

Gear hobbing machine LC 180 Chamfer Cut

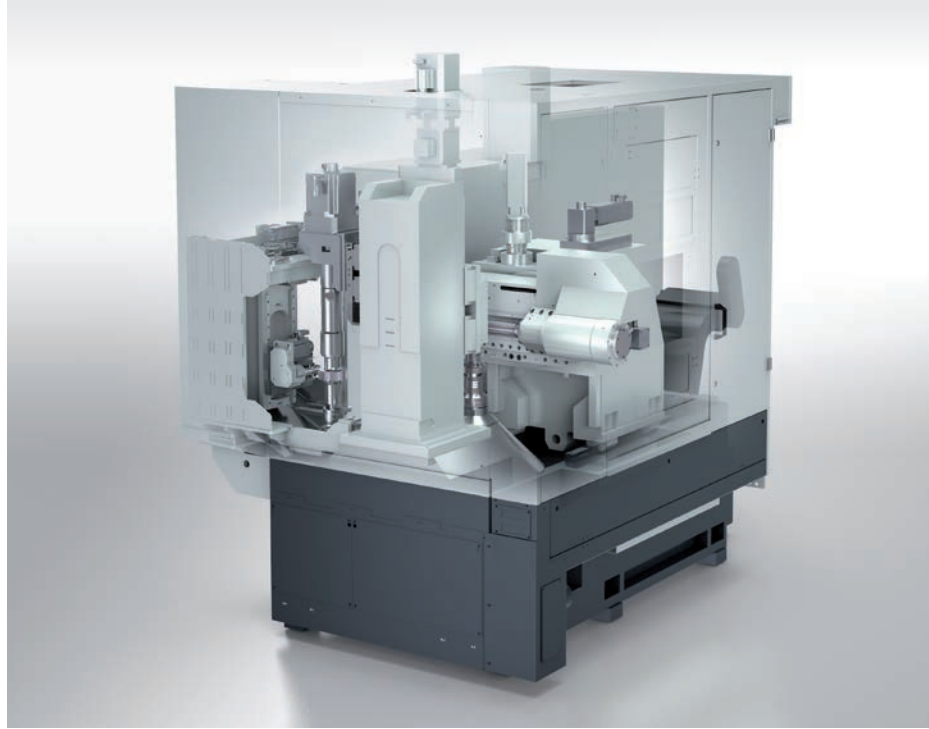
Chamfering after single-cut machining



LIEBHERR

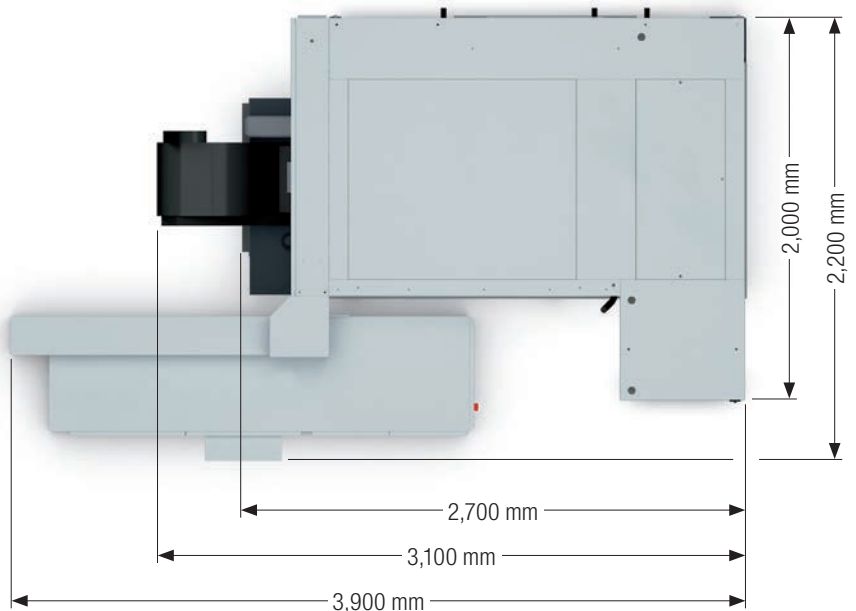
New possibilities for a tried and proven principle

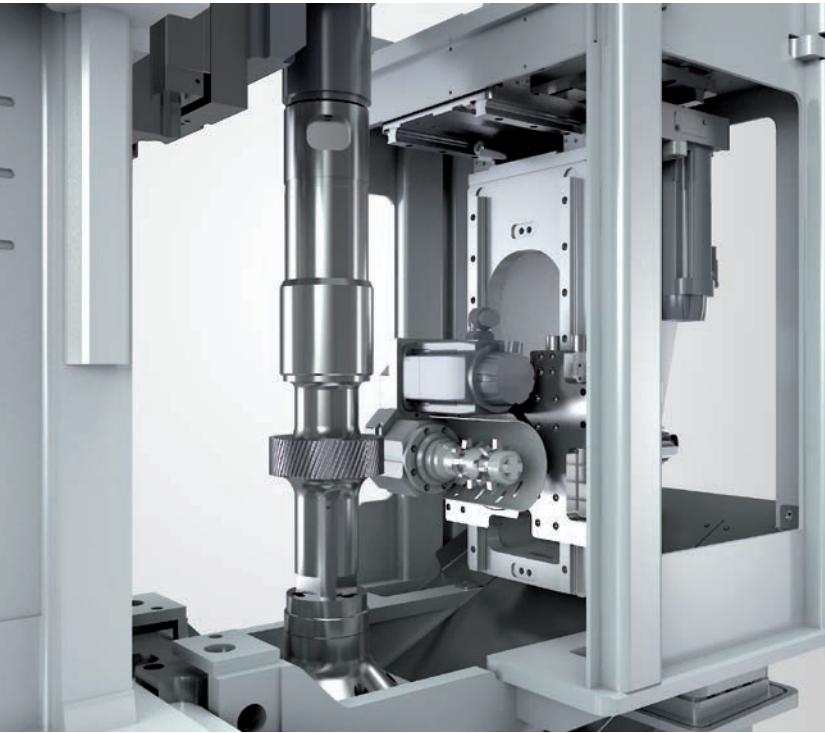
The great advantage of the LC 180 gear hobbing machine with the new separate Chamfer Cut unit is the simultaneous chamfer in a second machining position – two machines in one, so to speak. The LC 180 Chamfer Cut combines high chamfer quality with single-cut machining. This method, which has been established for many years, is based on tried and proven machine technology and has now been opened up by Liebherr for new applications. After gear hobbing in the customary single-cut strategy, additional precise and repeatable chamfers are created with the appropriate chamfer cutter, and that with maximum economised performance.



The advantages for you with the LC 180 Chamfer Cut:

- Simultaneous chamfering in a second machining position
- High chamfer quality with single-cut machining
- HSK 50 interface for chamfer spindle: Simple set-up by clamping the cutter onto an arbor
- No need to shorten the hob length
- Separate fixture for hobbing and chamfering
 - Stiffness-optimised clamping for hobbing
 - Collision-optimised clamping for chamfering
- Without bulging or secondary burrs





Flexibility due to new workpiece clamping

The separate Chamfer Cut unit in the 90° position of the ringloader offers the great advantage that workpiece can be simultaneously chamfered while another part is hobbled. It is possible to chamfer into the flank or out of the flank. Moreover, modifications to the flank corrections are possible using the control system.

Chamfer Cut offers many more advantages:

- No material deformation
- Very long tool life, even with dry machining
- Modifications to chamfer due variable flank corrections are possible
- No needle chips
- Adjustment via CNC axes
- Chamfer cutter is easy to sharpen
- Chamfering without changing the direction of rotation of the workpiece optional (into the flank, out of the flank)

New user interface



New user interface for easier programming and machine operation with many operator advantages:

- Individual configuration
- Intuitive operation
- User guidance for process and refitting cycles
- Mathematical analysis
- Touch operation
- Graphic input support
- Incorporation of additional documentation (e.g. fixture layouts, tool mounting instructions)
- Integrated webcam

Automation solution

Different automation options are available for Liebherr gear cutting machines. We have the right automation system for your individual requirements. Besides numerous different

conveyor systems, e.g. plastic chain conveyors, drag frame conveyors, hinged chain conveyors, etc. Liebherr also manufactures gantries, robot systems and storage systems.

Palletizing cells



Gantries



Conveyor systems



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