STYLE and CAD/CAM

A way of practising for the factory of the future?

Felice Ragazzo, designer

I intend to expose a theory that is rather simple and concrete, but since the common sense seems to elude its premises, I will not find it strange if they appear paradoxical.

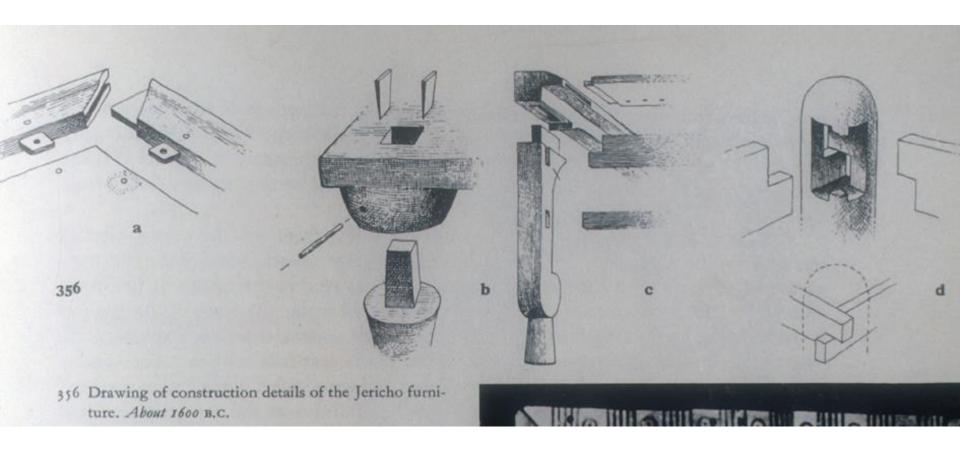
The theory consists in considering the industry of furniture in style as a virtuous laboratory presently operating for the factory of the future and for a new era of design.

Let's take a look at the basics:

 the style requires the elements of the piece of furniture to be characterized by a peculiar formal complexity, especially in its decorations;

- before the advent of mechanization, such complexity technically depended on **manual ability**.

Brief historical examples:



Constructive details of furniture. Gerico, about 1600 B.C. It is already possible to recognize marks of nowadays method. We can assume elementary techniques.

Ante litteram design: details of Borromini's library in San Carlino

alle Quattro Fontane - Rome.



It is an archetype which is philologically and organically connected to the present production.

The figurative variety of wooden details, Palazzo Farnese - Rome.



In the Prime Minister room alone we find 10.000 palmettes, 10.000 lilies, 10.000 acanthus *girali*, hundreds of meters of lathed astragals.



Palmettes, lilies, girali, astragals, ...

An enormous amount of work in XVI and XVII century's Rome.

The sublime resides in the floral decorative details



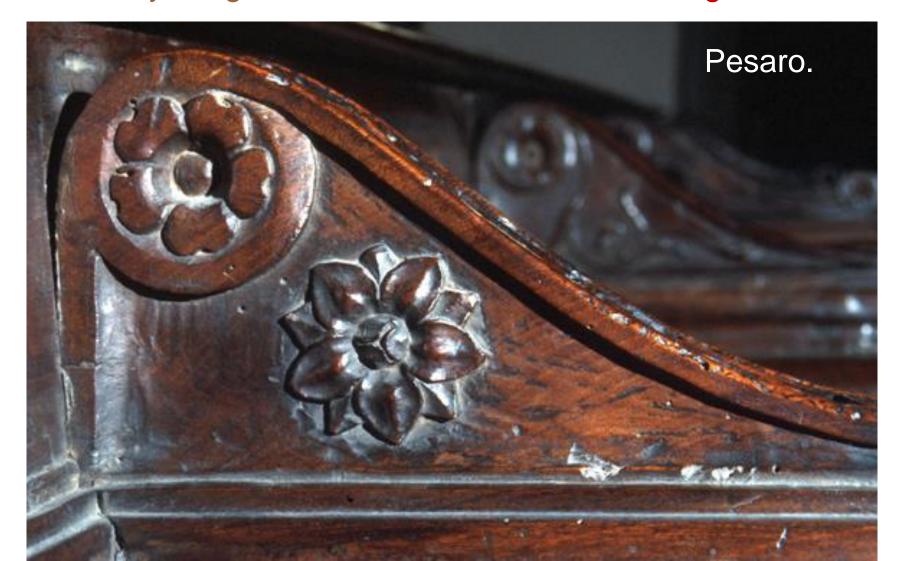


P. Farnese – Rome. Writing desk. The figurative profusion of the angular articulation transforms the technical complexity of the junction. Nature, artifice, references to the classical world.

P. Farnese – Rome. Flower basket hanging to the floor.

Technical symbiosis between woodturning, gouge and plastering. The scratching on the gouges look like scannings of a round milling cutter.

The masterly intaglio of Renaissance - Coro di S. Agostino,



Now that production processes are **mechanized** and **computerized**:

- furniture in style as a framework gets more and more assimilated to the furniture of other categories,
- decorations which are formally complex can be easily realized through CAD/CAM systems, improving their technological potentialities.

Very often, though, technology offers shortcuts:





A fake-authentic resin cast of a shelf, realized with a silicon rubber mould and then processed as imitation wood. The snares provided by chemistry.

However, the use of CNC is by now a consolidated praxis.

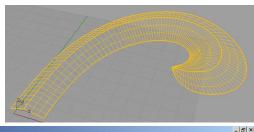
But the point is: at which level of complexity are CAD/CAM technologies used today?

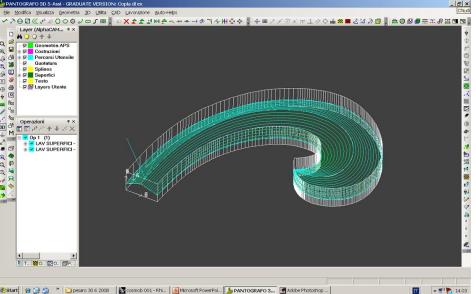
It is well-known how they are used at a low technological standard, much under their real capability.

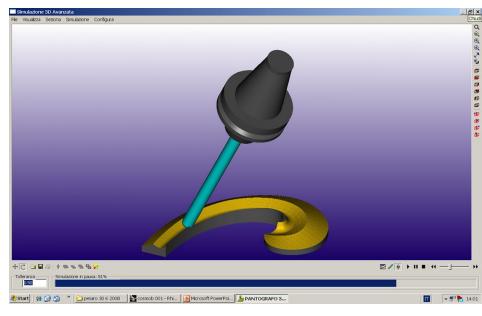
And, strangely enough, precisely with the furniture in style the technological standard - generally carried out - is tried to the limit, depending on the objective formal complexity of its details.

A petal of lilies by way of example...









CAD and CNC as a replacement for pencil, gouge and mallet (and silicon mould). New semblances for the past.

How can we interpret this phenomenon?

We will try to do it this way:

The present praxis, in a multitude of companies that are scattered all over the world, actually constitutes a widespread laboratory in which to experience (consciously?) a use of advanced technical equipments like CNC's which is geometrically more sophisticated.

Who will benefit from such an advantage?

Notwithstanding the style ...

a new era of design which will predictably be born from the ashes of the present one, and which - in terms of a new and unexplored figurative frame of mind - will be favoured by the creative potential, which will be workable thanks to the technological advance.