
Z G3 System

GET plate lip system

LIEBHERR

Mining

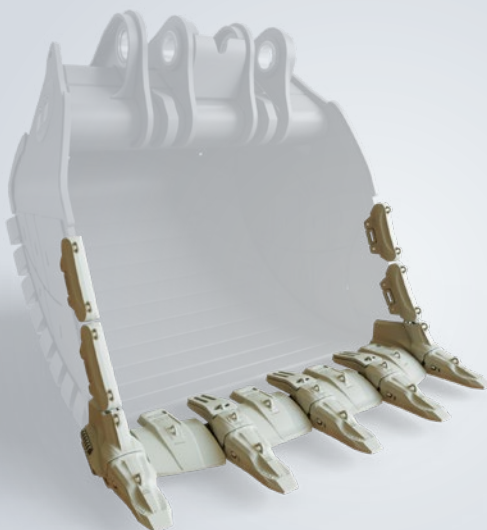


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The next generation of Liebherr's high-performance GET plate lip system for hydraulic excavators up to 400 tonnes is here.

The Z G3 System is our most advanced GET (Ground Engaging Tools) for hydraulic excavators up to 400 tonnes. Developed using a combination of extensive research, real-world feedback from operators and direct customer collaboration, the Z G3 System is designed for durability, efficiency and precision in tough mining conditions.

Every component has been refined to surpass industry standards, helping you reduce downtime, boost productivity and lower overall operating costs. The Liebherr Z G3 System is built to perform and made to last – setting a new benchmark for mining and digging efficiency.



Engineered to enhance on-site maintenance and productivity

Fully compatible with hydraulic excavators from all OEMs, up to 400 tonnes

Unparalleled support provided through our regional service centres



Improved tooth design



Self-sharpening design:

The improved tooth design – provides better penetration while maintaining a sharp edge throughout its wear life.

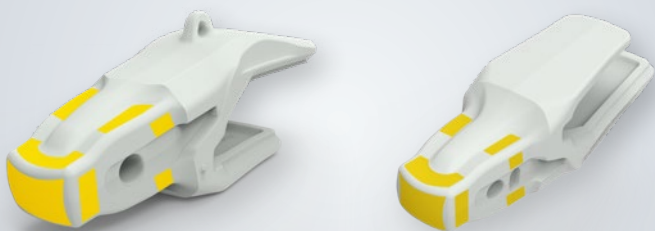
Higher wear material ratio:

The new tooth is specifically engineered with more wear material to withstand harsh environments, preventing premature wear and maintaining effectiveness over its service life.

Pre-installed metal retainer:

The new tooth is designed with a pre-installed retainer, eliminating the need for separate installation. Unlike plastic alternatives, this retainer withstands higher operating temperatures and is unaffected by storage conditions.

Enhanced adapter design

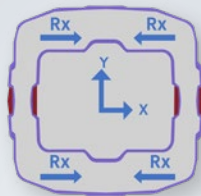


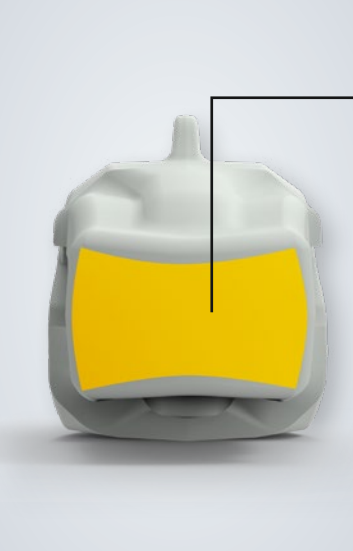
Minimal nose plastic deformation:

The large contact surface of the adapter reduces plastic deformation, maintaining structural integrity and reducing the frequency of maintenance.

Symmetrical adapter design:

The improved adapter design provides more stability through optimised load distribution. It also enables torsional stabilisation, which keeps the teeth securely in place during operation, preventing misalignment and extending wear life of components.





Spherical front contact surface:

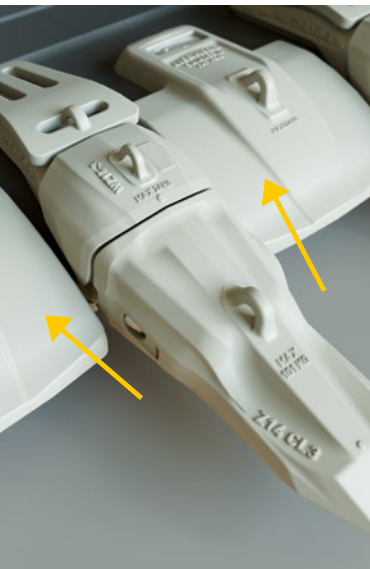
The spherical design at the front of the adapter nose allows slight vertical movement of the tooth during digging, helping to evacuate fine materials. This prevents compacted debris from accumulating between the adapter and tooth, making removal easier and ensuring smoother maintenance in demanding conditions.

Optimised wear cap design



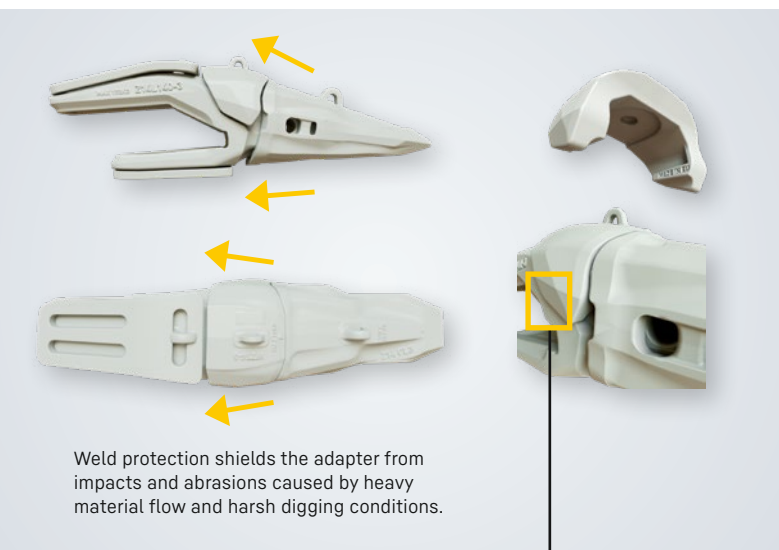
Wear indicator:

The redesigned wear cap features an integrated wear indicator that provides a clear signal (a hole becomes visible) when the cap has reached its wear limit. This ensures timely replacement, maintaining optimal protection for the adapter.



Flush fit integration:

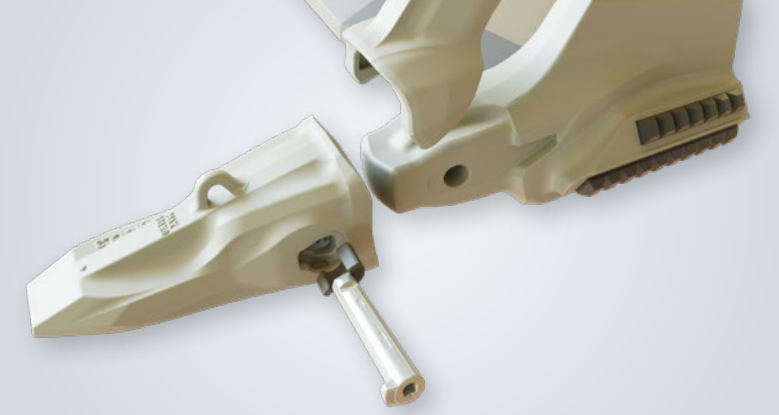
The flush fit design of the wear cap makes materials flow straight into the bucket to prevent buildup between components, extending wear life while lowering maintenance costs.



Weld protection shields the adapter from impacts and abrasions caused by heavy material flow and harsh digging conditions.

Weld protection:

The improved wear cap design features a weld protection that protects against lower and lateral wear of the adapter.



Efficient and safe locking system

Two-step hammerless assembly & disassembly process:

Our system features an optimised hammerless locking mechanism designed for safe, quick, easy setup and maintenance – all completed in just two simple steps.



Step 1:

Insert the tooth into the adapter.



Step 2:

Secure the assembly by pushing the pin into its designated slot.

For disassembly, the process is just as efficient – rotate the pin 90 degrees to enable fast and easy retrieval. This streamlined approach minimises downtime and simplifies maintenance.

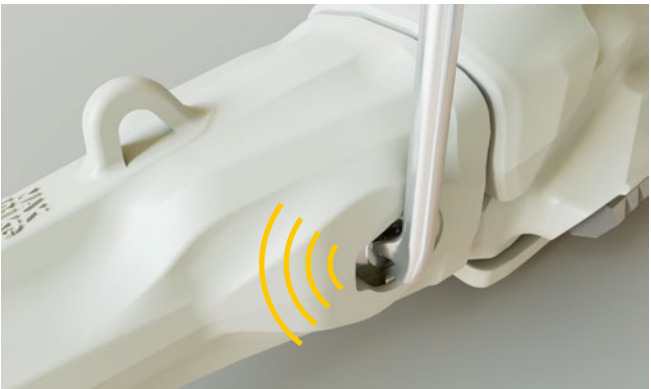


Quick and easy pin retrieval when rotated to 90 degrees.



Tooth pin with a (poka-yoke) hole design:

The precisely engineered locking hole ensures correct pin placement and has been designed with a poka-yoke mechanism to prevent incorrect pin insertion.



Acoustic confirmation:

Service technicians can hear an audible click when the pin is securely locked in its correct position, ensuring proper installation.

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