

## Range of products and services of RASOMA

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



EBZ 400-4500 for end- machining large crankshaft of up to 4,500 mm in length



RASOMA double spindle-machining center DSP 450-2 e. g. for perforating braking discs



## Selected references in alphabetic order

Alfing, DE  
 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 HAY, DE  
 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

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since 1919

**RASOMA**  
 Werkzeugmaschinen GmbH

Innovation from tradition for over 90 years.

CNC manufacturing centers FZS



Our newly developed modular constructed CNC manufacturing center FZS 3200 is especially qualified for processing oil drilling and weight reducing holes of crankshafts or similar undulated parts of up to 1,150 mm in length

## Technical data

	FZS 2400	FZS 3200
Traverse range X, mm	1,520	2,320
Travel path Z, mm	600	600
Travel path Y, mm	500	500
Motor power of the machining spindle, kW, s1	16	16
Torgue, Nm	40	40
Rated speed, U/min	4,500	4,500
Rotational speed range, U/min	0...6,000	0...6,000
Tool holder	HSK 63	HSK 63
Width, without automation, without chip conveyor, mm	3,200	4,000
Depth, mm	2,950	2,950
Hight, mm	3,270	3,270
Weight of the basic machine, kg	14,000...16,000	15,500...17,500



Minimal quantity lubrication causes optimal cutting values during deep hole drilling and is decisive for a high productivity. In addition, it fulfills cost saving in comparison to the classical application of high pressure cooling lubricant systems



The base frame of the machine with longitudinal slide on three linear guides, cross slide for suspended, pivoting tool spindle. Below the Y-slide with bolting surface for the clamping device



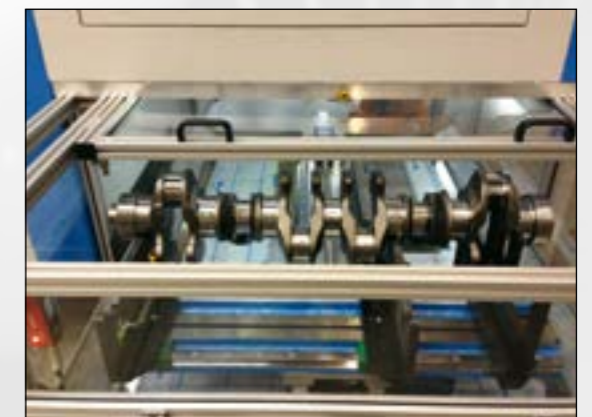
Infinitely tilting tool spindle and clamping device with turning module and C-axis, movable tailstock and programmable steady rest in support of processing prolonged crankshafts



Tool magazine for 12 tools



Cooling device and chip conveyor



Slides of raw and finish parts for feeding and removal of the work pieces