



## SPECIAL CYLINDER LINERS

After more than forty years' experience as the most important Italian company in this sector, **LA MECCANICA 4M** produces special, small and medium series of cylinder liner for diesel and petrol engines in centrifugal lamellar cast iron, with a bore ranging from 50mm to 170mm; we use centrifugal ductile perlite cast iron for racing engines/applications where high tensile strength is required. We can produce any cylinder liner, even a single item, **based on a sample or drawing in a maximum of 24/48 hours.**

For high-performance engines we co-operate with a leading Italian company which enables us to provide our customers with quality forged pistons that are the result of increasingly advanced solutions

For more information:

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**4M QUATTRO  
EMME**

LA MECCANICA 4M S.R.L.

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### OUR CAST IRON

La Meccanica 4M has always been committed and involved in the research and development of the best materials, essential to guaranteeing the highest quality products that distinguish our "Made in Italy" mark.

Thanks to three different cast iron chemical composition specifications we are able to satisfy any request our customers may have, starting from liners for vintage cars to liners for the latest generation of engines.

#### 4ML1

Centrifuged perlitic lamellar cast iron is used for the production of almost all our cylinder liners.

Application: wet and dry cylinder liners, in four and two-stroke cycles for naturally-aspirated engines and turbo engines.

*TENSILE STRENGTH - 240 ÷ 270 N/mm<sup>2</sup>*

*HARDNESS - 220 ÷ 240 HBS*

#### 4MCrMo

Chromium molybdenum centrifuged lamellar cast iron, where high parameters of hardness and the presence of steadite reticle distribution (which guarantees greater resistance to wear in the sliding area of the rings), make it suitable for motor racing engine applications.

Application: wet and dry cylinder liners for racing, where high mechanical characteristics and wear resistance are required.

*TENSILE STRENGTH - 290 ÷ 320 N/mm<sup>2</sup>*

*HARDNESS - 260 ÷ 300 HBS*

#### 4MS4

Centrifuged ductile perlitic cast iron for the construction of "racing" liners where the engine stresses are extremely high.

*TENSILE STRENGTH - min 600 N/mm<sup>2</sup>*

*HARDNESS - 270 ÷ 330 HBS*