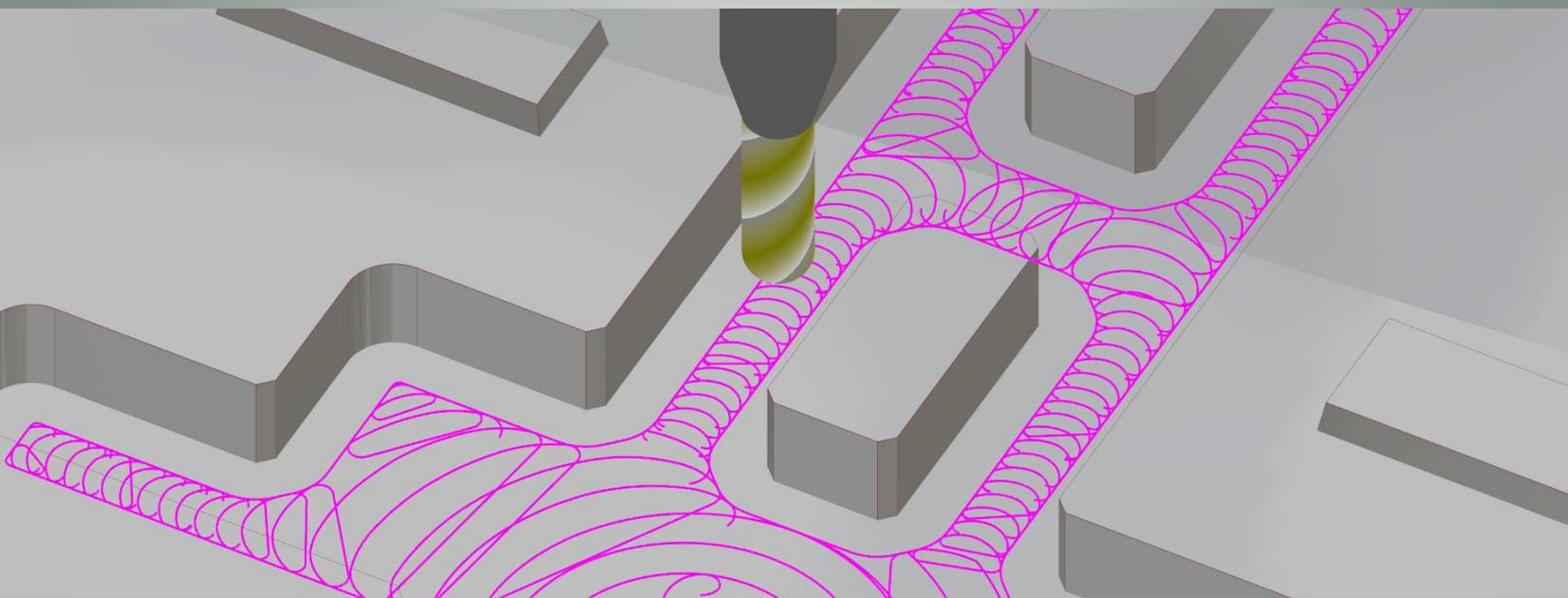
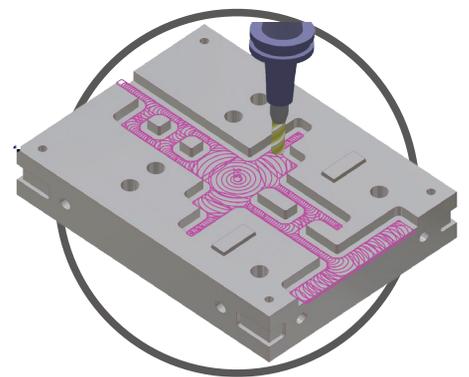




GO2cam's Adaptive Roughing Cycle



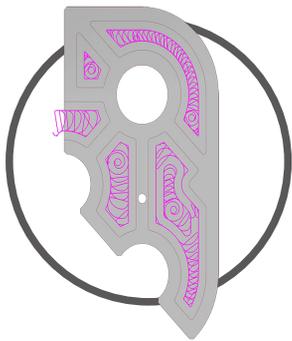
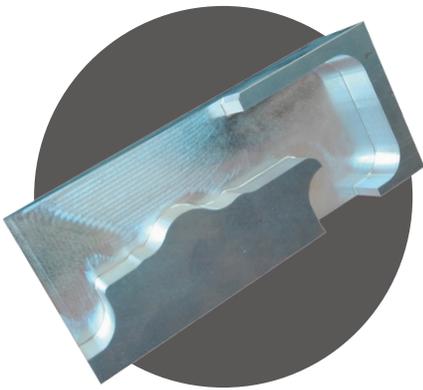
GO2cam v6.03 includes an optional new roughing cycle particularly adapted to hard materials. This patented technology is a major step forward in adaptive roughing and reduces considerably the production costs.



Benefits

- longer tool life (up to 4 times)
- shorter machining time (up to 95%)
- hard material machining (titanium, inconel, stainless steel)

mill yUGO[®]'s principle



+ supports any kind of tools (flat, radius or ball end cutters)

+ compatible with any kind of machine (old or new)

The roughing machines large Z steps (A_p) using the full length of the flute with a smaller XY stepover (A_e) and then machines the intermediate levels up to the part. The process is repeated until the entire part is fully machined. The result is an extended tool life up to 4 times.

With millyuGO, the tool remains on the part as much as possible and the toolpath automatically switches from spiral to trochoidal tool movements when the geometry of the part requires. This toolpath prevents sharp angles, full cuts and abrupt changes in direction so that the tool can keep an average speed close to the programmed feedrate. The time saving can reach 95%.

With the adaptive roughing, tool wear is spread evenly across the cutting surfaces and the center of force is half-way up the tool. This toolpath induces constant velocity and less vibration which enables hard materials machining, like titanium, inconel or even stainless steel, used in aerospace, for instance.

millyuGO[®]'s technical characteristics

- Required information to use millyuGO efficiently

MATERIAL

Hardness

TOOL

Cutting speed (V_c)

Flute feed (F_z)

Number of Flutes

Chip thickness

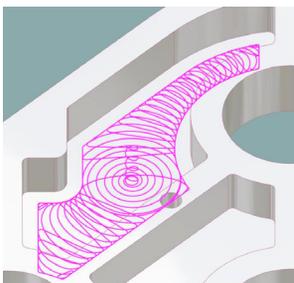
MACHINE

Max RPM

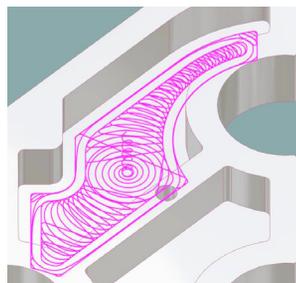
Max feed

Max power (N.m)

- Management of clearing area

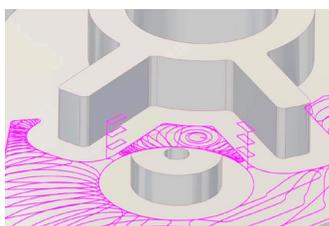


or



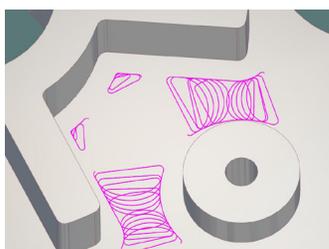
millyuGO can be parametered to manage clearing areas in 1 or 2 step(s), according to the user's preferences.

- Full width cut



Each time the tool must take a full-width cut, millyuGO automatically adapts A_p .

- Rest machining management



millyuGO optimizes finishing toolpaths too. Material which has not been removed with the previous bigger tool can be machined again with smaller tools thanks to automatic re-machining toolpaths.

mill yUGO[®]'s resellers

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www.techsoft.at

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System Technology Srl
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