

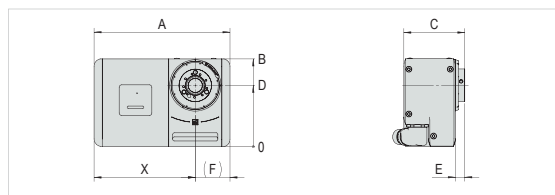
Overview,
ApplicationsSystem &
Facts, smartBoxRotary
tablesSPZ,
DDF, WMSMOT, KAB,
WDF, CNCAligning,
GLA, RST, LOZService
& Technology

Tooling

			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	with motor	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	with tailstock	240		400		800		1600
		without tailstock	120		200		400		800
		Standard load ¹⁾	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	Standard load ¹⁾	0.05	0.025	0.2	0.07	0.8	0.4	2
		J max	0.5	0.25	2	0.7	8	4	20
	Max. feed torque ³⁾	 Nm	120	70	250	150	440	230	650 opt. 850
	Limited torques due to eccentric loads ⁴⁾	Nm	25	9 ⁵⁾	40	30 ⁵⁾	110	45 ⁵⁾	280
Precision	Indexing accuracy Pa ²⁾	 ± arc sec	20/15		17/10		12/8		10/6
	Repeat accuracy Ps average	 ± arc sec			2				
	Max speed	with standard load ¹⁾	111	210	80	160	50	100	40
Precision	Radial run-out ²⁾	on spindle ø				6 / 3			
	Axial run-out ²⁾	at spindle end face				6 / 3			
	Parallelism ²⁾	Dividing axis to base				10 / 5			

¹⁾ Mutually dependent; for individual drive motor data, see right side²⁾ Standard / increased (optional); for measuring method and validity of the values, please refer to p. 80, for optional angular position measuring system please refer to p. 82/83³⁾ Limit value for gear unit, at 1 rpm⁴⁾ For torque calculation, see p. 120⁵⁾ Limit value for self-locking, gear unit 508/511/521
 = High Series
(high speed, high resistance)

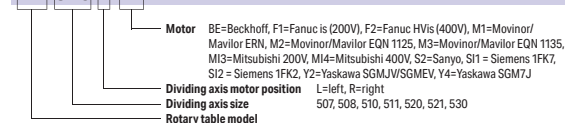
Dimensions

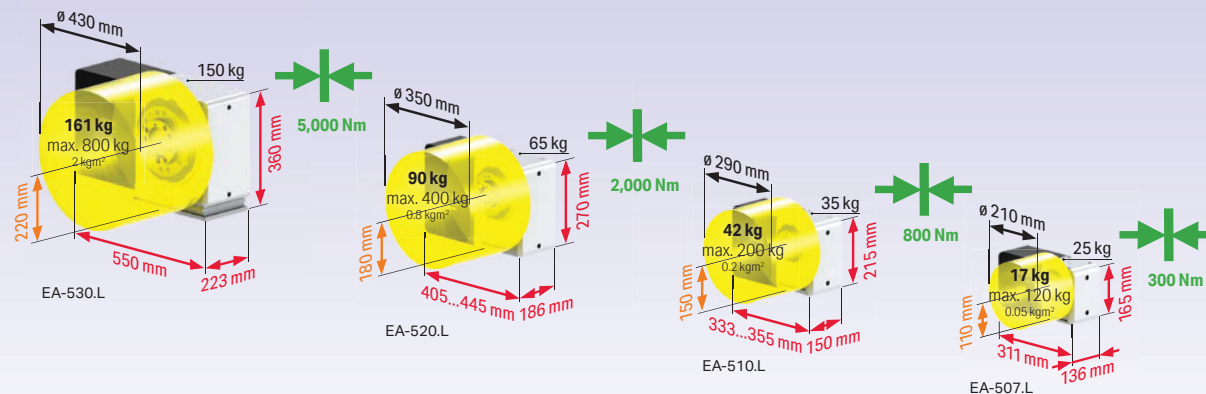


	A	B	C	D	E	F	X
EA-507	311	165	136	110	23	75	236
EA-508	311	165	136	110	23	75	236
EA-510	333	215	150	150	23	85	248
EA-511	333	215	150	150	23	85	248
EA-520	405	270	186	180	44	110	295
EA-521	405	270	186	180	44	110	295
EA-530	550	360	223	220	43	160	390

Item no.

EA-510.L-F1





Drive data

(based on standard load cube shown on pp. 118/119)

		Motors	Feed* [Nm]	Speed [rpm]	Cycle time*** [sec]	90°	180°
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	
FANUC	EA-530	LN-098	650	40	0.52	0.89	
	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	
YASKAWA SGM7J	EA-521	α4 (HV)is	230	60	0.37	0.62	
	EA-530	α4 (HV)is	420	27	0.69	1.25	
	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	
YASKAWA SGMJV	EA-520	SGM7J 08	335	40	0.46	0.84	
	EA-521	SGM7J 08	230	80	0.28	0.46	
	EA-530	SGM7A-25	650	40	0.52	0.89	
	EA-507	SGMJV 04	115	66.7	0.30	0.53	
	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	
MITSUBISHI	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	
	EA-510	HG-(H)75	185	50	0.37	0.67	
	EA-511	HG-(H)75	130	100	0.24	0.39	
SANYO	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	
	EA-511	R2Ax 08075	145	130	0.22	0.34	
SIEMENS	EA-520	R2Ax 08075	270	45	0.43	0.77	
	EA-521	R2Ax 08075	175	95	0.28	0.43	
	EA-507	1FK2203	85	80	0.28	0.46	
	EA-508	1FK2203	60	140	0.22	0.32	
	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	
	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, please refer to p. 124

** for Siemens / Heidenhain

*** Without clamping; for times, please refer to p. 138 **** not with 35IB

For calculation of load, forces and torques, please see p. 120

Important information

- The limit values as set out in the corresponding parameter list take precedence over the data and information provided in the main catalog (due to motor, drive enhancement and the respective machine CNC)
- Motor-independent data are optimum values at operating temperature
- Further details are available at www.lehmann-rotary-tables.com, under Down-load / Commissioning



Labyrinth seal
(cutaway view)

- Recommended for:
- grinding operations
 - high coolant pressures
 - Glass and ceramics machining
 - extremely fine abrasive particles

Accessories

Base plates pp. 38/39, Motor, cable, angular position measuring system and pL-CNC starting at p. 82. Accessories starting at p. 72

Options

Item no.	Description
GET.5xx-GEN	Increased gear precision ¹⁾
GEO.5xx-GEN	Incr. geometric precision, ½ standard tolerance
SPI.5xx-Lab ²⁾	Spindle seal with labyrinth, integrated sealing air pressure control

¹⁾ incl. lower radial and axial run-out of 0.003 mm

²⁾ for 507/510: HSK and ripas clamping not possible manually, GET.5xx-GEN and GEO.5xx-GEN only partly possible (lower radial and axial run-out cannot always be achieved)

Suitable alignment elements

Item no.	Designation	Slot width	Weight [kg]
AUR.St-12	Alignment block, 1 pair	12h6	0.07
AUR.St-14		14h6	0.07
AUR.St-16		16h6	0.07
AUR.St-18		18h6	0.07