

Electronic

MGE150 & MGE1000 • GEARLESS MOTORS FOR MAJOR ROTATING BEACONS



La Maquinista has considerable experience in the manufacture and supply of major optical and lighting equipment for lighthouses, by using our MGE1000 & MGE150 rotating motor pedestals.

Both the MGE150 and the MGE1000 are electronic, gearless and brushless double motors.

Features

- High reliability and availability proven by field experience: Hundreds of major installations with the MGE series motors are in service all over the world.
- The MGE150 and MGE1000 are electronic gearless and brushless double motors with only one slow moving assembly (shaft, rotor and rotating dish). They have no slip rings, brushes or gears.
- Highly reliable rotating system for optical assemblies up to 150 and 1,000 kg respectively.
- Special kit for upgrading existing mercury-float pedestals, bearing optics of more than 1,000 kg weight.
- Automatic switch-over to standby unit if main drive fails.
- Finely balanced assembly with very low friction.
- Good accessibility and easy replacement of spare parts without beacon disassembly.
- Field adjustable rotational speed, any from 0.66 to 6 rpm.
- CMA130 control unit provides totally automatic operation.
- The same CMA130 control unit is used for both MGE150 and MGE1000 rotating pedestals.
- Status and alarms of motor, lamps and batteries ready for monitoring and remote control, by opto-isolated signals and RS232 serial port.



Main data



CMA130

CMA130 Control Unit

- The same CMA130 control unit is used for both MGE150 and MGE1000 motors.
- Watertight IP-67 enclosure.
- Manual and automatic motor operation.
- Operation status and alarms for both motors.
- Photocell controlled or continuous rotation (24 hours / day) selection.
- Automatic motor change.
- Control of operating status of lamps and alarms.
- Easy interface to a Telecontrol system, for automatic reporting, supervision and control of lighthouses. Serial port RS232.
- Electromagnetic Compatibility CE



MGE150

Installing a complete new rotating light system

For complete new lighthouse installations with classical glass lenses, the equipment to be installed is a MGE1000 gearless rotating pedestal, including its CMA130 automatic control unit, and a new glass cut & polished optic of 375 mm focal distance as standard. In these new or existing installations, the lampchanger usually installed is the CLC02, automatic lighthouse lampchanger, capable to hold any type of modern lamps. The CMB200 control unit for commanding the lampchanger operation is also needed.

	MGE150	MGE1000
Max weight optical assembly	150 kg	1.000 kg
Rotational speed	0,66 a 6 rpm	0,66 a 6 rpm
Accuracy of speed setting	$\pm 1,5\%$	$\pm 1,5\%$
Operating voltage ⁽¹⁾	12 - 24 V	12 - 24 V
Power consumption ⁽²⁾	10 W - 15 W	10 W - 22 W

⁽¹⁾AC operation : Any AC voltage using AC-DC converter/
battery charger.

⁽²⁾Depending on lens weight.