Postprocessor Optimove
ISO machines

Contenu

1 Go even further with TISIS

TISIS Optimove is the software which allows the programming of high-end machines from Tornos. With powerful algorithms, the computer "Optimove" generates trajectories of very sharp axes. It becomes very easy and fast to program complex trajectories without having to use CAM.

Since TISIS version 3.4, ISO machines also benefit from the potential of "Optimove" algorithms. Indeed, a post processor has been developed to directly output the precomputed ISO code in the part program of ISO machines.

2 Postprocessor operating principle

The principle is very simple, the programmer informs his machining operations using G9xx macros as if they were usual functions, and the postprocessor automatically compiles the ISO lines.
The part program remains very easy to read because the lines of codes generated are hidden. If necessary, it is possible to view them very easily.
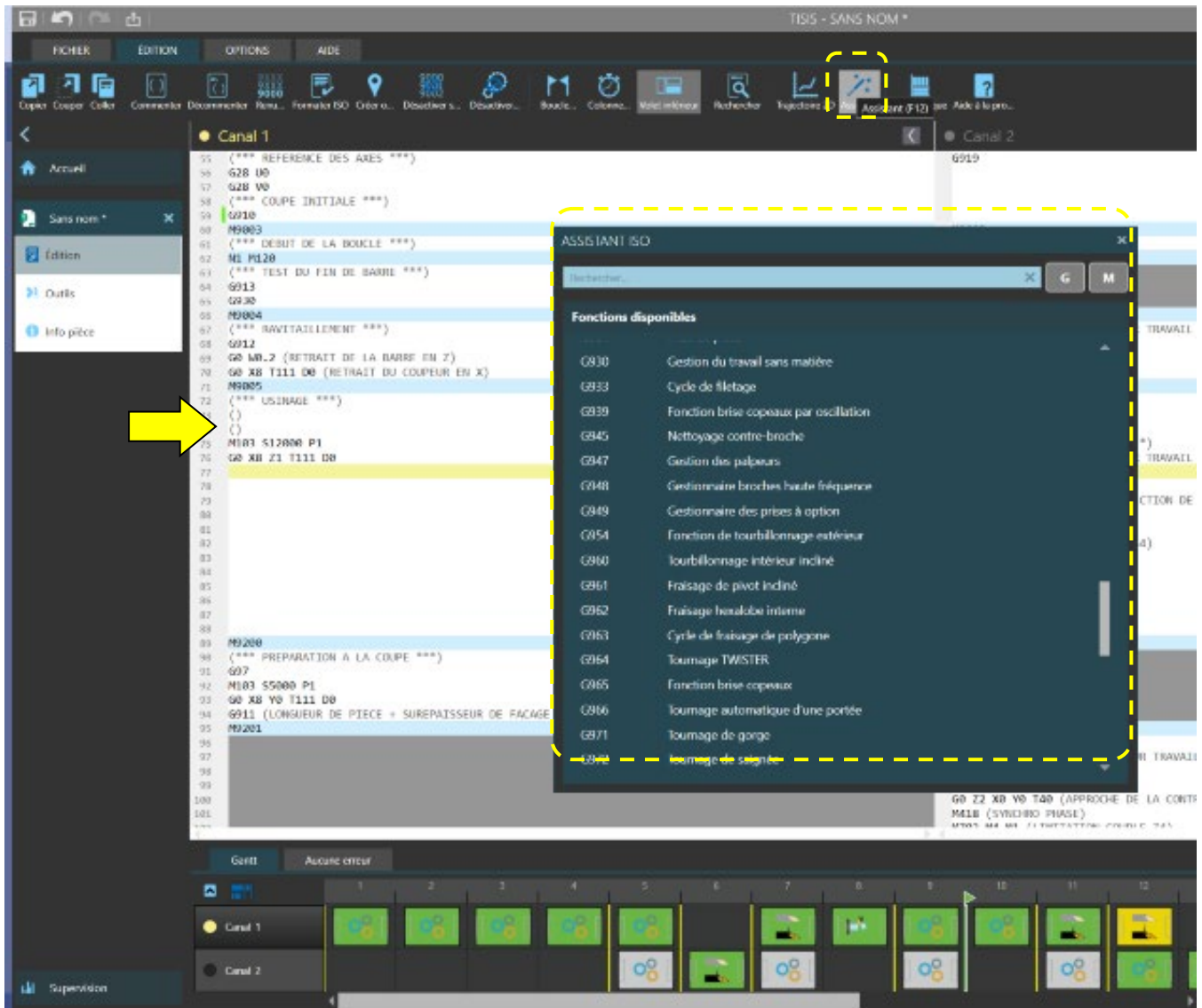
```
62  N1 M120
63  (*** TEST DU FIN DE BARRE ***)
64  G913
65  G930
66  M9004
67  (*** RAVITAILLEMENT ***)
68  G912
69  G0 W0.2 (RETRAIT DE LA BARRE EN Z)
70  G0 X8 T111 D0 (RETRAIT DU COUPEUR EN X)
71  M9005
72  (*** USINAGE ***)
73  ()
74  ()
75  M103 S12000 P1
76  G0 X8 Z1 T111 D0
77  G966 A2 B2 F0.2 H1 I0.1 J0.02 K0.18 X5 Z-12
78
79
80
81
82
83
84
85
86
87
88
89  M9200
90  (*** PREPARATION A LA COUPE ***)
```

A standard line of code

```
62  N1 M120
63  (*** TEST DU FIN DE BARRE ***)
64  G913
65  G930
66  M9004
67  (*** RAVITAILLEMENT ***)
68  G912
69  G0 W0.2 (RETRAIT DE LA BARRE EN Z)
70  G0 X8 T111 D0 (RETRAIT DU COUPEUR EN X)
71  M9005
72  (*** USINAGE ***)
73  ()
74  ()
75  M103 S12000 P1
76  G0 X8 Z1 T111 D0
77  G966 A2 B2 F0.2 H1 I0.1 J0.02 K0.18 X5 Z-12
78  Code généré :
79   1 G0 Z2.02
80   2 G0 W-2
81   3 G1 X5.2 F0.2
82   4 G1 U0 W2.5 F0.2
83   5 G0 X8
84   6 G0 W-0.5
85   7 G0 W-2
86   8 G0 W-2
87   9 G1 X5.2 F0.2
88  10 G1 U0 W2.5 F0.2
89  11 G0 X8
90  (*** PREPARATION A LA COUPE ***)
91  G97
```
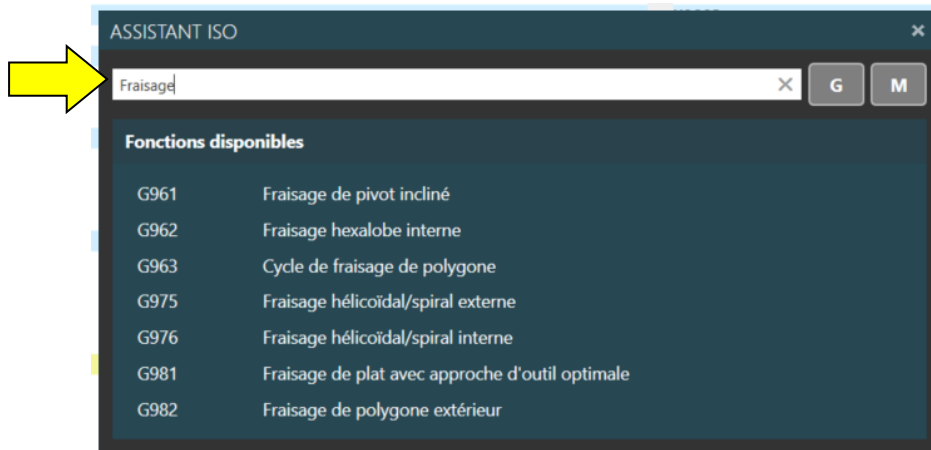
Viewing the generated code

3 Let the assistants guide you!

Now it's easier than ever to program your rooms.
Indeed when the mouse pointer is on an empty line, you can click on "Wizard" (F12). A pop-up opens to offer you all of the available functions.
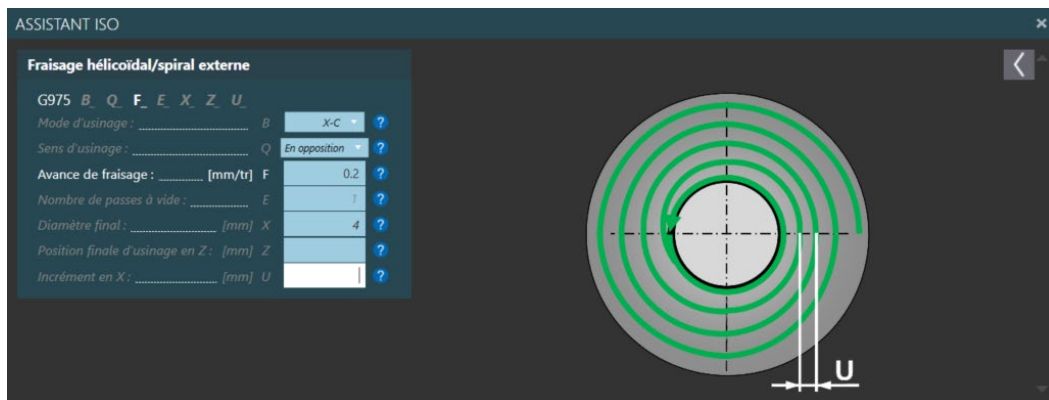
Trucs & Astuces

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You can then search for a function in the list, or even more quickly, via the search bar which will filter the corresponding functions.
Example: by typing "Milling" the system will only offer you the milling macros.

Once the function has been selected, the usual interactive wizard will guide you through the setting of the function.

Another significant advantage is that it is no longer necessary to memorize the innumerable quantity of M codes to control the devices of your machine. Here too you can use the wizard which will offer you a piloting G code for each of your devices.