



⇒ **specialized hard- and softwaresolutions for diagnosis, biofeedback and training applications in elite sports, fitness and rehabilitation**

⇒ **muscle performance diagnosis & trainingconsultation**

SP sport

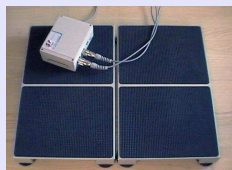
MLD-Station - Evo3

a new dimension of performance and functional diagnosis for the objective control of training in sports and therapy

The diagnosis station MLD - Evo3 was developed especially for diagnosis in sports and for applications in therapy. It enables the objective measurement of the neuromuscular performance and function also in static positions as in complex dynamic movements. The MLD-Evo3 is characterized by a very robust construction, high measurement precision and reliability, the easy handling and the possibility of mobile employment.

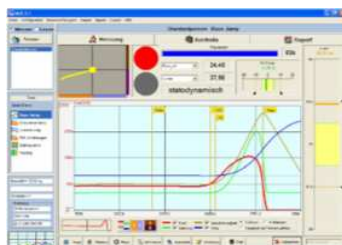
2 SPS measurement platforms

aluminium eloxiert à 400x600x80mm: per platform 4 one-dimensional DMS-transducers, standard measurement area 3kN/transducer, maximal up to 7,5kN/transducer, precision 0,1% of the topvalue, temperature-drift 0,01%/K, per platform 2-4 analogue signals +/-10V, 3kHz area, the signals are preamplified in the platform, synchronisation und signal processing with a low-band-filter 4th class in the interface box, frequency from 50Hz to 2500Hz available



Software MLD 3.2

- ✓ objective and valid measurement of muscle performance, force, velocities, angle-courses
- ✓ force-triggered measurement recording
- ✓ automatic recognition of muscular activity forms
- ✓ automatic analyse-system with immediately presentation of results
- ✓ control- and check-functions
- ✓ more then 100 diagnosis parameter
- ✓ editable chart functions



- ✓ biofeedback functions with true-time-presentations
- ✓ report-, exportfunctions
- ✓ Windows XP, Vista



Applications

- ⇒ **performance diagnosis:** diagnosis of power and strength for muscles for leg extension and muscles for arm extension in complex movements.
- ⇒ **coordination diagnose:** diagnosis of functional dysbalances, coordination-troubles and wrong loads in movements
- ⇒ **biofeedbacktraining/-therapy:** training with immediately objective Feedback about the coordination quality and the dynamics of the movement.

References

Olympic Center of Bayern, Olympic Center of Vorarlberg, Schigymnasium Stams, IMSB-Austria, Institute of Sport science Magglingen-Switzerland, Austria Skifederation,



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