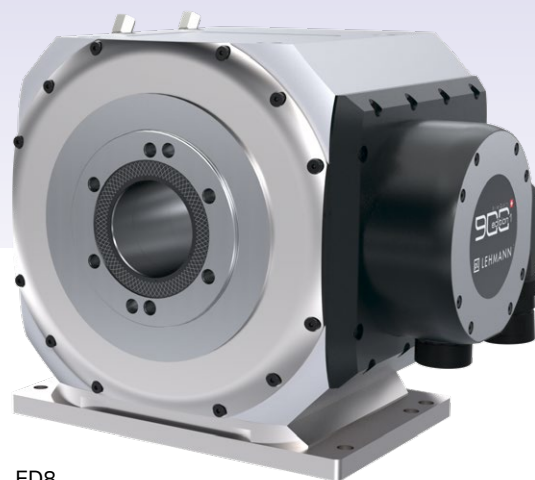


ED3...ED8



ED3...ED5
(identical)



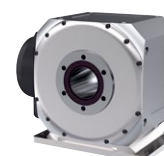
ED8

General technical data

			low speed			
			ED5-280-A	ED3-280-B	ED5-280-B	ED8-280-B
Weight		kg	79	76	79	97
Spindle through-bore		mm	64			
Clamping torque at max. 5 bar air pressure		Nm	max. 800			
Spindle load (max. permissible)	without support	kg	100			120
	with support		200			240
Axial force (max. permissible)		kN	20			
Pull-out torque	clamped	Nm	1,000			1,200
	unclamped		400			500
Moment of inertia	Standard load	kgm²	0.2	0.07	0.2	0.5
	J max		2*	0.7*	2*	5*
Positioning accuracy +/- (unloaded)	Fanuc	± arc sec	9	8		
	Heidenhain		9	12		
	Siemens 1-head		9	20		
	Siemens 2-head		–	5		
	Mitsubishi		on request	20		
Repeat accuracy +/- (unloaded)		± arc sec	1			
Cycle time with standard load (without clamping)	90°	sec	0.24	0.19	0.24	0.24
	180°		0.3	0.24	0.3	0.3
Radial run-out	on spindle ø	µm	6 / 3			
Axial run-out	on spindle end face	µm	6 / 3			
Parallelism	Rotary axis to support surface	µm/100mm	10 / 5			

* Speed reduction required

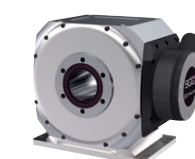
Outgoing cable unit variants



Outgoing cable unit left

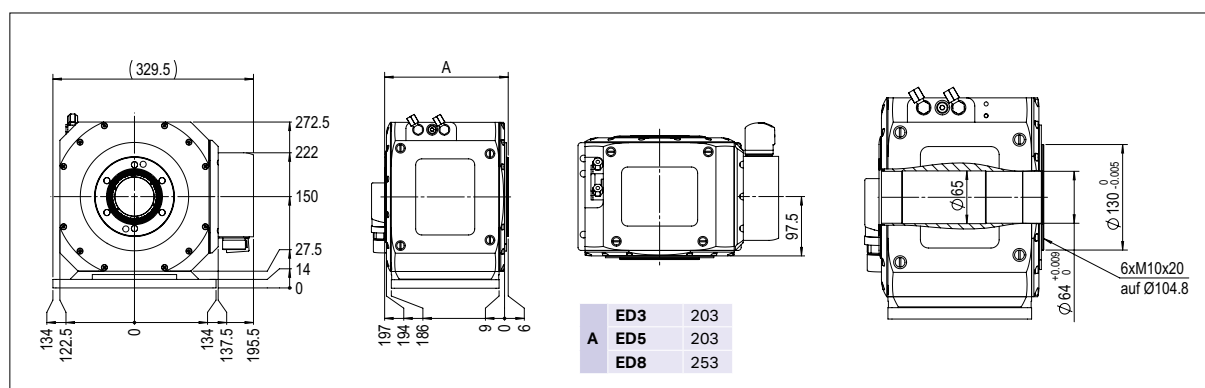


Outgoing cable unit top



Outgoing cable right

Can be easily converted by the customer at any time.



Features

- Direct measuring system up to +/- 5 arc sec.
- Fail-safe clamping
- Leaktight IP 67
- High-speed up to max. 3300 rpm



Operating parameter reference values

The 900 series rotary tables are the ideal solution for workpiece sizes of up to approx. 100 mm dia. × 100 mm long and when turning operations account for 30% of the overall machining process.

Motor data also applies to dividing/indexing axis on T-type rotary tables **p. 26–29**

Calculated, theoretical values; subject to change.

Wet-machining

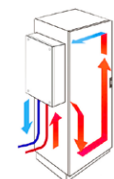


Splash-water cooling – no cooling unit required
(immersed in coolant, cooling emulsion max. 30 °C)

Dry machining



Water cooling – cooling unit required ³⁾
(required if splash water cooling is not sufficient)



Cooling unit not
included in supply
(see p. 40)

		Rotary table type	Motor ⁷⁾	peak current ²⁾	max speed ⁴⁾	peak torque	intermittent torque	continous torque	standstill torque	max speed ⁴⁾ with flux weakening ¹⁾
						ED5%	ED40%	ED100%		
				[Arms]	[min ⁻¹]		[Nm]			[min ⁻¹]
200V ⁵⁾	standard speed	ED5-A	MOT.HW-D	27.7	400	121		51	41	
		ED3-B	MOT.HW-A (MOT.ET-A)	57 (70)	2200 (2170)	73 (67)	46 (38)	32 (26)	25 (20)	(3030)
		ED5-B	MOT.HW-B (MOT.ET-B)	57 (67)	1300 (1300)	123 (117)	80 (70)	55 (48)	44 (37)	(2070)
		ED8-B	MOT.HW-C (MOT.ET-C)	57 (63)	600 (651)	240 (234)	181 (147)	125 (101)	124 (77)	(1120)
400V ⁶⁾	standard speed	ED5-A	MOT.HW-D	27.7	400	121		51	41	
		ED3-B	MOT.HW-A (MOT.ET-A)	57 (70)	4200 (3210)	73 (67)	46 (38)	32 (26)	25 (20)	(3210)
		ED5-B	MOT.HW-B (MOT.ET-B)	57 (67)	2600 (2560)	123 (117)	80 (70)	55 (48)	44 (37)	(2770)
		ED8-B	MOT.HW-C (MOT.ET-C)	57 (63)	1200 (1300)	240 (234)	181 (147)	125 (101)	124 (77)	(1850)

¹⁾ not included in the pL delivery. Currently no data available for hardware.

²⁾ The servo booster must provide at least this peak current to achieve the values stated in the table

³⁾ Recommended for use with a cooling unit (see p. 40):

- approx. 1'600 W rated cooling capacity and at least 1'300 W actual cooling capacity
- Coolant: water-like, non-corrosive

⁴⁾ Applies to moment of inertia of 1/2 the standard load. Maximum speed means max. idle speed. These speeds can never be used productively because torque 0 is available here. For Fanuc, a max. of 3000 rpm is possible.

⁵⁾ min. 300 VDC intermediate circuit voltage

⁶⁾ min. 600 VDC intermediate circuit voltage. If low intermediate voltages are reached (e.g. 400 VAC, uncontrolled 565 VDC), the max. speed must be reduced.

⁷⁾ Motorization is confirmed whenever placing an order

For performance diagrams, see p. 60

Item no.

