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Product Name :
Contra Rotating Propeller Multi Purpose Propulsion
Dynamometer

Product Code :
LBNY-0005-1970004



Description :

The Contra Rotating Propeller Multi Purpose Propulsion Dynamometer is a generic design for use either within a large Cavitation Tunnel or within underwater models in the Towing Carriage. The design greatly simplifies the transmission of power to the output shafts and reduces the number of moving parts (and thus generated noise) considerably. In this case is to be supplied for use in both facilities with the appropriate equipment and accessories including a separate water cooling system for the integral motors. The new CRP dynamometer is based on the Dynamometer principle of integral motors in the gondola, however with higher ratings to meet our customers requirements.

Technical Specification :

Rated thrust both inner and outer shaft $\pm 600\text{N}$
Maximum supply voltage for thrust and torque measurement 20 V
Air pressure for brush lifting, above atmospheric pressure 1 bar
Maximum Error: Maximum speed in water (for short period no longer than 5 mins) 3500 rpm
Recommended supply voltage for thrust and torque measurement (do not use constant current) d.c. or a.c. up to 8 V
Rated torque both inner and outer shaft $\pm 40\text{Nm}$ ($\pm 50\text{Nm}$ is possible for short periods)
Maximum constant speed in water > 1800 rpm
Overload of torque and thrust permitted for a short moment Inclusive dynamic peaks 30.



Laboratory Instrument India