

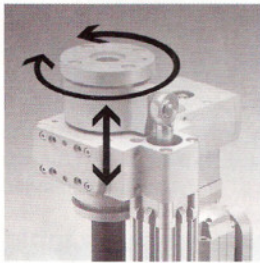
## A flexible way to provide movement

A compact integrated motion control subsystem has been launched by Festo for automation applications. This, explains the company, provides machine builders with a flexible means of providing programmable rotary and linear movement.

The EHMB module, which is suitable for parts handling and positioning applications, has a decoupled design that enables the rotary and lifting movements to be controlled completely independently.

According to the company, the subsystem is capable of performing similar types of loading and unloading movements as many industrial SCARA robots, and it is possible to tailor the price/performance of the motion subsystem by choosing to use a motor and electrical actuator for the two axes, or a motor and pneumatic cylinder.

There are two types of EHMB modules. The smaller size 20 model can accommodate payloads of up to 3kg, generate over 3Nm of torque and handle moments of inertia as high as 30kg/cm/cm. It is suitable for providing the integral Z movement in portal and Cartesian parts handling systems. The size 25 model is more suited to stationary use, such as in loading, unloading and stacking applications. This can accommodate payloads as high as 5kg, it can generate 8.8Nm of torque and handle moments of inertia of up to 100kg/cm/cm. Both modules



offer a choice of 100mm and 200mm stroke lengths, and are capable of generating up to 480N of lifting force. Depending on the choice of motors and cylinder, both models can handle linear speeds as high as 500mm/s with  $\pm 0.1$ mm repeatability, and rotational speeds of up to 300rpm with a repeatability of  $\pm 0.05^\circ$ .

**Festo** Enter 210  
T: 01252 775000 www.festo.com

## Machine monitoring

Wireless-enabled stacking beacons are now available from IDC. Manufactured by DG Controls (Deege), these use IDC's ZB100 system-on-a-chip, allowing central monitoring of all machine types.

The ZB100 OEM module offers links for two operating modes, one that enables the state of the beacon lamps to be monitored over the network to wireless Gateway, which is connected to a central PC using standard Ethernet or USB connection. This is intended for machinery control systems using existing signal towers installed by conventional cabling. By installing a wireless module to each beacon stack, they can report the state of each lamp over the wireless network to immediately notify of problems. In addition to machine status, IDC's PC software can also provide real time analysis of the plant.

The second mode enables the lamp stack to be controlled over the wireless network, eliminating the requirement for hard wiring from the machine controller.

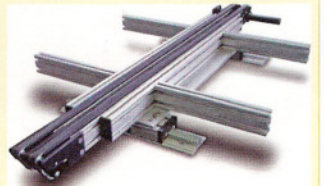
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www.zig-bee.co.uk T: 01332 604030

## Constructing frames and guards

New to Transmission Developments' product portfolio are extruded aluminium profile rails and accessories for machine frame and safety guard construction from Paletti Profilsysteme.

The product line is offered as a fully supported range for OEMs and machine builders as a flexible and modular solution for belt conveyor frames, protection enclosures and other machine building applications. Paletti Profilsysteme's aluminium profiles and accessories are used across standard and customised support structure applications, ranging from aircraft test stands to audio/visual displays and from machine tool enclosures to research laboratory benches. A range of accessories are also available, including fastener systems.

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