

# Tristair LR / MR / HR

## Fully Covered Towable Stairs

### Technical Specification



The Mallaghan fully covered towable passenger stairs are units capable of providing passenger access to a wide range of aircraft.

These stair units are mounted on a towable Mallaghan steel chassis which includes parking brake, a weather canopy and extendable bellow system. Height adjustment is achieved by means of hydraulic ram.

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



### **Chassis and Technical Data**

**Chassis:** Mallaghan flat chassis

**Engine:** HATZ 1B30

**Rear wheel motor:** hydraulic, for forward and reverse movement

**Max. speed:** up to 6 km/h

**Max. towing speed:** up to 25 km/h

**Max. wind speed:** 75 km/h - 40 knots

**Payload:** max. 40 passengers

**Sill height range:** Tristair LR: 1800mm – 3950mm  
Tristair MR: 2400mm – 4400mm

### Staircase with fully covered canopy

- Fully galvanised upper and lower stair parallelogram
- Aluminium chequered plate steps surface
- Aluminium external skinning side panels (painted)
- LED stairway illumination (non-glare quality)
- Handrails with black PVC coating
- Chain link barrier at bottom of steps
- UV protected, durable and high impact strength polycarbonate canopy

### Platform incl. top house and extendable bellow system

- Platform width approx. 3000mm
- Self-aligning, spring-loaded front platform swivel nosepiece
- Non-marking rubber bumpers fitted to all leading edges for aircraft protection
- Aluminium chequered plate floor surface
- Top house and extendable bellow system



Tristair MR fully covered with interlocked platform safety gates according to EN standard & AHM 913 Controlled Approach System (CAS)

### Hydraulic System

- Hydraulic rear wheel motor (x1) for forward and reverse movement
- Hydraulic oil tank with sight level gauge, shut off valve and magnetic drain plug
- Lever operated, spring centred control valves for stabiliser and lift cylinder
- Stair lift cylinder (x2) with load holding check valves and flow control valve
- Return line hydraulic filter and suction strainers
- Steel reinforced hydraulic hosing
- Emergency hand pump
- Stabilisers (x4)





### **Electric System & Safety Interlocks**

- 12V DC heavy duty battery and relay system
- Battery isolator
- Emergency stops on chassis, platform and tow bar controls and adjacent to engine
- Engine hour meter
- Engine start is disabled with low fuel level
- Cannot crank engine for more than 4 seconds
- Option associated interlocks

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

- Operating and maintenance manual in chosen language as soft copy and hard cop
- Electric and hydraulic schematics provided
- Label kit in chosen language
- Aluminium side panels painted in plain white colour
- All non-galvanised steel parts are shot blasted and treated against rust with two coats each of long-life primer and topcoat paint



### Staircase and Platform

- Interlocked platform safety gate system according to EN standard
- Stair light sensor (top and/ or bottom step) including timer for LED stair lights
- 'Tensa' barrier (top and/or bottom step) with or without interlock system
- 'Alusingen' or 'Graepel' profile step and platform surface
- Aluminium or stainless steel handrails
- Staircase internal skinning
- Safety shoe system for aircraft door protection

### Options and Accessories

#### Chassis and General Assembly

- Electric motor and battery pack in lieu of diesel engine
- Battery charger supplied loose or chassis mounted with cable reel
- AHM 913 Controlled Approach System (CAS)
- Drive inhibit at close proximity to aircraft (sensor under platform)
- Drive inhibit with stabilisers extended
- Reversing or other warning buzzer
- Beacon on chassis or platform
- Work light under platform
- 2kg fire extinguisher supplied and mounted in prominent position
- Spare wheel (supplied loose or with mounting)
- Supply and fitting of customer logos

