Pure dynamics from linear to rotative CDD3000



c-line _ positioning system



CDD3000 _ The all-rounder

for "almost" limitless project planning freedom

You can only meet your extreme dynamic and precision requirements with linear or rotative direct drives? No problem.

You also use conventional synchronous servomotors in the same machine for less demanding tasks? Why not.

And while we're on the subject, there's also the asynchronous geared motor in the material infeed, not forgetting the drive which must rotate really quickly at 60,000 min⁻¹ and of course you want to drive all that with the same servo controller type?

Now, just don't lose heart!

Just take a look at our CDD3000. This is as good as made for users who want to cover a very wide range of applications with only one type of device to avoid the problems raised by different operating philosophies or incompatibilities in the interconnection protocols.

So that you can always reach your project aims with the available power variants, the CDD3000 from 2 A to 32 A is available in 5 sizes.







CDD3000 _ Pure dynamics!

Selecting the motor is not the only area where flexibility is important to us. Integration of the motor into the automation world is equally flexible, whether a field bus system is used or not. A "Default solution" is available in the servo controller at the click of the button for every typical drive task. This makes commissioning very easy and very quick. However, if the standard functions ever should reach their limits, the freely programmable iMOTION offers additional options.

It goes without saying that you can expect a well-established, tailor-designed consultancy service, competent support during commissioning, sophisticated ordering and delivery logistics to meet your every need, an outstanding service and diagnostic ability and last but not least, highquality products from us. But this will surely not come as any surprise to you as the CDD3000 is, after all, a member of the successful c-line DRIVES family from LTI.



for dynamic and precise positioning, rotative

for dynamic and precise





Linear motors

positioning, linear



as a robust encoder in expensive applications



Evaluation of two encoders for positioning non-ideal mechanics accurately to the $\boldsymbol{\mu}$



CANopen, PROFIBUS-DP a modular extension to be connected to your control unit



Cam controller

for generating position-dependent control signals to control the connected machine peripheral devices

Encoder simulation for conventional positioning using ±10 V-interface



for programming movement processes and sub-processes close to the process

The servo controllers CDD3000 are available in power classes 2 A to 32 A. In addition, there is a wide range of synchronous, asynchronous and direct drive motors available. Optimize your drive solution with the options made possible by the c-line DRIVES.



Direct is simply more dynamic

Positioning tasks increasingly require extremely short positioning cycles and high precision.

The CDD3000 for direct drives can be used here:

Application areas for direct drives

- Highly dynamic positioning of low grounds with iron-less linear motors
- Powerful movement with iron-tainted linear motors
- High torque of 10 Nm in productronics or up to 10,000 Nm in elevator engineering

Special functions for direct drive technology

- Commutation detection, incl. standstill braking
- Compensation of detent and friction torques
- Suppression of mechanical natural frequencies through use of notch filter
- Pre-controls up to current controller
- GPOC to compensate for encoder inaccuracies
- Special software for directly driven elevators





Positioning controllers _ CDD3000



Size	BG1	BG2	BG3	BG4	BG5
Rated current [A] (1 x 230 V ma	ins)	2.4/4	5.5/7.1	_	_
(3 x 400/460 V ma	ins)	2.2/4.1/5.7	7.8/10	14/17	24/32
Motor power [kW] _{1.)}	0.375/0.75	1.1/1.5/2.2	3/4	5.5/7.5	11/15
Peak current [A]	1.8 times rated current for 30 s				
Wall mounting		х	х	х	х
Cold plate	х	х	х	х	х
Push-through heat sink			х	х	х
Certification				CE, cUL	
Dimensions (W x H x D) in mm	70 x 223 x 152	70 x 248 x 177	70 x 300 x 250	120 x 300 x 250	170 x 300 x 250

The braking chopper electronics is integrated in all controllers. A network filter is integrated in all controllers up to 17 A in compliance with EN61800-3. 1.) referred to 4-pin asynchronous motors



Servomotoren _LSH / LST

LSH-050	LSH-074	LSH-097	LSH-127	LST-037	LST-050	LST-074	LST-097	LS
0,26-0,95	0,95-4,2	4,1-8,6	11,6-27,0	0,1-0,3	0,20-0,95	0,65-3,0	2,6-9,5	6,6
0,24-0,84	0,86-3,1	3,2-6,1	8,4-21	0,09-0,27	0,19-0,85	0,6-2,5	2,3-8,5	5,7
4500	3000	3000	3000	6000	4500	3000	3000	3
55	86	98	142	37	55	86	98	1
67-112	96-186	129-189	172-290	81-111	98-158	109-181	146-236	18
0,06-0,12	0,5-1,5	1,7-3,5	6,8-15,3	0,06-0,08	0,6-0,18	0,5-1,5	1,9-6,1	5,9
	0,26-0,95 0,24-0,84 4500 55 67-112	0,26-0,95 0,95-4,2 0,24-0,84 0,86-3,1 4500 3000 55 86 67-112 96-186	0,26-0,95 0,95-4,2 4,1-8,6 0,24-0,84 0,86-3,1 3,2-6,1 4500 3000 3000 55 86 98 67-112 96-186 129-189	0,26-0,950,95-4,24,1-8,611,6-27,00,24-0,840,86-3,13,2-6,18,4-21450030003000300055869814267-11296-186129-189172-290	0,26-0,950,95-4,24,1-8,611,6-27,00,1-0,30,24-0,840,86-3,13,2-6,18,4-210,09-0,27450030003000300060005586981423767-11296-186129-189172-29081-111	0,26-0,950,95-4,24,1-8,611,6-27,00,1-0,30,20-0,950,24-0,840,86-3,13,2-6,18,4-210,09-0,270,19-0,85450030003000300060004500558698142375567-11296-186129-189172-29081-11198-158	0,26-0,950,95-4,24,1-8,611,6-27,00,1-0,30,20-0,950,65-3,00,24-0,840,86-3,13,2-6,18,4-210,09-0,270,19-0,850,6-2,5450030003000300060004500300055869814237558667-11296-186129-189172-29081-11198-158109-181	0,26-0,950,95-4,24,1-8,611,6-27,00,1-0,30,20-0,950,65-3,02,6-9,50,24-0,840,86-3,13,2-6,18,4-210,09-0,270,19-0,850,6-2,52,3-8,5450030003000300060004500300030005586981423755869867-11296-186129-189172-29081-11198-158109-181146-236







Direct drives TorqueChampion

Direct drives _ linear

Direct drives _ rotating

Motor type	synchronous
Types	ironless, ironcore
Rated force [N]	30 - 5850
Max. speed [m/s]	10

Impulse torque [Nm]	20 - 70	
Standstill torque [Nm]	10 – 35 (50)*	
Max. speed [rpm]	250 – 500	
Hollow shaft [mm]	56	
Outside diameter [mm]	145 – 200	

 $^{\star}($) Data for motors with water cooling

Technical changes reserved. Information and specifications are subject to change at any time. For more information please visit us at www.lt-i.com.



LST-127	LST-158	LST-190	LST-220
6,6-22,0	13,5-35,0	27,0-40,0	40,0-115,0
5,7-17,0	13,0-26,0	21,0-26,0	30,0-50,0
3000	3000	3000	3000
142	190	190	240
185-304	201-395	242-287	310-514
5,9-11,7	13,1-46,0	36,0-46,0	76,0-190,0

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Accessories

Hand-held control unit, memory card	KeyPad KP200-XL, KP300, SmartCard SC-XL
Communication modules	CANopen, PROFIBUS-DP
I/O add-on	for additional digital and analog I/Os

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> LTi DRiVES GmbH Heinrich-Hertz-Straße 18 59423 Unna GERMANY Fon +49 (0) 2303/ 77 9-0 Fax +49 (0) 2303/ 77 9-397 Mail info@lt-i.com www.lt-i.com

LTi DRiVES GmbH Gewerbestraße 5-9 35633 Lahnau GERMANY Fon +49 (0) 6441/ 96 6-0 Fax +49 (0) 6441/ 96 6-177 Mail info@lt-i.com www.lt-i.com