### Recommended Configuration: h/p/cosmos robowalk® expander

<table>
<thead>
<tr>
<th>pos.</th>
<th>qty.</th>
<th>order number</th>
<th>product description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>cos30000va08</td>
<td>running machine h/p/cosmos mercury® med</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>running surface 150 x 50 cm, Speed 0 ... 22 km/h, Elevation 0 ... 25 %, drive motor 3.3 kW, Interface port com1 for PC, ECG, Ergospirometry, Blood-pressure system or printer - compatible to most of the systems worldwide, incl. PC software, h/p/cosmos para control for device control and monitoring</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>cos10145</td>
<td>handrail long, 2 pillars (surcharge)</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>cos10079va01</td>
<td>safety arch 50, harness, emergency switch</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>cos00098100045</td>
<td>reverse belt rotation for downhill simulation</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>cos12013</td>
<td>h/p/cosmos arm support with 3 joints, adjustable in height and width</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>cos10107</td>
<td>h/p/cosmos additional stop-button for arm support, right</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>cos100680</td>
<td>h/p/cosmos additional keyboard</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>cos10111-01</td>
<td>mounting for optional keyboard of arm support</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>cos11750</td>
<td>mounting for additional keyboard at the motor hood, right</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>cos14327</td>
<td>mounting for additional keyboard at the motor hood, left</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>cos30022va01</td>
<td>h/p/cosmos robowalk® expander front 150/50</td>
</tr>
<tr>
<td>12</td>
<td>1</td>
<td>cos30023va01</td>
<td>h/p/cosmos robowalk® expander back 150/50</td>
</tr>
<tr>
<td>13</td>
<td>1</td>
<td>cos10071-v4.1.0</td>
<td>h/p/cosmos para control 4.1.0</td>
</tr>
<tr>
<td>14</td>
<td>1</td>
<td>cos10223</td>
<td>potential equalization cable, 5 m (required for medical systems)</td>
</tr>
<tr>
<td>15</td>
<td>1</td>
<td>cos14795</td>
<td>pallet and cardboard hood 50</td>
</tr>
<tr>
<td>16</td>
<td>1</td>
<td>cos80098010021</td>
<td>shipping costs* door to door within Europe, approx, confirmed price on request</td>
</tr>
<tr>
<td>17</td>
<td>1</td>
<td>cos15732</td>
<td>installation &amp; Instruction treadmill through local distributor if applicable</td>
</tr>
</tbody>
</table>

*inclusive of shipping costs to your location. Please confirm before ordering.*

**Total Price:** Net, excluding VAT, excluding custom duties.

**VAT:** (19% in Germany, other VAT and/or custom duties may apply in other countries).

**System Price:** Please ask your dealer for a quotation.
Other applications for which h/p/cosmos is the specialist for high performance systems:

- performance diagnostics
- cycling
- motion analysis
- wheelchair
- sprint trainer (rope machine)
- fire fighting

**WARRANTY:** If an h/p/cosmos product does not operate properly, h/p/cosmos will repair or replace it at no charge, for up to one year from shipment date. Furthermore registration and a documented maintenance record (for example through maintenance contract or through authorized technicians) will extend the warranty for treadmill parts only to 3 years and 20 years on treadmill drive motor and main treadmill frame breakage. In the course of replacement or repair, h/p/cosmos may send you written recommendations of how to prevent re-occurrence of a problem. h/p/cosmos restricts the right to withdraw the warranty if the recommendations are not followed. The customer is responsible for transporting both to and from h/p/cosmos in all cases, local service may be available for which labour may be charged. This warranty is exclusive and in lieu of all other warranties whether written, oral or implied, including the warranty of fitness for any particular purpose. h/p/cosmos’ liability is, in all cases, limited to the replacement price of its product. h/p/cosmos shall not be liable for any other damages, whether indirect, consequential or incidental arising from the sale or use of its product. h/p/cosmos may modify this warranty by signing a specific written description of any modifications.

**SAFETY:** Please make sure that you read the user manual before operating any item of h/p/cosmos equipment, it contains both operating instruction and service requirements. Clinical staff should instruct their patients, and fitness staff or other professional staff should instruct their members and users in the use, safety and warnings of the equipment before use. Make sure that you have read and understood the safety requirements before using the equipment.

**LIABILITY:** Failure to comply with the conditions listed below shall absolve h/p/cosmos sports & medical gmbh from any responsibility for the safety, reliability and performance of this equipment. Each operator must read and understand the user manual before using the equipment for the first time. Each user must be instructed in the proper use of the equipment and its accessories. The electrical and mechanical installation of the equipment must comply with the local or national requirements and all installation guides from all respective manuals delivered with the equipment. The equipment must be used in accordance with the instructions for use. We recommend that operators of h/p/cosmos equipment are trained and certified by h/p/cosmos or their appointed agents before use of the equipment. Please contact h/p/cosmos for further details.

All h/p/cosmos running machines are manufactured by h/p/cosmos in Nussdorf-Traunstein/Germany. Accessories may be imported goods.

**Abbreviations:** t = without terminal (no display and no keyboard), b = for bicycle and wheelchair use. Wheelchair stabilizer is obligatory and is optional accessory! rs = ski & spikes use. UMIDNS-Code: 14-141 running machines / customs tariff no. sports running machines: 9506 9110 / customs tariff no. medical running machines: 4018 1910

* Use dedicated power supply with dedicated fuse for each running machine (treadmill). 230 volts 16 A types may also be operated at 220 or 240 volts 15 A. Special voltages available. We recommend a dedicated line 3 phase 400 volt connection and 3-phase treadmill for high speed, fast acceleration and for heavier subjects due to higher performance.

**E.U., MDO & REGULATORY AFFAIRS INFORMATION:** Devices of the sports category must not be used for medical applications. When linking medical treadmills with other devices (ECG, PC, etc.) then only potential isolated interfaces are allowed. Accessory equipment connected to the analog and digital interfaces must be certified according to the respective IEC standards, e.g. IEC 950 for data processing equipment and IEC 601-1 for medical equipment. Furthermore all configurations shall comply with the valid version of the system standard IEC 601-1-1 and EN 62304. Everybody who connects additional equipment to the signal input port or signal output port or via any other linkage possibility, configures a medical system and is therefore responsible that the system complies with the requirements of the valid version of the system standard IEC 601-1-1. (MOD. 13.6.c., IEC 601-1-6.5.3.c., 19.2.b., 19.2.c.) All equipment within a medical system and with metal housing must be linked with potential equalization cables in star form and then connected to the potential equalization bar of the medical used room.

All norms and standards listed in this brochure refer to validity date/year/month as in was standard at the time/date when this brochure/document was printed. In case there was a transitional period of 2 valid norm editions at that time, then please ask h/p/cosmos or refer to the details as stipulated on the CE declaration of conformity of the product for the precisely validity/issue date of the norm/standard.

**DISCLAIMER:** All system configurations in this brochure are non binding and may not necessarily meet all demands of the user’s and/or patient’s and/or subject’s application and needs. h/p/cosmos is not liable for any mismatch and/or deviation. For a more precisely system configuration recommendation please send precisely demands to h/p/cosmos in writing.

All technical specifications, descriptions, equipment options and images of devices, options and accessories are not binding, and do not represent any guarantee of features and may differ from the product and delivery.

All pictures and configurations shown in this brochure are non binding and may deviate from standard version of the delivered equipment and/or may be available only at extra charge and/or may have been replaced by modified version and/or supply may have been stopped meanwhile.

All h/p/cosmos product names and model names in this brochure are registered trademarks of Franz Harrer and/or h/p/cosmos sports & medical gmbh. All rights reserved.

For software and all other intellectual property rights disclaimers as written in the respective manuals apply. All rights reserved for software, pictures, videos and other media.

**DELIVERY:** The delivery (manufacturing) time for h/p/cosmos running machines up to deck size 190x85cm is 2 to 3 weeks in general. Other models and devices on request. Shipment time 7 to 7 days in Europe and 3 to 5 weeks via sea freight for overseas. Shipment time 2 to 7 days approx. for air freight.

**PRICES:** All prices net, EXW (ex works) h/p/cosmos factory Germany, in EURO. Valid from 01.02.2011 until 31.12.2011 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. Possession of this price list or brochure does not constitute an offer to sell, it is for information only. Property and ownership of goods shall remain with the seller and shall not pass to the buyer until full payment of the price has been received. Full terms of trading available on request. E & OE. Subject to alterations without prior notice.

Copyright 1988 - 2011 h/p/cosmos sports & medical gmbh / Germany

**h/p/cosmos dealer contact:**

**manufacturer:**

h/p/cosmos sports & medical gmbh
Am Sportplatz 8
DE 83365 Nussdorf-Traunstein
Germany

phone: +49 / 86 69 / 86 42 0
fax: +49 / 86 69 / 86 42 49
sales@h-p-cosmos.com
www.h-p-cosmos.com
skype: @h-p-cosmos.com (search & select name)
youtube: hpacosmos
twitter: hpocosmos

h/p/cosmos is certified in line with ISO 9001 and EN 45001. h/p/cosmos is the specialist for high performance systems. All technical specifications, descriptions, equipment options and images of devices, options and accessories are not binding, and do not represent any guarantee of features and may differ from the product and delivery. All pictures and configurations shown in this brochure are non binding and may deviate from standard version of the delivered equipment and/or may be available only at extra charge and/or may have been replaced by modified version and/or supply may have been stopped meanwhile.

All h/p/cosmos product names and model names in this brochure are registered trademarks of Franz Harrer and/or h/p/cosmos sports & medical gmbh. All rights reserved. For software and all other intellectual property rights disclaimers as written in the respective manuals apply. All rights reserved for software, pictures, videos and other media.

**DELIVERY:** The delivery (manufacturing) time for h/p/cosmos running machines up to deck size 190x85cm is 2 to 3 weeks in general. Other models and devices on request. Shipment time 7 to 7 days in Europe and 3 to 5 weeks via sea freight for overseas. Shipment time 2 to 7 days approx. for air freight.

**PRICES:** All prices net, EXW (ex works) h/p/cosmos factory Germany, in EURO. Valid from 01.02.2011 until 31.12.2011 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. Possession of this price list or brochure does not constitute an offer to sell, it is for information only. Property and ownership of goods shall remain with the seller and shall not pass to the buyer until full payment of the price has been received. Full terms of trading available on request. E & OE. Subject to alterations without prior notice.

Copyright 1988 - 2011 h/p/cosmos sports & medical gmbh / Germany
rehabilitation system robowalk expander

- gait training and gait correction for orthopaedic or neurological patients
- gait improvement
- motion support
- mobilization
- supports therapists in manual locomotion therapy
- strength and coordination training
sophisticated rehabilitation-system from start to finish

Patients who come to therapy are often restricted in their mobility. Already entering the treadmill is a hurdle. The h/p/cosmos system for rehabilitation has a low entry height and long handrails that extend to the end of the walking surface. Patients with an impaired ability to walk can mount the treadmill more safely. A professional wheelchair ramp is optionally available as an accessory which allows comfortable access onto the running surface for most types of wheelchairs.

The h/p/cosmos mercury® med treadmill system comes with a running surface of L: 150 cm (59.05") x W: 50 cm (19.68") which meets the standards for many applications. For special demands larger deck size models like the h/p/cosmos quasar® med, the high performance h/p/cosmos pulsar® 3p or the oversize range h/p/cosmos venus® and h/p/cosmos saturn® with a deck size of up to L: 450 cm (177.17") x W: 300 cm (118.11") are available. Custom-made models designed for higher body weights and for special applications are manufactured by h/p/cosmos.

early start of therapy through supporting the patient

The course of therapy should start as early as possible and should be enjoyable for both, the patient and the therapist. Therefore in many cases a support for the patient is necessary. The h/p/cosmos robowalk® expander rehabilitation-system provides this support even in two respects.

supporting the legs by expander

The expander technology helps the patient in his therapy, by reducing the force of forward movement. Furthermore, the therapist facilitates the movement of the limbs of the patients significantly. Due to reduced tiring in both, patients and therapists, extends treatment time and can help increasing a successful therapy.

individual and reproducible settings

The h/p/cosmos robowalk expander is characterized by its particularly simple setting. The strong system can be set individually via raster holes to the skills of the patient or the requirements of the therapist. Due to the variability of the rubber bands, moves can be set from almost any point in front
of and behind of the patient. The rear expanders can even be set above the width of the treadmill, so that a side effect can be made to the position of the legs. Since it is not needed that the therapist works permanently in direct contact with the patient, it allows him to observe the development also from different angles.

Once you have found the perfect setting for a patient you will want to use this at the next visit straight away. With the included scales the settings can easily be made and recorded for further practice and training sessions.

**relief through body weight support**

The patented and individually adjustable h/p/cosmos arm supports allow a easier therapy by this type of weight support and give both, stability and safety.

Supporting the elbows on the firm but cushioned U-shaped arm support and additionally holding the two ergonomic hand grips has tremendous positive impact on the comfort of the patient. It psychologically boosts the motivation to walk with fewer worries of stumbling or fear of failure and pain.

The additional keyboard and additional stop button give both therapist and patient control at all times. Even if the therapist moves the additional keyboard down to the running deck to assist the patient, the patient still has access to the additional stop button in the hand grip and can stop the treadmill without leaving the safety of the arm support.

**safety first**

Indispensable accessory for accident prevention by working with the expander technology is the h/p/cosmos safety arch with fall stop and chest belt. In case of a fall, the patient is secured and the treadmill stops automatically. The chest belt secures the patients and prevents falling over to the front. The chest belt straps do not pinch or restrict the patient. In gait therapy and exercise with children, the safety arch is absolutely indispensable.

The max. body weight for the safety arch is 200 kg / 441 lbs; the length of the harness is individually adjustable.
**Specifications**

**h/p/cosmos robowalk® expander system**

- **Running machine:** h/p/cosmos mercury® med
- **Order number:** cos30000va08
- **Applications:** running for sports, sports medicine, cardiology, rehabilitation, stress tests & medicine, WITH UserTerminal (display & keyboard), MCUS: stand alone or remote control via interface.
- **Running surface:** L: 150 cm (59.05") W: 50 cm (19.68")
- **Access H:** 18 cm (7.09")
- **Shock load reduction for the joints:**
- **- Belt surface with non slip material:**
- **- Max. permissible load:** 200 kg (440 lbs)
- **Speed range:** 0...22.0 km/h (0...6.1 m/s) (0...13.6 mph)
- **Elevation:** 0...25 % (0...14.0°) adjustable electr., resolution 0.1%
- **Acceleration:** 7 levels (3...131 sec. from 0 to max. speed) also for deceleration (for manual or program mode)
- **Speed transmission:** frequency inverter, poly-V-belt
- **Motor system:** 3.3 kW (4.5 HP) 3-phase A.C. motor
- **Power transmission:** very quiet operation
- **Safety systems:** CE0123: guideline 93/42/EEC/07/47/EC, MDD; machinery directive 2006/42/EC; DIN EN 60601-1; DIN EN 60601-1-1; DIN EN 60601-1-2 (EMC approved); DIN EN 60601-1-4; DIN EN 60601-1-6; DIN EN 62304; DIN EN 62333, EN 957-1; DIN EN 957; DIN EN ISO 9001; DIN EN ISO 14971; DIN EN ISO 13485; emergency-off-switch (main off), potential equalisation bolt, transformer for potential-isolation from the mains
- **Safety class / category:** I / IP20 / B
- **Classification:** I lb medical device / SIA (EN 957)
- **Leakage current:** 0.2 mA
- **Ambient condition:** +10...+40 °C (-30...+50°C on request)
- **Humidity:** up to 100 % (% on request)
- **Barometric pressure:** 3,000 m (~10,000 ft) max. altitude without pressurization
- **Data (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 miles/min or mph), time (00:00) in hours, minutes & seconds, elevation (0.1% or degrees) distance (1 meter, 999.0 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)
- **Heart rate monitoring:** POLAR wireless (option extra charge), 1 channel receiver ECG-accurate measurement and display beat-to-beat; 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 115,200 bps
- **Programs:** 42 programs / profiles
- **- 6 exercise profiles (scalable, 131 variations):**
- **- 28 test profiles (UKK 2km walktest, Bruce, graded test, Naughton, Elleslaid, Gardner, etc.):**
- **- 8 free definable programs with 40 progr. steps each**
- **Free PC software:** h/p/cosmos para control® for display & remote control incl. 1 x RS232 interface cable 5 m
- **Software (extra charge):**
  - h/p/cosmos para graphics®, h/p/cosmos para analysis® & h/p/cosmos para motion®. PC software for monitoring, recording & analysis

**Accessories (free of charge):**
- External emergency stop & remote control keyboard
- Magnetic fastening, user manual, service box including special oil, 5m PE-cable

**Colour of frame:** Grey aluminium RAL 9007 (powder coated)

**Handrails:** Steel tube handrails 60 mm diameter on both sides

**Voltage supply:** 230 Volt AC 1=~/N/PE 50/60 Hz 15A fuse, dedicated line

**Size of frame:** L: 210 cm (82.87") B: 82 cm (32.28") H: 136 cm (53.53")

**Net weight:** approx. 200 kg (440 lbs)

**Gross weight:** approx. 300...350 kg (660...770 lbs)

**Optionally available at extra charge:** Special frame colours, other handrail designs, special specifications, special voltage supply, special deck sizes and accessories.

Weight and package specifications can deviate according to options, accessories and packing. E&OE. Subject to alterations without prior notice.

**Warnings:**

- Commissioning and instruction only to be conducted by h/p/cosmos trained and authorized personnel. For special applications, at higher speeds or for subjects with higher risk of falling, or if there is not enough safety space behind the treadmill, a fall prevention system (e.g. safety arch with harness & chest belt) is obligatory.
- Keep min. L: 2 m (78.74") x W: 1 m (39.37") safety space behind treadmills!
- No children on or near to treadmills.

**Specifications**

**h/p/cosmos robowalk® expander**

- **Running machine:** h/p/cosmos mercury® med
- **Order number:** cos30000va08
- **Applications:** running for sports, sports medicine, cardiology, rehabilitation, stress tests & medicine, WITH UserTerminal (display & keyboard), MCUS: stand alone or remote control via interface.
- **Running surface:** L: 150 cm (59.05") W: 50 cm (19.68")
- **Access H:** 18 cm (7.09")
- **Shock load reduction for the joints:**
- **- Belt surface with non slip material:**
- **- Max. permissible load:** 200 kg (440 lbs)
- **Speed range:** 0...22.0 km/h (0...6.1 m/s) (0...13.6 mph)
- **Elevation:** 0...25 % (0...14.0°) adjustable electr., resolution 0.1%
- **Acceleration:** 7 levels (3...131 sec. from 0 to max. speed) also for deceleration (for manual or program mode)
- **Speed transmission:** frequency inverter, poly-V-belt
- **Motor system:** 3.3 kW (4.5 HP) 3-phase A.C. motor
- **Power transmission:** very quiet operation
- **Safety systems:** CE0123: guideline 93/42/EEC/07/47/EC, MDD; machinery directive 2006/42/EC; DIN EN 60601-1; DIN EN 60601-1-1; DIN EN 60601-1-2 (EMC approved); DIN EN 60601-1-4; DIN EN 60601-1-6; DIN EN 62304; DIN EN 62333, EN 957-1; DIN EN 957; DIN EN ISO 9001; DIN EN ISO 14971; DIN EN ISO 13485; emergency-off-switch (main off), potential equalisation bolt, transformer for potential-isolation from the mains
- **Safety class / category:** I / IP20 / B
- **Classification:** I lb medical device / SIA (EN 957)
- **Leakage current:** 0.2 mA
- **Ambient condition:** +10...+40 °C (-30...+50°C on request)
- **Humidity:** up to 100 % (% on request)
- **Barometric pressure:** 3,000 m (~10,000 ft) max. altitude without pressurization
- **Data (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 miles/min or mph), time (00:00) in hours, minutes & seconds, elevation (0.1% or degrees) distance (1 meter, 999.0 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)
- **Heart rate monitoring:** POLAR wireless (option extra charge), 1 channel receiver ECG-accurate measurement and display beat-to-beat; 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 115,200 bps
- **Programs:** 42 programs / profiles
- **- 6 exercise profiles (scalable, 131 variations):**
- **- 28 test profiles (UKK 2km walktest, Bruce, graded test, Naughton, Elleslaid, Gardner, etc.):**
- **- 8 free definable programs with 40 progr. steps each**
- **Free PC software:** h/p/cosmos para control® for display & remote control incl. 1 x RS232 interface cable 5 m
- **Software (extra charge):**
  - h/p/cosmos para graphics®, h/p/cosmos para analysis® & h/p/cosmos para motion®. PC software for monitoring, recording & analysis

**Accessories (free of charge):**
- External emergency stop & remote control keyboard
- Magnetic fastening, user manual, service box including special oil, 5m PE-cable

**Colour of frame:** Grey aluminium RAL 9007 (powder coated)

**Handrails:** Steel tube handrails 60 mm diameter on both sides

**Voltage supply:** 230 Volt AC 1=~/N/PE 50/60 Hz 15A fuse, dedicated line

**Size of frame:** L: 210 cm (82.87") B: 82 cm (32.28") H: 136 cm (53.53")

**Net weight:** approx. 200 kg (440 lbs)

**Gross weight:** approx. 300...350 kg (660...770 lbs)

**Optionally available at extra charge:** Special frame colours, other handrail designs, special specifications, special voltage supply, special deck sizes and accessories.

Weight and package specifications can deviate according to options, accessories and packing. E&OE. Subject to alterations without prior notice.

**Warnings:**

- Commissioning and instruction only to be conducted by h/p/cosmos trained and authorized personnel. For special applications, at higher speeds or for subjects with higher risk of falling, or if there is not enough safety space behind the treadmill, a fall prevention system (e.g. safety arch with harness & chest belt) is obligatory.
- Keep min. L: 2 m (78.74") x W: 1 m (39.37") safety space behind treadmills!
- No children on or near to treadmills.