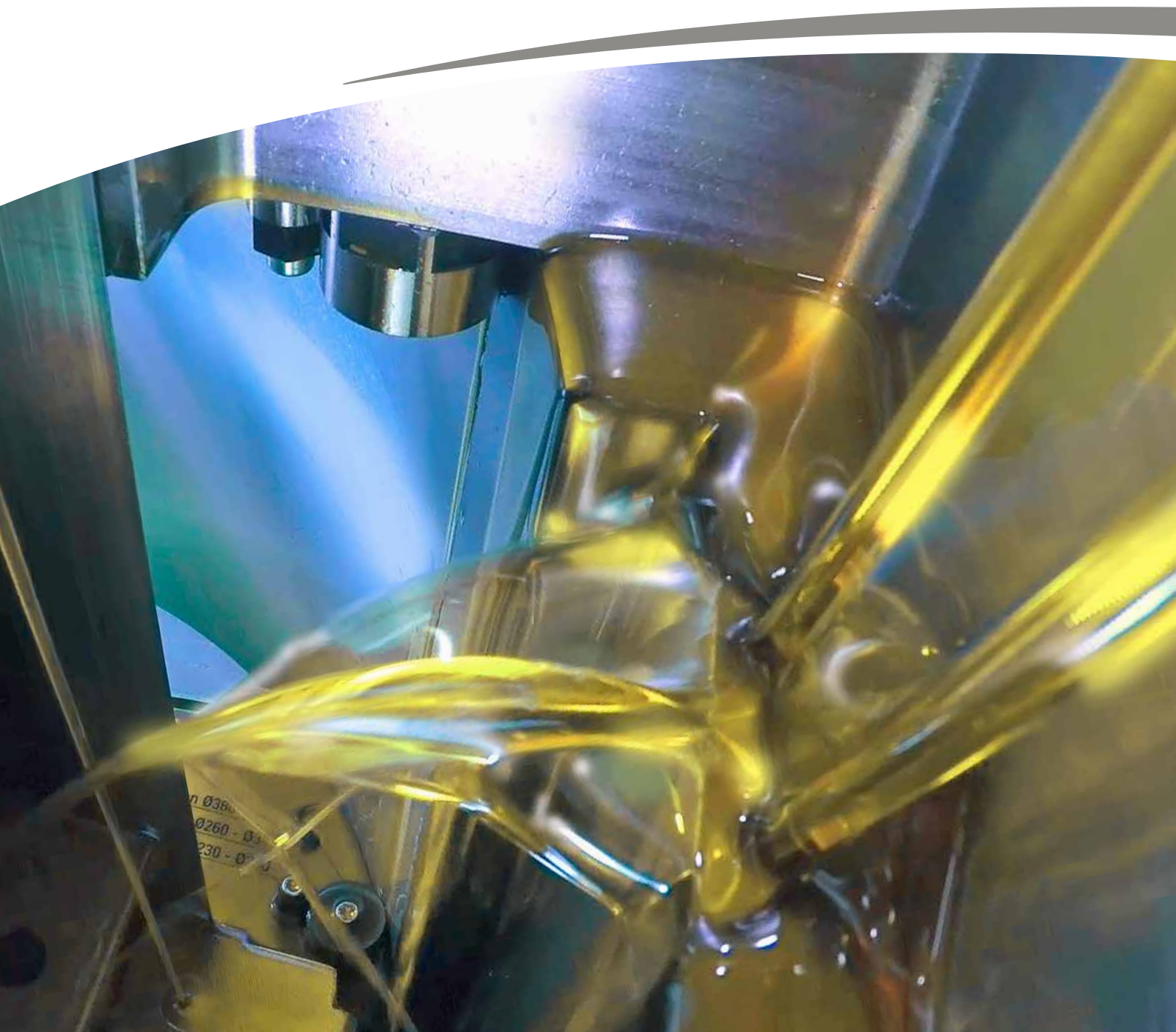


SMART POLYMAT

Innovations for keyseating machines



SMART SOLUTIONS FOR KEYSEATING MACHINES

Reducing setup times is one of the most important issues in order to reduce production costs. The goal is a fast and simple setup process. **With the new Polymat machine options, Leistritz offers optimal solutions for flexible production and an even more economical setup.**

OPTIMIZING SETUP TIMES

The exact positioning of the tool system is the basis for the high quality of the keyseating process and decisive for the setup time. A positioning pin in the tool holder ensures precise installation. Readjustment is no longer necessary. In addition, there is the option of clamping the knife guide bar by a zero-point clamping system.

The hydraulic clamping system

The new tool clamping system increases safety and efficiency during setup. Cutter bar and feed bar are precisely loaded hydraulically by means of simply pressing a button.

Your benefits

- time-consuming search for the tool position is no longer necessary
- the cutter bar and feed bar are in the same height adjustment
- faster and safer clamping of the cutter bar/tool holder
- operator no longer has to reach into the machine



Hydraulic clamping system for the cutter bar



Hydraulic clamping system for the feed bar

PREVENTING TOOL DAMAGE

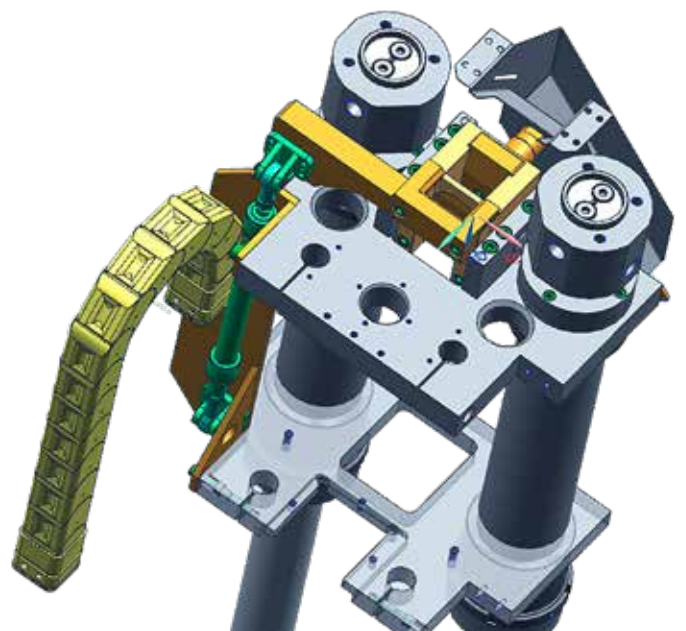
The two-piece keyseating tool, consisting of cutter bar and feed bar, was previously preloaded and manually adjusted by the machine operator. Incorrect settings could not be excluded and often depended on the experience of the operator.

The pneumatic clamp

The installation of the pneumatic clamping option results in the adjustment of the optimum preload by the control system. The tool is clamped safely with repeatability.

Your benefits

- elimination of setup errors that lead to cutter breakage and/or tool breakage
- fast and safe setup



Pneumatic clamps

PREVENTION OF SETUP ERRORS

Centering of the cutter bar and the feed bar

The cutter bar and feed bar holder are not changed. A new splined plate with a fixation pin is added and respectively clamping bracket and thrust element for the feed bar are exchanged.

This ensures that the cutter bar and feed bar:

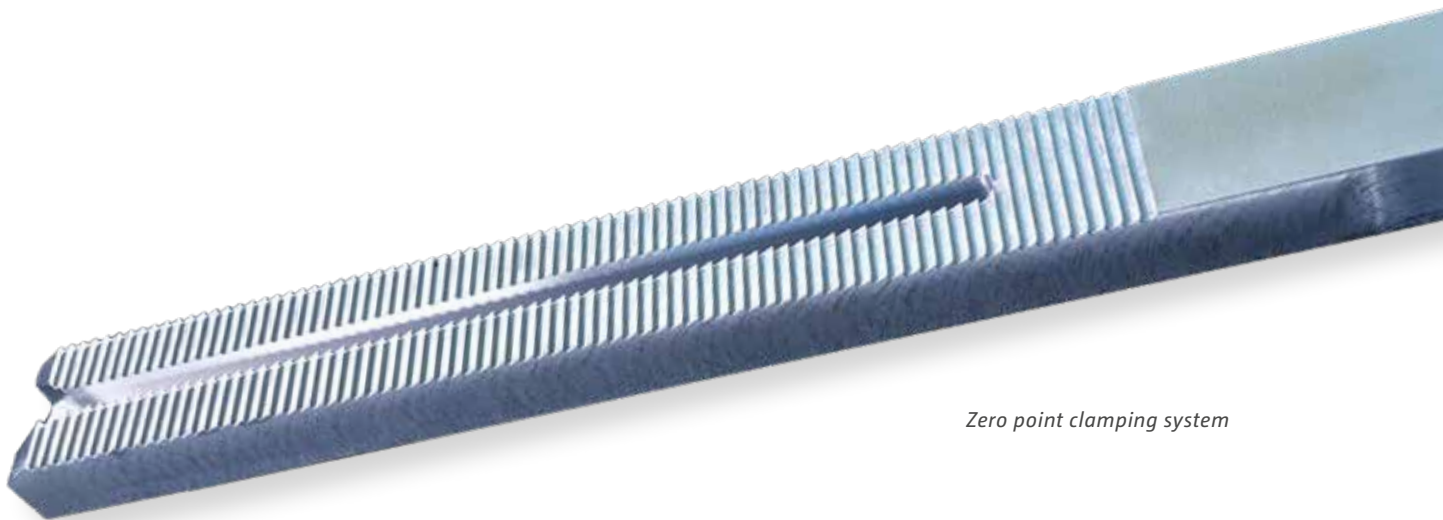
- are always centered to the machine/tool system
- are always at a designated height

Your benefits

- eliminate set-up errors, which in the worst case could lead to cutter breakage and/or tool breakage
- operator no longer has to reach into the machine
- it is ensured that the cutter bar and feed bar are level with each other
- manual setting of the tool zero position is not necessary



Splined plate with fixed pin



Zero point clamping system

Zero point measurement of the cutter

The cutter guide bars are equipped with a measuring surface on the back that is precisely positioned in relation to the tool center. The operator measures from this surface to the cutting edge of the knife after the entire tool has been inserted. This value is transferred into the control system by the operator. The control compares the entered ACTUAL value with the required SET value and automatically sets the X axis to the ideal starting position.

Your benefits

- time-consuming, manual search for the zero position by "scratching with foil" is no longer necessary
- simple and safe zero point determination, especially in blind holes, since no shim stock can be used there

PREDICTIVE MAINTENANCE

The networking of system components and machines sets new standards in industry. Leistritz offers a solution that allows you to quickly and easily retrieve machine data from your Polymat and benefit from its analyses in the long term.



Messenger

Not in the area?

You are always notified about the current machine status by messages.



Condition Monitoring

Monitor the machine status at a glance - in real time.

You immediately recognize critical states of the system, e.g. alarms. Counter-measures can then be initiated immediately.

PREDICTIVE MAINTENANCE



Diagnostics

Know today what will be important tomorrow.

Get diagnostic data such as alarm history, program history, signal curve and macro value history at a glance and optimize your production process.



Performance Monitoring

Keep track of the operating results.

Optimize machine utilization by monitoring machine data and improve production resource planning.



» *Smart sensors keep you informed about your Polymat machine - always and everywhere!*

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