

h/p/cosmos®



pluto®

run ahead of time®



The new h/p/cosmos treadmill pluto®

h/p/cosmos standard for low entry-level price

Established 1988 in Germany h/p/cosmos builds and develops treadmill-ergometers for fitness, sports performance, sports medicine, rehabilitation, sports science, biomechanics and diagnostics. This experience is in the new treadmill pluto® and we provide you the high h/p/cosmos standard for a low entry price.

stable and low-maintenance

The pluto® treadmill is virtually indestructible with its sturdy frame. It is very low maintenance and provides the runner or patient a comfortable run with it's advanced construction. The pluto® running machine is distinguished by its smooth running, various functions, strong drive-engine and the timeless design.

sports & medical device treadmill

pluto® is available as a sports and as a medical treadmill class IIb. As a medical device, it is particularly suitable for use in the fields of cardiology, neurology, cardiac rehabilitation and physiotherapy. The interface of the h/p/cosmos pluto® treadmill ergometer allows connection to ECG, ergospirometry systems, blood pressure measuring devices and software programs via the coscom® protocol.

children handrails for pediatric rehabilitation

Children handrails are available as an additional option (only in combination with the safety arch). The pluto treadmill can be used for pediatric rehabilitation with this option. Children can hold the handrail side and front, while walking on the treadmill and they always have a sense of security and control.

numerous additional options

You can customize the pluto® treadmill to your field of application - whether rehabilitation, cardiopulmonary diagnostics for patients or fitness - with the numerous additional options.

| options | order number | options | order number |
|--|--------------|---|---------------------|
| children handrail | cos102400 | robowalk expander F (front) | cos30022-01 |
| handrail crosstube 30 mm | cos102426 | robowalk expander B (back) | cos30023-01 |
| wheelchair ramp (LxW): 125 x 80 cm | cos102427 | bottle holder | cos12410 |
| wireless heart rate measurement POLAR WIND (coded) | cos100106 | PC software para control® for remote control | cos10071-v4.1.0-txt |
| arm support adjustable in height and width via joints including scale with numbers | cos12013 | PC software para graphics® for remote control and visualisation | cos10156-V2.6.14 |
| additional keyboard for arm support | cos100680 | safety arch | cos10079 |
| Optional-STOP-Button in arm support right | cos10107 | with chest-belt system, harness, fall-stop prevention | |



specifications: treadmill pluto® med

| | |
|------------------------|---|
| running machine | pluto® med |
| manufacturer: | h/p/cosmos sports & medical gmbh / Germany |
| order number: | cos30026va02 |
| applications: | endurance training walking and running, stress device for performance testing, gait analysis and gait training |
| control: | via UserTerminal MCU5 with keyboard and display, integrated interface or via optional remote control |
| running surface: | L: 150 cm (4 ft 11.06") B: 50 cm (1 ft 7.69") special sizes available at extra charge access height ca. 23 cm (9.06") - running belt with slip resistant surface - max. permissible load: 200 kg (440 lbs) |
| speed range: | 0.5 ... 18.0 km/h (0.1 ... 5.0 m/s) (0.3 ... 11.2 mph) |
| acceleration: | 7 acceleration / deceleration levels between 131 s and 3 s from 0 to max. or from max. to 0; equals 0.038 ... 1.66 m/s² programmable via para control PC software |
| elevation: | 0 ... 20 % (0 ... 11.31°) motorized adjustment |
| motor system: | 2.2 kW (3 HP) 3-phase AC motor, maintenance free and brushless; For high-performance applications we recommend models with a 3-phase 3x400 volt power supply and a running surface min. 190/65 cm. |
| power transmission: | frequency inverter, poly-V-belt, very quiet operation |
| safety systems: | CE0123; medical device directive 93/42/EEC + 2007/47/EC; MDD; machinery directive 2006/42/EC; IEC 60601-1; EN 60601-1-2 (EMC approved); EN 60601-1-6; EN 62304; EN 62353; ISO 20957-1; EN 957-6; EN 14971; ISO 9001; EN ISO 13485; emergency-off safety stop switch (mushroom push button for drive system power-off); emergency stop switch (safety lanyard with actuator, pull cord and clip); potential equalization bolt; transformer for potential-isolation from the mains. |
| degree of protection: | appliance class I ⚡ / type BR / IP 20 |
| classification: | medical device risk class IIb according to MDD, active therapeutic medical device and active diagnostic medical device |
| usage class: | S, I according to ISO 20957-1 |
| accuracy class: | A (high accuracy) according to EN 957-6 |
| earth leakage current: | < 0.2 mA |
| ambient condition: | temperature: +10...+40 °C (-30...+50 °C on request) humidity: 30...70 % (up to 100 % on request) air pressure: 700...1060 hPa 2.000 m (-6.561 ft) max. altitude without pressurization |
| display (resolutions): | 6 LCD displays, 4 LEDs for operation modes, 20 LEDs for display of units & profile no, steps, etc. speed (0.1 km/h or m/s or m/min or mph), time (00:00) in hours, minutes & seconds, elevation (0.1 % or degrees) distance (1 m...999.9 km or miles), METS (1 MET) program step/number, energy (1 kJ/kcal), fitness index (1) power (1 Watt), heart rate (1 bpm / beat per minute) optional |
| heart rate monitoring: | optional, POLAR chest belt with wireless transmitter, 1 channel receiver with chest belt |

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|-----------------------------|--|
| digital interface: | 1 x RS 232 com1 with 9600 bps: incl. PC-protocol, h/p/cosmos coscom® & printer protocol serial. option extra charge: USB-RS232-converter; com2; com3 with 115200 bps; com4 |
| programs: | 42 programs / profiles - 6 exercise profiles (scalable, more than 100 variations) - 28 test profiles (UKK 2 km Walktest, Bruce, Graded Test, Naughton, Ellestad, Gardner, Conconi, Ramp, etc.) - 8 free definable programs with 40 program steps each |
| PC Software (incl.): | h/p/cosmos para control® for display & remote control including 1 x RS232 interface cable 5 m (16ft 4.85"). |
| PC Software (extra charge): | h/p/cosmos para graphics®, para analysis® & para motion®. PC software for control, monitoring, recording & analysis. |
| accessory (incl.): | user manual, 125 ml special oil, service box, 5 m (16ft 4.85") PE potential equalization cable |
| colour of frame: | pure white RAL 9010 (powder coated) |
| handrails: | steel tube handrails 60 mm on both sides; length: 620 mm; square crosstube between pillars; UserTerminal between pillars. steel tube handrails are easy removable and can be replaced by paediatric handrails. front-crossbar 30 mm at extra charge. |
| voltage supply: | 200 ... 240 volt AC 1~/N/PE 50/60 Hz 15-16A fuse; dedicated circuit, line and protection; |
| size of frame: | L: 210 cm (6ft 10.68") W: 85 cm (2ft 8.28") H: 119 cm (46.85") |
| net weight: | device approx 230 kg (500 lbs) |
| packing dimensions: | L: 230 (90.55") cm W: 110 (43.31") m H: 98 cm (38.58") |
| gross weight: | device approx 320 ... 350 kg (704 ... 770 lbs) |
| warranty: | 12 months |

The treadmill-ergometer pluto® is available as a sports treadmill as well as a medical device, with or without User-Terminal. Differences between sports and medical device (modell pluto, art. no: cos30026va01): safety systems, classification; no medical device; no classification as a medical device

Optionally available at extra charge are special frame colours, other handrail designs, special voltage supply and other options and accessories. Weight and package specifications can deviate according to options, accessories packing and way of transport.

E&OE. Subject to alterations without prior notice.

Please consider the natural and physical performance limitations of the single phase 230 volt power supply. The single phase 230 volt power supply is sufficient up to normal fitness or therapy applications. For all special high performance applications (speed running, controlled jump-ons, sidesteps, heavy subjects at higher speed, extreme elevations, etc.), we recommended models with a 3-phase, 3x400 volt power supply (for example model h/p/cosmos quasar med 3p, pulsar 3p, venus or saturn).

Warning! Installation, commissioning, instruction, maintenance and repair work only to be conducted by h/p/cosmos trained and authorized personnel. For treadmills with oversized deck (width >65cm), for children, special applications, without sufficient safety space behind the treadmill, for subjects and / or patients with health or other limitations (e.g. visual impairment, etc.), for running at high speed and / or for all individuals, where a fall triggers a dangerous risk of injury or death (e.g. newly operated hip patients, invasive probes, etc.), a fall prevention system is obligatory (e.g. safety arch with chest belt and harness or a weight support system). For more information see the instructions for use. Safety space behind the treadmill: min. L: 2 m (6ft 6.74") x treadmill width. Children are only allowed to be on the treadmill, if under permanent supervision and secured by a fall prevention system.

| running-machine | c | display | order number |
|-----------------|---|---------|--------------|
| pluto® | c | yes | cos30026va01 |
| pluto® med | n | yes | cos30026va02 |
| pluto® lt | c | no | cos30027va01 |
| pluto® lt med | n | no | cos30027va02 |



EN: All prices net, EXW (ex works) h/p/cosmos factory Germany, in EURO. Valid from 01.01.2015 until 31.12.2015 only for Germany. Prices in other countries can vary significantly. Transport, packing, VAT, import taxes, custom duties, L/C and bank fees, installation and instruction are not included.

sports / athletics



sports
quasar®



speed training / speedlab
pulsar® 3p



performance diagnostics
pulsar® 3p



wheelchair
saturn® 300/100r



cycling & athletics
saturn® 300/100r



inline skating
saturn® 300/125r
or saturn® 450/300rs



functional training
pulsar® 3p + robowalk®



**cross country skiing
skating / biathlon**
saturn® 450/300rs



fitness
mercury®



**motion analysis
Running School®**
quasar® med / para motion®

rehab



**neurology & orthopaedics
robowalk expander**
mercury® med



senior fitness
mercury® med



locomotion therapy
locomotion® / airwalk



cardiac rehabilitation
mercury® med



**body weight supported
treadmill therapy**
mercury® med / airwalk



angiology
mercury® med



gait analysis / biomechanic
h/p/cosmos gaitway II S
zebris force-distribution measurement



**cardiovascular stress
testing / CPET**
mercury® lt med



**gait therapy & gait training
orthopaedic rehabilitation**
mercury® med / arm support



therapeutic bar training
parawalk®

special applications



**environmental climate
chambers**
pulsar® 3p



**sprint & overfrequency
training / traction support**
sprint trainer comet®



military / army
mercury® special version



**methodology, concept,
education & equipment**
SpeedLab®



**hypoxi altitude
simulation**
mercury® med



**fitness ladder ergometer
climbing / fire fighters**
discovery®

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