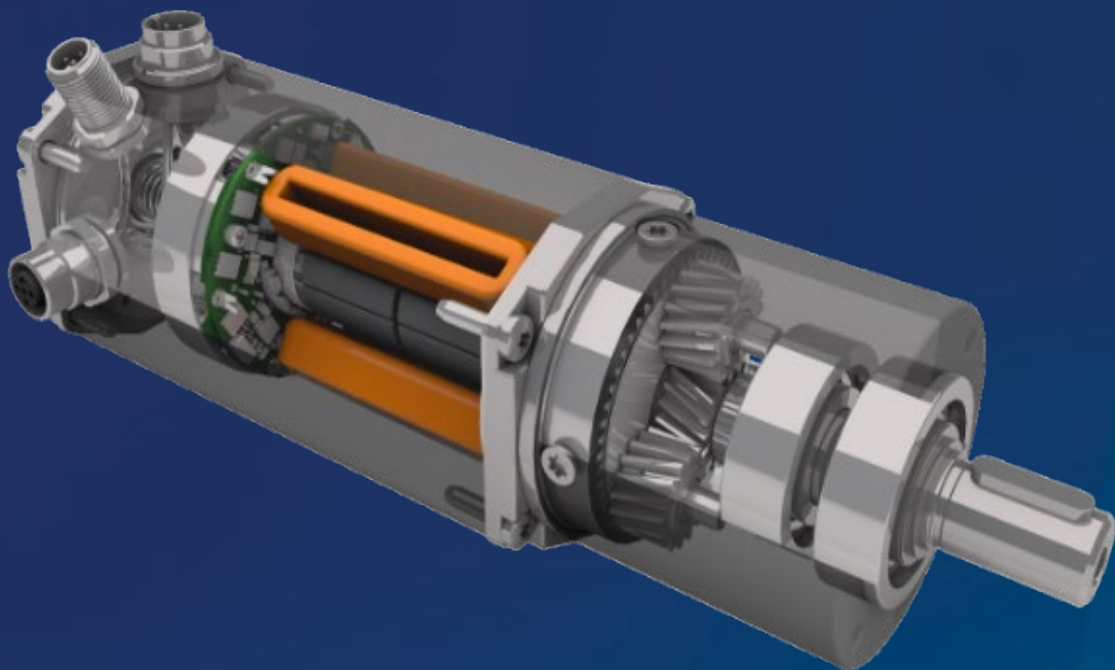


Motor Control Platform:

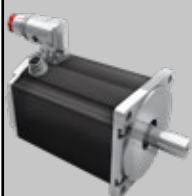
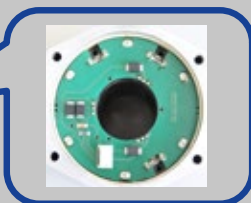
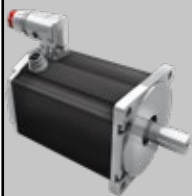

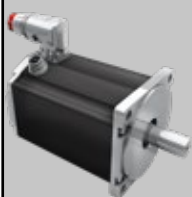

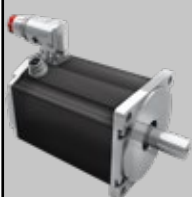

What replaces what?
New categories for brushless
DC motors




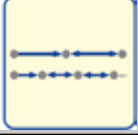




Michael Burgert | Product Manager BLDC Motors
Dunkermotoren GmbH







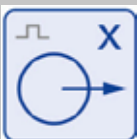





New categories for brushless DC motors:

More than 20 years of experience with integrated motors have gone into the development of a completely new Motor Control Platform (MCP). Products with MCP electronics are state of the art and are equipped with interfaces for every conceivable future technology. Customers of the previous technology will continue to receive these for a transitional period. Customers will very quickly switch to the new generation of integrated motors, primarily because of the additional functions and the more attractive prices. In order to make the changeover easier, some features of the previous and the new generation are shown here.

	<i>dCore</i>	 	Motors only with hall sensors, optionally with high-resolution encoder Replaces BG Hall motors
	<i>dGo</i>	 	Integrated commutation electronics, no speed control Replaces KI motors
MCP	<i>dMove</i>	 	Speed and position control, simple commutation without high-resolution encoder, cost-optimized
	<i>dPro</i>	 	Speed and position control, interpolation, vector control, high-end applications, Ethernet based communication, freely programmable

What replaces what? - MCP Motors

How would you like to control the motor?	Up to now:	New:
Speed control via digital and analog inputs (stand-alone operation)		SI <i>dMove</i> IO
Positioning via digital inputs (stand-alone operation)		PI <i>dMove</i> IO (up to 30 ppr) <i>dPro</i> IO (up to 4096 ppr)
CANopen (Quickstart or CiA 402), current, speed, position		CI <i>dMove</i> CO (up to 30 ppr) <i>dPro</i> CO (up to 4096 ppr)
Programmable like a PLC in "C" and stand-alone operation		MI <i>dMove</i> CO (up to 30 ppr) <i>dPro</i> CO (up to 4096 ppr)
PROFINET, Quickstart or PROFIDRIVE, application classes 1+4		PN <i>dPro</i> PN
EtherCAT, CANopen over EtherCAT (CoE), distributed Clocks		EC <i>dPro</i> EC

Main <i>dMove</i> + <i>dPro</i> functions*	Main <i>dPro</i> functions*
Ballast circuit 	Field oriented control (FOC) 
Brake output / Brake management 	Jerk optimized ramps 
Configurable digital inputs 	Interpolation mode 
Configurable digital outputs 	Galvanically isolated bus 
Analogue input 	Safe Torque Off (STO) 
IO mode (stand-alone mode) 	SSI interface / absolute encoder 

*On request for several motor types

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