

ALLMATIC-Jakob Spannsysteme GmbH



ALLMATIC was founded in 1973. The company has approx. 70 employees and has been a member of the the Jakob Group since 2001. We are one of the world's leading specialists in the area of workpiece clamping systems for milling, both for conventional machines and for state-of-the-art CNC machining centres. Our product range spans from simple mechanical vices through to our NC high-pressure vices and gripper high-pressure vices on to our complex multiple-clamping systems for flexible manufacturing systems.

Thanks to our long standing experience and stringent quality standards, we are able to offer our customers intelligent and innovative solutions that are tailored to the machine and workpiece in question, thereby ensuring the most efficient machining performance possible. Last but not least, we are able to contribute decisively to improving the productivity and competitive advantage of our customers by offering an excellent price/performance ratio.



The purely mechanical power intensifier with high pressure spindle remains our core product — its design and special long-life lubrication make it extremely safe to operate and virtually non-wearing.

In addition, our vices are fitted with a fully enclosed spindle, which further increases operational safety of the vice via its optimal chip protection and minimal cleaning requirements.

Bench vice without power intensification

ALLMATIC basic — Beginner's model

- Purely mechanical threaded spindle, without power intensification.
- Easy to operate and excellent handling.
- High variation capacity and flexibility.
- High clamping accuracy and precision.
- Multiple clamping via optional floating intermediate jaw.
- Jaw width 125 and 160 mm.



ALLMATIC NC vice



Bench vices with power intensification

Allmatic NC — Mechanical/LC

- Can be used horizontally.
- Superb precision for your workpiece machining.
- The clamping force can be preset in 4-11 increments.
- Max. clamping force with 2 revolutions.
- Clamping forces can be preselected and thus reproduced ensuring exact repeatability of the workpiece position.
- Jaw width 90, 125, 160, 200 mm (base 160 mm).

Allmatic NC — Mechanical/TC

- For horizontal, vertical and lateral use.
- The TC vice is polished on all sides.
- Superb precision for your workpiece machining.
- The clamping force can be preset in 4-11 increments.
- Max. clamping force with 2 revolutions.
- Clamping forces can be preselected and thus reproduced, ensuring exact repeatability of the work piece position.
- Jaw width 70, 90, 125, 160, 200 mm



Allmatic NC — Mechanical/DUO

- For horizontal and lateral use.
- Superb precision for your workpiece machining.
- The clamping force can be preset in 4-6 increments.
- Max. clamping force with 2 revolutions.
- For clamping of two identical parts (± 3.5 mm).
- Jaw width 90 and 125 mm

Allmatic NC — Mechanical/CENTRIC

- Suitable for extremely heavy machining work and precision manufacture when used both horizontally and vertically.
- Purely mechanical power intensification acts symmetrically on the clamping jaws.
- Adjustable clamping force in 4 increments avoids deformation of the workpiece and increases the precision of the workpiece position.
- Adjustable centre shift for simple alignment of the neutral axis.
- Jaw width 125 mm.



ALLMATIC NC grip vice



Allmatic NC — Mechanical/TITAN

- Can be used horizontally.
- Also available in the TC TITAN version, which is suitable for horizontal machining centres.
- Depending on the clamping jaws, both pre-machined workpieces and unmachined parts can be clamped.
- With support jaws, unmachined parts with varying types of flame-cut and sawn materials and even complex castings can be clamped safely and economically. Suitable for materials of mechanical strength up to approx. 1000 N/mm².
- The polished jaws of the TITAN ensure the precision that you need for your machining.
- Use with a torque wrench – max. 30 Nm.
- Great flexibility – the modular clamping system combines nearly all the possibilities of our tried and tested models LC 125 and T-REX with a special mechanical power-transfer device.
- This enables machining work even in cases where clamping over a table is awkward.
- Jaw width 125 mm.

Allmatic NC — Mechanical/T-REX

- Can be used horizontally.
- Optimal for use on 5-axis machining centres.
- Safe and fast clamping of unmachined parts, flame-cut materials and sawn materials.
- Clamping of parallel pre-machined workpieces with optional step jaws.
- Suitable for materials of mechanical strength up to approx. 1000 N/mm².
- Optimal accessibility for machining of 5 sides thanks to the compact base and generous clamping width.
- Moulding and clamping in one working step, directly in the working area, no additional accessories required.
- Different workpiece shapes can be clamped thanks to the rotatable basic movable jaw with pendulum design.
- Gripper studs can be replaced without tools and are easy to adjust manually.
- Use with a torque wrench – max. 30 Nm.
- Special mechanical power-transfer device.
- Jaw width 125 mm.



NEW NEW NEW**Allmatic NC - mechanical / CENTRO Gripp**

- Horizontal installation
- Compact design, ideal for 5-axis machining centres
- Depending on the clamping jaws, both pre-machined work pieces and unmachined parts can be clamped
- The support jaws enable a wide range of unmachined parts from flame-cut and sawn materials through to complex castings to be clamped securely and economically. Suitable for materials with a strength of up to approx. 1000 N/mm².
- The centre is adjustable. The position of the workpiece stays within set boundaries.
- Use with a torque wrench – max. 70 Nm.

ALLMATIC manifold and customised clamping solutions

In addition to the standard products, ALLMATIC offers a variety of custom-made solutions. Each solution can be adapted to your machine, your workpiece and your machining techniques. The greater part of these solutions are monoblocs and set-ups.

Monoblocs are made from a single piece, gas nitrated and polished on all sides. This guarantees an extremely high degree of stability and ensures optimal machining results. Set-ups are tombstones that consist of several standard vices

In order to achieve an exact position on the machine table or on a pallet, the base plates are adjusted accordingly. If you require it, we can manufacture base plates with an elevation, another grid for mounting holes, a centering mechanism (potentially with a second index) or a JIS stop system



Why not let us prove our capabilities?

ALLMATIC
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