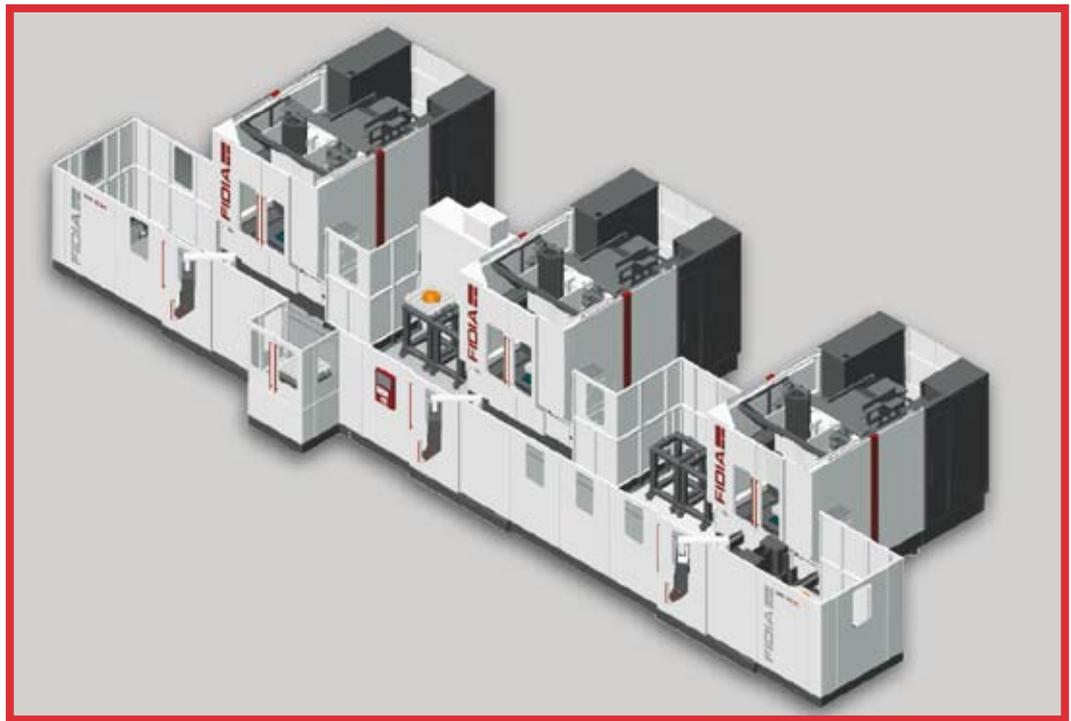


# FMS

## Flexible Manufacturing System



**FIDIA**   
Giving shape to design



## Flexible Manufacturing System

The new FMS system designed by Fidia is equipped with a sophisticated software that optimizes and exalts its operative characteristics. This system is the Fidia answer to the more and more pressing request of increasing the workshop automation level, and integrates a powerful and versatile pallet system shared between more than one G996 machine.

The FMS platform serves independent working islands of minimum 2 machines each, and allows for the complete machining of complex components in 3 or 5 axes, starting from the rough part.

This system is the ideal solution for a highly developed workshop environment, requiring the best standards of automation levels.

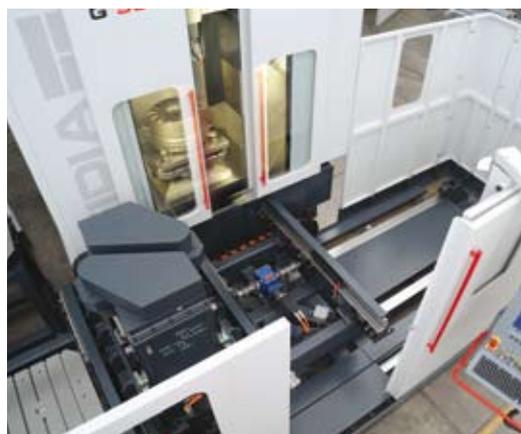




The powerful dedicated software automatically manages and optimizes the production flow without intervention of the machine operator. Such a way of functioning pursues the following goals:

- reduction of waiting times;
- simplification of programming;
- optimization of tool wear-out;
- full monitoring of production flow;
- reduction of human error risks;
- never-ending 7/7 & 24/24 production.

Each machine can be also used in a standalone way, nonetheless granting the normal functioning of the FMS system with the other machines.





## Dedicated FIDIA automation

By drastically reducing machining times, new high-speed milling centres have revolutionized the workshop.

As a result new requirements for optimizing the production process have become apparent.

Handling and setup times become the new "bottleneck" preventing the machinery being used to maximum advantage, even during unmanned machining operations.

Using automatic workpiece magazines increases machine tool autonomy and simplifies setup, offering both extreme flexibility and accuracy.

The models proposed can be interfaced with the most widely used palletizing systems, satisfying the requirements of mould and die-makers for small machine tools.

The machining of copper or graphite electrodes, models, aluminium parts and steel blocks can now be mass produced easily and economically.

Fidia has designed several solutions that typically apply to various fields:

- **MP 630** multi pallet loader for heavy weight moulds;
- **WPM 16/16** model loader for the footwear industry;
- **WPM 50/16** loader for electrodes and aluminum moulds;
- **WPM 80/8** loader for moulds in the tire industry and in the steel plugs sector.



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