



RASOMA



# VERTICAL-TURNING-CENTERS DZS SERIES

## ➤ FIELDS OF APPLICATION AND USE

The compact vertical CNC turning centers DZS of the brand RASOMA in upright design stand for highest flexibility in turning especially disk- and ball-shaped components with minimum space requirement. The centers are available in 4 sizes, single-spindle, double-spindle, with two independent cross slides as well as with or without additional machining units for high-performance milling, grinding, engraving and other processes. In this way, different machining operations (e.g. drilling and milling) can be carried out in parallel by means of process combinations within one machine. Workpieces with a max. swing diameter between 280mm and 580mm can be efficiently machined with high stability and shortest non-productive times.

### Examples of application:

- Highly efficient machining of complex series parts, e.g. chuck parts, flanges, bushings.
- High-quality production of balls and rolling elements

## ➤ TECHNICAL HIGHLIGHTS

- Compact design with small footprint
- High thermal stability, process capability and machine availability
- Efficient complete machining with only 1 sec. turret indexing time
- Minimal auxiliary times due to highly dynamic machine with high rapid traverse speeds in the X-axis
- Optional hydraulic weight compensation in the vertical axis
- Integrated measuring units & process monitoring
- Flexible and customized machining units & automation solutions
- Extremely short workpiece loading
- Workpiece dimensions: Ø max. 580mm / height max. 400mm



## MACHINE SPECIFICATION

Technical Data		DZS 125 / DZS 200	DZS 250 / DZS 315	DZS 500
One spindle / Two spindles		ja	ja	ja
Suitable for process combination		ja	ja	ja
Working area				
Swing diameter	mm	320	440	580
Chuck Ø, standard	mm	125 / 210	250 / 315	400
X-axis (horizontal)	mm	720 / 1.520 / 2.320	720 / 1.520 / 2.320	720 / 1.520 / 2.320
Y-axis (vertical)	mm	300	400	600
Z-axis (optional)	mm	+/- 40	+/- 60	+/- 80
Feed Drives				
Ball screw Ø X	mm	Linearantrieb	40 (Linearantrieb)	50 (Linearantrieb)
Ball screw Ø Z	mm	32	50	60
Rapid feed x-axis	m/min	80	70 (100)	60 (80)
Rapid feed z-axis	m/min	60	45	40
Motor spindle (direct drive)				
Spindle head with short cone	Gr.	A5 / A6	A6 (A8)	A11
Drive power, 100% duty	kW	25,8 / 31	28,3 / 49	64
Torque, 100% duty	Nm	60 / 130	300 / 585	700
Maxi. speed	U/min	4000 / 3500	3.500	3.000
Diameter in front bearing	mm	90	120	180
CNC-Controls		SIEMENS	SIEMENS	SIEMENS
Type		Sinumerik ONE	Sinumerik ONE	Sinumerik ONE
Tool carrier				
Star turret	Places	12	12	12
Driven tools		optional	optional	optional
Cylindrical shank holder	mm	30	40 (50)	50
Add. block tools possible		ja	ja	ja
Separate tool spindle possible		ja	ja	ja
Weight CA.	kg	6.500...10.000 / 6.700...10.400	12.000...15.000 / 12.300...15.600	20.100...24.000