

This GigaTorque is a Mini-Centrifugal rotary chair. The major clinical advantage of computerized rotational testing is the ability to produce angular accelerations that can be precisely controlled and repeated. Multiple stimuli of varying intensities can be applied to the vestibular system within a relatively short time. These tests allow evaluation of the vestibulo-ocular reflex and the optokinetic neural pathways in a manner that is not duplicated by alternative procedures.

To perform a VOR test, the movement of the chair must be as smooth as possible and without drift to avoid a directional preponderance. The GigaTorque (and all rotary chairs manufactured by Difra) are positionally controlled. So there is no drift in the movement, no vibration. The movement is also not disturbed by patient's movement on the chair. The automatic Micro-centrifugal system has the ability to precisely position patient's right or left otolith organs over the axis of rotation. The seat is moved off axis by computer control even when rotating at 400 degrees per second. When rotating off yaw axis, centripetal acceleration stimulates the otolith organs resulting in a perception of tilt by subject. The patient reaction is recorded by our VNG NysStar with the eye torsion detection.

Features

- 120 Nm Direct drive motor. To avoid vibration in the movement there is no belting, no gearbox
- Maximum programmable speed (450 degree/sec) and acceleration (240 degree/sec²)
- Comfortable, adjustable chair can be tilted to 30 degree for caloric testing or reclined to the horizontal position for positional or positioning test
- Low-noise slip rings permit the recording of ENG by means of electrodes and VNG using our video goggles. Up to 36 Slip rings
- Fully controlled by our software DiSoft
- All parameters are user programmable : frequency, maximum speed, amplitude, etc ...
- Connection to the computer by NAC bus (High Speed and Secure Serial Bus)
- Up to 255 different devices can be connected on this NAC Bus
- Maintenance free motor
- Delivered with a beautiful desk
- 3 phase power supply

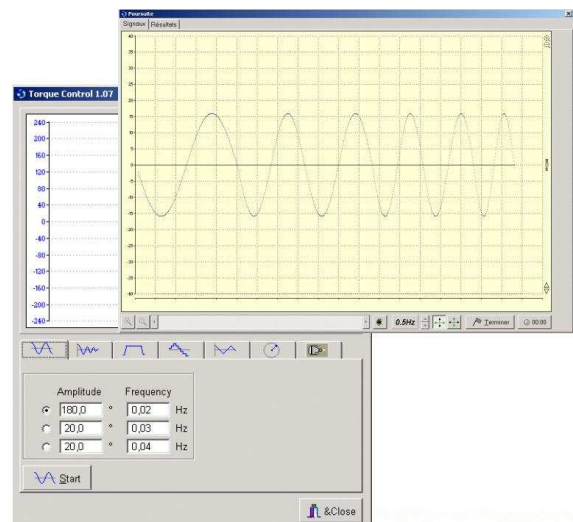
With our DiSoft software, different types of movement can be performed :

- Visual vestibulo-ocular reflex tests
- Cervical tests
- Fixation tests
- Sinusoidal Pendular test
- Velocity Step Rotational test
- Rotational test
- Sinusoidal Harmonic Acceleration Test (SHAT)
- Different positions can be programmed (For caloric testing for example)
- Automatic minicentrifugal rotary chair

GIGATORQUE



Ref.	Description
DI 040400	GigaTorque Electronic programmable rotary chair, 450°/s with option linear centrifuge (Recupel included)
DI 000001	NAC Network board to connect all Difra devices to the computer



Australian Distributer:

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