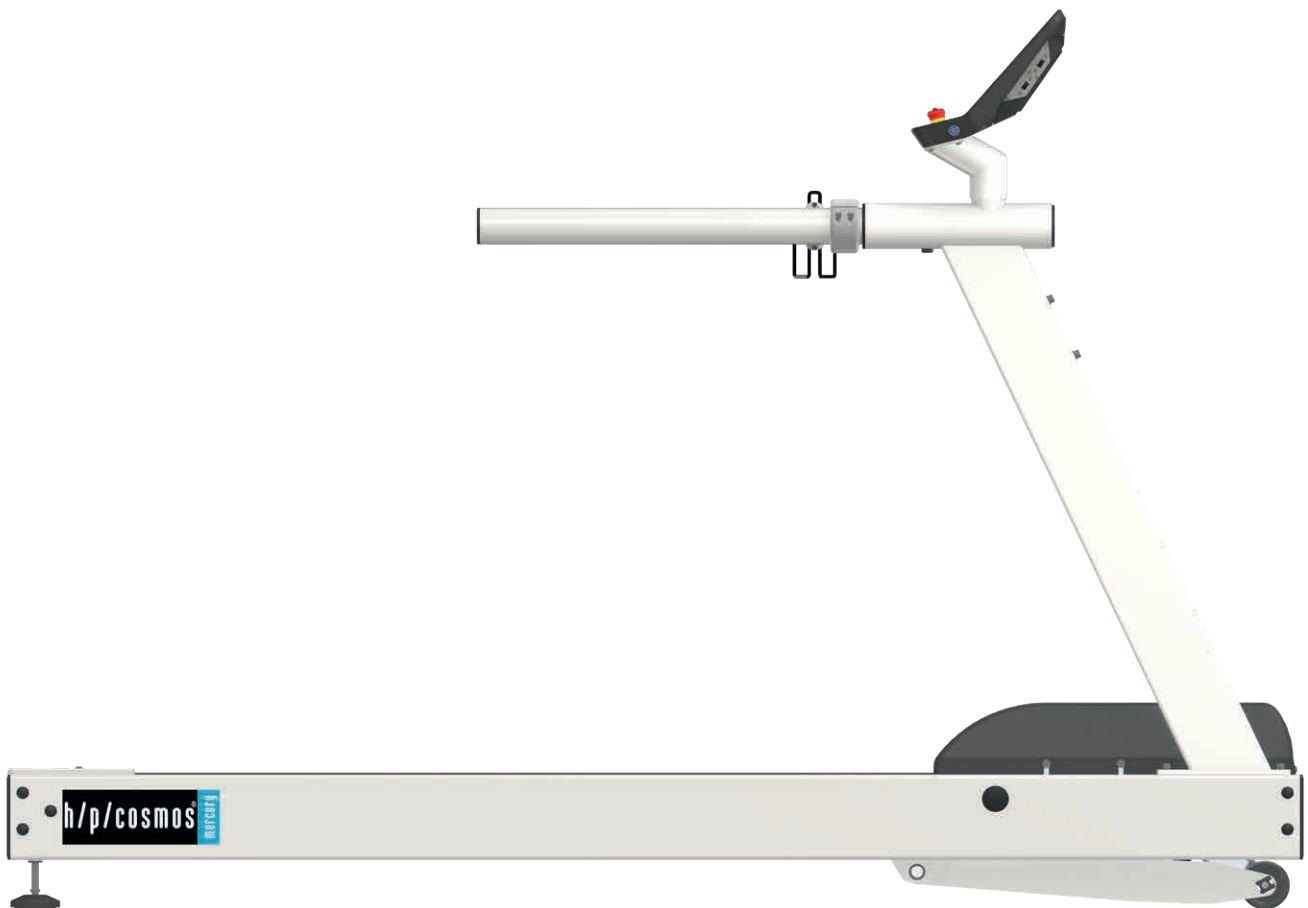




mercury®

**SPORTS, DIAGNOSTICS, MEDICAL AND
REHABILITATION TREADMILLS**



UserTerminal
 180°
 rotatable

mercury® med with standard handrails

RELIABLE TREADMILLS MADE IN GERMANY

German Engineering since 1988

Benefit from our experience since 1988 in manufacturing and servicing standard and customized treadmill solutions around the globe.



mercury® med with optional paediatric handrails
 [cos102400-01va01]

h/p/cosmos standard

h/p/cosmos has been developing and manufacturing treadmills since 1988 in Germany for various fields including fitness, competitive sports, sports medicine, orthopedic and neurological rehabilitation, sport science, biomechanics, uniformed services, performance diagnostics, cardiopulmonary diagnostics and rehabilitation. This experience, maximum standards in quality and advanced technology are the foundation of our business and reflected in every treadmill produced.

The outstanding level of h/p/cosmos products and service as well as attractive prices form the h/p/cosmos standard.

Stable and low-maintenance

With their stable frame, the treadmills are almost indestructible, very low-maintenance and offer both runner or patient a pleasant running feeling thanks to their state-of-the-art design. They also stand out due to their smooth running, their versatile functions, their powerful drive system and their timeless and user-friendly design.

Medical device (class IIb) and sports treadmills

Our treadmills are available as risk class IIb medical treadmills as well as sports treadmills. As a medical device, they are particularly suitable for the use in the fields of cardiology, neurology, cardiological rehabilitation and physiotherapy. The interface via coscom® v4 of the h/p/cosmos treadmill and ergometer series enables the connection to ECG, ergospirometry systems, blood pressure monitors and software programs.

Customer-specific configuration for individual solutions

Treadmills off the peg can be many, at h/p/cosmos you can also get your individually assembled treadmill solution with a large selection of options and accessories. Too little budget for the desired configuration? Changed demands on the treadmill system due to new business areas or new areas of application? No problem, most options and accessories can also be retrofitted at a later date. With h/p/cosmos you are always on the right track, because you cannot make the wrong decision due to the flexible and modular design.



mercury® med with optional long handrails [cos102918-01]
 and safety arch fall prevention [cos10079-01va01]



FLEXIBLE HANDRAIL CONCEPT

Some of our best selling handrail configurations:

The renewed h/p/cosmos handrail concept allows quick and flexible adaptations of the treadmill to various demands.



mercury® med
with standard handrails



mercury® med
with optional long handrails
[cos102918-01]



mercury® med
with optional adjustable handrails
"comfort" [cos104732_150]



mercury® med
with optional paediatric handrails
[cos102400-01va01]



mercury® med
with optional adjustable handrails
"comfort" [cos104732_150] and
therapist seats [cos104733_150]



mercury® med
with optional speed handrails [cos103651]
and extra wide footboards [cos103928]

Standard and long handrail

The ingeniously simple plug-in concept makes it a child's play to change the handrails and adapt them to the required application. As standard we deliver all treadmills of the mercury® series with handrails, which cover about half of the running surface length. By quickly loosening two hex head screws, the short handrail can be easily removed and replaced by the therapist or trainer with a long handrail (reaching to the end of the running surface), either on one side or on both sides (for extended safety when stepping onto the running deck).

Adjustable handrail

h/p/cosmos treadmills can also be supplied with height and width adjustable handrails. This variant is ideal if you serve a heterogeneous clientele. They offer the different patient types (from children, to small and tall persons as well as for obese patients) optimal conditions for therapy and/or training. In combination with the optional arm support, you also enable patients to train more safely and without fear. As an additional feature, the optional arm support offers the possibility of a manual unweighting by the patient relieving partial body weight on these stable pads. Additionally the adjustable handrail "comfort" is now available with its pneumatic spring support for even easier handling.

Paediatric handrail

For all the small patients it is necessary to equip the treadmill with a paediatric handrail system. This is no problem, since it can easily be placed in every treadmill instead of a standard handrail. This special addition for children is adjustable in just a few steps for max. flexibility. The handles on the sides can be adjusted with an allen key, the cross bar is adjustable tool free with a turning handle. The minimum height starts at 41 cm and ends in 82 cm above tread. The extra cross tube in front is also flexible in height and is continuously adjustable. This extra cross tube is an important safety feature for special exercises like sidesteps.



OPTIONS



mercury® med with adjustable handrails [cos102010va07],
airwalk® ap unweighting system [cos30028], robowalk® front
[cos30022-02va04] and back [cos30023-03]



Above Configuration with
reverse belt rotation [cos10181-03]



Arm support with 3 joints [cos12013-01] for all handrails
(Ø 60 mm) and additional keyboard [cos100680-01]

Additional options for your individual treadmill solution

The numerous additional options allow you to adapt h/p/cosmos treadmills exactly to your needs and your field of application. Some of our most successful options:

Safety arch fall prevention

In the event of a fall, the patient is caught with a safety harness and the treadmill is automatically stopped.

Unweighting system airwalk® ap (with optional emergency stop)

Unweighting system (dynamic and continuously adjustable approx. 0.5 ... 70 kg) and optional emergency stop (patient is caught in a vest or neoprene short and the treadmill stops). For operation of the airwalk® ap, a compressor is needed.

Reverse belt rotation

The running belt runs in the opposite direction. With the incline set at the same time, downhill running can be simulated. The option is available for all h/p/cosmos treadmills with incline option.

Active gait correction robowalk® expander

The h/p/cosmos robowalk® is a patented expander-pulley system for h/p/cosmos treadmills. The test person's legs are connected to the force level and force vector adjustable rubber cables via cuffs and offer support and resistance during the walking and running movement. Especially the traction support by the rubber cords is a valuable help for patients and therapists to perform exercises physiologically and longer, thus improving the therapy success.

Arm support (with additional stop button)

The individually adjustable arm supports give the patient stability and a feeling of safety. Arm support with 3 joints for handrails with Ø 60 mm or arm support for adjustable handrails are also available.

Additional keyboard

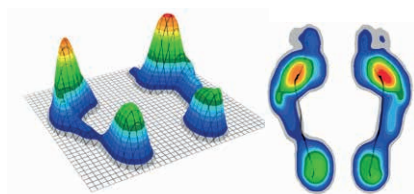
Using the additional keyboard, the patient can control the treadmill without removing the arms from the armrests. Therapists can control the treadmill externally from a comfortable position around the treadmill.

Wheelchair ramp

The wheelchair ramp enables patients to safely access the treadmill with walking aid or even with a wheelchair.



OPTIONS



comprehensive pressure plot visualisation

zebris pressure distribution

The mercury® series treadmills can be equipped or retrofitted with an integrated pressure distribution platform from the German manufacturer zebris.

This upgrade allows versatile applications for rehabilitation, training and analysis! Underneath the belt, a pressure sensor matrix is installed that contains several thousand calibrated, capacitive pressure sensors. The belt movement is compensated, so stable gait and roll-off parameters can be analysed and displayed in a comprehensive software interface as well as in reports - a well proven and established tool amongst therapists.



adaptive visual cueing [cos101291-01] with projected steps on the treadmill belt

Gait training and adaptive visual cueing

The initial gait analysis is carried out without any measuring preparations to be done on the patient. The measuring process can be observed on the screen in real-time. The report is automatically generated. In order to prepare the gait training using adaptive visual cueing, the parameters from the gait analysis (step length & width and foot rotation) are automatically transferred and can be individually adjusted according to training objectives. The values remain constant or gradually approach the target settings during the course of the training. During training the steps are projected onto the treadmill belt in the shape of the actual footprints, or alternatively as rectangles. Throughout the gait training the patient is instructed to position his or her feet as accurately as possible within the projected area. The gait training including visual stimulation/cueing is also possible when using an unweighting system and thus also allows for patients who are suffering from severe functional limitations to start therapy even at an early stage. The report documents the adherence to the target settings. On that basis, the target parameters can be adjusted to the patient's individual capability. For an optimal training control, two gait analyses are compared, e.g. before and after a training period.



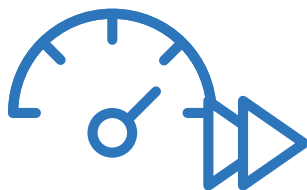
gait and coordination training on a treadmill using virtual feedback [cos101062] and dual-tasking

Gait and coordination training using virtual feedback

Physical and cognitive abilities are simultaneously demanded during dual-task-training in the virtual walking environment. The patient solves simple perceptual and memory tasks as well as arithmetic problems while walking and observing his or her footprints. Thus, reaction time and attentiveness are improved while simultaneously supporting automated walking. The various modules allow the training to be individually adapted to each patient.



PERTURBATION - INDIVIDUAL APPLICATIONS



Fast perturbation events

Research

Because of the majority of fall causes, research has focused on sudden accelerations, decelerations or stops of the treadmill (Kurz et al., 2016; Liu, Bhatt & Pai, 2016; McCrum et al., 2017; Pigman et al., 2019). While slips and trips are the main cause in real life, interferences in other planes can also happen. Science and industry have created various technical equipment, nevertheless they are cost-intensive and realism and relevance are often questionable.

h/p/cosmos perturbation module

The h/p/cosmos perturbation module can provide extremely sudden changes of the speed. This can be as sudden and unexpected, that it is mandatory to use a fall prevention system, such as the h/p/cosmos safety arch with harness or the unweighting system h/p/cosmos airwalk® ap. Due to the powerful motor, the acceleration can be as fast as 17.36 m/s^2 (for comparison: the sportscar Bugatti Veyron needs 2.6 sec from 0 ... 100 km/h, that equals 15.2 m/s^2). But most of the perturbation events within a training session will be on a lower level and allow a customized training to a wide spectrum of patients. In due course of the training progress, the intensity can be adjusted with a few clicks.

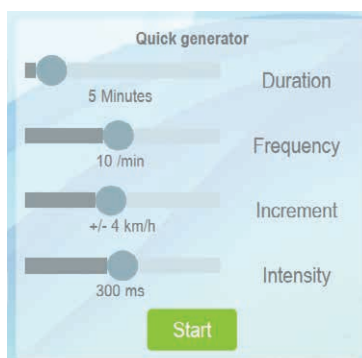


Perturbation profiles - switching between selfmade and preset profiles



Random factor

As in the real world the disturbances happen unexpectedly, the h/p/cosmos perturbation “quick generator” module includes a “random factor”. Subjects will not predict the exact time or kind of the next event.



Quick Generator for a quick and reliable adjustment of perturbation parameters

Individualization and progression matters

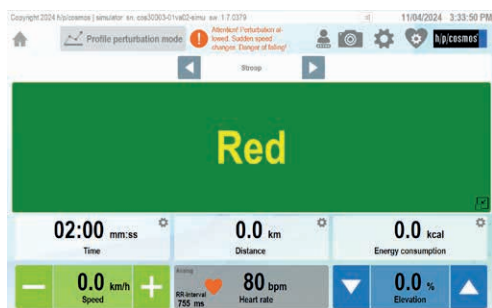
Single perturbation events or complex training sessions can be configured individually, within the profile editor. The fastest way to set up a gait stability training session, is to use the “quick generator”. Sliding bars for the total training duration, the frequency and intensity (speed change and length in milliseconds) can be defined easily. If the subjects tolerate the training well, the overall intensity can be increased in a controlled manner.



EVIDENCE DRIVEN DEVELOPMENT



dual tasking - name the country flag



dual tasking - stroop test



quick generator for quick and reliable adjustment of perturbation parameters

Focus matters

As long as the subjects focus on their perturbed walking task, they will probably learn to handle it. Like in reality, a rather simple task can get difficult if subjects perform a second task (e.g. typing a message on the mobile phone when walking). To create a more difficult and realistic training, the h/p/cosmos perturbation module allows to add dual tasking exercises, to redirect the focus to another task, away from walking. Cognitive tests, such as the Stroop test, simple - medium - hard mathematics, name the country flag, guess the country's capital, logical number sequences and other brain teasers will distract the subject from walking while stimulating the play instinct.

Literature:

Kurz, I., Gimmon, Y., Shapiro, A., Debi, R., Snir, Y., & Melzer, I. (2016) 'Unexpected perturbations training improves balance control and voluntary stepping times in older adults - a double blind randomized control trial', BMC Geriatrics, 16(1), p. 58.

Available at: <https://doi.org/10.1186/s12877-016-0223-4>

Liu, X., Bhatt, T., Pai, Y.-C. (Clive) (2016) 'Intensity and generalization of treadmill slip training: High or low, progressive increase or decrease?', Journal of Biomechanics, 49(2), pp. 135-140.

Available at: <https://doi.org/10.1016/j.jbiomech.2015.06.004>

McCrum, C., Gerards, M. H., Karamanidis, K., Zijlstra, W., & Meijer, K. (2017) 'A systematic review of gait perturbation paradigms for improving reactive stepping responses and falls risk among healthy older adults', European Review of Aging and Physical Activity, 14(1), p. 3.

Available at: <https://doi.org/10.1186/s11556-017-0173-7>

Pigman, J., Reisman, D. S., Pohlig, R. T., Wright, T. R., Crenshaw, J. R. (2019) 'The development and feasibility of treadmill-induced fall recovery training applied to individuals with chronic stroke', BMC Neurology, 19(1), p. 102.

Available at: <https://doi.org/10.1186/s12883-019-1320-8>



Random perturbation events with a geriatric patient to improve reactive balance



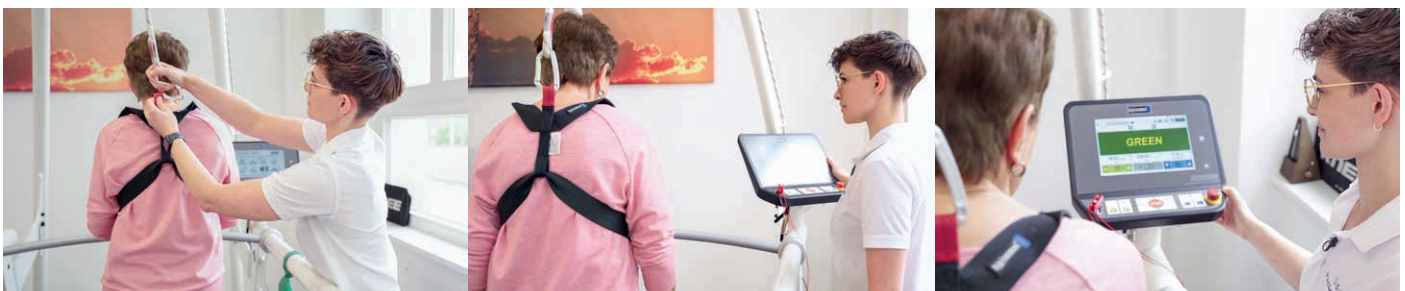
USERTERMINAL TOUCH (PRO) IN PRACTICE



The combination of a 10.1" TouchScreen and a hardware keyboard allow an anytime secure handling of the treadmill - especially in situations of urgency.



The ergonomic position and setup of the UserTerminal Touch (Pro) enables therapists and trainers to customize the training or even profile with little time expenditure.



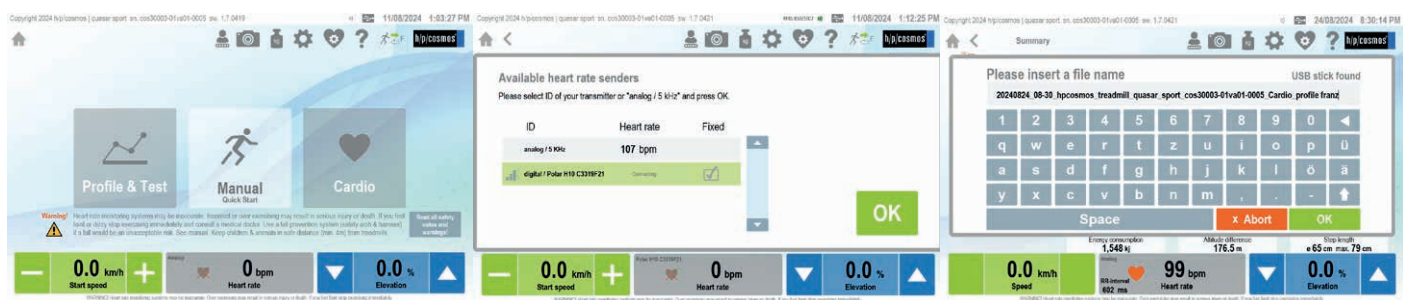
Gait stability training with optional perturbation module and safety arch fall prevention system for an elderly patient with Parkinson's disease.



USERTERMINAL TOUCH (PRO)

The UserTerminal Touch (Pro) is the powerful heart of the latest h/p/cosmos treadmill.

With the UserTerminal Touch and TouchPro, innovative features like perturbation and dual tasking could be released and can be intuitively controlled with very short training. The 10,1" Touch Screen provides a good overview without blocking angles of view for therapists while the additional hardware keyboard guarantees perfect handling also with medical gloves or under sweaty conditions.



Start screen with intuitive quick select buttons.

Selection of heart rate transmitters (5 kHz or Bluetooth®).

Personalization of reports (.pdf/.csv) enable traceability.



Clear and safe instructions in all areas of use.

Borg, modified Borg and Pain Scale allow detailed "in practice" tracking of athletes or patients subjective constitution.

Rating of perceived Exertion (RPE) is directly protocolled in the workout report and report chart.



Multi-purpose display allows a wide range of additional information and tests, e.g. programmable speed shortcuts, or optional dual tasking and cognitive tasks. The display for optional dual tasking screens or cognitive tasks can be extended to the full screen while keeping all important training parameters in scope.

CONFIGURATION MERCURY®: FITNESS



pos.	qty.	order number	product description
1.	1	cos31041	h/p/cosmos treadmill mercury® sport - running surface 150 x 50 cm, speed range 0 ... 22 km/h, elevation 0 ... 25 %, UserTerminal Touch with keyboard and touch display, integrated interface and coscom® v4 protocol
2.	1	cos101000_touch_pro	Upgrade UserTerminal Touch Pro , Upgrade of the UserTerminal Touch Basic to UserTerminal Touch Pro for professional applications and special features
3.	1	cos101000_NFC	NFC / RFID module for UserTerminal Touch (Pro)
4.	1	cos102488_iph_vesa	SmartPhone holder for UserTerminal Touch (Pro)
5.	1	cos102522va01	Packing treadmill 150/50 , packed part assembled on pallet with cardboard hood (L: 230 cm / W: 109 cm / H: 87 cm)
6.	1	cos15732-os	Transport / Installation overseas onsite at customer's facility, incl. traveling, hotel, labour costs and training

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Subject to our general terms of trade: www.hpcosmos.com

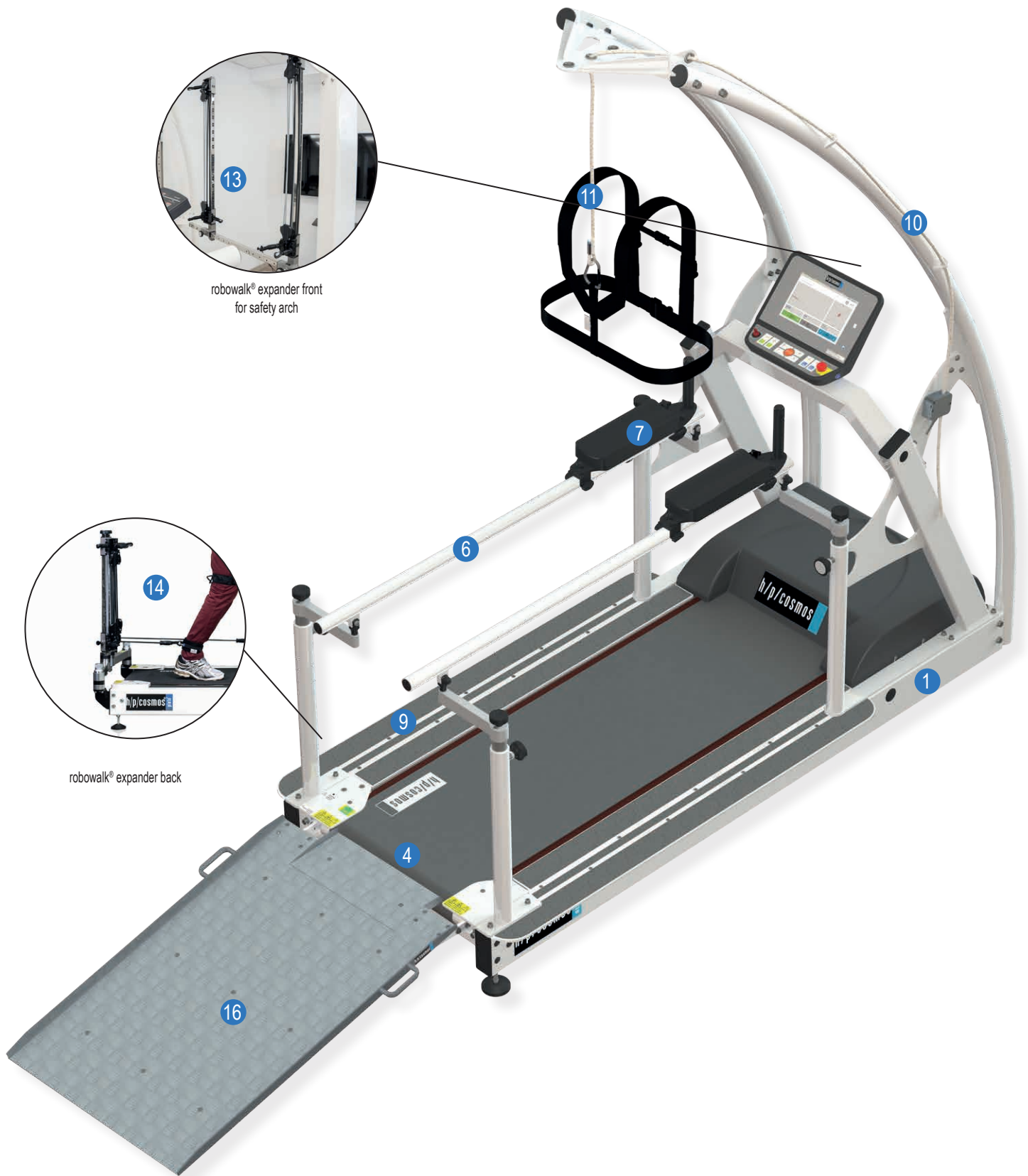
CONFIGURATION MERCURY® MED: DIAGNOSTICS



pos.	qty.	order number	product description
1.	1	cos31042	h/p/cosmos treadmill mercury® med - running surface 150 x 50 cm, speed range 0 ... 22 km/h, elevation 0 ... 25 %, UserTerminal Touch with keyboard and touch display, integrated interface and coscom® v4 protocol
2.	1	cos101000_touch_pro	Upgrade UserTerminal Touch Pro , Upgrade of the UserTerminal Touch Basic to UserTerminal Touch Pro for professional applications and special features
3.	1	cos101000_metronome	Acoustic cueing for individually setting the cadence target
4.	1	cos102918-01	Handrails long , straight for treadmills with running surface 150 x 50 cm
5.	1	cos10079-01va01	Safety arch 50 with harness & chest belt / stop function incl. chest belt size M, fall protection for all applications (mandatory for high risk applications); running surface 50 cm wide
6.	1	cos14903-04-S	Chestbelt S for safety arch system - colour code: red, for chest measurement approx. 65-95 cm
7.	1	cos14903-04-L	Chestbelt L for safety arch system - colour code: yellow, for chest measurement approx. 105-135 cm
8.	1	cos00097010034	Connection cable RS232 5 m (Sub-D 9-pin male/female)
9.	1	cos12769-01	USB to RS232 converter , converter from USB to serial port RS232 (Sub-D 9-pin male)
10.	1	cos102522va03	Packing treadmill 150/50 (SA) , packed part assembled on pallet with cardboard hood, incl. safety arch (L: 274 cm / W: 122 cm / H: 94 cm)
11.	1	cos15732-os	Transport / Installation overseas onsite at customer's facility, incl. traveling, hotel, labour costs and training

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CONFIGURATION MERCURY® MED: GAIT REHABILITATION ADVANCED



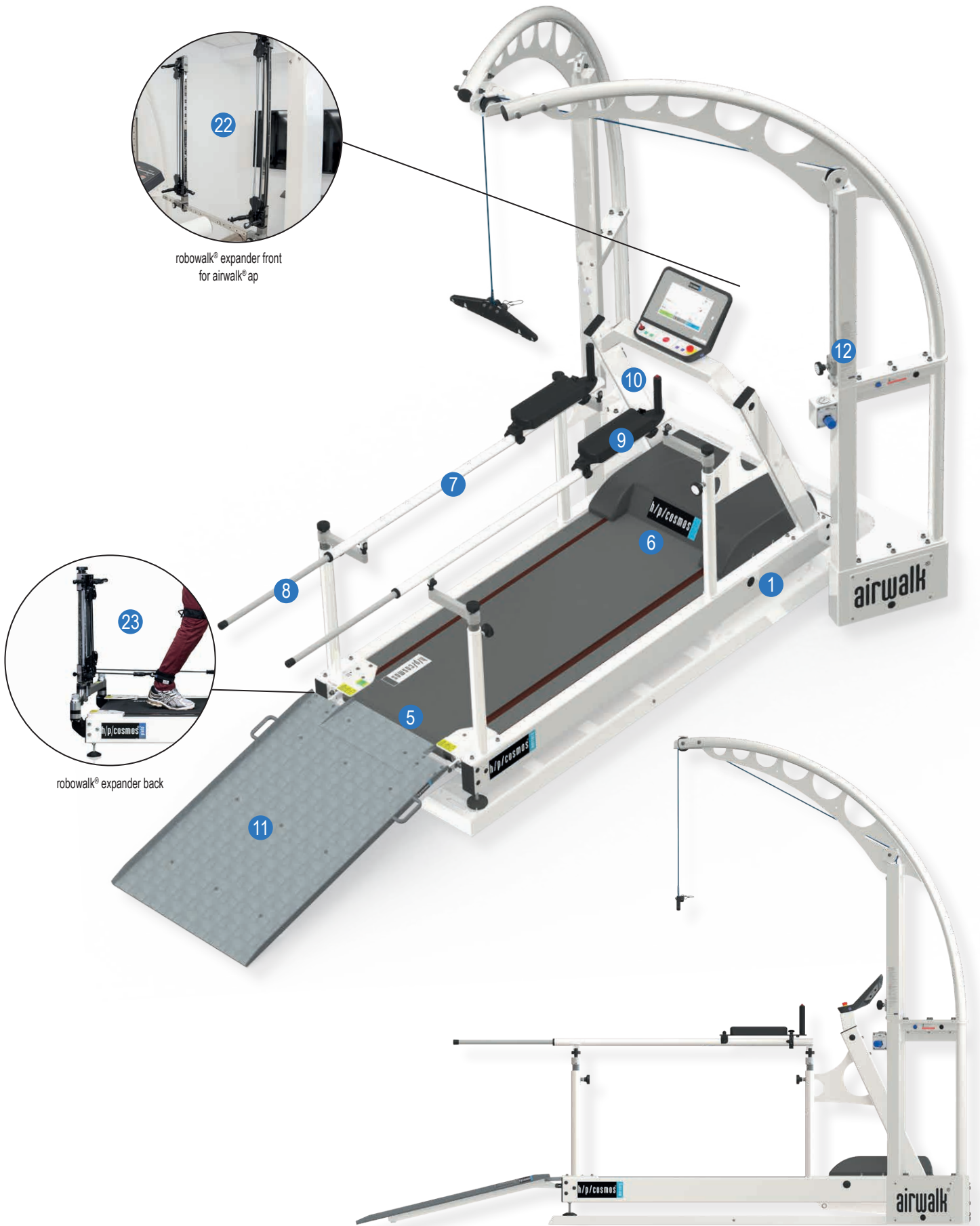
CONFIGURATION MERCURY® MED: GAIT REHABILITATION ADVANCED

pos.	qty.	order number	product description
1.	1	cos31042	h/p/cosmos treadmill mercury® med running surface 150 x 50 cm, speed range 0 ... 22 km/h, elevation 0 ... 25 %, UserTerminal Touch with keyboard and touch display, integrated interface and coscom® v4 protocol
2.	1	cos101000_touch_pro	Upgrade UserTerminal Touch Pro , Upgrade of the UserTerminal Touch Basic to UserTerminal Touch Pro for professional applications and special features
3.	1	cos101000sw_pert-V1.0	Perturbation software for sudden deceleration and acceleration of the treadmill belt speed respectively of the belt.
4.	1	cos101000_reverse-02va02	Reverse belt rotation (downhill) , incl. belt centering rolls, max. reverse speed: 5 km/h without safety
5.	1	cos101000_brake_as	Motor brake ; prevents the majority of belt movement at target speed "0"
6.	1	cos102010-01va02	Handrails adjustable 150/50; bar length 1500 mm, locking bar for height raster 25 mm for mercury® models 150/50 cm, H: 75 ... 120 cm / W: 38 ... 104 cm
7.	1	cos102560	Arm supports for handrails adjustable ; forearm support with hand grip for adjustable handrails
8.	1	cos16186-02	Wheelchair ramp (L: 125 cm x W: 80 cm) enables the patients' wheelchair to be pushed onto the treadmill
9.	1	cos103928	Extra wide footboard (both sides) 150/50
10.	1	cos10079-01va01	Safety arch 50 with harness & chest belt / stop function incl. chest belt size M, fall protection for all applications (mandatory for high risk applications); running surface 50 cm wide
11.	1	cos14903-04-S	Chestbelt S for safety arch system - colour code: red, for chest measurement approx. 65-95 cm
12.	1	cos14903-04-L	Chestbelt L for safety arch system - colour code: yellow, for chest measurement approx. 105-135 cm
13.	1	cos104835_50-01	robowalk® expander front for treadmills with safety arch
14.	1	cos104836	robowalk® expander back (rear) incl. Leg cuff thigh size M and Leg cuff shank XS
15.	1	cos101050-S	Leg cuff thigh S (250 - 390 mm), 1 pair
16.	1	cos101050-L	Leg cuff thigh L (490 - 750mm), 1 pair
17.	1	cos102522-01va07	Packing treadmill 150/50 (SA), full assembled in wooden box, incl. safety arch (L: 274 cm / W: 122 cm / H: 163 cm)
18.	1	cos15732-os	Transport / Installation overseas onsite at customer's facility, incl. traveling, hotel, labour costs and training

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CONFIGURATION MERCURY® MED: GAIT REHABILITATION PROFESSIONAL

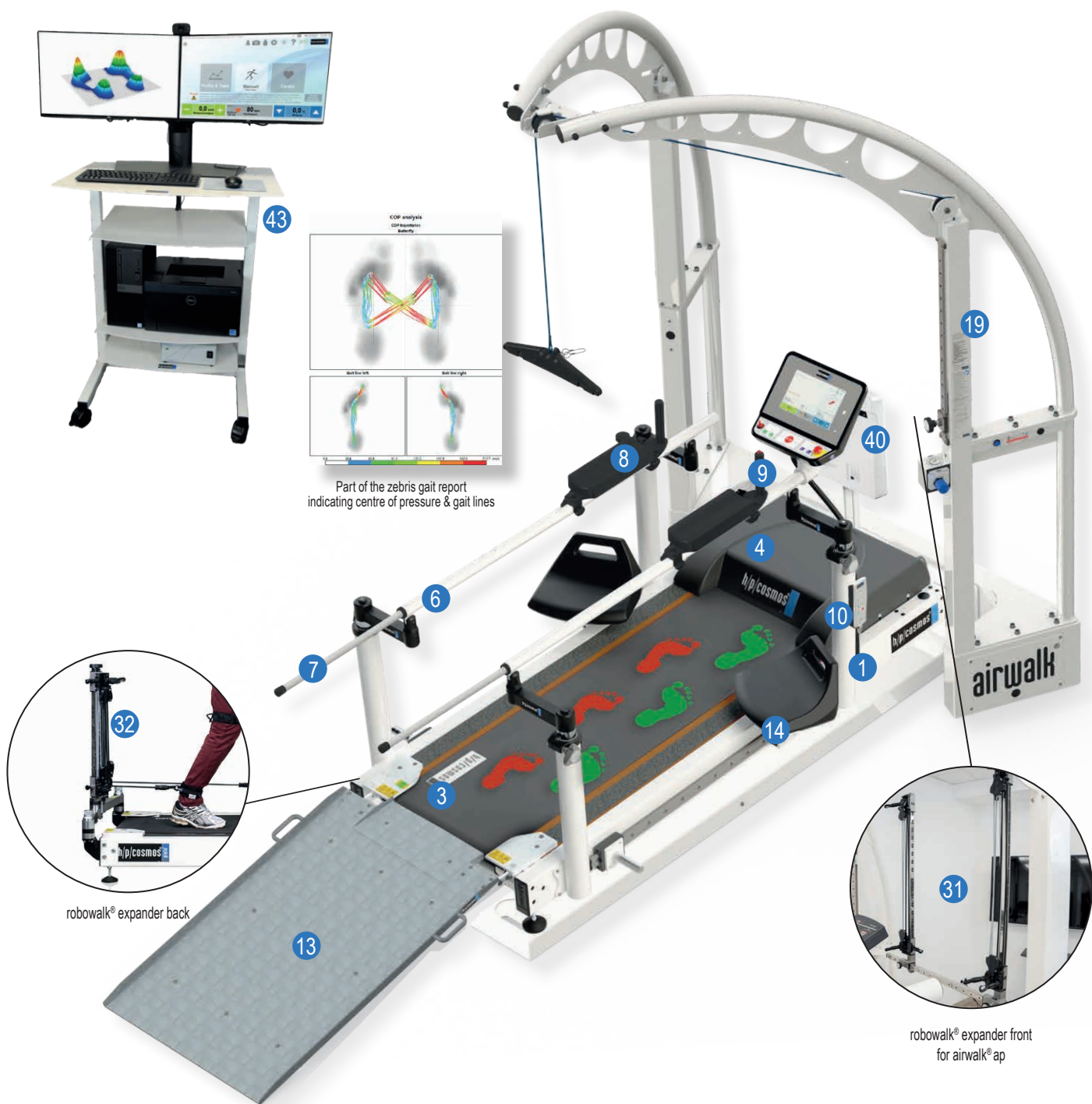


CONFIGURATION MERCURY® MED: GAIT REHABILITATION PROFESSIONAL

pos.	qty.	order number	product description
1.	1	cos31042	h/p/cosmos treadmill mercury® med - running surface 150 x 50 cm, speed range 0 ... 22 km/h, elevation 0 ... 25 %, UserTerminal Touch with keyboard and touch display, integrated interface and coscom® v4 protocol
2.	1	cos101000_touch_pro	Upgrade UserTerminal Touch Pro , Upgrade of the UserTerminal Touch Basic to UserTerminal Touch Pro for professional applications and special features
3.	1	cos101000sw_pert-V1.0	Perturbation software for sudden deceleration and acceleration of the treadmill belt speed respectively of the belt.
4.	1	cos104551	Additional keyboard with magnet holder UserTerminal 10.1" Touch ; mobile remote control with 6 keys with a approx. 2 m coiled cord - with magnet holder for all handrails
5.	1	cos101000_reverse-02va02	Reverse belt rotation (downhill) , incl. belt centering rolls, max. reverse speed: 5 km/h without safety
6.	1	cos101000_brake_as	Motor brake ; prevents the majority of belt movement at target speed "0"
7.	1	cos102010-01va02	Handrails adjustable 150/50; bar length 1500 mm, locking bar for height raster 25 mm for mercury® models 150/50 cm, H: 75 ... 120 cm / W: 38 ... 104 cm
8.	1	cos102899	Extension rods for adjustable handrail D= 25 mm offer another 550 mm length to the back
9.	1	cos102560	Arm supports for handrails adjustable ; forearm support with hand grip for adjustable handrails
10.	1	cos10107	Additional stop-button right , stop-button for hand grip in the arm support, right hand side
11.	1	cos16186-02	Wheelchair ramp (L: 125 cm x W: 80 cm) enables the patients' wheelchair to be pushed onto the treadmill
12.	1	cos30028	airwalk® ap , unweighting device dynamic up to approx. 70 kg, compressor or compressed air supply required (max. 250 kg / 551 lbs body weight), incl. vest & chest belt size M
13.	1	cos103058	Compressor for airwalk® ap , 8 bar
14.	1	cos102342-01	Emergency stop for airwalk® ap , additional function of airwalk® ap also as fall prevention system (safety arch) with autom. treadmill belt stop
15.	1	cos100432-02	Extension sling set 60 cm , for small subjects (children) in airwalk vest XS
16.	1	cos10095-vest-XS	Vest XS for h/p/cosmos airwalk®, size XS (thorax circumference: 76-84 cm), colour code white
17.	1	cos10095-vest-S	Vest S for h/p/cosmos airwalk®, size S (thorax circumference: 85-92 cm), colour code red
18.	1	cos10095-vest-L	Vest L for h/p/cosmos airwalk®, size L (thorax circumference: 106-114 cm), colour code green
19.	1	cos10095-neo-S	neoprene shorts S for h/p/cosmos airwalk®, size S (waist: 55-92 cm)
20.	1	cos10095-neo-M	neoprene shorts M for h/p/cosmos airwalk®, size M (waist: 93-105 cm)
21.	1	cos10095-neo-L	neoprene shorts L for h/p/cosmos airwalk®, size L (waist: 106-114 cm)
22.	1	cos104835_aw	robowalk® expander front for treadmills with airwalk® ap
23.	1	cos104836	robowalk® expander back (rear) incl. Leg cuff thigh size M and Leg cuff shank XS
24.	1	cos101050-S	Leg cuff thigh S (250 - 390 mm), 1 pair
25.	1	cos101050-L	Leg cuff thigh L (490 - 750mm), 1 pair
26.	1	cos102522va04	Packing treadmill 150/50, fully assembled with cardboard hood (L: 230 cm / W: 109 cm / H: 169 cm)
27.	1	cos102538-02va02	Packing airwalk® ap , packed part assembled on pallet with cardboard hood (L: 230 cm / W: 109 cm / H: 90 cm)
28.	1	cos15732-os	Transport / Installation overseas onsite at customer's facility, incl. traveling, hotel, labour costs and training
29.	1	cos100925-os	Installation overseas airwalk® ap onsite at customer's facility, incl. traveling, hotel, labour costs and training
30.	1	cos101094	1-day application workshop , includes costs for specialist / referent, not included flight, logistics, hotel, etc. (need to be charged separately)

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CONFIGURATION MERCURY® MED: GAIT REHABILITATION PREMIUM



pos.	qty.	order number	product description
1.	1	cos31042	h/p/cosmos treadmill mercury® med - running surface 150 x 50 cm, speed range 0 ... 22 km/h, elevation 0 ... 25 %, UserTerminal Touch with keyboard and touch display, integrated interface and coscom® v4 protocol
2.	1	cos101000_touch_pro	Upgrade UserTerminal Touch Pro, Upgrade of the UserTerminal Touch Basic to UserTerminal Touch Pro for professional applications and special features
3.	1	cos101000_reverse-02va02	Reverse belt rotation (downhill), incl. belt centering rolls, max. reverse speed: 5 km/h without safety
4.	1	cos101000_brake_as	Motor brake; prevents the majority of belt movement at target speed "0"
5.	1	cos101000sw_pert-V1.0	Perturbation software for sudden deceleration and acceleration of the treadmill belt speed respectively of the belt.
6.	1	cos104732_150	Comfort-handrails adjustable in height and width for treadmill models 150/50
7.	1	cos102899	Extension rods for adjustable handrail D= 25 mm offer another 550 mm length to the back
8.	1	cos102560	Arm supports for handrails adjustable; forearm support with hand grip for adjustable handrails
9.	1	cos10107	Additional stop-button right, stop-button for hand grip in the arm support, right hand side

CONFIGURATION MERCURY® MED: GAIT REHABILITATION PREMIUM

pos.	qty.	order number	product description
10.	1	cos104551	Additional keyboard with magnet holder UserTerminal 10.1" Touch ; mobile remote control with 6 keys with a approx. 2 m coiled cord - with magnet holder for all handrails
11.	1	cos100816-01	Extension cable for additional keyboard , Spiral cable extendable to 1,6 meters
12.	1	cos10111-03	Mount for an external keyboard , designed to be screwed onto the armrests
13.	1	cos16186-02	Wheelchair ramp (L: 125 cm x W: 80 cm) enables the patients' wheelchair to be pushed onto the treadmill
14.	1	cos104733_150	Therapist seats with foot rests for both sides of the treadmill (Only for initial equipment)
15.	1	cos14903-04-XS	Chestbelt XS for safety arch system - colour code: black, for chest measurement approx. 55-75 cm
16.	1	cos14903-04-S	Chestbelt S for safety arch system - colour code: red, for chest measurement approx. 65-95 cm
17.	1	cos14903-04-L	Chestbelt L for safety arch system - colour code: yellow, for chest measurement approx. 105-135 cm
18.	1	cos14903-04-XL	Chestbelt XL for safety arch system - colour code: green, for chest measurement approx. 125-155 cm
19.	1	cos30028	airwalk® ap , unweighting device dynamic up to approx. 70 kg, compressor or compressed air supply required (max. 250 kg / 551 lbs body weight), incl. vest & chest belt size M
20.	1	cos103275	Compressor for airwalk® ap , 10 bar
21.	1	cos102342-01	Emergency stop for airwalk® ap , additional function of airwalk® ap also as fall prevention system (safety arch) with autom. treadmill belt stop
22.	1	cos100432-02	Extension sling set 60 cm, for small subjects (children) in airwalk vest XS
23.	1	cos10095-vest-XS	Vest XS for h/p/cosmos airwalk®, size XS (thorax circumference: 76-84 cm), colour code white
24.	1	cos10095-vest-S	Vest S for h/p/cosmos airwalk®, size S (thorax circumference: 85-92 cm), colour code red
25.	1	cos10095-vest-L	Vest L for h/p/cosmos airwalk®, size L (thorax circumference: 106-114 cm), colour code green
26.	1	cos10095-vest-XL	Vest XL for h/p/cosmos airwalk®, size XL (thorax circumference: 116-130 cm), colour code blue
27.	1	cos10095-neo-S	neoprene shorts S for h/p/cosmos airwalk®, size S (waist: 55-92 cm)
28.	1	cos10095-neo-M	neoprene shorts M for h/p/cosmos airwalk®, size M (waist: 93-105 cm)
29.	1	cos10095-neo-L	neoprene shorts L for h/p/cosmos airwalk®, size L (waist: 106-114 cm)
30.	1	cos10095-neo-XL	neoprene shorts XL for h/p/cosmos airwalk®, size XL (waist: 115-123 cm)
31.	1	cos104835_aw	robowalk® expander front for treadmills with airwalk® ap
32.	1	cos104836	robowalk® expander back (rear) incl. Leg cuff thigh size M and Leg cuff shank XS
33.	1	cos101050-S	Leg cuff thigh S (250 - 390 mm), 1 pair
34.	1	cos101050-L	Leg cuff thigh L (490 - 750mm), 1 pair
35.	1	cos100990_240	zebris FDM/Pressure Measurement Plate 2i 240 Hz , upgrade for running surface 150/50, without treadmill, optional pressure distribution measurement plate 111.8 x 49.5 cm, 3,432 sensors, 240 Hz, price valid only for initial setup, includes zebris FDM software for gait analysis
36.	1	cos100385i-01	zebris SyncCam HS 90 (camera without tripod), video camera 60 Hz, video camera 60 fps Full HD (1920x1080), 90 fps HD (1280x720), 120fps VGA (640x480)
37.	1	cos100385b	zebris stand for SyncCam or SyncLightCam (mobile); mobile stand for SyncCam and SyncLightCam with integrated cable fixation
38.	1	cos100384	zebris FDM-Stance Modul ; extra software module for stance & balance analysis for instrumented biomechanic treadmill or platform stand alone
39.	1	cos101291-01	zebris visual stimulation upgrade for 150/50 (Rehawalk®); video projector, mounting and software for gait training through step projection on h/p/cosmos treadmill 150/50 cm
40.	1	cos101062	zebris software-module virtual training (without monitor!) interactive gait training on a virtual forest path incl. five gait modules in different levels of difficulty for augmented feedback on the instrumented h/p/cosmos treadmill (without monitor, without stand)
41.	1	cos102521	zebris Editor Module Virtual Training "forest walk" an editor for adding obstacles of varying difficulty levels to the treadmill
42.	1	cos104616	zebris Virtual Running Environment Software Module (no monitor required!) - Interactive treadmill training on a virtual forest trail
43.	1	cos14970-03	h/p/cosmos satellite PC med DELL PC, 2x 24" LED Monitor, COL Laser printer, potential isolation transformer, h/p/cosmos PC-rack with 4 casters
44.	1	cos102397	LED monitor TV 50" (with a small monitor stand for table) for example for SpeedLab®, gaitway® display or for the virtual training module of zebris
45.	1	cos101624	Monitor stand mobile for LED TV 32-60" monitor stand (without monitor!) for additional TV / monitor (max. load: 30 kg), height: 180 cm.
46.	3	cos60098010004	Labour costs per hour system specialist & software
47.	1	cos102522va04	Packing treadmill 150/50, full assembled with cardboard hood (L: 230 cm / W: 109 cm / H: 169 cm)
48.	1	cos102538-02va02	Packing airwalk® ap , packed part assembled on pallet with cardboard hood (L: 230 cm / W: 109 cm / H: 90 cm)
49.	1	cos15732-os	Transport / Installation overseas onsite at customer's facility, incl. traveling, hotel, labour costs and training
50.	1	cos100925-os	Installation overseas airwalk® ap onsite at customer's facility, incl. traveling, hotel, labour costs and training
51.	1	cos101094	1-day application workshop , includes costs for specialist / referent, not included flight, logistics, hotel, etc. (need to be charged seperately)

E & OE. Subject to alterations without prior notice. The illustrations may show accessories and items of optional equipment which are not part of standard specification or the recommended configuration. Subject to our general terms of trade: www.hpcosmos.com

model name:	mercury® sport
manufacturer:	h/p/cosmos sports & medical gmbh / Germany
country of origin:	Germany
EUDAMED SRN:	not applicable for sports devices
order number:	cos31041
UDI-DI	40505880037392 / GS1
Basic UDI-DI:	4050588cos31000R4
product family:	treadmill h/p/cosmos 150/50 G7
EMDN Code:	not applicable for sports devices
UMDNS Code:	not applicable for sports devices
GMDN Code:	not applicable for sports devices
applications:	endurance training walking and running
control:	UserTerminal with keyboard and touch display, alternatively via integrated interface coscom® v4
running deck:	L x W: 150 x 50 cm (4' 11.1" x 1' 7.6") access height: 23 cm (9.1") - shock load reduction for the joints - running belt with slip resistant surface - reinforced running belt with profiled surface, 5 mm thick - max. permissible load: 300 kg (660 lbs)
speed range:	0.0 ... 22.0 km/h (0.0 ... 6.1 m/s) (0.0 ... 13.6 mph)
acceleration:	7 acceleration / deceleration levels (0.053...2.315 m/s²) levels 1 to 4 enabled, levels 5 to 7 at extra charge
elevation:	0.0 ... 25.0 % (0.0 ... 14.0°) motorized adjustment (-25 % ... +25 % when using optional reverse belt rotation)
running direction:	reverse belt rotation at extra charge without fall prevention the max. speed for reverse belt rotation is limited to 5 km/h (3.1 mph)
drive motor:	2.2 kW (3 PS) 3-phase AC motor, maintenance free and brushless. 20 years warranty on main drive motor. 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:	CE machinery regulation (EU) 2023/1230; EN 60335-1; EN 60601-1-2 (EMC tested); ISO 20957-1; ISO 20957-6; EN 14971; emergency-stop mushroom push button (drives power off) emergency-stop with 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 ISO 20957-6
earth leakage current:	< 2.5 mA
ambient conditions:	temperature: +5 ... +40 °C (-30 ... +50 °C on request) humidity: 0 ... 85 % (up to 100 % on request) air pressure: 700 ... 1,060 hPa; 3,000 m (~10,000 ft) max altitude without pressurization
display (resolutions) parameter: (It-devices via PC)	25.9 cm / 10.1" (1280x800), color touch display speed, time, elevation, distance, (It-devices via PC) heart rate, heart rate variability, energy consumption, altitude, power, pace, METs, diagram view of heart rate and load parameter, parameter export to USB
units:	metric / imperial
heart rate monitoring:	heart rate receiver included, BLE - Bluetooth®, automatic control of speed and elevation according to programmed target heart rate ("cardio mode")
interfaces:	LAN / RJ45, RS232, USB, RFID / NFC Reader (optional at extra charge) Bluetooth® (optional at extra charge)
programs: (It-devices via PC)	programs / profiles (predefined) - exercise profiles (scalable) - many test profiles (UKK Walktest, Conconi, Graded test, Gardner, Naughton, Ellestad, Cooper, Balke, Bruce, etc.) - freely definable programs also for further processing
PC software (incl.):	para control® for display & remote control
accessory (incl.):	instruction for use on USB media-stick, lubrication oil, allen-key

accessories (incl.):	instruction for use on USB stick, service kit, 5 m LAN cable
frame color:	pure white RAL 9010 (powder coated)
handrails:	steel tube handrails Ø 60 mm on both sides; over min. 1/3 of treadmill length, other handrail designs optional at extra charge
power supply:	200 ... 240 Volt AC 1~N/PE 50/60 Hz 16A type C fuse; dedicated circuit, line and protection
dimensions:	L x W x H: 210 x 93 x 149 cm (6' 10.7" x 3' 0.61" x 4' 10.66")
mass of device:	approx. 225 kg (495 lbs)
packing size:	approx. L x W x H: 230 x 110 x 90 cm (7' 6.6" x 3' 7.3" x 2' 11.4") depending on accessories and requirements
mass of packaging:	approx. 75 ... 265 kg (165 ... 585 lbs) depending on accessories and requirements

E&OE. Subject to alterations without prior notice.

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



SPECIFICATIONS MERCURY® MED

model name:	mercury® med
manufacturer:	h/p/cosmos sports & medical gmbh / Germany
country of origin:	Germany
EUDAMED SRN:	DE-MF-000006147
order number:	cos31042
UDI-DI:	40505880037460 / GS1
Basic UDI-DI:	4050588cos31000R4
product family:	treadmill h/p/cosmos 150/50 G7
EMDN Code:	Z129006: Treadmills for physiotherapy and/or diagnostic uses
UMDNS Code:	14-141 Running Machine
GMDN Code:	33015 EXERCISER, TREADMILL, LINE-POWERED
applications:	endurance training walking and running, stress device for performance testing, gait analysis and gait training
control:	UserTerminal with keyboard and touch display, alternatively via integrated interface coscom® v4
running deck:	L x W: 150 x 50 cm (4' 11.1" x 1' 7.6") access height: 23 cm (9.1") - shock load reduction for the joints - running belt with slip resistant surface - reinforced running belt with profiled surface, 5 mm thick - max. permissible load: 300 kg (660 lbs)
speed range:	0.0 ... 22.0 km/h (0.0 ... 6.1 m/s) (0.0 ... 13.6 mph)
acceleration:	7 acceleration / deceleration levels (0.053 ... 2.315 m/s²) levels 1 to 4 enabled, levels 5 to 7 at extra charge
elevation:	0 ... 25 % (0 ... 14.0°) motorized adjustment (-25 % ... +25 % when using optional reverse belt rotation)
running direction:	reverse belt rotation at extra charge, without fall prevention the max. speed for reverse belt rotation is limited to 5 km/h (3.1 mph)
drive motor:	2.2 kW (3 HP) 3-phase AC motor, maintenance free and brushless, 20 years warranty on main drive motor. 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:	CE 0123; medical device regulation MDR (EU) 2017/745, machinery regulation (EU) 2023/1230; IEC 60601-1; EN 60601-1-2 (EMC tested); ISO 20957-1; ISO 20957-6; EN 14971; emergency-stop mushroom push button (drives power off) emergency-stop with pull-cord and clip, potential equalization bolt; transformer for potential-isolation from the mains
degree of protection:	appliance class I  / type B  / IP 20
classification:	medical device risk class IIb according to MDR, 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 ISO 20957-6
earth leakage current:	< 0.2 mA
ambient conditions:	temperature: +5 ... +40 °C (-30 ... +50 °C on request) humidity: 0 ... 85 % (up to 100 % on request) air pressure: 700 ... 1,060 hPa; 3,000 m (~10,000 ft) max altitude without pressurization
display (resolution):	25.9 cm / 10.1" (1280x800), color touch display
parameter: (It-devices via PC)	speed, time, elevation, distance, heart rate, heart rate variability energy consumption, altitude, power, pace, METs, diagram view of heart rate and load parameter, parameter export to USB
units:	metric / imperial
heart rate monitoring:	heart rate receiver included, BLE - Bluetooth® automatic control of speed and elevation according to programmed target heart rate („cardio mode“)
interfaces:	LAN / RJ45, RS232, USB RFID / NFC Reader (optional at extra charge) Bluetooth® (optional at extra charge)
programs: (It-devices via PC)	programs / profiles (predefined) - exercise profiles (scalable) - many test profiles (UKK Walktest, Conconi, Graded test, Gardner, Naughton, Ellestad, Cooper, Balke, Bruce, etc.) - freely definable programs also for further processing

PC software (incl.):	h/p/cosmos para control® for display & remote control;
accessories (incl.):	instruction for use on USB stick, service kit, 5 m LAN cable, 5 m PE-cable
frame color:	pure white RAL 9010 (powder coated)
handrails:	steel tube handrails Ø 60 mm on both sides, over min. 1/3 of treadmill length, other handrail designs optional at extra charge
power supply:	200 ... 240 Volt AC 1~/N/PE 50/60 Hz 16 A fuse dedicated circuit, line and protection
dimensions:	L x W x H: 210 x 93 x 149 cm (6' 10.7" x 3' 0.61" x 4' 10.66")
mass of device:	approx. 240 kg (530 lbs)
packing size:	approx. L x W x H: 230 x 110 x 90 cm (7' 6.6" x 3' 7.3" x 2' 11.4") depending on accessories and requirements
mass of packaging:	approx. 75 ... 265 kg (165 ... 585 lbs) depending on accessories and requirements

E&OE. Subject to alterations without prior notice.

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



SPECIFICATIONS AIRWALK® AP

model name:	h/p/cosmos airwalk® ap
manufacturer:	h/p/cosmos sports & medical gmbh / Germany
country of origin:	Germany
EUDAMED SRN:	DE-MF-000006147
order number:	cos30028
UDI-DI	40505880023050 / GS1
Basic UDI-DI:	4050588cos30028RK / GS1
product family:	body weight support device
EMDN Code:	Z120602, Y050201
UMDNS Code:	11-623
GMDN Code:	58876
applications:	body weight support (during treadmill therapy/training) fall protection (during treadmill therapy/training) unweighted and/or secured balance training unweighted and/or secured functional and gait training overspeed/hyperspeed and excess frequency training
control:	pneumatic valve with rotary knob
max. body weight:	250 kg (551 lbs) valid for frame and rope textiles such as vest and shorts excluded
max. body height:	200 cm (6,5 ft.) (standard) 225 cm (7,4 ft.) (optionally at extra charge) possible restrictions with treadmill inclination >10%
body weight support:	dynamic, continuously adjustable at 6 bar: max. 50 kg (110 lbs) at 8 bar: max. 70 kg (150 lbs) at 10 bar: max. 90 kg (200 lbs) optionally at extra charge at 8 bar: max. 120 kg (265 lbs) vertical amplitude approx. 70 cm (2.3 ft.) max. rotation 1 x 360°
safety systems:	CE medical device regulation (EU) 2017/745; machinery directive 2006/42/EG; ISO 20957-1; EN 14971; EN ISO 13485
classification:	medical device risk class I according to MDR, active therapeutic medical device
usage class:	S, I according to ISO 20957-1
ambient conditions:	temperature: +10 ... +30 °C; humidity: 30 ... 75 %; air pressure: 700 ... 1060 hPa
display:	analog manometer on device (standard)
resolution:	approx. 5 kg (10 lbs)
accessories (incl.)	instructions for use, 1 unweighting vest cos10095-vest-M (size M, thorax circumference 93 ... 105 cm) 1 safety harness cos14903-M (size M, chest circumference 85 ... 115 cm) further sizes XXS ... XL at extra charge neoprene pants size S, M, L at extra charge [cos10095-neo] 2 special carabiners for emergency release; extension slings (2x 10 cm, 2x 18 cm, 2x 45 cm) and carabiners for adaption to body height
compatibility:	h/p/cosmos treadmills pluto®, mercury®, locomotion®, quasar®, pulsar® external devices only with written confirmation by h/p/cosmos treadmill not within scope of delivery
frame color:	standard: pure white RAL 9010 (powder coated)
comp. air supply:	coupling plug acc. to ISO4414
size of frame:	L: 236 ... 276 cm (7.7 ... 9.1 ft.) (depending on treadmill) W: 177 cm (5.8 ft.) H: 273 cm (9.0 ft.) (standard) individual height (e.g. 248 cm or 298 cm) optionally at extra charge
net weight:	approx. 310 kg (683 lbs)
optionally available:	compressor 0 ... 8 bar (0 ... 116 psi) (cos103058) attention: 8 bar pressure correspond to max. 70 kg support compressor 0 ... 10 bar (0 ... 145 psi) (cos103016) 10 bar compressor incl. soundproofing hood

E & OE. Subject to alterations without prior notice.

The illustrations may show accessories and items of optional equipment which are not part of standard specification or the recommended configuration.

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Weight and dimensions may differ depending on accessories.

Alternative: connection to existing compressed air system with 8 ... 10 bar.

Furthermore optionally available at extra charge: emergency stop for running belt of an h/p/cosmos treadmill, pneumatic spring mode, robowalk expander, max. body weight support 160 / 240 kg (353 / 529 lbs), special frame colours, other options and accessories.

Warning! Installation, commissioning, instruction, maintenance and repair work only to be conducted by h/p/cosmos trained and authorised personnel. Inspect the rope (cos 102317) at least once a month visually for wear or damage. Rope has to be replaced annually or even earlier at first sign of wear or damage. For any application where falling might cause an unacceptable risk (e.g. newly operated hip patients, invasive probes, osteoporosis, etc.) the subject has to be secured by a safety harness [cos14903] additionally. For more information see the instructions for use.



This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

H/P/COSMOS PRODUCT LIST (MEDICAL)

medical

h/p/cosmos® treadmills		order number	running surface l/w	speed	elevation	power supply *	UserTerminal display	CE
pluto® lt med		cos31002	150 / 50 cm	0 ... 22 km/h	0 ... 25 %	200 ... 240 Volt AC 1~ / 16 Amp.	no	CE 0123
pluto® med		cos31022	150 / 50 cm	0 ... 22 km/h	0 ... 25 %	200 ... 240 Volt AC 1~ / 16 Amp.	10,1" touch & keyboard	CE 0123
pluto® ef med (emotion fitness touch-display)		cos31012	150 / 50 cm	0 ... 22 km/h	0 ... 25 %	200 ... 240 Volt AC 1~ / 16 Amp.	7" touch	CE 0123
stratos® med		cos31032	150 / 50 cm	0 ... 22 km/h	0 %	200 ... 240 Volt AC 1~ / 16 Amp.	10,1" touch & keyboard	CE 0123
mercury® med		cos31042	150 / 50 cm	0 ... 22 km/h	0 ... 25 %	200 ... 240 Volt AC 1~ / 16 Amp.	10,1" touch & keyboard	CE 0123
stellar® med, with UserTerminal 10,1" TouchPro		cos30003-01va06	170 / 65 cm	0 ... 25 km/h	0 %	230 Volt AC 1~ / 15 Amp.	10,1" touch & keyboard	CE 0123
quasar® med, with UserTerminal 10,1" TouchPro		cos30003-01va02	170 / 65 cm	0 ... 25 km/h	0 ... 28 %	230 Volt AC 1~ / 15 Amp.	10,1" touch & keyboard	CE 0123
stellar® med 190/65, with UserTerminal 10,1" TouchPro		cos30004-01va06	190 / 65 cm	0 ... 25 km/h	0 %	230 Volt AC 1~ / 15 Amp.	10,1" touch & keyboard	CE 0123
pulsar® med, with UserTerminal 10,1" TouchPro		cos30004-01va02	190 / 65 cm	0 ... 25 km/h	-25 ... +25 %	230 Volt AC 1~ / 15 Amp.	10,1" touch & keyboard	CE 0123
Treadmills for climate chambers available on request (for all sizes as an option at extra charge for climatic conditions from -35°C ... +55°C and 20% ... 95% humidity) with external UserTerminal.								
h/p/cosmos® neurological rehabilitation treadmills		order number	with adjustable handrails, therapists seats on both sides and foot rest				UserTerminal display	CE
locomotion® 150/50 DE med		cos30001-01va02	150 / 50 cm	0 ... 10 km/h	-25 ... +25 %	230 Volt AC 1~ / 15 Amp.	15,6" touch	CE 0123
locomotion® 190/65-3p DE med		cos30024va04	190 / 65 cm	0 ... 25 km/h	-25 ... +25 %	400 Volt AC 3~ / 15 Amp.	15,6" touch	CE 0123
h/p/cosmos® high performance treadmills		order number	running surface l/w	speed	elevation	power supply *	UserTerminal display	CE
quasar® med 3p, with MCU5 (6 displays)		cos30003va26	170 / 65 cm	0 ... 40 km/h	0 ... 28 %	400 Volt AC 3~ / 15 Amp.	yes	CE 0123
pulsar® lt 3p med, with MCU5		cos30004va02	190 / 65 cm	0 ... 40 km/h	-25 ... +25 %	400 Volt AC 3~ / 15 Amp.	no	CE 0123
pulsar® med 3p, with MCU5 (6 displays)		cos30004va04	190 / 65 cm	0 ... 40 km/h	-25 ... +25 %	400 Volt AC 3~ / 15 Amp.	yes	CE 0123
h/p/cosmos® oversize treadmills		order number	running surface l/w	speed	elevation	power supply *	UserTerminal display	CE
venus® 200/75		cos30005-01va05	200 / 75 cm	0 ... 40 km/h	-35 ... +35 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
venus® 200/75 r		cos30005-01va06	200 / 75 cm	0 ... 40 km/h	-35 ... +35 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
venus® 200/100		cos30006-01va05	200 / 100 cm	0 ... 40 km/h	-35 ... +35 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
venus® 200/100 r		cos30006-01va06	200 / 100 cm	0 ... 40 km/h	-35 ... +35 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
saturn® 250/75		cos30007-01va05	250 / 75 cm	0 ... 40 km/h	-27 ... +27 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
saturn® 250/75 r		cos30007-01va06	250 / 75 cm	0 ... 40 km/h	-27 ... +27 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
saturn® 250/100		cos30008-01va05	250 / 100 cm	0 ... 40 km/h	-27 ... +27 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
saturn® 250/100 r		cos30008-01va06	250 / 100 cm	0 ... 40 km/h	-27 ... +27 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
saturn® 250/125 r		cos30009-01va03	250 / 125 cm	0 ... 40 km/h	-27 ... +27 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
saturn® 300/75		cos30010-01va05	300 / 75 cm	0 ... 40 km/h	-27 ... +27 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
saturn® 300/75 r		cos30010-01va06	300 / 75 cm	0 ... 40 km/h	-27 ... +27 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
saturn® 300/100		cos30011-01va05	300 / 100 cm	0 ... 40 km/h	-27 ... +27 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
saturn® 300/100 r		cos30011-01va06	300 / 100 cm	0 ... 40 km/h	-27 ... +27 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
saturn® 300/125 r		cos30012-01va03	300 / 125 cm	0 ... 40 km/h	-27 ... +27 %	400 Volt AC 3~ / 32 Amp.	15" touch	CE 0123
Further oversize treadmills and specialised running machines with custom dimensions and specifications available on request.								
Treadmills for climate chambers available on request (for all sizes as an option at extra charge for climatic conditions from -35°C ... +55°C and 20% ... 95% humidity) with external UserTerminal.								
h/p/cosmos® biomechanics treadmills		with pressure measurement plates & gait analysis software (medical PC & printer not included)					UserTerminal display	CE
stratos® med		cos31032	150 / 50 cm	0 ... 22 km/h	optional	200 ... 240 Volt AC 1~ / 16 Amp.	10,1" touch & keyboard	CE 0123
+ gateway 3d med biomechanic-upgrade + 3 component (Fx,y,z) force measurement, requires additional subframe: [cos102999_subframe] / [cos102999_subframe_elev], with or without elevation		cos102999_150-50_MCU6va02						
stellar® med, with UserTerminal 10,1" TouchPro		cos30003-01va06						
+ gateway 3d med biomechanic-upgrade + 3 component (Fx,y,z) force measurement, requires additional subframe: [cos102999_subframe] / [cos102999_subframe_elev], with or without elevation		cos102999_170-65_MCU6va02	170 / 65 cm	0 ... 25 km/h	optional	230 Volt AC 1~ / 15 Amp.	10,1" touch & keyboard	CE 0123
Further biomechanic upgrades for example with pressure distribution sensor plates, see gateway, noraxon, zebris.								
h/p/cosmos® torqualizer® med ergometer series		order number	brake system	power range** optionally 750 W	rpm 1/min speed range	power supply *	max. user weight	CE
torqualizer® med 1200 with UserTerminal 10,1" TouchPro		cos30021va02	hybrid	25 ... 1000 watts **	15 ... >140 rpm **	100 ... 240 volts AC / 6 Amp.	200 kg	pending
torqualizer® cycle ef med 900		cos30021ef-med900	hybrid	15 ... 500 watts	15 ... 140 rpm	grid independent (cordless)	150 kg	CE 0633
torqualizer® arm ef med 900 stand model incl. crank lever adjustable in length		cos30030ef-med900	hybrid	15 ... 500 watts	15 ... 140 rpm	grid independent (cordless)	150 kg	CE 0633
torqualizer® arm ef med 900 wall model incl. crank lever adjustable in length		cos30030ef-med900-wm	hybrid	15 ... 500 watts	15 ... 140 rpm	grid independent (cordless)	150 kg	CE 0633
torqualizer® recumbent ef med 900		cos30031ef-med900	hybrid	15 ... 500 watts	15 ... 140 rpm	grid independent (cordless)	150 kg	CE 0633
torqualizer® cross ef med 900		cos30032ef-med900	hybrid	(15) 100 ... 500 watts	15 ... 140 rpm	grid independent (cordless)	150 kg	CE 0633
torqualizer® stair ef med 900		cos30033ef-med900	hybrid	sinking rate	4 ... 27 m/min	grid independent (cordless)	150 kg	CE 0633

* We recommend a dedicated line 3 phase power connection (400 Volt AC3~N/PE 50/60 Hz 16 to 32A fuse) and 3-phase device for high speed, fast acceleration, special applications and for heavier subjects due to higher performance. For all single phase powered treadmills the natural performance limitations of single phase voltage supply apply due to the law of physics. For professional performance diagnostics, athletic training and high performance applications we strongly recommend running machines with 3-phase voltage power supply from model size min. pulsar® 3p, venus® or saturn®. ** measured and calibrated up to 900 watts. Depending on gearings and revolutions per minute. Tolerances may occur on loads above 900 watts.

H/P/COSMOS PRODUCT LIST (SPORTS)

sports

h/p/cosmos® treadmills	order number	running surface l/w	speed	elevation	power supply *	UserTerminal display	CE
pluto® i sport	cos31001	150 / 50 cm	0 ... 22 km/h	0 ... 25 %	200 ... 240 Volt AC 1~ / 16 Amp.	no	CE
pluto® sport	cos31021	150 / 50 cm	0 ... 22 km/h	0 ... 25 %	200 ... 240 Volt AC 1~ / 16 Amp.	10,1" touch & keyboard	CE
pluto® ef sport (emotion fitness touch-display)	cos31011	150 / 50 cm	0 ... 22 km/h	0 ... 25 %	200 ... 240 Volt AC 1~ / 16 Amp.	7" touch	CE
stratos® sport	cos31031	150 / 50 cm	0 ... 22 km/h	0 %	200 ... 240 Volt AC 1~ / 16 Amp.	10,1" touch & keyboard	CE
mercury® sport	cos31041	150 / 50 cm	0 ... 22 km/h	0 ... 25 %	200 ... 240 Volt AC 1~ / 16 Amp.	10,1" touch & keyboard	CE
stellar®, with UserTerminal 10,1" TouchPro	cos30003-01va05	170 / 65 cm	0 ... 25 km/h	0 %	230 Volt AC 1~ / 15 Amp.	10,1" touch & keyboard	CE
quasar®, with UserTerminal 10,1" TouchPro	cos30003-01va01	170 / 65 cm	0 ... 25 km/h	0 ... 28 %	230 Volt AC 1~ / 15 Amp.	10,1" touch & keyboard	CE
stellar® sport 190/65, with UserTerminal 10,1" TouchPro	cos30004-01va05	190 / 65 cm	0 ... 25 km/h	0 %	230 Volt AC 1~ / 15 Amp.	10,1" touch & keyboard	CE
pulsar® sport, with UserTerminal 10,1" TouchPro	cos30004-01va01	190 / 65 cm	0 ... 25 km/h	-25 ... +25 %	230 Volt AC 1~ / 15 Amp.	10,1" touch & keyboard	CE
saturn® 450/300 rs sport, with UserTerminal 10,1" TouchPro	cos30013-02va01	450 / 300 cm	0 ... 40 km/h	-4 ... +25 %	400 Volt AC 3~ / 64 Amp.	10,1" touch & keyboard	CE

h/p/cosmos® biomechanics treadmills	with pressure measurement plates & gait analysis software (medical PC & printer not included)					UserTerminal display	CE
stratos® sport	cos31031	150 / 50 cm	0 ... 22 km/h	optional	200 ... 240 Volt AC 1~ / 16 Amp.	10,1" touch & keyboard	CE
+ gateway 3d sport biomechanic-upgrade + 3 component (Fx,y,z) force measurement, requires additional subframe: [cos102999_subframe] / [cos102999_subframe_elev], with or without elevation	cos102999_150-50_MCU6va01						
stellar®, with UserTerminal 10,1" TouchPro	cos30003-01va05	170 / 65 cm	0 ... 25 km/h	optional	230 Volt AC 1~ / 15 Amp.	10,1" touch & keyboard	CE
+ gateway 3d sport biomechanic-upgrade + 3 component (Fx,y,z) force measurement, requires additional subframe: [cos102999_subframe] / [cos102999_subframe_elev], with or without elevation	cos102999_170-65_MCU6va01						
pulsar® sport 3p, with MCU5 (6 displays)	cos30004va07	190 / 65 cm	0 ... 40 km/h	optional	400 Volt AC 3~ / 15 Amp.	yes	CE
+ gateway 3d biomechanics upgrade 3 component (Fx,y,z) force measurement requires additional subframe: [cos102999_subframe] / [cos102999_subframe_elev], with or without elevation	cos102999_190-65						

Further biomechanic upgrades for example with pressure distribution sensor plates, see gateway, noraxon, zebris.

h/p/cosmos® ladder ergometer	order number	height of climb: 235cm, rung width: 49.5cm / interval: 24.4cm	power supply *	UserTerminal display	CE
discovery®	cos30014va02	*endless* ladder ergometer for climbing	230 Volt AC 1~ / 15 Amp.	yes	CE

h/p/cosmos® sprint trainer / rope traction device	order number	traction force- and traction resistance-training	power supply *	UserTerminal display	CE
comet®	cos30015va01	sprint trainer concentric/eccentric. 180 meter rope, 1-phase	230 Volt AC 1~ / 15 Amp.	yes	CE
comet® 3p	cos30015va02	sprint trainer concentric/eccentric. 180 meter rope, 3-phase	400 Volt AC 3~ / 15 Amp.	yes	CE

h/p/cosmos® torqualizer® ergometer series	order number	brake system	power** optionally 750 W	rpm 1/min speed range	power supply *	max. user weight	CE
torqualizer® 1200 with UserTerminal 10,1" TouchPro	cos30021va01	hybrid	25 ... 1000 watts **	15 ... >140 rpm **	100 ... 240 volts AC / 6 Amp.	200 kg	pending
torqualizer® cycle ef 900	cos30021ef-900	hybrid	25 ... 500 watts	15 ... 140 rpm	grid independent (cordless)	150 kg	CE
torqualizer® arm ef 900 stand model incl. crank lever adjustable in length	cos30030ef-900	hybrid	25 ... 500 watts	15 ... 140 rpm	grid independent (cordless)	150 kg	CE
torqualizer® arm ef 900 wall model incl. crank lever adjustable in length	cos30030ef-900-wm	hybrid	25 ... 500 watts	15 ... 140 rpm	grid independent (cordless)	150 kg	CE
torqualizer® recumbent ef 900	cos30031ef-900	hybrid	25 ... 500 watts	15 ... 140 rpm	grid independent (cordless)	150 kg	CE
torqualizer® cross ef 900	cos30032ef-900	hybrid	(15) 100 ... 500 watts	15 ... 140 rpm	grid independent (cordless)	150 kg	CE
torqualizer® stair ef 900	cos30033ef-900	hybrid	sinking rate	4 ... 27 m/min	grid independent (cordless)	150 kg	CE

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sports
quasar®



cycling & athletics
saturn® 300/100r



performance diagnostics
pulsar® med



inline skating
saturn® 300/125r



functional training
pulsar® med + robowalk®



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



wheelchair
saturn® 300/125r



speed training / speedlab®
quasar® 3p



fitness
pluto® / mercury® / quasar® / pulsar®



motion analysis
quasar® med



expander training
robomove®



bike ergometer
torqualizer®



**biomechanics
gait parameters**
optogait

rehabilitation



active gait correction
robowalk® expander / mercury® med



senior fitness
mercury®



orthopaedic rehabilitation
mercury® med / arm support / airwalk® ap



cardiac rehabilitation
mercury® med



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



angiology
mercury® med



gait analysis / biomechanics
gaitway® 3d with force and
pressure measurement



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



locomotion therapy
locomotion® med 150/50



bike ergometer
torqualizer® 1200
medical certification pending

special applications



**environmental & climate
chambers**
quasar® med with
external UserTerminal



biomechanics
gaitway® 3d



military / army
quasar® special version



speed training
sprint trainer comet®



**ladder
training & fitness**
discovery®

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