

Finally, trade shows again

Expectations surpassed

The conditions were difficult, expectations subdued and the result unpredictable. Out of the blue: With Control 2022, which went live again for the first time after a two-year Corona break, real trade fair life celebrated a fantastic comeback!

While the timid amongst otherwise regularly represented exhibitors missed the chance of the „première“ and stayed at home, others, like Witte, celebrated a control of invariably positive surprises. Our balance sheet after an equally strenuous and invigorating Control 2022: A four-digit number of visitors at the stand, a prospect folder bulging with qualified memos of conversations and a number of direct orders. It's nice when courage, optimism and a willingness to invest are rewarded in this way.



CAD Design per customer order: Bringing ideas into shape

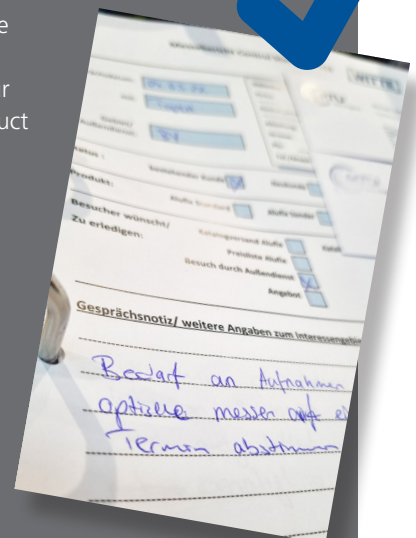
Witte brings customer ideas into shape, develops prototypes and gets them ready for production. The foundations for our performance are our excellent design department, staffed with international development teams, and our in-depth experience in mechanical and plant engineering. As well as the transfer of knowledge and skills from over 50 years of global Witte market experience. The CAD design systems CATIA, NX and Solid Works are currently in use.

Incoming orders well above target: We are on a roll...

With a result of a solid 25 percent above plan for incoming orders in the first six months of 2022 – and at the same time significantly above the comparable period of the previous year – we have made a successful start to the year. We have thus exceeded even our most optimistic expectations against the background of the currently difficult political and economic situation in the world.

Cornerstones are not only the large number of stable and trusting relationships with our customers, but also the product range, which has been considerably expanded in recent months.

Also our consistently pursued philosophy of loyalty to Witte's location. This also includes the policy to rely on reliable German and European business partners for procurement and services wherever possible.



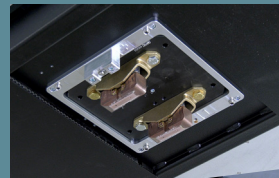
FTrade press provides decision support: Which multidirectional plate should it be?

Mobile structure plates with a multidirectional drive are the best answer to the ever-increasing impact of modern production and measuring processes that have to be carried out faster and faster. But which plate technology should a user rely on? The trade journal „QZ - Quality & Reliability“ has thought about this and assists in decision-making.

The article works out four key insights:

1. The plates should be available from manufacturers in individually selectable formats, grids and bush geometries.
2. A frame type construction offers the best rigidity and thus the best long-term accuracy. It provides maximum accuracy, flatness and parallelism of the structure.
3. Permanent recharging of the batteries should be possible via the loading contacts on the ground and in the parking position.

4. Lead-gel batteries offer significant economic, performance and safety advantages over ostensibly more modern lithium batteries.
5. Plate positioning via guide rails and laser spots offers higher mechanical positioning accuracy than electronic guides.
6. A drive with air lifting cushions and Z-positioning ensures precise lowering of the plate in Z-position and during measurement.
7. Subordination of the plate to the user's existing system structure should be possible.



New: Signaling hook clamp

Detailed solution for more process reliability:

A little thing that catches the eye: hook clamp with LED control display for fixture building. With this safety-relevant solution, Witte presents another innovation within its modular fixing system concept ALUFIX.

In fixture building, hook clamps are used where a workpiece is to be mounted and positioned via a bore and clamped at the same time. As well as for clamping positions that are so far away from the workpiece edge that they can no longer be reached with toggle clamps.

In many cases, the hook clamps are placed so deep within a fixture that their operating status – i.e. clamped or unclamped – is difficult to visually identify.

The new LEaD hook clamps developed by Witte eliminate this potential weak point in process reliability. They signal their on/off operating status clearly and quickly via green or red LEDs. The light-emitting diodes are fed independently of the mains via an integrated rechargeable battery with a running time of up to four weeks in continuous operation.

In addition to the local LED display directly on the hook clamp, the signals from several units can be combined in a central info

panel. In this way, the status of all clamps within a complex fixture can be seen at a glance. It can also be integrated into the user's higher-level process control system.

In a further future expansion stage, the implementation of dynamic clamping force control and monitoring in the new electrified LEaD hook clamps is planned.

The variants with red/green LED operating status display will be available from the second half of 2022. It is also possible to retrofit most of the ALUFIX hook clamps already in use with the new signalling function.



Award for Witte Far East: Best Supplier 2022

Great success, deserved success: Our subsidiary Witte Far East Pte. Ltd based in Singapore has now been recognized by Fiat India Automobiles Private Limited as the best supplier and service partner.

Witte Far East has been supporting the Fiat production facilities in India with the delivery and service of ALUFIX fixtures for almost two decades.



Vacuum clamping system Vilmill: Triggering factor

Vacuum clamping with Vilmill from Witte is always the choice solution when numerous small components are to be machined from a large-format workpiece.

The Vilmill vacuum clamping system consists of a fleece-like, coated film, a vacuum chuck and a powerful pump system for generating vacuum.

The Vilmill foil is placed between the vacuum chuck and the workpiece. Due to the heat generated during machining, the special surface coating sticks the workpiece to the Vilmill foil.

The negative pressure works through the Vilmill foil, which at the same time acts as a „buffer material“.

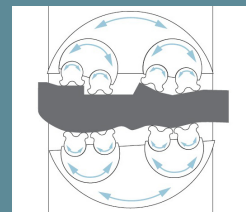
The precisely matched permeability of the Vilmill foil increases the efficiency of the vacuum chuck and reduces vacuum consumption.

Especially when machining small workpieces, Vilmill offers additional safety thanks to the holding effect.

In addition, the removal of the machined parts from the machine is made significantly easier. Vilmill is suitable for aluminium and plastic panels up to 15 millimeters thick.

FracVise: The multipurpose vise New solution for fixation of irregularly shaped workpieces

With the new „FracVise“, Witte opens up previously unimagined possibilities for fixing irregularly shaped workpieces. The precision vise has multi-part clamping jaws and flexible elements that automatically adapt to the workpiece contours „from large to small“ when closed.



Automatic adaptation of the clamping elements to the workpiece contour.

FracVise features and benefits:

- Manual operation, no other tools required.
- Highest precision thanks to components finely machined on all sides, made of high-strength or medium-strength aluminium.
- Wear-resistant thanks to anodized coating on all sides.
- Various mounting holes on the base for mounting with screw or quick connectors.
- The special shape of the multi-part clamping jaws enables the clamping of irregularly shaped workpieces.
- Gentle fixation of workpieces thanks to the many contact points.
- Bevels on the clamping jaws for automatic draw-down of workpieces.



ALUFIX Classic Keyless chucks and Vises



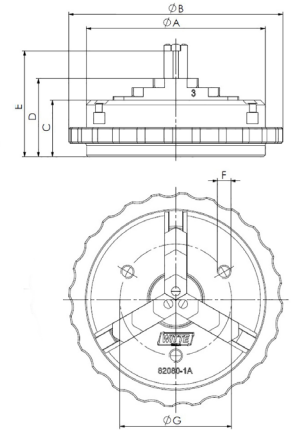
New exciting reading

New exciting reading material is waiting for download in the catalog area of the Witte website. The complete overview of the 2022 generation of our manual chucks and vises is "hot off the press".

In addition to an ergonomically optimized slewing ring, the new Witte jaw chucks come with two other innovations: Jaw bores for the additional insertion of stepped retaining pins and threaded bores for screwing in spacers and stops.

More information at:

www.witte-barskamp.de/Catalogues/Modular_fixturing_systems



Growth champion relies on QuadroVac Duration reduced by half

Machining time halved, complex workpiece machining without the use of sacrificial plates, no problems when using coolant: With the QuadroVac vacuum clamping system, the full-service contract manufacturer BAM is able to meet several challenges in its demanding production processes.

At the company headquarters in Weiden in der Oberpfalz, BAM GmbH produces components and assemblies for customers from various sectors, such as mechanical and plant engineering, electronics, food and rail vehicle industries or medical technology. The range includes machining and additive manufacturing processes as well as sheet metal processing and welded constructions made of metal and plastic with the tightest tolerances - from prototypes to large series.

The magazine „Focus Business“ named BAM „Growth Champion“ in 2018, 2019 and 2020. In addition, as a „TOP Innovator“ they are one of the 100 most innovative medium-sized companies in Germany.

Such awards are not simply presented in passing. In the case of BAM, this is also based on their philosophy of allowing innovative technologies and methods to flow into their own

thought and working processes. Just like the vacuum clamping system QuadroVac from Witte. It is used at BAM on high-performance milling machines with high-frequency spindles.

The vacuum clamping system launched by Witte in 2021 is specially designed for strongly contoured workpieces to be machined in many axes. The main areas of application for the QuadroVac are milling, drilling and thread cutting on small to medium-sized workpieces.

When using QuadroVac, BAM reduces their runtime by half compared to previous applications.



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