

HOCHFREQUENZ-MOTORSPINDEL
HIGH-FREQUENCY MOTOR SPINDLE



6045 DC-C5

D45/60



CD45



FL45



HIGH EFFICIENT DRIVE TECHNOLOGY

Stiff & strong clamping system

- Collet up to Ø 6 mm
- Transmissible torque 2 Nm
- Automatic taper cleaning

Synchronous BLDC motor

- Highest efficiency
- Up to 1.3 kW or 3.7 kW

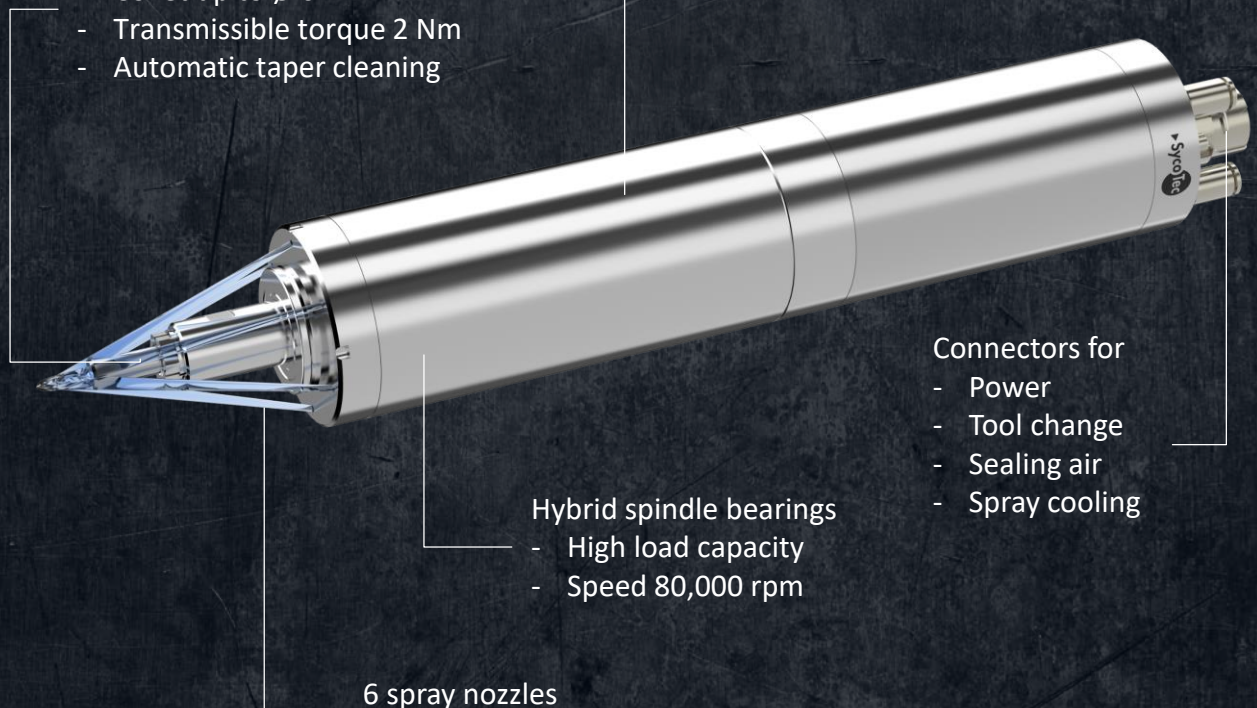
Connectors for

- Power
- Tool change
- Sealing air
- Spray cooling

Hybrid spindle bearings

- High load capacity
- Speed 80,000 rpm

6 spray nozzles
for tool cooling



6045 DC-C5-80-10

6045 DC-C5-80-20



	6045 DC-C5-80-10	6045 DC-C5-80-20
Speed	5,000 - 80,000 rpm	5,000 - 80,000 rpm
Housing diameter	45 mm	
Motor system	Brushless DC motor BLDC	
Motor type options	45-DC-03	45-DC-04
Frequency	83 - 1,333 Hz	83 - 1,333 Hz
Voltage	45 V	172 V
Current	S1: 16 A, max. 24 A-60s	S1: 10.3 A, max. 17 A-5s
Output power	S1: 1,000 W, max. 1,370 W	S1: 2,000 W, max. 3,700 W
Torque	S1: 12.4 Ncm, max. 20.1 Ncm	S1: 24.5 Ncm, max. 44.5 Ncm
Motor protection	PTC	
Bearing system	2 x Hybrid, lifetime lubrication	
Run-out (taper)	≤ 1.5 µm	≤ 1 µm
Chuck type	C5	
Chuck clamping range	Max. Ø 6.0 mm	
Tool change	Housing D45/60 Housing CD45 Housing FL45	Pneumatic 4 - 4.5 bar Pneumatic 5.5 - 6 bar Pneumatic 5.5 - 6 bar
Taper cleaning	Automatic each tool change	
Cooling system	Internal channels for spray cooling	
Spray cooling	6 spray nozzles Max. 5 bar	
Protection category	IP 55	
Protected against dirt and cooling lubricant	Sealing air 15 - 20 l/min@STP	
Cable / plug type	915	
Housing material	Stainless steel	
Housing options	D45/60, CD45, FL45	

