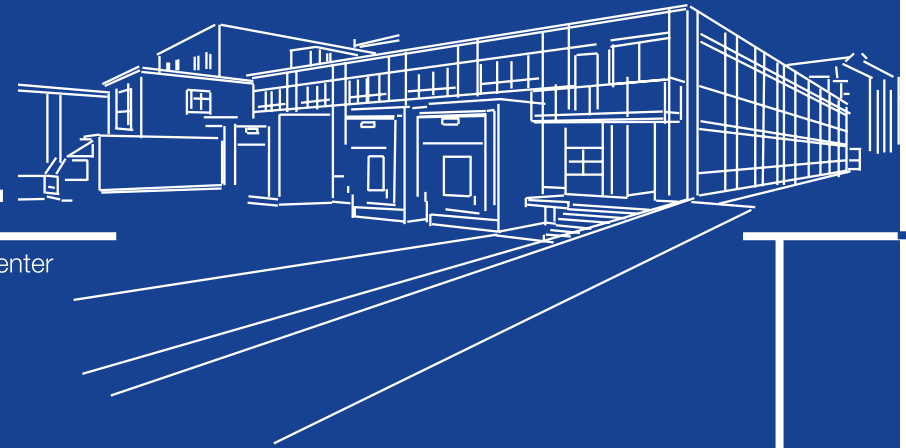


Our drive. Your success.



Logistic Center



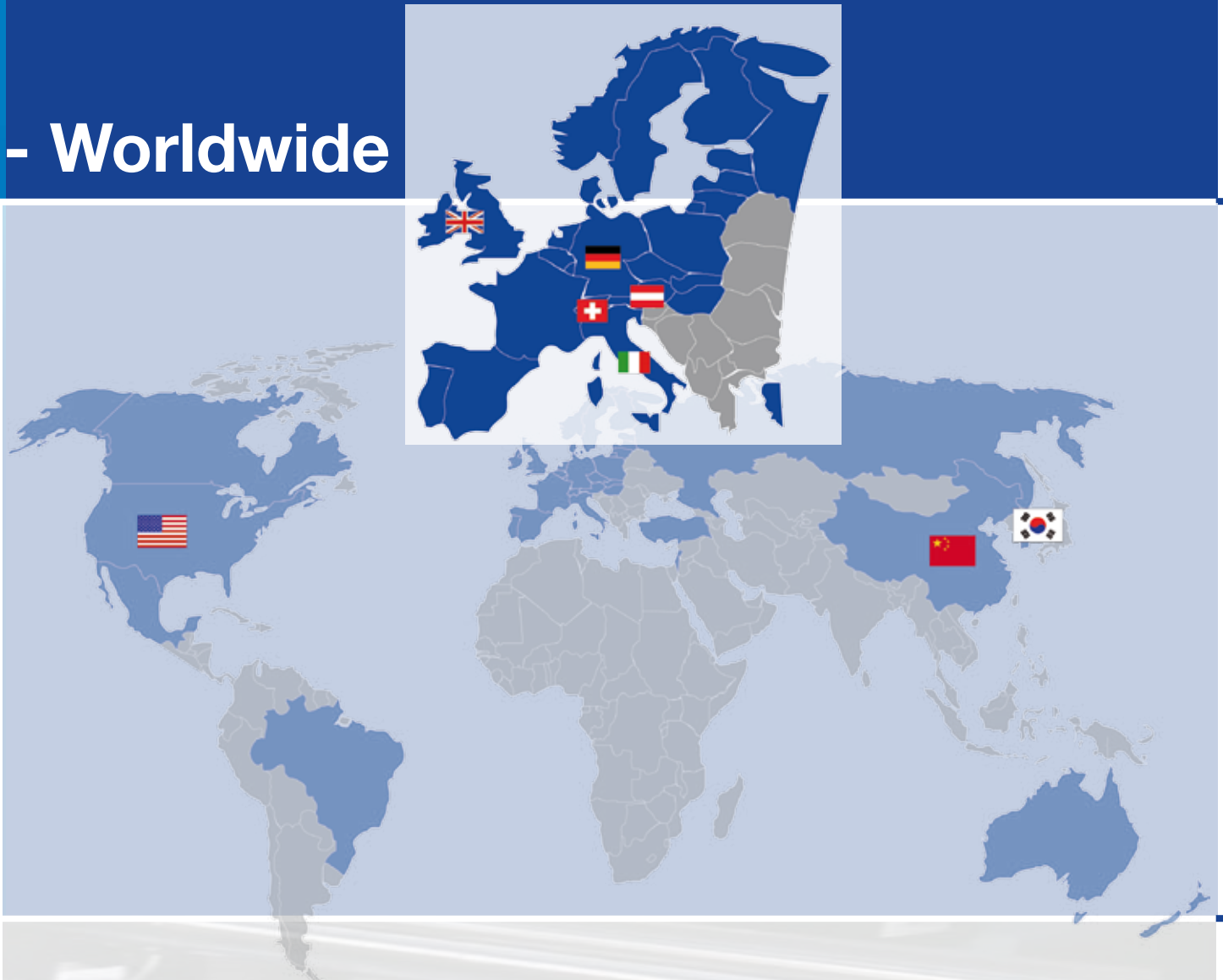
Headquarters

... for more Efficiency in the Packaging Industry









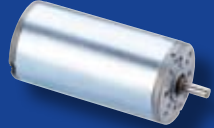

Dunkermotoren is a customer-oriented, innovative, quality- and environmentally conscious company. Our strength is the realisation of complete drive solutions. Based on our sophisticated modular system and the extensive range of standardised components, we are in the position to configure and manufacture customised solutions at short notice.

Dunkermotoren - Worldwide

- Headquarters in Bonndorf, Germany
- Production facility and logistic center in Taicang, China
- Logistic center in Hingham/ MA, USA
- Representatives worldwide
- Dunkermotoren offices in D, CH, AT, GB, IT, Korea, USA, China

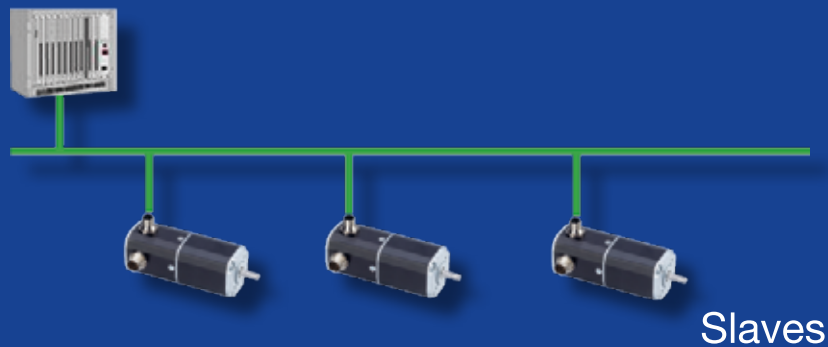


Dunkermotoren - Modular System

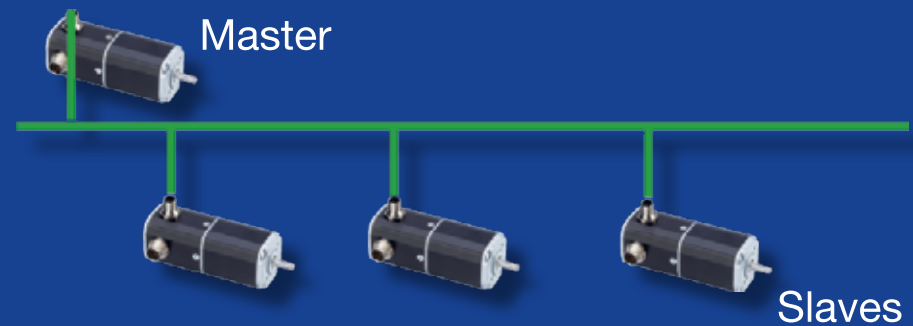
CANopen/ Profinet IRT Profibus DP	Bus interfaces (integrated): CANopen / Profinet IRT / Profibus DP					
<p>External controllers 2 - 20 A</p> 	<p>Power-off brakes 0,2 - 3 Nm</p> 	<p>Incremental encoders - up to 4096 pulses per revolution - already integrated in motor · BG45 / BG65 / BG75</p> 	<p>KI - Commutation electronics integrated</p> <hr/> <p>SI - Speed controller integrated</p> 	<p>Brushless DC-Motors 6 - 500 Watt</p> 	<p>Planetary gearboxes 0,2 - 160 Nm</p> 	
	<p>Power-on brakes 0,2 - 3 Nm</p> 	<p>Magnetic pulse generators - up to 4 pulses per revolution</p> 	<p>PI - Parameter software inclusive</p>	<p>Permanent Magnet DC-Motors 3 - 240 Watt</p> 	<p>Worm gearboxes 0,75 - 30 Nm</p> 	
CONTROLLER EXT.	BRAKES	ENCODER	CONTROLLER INTEGR.	MOTOR	GEARBOXES	

Integrated Electronics Functionalities

Slave in a Network



Stand-alone Network



The electronics functionalities offer a wide range of possibilities starting with a simple speed control electronics up to a freely-programmable servo-controller with bus interface

Industry Automation - Packaging Machinery

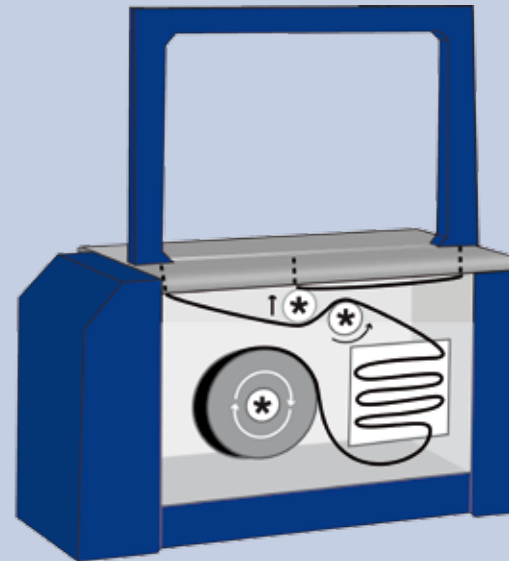
With intelligent solutions from our modular system, we offer tailored systems for your particular needs. Due to the centralised intelligence, high programming efforts can be reduced to a minimum.

The use of drive solutions from Dunkermotoren offers, besides the significant potential savings, also a substantial reduction of space in the machine and in the cabinet. Flexible mechanical interfaces and application-specific adaptations of the software offer a cost optimised automation solution for your machine.



Application - Strapping Machine

Flexible and fast strapping of packages. The automation is performed by a minimum of three drives with integrated logics and power controller. The first ensures fast and precise crawling of the belt from the coil bobbin. The second drive leads the belt across the the clamping device. One further drive tensions the belt at the welding area with sufficient pre-load to ensure safe welding of the belt.



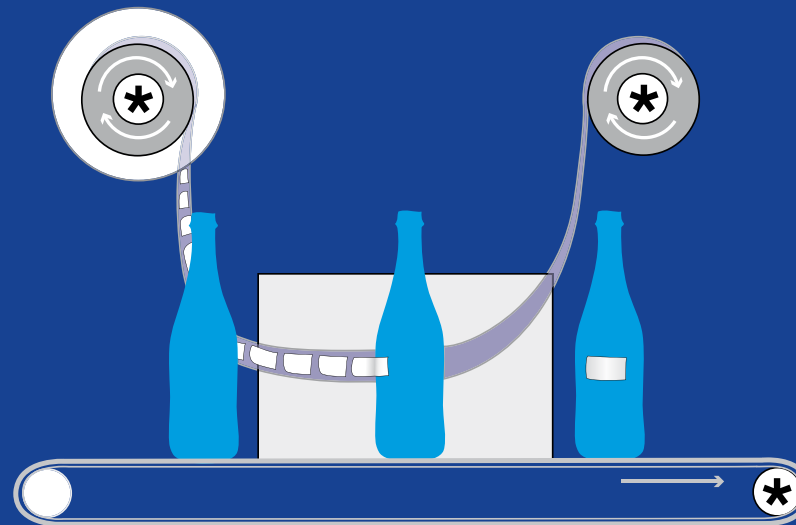
* Drive GR63 / BG 65 SI

Using compact drives from Dunkermotoren offers a lot of advantages:

- significant reduction of installation costs
- elimination of PLC cycle times
- lower cycle times by controlled positioning mode
- reduction of machine / cabinet space

Application - Labelling

Fast and precise label positioning. The drive system consists of two drives that wind and unwind the label belt, plus a third drive that moves the the conveyer belt. Key requirement in this application is the synchronous movement of the bottles that are on the moving conveyer belt and of the label belt during the labeling process. To meet this requirement, a sensor signal that provides the bottle conveyor belt speed is read. By synchronising the label belt to the bottle conveyor belt speed, considering the current winding- and unwinding coil diameters, the labels are stuck to the bottles precisely.



Using compact drives from Dunkermotoren will offer you:

- significant reduction of installation costs
- possibility to read in a sensor signal directly at the drive unit
- synchronisation of the drives without higher-level controller
- a constant sequence through eliminating the PLC cycle times

Dunkermotoren - Our drive. Your success.

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