

Horizontal-

End- Machining Centres EBZ

Technical data

	EBZ 60 - 500/900	EBZ 250 - 1000/1500/2500	EBZ 400 - 4500
Machining range			
Work piece length, max., approx. mm	...900	...2,500	...4,500 (longer lengths on request)
Work piece Ø, max., approx. mm	...60	...250	...400
Swing Ø mm	125	...300	500
Feed drives			
Rapid trasvers X-axis m/min	30	40	30
Rapid trasvers Y/W-axis m/min	30	40	40
Rapid trasvers Z-axis m/min	60	60	50
Main drive			
Principle	AC-Servomotor	AC-Servomotor	AC-Servomotor
Nominal power 100% duty cycle kW	8	34	52
Intermediate gear	i = 1	./.	i = 3
Torque 100% duty cycle Nm	50	108	1,000
Maximum speed rpm U/min	9,000	3,000	1,500
Control system			
Type	SIEMENS Si 840 D solutionline	SIEMENS Si 840 D solutionline	SIEMENS Si 840 D solutionline
Tool carrier			
Number/ priciple	2 / crown-type turrets	2 / magazines	2 / magazines
Number of fixtures	2 x 6 optional 2 x 8	2 x 8 optional up to 2 x 24	2 x 8
Tool holder	HSK50 or HSK63	HSK63 or HSK100 or SK50	HSK100 or SK50
Weight			
approx. kg	...12,000	...14,500	25,000

Range of products and services of RASOMA

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



RASOMA vertical turning centre DZS 250

Selected references in alphabetic order

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

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INNOVATION FROM TRADITION FOR OVER 90 YEARS

Concept

Workpiece lengths of up to 500 mm:

- Self-loading machine (pick-up principle)
- Easy and low-cost automation possible
- May be integrated into existing machine systems

Workpiece lengths of up to 4,500 mm:

- Modular machine concept comprising multiple parts
- Two 3-axis modules are used to machine the ends independently from each other
- Loading by means of linear gantries, articulated robots, indoor cranes



Rasoma end-machining centre EBZ 60-500 with permanent cycle conveyor for raw and finish parts



Rasoma end-machining centre EBZ 250-2500



8-fold tool carrier on a three-axis module with spindle and face milling cutter of EBZ 250-1000



6-fold crown turret of EBZ 250-1000 for machining of crankshafts



One motor spindle each for simultaneous machining of LH and RH side of the part

Options

Varied optional devices for optimal adaptation:

- Various tool carrier systems and magazines
- Selectable tool holders
- Tool breakage control
- Minimal quantity lubrication or cooling lubrication system with band filter, also as optional high pressure version up to 90 bar
- Tool and process monitoring
- Customized automation components
- Measuring sensors
- Workpiece-specific collet chuck
- U-axis

Advantages

Short machining and auxiliary process times:

- Rapid traverse rates of up to 60 m/min of all axes
- Simultaneous machining, thereby ideally halving of machining times
- Revolver indexing time < 1 sec

High flexibility:

- Tailored to the manufacturing job to be handled
- One-stop solutions for machines, loading devices and automation components, i.e. gripping assemblies, magazines etc., starting from the idea via design up to fabrication



EBZ 60-900 with feed and discharge conveyor for work pieces through the center of the machine



Measuring sensor on the transition belt for determining the point of origin in blanks



Loading and unloading of EBZ 250-1000 by the RASOMA linear gantry system with vertical axis and long stroke gripper with 36° module



EBZ 400-4500 for machining undulated parts of up to 4,500 mm in length



Insert a big crankshaft into EBZ 400

Implemented technology solutions

