



Regina Catene Calibrate S.p.A. Via Monza, 90 - 23870 Cernusco Lombardone (LC)  
Telefono +39 039.99801 Fax +39 039.9905229 www.reginachain.net

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Regina presents the innovative and revolutionary Z-Ring chain

### High Performance Endurance (HPE)

which eliminates the periodic re-lubrication that motorcycle riders must perform every 1,000 km.

Extensive lab and street testing demonstrate that the HPE chain has a useful life that is at least equivalent, if not greater, than a traditional regularly re-lubricated Z-Ring chain.

The hydrogen-free Tetrahedral Amorphous Carbon (ta-C) coating, currently considered as the most advanced among DLC (Diamond Like Carbon) coatings, is applied on the surface of the bushings and rollers of the HPE chain.



The ta-C coating reduces energy dissipation and increases efficiency in the secondary transmission, combining the very high hardness of the coated surface with a low coefficient of friction.

The elimination of chain cleaning and lubricant spatter during operation minimizes environmental impact.

The innovative ta-C coating process was developed through intense R&D activity of Regina engineers and is entirely carried out in our Cernusco Lombardone (LC) plant in Italy.

Picture 1 – HPE chain section.



“The elimination of the periodic re-lubrication and the greater efficiency of the transmission raise the HPE chain to an extremely advanced technological level compared to traditional sealed chains, unthinkable until today and unparalleled on the market;” said Paolo Garbagnati, CEO of Regina. “We would like to thank all the women and the men who made the achievement of this important goal possible, including all the passionate riders, who, confidentially and professionally, contributed to the project with many extensive test rides.”

HPE chain transmission does not need coated front and rear sprockets.

The HPE chain will be available on the aftermarket starting January 2021.



*Picture 2 – The HPE chain.*