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







#### VERSATILITY

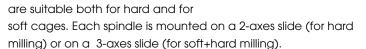
FIMAT propose up to 4 versions of this machine, in order to match the customer's need. The machine can be set up just for hard milling or for soft+hard milling capabilities. For each set up, one or two workheads can be assembled depending on the required cycle time. Thanks to its fully independent



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



### 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 lowe 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

TECHNICAL DATA



## Worldwide solutions









### Our best customers























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# **WM-TWIN**



CAGE WINDOW MILLING MACHINE