

**DEVELOPEMENT AND DESIGN FOR MACHINE BUILDERS
PTC-CREO | Solid Works**

COMPANY PROFILE

VOGEL TECHNIK GmbH offers a wide range of engineering services focused in the field of mechanical engineering.

Our extensive experience for decades, state of the art CAD-systems and continuing education ensures the quality of our service.

Our current customers are staying in Germany, Australia, Brazil, China, India, Canada ...

Our results are based on quantified engineering principles and analysis – not just opinions.

Confidence is our maxim

We are working with confidence information from our customers and are covered by arrangement of confidentiality.

Therefore it is not possible to promote with pictures. Following you can see several examples of projects. If you are interested please contact us.

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OUR CAD-TOOLS



OUR PERSONNEL

4 mechanical engineers and technicians

OUR WORKSCOPE

Design of:

- ✓ machine tools
- ✓ spezial purpose machines and automation systems
- ✓ gearboxes and transmissions
- ✓ assemblies and parts
- ✓ fixtures and appliances
- ✓ ideas, inventions and patents

- ✓ calculations, varifications, tothing dimensioning
- ✓ dimensioning of NC-axles, main drives, other drives
- ✓ action charts, plans of procederes
- ✓ hydraulics, pneumatics, laying of electrical cables
- ✓ compilation of drawings and other production documents
- ✓ bills of material, and documentation
- ✓ **training on the job** – designers from our customers are working together with us in our office

OUR CUSTOMERS

Our customers reside in Germany, Australia, Brazil, China, India, Canada...

- ✓ machine tools manufacturer
- ✓ special purpose machines and automation systems manufacturer
- ✓ transmission manufacturer
- ✓ service companies
- ✓ retrofit and overhauling companies of machine tools
- ✓ facility management companies and building service engineering

EXAMPLES

Processing

- ✓ Horizontal machining center (Germany)
- ✓ Vertical machining center (Brazil)
- ✓ Horizontal machining center with direct drives (Germany)
- ✓ Tube press equipment machine (tube forming)
- ✓ Gearbox for transport carrier (US-Navy)
- ✓ Vacuum clamping system (wood machining)
- ✓ Drive system for air-transport containers (airport)
- ✓ Polishing machine for Lipskins (Boeing 787)
- ✓ High-speed honing machine (automotive)
- ✓ Tool magazines (machine tools)
- ✓ 7-axis chamfering machine for turbine parts (RollsRoyce)
- ✓ Polishing machine for crankshafts gas motors (General Electric)
- ✓ Honing unit (calculations, selection of versions)
- ✓ Portal-Lathe for railway wheels (Rio Tinto)
- ✓ Travelling column machining center
- ✓ Long stroke honing tool with big diameter
- ✓ Sewage pipe assembling unit for shovel with grab (construction machine industry)
- ✓ Tool magazine with new technology (patent)
- ✓ Turn-mill machining center

Design

- ✓ Drilling-Head clamping system
- ✓ 3-axis milling machine for 6-Cyl. truck-motor block
- ✓ Moveable milling head
- ✓ Assembly-measuring-fixture for gearbox clearance
- ✓ Fixtures milling - drilling - honing
- ✓ Spindle unit with cross-slide for boring head
- ✓ UV-dryer system for rotary-printing-press
- ✓ Paint-fog exhaust cabine for rotary-printing-press
- ✓ Chip- and swarf-sheet metall housing for gantry-milling machine
- ✓ Ajustable sawing machine for parts of wind-energie rotor blades
- ✓ Crankshaft-drive for sawing machine
- ✓ A-axis swivelling table
- ✓ Machining center with direct driven rotary table
- ✓ Machining center for milling of turbine blades
- ✓ Parts of transfer line system
- ✓ Gantry Milling machine with stroke X=15000mm
- ✓ Portal Wheel Lathe for railway wheels
- ✓ 4-axis high speed linear-motor-driven machining center
- ✓ High-Speed-Honing Machine Center
- ✓ High-pressure filter-housings (6000psi)
- ✓ Customer specific changes for machining center (tool magazines, housing, sheet metal)

Others

- ✓ Layouts
- ✓ Foundation drawings
- ✓ Calculations of drives for NC-axis
- ✓ Action charts
- ✓ Support of documents for machine documentation

Retrofit

- ✓ Strategy for retrofit and relocation of a transfer line
- ✓ Setup change of automatic drive for rotary table at a milling machine
- ✓ Improvement of reliability at a NC-polishing machine
- ✓ Retrofit of a gear milling machine to manufacture helical gearings

Training activities

- ✓ Maintenance training for Machining Center
- ✓ **training on the job** – designers from our customers are working together with us in our office on project
- ✓ lectures and instructions

Teaching activities

We know our responsibility for training of young people!

- ✓ **Visiting lecturer for mechanical engineering:**

Dipl.-Ing.(FH) Heinz R. Vogel

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www.vogel-technik.de

Our place of location:

www.oberboihingen.de