

**Cooling of the cutting edge  
→ suction effect!**

For virtually chip-free components

**No adjustment required**

100% plug & play

**Find out more at:**

[cutting.tools/int/en/maximill-sec12](https://cutting.tools/int/en/maximill-sec12)

# Uncompromising face milling with suction effect

## MaxiMill SEC12

CERATIZIT is a high-technology engineering group specialised in cutting tools and hard material solutions.

**Tooling a Sustainable Future**

[ceratizit.com](https://ceratizit.com)



**CERATIZIT**  
GROUP

A new level of...  
**process security,  
cost-effectiveness  
and performance**  
for the automotive industry



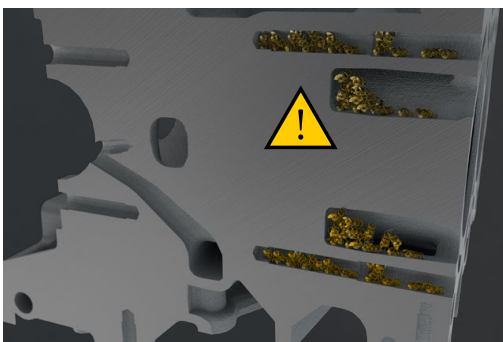
## Face milling cutter with suction effect

Our PCD MaxiMill SEC12 face milling cutter is the ideal tool for machining crankcases, cylinder heads and other components made from aluminium and non-ferrous metals in the automotive industry, the interiors of which must remain chip-free. The special design of the insert seat and cutting insert topology, supported by the coolant pressure, creates a suction effect at high speeds that clears virtually 100 percent of the chips away from the workpiece.



## The comparison

Conventional face milling vs. MaxiMill SEC12 with suction effect



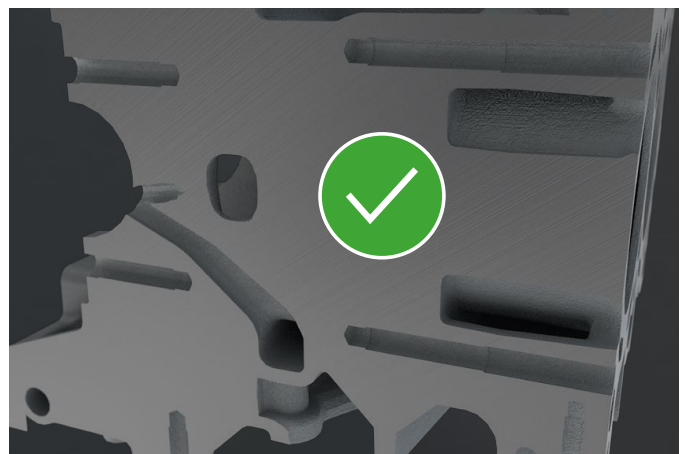
### Conventional face milling

Chips are flushed into the component

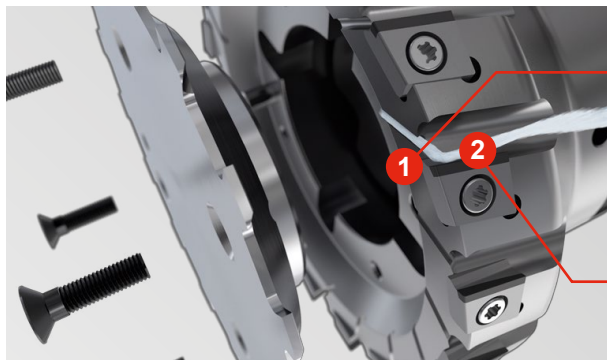
**VS.**

### Face milling with the MaxiMill SEC12

Up to 100% chip-free components  
thanks to suction effect



# MaxiMill SEC12 impresses with its practical application



## Cooling of the cutting edge

Coolant cap guides coolant jet directly onto the cutting edge

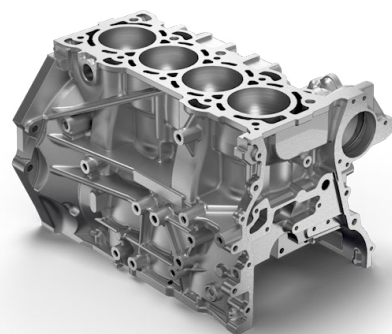
## Suction effect

Cutting edge geometry, cutting edge positioning and coolant jet generate a suction effect

## The most important cutting data:

- ▲ Cutting speed  $V_c = 2355 \text{ m/min}$
- ▲ Feed rate per tooth  $f_z = 0.2 \text{ mm}$
- ▲ Feed rate  $V_f = 14,400 \text{ mm/min}$
- ▲ Cutting depth  $a_p = 5 \text{ mm}$
- ▲ Cutting width  $a_e = 80\%$
- ▲ Tool life of 40,000 components

→ This means that 40,000 crankcases can be machined per tool lifecycle in an impressive time, to a high quality and virtually chip-free



## Benefits at a glance:

### Long service life

Extremely long service life above the usual market average

### Cost-effectiveness

Maximum cost-effectiveness through optimum design of the number of teeth

### 100% plug and play

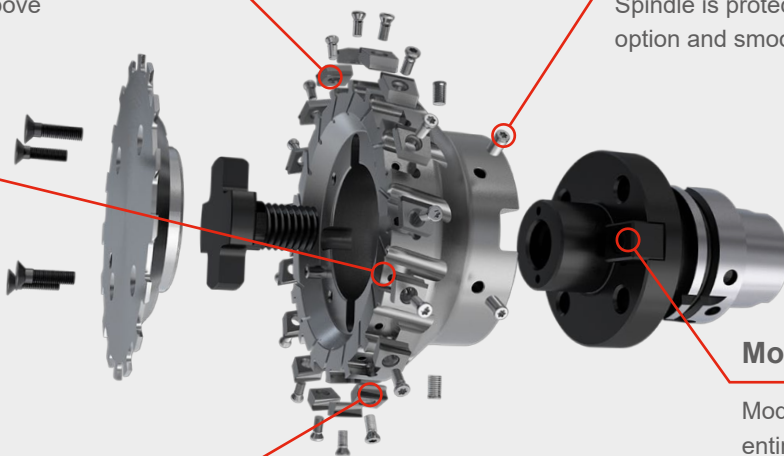
No adjustment required

### Fine balancing

Spindle is protected thanks to fine balancing option and smooth cutting insert

### Modular

Modular tool design made up entirely of standard products



The entire standard product range is available from stock.

<https://cutting.tools/en/maximill-sec12>

For more information:  
Scan here!







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We reserve the right to make technical changes and product improvements.

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