

Tristair LR / MR / HR

Towable Stairs

Technical Specification



The Mallaghan towable passenger stairs can provide passenger access to a wide range of aircraft.

These stair units are mounted on a towable Mallaghan steel chassis which includes parking brake. 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 stepped 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
Tristair HR: 3800mm – 5800mm

Staircase

- Fully galvanised upper and lower stair parallelogram
- Mechanical stair locking system (PAWL-locks)
- Aluminium chequered plate steps surface
- Aluminium external skinning painted side panels
- LED stairway illumination (non-glare quality)
- Handrails with black PVC coating
- Chain link barrier at bottom of steps

Platform

- Platform width approx. 1600mm (LR & MR) and 1800mm (HR)
- Front platform swivel 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



Tristair LR with interlocked platform safety gate system according to EN standard

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.
- Return line hydraulic filter and suction strainers.
- Stair lift cylinder (x1) with flow control valve
- 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 control panel, 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
- Sun canopy

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
- Proportional speed control
- 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

