



Series M21

CySpeed

2.2.201

Turning/milling spindle CST-42-180-S

Drive		
Power:	42 kW (S1)	53 kW (S6)
Nominal speed:	2.000 r.p.m.	
Torque max.:	201 Nm (S1)	253 Nm (S6)
Speed max.:	10.000 r.p.m.	
Motor type:	synchronous/ 8poles	
Power connection:	400 V/ 165 A	
Shaft clamping system:	clamping torque 2.000 Nm/ 40 bar	
Tool system:	HSK-T100	
Clamping system:	hydraulically operated	
Clamping force:	30 kN/65 bar	
Clamping monitoring:	CyCon K 11-U	
Release pressure max.:	120 bar	
Tool cleaning:	air, 4-6 bar	
Spindle bearing:	<< >> Ø 100 steel	
Bearing rigidity:	axial 557 N/µm, radial 680 N/µm	
Bearing lubrication:	grease	
Sealing:	with sealing air and labyrinth	
Encoder signal:	1 Vpp/256 teeth	
Spindle cooling:	liquid cooling (Antifrogen N/Tyfocon)	
Power dissipation:	6 kW	
Cooling volume flow approx.:	15 l/min (2 bar)	
Metal removal rate:	Milling	Turning
Steel	700 cm ³ /min	700 cm ³ /min
Tool cooling		
External coolant supply (ECS):	8 spray nozzles	
Internal coolant supply (ICS):	optional (through spindle shaft)	
max. pressure/filter mesh:	45 bar (20 l/min)/40 µm	
MQL internal/external:	optional	

