



In addition to our vertical turning centers of the series DS and DZS for disc-type parts which are produced for many years, now is a powerful turning center for shaft-type parts available: our newly developed DWS 250-4/600

RASOMA
Werkzeugmaschinen GmbH

since 1919

WITH TRADITION IN THE FUTURE

RASOMA Vertical-shaft turning center DWS 250-4



RASOMA Vertical-shaft turning center DWS 250-4 with automated supply and removal of work piece



Generous and easily accessible work area

Concept

- Two independently controlled compound slides allow the simultaneous processing of shaft-type work pieces up to ca. 600 mm in length with two tools (depending on clamping device and clamping principle).
- The firmly mounted headstock and moveable tailstock with fixed center ensure high stability during the processing.
- The programmable tailstock force allows flexible sensitivity, so that face driver-applications as well as thin shafts can be machined perfectly.
- Process automation can be realized in many ways, for example with our very economic, proven machine integrated and highly flexible RASOMA articulating gantry loader.
- The working area is characterized by excellent accessibility to the tool turrets, the motor spindle and the tailstock, as well as by prolem-free chip flow along the 90°-bed edge into the chip conveyor.
- To achieve better damping characteristics, multiple ribbed monoblock-machine base is filled with either more or less polymer concrete, depending on the machining application.

Please visit our website. You will find the video for 4-axis-shafts machining on the machine DWS 250-4.

Technical data

		DWS 250-4/600
Machining area		
Work piece \varnothing max.	mm	200
Work piece length max.	mm	approx. 600
Travel path X1/X2-axis (horizontal)	mm	400
Travel path Z1/Z2-axis (vertical)	mm	800
Feed drives		
Ball screw \varnothing , X1/X2	mm	50/50
Ball screw \varnothing , Z1/Z2	mm	50/50
Rapid traverse X-axis	m/min	60
Rapid traverse Z-axis	m/min	60
Headstock		
Principle		fixed
Motor spindle in headstock		
Nominal power (100%)	kW	28.3
Rated load torque (100%)	Nm	300
Nominal speed	U/min	900
Speed, max.	U/min	3,500, optional 5,000
Spindle head with short taper	size	A6
Diameter in front bearing	mm	120
Reitstock		
Principle		moveable
Quill		fixed
Pressing force		programmable
Control		
Manufacturer		SIEMENS
Type		Si 840 D solution line
Tool holder		
Principle		2 x star turret, SW400
Tool holder		2 x VDI 40, optional Capto C4 and KM40
Places		2 x 12
Driven tools, optional		2 x 12
Weight		
approx.	kg	21,000 (with gantry)



Machine-integrated RASOMA-articulating gantry loader and measuring station



Principle of loading and unloading of shaft-type work pieces with machine-integrated RASOMA-articulated gantry loader

Range of products and services of RASOMA

- Machine tools
- Special-purpose machines
- Automation solutions
- Services (consultancy, technology, customer service, maintenance etc.)



RASOMA manufacturing center FZS 3200 for end processing and oil drilling processing of crankshaft etc.



RASOMA end machining center EBZ 400-4500 for shaft-type work pieces up to 4,500 mm in length



RASOMA vertical-turning-grinding center DZS 250-2

Selected references in alphabetic order

Anji Precision, CN
 Asia Nama, IR
 BMW, DE
 Buderus Guss, DE
 CMV, IT
 Continental, DE
 Cotarko, DE
 Daimler, DE
 Daimler, US
 Eifelwerk Gruppe, DE
 EMAG, DE
 Federal Mogul, DE
 Ford Aquitaine, FR
 Ford, UK
 Ford Otosan, TR
 Freudenberg, DE
 General Motors, US
 GKN, DE
 HAY, DE
 Helwan Diesel, EG
 IFA Rotorion, DE
 Kavosh, IR
 KOKI Technik, DE
 Kordel, DE
 KmB Technologie, DE
 Küpper, DE
 KTR Kupplungstechnik, DE
 Lakshmi, IN
 Linamar, DE
 Mahle, DE
 MAN Ferrostahl, DE
 Mannesmannrohr, DE
 MTS Traktorenwerk Minsk, BY
 NZWL Neue Zahnradwerk Leipzig, DE
 NILES Simmons, DE
 Opel, DE
 Orsk Machine Building, RU
 Reintjes, DE
 SEW, FR
 SHW, DE
 UKM, DE
 Visteon, US
 Volkswagen, DE
 VTF Group, CH
 VTZ Volszhky, RU
 Wildauer Schmiedewerk, DE

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