

specifications h/p/cosmos 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) - optional 300 kg (660 lbs) at extra charge
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.
CE 0123	
degree of protection:	appliance class I I / type B B / 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
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.

The treadmill-ergometers are available as sports treadmills as well as a medical devices, with or without User-Terminals. Main differences between sports and medical devices: CE-marking, safety systems, standards and norms; no medical devices; no classifications as a medical devices.


Ask service@h-p-cosmos.com for detailed specifications of all h/p/cosmos treadmill models.



specifications h/p/cosmos pluto®

running machine	pluto®
manufacturer:	h/p/cosmos sports & medical gmbh / Germany
order number:	cos30026va01
applications:	sports and fitness endurance training, walking and running
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) - optional 300 kg (660 lbs) at extra charge
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/s ² 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:	CE; machinery directive 2006/42/EC; EN 62366; 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)
degree of protection:	appliance class I  / IP 20
classification:	sports and fitness device; not for medical, not for therapeutic applications
usage class:	S, I according to ISO 20957-1
accuracy class:	A (high accuracy) according to EN 957-6
earth leakage current:	< 1,5 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 wireless with chest belt
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.):	instruction for use, 125 ml special oil, allen-key
colour of frame:	pure white RAL 9010 (powder coated)
handrails:	steel tube handrails \varnothing 60 mm on both sides; length: 620 mm; square cross-tube between pillars; UserTerminal between pillars. steel tube handrails are easy removable and can be replaced by paediatric handrails. front-crossbar \varnothing 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

specifications h/p/cosmos quasar®

running machine	quasar®
manufacturer:	h/p/cosmos sports & medical gmbh / Germany
order number:	cos30003va16
applications:	sports and fitness endurance training, walking and running
control:	via UserTerminal MCU5 with keyboard and display, integrated interface or via optional remote control
running surface:	L: 170 cm (5ft 6.9") B: 65 cm (2ft 1.6") special sizes available at extra charge access height: 23 cm (9.06") - shock load reduction for the joints - running belt with slip resistant surface - reinforced running belt with profiled surface, 5 mm thick - max. permissible load: 200 kg (440 lbs) / optional 300 kg (660 lbs)
speed range:	0...25.0 km/h (0...6.9 m/s) (0...15.5 mph); special speed available at extra charge: 0...45 km/h (0...27.8 mph) and others
acceleration:	7 acceleration / deceleration levels; between 131 s and 3 s from 0 to max.; or from max. to 0; equals 0.053... 2.31 m/s ² programmable via para control PC software
elevation:	0...28 % (0...15.6°) motorized adjustment (-28 %...+28 % when using optional reverse belt rotation)
running direction:	switch for reversing running belt direction at extra charge. max. permissible reverse speed 5 km/h (3.1 mph) if no safety-harness with fall-stop prevention system is used.
motor system:	3.3 kW (4.5 HP) 3-phase AC motor, maintenance free and brushless; 20 years warranty on main drive motor.
power transmission:	frequency inverter, poly-V-belt, very quiet operation
safety systems:	CE; machinery directive 2006/42/EC; EN 62366; 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)
degree of protection:	appliance class I  / IP 20
classification:	sports and fitness device; not for medical, not for therapeutic applications
usage class:	S, I according to ISO 20957-1
accuracy class:	A (high accuracy) according to EN 957-6
earth leakage current:	< 1,0 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:	POLAR wireless transmitter, 1 channel receiver; automatic control of speed and elevation according to programmed target heart rate („cardio mode“)
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, drinking bottle holder with 2 h/p/cosmos 0.5 l bottles, service box, special oil
colour of frame:	pure white RAL 9010 (powder coated)
handrails:	steel tube handrails \varnothing 60 mm on both sides; other designs 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: 230 cm (7ft 6.6") B: 105 cm (3ft 5.3") H: 145 cm (4ft 9.1")
net weight:	device approx 312 kg (688 lbs)
gross weight:	device approx device approx. 530...580 kg (1166...1276 lbs)