

Typical machines for education facilities

Overview from Germany,
information on further machines on request

Status 09/2009



Vertical machining center Alecop ODISEA

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Compact milling machine for education
- Axis travel X, Y, Z 200 mm
- Spindle power 1.5 kW
- Speed 100 – 4,000 rpm
- Tool magazine with 8 stations

Control and drives

- Sinumerik 840Di solution line, ShopMill, 10.4" TFT color monitor, PCU50

Contact information

- ALECOP S. Coop.
Loramendi, 11
20500 Mondragón (Gipuzkoa), Spain



Homepage: www.alecop.es

Vertical machining center Alzmetall CS600

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Robust machine design in cast-iron construction
- Axis travel X 600 mm, Y 400 mm, Z 600 mm
- Ideally suitable for extension into a 5-axis machining center
- Options such as 40 tool stations, spindle speed 13,000 rpm, 3D probe

Control and drives

- E.g. Sinumerik 840D, ShopMill, 15" TFT color monitor, PCU50

Contact information

- ALZMETALL GmbH & Co KG
Harald-Friedrich-Straße 2-8
83352 Altenmarkt, Germany



Homepage: www.alzmetall.com

Vertical machining center AXA VSC 3-XTS

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Vertical Compact Center in travelling column type design
- Axis travel X 720 mm, Y 520 mm, Z 600 mm
- Good accessibility of the machining room
- Options such as spindle speed 15,000 rpm, 3D probe and NC-rotary table for multi-face machining

Control and drives

- Sinumerik 840D, ShopMill, 15" TFT color monitor, PCU50

Contact information

- AXA Entwicklungs- und Maschinenbau GmbH
Münsterstraße 57
48624 Schöppingen, Germany



Homepage: www.axa-maschinenbau.de

Vertical machining center Chiron FZ 15K S five axis

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Axis travel X 550 mm, Y 400 mm, Z 360 mm, optional up to X 730 mm and Z 425 mm
- Spindle speed 10,500 rpm, optional 12,000 rpm or 20,000 rpm
- Number of tools 48, tool change time 0.9 sec.
- Options such as NC rotary table, coolant through spindle up to 70 bar, 3D measuring system

Control and drives

- Sinumerik 840D, ShopMill, 10.4" TFT color monitor, PCU50

Contact information

- CHIRON-WERKE GmbH & Co. KG
Kreuzstraße 75, 78532 Tuttlingen, Germany

chiron



Homepage: www.chiron.de

Vertical machining center Fryer MC-10

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- 20 station double arm type tool changer
- Travels: 30" x 18" x 22"
- 1,200 IPM rapids
- 25 HP - 40 taper
- 60 - 8,500 RPM
- Rugged box way construction
- Hand built precision +/- .0002" entire travel

Control and drives

- Sinumerik 840D solution line, Fryer JobShop Interface, 15" TFT touch screen color monitor

Contact information

- Fryer Machine Systems, Inc.
70 Jon Barrett Road
Patterson, NY 12563, USA



Homepage: www.fryermachine.de

Vertical machining center Deckel Maho DMU 50 / DMU 70

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Excellent accessibility of the machining room. Large machining room within small machine dimensions
- Variable table options: from fixed table up to swivel-rotary table with digital drives for automatic 5-axis machining

Control and drives

- Sinumerik 840D solution line, ShopMill, DMG ERGOline Control with 19" monitor
- Ergonomic, swivel-mounted operator panel

Contact information

- DMG Trainings-Akademie GmbH
Gildemeisterstraße 60, 33689 Bielefeld, Germany
Mr. Henning Dück, Tel. +49 5205 74-2550
Henning.Dueck@gildemeister.com



Homepage: www.gildemeister.com

Vertical machining center EMCOMILL E900

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

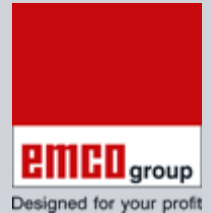
- Axis travel X 900 mm, Y 500 mm, Z 500 mm
- Tool magazine with 20 stations, optional 30, with fast twin-arm changer
- Powerful, direct-driven milling spindle
- Spindle motor power 13 kW with 83 Nm (S6)
- Speed 10,000 rpm, optional: 15,000 rpm

Control and drives

- Sinumerik 810D, ShopMill, 10.4" TFT color monitor, PCU20

Contact information

- EMCO Maier GmbH
Salzburger Straße 80
5400 Hallein-Taxach, Austria



Homepage: www.emco-world.com

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Industry Sector

Vertical machining center Equiptop EMV 1200

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Axis travel X 1200 mm, Y 630 mm, Z 600 mm
- Spindle speed from 9,000 to 18,000 rpm, 11 / 15 kW drive power
- Several options such as 4th axis, 5th axis, linear scales, coolant through spindle, 32 tools, ZF gearbox
- Also available in larger or smaller sizes

Control and drives

- Sinumerik 810D or 840D, ShopMill, 10.4" TFT color monitor, PCU20 / PCU50

Contact information (Dealer for Germany)

- Grauer & Karsten GmbH & Co. KG
Junkersstr. 28
78056 Villingen-Schwenningen, Germany



Homepage: www.grauer-karsten.de

Vertical machining center Hedelius C 60

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- The product range covers 3-, 4- and 5-axis machining centers
- Axis travel X, Y, Z:
from 900 x 510 x 480 mm
up to 6,500 x 1,200 x 770 mm
- Equipped with direct measuring systems,
coolant through spindle and powerful
main spindles

Control and drives

- Sinumerik 840D, ShopMill,
15" TFT color monitor, PCU50

Contact information

- Hedelius Maschinenfabrik GmbH
Sandstr. 11, 49716 Meppen, Germany



Homepage: www.hedelius.de

Vertical machining center Hermle C 30 U dynamic

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Modified gantry construction made of mineral composite material
- Axis travel X 650 mm, Y 600 mm, Z 500 mm
- Spindle speed 10,000, 18,000, 28,000 or 40,000 rpm
- For highly-dynamic and very precise 5-axis machining

Control and drives

- Sinumerik 840D, ShopMill, 15" TFT color monitor, PCU50

Contact information

- Maschinenfabrik Berthold Hermle AG
78556 Gosheim, Germany



Homepage: www.hermle.de

Vertical machining center Kunzmann BA 800

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Elaborately ribbed cast-iron construction
- Axis travel X 820 mm, Y 620 mm, Z 610 mm
- Spindle speed 8,000 rpm, optional 12,000 rpm
- Large Z-axis travel, useful in combination with the 4th axis or for high workpieces
- Movable operator panel facilitates set-up of the machine

Control and drives

- Sinumerik 840D, ShopMill,
15" TFT color monitor, PCU50

Contact information

- Kunzmann Maschinenbau GmbH
Tullastraße 29 – 31
75196 Remchingen-Nöttingen, Germany

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FRÄSMASCHINEN



Homepage: www.kunzmann-fraesmaschinen.de

Vertical machining center Saeilo Contur MMV-600 S

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Axis travel X 600 mm, Y 410 mm, Z 500 mm
- Spindle speed 8,000 rpm
- Main spindle power 13 kW (40% ED)
- Number of tools 20, optional 24
- Stages of extension: Spindle speed 10,000, resp. 12,000 rpm, 4th or 4th/5th axis, coolant through spindle

Control and drives

- Sinumerik 810D or 840D, ShopMill, 10.4" TFT color monitor, PCU20 / PCU50

Contact information (Dealer for Germany)

- SAEILO Deutschland GmbH
Hauptstraße 68
35585 Wetzlar-Blasbach, Germany



Homepage: www.saeilo.de

Vertical machining center Spinner U-620

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- The SPINNER U-range is available in 3-, 4- or 5-axis version
- Axis travel X 620 mm, Y 520 mm, Z 460 mm
- 32 tools, chip conveyor, spindle speed 12,000 rpm and 48 m/min rapid travel already as standard
- Only ~2.6 x 2.3 meter foot print and optimal view into the machining room

Control and drives

- Sinumerik 840D solution line, ShopMill, 15" TFT color monitor, TCU

Contact information

- SPINNER Werkzeugmaschinenfabrik GmbH
Rudolf-Diesel-Ring 24
82054 Sauerlach, Germany



Homepage: www.spinner.eu.com, www.cnc-instruction.com

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Industry Sector

Vertical machining center Unverzagt UVA 725 / UVA 550

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Axis travel X 725 mm X 550 mm
 Y 460 mm Y 380 mm
 Z 460 mm Z 380 mm
- Main spindle 10 kW/60 Nm, “plus” series: 13,5 kW/100 Nm
- Spindle speed 8,000 rpm, “plus” series: 10,000 rpm
- Tools 20 16
- Optional 24 tools, 4th axis, 3D probe, tool probe, coolant through spindle 20 bar

Control and drives

- Sinumerik 810D, ShopMill, 10.4” TFT color monitor, PCU20

Contact information (Dealer for Germany)

- Hommel Unverzagt GmbH
Mercedesstr. 15, 71384 Weinstadt, Germany



Homepage: www.hommel-gruppe.de

Vertical machining center Wagner VMC 2033 / VMC 2040

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Axis travel X 850 mm X 1020 mm
 Y 530 mm Y 530 mm
 Z 510 mm Z 510 mm
- Main spindle 9 kW continuous power
- Spindle speed 8,000 rpm, optional 10,000 rpm or 12,000 rpm
- Tool changer with 24 stations
- Optional 32-fold magazine, coolant through spindle, ZF gearbox, 4th axis, 5th axis

Control and drives

- Sinumerik 810D, ShopMill,
10.4" TFT color monitor, PCU20 / PCU50

Contact information

- Maschinen-WAGNER GmbH
Robert-Bosch-Str. 1, 77871 Renchen, Germany



Homepage: www.wagner-maschinen.de

Vertical machining center XYZ VMC 710

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Axis travel X 710 mm, Y 450 mm, Z 500 mm
- Main spindle 7 kW continuous power
- Spindle speed 8,000 rpm, optional 12,000 rpm
- Tool magazine with 24 stations
- Optional contactless tool recognition, 3D probe, coolant through spindle 15 bar, 4th axis, 5th axis

Control and drives

- Sinumerik 810D, ShopMill, 10.4" TFT color monitor, PCU20

Contact information (Dealer for Germany)

- XYZ Machine Tools Ltd.
Schellmengarten 8
725012 Gammertingen, Germany



Homepage: www.xyz-machinetools.de

Lathe Alecop ECLIPSE

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Compact lathe for education
- Swing diameter 230 mm
- Spindle power 1.5 kW
- Spindle speed 100 – 4,000 rpm
- Turret with 8 stations

Control and drives

- Sinumerik 840Di solution line, ShopTurn, 10.4" TFT color monitor, PCU50

Contact information

- ALECOP S. Coop.
Loramendi, 11
20500 Mondragón (Gipuzkoa), Spain



Homepage: www.alecop.es

Cycle-controlled lathe DMT Kern CD 282

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

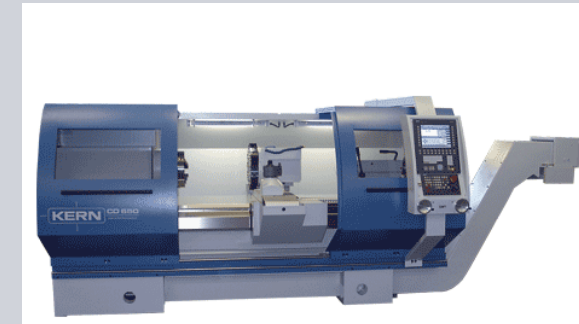
- Swing diameter over bed 280 mm, over slide 140 mm
- Spindle bore 45 mm
- Main spindle motor 11.5 kW
- Spindle speed 1-5,000 rpm
- Turning length 500 mm

Control and drives

- Sinumerik 840D solution line, ShopTurn with Manual Machine, 12" TFT color monitor

Contact information

- DMT Drehmaschinen GmbH & Co. KG
Gewerbestraße 18
79539 Lörrach, Germany



Homepage: www.dmt-kern.de

Lathe EMCO MAXXTURN 45

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

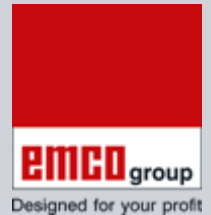
- Complete machining from simple to complex workpieces
- Axis travel X 160 mm, Z 510 mm, Y 70 mm
- Bar capacity Ø45mm, resp. Ø51mm
- Subspindle, Y-axis 45 mm / 51 mm and 12 stations on the turret for driven tools
- Max. speed on both spindles: 6,300 rpm

Control and drives

- Sinumerik 840D, ShopMill, 10.4" TFT color monitor, PCU20

Contact information

- EMCO Maier GmbH
Salzburger Straße 80
5400 Hallein-Taxach, Austria



Homepage: www.emco-world.at

Cycle-controlled lathe FAT TUR 630 MN

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Swing-Ø over bed 630 mm, over slide 370 mm
- Spindle bore 105 mm, optional 140 mm
- Main spindle motor 18.5 kW
- Spindle speed I: 2 -430 rpm, II: 200 – 2,500 rpm
- Turning lengths 1, 2, 3 and 4 m
- Optional with 8-station Sauter turret for driven and non-driven tools

Control and drives

- Sinumerik 840D solution line, ShopTurn with Manual Machine, 10.4“ TFT color monitor

Contact information (General agency for Germany)

- WMS Werkzeugmaschinen
Service & Vertriebs GmbH
Siemensring 98, 47877 Willich, Germany



Homepage: www.wms-werkzeugmaschinen.de

Lathe Fryer ET-21

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Swing over bed 21"
- 60" center distance
- 15 HP - D1-8
- 2 speed autoshift geared headstock
- 20-2000 RPM w/ constant surface speed
- 3.5" spindle bore
- Full guarding with dual sliding doors

Control and drives

- Sinumerik 840D solution line, Fryer JobShop Interface, 15" TFT touch screen color monitor

Contact information

- Fryer Machine Systems, Inc.
70 Jon Barrett Road
Patterson, NY 12563, USA



Homepage: www.fryermachine.com

Lathe GDW 350 CNC

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Max. turning length 400 mm, bar capacity 42 mm, swing diameter 350 mm
- Disc-type tool turret with 8 stations, optional 12
- Driven tools, NC-controlled tailstock
- Main drive 9.5 kW continuous power
- Ergonomic design with fully-opening machining room using two sliding doors

Control and drives

- Sinumerik 840D solution line, ShopTurn with Manual Machine, 10.4" TFT color monitor, NCU 720 with 3 MB user memory

Contact information

- GDW Werkzeugmaschinen GmbH
Ringstrasse 79, 91074 Herzogenaurach, Germany



Homepage: www.gdw-drehen.de

Lathe

Gildemeister CTX alpha / beta / gamma

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Multiple stages of extension from driven tools up to a complex turn-mill center
- Large window for optimal view into the machining room & the machining process

Control and drives

- Sinumerik 840D solution line, ShopTurn, DMG ERGOline Control with 19" monitor
- Ergonomic, swivel-mounted operator panel

Contact information

- DMG Trainings-Akademie GmbH
Gildemeisterstraße 60, 33689 Bielefeld, Germany
Mr. Henning Dück, Tel. +49 5205 74-2550
Henning.Dueck@gildemeister.com



Homepage: www.gildemeister.com

Cycle-controlled lathe Saeilo Contur E-46

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Swing diameter over bed 460 mm
- Max. turning length 800 mm
- 3-step gearbox
- Spindle speed 3,000 rpm
- Max. main spindle power 10 kW
- Stage of extension: VDI-turret with 8 stations

Control and drives

- Sinumerik 810D, ManualTurn,
10.4" TFT color monitor, PCU20

Contact information (Dealer for Germany)

- SAEILO Deutschland GmbH
Hauptstraße 68
35585 Wetzlar-Blasbach, Germany



Homepage: www.saeilo.com

Lathe Seiger SLZ 400 E

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Compact, very ergonomically designed
- Swing diameter 410 mm over bed, maximum turning length 1,000 mm
- Arrangement of the operator elements is similar to a conventional lathe.
- In combination with the control, also complex requirements can be fulfilled.

Control and drives

- Sinumerik 840D solution line, ShopTurn with Manual Machine, 12" TFT color monitor

Contact information

- Willi Seiger GmbH
Rossfeld 70
59557 Lippstadt, Germany



Homepage: www.seiger.com

Lathe Spinner TC600

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Real slant-bed design, cast-iron frame, hardened and grinded, solid box ways, motor spindle and CNC servo turret with 16 stations
- Chuck sizes up to 250 mm, turning length up to 700 mm
- Stages of extension with driven tools, Y-axis, tailstock and subspindle

Control and drives

- Sinumerik 840D solution line, ShopMill, 15" TFT color monitor, TCU

Contact information

- SPINNER Werkzeugmaschinenfabrik GmbH
Rudolf-Diesel-Ring 24
82054 Sauerlach, Germany



Homepage: www.spinner.eu.com, www.cnc-instruction.com

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Industry Sector

Lathe Weiler DZ 40 CNC

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Axis travel X 200 mm, Z 350 mm
- Bar capacity 42 mm
- 16-stations disc-type tool turret with driven tools and NC-tailstock as standard
- Optional Y-axis and subspindle
- Very good accessibility and ergonomics for the operator, as well as compact design

Control and drives

- Sinumerik 840D solution line, ShopTurn, 12" TFT color monitor, full keyboard, NCU 720 with 3 MB user memory

Contact information

- WEILER Werkzeugmaschinen GmbH
Mausdorf 46, 91448 Emskirchen, Germany

 **WEILER**



Homepage: www.weiler.de

Lathe XYZ Compact Turn 52

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Swing diameter over bed 400 mm
- Max. turning diameter 220 mm
- Max. turning length 280 mm
- Spindle speed 5,000 rpm
- Bar capacity 52 mm
- VDI 30 turret with 12 stations

Control and drives

- Sinumerik 810D, ShopTurn,
10.4" TFT color monitor, PCU 20

Contact information

- XYZ Machine Tools Ltd.
Schellmengen 8
725012 Gammertingen, Germany



Homepage: www.xyz-machinetools.de

Vertical machining center Optimum OPTI 100 TC-CNC

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Axis travel X 450 mm, Y 300 mm, Z 400 mm
- All guide-ways with stainless-steel covers
- All main axes with ball-screws
- Automatic tool change system with 10 tool stations
- Electronic hand-wheel reduces the set-up time to a minimum

Control and drives

- Sinumerik 802D solution line Pro, 10.4" TFT color monitor, 3 MB user memory

Contact information

- Optimum Maschinen Germany GmbH
Dr.-Robert-Pfleger-Str. 26
96103 Hallstadt, Germany

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MASCHINEN - GERMANY



Homepage: www.optimum-maschinen.de

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Industry Sector

Vertical machining center TOCK eXpertMill VMC-0600 Plus

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Portable machining center with true industrial CNC controller, weight only 180 kg
- Axis travel X 304 mm, Y 152 mm, Z 241 mm
- Spindle 1kW, ISO 20, speed 6,000 rpm
- Tool changer with 4 locations
- Supply: 1-phase 230 VAC / 16A

Control and drives

- Sinumerik 802D solution line Pro, 10.4" TFT color monitor, 3 MB user memory, Ethernet and USB connection

Contact information

- TOCK-AUTOMATYKA Krzysztof Toczydlowski
ul. ks. abpa E. Ksiela 28
PL 15-384 Bialystok, Poland



Homepage: www.tock.pl

Cycle-controlled lathe Romi C 420

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Max. turning diameter 430 mm, max. turning length 1,000 mm
- Spindle speed 4,000 rpm, main spindle power 7.5 kW
- Heavy, strongly ribbed cast-iron frame in „H-Form“ from own large foundry
- High stiffness, excellent damping

Control and drives

- Sinumerik 802D solution line, 10.4" TFT color monitor, with the option Manual Machine Plus

Contact information (Dealer for Germany)

- Hommel Maschinentechnik GmbH
Josef-Baumann-Str. 23a
44805 Bochum, Germany



Homepage: www.hommel-gruppe.de

Lathe

Saeilo Contur MSL-400

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Max. turning diameter 350 mm, max. turning length 550 mm
- Spindle speed 4,200 rpm, max. main spindle power 25 kW
- Number of tool stations: 12
- Fast servo turret, 45° slant-bed
- Stage of extension: driven tools

Control and drives

- Sinumerik 802D solution line Pro, 10.4" TFT color monitor, 3 MB user memory, Ethernet and USB connection

Contact information (Dealer for Germany)

- SAEILO Deutschland GmbH
Hauptstraße 68
35585 Wetzlar-Blasbach, Germany



Homepage: www.saeilo.de

Lathe TOCK PLT3000 Plus

SIEMENS

ShopMill

ShopTurn

802D sl Milling

802D sl Turning

The machine

- Portable lathe with true industrial CNC controller, weight only 140 kg
- Max. turning-Ø 152 mm, max. length 254 mm
- Spindle motor 1kW, speed 3,600 rpm
- Tool turret 8 positions
- Supply: 1-phase 230 VAC / 16A
- Ready for FMS applications

Control and drives

- Sinumerik 802D solution line Pro, 10.4" TFT color monitor, 3 MB user memory, Ethernet and USB connection

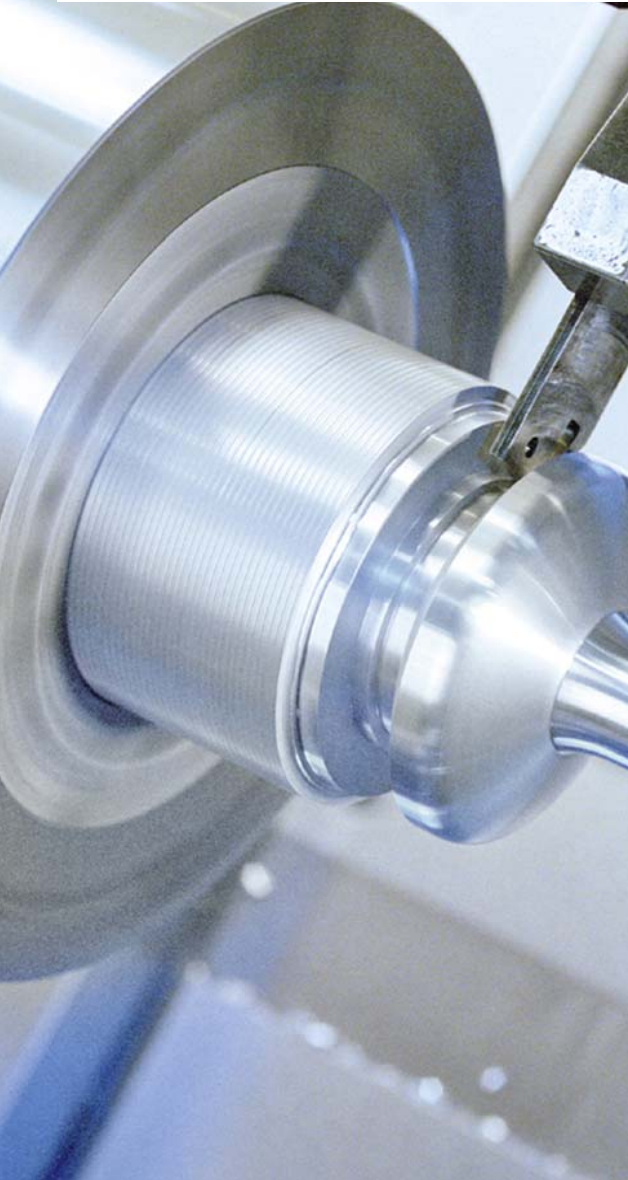
Contact information

- TOCK-AUTOMATYKA Krzysztof Toczydlowski
ul. ks. abpa E. Ksiela 28
PL 15-384 Bialystok, Poland



Homepage: www.tock.pl

Thank you for your attention!



Siemens Industry DT MC MT P2

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91056 Erlangen, Germany