



NEW LAM[®] M'M'

LAPPING AND POLISHING SYSTEM

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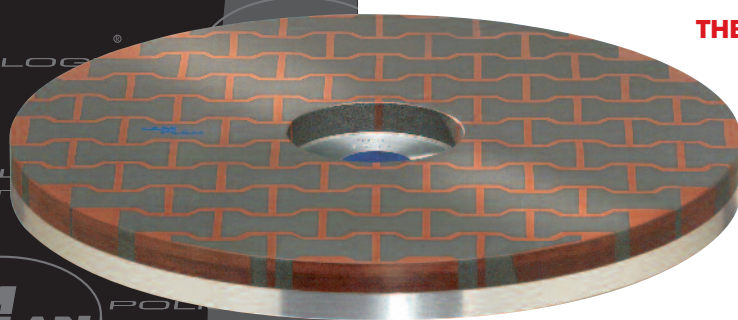
PRODUCT DATA SHEET

25 years ago LAM PLAN[®] was already innovating with launching of the NEW LAM[®] M'M' patented Lapping System. LAM PLAN[®] improves continuously its system to answer all new technical requirements of customers.

The system patented in France, Europe, USA, Japan, Korea, etc., is unique and unequalled in the Lapping-Polishing process.

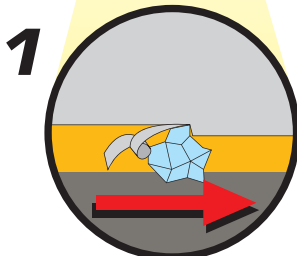
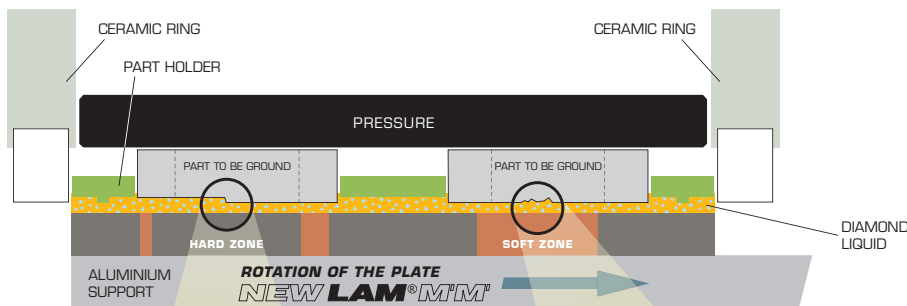
The NEW LAM[®] M'M' plate finds its origin in the LAM PLAN[®] abrasion technique and uses the free diamond abrasive for its functioning.

As soon as the plate rotates, under the effect of the initial weight of the parts and of the load applied by the pneumatic cylinders of the machine, the diamond grits alternately move and get settled to ensure an abrasive action on the surface of the parts to be lapped.

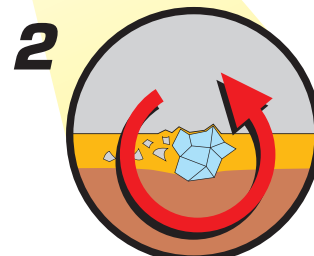


THE PATENT

The shape and the distribution of the two components of the plate, allow an optimum alternation between the hard and soft zones, that insures the FLATNESS of the part and modifies permanently the cutting angle of the diamond grit, to guaranty a high return.



The free diamond contained in the abrasive film momentarily settles in the hard material of the plate. When assembled they produce a CUTTING effect that achieves the STOCK REMOVAL.



In contact with the soft material of the plate the free diamond sinks while remaining mobile, it is the CHOCKING effect that contributes to the quality of the SURFACE CONDITION.



MORE EXTENSIVE FIELDS OF APPLICATION

- The NEW LAM[®] M'M' polishing and lapping system can be used in manual as well as automatic mode.
- The NEW LAM[®] M'M' is designed to meet the requirements of maintenance and production works.



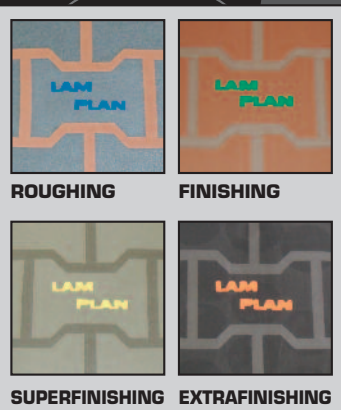
CERTIFIED
ISO 9001
VERSION 2000



NEW LAM M'M' COLOUR CODIFICATION

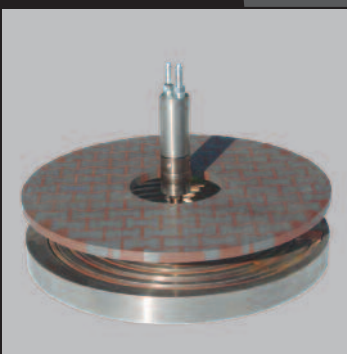
The colour codification of the NEW LAM® M'M' carriers and of the abrasives facilitate their identification and the memorization of the range of polishing and lapping products. Risks of errors of handling are eliminated.

This colour system works according to the shades of the rainbow, the blue being the coarse and the red finish.



COOLING SYSTEM

A cooling system forming an integral part of the NEW LAM® M'M' plates regulates automatically the maintenance of their optimum temperature during high production or long lasting operations.



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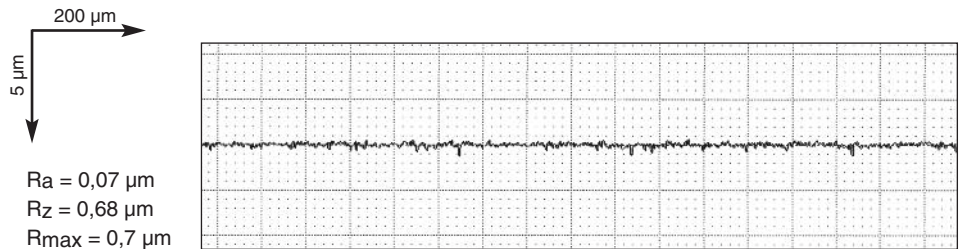
Advantages of NEW LAM® M'M'

Increased technical capacities

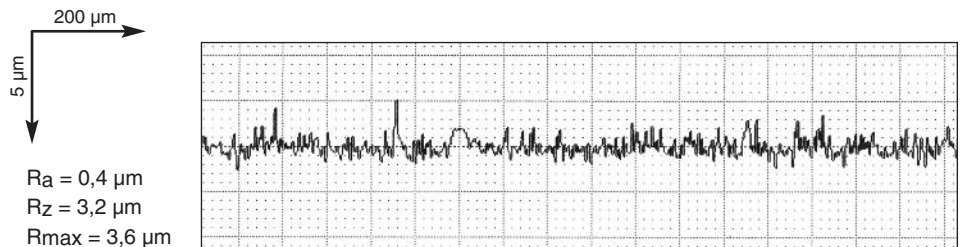
The NEW LAM® M'M' plate is characterized by high capacities in the fields of lapping and superfinishing of flat parts.

- **Durability** : the manufacturing processing increases by 50% the usable life of the NEW LAM® M'M' coatings.
- **Productivity** : with these new plates the stock removal is increased up to 40 % with a Blue NEW LAM® M'M' plate.
- **Surface quality** : the surface finish is improved up to 25 % with a Green NEW LAM® M'M' plate.
- **Flatness** : the increased stability of the plate improves the flatness of the parts.
- **Constancy** : the abrasive film is homogeneous and stable on the entire surface of the plate.
- **Efficiency** : immediate brilliance of the lapped surfaces for a direct control with monochromatic lamp.

Comparison between lapping-polishing with the NEW LAM® M'M' system and conventional lapping.



Lapping-polishing **NEW LAM® M'M'**



Conventional lapping

		LAPPING-POLISHING NEW LAM® M'M'	CONVENTIONAL LAPPING
PART		Packing ring	Packing ring
MATERIAL		Stainless steel	Stainless steel
LAP		Green NEW LAM® M'M'	Grooved cast iron
ABRASIVE		Blue	Aluminium oxide + oil
MATERIAL REMOVAL		2,4 µm/min.	1,8 µm/min.
SURFACE QUALITY	Ra	0.07 µm	0,4 µm
	Rz	0.68 µm	3,2 µm
	Rmax	0.7 µm	3,6 µm
ASPECT		Shining	Dull finish

