Increasing productivity with Pfiffner: the Hydromat® standalone machining unit

Greater efficiency
More flexibility
Higher productivity
Without CNC, rotary transfer machines quickly reach their limits

No question: conventional Hydromat® rotary transfer machines with classic hydraulic machining units can turn in blistering performance. They produce large runs of complex components, day in, day out, all in incredibly short cycle times with maximum precision. And they do it all without CNC.

But what if you need to make even more complex workpieces? Or if your customers put even more exacting demands on the component in question. What if:

- they need to turn a ball or a cone
- they need to cut or whirl a thread
- they need to drill multiple bores, as well as external and internal contours

Demanding jobs like these often go beyond the limits of conventional Hydromat® rotary transfer machines without CNC. They can only be mastered with work-intensive re-machining or the use of several other machine tools.

But that, of course, drastically pushes up production costs and decimates profitability.
With a standalone CNC machining unit, rotary transfer machines can be pushed beyond their limits

No problem: Pfiffner’s innovations keep you productive when others run out of solutions. Because now, conventional Hydromat® rotary transfer machines without CNC can be retrofitted with the newly developed Hydromat® standalone machining unit. All without the need for extra space.

The standalone machining unit consists of:

- a control cabinet with drives and hydraulics
- a Siemens HT8 handheld terminal
- a 50/100 turning attachment for lathe work (top right) or a flange unit with a 36/100 and 26/80 tool spindle attachment for milling and drilling work (bottom right).

The machining units are supplied with Siemens controls developed specially for the machining station and open up undreamt-of possibilities for productivity. A profitability check will soon tell you whether you need one or two machining units for your components.

And this is where standalone takes on an entirely new meaning: because when it comes to retrofitting existing Hydromat® rotary transfer machines, Pfiffner is in a league of its own.
Turning and cutting with unmatched precision: thanks to the standalone machining unit

Turning with various diameters
A workpiece with three different diameters used to require three different machining stations. Today, a standalone machining unit handles them all in a single pass.

Turning external and internal contours
There was a time when the turning of external and internal contours with complex shapes was impossible without CNC. For jobs like these, a standalone machining unit uses low-cost standard tools.

Thread-cutting
With a standalone machining unit, thread-cutting too is completely automatic.
Thread-milling and contour-milling with unmatched precision: thanks to the standalone machining unit

Thread-milling
With a standalone machining attachment, thread-milling is much faster and burr-free.

Drilling multiple bores
At one time, the drilling of a variety of bores required several machining stations. Today, a standalone machining attachment handles it all in a single pass.

Milling complex external and internal contours
With a conventional Hydromat® rotary transfer machine, it is not even possible to mill complex external and internal contours. For machining processes like these, a standalone machining unit is the most efficient solution.
Retrofitting Hydromat® rotary transfer machines with unmatched precision: the highlights at a glance

- Even highly complex components can be manufactured in a single pass on conventional Hydromat® rotary transfer machines.
- Simple, low-cost standard tools are used for all machining processes.
- Pfiffner’s expert service team exchanges the hydraulic unit for a CNC unit in next to no time.
- The standalone unit dovetails smoothly with your existing controls.
- Setup with the Siemens HA8 handheld terminal is simple thanks to standardized ISO programming.
Profiting with unmatched precision: the return on investment for forward-looking entrepreneurs

- The efficient production of components in fewer passes and on fewer machining stations boosts your company’s productivity and efficiency.

- New ways of machining even more complex components increase your company’s flexibility and sharpen your competitive edge.

- Faster, higher-quality CNC-machining processes enhance the precision of your components and boost your company’s performance.
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