



ROTARY SOLUTIONS › MACHINE TOOLS & METROLOGY

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Global network

Europe

- Austria
- Benelux
- Bosnia
- Bulgaria
- Croatia
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Germany
- Hungary
- Iceland
- Ireland
- Italy
- Kosovo

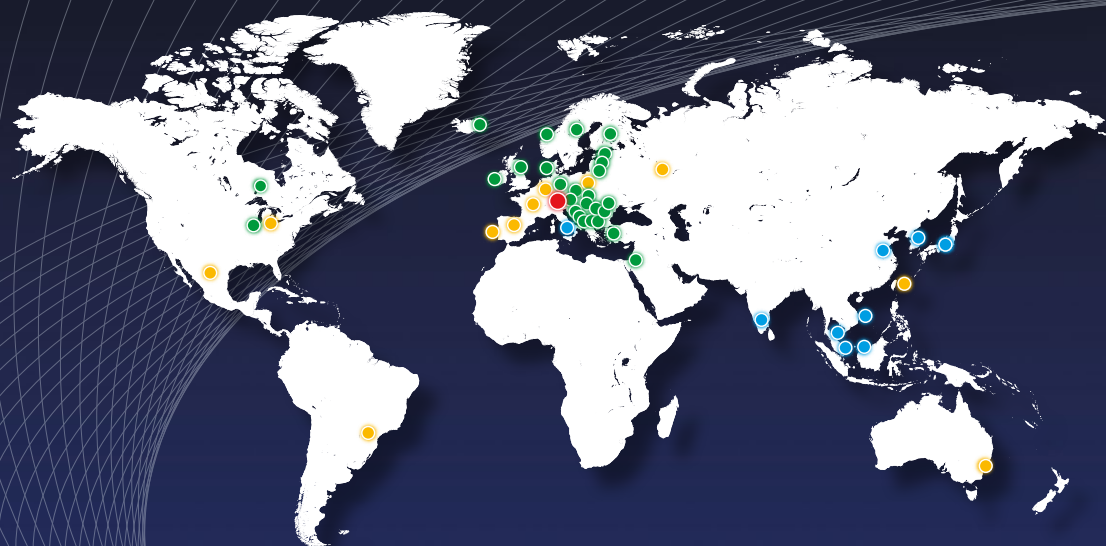
- Latvia
- Lithuania
- Macedonia
- Norway
- Poland
- Portugal
- Romania
- Russia
- Serbia
- Slovakia
- Slovenia
- Spain
- Sweden
- Turkey
- UK

America

- Brazil
- Canada
- Mexico
- USA

Asia

- China
- India
- Israel
- Japan
- Malaysia
- Singapore
- South Korea
- Taiwan
- Thailand
- Vietnam



● Headquarters ● direct sales ● pL SOLUTIONS® partner ● value added reseller & partner
More information (address, telephone number, etc.) at www.lehmann-rotary-tables.com

Subject to change / Edition: 5/2025



CNC Rotary Tables – Edition 5



PGD
Series

Preloaded
Gear Drive

2025

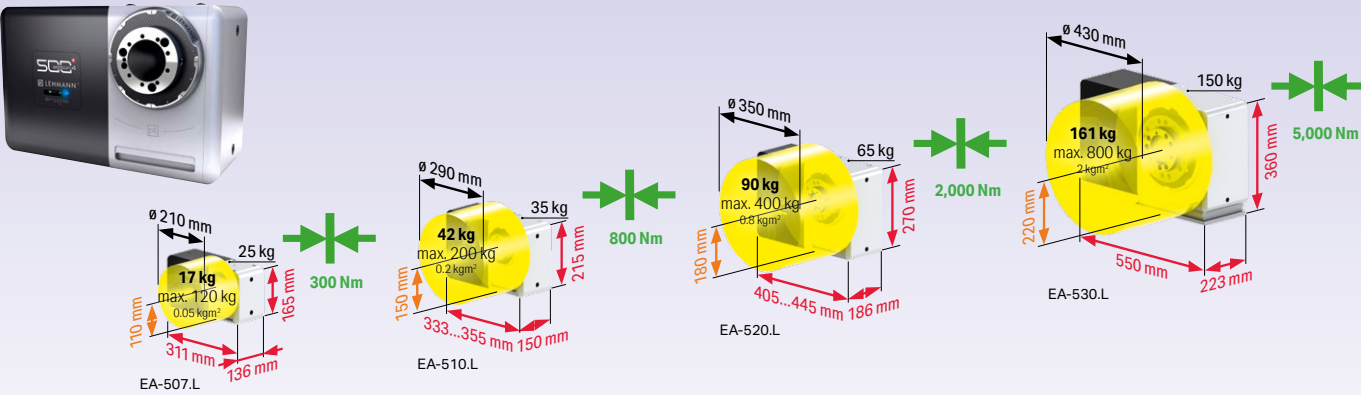
Datasheet
E-Series

5/2025 | EN

Backlash-free, high-speed, with sensors –
ready for real Industry 4.0 thanks to pL-smartBox

Swiss Quality

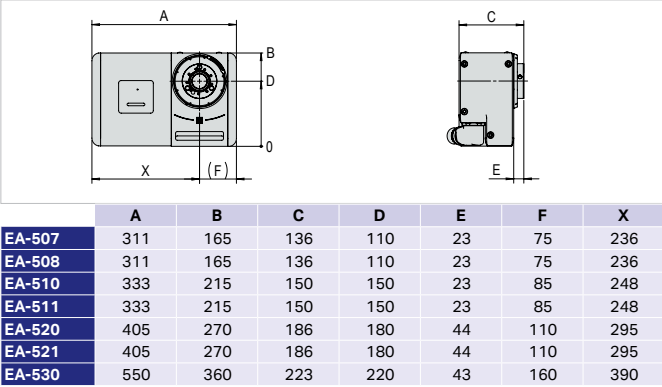




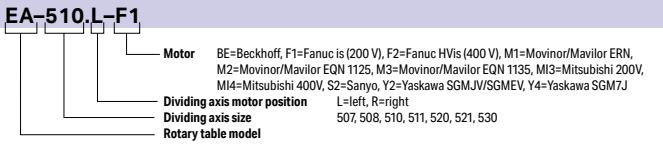
			EA-507	EA-508	EA-510	EA-511	EA-520	EA-521	EA-530
Dimensions	Swivel ø	mm	160		240		350		430
	Center height	mm	110		150		180		220
	Total weight	kg	25		35		65		150
	Center bore ²⁾	mm	31		34		46 / 64		90 / 102
Bearing / Clamping	Max. clamping torque	Nm	300	250	800	600	2,000	1,800	5,000
	Max. spindle load	kg	240		400		800		1600
	without tailstock	kg	120		200		400		800
	Standard load ¹⁾	kg	17	12	42	22	90	61	161
	Max. axial force	kN	44		46		100		210
Gear unit	Max. pull-out torque	Nm	1,200		2,000		3,900		10,400
	Max. moment of inertia	kgm²	0.05	0.025	0.2	0.07	0.8	0.4	2
	J max	kgm²	0.5	0.25	2	0.7	8	4	20
	Max. feed torque ³⁾	Nm	120	70	250	150	440	230	650 opt. 850
Precision	Limited torques due to eccentric loads ⁴⁾	Nm	25	9 ⁵⁾	40	30 ⁵⁾	110	45 ⁵⁾	280
	Indexing accuracy Pa ²⁾	± arc sec	20/15		17/10		12/8		10/6
	Repeat accuracy Ps average	± arc sec				2			
	Max speed	rpm	111	210	80	160	50	100	40
Precision	Radial run-out ²⁾	µm				6 / 3			
	Axial run-out ²⁾	µm				6 / 3			
	Parallelism ²⁾	µm/100 mm				10 / 5			

¹⁾ Mutually dependent; for individual drive motor data, see right side
²⁾ Standard / increased (optional); for measuring method and validity of the values, see main catalog 500 p. 74,
for optional angular position measuring system, see main catalog 500 p. 76/77
³⁾ Limit value for gear unit, at 1 rpm
⁴⁾ For torque calculation, see main catalog 500 p. 114
⁵⁾ Limit value for self-locking, gear unit 508/511/521

Dimensions

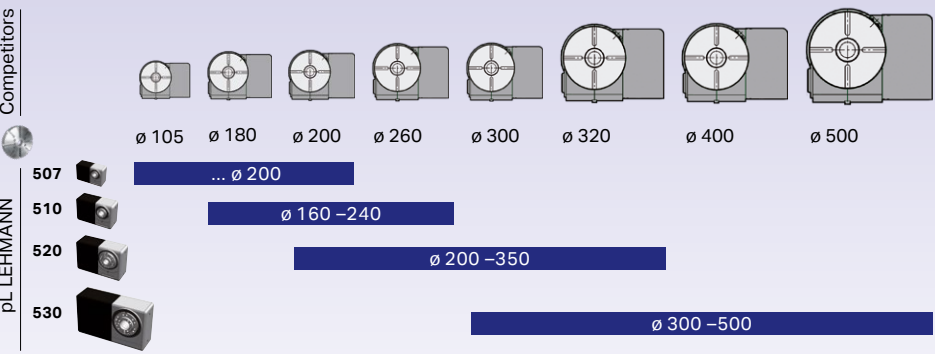


Item no.



Options & Accessories

- base plate
- direct measuring
- labyrinth sealing
- clamping cylinder
- clamping yoke rotoFIX
- rotary union
- tailstock
- counter bearing
- Tooling: face plate, chuck, zero point system, vises, ...



Drive data

(based on standard load cube, see main catalog 500 p. 112/113)

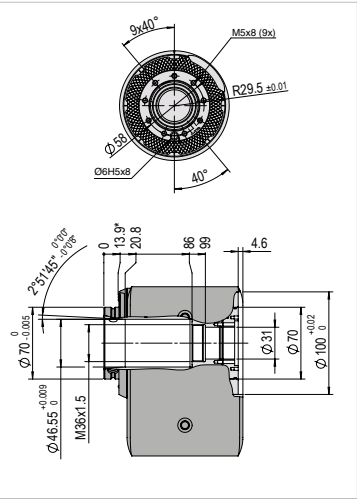
			Feed*	Speed	Cycle time***	
		Motors	[Nm]	[rpm]	[sec]	
MAVILOR / MOVINOR **	EA-507	BLS-072	120	111	0.26	0.39
	EA-508	BLS-072	70	210	0.23	0.29
	EA-510	BLS-072	250	80	0.30	0.49
	EA-511	BLS-072	150	160	0.23	0.31
	EA-520	BLS-073	440	50	0.41	0.71
	EA-520	LN-098	440	45	0.43	0.77
	EA-521	LN-098	230	90	0.27	0.43
	EA-530	LN-098	650	40	0.52	0.89
FANUC	EA-507	β1 is	80	66.7	0.30	0.53
	EA-508	β1 is	55	130	0.25	0.36
	EA-510	α2 (HV)is	120	55	0.36	0.63
	EA-511	α2 (HV)is	85	100	0.24	0.39
	EA-520	α2 (HV)is	210	33	0.54	0.99
	EA-520	α4 (HV)is	355	33	0.56	1.01
	EA-521	α4 (HV)is	230	60	0.37	0.62
	EA-530	α4 (HV)is	420	27	0.69	1.25
YASKAWA SGM7J	EA-530	α8 (HV)is****	650	26.7	0.64	1.20
	EA-507	SGM7J 06	120	66	0.30	0.53
	EA-508	SGM7J 06	70	133	0.22	0.33
	EA-510	SGM7J 08	195	66.6	0.32	0.55
	EA-511	SGM7J 08	135	133	0.22	0.33
	EA-520	SGM7J 08	335	40	0.46	0.84
	EA-521	SGM7J 08	230	80	0.28	0.46
	EA-507	SGMJV 04	115	66.7	0.30	0.53
YASKAWA SGMJV	EA-508	SGMJV 04	70	130	0.22	0.33
	EA-510	SGMJV 08	195	66.7	0.32	0.55
	EA-511	SGMJV 08	140	133	0.21	0.32
	EA-520	SGMJV 08	335	40	0.46	0.84
	EA-521	SGMJV 08	230	80	0.28	0.46
	EA-530	SGMEV 15	650	27	0.65	1.21
	EA-507	HG56	120	60	0.32	0.57
	EA-508	HG56	70	110	0.22	0.36
MITSUBISHI	EA-510	HG-(H)75	185	50	0.37	0.67
	EA-511	HG-(H)75	130	100	0.24	0.39
	EA-520	HG-(H)105	440	32	0.54	1.01
	EA-521	HG-(H)105	230	60	0.34	0.59
	EA-530	HG-(H)104	650	24	0.70	1.32
	EA-507	R2Ax 06040	120	66.7	0.30	0.52
	EA-508	R2Ax 06040	70	130	0.22	0.33
	EA-510	R2Ax 08075	210	66.7	0.32	0.55
SANYO	EA-511	R2Ax 08075	145	130	0.22	0.34
	EA-520	R2Ax 08075	270	45	0.43	0.77
	EA-521	R2Ax 08075	175	95	0.28	0.43
	EA-510	1FK2204	150	65	0.33	0.56
	EA-511	1FK2204	105	130	0.22	0.33
	EA-520	1FK2205	425	33	0.53	0.98
	EA-520	1FK7042	435	50	0.44	0.74
	EA-521	1FK2205	230	65	0.30	0.53
SIEMENS	EA-521	1FK7042	230	90	0.27	0.43
	EA-530	1FK2206	650	35	0.56	0.98
	EA-530	1FK7062	650	40	0.52	0.89

* At 1 rpm; for more, see main catalog 500 p. 118
** for Siemens / Heidenhain
*** Without clamping; for times, see main catalog 500 p. 132
**** not with 35iB

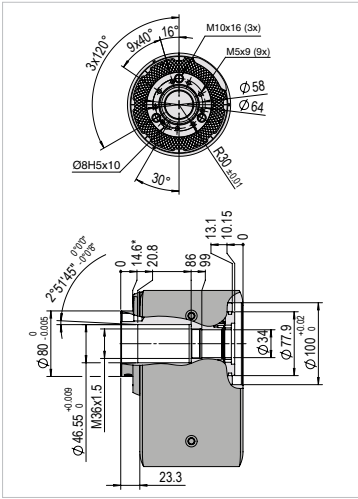
Connection dimensions for spindles

All spindle connection dimensions front and back for building your fixture. Applies to all versions, whether EA-, M- or T-type rotary table

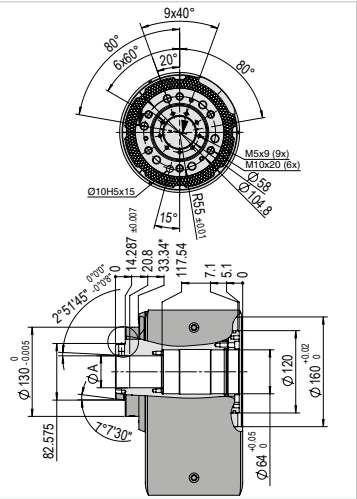
Module size 507 HSK-A63/ø70



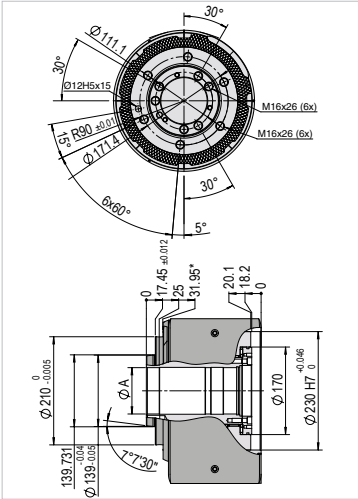
Module size 510 HSK-A63/ø80



Module size 520 HSK-A63/KK5



Module size 530 ø90/KK8



Dimension A
Standard: Ø46.55 +0.009/0
SPI.520-d64: Ø64

Dimension A
Standard: Ø90 +0.015/0
SPI.530-d102: Ø102

HSK = Hollow shank taper in acc. with DIN 69063-1 (spindle) or
DIN 69893 (adapter), KK...= Short taper size ... in acc. with DIN 55026

* with SPI.5xx-Lab:
507 = 1.25
510 = 4.95
520 = 20.15
530 = 21.75
(see main catalog 500 p. 34-67)

Main catalog
PGD Series

