

ML6100D

Self-Propelled Medical/PRM Lift

Technical Specification



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Note: All images in this document are included for reference purposes only.

Introduction

The highly acclaimed Mallaghan self-propelled PRM Medical Lift has been specifically designed for the safe and comfortable transport of PRM passengers to and from the aircraft.

The Mallaghan Medical Lift ensures to provide a prompt and dignified service in the most comfortable manner possible.



Chassis and Technical Data

Make & Model:	Mallaghan ML6100D, self-propelled
Engine:	*EU/UK: Deutz TD 2.9L4 Tier 5 (water cooled)
ROW:	Deutz TD 2.9L4 Tier 3A (water cooled)
Transmission:	Automatic hydrostatic drive including park brake
Steering:	Hydraulic powered steering
Payload:	1000kg
Front Sill Height:	From 1090mm to 6000mm

* Note: Engine model is depending on emissions regulations at destination country

- Conformity with all relevant IATA regulations
- Heavy duty front disc braked axle
- Front and rear leaf spring suspension
- Robust double scissor leg system with maintenance props
- Front and rear towing points
- Pneumatic tyres
- Enclosed single operator cab

Standard Features



Hydraulics

- Hydraulic oil tank with sight level gauge, shut off valve and magnetic drain plug
- Hydraulic high-pressure filter, return line filter and suction strainers
- Steel reinforced hydraulic hosing
- Stabilisers (x4) with dual pilot operated check valves
- Platform extend ram (600mm)
- Single acting lift rams (x2) with load holding check valves
- Control valves with manual overrides for emergency procedure
- Emergency hand pump

Van Body

- Van body exterior approx. 4900mm long x 2000mm wide x 2300mm high
- Van body walls and roof insulated with 50mm GRP panels
- Van body floor (25mm) with vinyl covering, UPVC skirting and GRP underside
- Double hinged doors front (with windows)
- Double hinged doors rear (without windows)
- Proximity sensors and electric door lock for rear door
- Tinted windows driver side (x3) & passenger side (x3)
- Break glass hammer
- Handrails both sides
- Wheelchair floor tracking (x4)
- Tail-lift (500kg SWL) with full surround safety gates
- LED interior lights (x6)
- LED exterior work lights, x1 front & x1 rear
- Flashing amber beacon on van body roof
- Side marker reflectors (x3 amber each side)
- Front (x2 white) and rear (x2 red) roof marker lights

Platform

- Full width platform (1800mm wide) with hydraulic extension and swivel nosepiece
- Extendable sliding handrail each side
- Non-marking rubber bumpers fitted to all leading edges for aircraft protection
- Side entry gate with spring loaded hinges and access ladder with non-slip treads
- Fixed canopy



Electrics

- 24V DC relay system
- Digital engine display including hour meter
- Battery isolator
- DC emergency pump
- Reversing buzzer
- Warning buzzer (for cabin down & jacks up/down)
- External E-stops x3 (1 no each on bonnet, rear engine canopy & access ladder RHS)
- Driver's dash and van body control panels with E-stops
- Dead-man (master) controls for all moving functions
- Remote engine stop & start functions from van body
- Intercom system



Safety Interlocks (Samples)

- Cannot start engine unless in neutral gear
- Cannot drive until stabilisers are fully retracted
- Cannot drive until tail-lift is stowed
- Cannot drive until front platform is retracted
- Drive interlock override key-switch (inside electric panel)
- Cannot raise stabilisers until van body is lowered
- Cannot raise van body until stabilisers are fully extended
- Cannot raise/lower van body until platform side entry gate is closed
- Cannot raise/lower van body until rear doors are closed
- Cannot raise/lower van body until front platform is retracted
- Cannot raise van body until tail-lift is stowed

Manuals, Painting and Decals

- Operating and maintenance manual in chosen language as soft copy and hard copy
- Electric, pneumatic & hydraulic schematics provided
- Label kit in chosen language
- Machine colour in plain white to match chassis
- All fabricated parts are shot blasted and treated against rust with two coats each of long-life primer and topcoat PU paint

Options and Accessories

Chassis and General Assembly (Samples)

- AHM 913 Controlled Approach System (CAS)
- Engine cold start kit
- Spare wheel (without mounting)
Fire extinguisher supplied and mounted in prominent position
- Rubber wheel chocks with or without storage holder
- Air conditioning for driver's cab
- Heater for driver's cab
- Roof and/or rear window wipers
- Various camera systems and recording options including 360° camera system
- Distance sensor systems with audible alarm in drivers' cab
- Battery charger



Van Body & Platform (Samples)

- Platform in accordance with EN 12312-2 2014
- White platform rubber bumper
- Platform extend inhibit sensor
- Thermoking S40 Air Conditioning
- Eberspaecher heater
- Various Door options
- Medicine/blanket cabinet & First aid kit
- Emergency lighting with independent battery
- Roof mounted handrail (with or without bus handles)
- Sliding front and rear doors
- Aluminium chequered plate floor
- Transfer bridge
- Unwin wheelchair clamps

