



HEIDENHAIN

Advantages of OCM over conventional machining:

- Reduced thermal load on the tool
- Superior chip removal
- Uniform tool engagement
- Higher possible cutting parameters
- Higher removal rates

The OCM option contains practical cycles for roughing, side-wall finishing, and floor finishing.

OCM is an effective, reliable, and convenient way to improve your productivity:

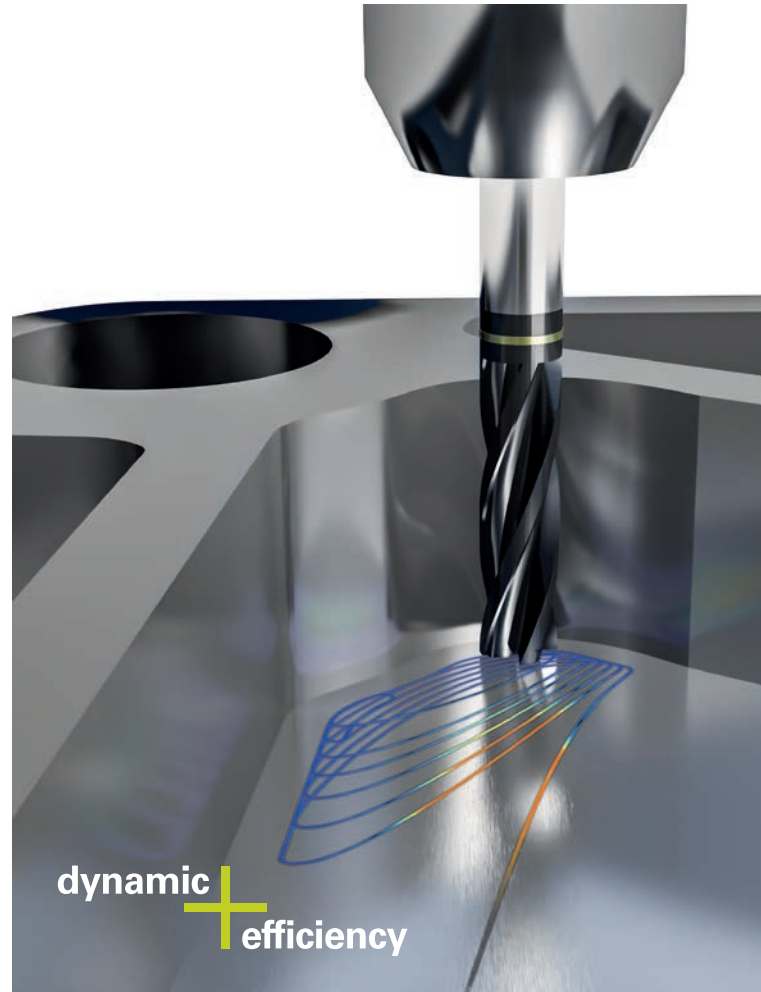
- Shopfloor programming of any pocket or island
- Notably higher machining speed
- Considerable reduction in tool wear
- More chips in less time

For more information, visit:

emo.heidenhain.de/ocm



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dynamic + efficiency

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Enhance Clearing Processes

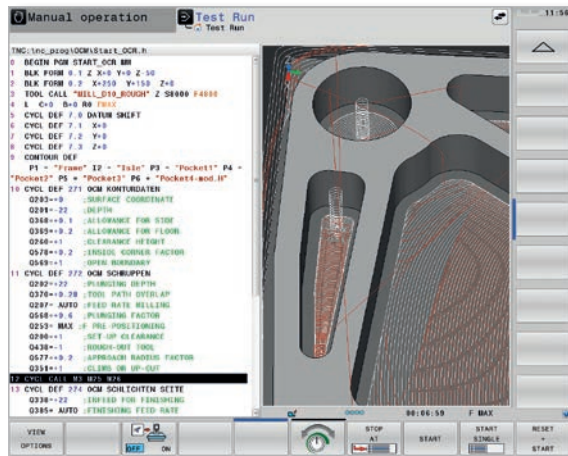
Optimized Contour Milling (OCM)

Efficient machining strategies are an important foundation for an economical NC production shop. Roughing processes, in particular, offer great potential for optimization. This is because roughing steps usually take up a sizeable portion of the overall machining time.

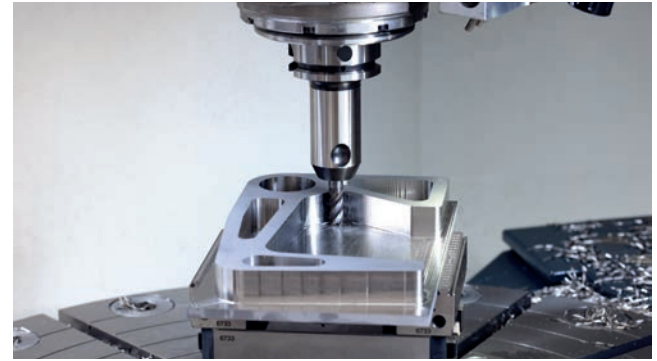
With OCM, you can machine any pockets and islands while reducing tool wear thanks to highly efficient trochoidal milling. You simply program the contour as usual directly in Klartext or make use of the convenient CAD Import function. The control then automatically calculates the complex movements required for trochoidal milling.

OCM sets new standards in economical milling production:

- Easy and efficient programming
- Fast and low-wear machining



In this milling test, OCM reduced tool wear and machining time each by a factor of three.



Tool: VHM end mill (\varnothing 10 mm)
Workpiece material: 1.4104

Conventional machining

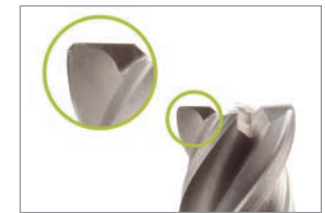
S5000, F1200, a_p : 5.5 mm
Overlap factor: 5 mm
Machining time: **21 min 35 s**



Tool after two parts

Machining with OCM

S8000, F4800, a_p : 22 mm
Overlap factor 1.4 mm
Machining time: **6 min 59 s**



Tool after six parts

Fast and low-wear machining

High removal rates in a realistic test