

▼ A solid experience

▼ Attention to details

▼ Customized solutions

FIMAT has been operating in the Machine Tools market for more than 30 years. The Company started its activities with retrofits and overhauling of machines tools for the automotive industry. The experience gained over the year, the technical knowledge and the skills of its personnel, beside the support of important and selected suppliers, has allowed to FIMAT to conquer its own market spots and to propose as Machine Tools Maker. Nowadays, FIMAT operates in a recently renewed 3.000 m² building, studied for all the needs of designing, management, assembling and testing of the Machines that FIMAT constructs.



WM-TWIN



The challenge was to finish the CV Joint Cage Windows replacing the very productive 6-spindles Grinding Machines and, at the same time, matching the requests for processing cages with a number of windows different from old standard six. Thus, when FIMAT accepted the challenge, the Milling Machines of the WM-TWIN Series were born, but they can do much more than expected.



Extreme versatility

Integrated Robot

Easy to use HMI



Cage window milling machine

VERSATILITY

FIMAT propose up to 4 versions of this machine, in order to match the customer's need. The machine can be set up just for hard milling or for soft+hard milling capabilities. For each set up, one or two workheads can be assembled depending on the required cycle time. Thanks to its fully independent milling spindles the machine is able to mill CV Joint cages with both even or odd windows and allows easy corrections of the window width and automatic compensation of the milling tools diameters.



DESIGN FEATURES

All the rotative axes feature direct drive torque motors and absolute encoders with high resolution for better precision and quality. The milling spindles are suitable both for hard and for soft cages. Each spindle is mounted on a 2-axes slide (for hard milling) or on a 3-axes slide (for soft+hard milling).



LOW ENVIRONMENTAL IMPACT

The machine has been designed hydraulic free; dry milling process, electric workpart clamping, permanent grease lubrication. No oil is used for a lower environmental impact.



TECHNICAL DATA

Length	2200 mm
Width	2200 mm
Height	2500 mm
Weight	9000 kg

WORKPART DATA

Max Diameter	90 mm
Min Diameter	47 mm
Number of windows	From 4 to 12

AXES STROKES

Transverse Axes Z1 - Z2	30 mm
Vertical Axes Y1 - Y2	40 mm
Longitudinal Axes X1 - X2	210 mm
Indexing axes TPP1-TPP2	0° - 360°
Revolver	0° - 180°

MILLING SPINDLES

Power	12 kW
Tool-holder connection	HSK63

MILLING TOOLS

Min Diameter	12 mm
Max Diameter	14 mm
Material	CBN fro dry milling

ELECTRIC SYSTEM

CNC	SIEMENS 840D SL
NCU	730.3B-PN
PLC	S7-300
HMI	OP12 - MCP483
Installed power	75 kW

Worldwide solutions

FIMAT
MACHINE TOOLS

1981-2011
30
years experience

IMPRESA
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Our best customers



RENAULT
Passion for life



CLAAS



FCA
FIAT CHRYSLER AUTOMOBILES

GETRAG



GKN
Driveline



REFIL



MAGNETI
MARELLI

oerlikon
graziano



PIAGGIO
GROUP



PSA
GROUPE

REDUCTOR PM
MANUFACTURER OF COMPONENTS



LEONARDO



Volkswagen



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WM-TWIN



CAGE WINDOW MILLING MACHINE



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