benefits for Brembo

- Optimal use of space: The integrated motor permits a compact design.
- Customer-specific solution: The pallets and centering devices were re-engineered so that complex operations could be handled at the workpiece processing stations.
- Flexible parameter management: The integrated brushless 24V motors allow changes of speed and direction using digital and/or analog signals.
- Attractive design: The sharp, lean lines make a strong visual impression.
- Service advantage: The line was pre-assembled, tested and delivered as requested by the customer – all in a short time.

Specifications

LT40	
Workpiece carrier size	7.87" x 7.87", 7.87" x 9.44", 9.44" x 9.44", 9.44" x 12.59", 12.59" x 12.59", 12.59" x 18.89"
Drive	End drive
Maximum load	7.87" x 7.87": 15.43 lb, 7.87" x 9.44": 18.51 lb, 9.44" x 9.44": 18.51 lb, 9.44" x 12.59": 24.69 lb, 12.59" x 12.59": 24.69 lb, 12.59" x 18.89": 37.03 lb
Positioning unit pressing force	1000 N
Placing unit	60'000 N

Application impressions



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