GREMOTOOL

PRÄZISIONSSPANNSYSTEME

Gremotool GmbH

swiss made

GREMOTOOL
Precision clamping systems

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GREMOTOOL – Swiss Precision

Our high-pressure workpiece clamps, are high quality machine vices

Gremotool: – Clamping devices have been in use for many years and are used throughout Europe. Developed entirely in Switzerland, our clamping devices are assembled and tested in our own factory. Based on this, we always supplement our products with new future-oriented products through our innovations and orient ourselves to future requirements.

With the centre clamps we offer flexible and precise clamping centres for the individual parts as well as for automated large-scale production. The clamping devices allow most applications to be covered, from simple workpiece handling to workpieces exchanged by robots.
The control of the clamping devices can be individually adapted.

Tense solutions from Gremotool

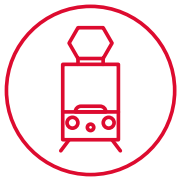
The fast-progressing development in tool and machine construction, especially in automation, makes it necessary to investigate all related machining processes.

The performance of modern machine tools and correspondingly efficient machining strategies should be able to increase constantly.
A process-safe and fixed workpiece clamping, which also withstands the performance of manu facturing process, is a major part of success.
It may not be sufficient to use modern and improved clamping devices in production if the qualified staff do not know exactly how they work in order to select, i.e. use,
the correct clamping device.
Gremotool - clamping devices of the latest generation - offer process-reliable and stable work- piece clamping, which withstands the performance of current production processes.

Vehicle construction

Aerotech

Aerospace



Rail industry

Tool making

Mechanical Engineering

Medtech

Research

Tens in the next dimension

Gain process reliability with Gremotool clamping devices.

Modern automated production systems demand stability, reliability and networking.
Independent of machining in 3-, 4- or 5-axis production, Gremotool clamping devices are available, optimized for auto-mat ion . If required, the clamping device communicates directly with the production schedule and provides reliable information on clamping force, jaw position and any quickening.
Thanks to integrated sensor technology, measured in a form-fit and force-fit connection to the workpiece, it allows conclusions to be drawn about the tolerance and surface quality.

High-precision workpiece clamping systems. Made in Switzerland

Engineering
Clamping technology for conventional up to highly automated cutting operations through expert sales partners production by "Gremotool" specialists.

Manufacturing & Distribution
In house production by strategic partners in Switzerland, Germany and Austria, our products are delivered by-regional distribution partners.

Installation
Internal assembly of components including functional testing and acceptance by Gremotool.

Logistics
Transport partners deliver the quality products to the desired location.

Services and support
Maintenance and revision of the workpiece clamping technology by Gremotool incl. conversions and/or adjustments of own and third-party products.

Our strengths
Customer-oriented, flexible creative, quality-conscious a nd on time.

The 4 cornerstones of successful manufacturing

Machining tools
Each workpiece requires a different machining procedure and therefore also different tools. If the tools assigned to the machining process are not available in sufficient quantity and quality, production cannot be started.

Raw material
Without the raw material, no workpieces can be machined. If this is not available according to the specifications and sufficient stock, the machining cannot be successful. Higher the level of automation, more precisely the raw material geometry must be specified in order to minimize possible errors.

CNC programs
Today, CAD/CAM systems support the design of the CNC-programmes of the machines. Nevertheless, preliminary activities by employees is still required in order to create the necessary procedure and the definitions of production.
Automated production can not be started, without CNC programmes.

Workpiece clamping with Gremotool products
The optimal solution for every machining application. The Gremotool gripp jaws ensure that the raw material remains clamped on the clamping device even without pre-stamping. Via the torque or the air or oil pressure, a suitable clamping force adapted for the raw material ensures a secure hold.

Company history

1986 – 90
First high pressure clamps are patetented:
Gremotool & Rolli clamping system

1999
Takeover of
Gremolith Formenbau AG

2005
New construction of a production hall with office and demonstartion room in Wilen by Wil

2006
Introduction Centro-Mill
Workpiece clamp for 5-axis machining

2015
Further development of the Centro-Mill into Smart Clamp

2019
Development of pneumatic Centre Clamp PMC

2021
- System introduction CAD/CAM

TopSolid Design
- Project start Digitalisation in the workpiece clamping

2023
New foundation of the company Gremotool GmbH at Erlen with following members of the management:
René Baumann (CEO),
Philipp Hugentobler (Head of Engineering)
Christian Eberle (Head of Engineering)

Contact

René Baumann
CEO and Chief Sales

"Industry 4.0 - an(R)evolution?".

Philipp Hugentobler
Technology & Chief Development

"Paying attention to the entire process from production to application in development, and constantly learning new things along the way, is a motivating challenge".

Christian Eberle
Technology & Chief Development

"Collected data influences the long-term success of today's manufacturing".

Gerda Weissteiner
Administration and customer service
"Pleasure, heart and engagement".

Engineering - Crafted to your specifications

TopSolid' Design & TopSolid' CAM

Combined CAD / CAM

The digital twin is already part of the name. Gremotool clamping devices are designed in the same programme in which the programming of the production is created. This makes it possible to make changes to the geometries of the workpiece with a minimum of programming effort for the production. In combination, product development becomes scalable on several levels of production.

Special solutions according to customer requirements

Whether it's a special jaw or equipping a machine with a breadboard tower, Gremotool offers customised clamping solutions. Together we offer over 60 years of expertise in various areas of manufacturing, systems technology and mechanical engineering to provide you with the best possible clamping solution for a reliable production process.

Series parameterised

The consistent parameterisation of the design data of all clamping devices makes it possible to create Gremotool products cost-effectively, flexibly and according to customer requirements. Special jaws for specific applications can also be made available quickly and easily through this procedure.

Are you looking for a new clamping solution? Contact us, we will release your tensions and ensure a secure fit.

Digitised -
Process reliability in automation

Sensors
For the Industrial 4.0 revolution, Gremotool installs various types of sensors in selected products, including acceleration, pressure and force sensors. These are selected by a micro read and temporarily saved by a micro-controller. The energy supply for these components is ensured by an accumulator.

Monitoring
Once the data is collected, it is sent from the micro-controller via a wireless connection to a base station next to the machining center. There they are stored and evaluated. The user can thus access further machine-independent values directly during the manufacturing process. This gives to him a deeper view of the machining process and allows him to optimize it in a focused process.

Process stability
Clamping devices that are extended by these functions make it possible to guarantee process stability in automated production. Essential factors in the workpiece clamping are monitored and evaluated:

- Is the workpiece still sufficiently clamped?

- What forces are acting on the on the workpiece?

- Is there still enough energy available for safe clamping?

- Are there vibrations during the manufacturing process?

This allows conclusions to be drawn about the tolerances and surface quality of the component while it is still being machined.

Impressum

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Further catalogues can be accessed on www.gremotool.ch.

Commercial Register:
UID-no. CHE-498.310.590

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Publication June 2023, Edition 1