
« TWISTER » turning
TISIS Optimove

Contenu

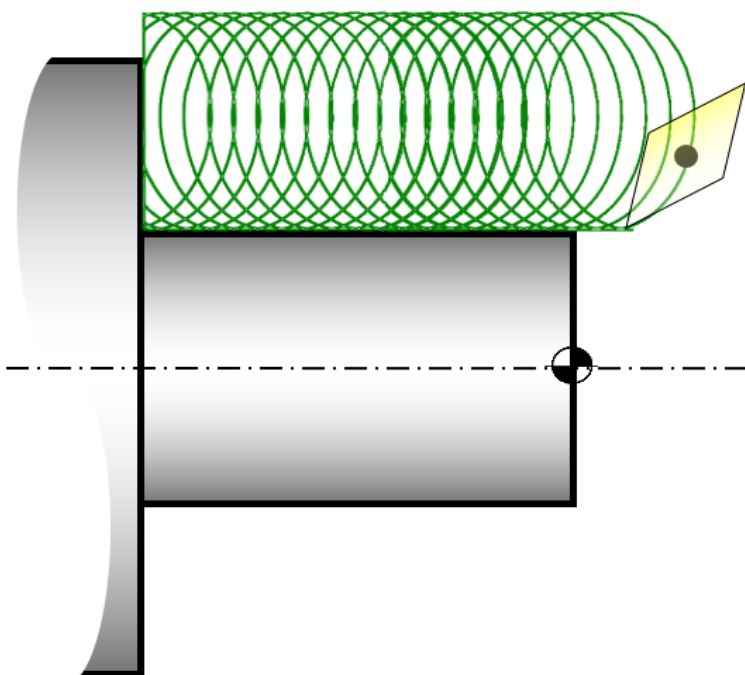
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1 Turn differently !

TISIS Optimove now benefits from a new innovative turning process.
The "TWISTER" turning.

2 The process and its advantages

The process consists of turning by a succession of ellipses.

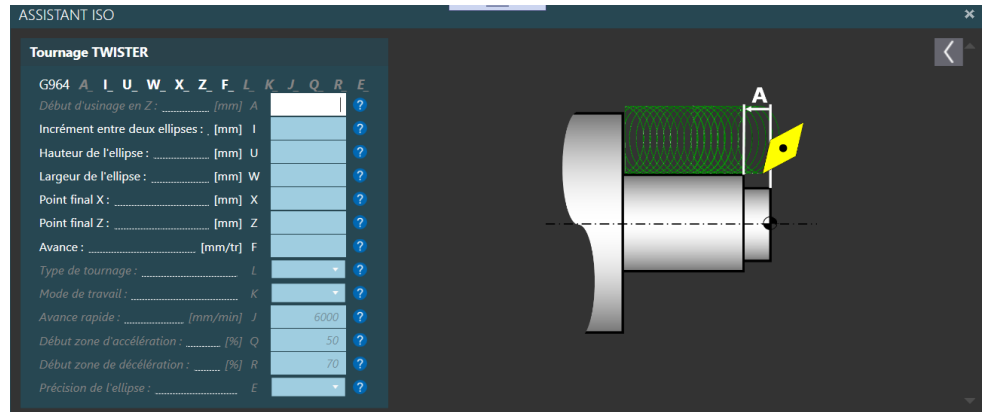


This process has many advantages :

- Reduction of cycle time
- No return to guidebush
- Short chips
- Low cutting force
- Easy to turn very long diameter of small dimension
- Several working methods possible
- Quick and easy to program

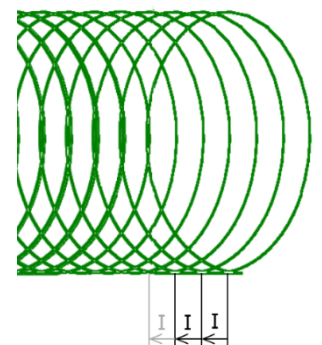
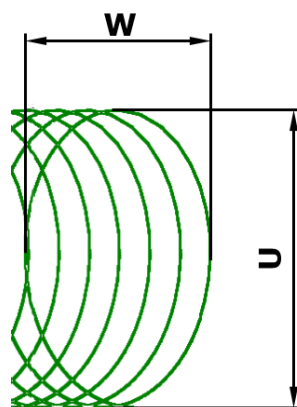
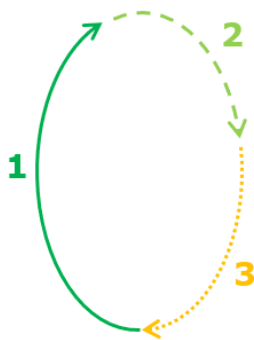
3 Programming

The function can be programmed by macro G964 and its assistant.



The function has many configuration possibilities to answer:

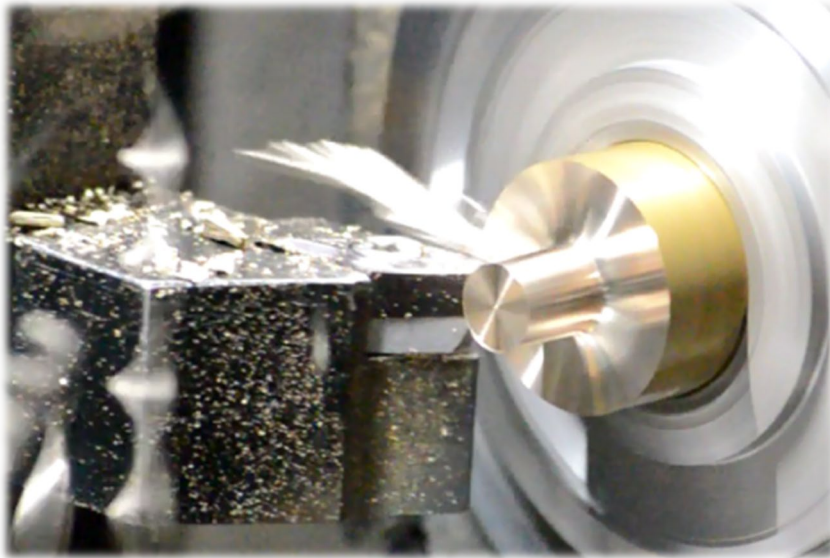
- To different types of materials
- Different types of chisels
- With the desired qualities
- At the best compromise between cycle time and surface finish



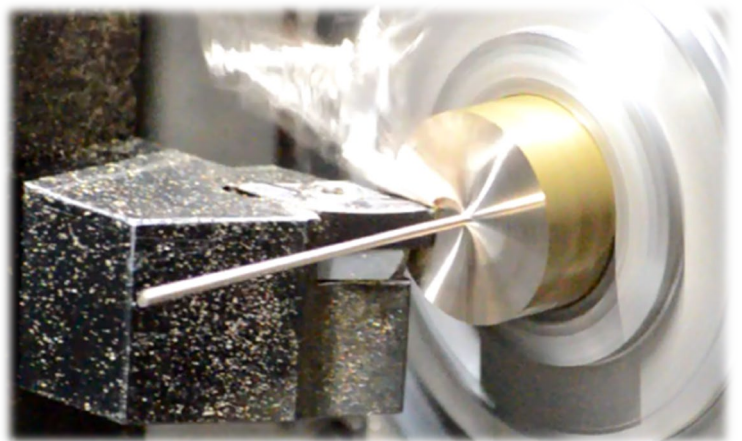
4 Working methods

Here are some concrete examples of working methods:

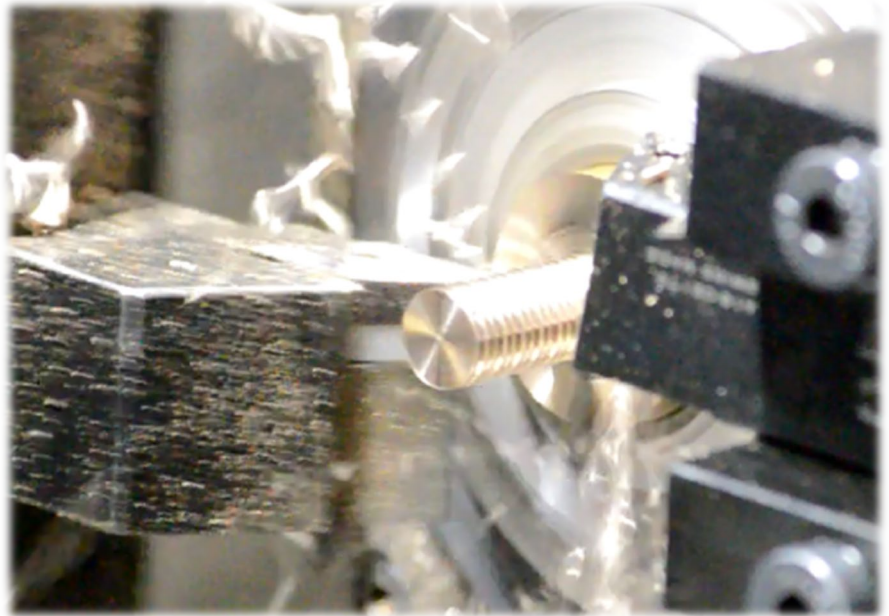
- 1) "TWISTER" turning with a single tool in finishing mode



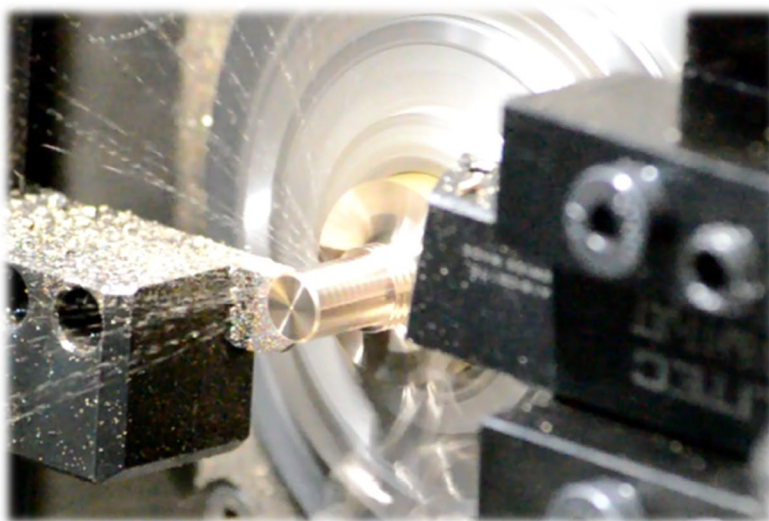
- 2) "TWISTER" turning with a single tool in finishing mode with a very small and very long diameter



- 3) Double roughing "TWISTER" turning.
Two chisels, located on two different tool systems, make the elliptical movements, crossing each other in turn. It is so possible to remove a maximum of material in a minimum of time. It is then possible to do a finishing turn with a third chisel.



- 4) Simultaneous roughing-finishing "TWISTER" turning.
With two chisels located on two different tool systems, the first of which performs roughing by the elliptical movements of the Twister, and the second which simply follows the machining of the diameter in finishing mode.



5 Availability

The function is available on all Optimove machines as well as on ISO machines via the "TISIS Post-processor" function.
Valid from version 3.4 of TISIS.