



	Mm 34 30 26 22 18 14 10 0	M 34 30 26 22 18 14 10
	6 2 100 200 300 400 500 600 <u>n</u> min ⁻¹	6 2 100 200 300 400 500 600 n min ⁻¹
i	Motor MTC1-145-2	Motor MTC1-145-3
	20 Nm	34 Nm
	9 A _{eff}	12 A _{eff}

eak torque		20 Nm	34 Nm	
eak current		9 A _{eff}	12 A _{eff}	
all torque		10 Nm	14 Nm	
irrent at stall torque		3,8 A _{eff}	4,0 A _{eff}	
aximum rotary speed with	Controller 1 Controller 2	400 RPM 500 RPM	400 RPM 500 RPM	
otor inertia		0,0148 kgm ²	0,0173 kgm ²	
aximum axial load, compression/tension		20.000/20.000 N		
aximum radial load		200 Nm		
coder resolution		8.388.608 Increments		
sitioning accuracy solute/repeatability		80/3 arc sec		
inding protection		PTC		
otection class		IP44		
nbient temperature		0 40° C		
orage temperature		-20 80° C		
elative humidity		20 85 %		
stallation height		1000 above sea level		
ameter outer (a)/ inner(i)		145/56 mm		
ameter of bore rings b/c		130/72 mm		
verall length (I)		123 mm	151 mm	
eight		7,3 kg	9 kg	

Technical Data Servo Controller	Servocontroller 1 CTC32.008	Servocontroller 2 CTC34.008	
Nominal current	7,1 A	7,8 A	
Peak current (for 30 s)	12,8 A	14 A	
Mains voltage	1 x 230 V -20 %+15 %	3 x 460 V -25 %+10 %	
Mains frequency	50/60 Hz ±10 %		
Protection class	IP20		
Ambient temperature	-10 45° C		
Storage temperature	-25 75° C		
Relative humidity	15 85 %		
Dimensions (L x H x D)	70 x 218 x 145 mm	70 x 300 x 218 mm	
Weight	2,3 kg	4,4 kg	



For more communication

Technical Data

Direct-Drive Motors

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> Please ask for additional descriptions and technical details by e-mail, phone or fax. It is a pleasure to keep you informed about the latest developments in TORQUECHAMPION[®] systems.

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DRIVES FOR AUTOMATION

TORQUECHAMPION[®]

Presentation

The direct-drive solution with hollow shaft from 20 to 34 Nm

The new direct-drive solution for applications in productronics



LCSJ

The direct-drive system TORQUECHAMPION®

Is the new high-dynamic direct-drive system of LUST Antriebstechnik for precise, fast and maintenance-free positioning.

The direct-drive motor MTC

• Minimum space required, due to the small overall length and design without gear.



• The hollow shaft allows easy

rotor motor. Without gear the motor can coupled torsion-

proofed to mechanical systems,

with the following advantages:

- no backlash and hysteresis

extremely high-dynamic

speed control

electronic gear

electronic cam

free-programmable

single-axis positioning

and sequence control

maintenance-free

wear resisting

drive

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• Peak torgue of MTC-motor available up to maximum speed, guarantees shorter positioning times.

The CTC3000 directdrive controller

The CTC allows highdynamic and precise positioning.

• Up to 32 positioning data sets with target position, maximum speed and acceleration can be stored via digital inputs or by means of field bus.

• Additional functions:

Inclusive: The free-programmable single-axis positioning and sequence control.

Sequence control

- processing of inputs and outputs
- logical links
- basic arithmetic operations
- variables, marker, counter and timer
- max. 700 program sets

Positioning control

- point-to point positioning, absolute and relative
- path-optimised positioning
- set changes on the fly without stop
- linear and jerk limited ramps
- synchronous functions
- two touch-probe inputs

Motor control

- position, speed and torque controller
- position controller with 0.25 ms cycle time
- smooth rotation even at low speed and
- very fast settling time

Thus, the TorqueChampion[®] direct-drive system can easily be adapted to your particular application.

Talk to me ...

Equipped with one of three field bus modules, the CTC3000 direct-drive controller can communicate as an intelligent sub-system with a PLC or an industrial PC via CAN_{LUST}, CAN_{OPEN} or PROFIBUS-DP.

- Easy transfer of set points, actual values and parameters as well as controlling and monitoring the device
- Easy integration in automatization systems of different manufacturers
- Save wiring expenditure and commissioning time

Fast and easy commissioning

The complex and sophisticated technology of the TORQUECHAMPION[®] direct-drive system can easy and intuitively be operated with the PC user software, DRIVEMANAGER¹. The following functions are at your disposal:

- Easy handling at operating mode and functional levels complete with graphics support
- Status display for the monitoring of I/Os and operational data
- Convenient four-channel digital scope for the real-time recording of actual values
- Comparison function to make trouble shooting easier.

1) can be used in conjunction with Microsoft Windows $^{\textcircled{R}}$ 95/98 or NT/2000





CM-CAN1 CM-CAN2

CM-DPV1

