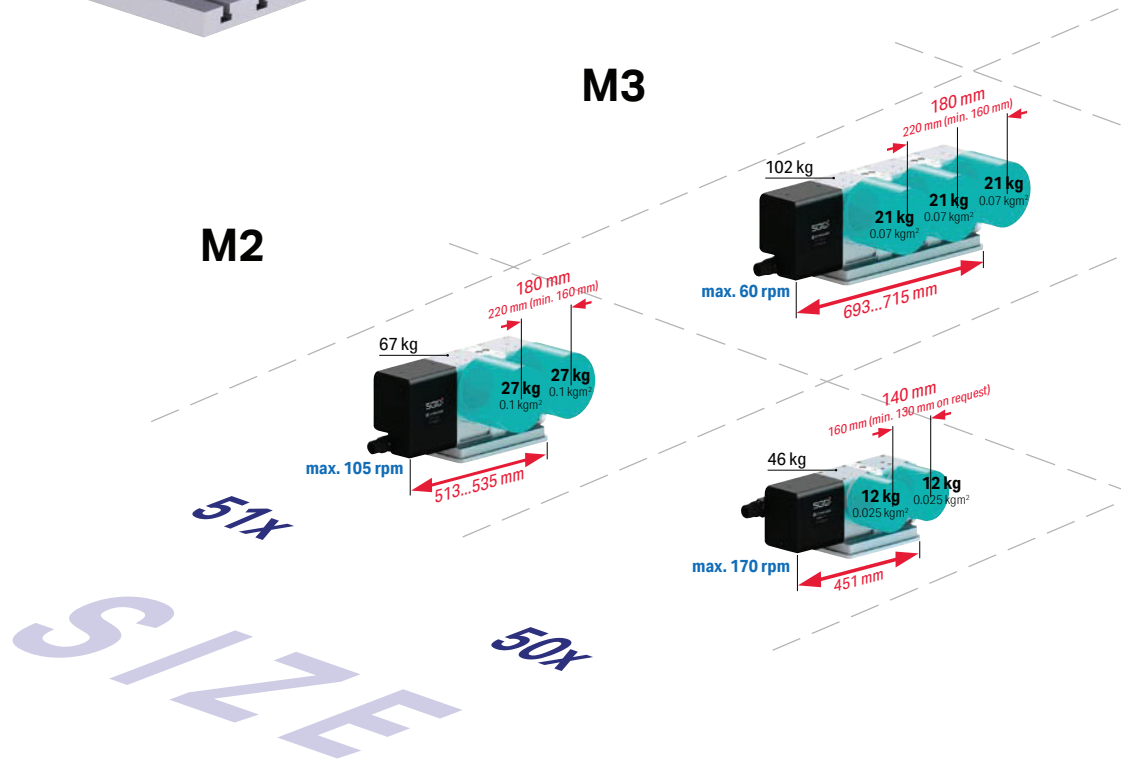




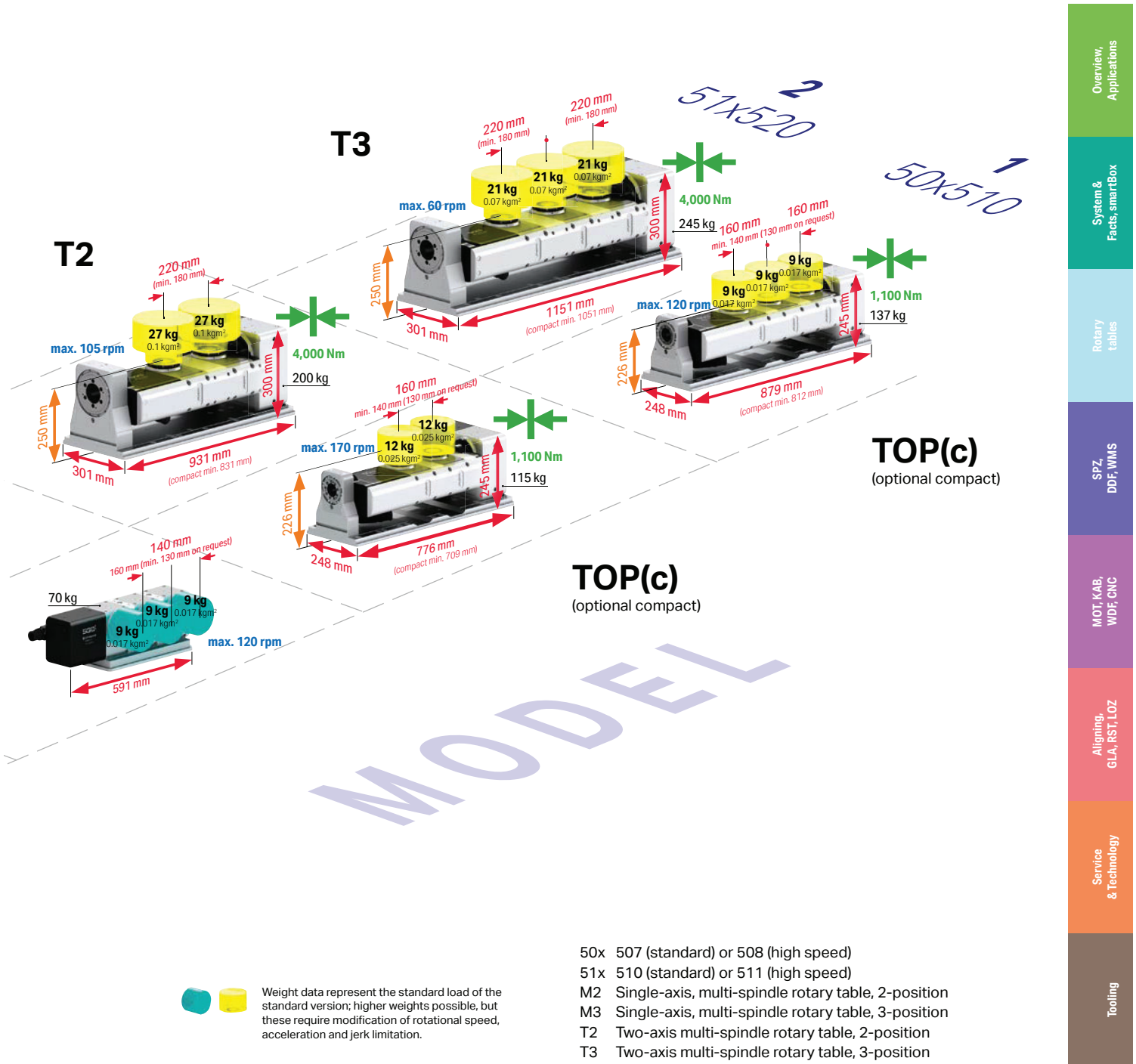
More space for workpiece and fixtures



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### Facts

- Up to 54 % higher clamping torque in tilting axis
- Fewer variants – more solutions
- Spindle distance min. 130 mm
- Spatially optimized arrangement of the dividing axis



Weight data represent the standard load of the standard version; higher weights possible, but these require modification of rotational speed, acceleration and jerk limitation.

- 50x 507 (standard) or 508 (high speed)
- 51x 510 (standard) or 511 (high speed)
- M2 Single-axis, multi-spindle rotary table, 2-position
- M3 Single-axis, multi-spindle rotary table, 3-position
- T2 Two-axis multi-spindle rotary table, 2-position
- T3 Two-axis multi-spindle rotary table, 3-position

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# M-type rotary tables



M2



M3

  = High Series  
(high speed, high resistance)

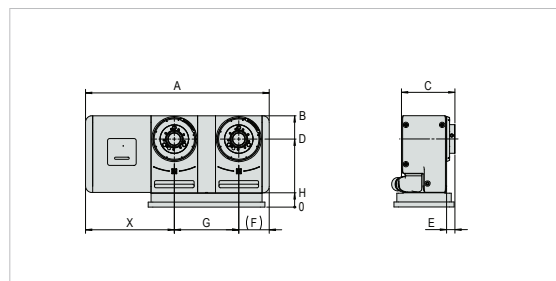
			M2-507	M2-508	M2-510	M2-511	M3-507	M3-508	M3-510	M3-511	
Dimensions	Swivel ø	mm	140		180		140		180		
	Spindle distance	mm	140		180		140		180		
	Center height	mm	150		190		150		190		
	Total weight	with motor kg	46		67		70		102		
	Center bore	mm	31		34		31		34		
Bearing / Clamping	Max. clamping torque	Nm	300	250	800	600	300	250	800	600	
	Max spindle load per spindle	with tailstock	kg	2x120	2x60	2x200	2x100	3x80	3x40	3x133	3x67
		without tailstock	kg	2x60	2x30	2x100	2x50	3x40	3x20	3x67	3x33
		Standard load*	kg	2x12	2x7.5	2x27	2x14	3x9	3x6	3x21	3x11
Max. axial force	per spindle kN	44		46		44		46			
Max. pull-out torque	per spindle Nm	1200		2000		1200		2000			
Max. moment of inertia	Standard load*	kgm <sup>2</sup>	0.05	0.025	0.2	0.07	0.05	0.025	0.21	0.07	
	J max	kgm <sup>2</sup>	0.5	0.25	2	0.7	0.5	0.25	2	0.7	
Max. feed torque	Nm	120	70	190	140	120	70	150	120		
Gear unit	Limited torques due to eccentric loads (per spindle)***		Nm	20	9	25	20	10	9	13	10
	Indexing accuracy	Pa **	± arc sec	20		17		20		17	
	Repeat accuracy	Ps average	± arc sec	2							
	Max speed	with standard load*	rpm	90	170	70	105	70	120	40	50
Precision	Radial run-out **	on spindle ø, outside & inside µm	6 / 3								
	Axial run-out **	at spindle end face µm	6 / 3								
	Parallelism **	Dividing axis to base µm/100 mm	10 / 5								

\* Maximum values possible mechanically, mutually dependent; for individual drive motor data, see right side

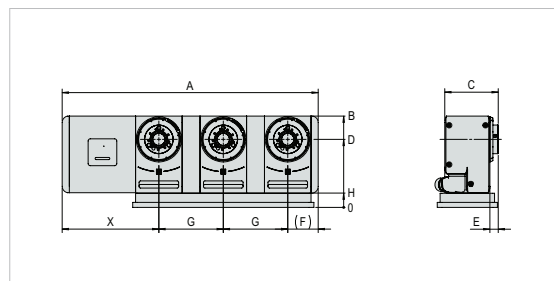
\*\* Standard / increased; for measuring method and validity of the values, please refer to p. 74, for optional angular position measuring systems, please refer to p. 76/77

\*\*\* For torque calculation, please see p. 112

## Dimensions



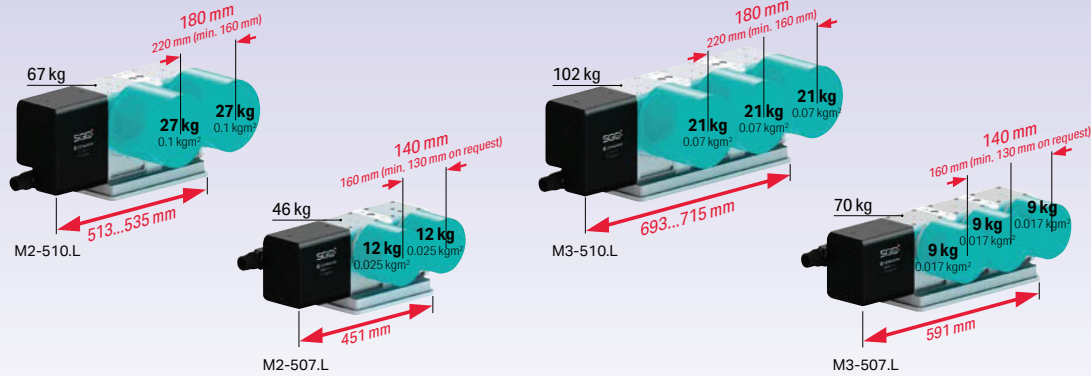
	A	B	C	D	E	F	G	G <sub>min</sub>	H	X
M2-207	451	205	136	150	23	75	140	130	40	236
M2-510	513	255	150	190	23	85	180	160	40	248



	A	B	C	D	E	F	G	G <sub>min</sub>	H	X
M3-507	591	205	136	150	23	75	140	130	40	236
M3-510	693	255	150	190	23	85	180	160	40	248

Dimensions with 508 or 511 identical to 507 and 510.

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## Drive data

(based on standard load cube shown on pp. 110/111)

		Motors	Feed* [Nm]	Speed [rpm]	Cycle time*** [sec]	
					90°	180°
MAVILOR / MOVINOR**	M2-507	BLS-072	120	90	0.32	0.48
	M2-508	BLS-072	70	170	0.27	0.35
	M2-510	BLS-072	190	70	0.32	0.54
	M2-511	BLS-072	140	105	0.25	0.40
	M3-507	BLS-072	120	70	0.34	0.55
	M3-508	BLS-072	70	120	0.27	0.39
FANUC	M3-510	BLS-072	150	40	0.48	0.85
	M3-511	BLS-072	120	50	0.36	0.66
	M2-507	β1 is	65	60	0.37	0.62
	M2-508	β1 is	40	90	0.34	0.50
	M2-510	α2 (HV)is	95	45	0.45	0.78
	M2-511	α2 (HV)is	80	70	0.33	0.55
YASKAWA SGM7J	M3-507	β1 is	30	30	0.57	1.07
	M3-508	β1 is	30	40	0.48	0.86
	M3-510	α2 (HV)is	65	30	0.66	1.16
	M3-511	α2 (HV)is	65	35	0.52	0.95
	M2-507	SGM7J 06	120	65	0.35	0.58
	M2-508	SGM7J 06	70	120	0.23	0.36
YASKAWA SGMJV	M2-510	SGM7J 08	145	50	0.40	0.70
	M2-511	SGM7J 08	110	90	0.28	0.45
	M3-507	SGM7J 06	120	50	0.39	0.69
	M3-508	SGM7J 06	70	95	0.28	0.43
	M3-510	SGM7J 08	105	35	0.54	0.97
	M3-511	SGM7J 08	85	60	0.38	0.63
MITSUBISHI	M2-507	SGMJV 04	85	50	0.41	0.71
	M2-508	SGMJV 04	65	85	0.31	0.49
	M2-510	SGMJV 08	145	50	0.40	0.70
	M2-511	SGMJV 08	110	90	0.28	0.45
	M3-507	SGMJV 04	60	35	0.54	0.97
	M3-508	SGMJV 04	50	55	0.39	0.66
SANYO	M3-510	SGMJV 08	105	35	0.54	0.97
	M3-511	SGMJV 08	85	60	0.38	0.63
	M2-507	HG56	100	40	0.43	0.81
	M2-508	HG56	70	80	0.29	0.48
	M2-510	HG-(H)75	135	45	0.40	0.73
	M2-511	HG-(H)75	100	80	0.30	0.49
SIEMENS	M3-507	HG56	75	35	0.48	0.91
	M3-508	HG56	65	65	0.37	0.60
	M3-510	HG-(H)75	95	25	0.64	1.24
	M3-511	HG-(H)75	80	35	0.48	0.91
	M2-507	R2Ax 06040	95	55	0.37	0.64
	M2-508	R2Ax 06040	70	100	0.30	0.45
SIEMENS	M2-510	R2Ax 08075	145	50	0.39	0.69
	M2-511	R2Ax 08075	135	90	0.28	0.45
	M3-507	R2Ax 06040	70	40	0.48	0.85
	M3-508	R2Ax 06040	60	65	0.35	0.58
	M3-510	R2Ax 08075	110	35	0.54	0.97
	M3-511	R2Ax 08075	120	60	0.35	0.60
SIEMENS	M2-510	1FK2204	110	50	0.42	0.72
	M2-511	1FK2204	85	90	0.28	0.45
	M3-510	1FK2204	70	35	0.57	1.00
	M3-511	1FK2204	65	55	0.41	0.68

\* at 1 rpm; for more, please refer to p. 116

\*\* for Siemens / Heidenhain

\*\*\* without clamping; for times, please refer to p. 130

For calculation of load, forces and torques, please see p. 112

## 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](http://www.lehmann-rotary-tables.com), under Download / Commissioning



Labyrinth seal (cutaway view)

Recommended for:

- Grinding operations
- High coolant pressures
- Extremely fine abrasive particles

## Accessories

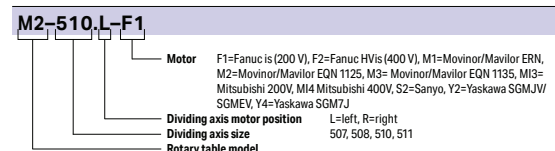
Motor, cable, angular position measuring system and pL CNC starting at p. 76. Accessories starting at p. 68

## Options

Item no.	Description
<b>GEO.5xx-GEN</b>	Incr. geometric precision, 1/2 standard tolerance
<b>SPI.5xx-Lab-x2</b> <sup>1)</sup>	Spindle seal with labyrinth, integrated sealing air pressure control
<b>SPI.5xx-Lab-x3</b> <sup>1)</sup>	Spindle seal with labyrinth, integrated sealing air pressure control

<sup>1)</sup> 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)

## Item no.



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