

## TECHNICAL SPECIFICATIONS – STAIRCLIMBER MOD. T09 ROBY

*Mobile transport system for wheelchair users*

- In conformity with EU Directive 2014/30 “Elettromagnetic Compatibility”

- In conformity with EU Directive 93/42 “Medical Devices” (Category I) as modified by the Directive 2007/47

**COLOUR** Light Blue RAL 5015

**WEIGHT** 47 kg (37 kg mobile unit, 10 kg steering bar)

**POWER SUPPLY** 24 V, by means of 2 V-12 Ah batteries in series. 24 V-3 Ah builtin electronic battery charger, realized with ‘switching’ technology directly powered by 230V.

Battery charge control is achieved using a microprocessor, enabling the programming of the equipment with the corresponding battery model employed.

Socket for the power flex of battery charger on the body of the machine with relay for deactivation when the equipment is connected. The charge status of the battery is signalled by a GREEN LED on the steering bar. When the LED is not blinking, the battery status ranges from 20% to 100%. When the LED is blinking, this indicates that the battery status has decreased to 20% and the batteries will be in need of recharge. During recharge phase, battery status is visualized by means of 4 LEDs, placed on the rear part of the machine body and arranged as follows (from left to right): GREEN-RED-YELLOW-GREEN. The green LED (on the left hand) indicates the connection to the domestic power supply, the red LED signals that batteries are recharging, when the yellow LED lights up, (charge 80%) the equipment can already be used. When the green LED (on the right hand) lights up, the charge is 100% and the battery charger automatically switches to stand-by mode. For a proper use of the machine, it is advisable to wait for all the four LEDs to light up.

**MOTORIZATION** Irreversible reduction gearbox, self-braking, with axial transmission driven by ‘brushless’ 24V-500w electronically controlled engine. Electronics enables the reduction of 80% of inrush currents with a linear consumption of the power supplied by the batteries, increasing equipment autonomy and battery duration. “Soft start” device system and progressive speed from the first step of the ramp. The electronics also enables the speed adjustment, which remains constant at any working condition.

The power supply to the electronic card of the motor is only possible when the start push-buttons are operated, which are controlled by simultaneous enabling of the key and disabling of the Emergency Stop.

**FULL LOAD SPEED** 5 m/min upwards; 5 m/min downwards (same speed when unloaded).

**FULL LOAD** 23 actual floors of which 22 until the blinking on the GREEN LED

**AUTONOMY** on the steering wheel alerting the need for batteries recharge, and 1 floor until the shutdown of the equipment.



**WHEEL BELTS** No-marking, high friction factor rubber, ensuring adherence without leaving any mark on the line of travel.

**GRADIENT** 35° max; the gradient indicator is on the steering bar.

**LOAD** 130 kg – 150Kg available as optional

**MINIMUM DEPTH OF LANDING** 970 mm with wheelchair with footrest and passenger on board for standard and A.R.P. version; 1100 mm for P.P.P. version.

**MINIMUM STAIR WIDTH** 720 mm

**CONTROLS** Up/down controls on the steering bar; button on control unit, to load the wheel belt part of a vehicle.

**HANDLING** The stairclimber can be dismantled in 2 parts with a single move without effort; the chassis is provided with 2 handles; it can be carried in a car trunk.

**WARNING** Once the unit is delivered, the attendant has to be instructed by a VIMEC technician.

**USE** Designed to operate with different types of wheelchairs by means of fastenings adjustable in height and width.

**STANDARD VERSION** It is adjustable to folding wheelchairs equipped with knobs (ISO cod. 12.21.06.039 and 12.24.21.115 “Panda” Type) or, thanks to standard adjusting fittings, with stuffed back seat wheelchairs and handle (ISO code 12.21.06.003) or strengthening back - frame of seat (ultra – light wheelchairs – ISO code 12.21.06.060) but all with back wheels of large diameter (Ø50-60).

**A.R.P. VERSION** Steering bar designed for wheelchairs with small back wheels (Small Wheels (12/30 cm) or, special seat wheelchairs with adjustable back seat Housing) (ISO code 12.21.06.045, 12.21.03.006, 12.21.09.006 and 18.09.18.012).

**P.P.P. VERSION** Platform suitable for all the other wheelchairs and baby – carrier, (Multifunction for electronic wheelchairs, if the total weight of the passenger and Platform) of the wheelchair doesn't exceed the homologated load capacity.

The climb and the descent on the ramps are made by pushing the specially provided buttons: constant pressure and delayed of 2 seconds to avoid unintentional pressure. Movements on the landing are easier thanks to 4 auxiliary wheels (vertical pressure on the steering bar), each of them equipped with ball bearing.

**SAFETY** Irreversible reduction gearbox; electronic check of the speed; delayed controls to avoid unintentional operations; steering-bar fitted with mechanical clamping system on both sides and checked by safety - switch; motion consent only when the mechanical (and electrical) clamping is properly fitted; safety belt and adjustable headrest. Safety fastening on wheelchairs, preventing accidental opening. Emergency STOP. Manual emergency operation consisting in a tool to be



inserted on the square pin directly connected to the reduction gearbox and installed on the front part of the driving unit, in order to manually raise and/or lower the machine in case of shutdown.

Please refer to the Equipment Requirement Data Sheet for further details about the equipment.

**N.B.: Data are guideline and not binding.**

**The manufacturer reserves the right to make any changes it considers appropriate.**

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