



refracar[®]
ITALIA

Product line

THE WHOLE REMANUFACTURED STEERING SYSTEM, LIKE NEW



DISMANTLING



ASSEMBLY



TESTING

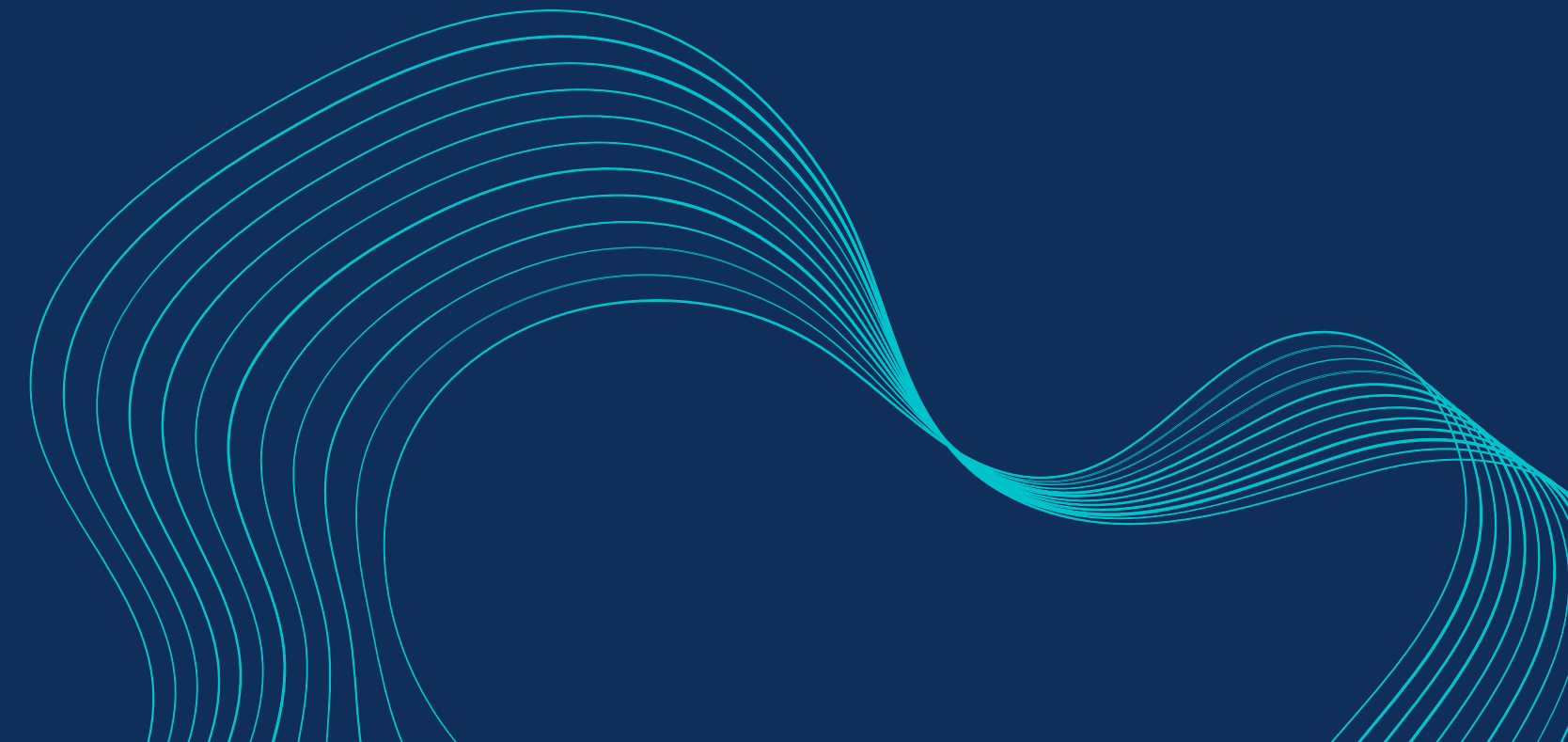


READY TO DELIVER

MANUAL STEERING RACKS

The mechanic (or manual) steering rack is the most basic mechanism of the steering.

The steering wheel, through the steering column, transfer his movement to the pinion and let the rack slide. The sliding rack allows the movement of the wheels.



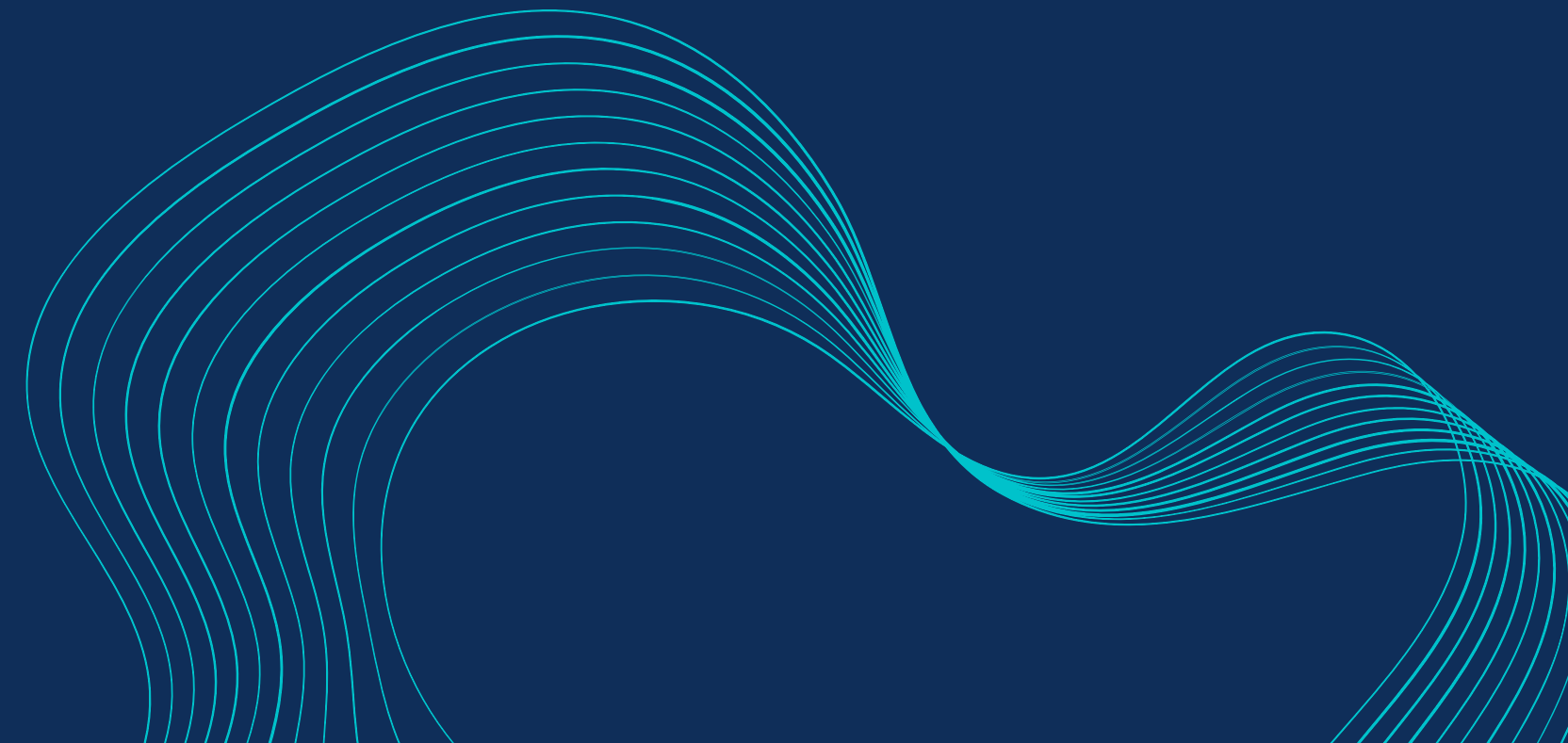


POWER STEERING RACKS

The power steering rack is the evolution of mechanic steering rack.

The movement of the crackshaft, connected to the steering pump by the belt, let the oil passes through the pump and the steering rack.

The pressure of the oil let the worm under the pinion turns according to the movement of the steering column, moving with the steering wheel.



ELECTRIC STEERING RACKS

The electric steering rack, in addition to the functions of a classic mechanical steering rack, provides the electrical assistance in steering: the rotary movement of the steering wheel is transformed into a translational movement that allows the movement of the wheels. An electric motor controlled by a control unit facilitates this movement by providing the necessary power assistance, based on the speed of the car and the force applied to the steering wheel and measured by a torque sensor mounted between the steering column and the pinion.



ELECTRIC STEERING COLUMN

The electric steering column (EPS) has replaced the power steering system in small and medium sized cars and has become the most used solution on segment A, B, and C cars due to its efficiency, reliability and compact structure. Located directly behind the steering wheel, on the steering column, it consists of a control unit, an electric engine and a torque sensor, and provides assistance in wheel rotation, based on the speed of the car and the force applied to the steering wheel.





HYDRAULIC STEERING PUMPS

A pump is a hydraulic operating system that uses mechanical parts moving (rotary or rectilinear) to lift or to collect fluid material.

A pump operates in a closed environment, between a suction and a delivery duct. In dynamic pumps (operating tubomachines) the flow is continuous (stationary), while in volumetric pumps it is discontinuous (unsteady).



ELECTRIC STEERING PUMPS

The electro-hydraulic steering pump, in combination with a power steering rack, is a power steering system with the electric part which set a higher accuracy on the driving movements and a more comfortable feeling for the driver than the traditional hydraulic system: the control unit of the pump detects in real time the speed of the vehicle and, accordingly, regulates the pressure for the oil passage and the quantity of electric assistance, so when the vehicle is stationary or at low speed, the steering wheel is light and fast in rotation; while it will be heavy and move more slowly at higher speed.



facar[®]

ITALIA

CONTACT:

Via Achille Grandi 5/7
66100 Chieti (CH)
ITALY

| export@facar.it
+39 3452562880