

VNG

Balance Testing

Nydiag Rotary Chair

Rotational testing is more sensitive than caloric testing even though both are typically used during a full balance assessment.

Rotational testing produces fewer false negatives than caloric testing and is the only test suitable for compensated unilateral lesions and bilateral vestibular lesions.

Rotational testing also avoids all the accessories required for caloric testing and is therefore preferred by many patients. Some patient groups (e.g. children) will often accept rotational testing but reject calorics.

Authentic rotational stimulus

The physiological rotatory stimulus is similar to that which the patient will experience in daily life and up to 100 times stronger than that achieved with the non physiological caloric stimulus. This makes rotational testing particularly suitable for VOR testing.

Vestibular Rehabilitation

The Nydiag Rotary Chair can play an important role in monitoring the compensatory processes of vestibular rehabilitation therapy. It can chart the vestibular healing process by utilizing a wide range of frequencies and acceleration rates.

Accuracy, convenience and flexibility

The Nydiag Rotary Chair provides precisely controlled and reproducible stimuli. You have full control over acceleration, velocity and amplitude and can easily design and configure your own tests

A full test battery

A full test battery is included with the chair, including the sinusoidal pendular test, a velocity step rotational test, sinusoidal harmonic acceleration test (SHAT) and step rotation test.

Space-saving design

The Chair allows you to carry out all tests in a minimum of space. In addition to rotation tests, it reclines easily to allow caloric testing with easy access to both ears. And it can also open out completely and act as a flat bench for positioning tests.

Future safe design

The Nydiag Rotary Chair has 18 maintenance-free, FireWire® compatible slip rings. This enables maximum data transmission from the VNG cameras and also gives excellent expansion possibilities for new technologies or test requirements.

Other features

- Calibration free
- USB connection to PC or laptop
- Control box integrated in socket
- Velocity up to 200°/s
- Acceleration/deceleration up to 100°/s²
- Windows® XP control system

Nydiag Rotary Chair

- FireWire® compatibility
- Space saving
- USB connection



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Nydiag Specifications

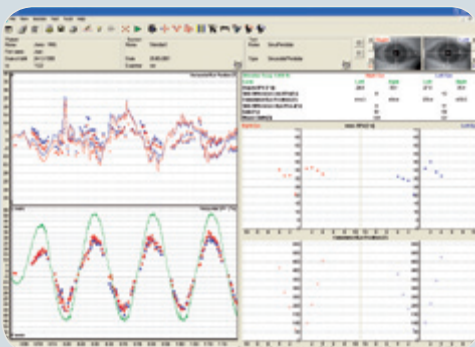
The Nydiag 200 rotary chair is controlled via USB-connection through the RCControl-program. The following functions are available:

- set position
- set speed
- sinusoidal movement for pendular and SHAT-test
- triangular movement for pendular test
- rotation tests e.g. velocity step

Technical data:

Maximum speed	200 deg/s
Maximum acceleration	100 deg/s ²
Max. patient weight	135 kg for full specification, 150 kg with reduced specs.
Reclining backrest	Manually operated from 0 deg (horizontal) to 90 deg (sitting)
Slip rings	18 FireWire® compatible slip-rings
Emergency stop	Emergency stop button disconnects the motor power
Patient alarm button	Sends an alarm signal to the computer and stops the rotation
Weight	175 kg
Weight incl. package	190 kg
Dimensions	90 cm x 70 cm x 160 cm
Dimensions incl. pack- age	100 cm x 75 cm x 190 cm
Power supply	110-230 V~ (50/60 Hz)/ 4A max
Options:	Off-axis movement, ± 10 cm max

The rotary chair complies with the CE-regulations



Sinusoidal Pendular test window
(only with rotary chair)



StepRotation test window
(only with rotary chair)

Read more here:
www.interacoustics.com/com/VNG



Interacoustics®

Leading diagnostic solutions