




the first carriage station. There, it feeds an all-round circular line, to which all the carriages are fixed. Each carriage can be addressed individually using modern electronics and bus technology. It receives the respective signals to enable it to work as required, for example through a pneumatic valve, electric motor or sensors. Each carriage can be triggered individually and can perform its tasks immediately at a pre-defined position.

Alongside the innovative central construction, transport, pick-and-place and other handling systems can now also be delivered in a slim package. Often, very large masses need to be moved at high accelerations in order to meet the required cycle times. "Accordingly, engineers tend to over design the systems to enable them to

absorb the dynamic forces that result from backward and forward motion. With the Igus C-Chain system, on the other hand, space and energy can be saved thus supporting the trend towards smaller, more efficient machines," adds Leonard.

"The Igus C-Chain system provides sufficient filling space for a servo/motor cable, a control, bus or fibre optic cable, and protects and routes fluid hoses too," says Leonard. "All the necessary cables and hoses for load, data and media are housed in the compactly designed guide system." The Igus C-Chain system can be used in different installation positions, and is delivered as a complete customised module by Igus for easy integration into the machine, conveyor belt or production system.  [www.igus.co.uk](http://www.igus.co.uk)




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# McLennan

## motion and mechatronics



■ *brushless DC motors*



■ *brushed DC motors*



■ *ac & dc servo motors*



■ *synchronous motors*



■ *stepper motors*



■ *spur gearboxes*



■ *planetary gearboxes*



■ *rotary encoders*





■ *linear encoders*


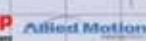



■ *stepper and servo drives*

■ *motion controls*

■ *custom engineered motion and mechatronic systems*

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