

B F M C

**BIOFEEDBACK
MOTOR CONTROL
GmbH**

CENTAUR

Product Information



CENTAUR



3D Back Trainer Centaur

The first computer-supported test and training device (CTT) that trains the autochthonic back musculature directly through a precisely reproducible application of strain.

The majority of back problems are the result of functional imbalances and deficits of the torso sensomotor function. CTT CENTAUR identifies and treats these. With this device the global torso musculature can be specifically strengthened and its coordination trained. Furthermore, for the first time it is possible to directly train the local, deeper lying (autochthonic) muscles.



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CTT CENTAUR works on the basis of the following active principles:

- Through a coordinated tilt of the body, the torso needs to be stabilized against gravity
- Through tilting and rotation the body is put into an instable position so that the balance analyser sends impulses to the deeper lying muscles
- Through an upright posture during the training, the muscles are strengthened in the position in which they have to do the most supporting work
- Through a precisely reproducible application of strain a targeted and exactly documentable therapy and training becomes possible



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Effective prevention, rehabilitation and training

- Identification of neuromuscular imbalances in the lumbar spine segment and a targeted training to reduce existing neuromuscular imbalances and deficits
- For the first time a targeted spatial training of the deeper lying (autochthonous) musculature is possible by a controlled activation of the autochthonous back musculature
- Functional training (treatment) to reduce and prevent neuromuscular imbalances and deficits by creating a synergetic strain of the balance analyzer and the sensomotor systems of the lumbar, thoracic and cervical spine motor function
- Cardio-pulmonary training through straining and relieving the blood vessels in tilt
- Isokinetic training device



CENTAUR

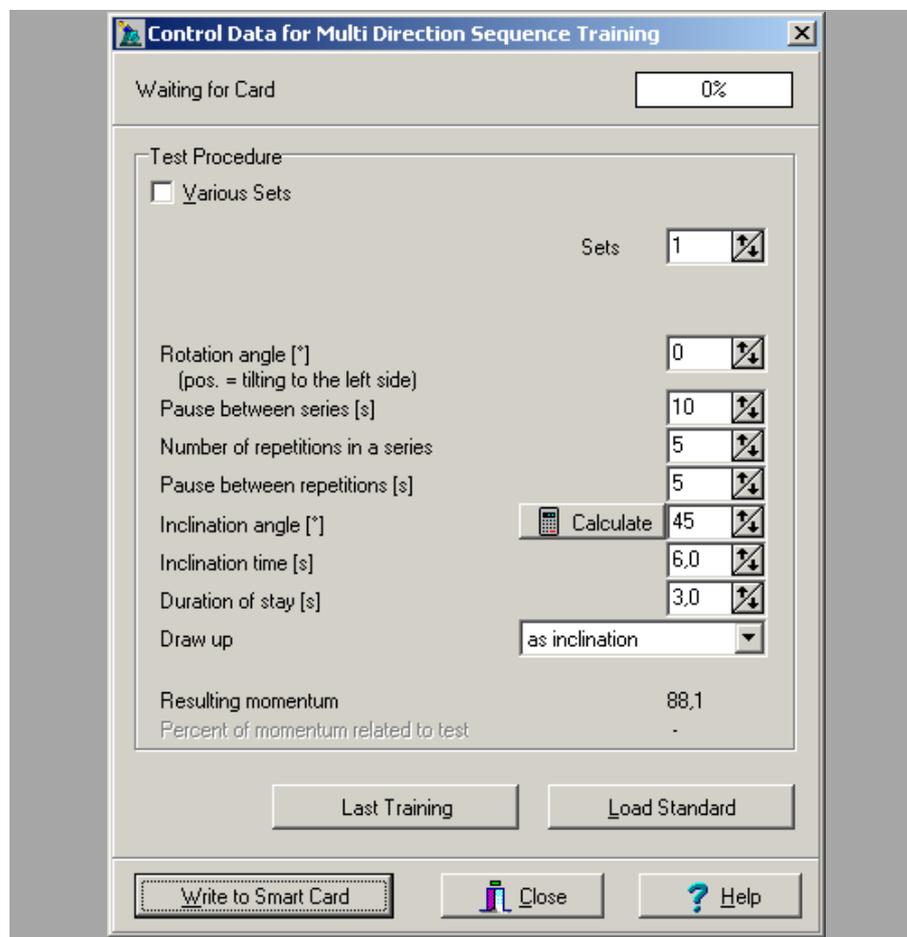


Indications

- Vertebral syndromes with advanced symptoms: prolapsed vertebral disc (including post-operative) and protrusions beyond the acute stage / degenerative changes / cases of spondylolysis and spondylolisthesis / vertebral injury in the context of conservative or post-operative treatment / Recurring vertebral disc complaints with substantially reduced working capacity
- Functional back pain with or without degenerative changes
- Spinal muscular deficits and/or imbalances



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Application Software BioMC for CENTAUR

1. Device Control

- “Test Around Momentum” to determine the maximal possible load of the patient
- “Multi Direction Training” for treatment of imbalances and deficits of several directions
- Integrated “Space Rotation Training” for treatment of complex imbalances and deficits

2. Operator Management

- Password protected patient data with variable operator rights for different operator groups



CENTAUR

Enter Data for a new Patient

Patient | Address | Additional Information | Treatment

Patient

Patient Number

Name

First Name

Date of Birth

Place of Birth

Sex

Male Female

Height [cm]

Weight [kg]

170 70,00

Password

Password

Password Confirmation

Register anatomic data New Patient

Save Write Data to Smart Card

Close Help

Application Software BioMC for CENTAUR

3. Patient Management

- Definite assignment of diagnosis and therapy data
- Comprehensive management of anthropometric and general data

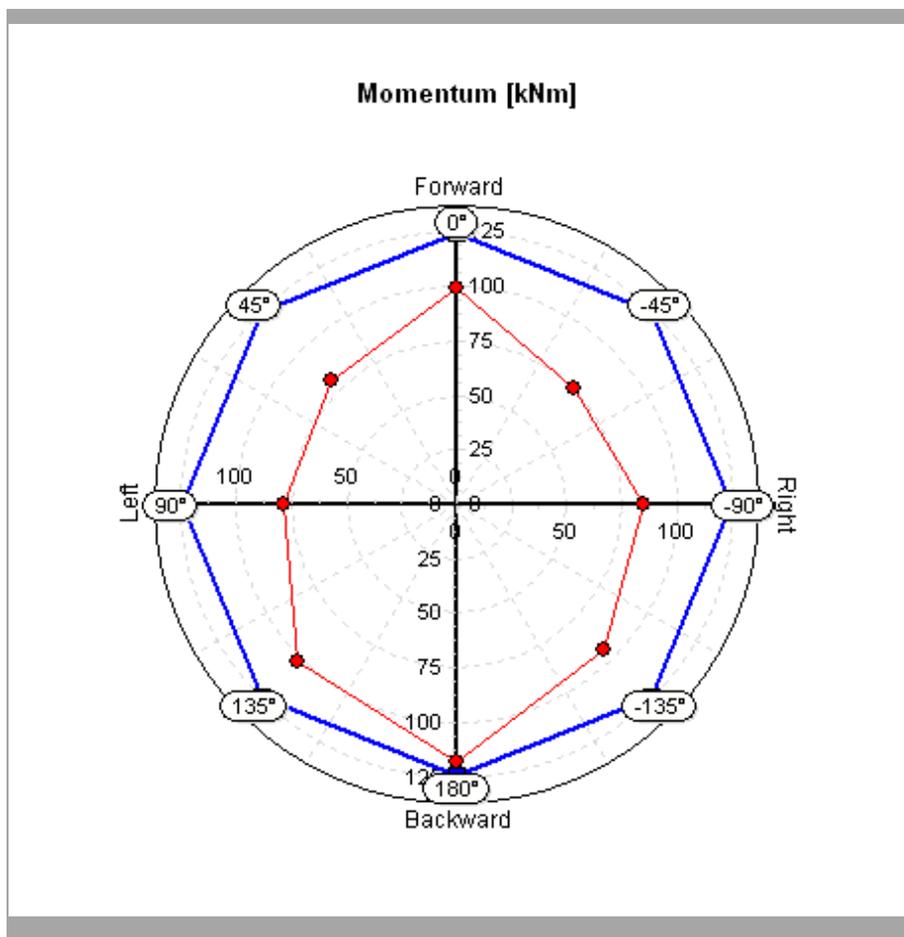
4. Treatment Management

- Management of different treatments including a clear overview for cost documentation

5. Reports

- Adjustable diagnosis and therapy reports (printable) for documentation and archiving

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Application Software BioMC for CENTAUR

6. Pretest/Posttest comparison

- Therapy success clearly visible (result presentation and documentation)

7. Training progress

- Therapy progress clearly represented



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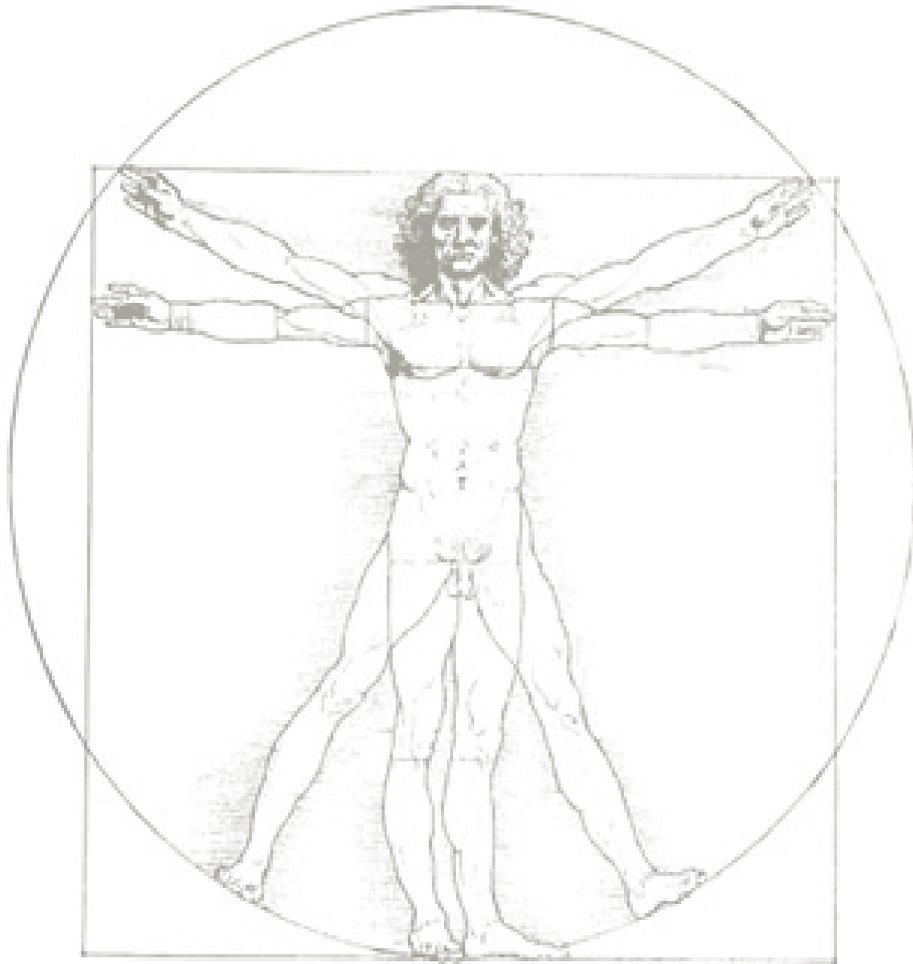
Product specification

Dimensions and Weight

- Width: 1.40 m
- Depth: 1.20 m
- Height: 195 m
- Weight: 550 kg

Operation Space

- Width: 2.00 m
- Depth: 2.50 m
- Height: 2.80 m



BFMC

**BIOFEEDBACK
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