

# Continental Stair

## Motorised Passenger Stair

### Technical Specification



The Mallaghan Continental self-propelled passenger stair offers its users economical and efficient performance as well as reliability for passengers at the aircraft. It is a highly sophisticated piece of equipment, engineered to the utmost quality and safety standards.

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



### Chassis and Technical Data

<b>Chassis:</b>	Self-propelled Mallaghan manufactured welded chassis
<b>Engine:</b>	*EU/UK: Deutz TD 2.9L4 Tier 5 (water cooled) ROW: Deutz TD 2.9L4 Tier 3A (water cooled)
<b>Transmission:</b>	Automatic hydrostatic drive including park brake
<b>Maximum travel speed:</b>	Up to 25 km/h
<b>Maximum wind speed:</b>	75 km/h - 40 knots
<b>Payload:</b>	Maximum 40 passengers
<b>Loading capacity:</b>	Stair section = 488kg/m <sup>2</sup> Platform = 317 kg/m <sup>2</sup>
<b>Front Sill Height:</b>	From approx. 2200mm to 5800mm

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

### Driver Cab and Controls

- Rear view wing mirrors both sides
- Adjustable driver seat with lap belt
- Aluminium chequered plate floor surface
- Control station on dash
- Digital display showing the most important engine data:
  - ✓ RPM
  - ✓ hour meter
  - ✓ battery voltage
  - ✓ engine coolant temperature
  - ✓ engine oil pressure
  - ✓ engine alarm messages
- Keyless ignition
- Analogue fuel level gauge



### Staircase

- Automatic mechanical stair locking system (PAWL-locks)
- Upper and lower stairway external skinning
- Handrails with black PVC coating
- Aluminium chequered plate steps and mid-landing section surface
- Height marker for various aircraft door sill heights



### Platform

- Platform width approx. 2250mm
- Self-aligning, spring loaded front platform nosepiece.
- Extendable sliding handrails each side with foot pedal locks
- Non-marking rubber bumpers fitted to all leading edges for aircraft protection.
- Aluminium chequered plate floor surface
- Control panel for fine adjustment





## Hydraulic System

- Hydrostatic forward and reverse drive with creep speed function
- Rear wheel motors including park brake
- Power assisted steering
- Hydraulic oil tank with sight level gauge, shut off valve and magnetic drain valve
- Control valves with manual overrides for emergency procedure
- Oil cooler
- High pressure filter and suction strainers
- Steel reinforced hydraulic hosing
- Stabilisers (x4) with dual pilot operated check valves
- Stair tilt cylinder (x2) with dual pilot operated check valves
- Stair extend cylinder (x1) with flow control valve
- Emergency hand pump

## Safety Interlocks

- Engine start is disabled until "Neutral" is selected
- Cannot drive stair until stabilisers are fully retracted
- Speed restriction (creep speed) when stair is raised
- Option associated interlocks

### **Electric System**

- 24V DC relay system
- Battery isolator
- Reversing buzzer
- Stabiliser up/down warning buzzer
- Emergency stops on dash and platform control panel
- Deadman (master) controls for all moving functions
- LED stair and platform lights (total of x14 each side)
- LED work light (x1) under platform
- Flashing amber beacon

### **Manuals, Painting and Decals**

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



## Options and Accessories

### Chassis and General Assembly

- 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
- DC emergency pump
- Battery charger
- Jumpstart socket (NATO or Anderson)
- Hydraulic tank heating element
- Heated fuel filter
- Front and/or rear view camera system with monitor in drivers cab
- Reversing distance sensor system with audible alarm in drivers cab
- Supply and fitting of customer logos
- Documentation in chosen language

### Drivers Cab

- Fully enclosed cab with windows front, rear, roof and windscreen wiper
- Enclosed driver cab without doors
- Drive assembly for right hand drive
- Single passenger seat or passenger bench seat
- Roof and/or rear window wipers
- Air conditioning
- Heating, including window demisters
- Heated rear view wing mirrors

### Staircase and Platform

- Safety gates system according to EN standard
- Fully covered canopy with wide platform, top house, and extendable bellows
- Sun canopy
- Fully covered rear bellow system
- Upper and lower staircase internal skinning
- 'Alusingen' or 'Graepel' profile step and platform surface
- Aluminium, stainless steel or wooden handrails
- 3000mm wide platform
- Powered swivel nose
- Safety shoe system for 3000mm wide platform
- Automatic platform height levelling system
- White platform rubber bumper
- Hydraulic front platform extension (400mm)
- Platform extend inhibit sensor
- Stair light motion sensor and timer
- 'Tensa' barrier with or without drive

