

Special

purpose Machines

Further implemented technology solutions



Range of products and services of RASOMA

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



RASOMA double-spindle vertical turning centre DZS 250-2



RASOMA end-machining centres EBZ 250x1000

Selected references for RASOMA

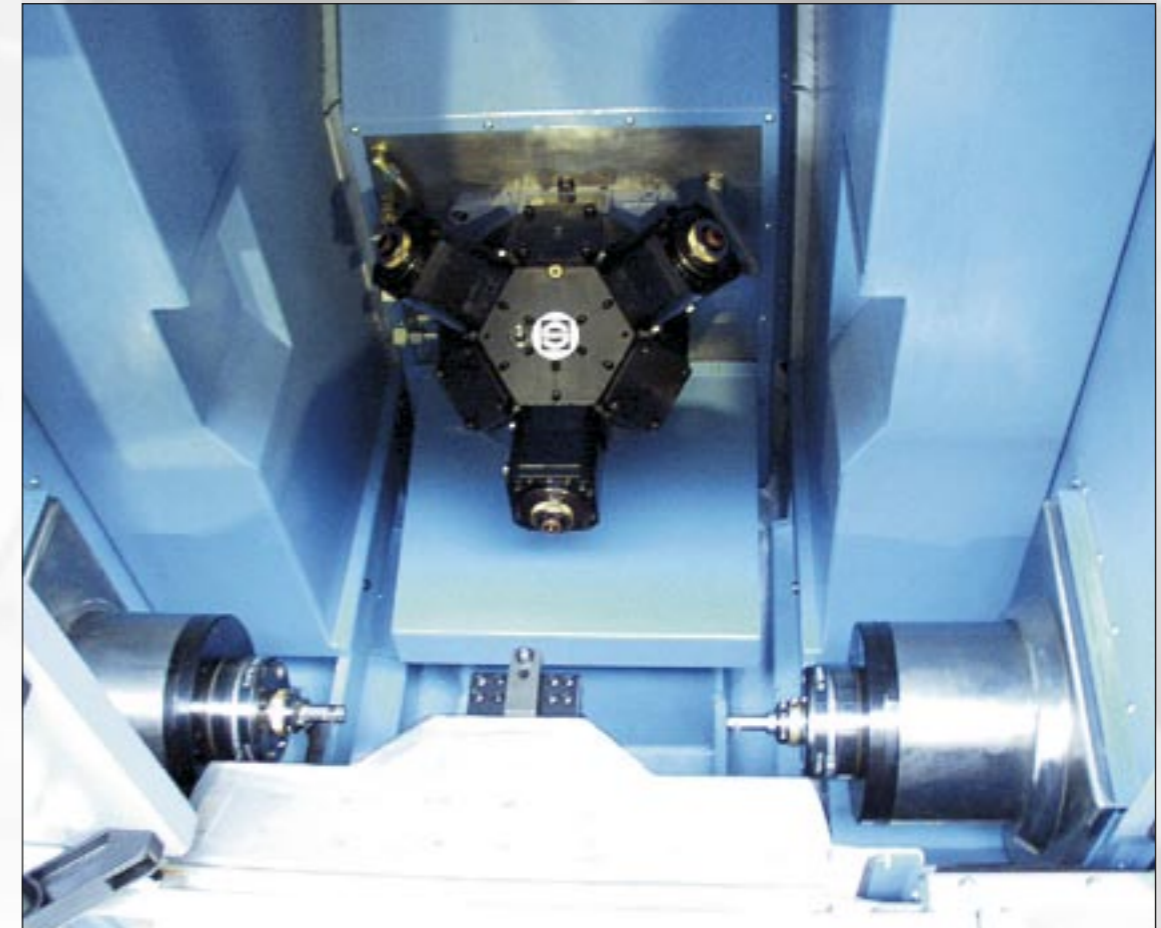
AD Steel Forge, D
Anji Precision, China
BMW, D
Buderus Guß, D
CMV, I
Continental, D
Daimler, D
Daimler, USA
Eifelwerk Gruppe, D
Federal Mogul, D
First Aquitaine (Ford), F
Ford, GB
Fräger, D
Freudenberg, D
General Motors, USA
KOKI Technik, D
Kordel, D
KmB Technologie, D
Küpper, D
Lakshmi, Indien
Linamar, D
Mahle, D
MAN Ferrostahl, D
Mannesmannrohr, D
MTS Minsk, BY
Neumayer Tekfor, D
NILES Simmons, D
Opel, D
Orsk Machine Building, RUS
Visteon, USA
Volkswagen, D
VTF Group, CH

RASOMA

Werkzeugmaschinen GmbH

Alexanderstraße 6
D-04720 Döbeln

www.rasoma.de



since 1919

RASOMA

Werkzeugmaschinen GmbH

We offer solutions:

Machinery and technology.
Not only for the automotive industry!

Implemented solutions Special-Purpose Machines

Automation technology



Special-purpose machine for machining of 2 balancing bores Ø20 on motorcycle crankshafts and for spot-facing without any extension of cycle time

Cycle time: 49 seconds



Special-purpose machine for machining inner chamfer of piston rings

- automatic feeding, clamping, machining, removal
- high accuracy requirements

Cycle time: 6 seconds



System for complete manufacturing of sintered plastic sealing rings for steering gear

- incl. forcing out of sintered mandrels
- incl. strain test
- incl. sorting parts into OK and NOK parts and PLC parts

Cycle time: 34 sealing rings in 60 seconds



Double-spindle special-purpose machine DSP 450-2

Machining example - brake disks:

Position-oriented perforation of ventilated brake disks offering the following advantages:

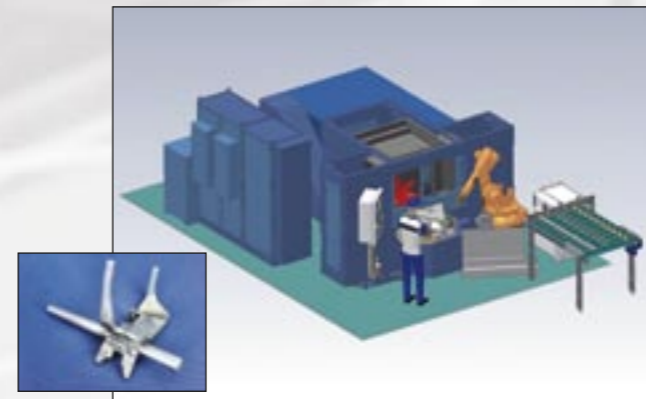
- Automatic identification of different brake disks with different hole patterns
- Automatic turning of brake disk
- Identification of ventilation ribs
- No multi-spindle boring tool-holders required
- Tool wear and breakage monitoring

Cycle time: 49 seconds for 110 holes

Machining example - cone bearing rings:

- Face turning and 12x drilling/threading M18x1.5 in large cone bearing rings
- Automatic identification and machining of pitch circles Ø100 to Ø170
- Tool wear and tool breakage monitoring

Cycle time: 61 seconds



Special-purpose machine for precise three-side machining of shifter forks for car transmissions

- Production of sets (= 3 pieces)
- Extremely low permissible coaxiality and centre deviation

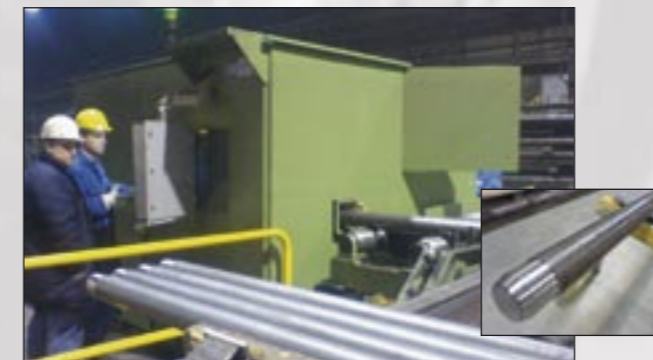
Cycle time: 24 seconds for one set



Special-purpose machine for precise three-side machining of gearchange sleeves for car transmissions

- 2 motor spindles for Ø21N6, chamfer, plane side
- 6-fold crown turret for Ø15.9, backward deburring, Ø16S6 and chamfering

Cycle time: 22 seconds



Special-purpose machine for machining heads of up to 18m long mandrel bars

- Automatic feeding and removal of workpieces
- Robust design suited for use in rolling mills



Special-purpose machine for machining of CNG cylinder necks

- Cylinder dimensions up to Ø400 and 2,500mm in length
- Cutting the length, core-hole boring, plain milling, outside and inside Ø, thread milling

Cycle time: <60 seconds

A machine is normally comprised of

- Three machining stations
- Gantry loader with two vertical units
- Turning station with integrated vacuum cleaning system
- Hydraulic clamping station
- Chip conveyor
- CNC control Siemens 840D



Special purpose machine for machining of driving rings and joint shafts

Machining example driving ring:

cycle time for drilling, fine drilling and turning of security ring grooves:

85 seconds