

MAJOR ROTATING BEACON-PRB SERIES

Pharos Marine has a wealth of experience in providing major rotating beacons for upgrades or replacements. The PRB series of revolving pedestals is designed for modern high intensity installations and may be used with sealed beacon lamp arrays, reflector systems, or conventional cut and polished glass optics. The drive mechanism used in all versions is the Pharos Marine PRB-22 gearless motor, a highly successful, reliable and economical pedestal with its control unit. It is usual for all equipment to operate automatically for long periods unattended and with infrequent simple maintenance. A radio monitoring system can be used for remote indication of status.

PRB-22 GEARLESS MOTOR FEATURES

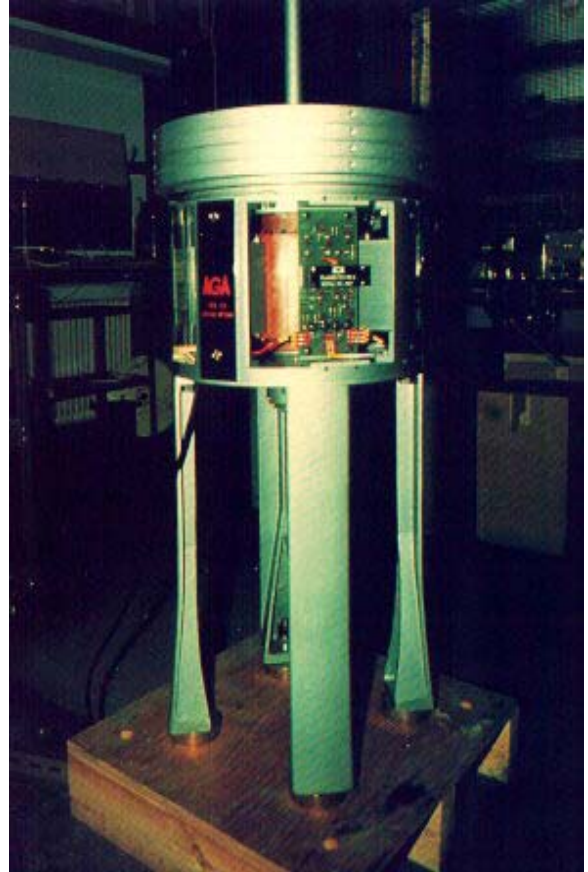
Over 300 lighthouses in service in all climates.

Only one slow-moving assembly (shaft, rotor and turntable).

No gears, brushes or contacts.

Heavy duty, self aligning thrust and journal bearings with oil bath lubrication.

Electronic speed control with adjustable pre-set speed.



Bearings, commutators and driving coils can be replaced without removing the lamp array.

Duplicated independent drive units. If one should fail, rotation will be maintained by the other drive unit.

Operates on 12 to 18V DC.

Power consumption only 4-6 watts (when driving a lamp array).

The drive control unit incorporates voltmeter, ammeter and failure, under speed and over speed indicators. These may be connected via radio or modem unit for remote indication of faults.

Pharos Marine  **Automatic Power**

AB Pharos Marine Ltd, Steyning Way, Hounslow, Middlesex, TW4 6DL, England Tel: 44-20-8538 1100, Telefax: 44-20-8577 4170

Website: www.pharosmarine.com Email: sales@pharosmarine.com

Automatic Power Inc., P.O Box 23078, Houston, Texas 77223-0738, U.S.A Tel: 1 (713) 228-5208, Telefax: 1 (713) 228-3717

AB Pharos Marine Pte Ltd., 35 Tannery Road, #05-05, Tannery Block, Ruby Industrial Complex, Singapore 347740 Tel: (65) 6747-9325, Telex: RS 33272 PHAROS, Telefax: (65) 6746-0478

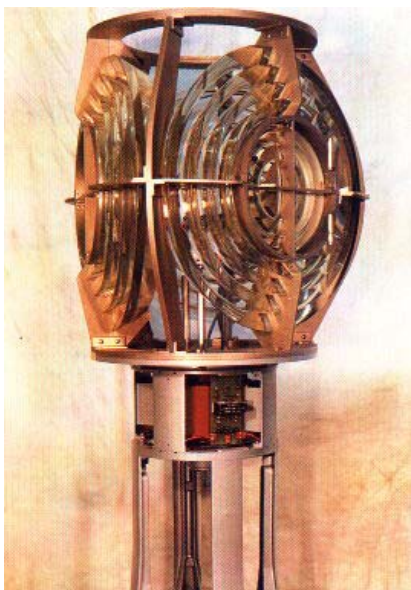
SPECIFICATIONS

IF WITH LENS OF 375MM FOCUS OR LESS

The existing revolving lens is arranged to be mounted upon the gearless motor direct.

IF WITH LENS OF 500MM FOCUS OR MORE

The existing revolving lens and mercury float type pedestal are retained: the weight driven machine (or motor drive) is withdrawn and, in its place, a gearless PRB-22 revolving pedestal drive control unit is arranged to drive the existing lens on its pedestal.



IN EITHER CASE

It is usual to install a UVLA automatic lampchanger.

Lampchangers are used in mains operated installations for extending the service period of the station. When the service lamp has burnt out, standby lamp will automatically be placed in focus. Lamp failure is sensed by a matching changeover unit.

The lampholders are mounted on a pivoted support, which is operated by an AC motor with enclosed gear and friction clutch. Microswitches disconnect the motor when either lamp is in focus. The changing action is smooth and gentle so as not to jar the lamps.

The UVLA can be fitted with a range of lamps including tungsten filament or metal arc with quartz halogen in the reserve position.

Fitting a tungsten twin filament lamp in the reserve position provides for battery back up in the event of mains failure. On restoration of the mains supply the UVLA will automatically return the main light to the focus of the lens. Where an existing lens is too small to accommodate the UVLA, it is usual for a single 400 watt lamp to be installed at its focus. The reserve light is then a separate unit of the APRB-288 or FA-250 type operating from the battery if the 400 watt lamp fails etc. Such a unit is usually mounted on the gallery.

UVLA – Lampchanger fitted with 240volt, 400watt metal arc lamp and 12volt, 100 watt pearl twin filament standing lamp

