

Massive (HL)

Precision. Crafted in one solid form.

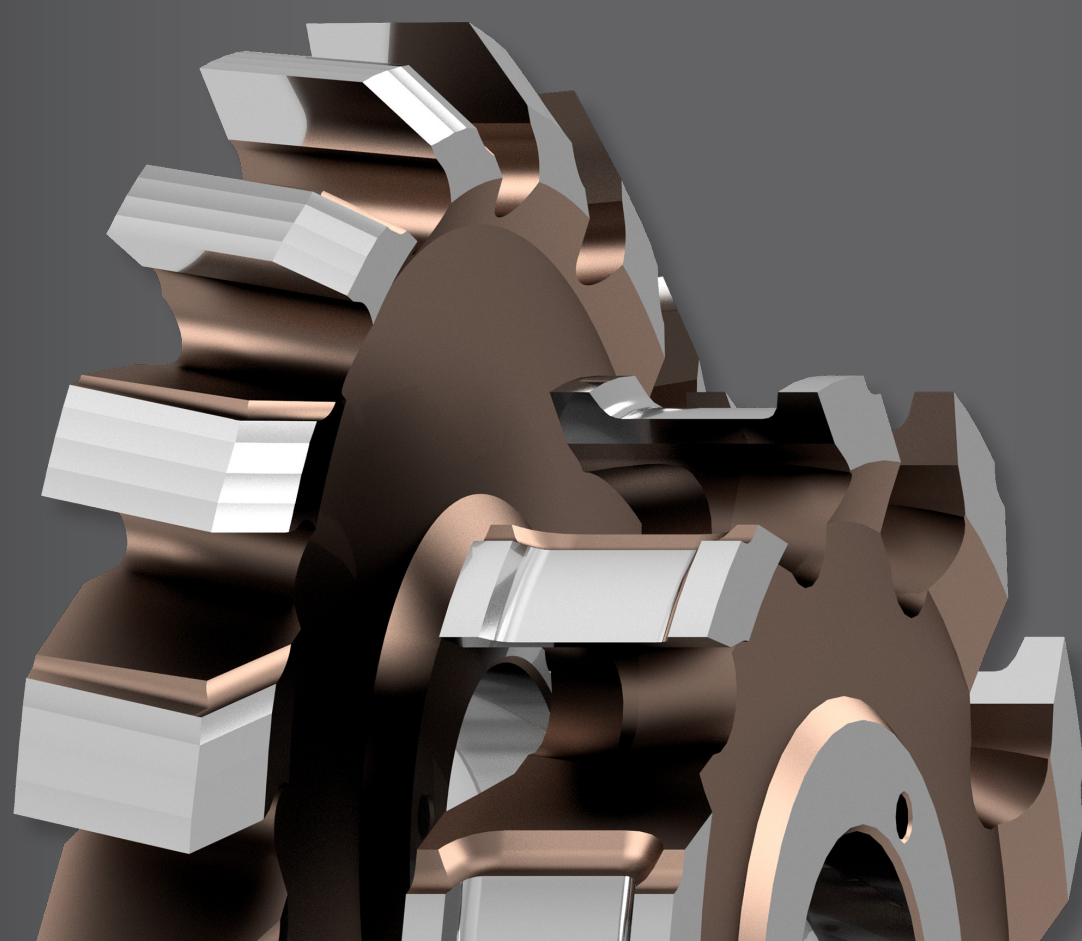
Pure. Solid. Precise.

Monolithic cutter design delivers exceptional rigidity and balance, ensuring unmatched precision and consistently clean cuts throughout every production shift.

The solid body construction eliminates the tolerances and vibration, resulting in smoother cutting action, tighter dimensional accuracy, and flawless surface finish—right from the first pass.

Engineered for demanding industrial applications, the tool produces perfectly even cutting surfaces that minimize tear-out, reduce rework, and significantly improve final product quality.

High feed speeds are achieved without sacrificing stability or precision, keeping production lines running efficiently and maximizing throughput.



At a glance

The LTT massive tool, is recognized by the industry as a best-in-class tool when it comes to quality and performance. Our industry leading tolerances and materials, together with an R&D Dept., allow for unmatched results.

No vibrations

The one-piece design minimizes vibrations during operation.

Tight tolerances

Our tight tolerances ensure predictable performance and repeatable results.

Premium material

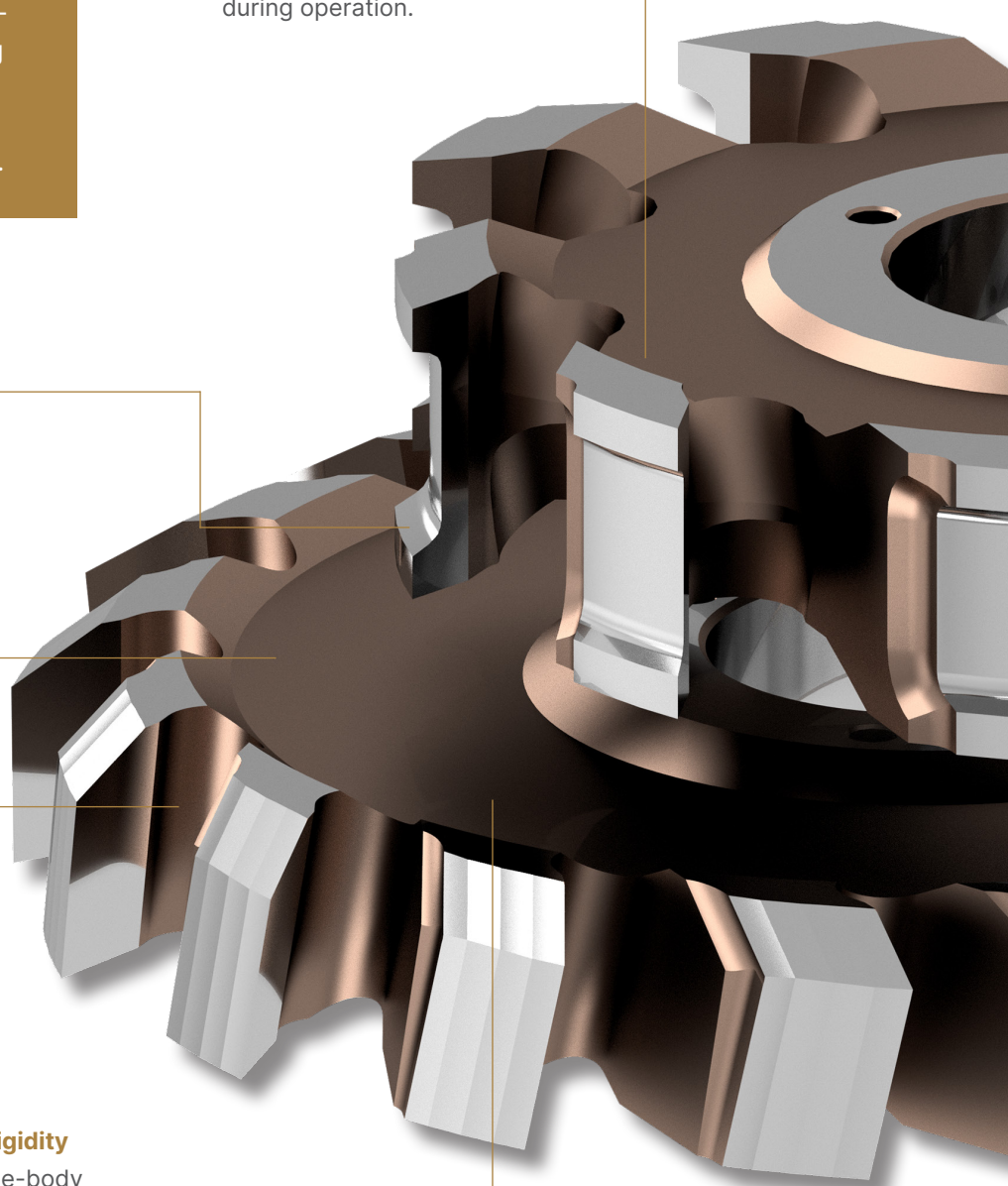
Provide higher stiffness, lower vibration, and longer tool life. Fewer tool changes and less downtime during production.

Design

Better opportunities to design effective chip pockets and clearances.

Superior rigidity

Solid, single-body construction enhances structural stiffness.



Benefits of massive tools

Structural rigidity

Lower elastic deformation → higher positional accuracy of the cutting edge → consistent precision across long production shifts.

Dynamic balance

Minimal imbalance forces → improved spindle stability → clean and repeatable cuts.

Vibration behaviour

Reduce resonance within operational speed range → smoother cutting action and superior surface finish.

Chip thickness stability

Uniform chip formation → reduced tear-out → perfectly even cutting surfaces.

High feed with stability

Higher feed rates and material removal rates without chatter or accuracy loss.

Material removal rate

Maximum throughput while maintaining precision and surface quality.

Sharpening geometry

Steeper rake angles and finer edge radius without structural limitations.

Performance impact

Consistent cutting angles over multiple resharpenings result in constant cutting force and stable surface quality.

SUMMARY: That single-body design makes the tool significantly stiffer and perfectly balanced, which means the cutting edge stays exactly where it should — every pass, every shift. The result is a smoother, more stable cut, tighter dimensions, and a superior surface finish right from the first pass — no fine-tuning, no rework. The higher rigidity allows the tool to run at increased feed speeds without chatter or accuracy loss. Production stays fast and predictable, even in demanding industrial applications. Because the cut is stable and even, tear-out is minimized and surface quality is consistent, improving final product quality and reducing scrap.

About LTT

Lahden Teräteos (LTT), founded in 1960, is a pioneering manufacturer of, among others, high quality moulder and diamond tools developed for the wood industry. Our recognized quality can especially be found in applications where demanding conditions require yield, speed, and endurance. Through continuous development of products and services, together with their highly trained and motivated personnel, LTT has become a leading profiled tool manufacturer in the Nordics.