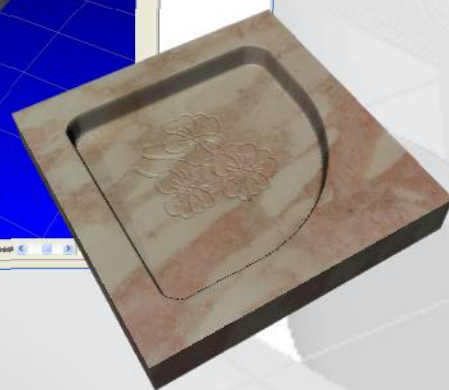
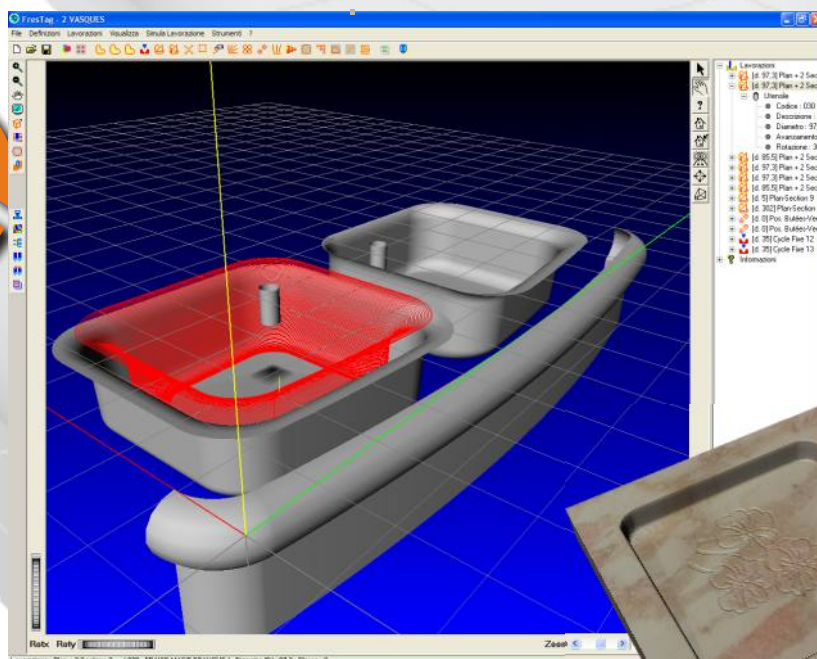


# MILLING FOR WORK CENTRES WITH PALLET CONTROL AND ROTARY TABLES



## MAIN FUNCTIONS

- Three-dimensional processing simulation and display
- Multiple planes
- Independent Cnc
- Profile acquisition
- Parallel slot contouring
- Concentric slots
- Plan - Section
- Concave-Convex
- Copying of processings
- Fixed cycles: drilling, spot-drilling, reaming, spot-facing etc...
- Tool store
- Post Processor management
- Sheet cutting

**Frestag** is a milling program for work centres with pallet control and rotary tables which can operate on planes oriented in space.

Designed for controlling all types of material removal processings using rotary tools, this is the first in a new generation of "expert" programs capable of helping operators by making automatic selections based on the experience of past processings. A user-friendly interface guides the operator through the various steps with no chance of error. There are no limits to the complexity of the profiles or the number of elements that can be processed, and any collision areas due to profile intersections are detected automatically.

Each processing performed in space is reproduced onto an X-Y plane and then rototranslated into its original position, making the machining sequence simple and intuitive to apply. The position with respect to the applied planes is then simulated in a display. All the cycles are performed irrespective of the NC features and the machine geometry.

Frestag and the Post Processor pilot the machine tools available on the basis of their technological features, controlling rotary tables, indexed heads with five or more interpolated axes, every type of tool change, head changes, lubrication etc..

Machinings can be performed on 3D models of surfaces or solids using 3-dimensional CADs.

Profiles can be defined using the Cad program supplied (Logotag), or by acquiring standard graphic geometries such as:

DXF, DWG, EPS, PLT, IGS, DSTV

The “intelligent” import module automatically solves any problems resulting from an incorrect execution of drawings for NC processing.

Processing cycles which are independent from the machine used, and parametric by means of a special milling language.

Deep and helicoidal drilling

Spot-drilling

Spot-facing

Reaming-reaming with release

Boring

Bore milling

Tapping

FORA cycle

FOMA cycle

Facing

Complete freedom in the assignment of the machining cycle sequence

Ordering criteria based on tool sequence or on the type of processing cycle

Contouring of open and closed profiles

Emptying of slots by parallel passes

Emptying of slots by concentric passes

Plan-Section processings

Plan 2 Section processings

Concave-Convex for ribbing or tubular sections

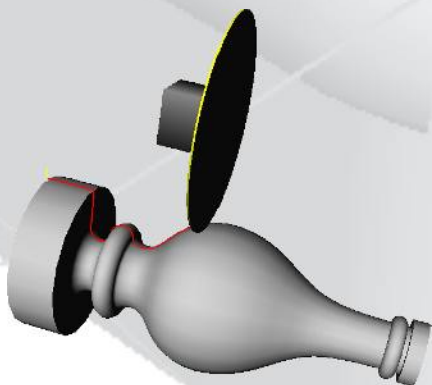
Polishing with helicoidal passes

Manual machining

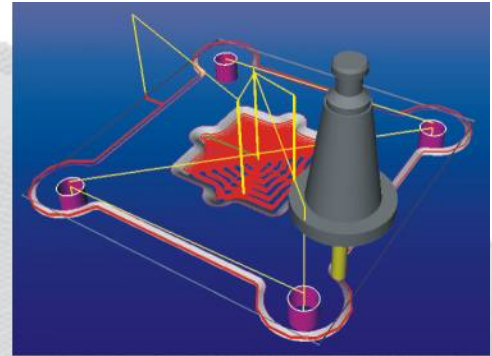
Insertion of back-stops and suction cups

Tapering, drain, turning and drilling optimization

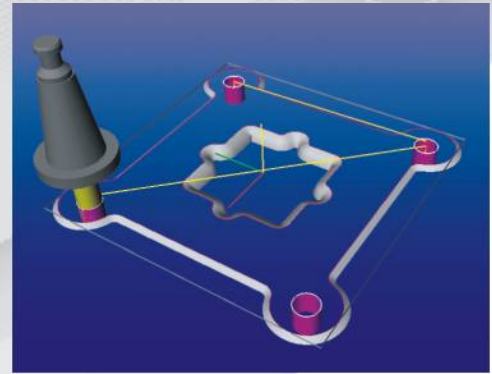
Contouring of 5 surface axes



### Plan-Section processings



### Drilling



All the processings are performed using spherical, toric, bar and blade tools.

The applications also include metallurgical and mechanical processings in marble, glass, wood, plastic panels, and all machinable sheets in general.

By exploiting different technologies depending on the field of application, Frestag offers functions designed for disk machining, area polishing cycles, macros for repeated processing cycles (such as sink tops, sink forming, etc.), automatic or manual positioning of suction cups, back-stops for the fixing of parts, etc.

Innovative laser copying and point tracing systems can also be used to apply smoothing and 3D model machining functions to meet the most demanding requirements.

Panel or sheet processings are optimized, reducing scrap by means of interlocking nesting, saving time on tool changes.