

**tender specifications for application:
LOCOMOTION THERAPY**

quantity:					
pos.	technical specification	min. MOH requirements	comply YES/NO	bidders offer	remarks
1.	Manufacturer	a) Please specify manufacturer	YES	h/p/cosmos sports & medical gmbh	
		b) country of origin	YES	Made in Germany	
2.	Model no. treadmill	Please specify model no.	YES	h/p/cosmos locomotion 150/50DE med	
	Model no. unweighting system	Please specify model no.	YES	h/p/cosmos airwalk 135 se	
3.	Safety standard	a) FDA marking or medical CE	YES	a) medical CE 0123 (acc. to MDD)	
		b) IEC 601-1 (EN 60601-1)	YES	b) IEC 601-1 (EN 60601-1)	
		c) EMC approval	YES	c) EMC approval	
		d) leakage current < 0.5 mA	YES	d) leakage current 0.4 mA	
		e) transformer for potential isolation	YES	e) transformer for potential isolation	
		f) potential equalization pin	YES	f) potential equalization pin.	
4.	Safety features	a) Emergency – Stop/Off button (disconnecting power supply)	YES	a) Emergency – Stop/Off button (disconnecting power supply)	
		b) adjustable handrails in height and width on left & right side, covering 100% of the running deck length (from front)	YES	b) adjustable handrails in height and width on left & right side (gas-spring support), covering 100% of the running deck length (from front) with 2 telescope bar extensions at rear side	
		c) anti-slip footboard (step-tread) left & right side	YES	c) anti-slip footboard (step-tread) left & right side	
		d) addition emergency stopp button for physiotherapist to be placed via magnet at various positions	YES	d) additional magnetic emergency stopp button for the physiotherapist to be placed via magnet at various positions	
5.	Application features treadmill	a) interface for printer (for simple documentation)	YES	a) interface for printer (for simple documentation)	
		b) interface for computer / PC (for advanced documentation and for remote control, incl. coscom-standard interface)	YES	b) interface for computer / PC (for advanced documentation and for remote control, incl. coscom-standard interface)	
		c) min. 2 acceleration levels (slow and fast increase or decrease of speed)	YES	c) 7 acceleration levels (slow, medium & fast increase or decrease of speed)	
		d) addition keyboard for physiotherapist	YES	d) additional keyboard with 6 keys STOP, START (Enter), UP, DOWN, + and – for remote control of the treadmill	
		e) 2 adjustable therapist seats with foot rests on left and right side	YES	e) 2 adjustable therapist seats with foot rests on left and right side	
		f) wheelchair ramp	YES	f) wheelchair ramp for easy access	

6.	Application features unweighting system	a) static and dynamic body weight support	YES	a) patient-lift for static and dynamic body weight support	
		b) max. user weight load 120 kg (265 lbs)	YES	b) max. user weight load 135 kg (297 lbs)	
		c) max. user height 200 cm (78.7")	YES	c) max. user height 200 cm (78.7"); with higher traverse up to 220 cm (86.61")	
		d) electronic weight display; accuracy ± 4 kg or better	YES	d) electronic weight display with an accuracy of approx. ± 2 kg.	
		e) static weight support min. 120 kg (265lbs)	YES	static body weight support approx. 1...135 kg (2.2...297 lbs) continuously adjustable lifting/lowering of the patient (e.g. wheelchair transfer)	
		f) dynamic weight support min. 60 kg (133lbs)	YES	dynamic body weight support approx. 1...75 kg (2.2...165 lbs) continuously adjustable	
		g) speed of lifter min. 30 mm/s	YES	speed of patient lifter approx 30 – 50 mm/s	
		h) electric remote control	YES	h) electrical remote control with magnetic attachment (cable length approx. 250 cm) with 4 buttons for: - patient lift (up/down or raising/lowering of the patient, setting of the dynamic work range) - unweighting (increase/decrease of the unweighting)	

7.	CONTROLLER (UserTerminal / cockpit)	a) adjustable cockpit	YES	a) adjustable user terminal	
		b) Speed display resolution 0.1 km/h	YES	b) Speed LCD display resolution 0.1 km/h	
		c) Elevation display resolution 0.1 %	YES	c) Elevation LCD display resolution 0.1 %	
		d) Distance display resolution 1 meter	YES	d) Distance LCD display resolution 1 meter	
		e) Time display resolution 1 second	YES	e) Time LCD display resolution 1 second	
		f) MET display resolution 1 MET	YES	f) MET LCD display resolution 1 MET	
		g) Energy consumption display resolution 1 KCal or 1 Kjoule	YES	g) Energy consumption LCD display resolution 1 KCal or 1 Kjoule	
		h) Wattage display resolution 1 Watt	YES	h) Wattage LCD display resolution 1 Watt	
		i) min. 4 user definable profiles (freely programmable)	YES	i) 8 user definable profiles (freely programmable)	
		j) min. 4 training profiles (already programmed)	YES	j) 6 training profiles / 131 variations (already programmed)	
		k) min. 4 stress-test profiles	YES	k) 28 test profiles: BRUCE, Naughton, Ellestad A+B, Balke, Cooper, Conconi, Ramp	
		l) Display of maintenance interval	YES	l) Display of maintenance interval	
		m) Display of error-codes	YES	m) Display of error-codes based on integrated self-diagnosis	
8.	Data resolutions unweighting system	a) Weight display	YES	a) 1 LCD digital display for weight in kg	
		b) Working range display		b) 1 mechanical display for position in working range	
		c) Present unweighting display	YES	c) 1 mechanical display for position in preset unweighting	
9.	Speed range treadmill	0 ... 8 km/h starting from 0 and very smooth	YES	0 ... 10 km/h starting from 0 and very smooth	
10.	Elevation (inclination) range	-10 % to +10 % Obligatory Safety Feature: Motor-System needs to prevent from belt surge (uncontrolled belt speed- up) when walking at high elevation.	YES	-15 % to +15 % through reverse belt rotation Obligatory Safety Feature: Motor-System needs to prevent from belt surge (uncontrolled belt speed-up) when walking at high elevation.	
11.	Tread (running- surface / deck)	a) Running-deck size L: 150 x B: 50cm	YES	a) Running-deck size L: 150 x B: 50cm	
		b) access height to deck < 25cm (for low steps)	YES	b) access height to deck 23cm (for low steps)	
		c) low maintenance and 2 years warranty on running-belt and deck	YES	c) low maintenance and 3 years warranty on running-belt and deck	
		d) allowed weight load on deck: 180 kg or more	YES	d) allowed weight load on deck: 200 kg	
		e) shock-absorbing system (not too soft for natural running)	YES	e) shock-absorbing system (optimized for natural running)	

12.	Physical dimension of unweighting system	a) overall length (please specify)	YES	length: 225cm	
		b) overall width (please specify)	YES	width: 207 cm	
		c) overall height (please specify)	YES	height: 267 cm	
		c) total weight (please specify)	YES	weight: 390 kg	
13.	Drive motor treadmill	a) min. 2.2 kW (3.0 hp) drive motor	YES	a) 3.3 kW (4.5 hp) drive motor	
		b) brushless and maintenance free drive motor with shielded cables for low EMC radiation treadmill	YES	b) brushless and maintenance free drive motor with shielded cables for low EMC radiation treadmill	
		c) min. 2 years warranty on motor	YES	c) 10 years warranty on drive motor	
14.	Construction material	Must be heavy duty (specify material)	YES	Heavy duty steel tube frame	
15.	Warranty	2 years warranty on ALL parts, excepted rope of unweighting system	YES	3 years warranty on ALL parts, excepted rope of unweighting system	
16.	Physical dimension running machine	a) overall length (please specify)	YES	length: 210 cm	
		b) overall width (please specify)	YES	width: 93 cm	
		c) total weight (please specify)	YES	weight: 376 kg	
17.	Line voltage	220 ... 240 Volts / 50/60 (Hz)	YES	220 ... 240 Volts / 50/60 (Hz)	
18.	Documentation	Treadmill must connect to printer without using PC software for fast documentation of therapy exercise	YES	Printer satellite with direct connection to treadmill and print out of exercise parameter	
19.	Others	Please specify other technical specifications and possible accessories.	YES	a) free PC-software: "h/p/cosmos para control" for remote control and for display of all functions and treadmill data on an external PC	
				b) optional PC software graphical visualization and for data analyzing	
				c) compatible with almost all ECG and Ergospirometry Stress-Test systems worldwide	
				e) very simple operation	
				f) large keys on the keyboard	