CanidGait®

Stance and Gait Analysis
Balance and Stability
Training for Dogs

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CanidGait®– Analysis, Therapy and Documentation of Stance and Gait Anomalies among Dogs
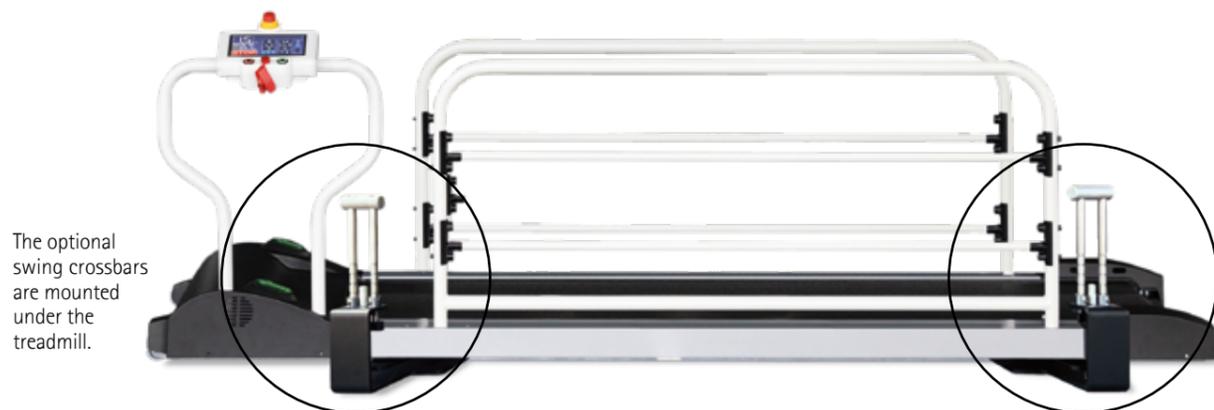

The CanidGait® treadmill has an extremely low step-up height, allowing dogs of all sizes to use it without hesitation.

The CanidGait® treadmill and platform systems bring zebris Medical GmbH's many years of experience in the field of biomechanical gait and stance analysis to the world of veterinary medicine. Without any further preparation, a complete diagnosis of a dog's walking and standing behavior can be carried out in just a few minutes.

One system – noumerous options

The easy-to-use PC evaluation software provides well-founded and valid gait parameters after automatic or manual limb and extremity assignment. The system consists of a treadmill or measuring platform equipped with a calibrated pressure sensor array and one or more synchronized cameras.

Using innovative swing crossbars, both training and analysis of balance and postural stability can be performed during passive or actively induced perturbation by the therapist.

The optional swing crossbars are mounted under the treadmill.

Advantages by CanidGait®

Gait disorders in dogs, such as those caused by changes or injuries to the musculoskeletal system, are accurately analyzed, enabling targeted treatment in daily clinical practice.

The system reveals functional deficits that are difficult to detect with the naked eye, enabling early diagnosis of incipient lameness.

The analysis report presents the percentage contact forces and pressure distribution pattern of each dog's paw and the distribution of the body's center of gravity.

Valuable parameters for therapy

The step lengths, the track width, the cadence, the stance and swing phases and a symmetry index are displayed in clear bar charts. Furthermore, the peak force and the vertical impulse are calculated.

The course of the center of pressure COP provides valuable information on the roll off characteristics and the gait symmetry.
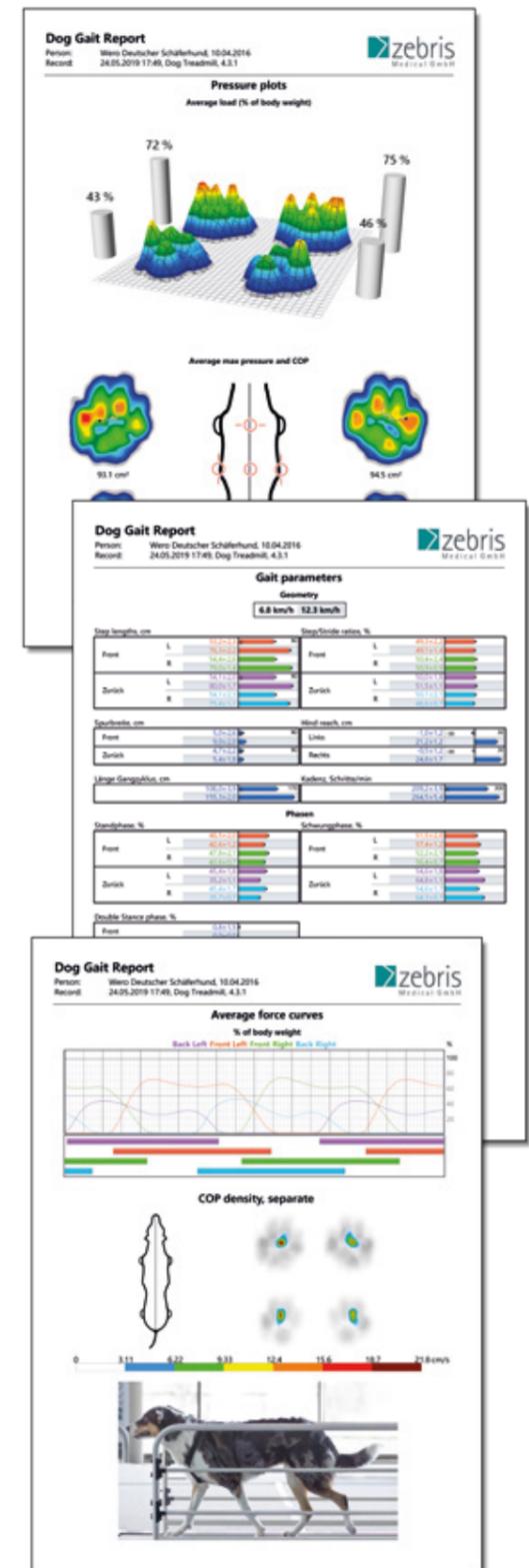
For the various gait types the force curves and the foot fall patterns of the four limbs as well as individual images or image sequences are displayed.

In addition, the standing behavior of dogs can be recorded in detail.

For therapy monitoring, the measurement results of different examinations can be compared with each other in a report.

The swing crossbars can be flexibly adjusted in their range of motion using a control element.

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System Components

CanidGait® – Treadmill System

The treadmill system can be equipped with cameras and highly accurate, calibrated capacitive pressure sensors for stance and gait analysis.

FDM–TLA CanidGait®
Tread surface: 180 x 50 cm · Speed range: 1 - 14 km/h · Access height: 8 cm · Touchscreen · Light barrier system ·
Pressure sensor array for stance and gait analysis with sensor area: 149 x 47 cm · Sensors: 9,856 ·
Sampling rate: 200 Hz · Dimensions (L x W x H): 240 x 75 x 70 cm.

CanidGait® – Measuring Platform

FDM 2 CanidGait®
Pressure sensor array for stance and gait analysis with sensor area: 203 x 54.2 cm · Sensors: 15,360 ·
Sampling rate: 100 Hz, optionally 200 Hz · Dimensions (L x W x H): 212 x 60.5 x 2.1 cm ·
Two measuring platforms can be combined to double the running surface.

Additional System Components

The system can be delivered with a notebook or with a stand with integrated computer and touch monitor.

The SYNCCam and SYNCCam HS cameras are precisely synchronized with the pressure sensors of the conveyor belt. Multiple cameras can be operated on a single system.

Optional swing crossbars can be flexibly adjusted in their movement amplitude via a control element

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