

DSC2 MOTORS

Extremely compact and powerful –
the new DSC2 motor generation in six lengths

The DSC2 motors cover a speed range from 1,000 to 5,000 rpm.
Compared to other servo motors, they are up to 15 percent more compact.

DSC2 045-100

Compact Servo Motors

The DSC2 motors cover a speed range from 1,000 to 5,000 rpm. Compared to conventional servo motors, they are up to 15 percent more compact. A wide variety of cooling options, connections, gears, brakes and encoders create application-specific and flexible motor solutions. The low dead weight and minimal dimensions make the DSC2 a good solution for moving axes. The minimal cogging torque ensures precise positioning and high control quality. The advantage: precision in the process is increased. The motor also has a low CO₂ footprint due to the reduced use of materials.

- ✓ Cooling options: uncooled, air-cooled, water-cooled
- ✓ Encoders: Resolver, Hiperface DSL, Hiperface, EnDat 2.2
- ✓ Optionally with brake
- ✓ Single cable technology



**INCREASED
POWER DENSITY**



**HIGHEST
PRECISION**



**INCREASED
DYNAMICS**



**HIGH
ENERGY EFFICIENCY**



**HIGH
SCALABILITY**

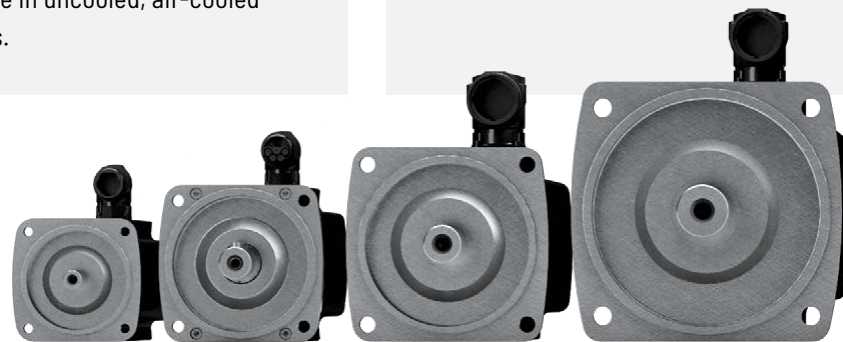
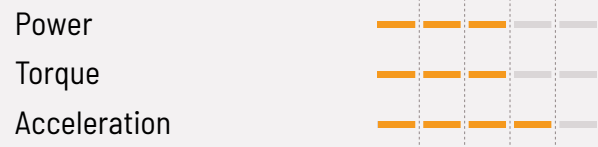
- ✓ Permanent magnet synchronous servo motors
- ✓ Compact type of construction with high power density
- ✓ Degree of protection up to IP 65 regardless of the cooling method
- ✓ Main connection via rotatable plug or terminal box
- ✓ Single cable technology available
- ✓ Very good concentricity properties
- ✓ Smooth housing surface - not susceptible to dirt
- ✓ Slim, integrated housing design
- ✓ High overload capability
- ✓ Encoder options:
Resolver, Hiperface DSL, Hiperface, EnDAT 2.2
- ✓ All types optionally with brake

Cooling methods



The DSC2 range is available in uncooled, air-cooled and water-cooled versions.

Spectrum



Excellent combination of overall length and flexibility with maximum torque density at the same time. Energy efficiency is about 94 percent.

DSC2 045-100 – Technical data

Type	P_N		n_N	J		M_0		$M_{0\text{MAX}}$	
	[kW]	[hp]		[kgcm ²]	[lb in ²]	[Nm]	[lbf ft]	[Nm]	[lbf ft]
DSC2-045 *	*	*	*	*	*	*	*	*	*
DSC2-056 *	*	*	*	*	*	*	*	*	*
DSC2-071	1.21 – 36	1.62 – 48	1000 – 5000	9.5 – 48.9	3.2 – 16.7	12.6 – 120	9.3 – 88.5	25 – 170	18.4 – 125
DSC2-100 *	*	*	*	*	*	*	*	*	*

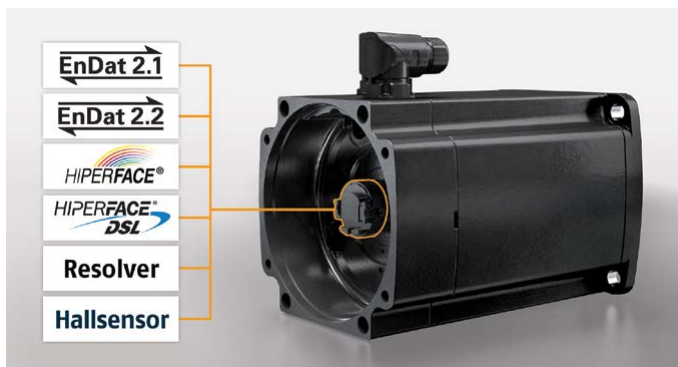
The values specified are maximum values.
For details, please refer to the technical documentation.
*) in preparation

Cooling options

The DSC2 range is available in uncooled, air-cooled and water-cooled versions. The most compact variant of the DSC2 is made possible by the water cooling concept.

The active cooling increases the power density. In addition, close installation of several servo motors is possible without any problems due to the good heat dissipation. This saves space in the machine and is a plus point especially for applications with many axes.

Power density

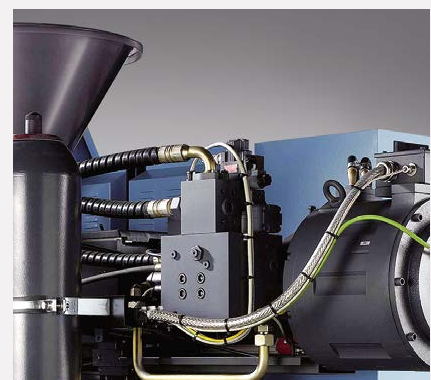


Encoder interfaces

We work with numerous manufacturers and offer analog, digital and reliable rotary encoder systems. These differ, among other things, regarding their accuracy. Our drive experts advise you on the different variants depending on your requirements. The range extends from resolver to Sick to Heidenhain encoders with their different protocols.

Areas of application

- ✓ Plastics machines
- ✓ Textile machines
- ✓ Robotics
- ✓ Packaging machines
- ✓ Printing machines
- ✓ Metalworking machines
- ✓ Environmental and recycling technology
- ✓ Medical technology and pharmaceuticals



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