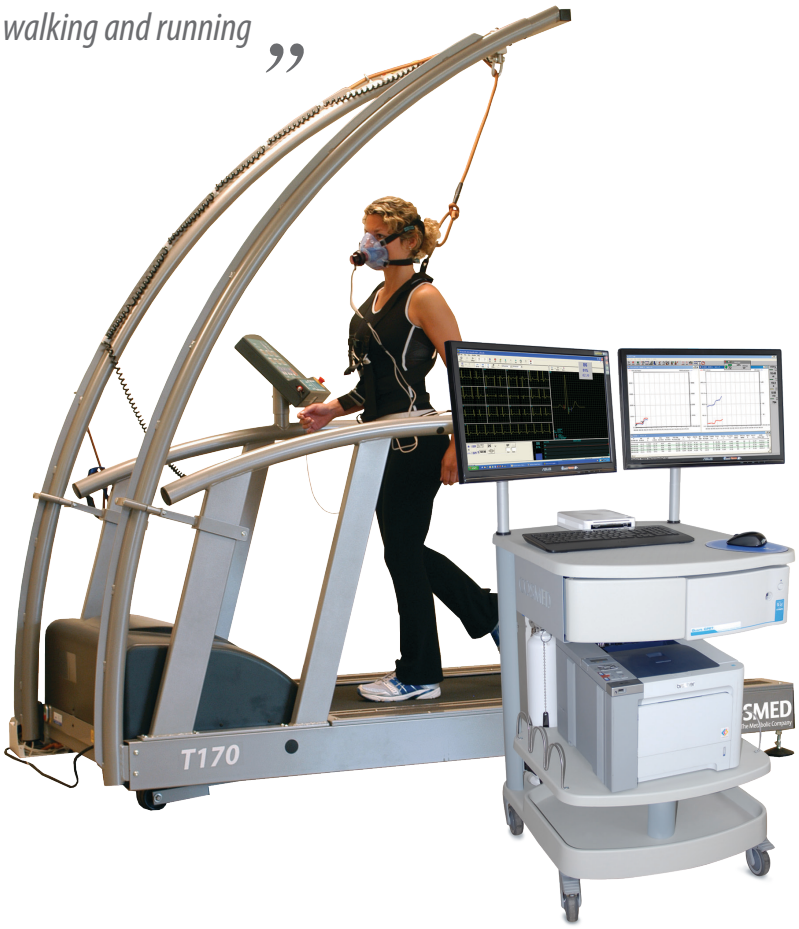
Treadmills

High Performance Treadmills

High quality running machines for clinical and high performance applications

COSMED
The Metabolic Company

“The unique design and heavy duty build guarantee high performance, a stable platform and a slip-free belt for natural walking and running”



- **Different configurations available from entry level to advanced applications**
- **Running machines available with various lengths, widths, speeds and elevations**
- **Durable deck and indestructible engine**
- **Stable platform and slip free belt for natural walking or running motion**
- **Fully interfaceable for PC, ECG, ergospirometry, blood pressure or printer**
- **Medical certification (C0123, MDD risk class IIb) available for clinical applications**

COSMED treadmills offer the best quality and high safety standards in the market, either for clinical or high performance applications. The unique design and heavy duty build guarantee maximum performance, a stable platform and a slip-free belt for natural walking and running.

COSMED treadmills are available with different configurations and specifications to fit any request for clinical or sport testing. Each model can interface with all COSMED metabolic and ECG systems.

Design

- Durable belt with unique design and heavy duty build
- Stable, lag free surface for safety and natural movement even at high speeds
- Powerful and maintenance-free drive motor
- Smooth start from 0 km/h. Seven levels of acceleration
- Clear to use and ergonomically placed user terminal for safe and easy operation (40 programs with 6 exercise profiles, 26 test protocols and 8 definable programs)
- Low height track access ideal for clinical applications
- All treadmills come with a wireless heart rate control system (Polar heart rate receiver) for beat to beat measurements

Accuracy/Reliability/Safety

- Individually selectable acceleration and deceleration levels range from extremely slow to extremely fast. In 3 ... 131 seconds from 0 to maximum speed
- Average accuracy of 2.86 % for the speed range (measured under subject loads of 0, 70, 80 and 95 kg) and 0.5191 % for the elevation range (average deviation -0.0427 %)
- 3-phase AC motor (available on T170 DE 3P SportMed and T200 models) allows accurate and repeatable results at higher intensities also for heavier athletes and for many special applications (avoiding thus major speed drops during the athletes landing phase)
- Medical models meet the main technical safety standards and legal demands for medical applications (C0123, MDD risk class IIb)
- AC motor designed not to interfere with other medical equipment (available on MED models)

Data Management & Software

- **COSMED software:** all treadmills can be controlled directly through the COSMED SW Suite (included with COSMED metabolic and ECG systems), allowing thus to perform a fully integrated cardio pulmonary exercise test
- **para control** (included on all models): it allows to control the treadmills via interface from a PC or laptop. More functions: cool down, quick stop, countdown, option settings, etc.
- **para graphics** (optional): software to create individual graded test profiles with pre- and after workload and pause time. The software monitors and records all load data
- **para analysis** (optional): software for performance diagnostics up to coaching with detailed training plan

Options/Accessories

Safety Arch with Fall Stop

- Indispensable accessory for stress testing, accident prevention and for the general safety of athletes
- Safety arch with different heights and widths to fit all running machines
- An emergency stop at the crossbar of the safety arch allows automatic stop of the running belt in the moment a fall occurs
- The harness and chest belt (available in 5 sizes: XXS, S, M, L, XL) secure the subject and prevents falling over to the front.
- Chest belt straps do not pinch or restrict the athlete

Unweighting System (Airwalk)

- Ideal solution for gait analysis and rehab therapy with clinical patients (ie, obese, stroke, cerebral palsy, paraplegic, etc.)
- Dynamic unweighting system controlled individually via remote control. A display shows the exact unweighting value.
- Three versions with different dynamic weight support (unloading/lifting respectively up to 35, 70 and 160 kg). An optional external air compressor is required for airwalk 70 and 160
- Ergonomic and comfortable harness (available in 4 sizes: XS, S, M, L)

Performance

- Reverse rotation kit for downhill motion (standard on T200, optional on T150 and T170 models)
- Speed extension up to +60kmh (only T200 models)

Handrails

- Handrail crossbar (standard on T150 and T170, optional on T200 models)
- Lateral long handrails 2 pillars (standard on T200, optional on T150 and T170 models)
- Adjustable handrails (optional only on T150 models)
- Arm support with additional keyboard and additional stop-button
- Additional emergency-stop-button (on handrail)

Connectivity

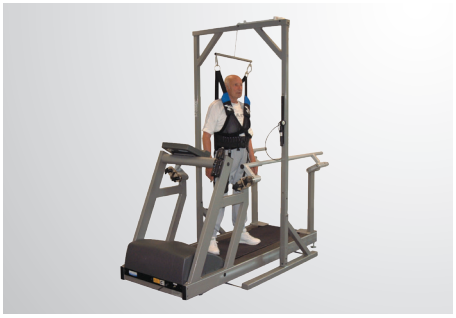
- Best possible compatibility with up to 4 communication ports
- RS232/analog and USB/RS232 available as optional equipment
- Interfaceable with any COSMED metabolic and ECG systems, providing the possibility to perform complete and fully integrated Cardio Pulmonary Exercise Tests
- Print test sessions with a directly connected printer (with PCL printer language and with a serial interface)

Applications

- Pneumology
- Cardiopulmonary Rehab
- GAIT Analysis
- Kinesiology
- Orthopedics
- Pre-Operative Assessment
- Sport Science Academics & Research
- Human Performance Centers
- Elite Athletics
- Olympics
- Professional Teams
- Public Safety

Elevation can be controlled either with user terminal or with PC software

Downhill motion and downhill gait therapy is possible with belt reverse rotation module (standard feature on T170 Sport and T200 models)

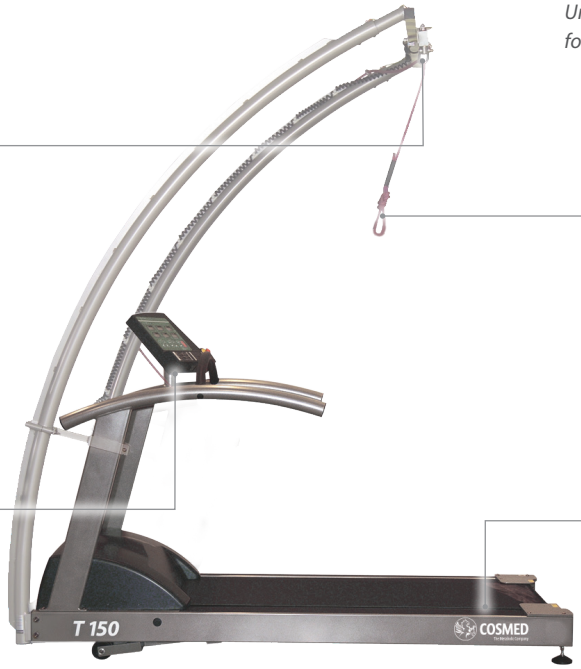


Unweighting system (Airwalk) for rehabilitation and for physiotherapy applications

Fall stop at the crossbar of the safety arch

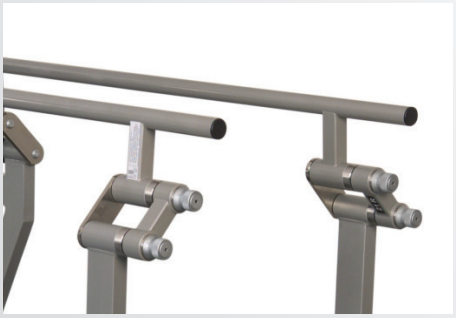
Fall stop at the crossbar of the safety arch

Clear and user friendly user terminal (available on all models)

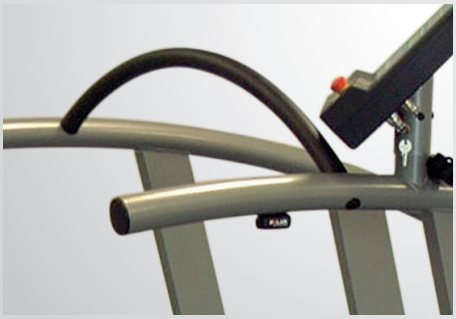


The low height track access is ideal also for seniors, orthopaedic patients and other clinical applications

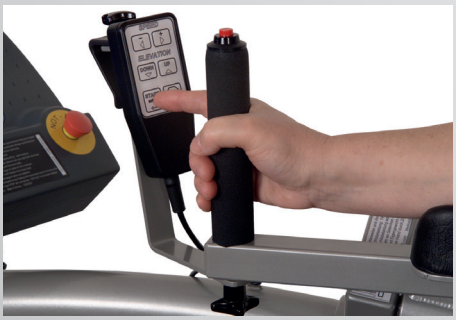
Long handrails with two pillars offer safety and comfort in case of special applications



Adjustable (in height and width) handrails for maximum safety and movement freedom of children or elderly patients



A bent crossbar is available as standard accessory for all T150 and T170 models



Arm support ideal for overweight patients and for people with orthopaedic problems or cardiovascular disease

Technical Specifications

Model Name	T150 NT DE MED*	T150 DE	T150 DE MED	T170 DE	T170 DE MED	T170 DE Sport	T170DE Sport 3P	T200 S	T200 M
Dimensions									
Running surface length (cm)	150	150	150	170	170	170	170	200	200
Width (cm)	50	50	50	65	65	65	65	75	100
Weight (Kg)	190	190	200	370	380	380	390	800	1000
Performance									
Speed (km/h)	0-18	0-22	0-22	0-30	0-30	0-40	0-40	0-40	0-40
Elevation Range (%)	0-18	0-25	0-25	0-25	0-25	±25	±25	±35	±35
Maximum elevation (°)	NA	14	14	14	14	14	14	19.3	19.3
Downhill (w/ reverse belt)	-5%	-5%	-5%	-5%	-5%	-5%	-5%	-5%	-5%
Maximum Patient Weight (kg)	200	200	200	200	200	200	200	200	200
Motor capacity (kW)	NA	3.3	3.3	3.3	3.3	3.3	3.3	11	11
Special Speed (0-60 km/h)								❍	❍
Special Applications									
Reverse belt rotation	❍	❍	❍	❍	❍	●	●	●	●
Safety stop waist belt	❍	❍	❍	❍				●	●
Safety arch with harness	❍	❍	❍	❍	❍	❍	❍	❍	❍
Unweighting system (Airwalk)	❍	❍	❍	❍	❍	❍	❍	❍	❍
Handrail crossbar	●	●	●	●	●	●	●	❍	❍
Handrail long 2 pillars	❍	❍	❍	❍	❍	❍	❍	●	●
Adjustable handrail	❍	❍	❍						
Arm support	❍	❍	❍	❍	❍	❍	❍	❍	❍
Protocols									
Acceleration levels	7	7	7	7	7	7	7	7	7
Exercise profile	6	6	6	6	6	6	6	6	6
Definable profile	8	8	8	8	8	8	8	8	8
Test profile	26	26	26	26	26	26	26	26	26
Hardware									
Heart Rate Control Load	●	●	●	●	●	●	●	●	●
User Terminal	●	●	●	●	●	●	●	●	●
RS232 com1	●	●	●	●	●	●	●	●	●
RS232 com2	❍	❍	❍	❍	❍	●	●	●	●
RS232 com 3 and com4	❍	❍	❍	❍	❍	❍	❍	●	●
Motor Engine	1 phase	1 phase	1 phase	1 phase	1 phase	1 phase	3 phase	3 phase	3 phase
CE0123, MDD conformity	●		●		●	●	●	●	●
Software									
para control	●	●	●	●	●	●	●	●	●
para graphics	❍	❍	❍	❍	❍	●	●	●	●
para analysis	❍	❍	❍	❍	❍	❍	❍	❍	❍

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To know more: