Phone: +91-9896600003
Email : sales@naugralabequipments.com

Product Name :	**Product Code :**
Centrifugal Force	NETN995

Description :

Centrifugal Force

Technical Specification :

Centrifugal Force
Centrifugal force occurs in the motion of a rigid body on an orbit and is the inertia force, which acts with a direction away from the centre of rotation. The counter force associated with the inertial force is the centripetal force. Both forces are of equal magnitude and opposite in direction. Centrifugal forces occur in all rotating machinery such as turbines and controlled to prevent damage to machine elements.
The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:
Investigation of the centrifugal force as a function of
The speed
The size of the rotating mass
The rotation radius

Specification:
[1] measure the centrifugal force on rotating masses
[2] adjustment of the orbital radii
[3] selection of different masses
[4] continuous adjustment of the speed
[5] drive with DC motor
[6] transmission of centrifugal force via the connecting rod and member to a bending beam

[7] force-proportional deformation of the bending beam
[8] measure the centrifugal force via an inductive position sensor on the bending beam
[9] digital display of force and speed
[10] protective cover with electronic coupling to the drive ensures safe operation

Technical Data:
Orbit
Orbital radii: 25mm, 50mm, 75mm, 100mm, 125mm
Velocity: 6,5m/s
Masses: 50g, 75g, 100g
Drive motor
Power: 35W
Speed: 6000rpm
Measuring ranges
Speed: 0...500rpm
Force: 0...25n, resolution: 0,1N
230V, 50Hz, 1 phase
230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase
Dimensions and Weight
Length x Width x Height: 420x400x270mm
Weight: 23kg

Naugralabequipments

Website: www.naugralabequipments.com, **Email:** sales@naugralabequipments.com

Address: 6148/6, Guru Nanak Marg,Ambala Cantt,Haryana,India. **Phone:** +91-9896600003