



PRODUCT DESCRIPTION

The RW1000 is an integrated digital reaction flywheel which consists of a brushless motor, photoelectric encoding sensor, rotating mass, sealed housing, ball bearing unit, and digital electronic control. It can provide a torque of 1 Nm and an angular momentum of 15 Nms simultaneously. This is the largest reaction wheel available from OCE at present.

Its key features are high accuracy and large torque. The main application is zero momentum satellites and light fast reaction satellites which require rapid attitude maneuver in middle or high orbits.

SPECIFICATIONS

Maximum Angular Momentum	≥ 15 Nms
Maximum Output Torque (absolute)	≥ 1 Nm
Control Tolerance	0.005 Nms
Control Error 3σ	0.002 Nms
Maximum Speed	1500 rpm
Supply Voltage	42 V
Operational Mode	Speed Mode
Steady State Power Consumption	10 W
Maximum Power Consumption	160 W
Communication Interface	RS422
Dimension	$\phi 337 \times 121$ mm
Mass	11.5 Kg
Lifetime	> 8 years
Delivery Lead-time	13 months

All registered trademarks are respected

For further details email or call:

Sales Department, O.C.E. Technology Ltd.,
NovaUCD, Belfield Innovation Park,
Belfield, Dublin 4,
D04 X8W9, Ireland.

Phone: +353 1 716 3530
Email: sales@ocetechnology.com



Distributor:-

