



DESIGNERS, MANUFACTURERS AND SUPPLIERS OF
AIRCRAFT GROUND SUPPORT EQUIPMENT

Towable Passenger Stairs

'Tristairs' Low Range (LR)
Middle Range (MR)
High Range (HR)



Picture of Tristair HR's at DHL HUB in Leipzig, Germany

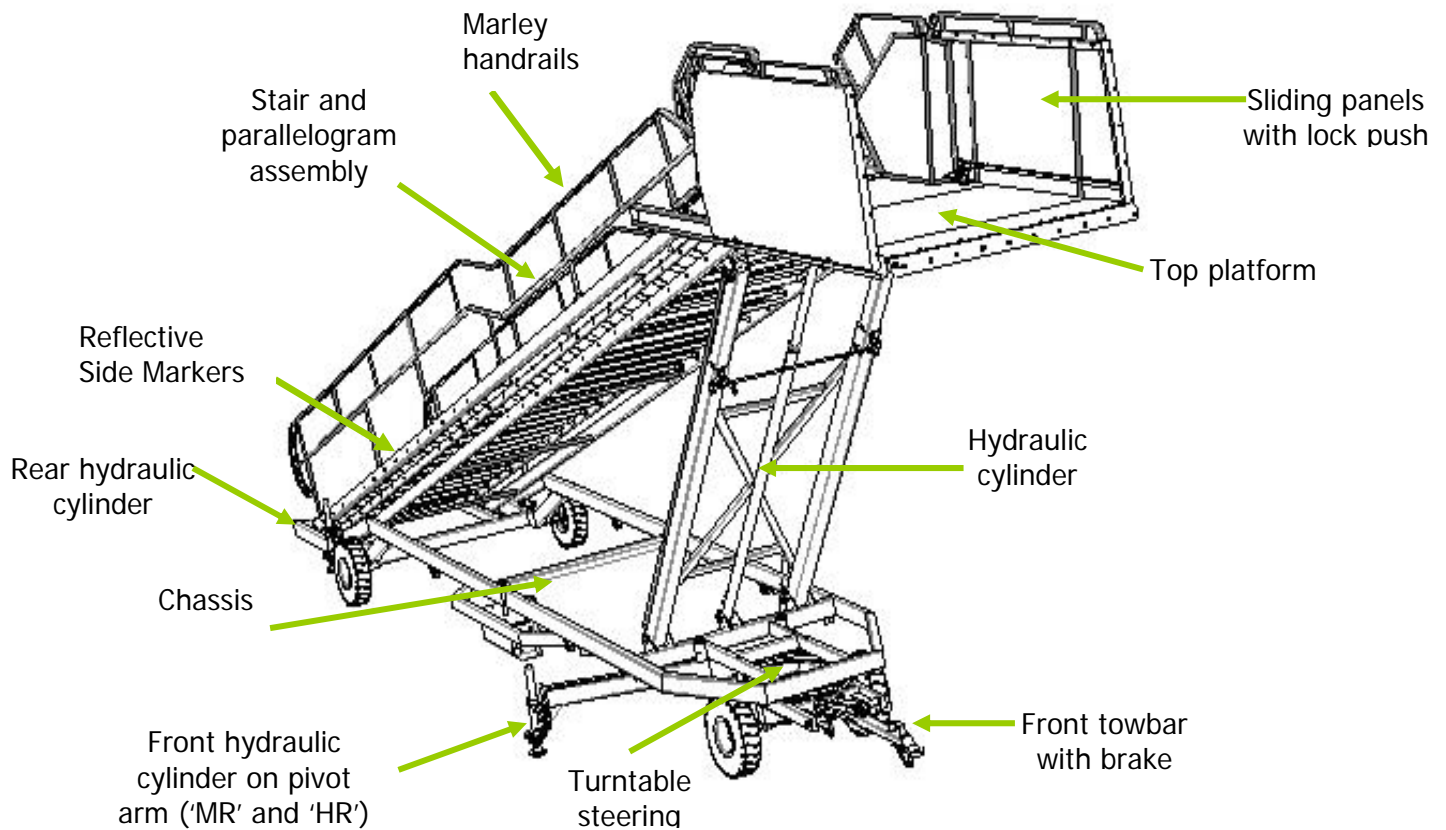
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1. Technical Specification

Specification Data		
Height Ranges		
Tristair LR		From 1800 mm – 3950 mm
Tristair MR		From 2400 mm – 4400 mm
Tristair HR		From 3800 mm – 5800 mm
Aircraft Types	For example	B727-737, B757, A319-A321, MD80
Dimensions		
Length/Width/Height	LR	7554mm/1700mm/2797mm
	MR	9550mm/1700mm/3050mm
	HR	11275mm/1850mm/3350mm
Wheelbase	LR	3710mm
	MR	4450mm
	HR	5820mm
Inside Stair Width	LR	1250mm
	MR	1400mm
	HR	1400mm
Top Platform Width	LR	1615mm
	MR	1605mm
	HR	1933mm
Top Platform Length	LR	1700mm
	MR	2600mm
	HR	2600mm
Platform Handrail Height	LR/MR/HR	1000mm

2. General Specification & Chassis



As Standard

- ✚ Purpose built and manufactured using structural steel sections to ensure long life during rugged airport operations
- ✚ Incorporates Parallelogram stair section, associated hydraulics as well as the above outlined components

As Options

- ✚ Fully enclosed all weather canopy with bellows
- ✚ Alu Suisse 'zingen' steps
- ✚ Stair lights with sensor and timer



Tristair with canopy and bellows

3. Top Platform



Tristairs LR with 3m wide platform (optional)

As Standard

- ✚ Swivel type nose which allows for any misalignment of the stair to the aircraft
- ✚ Rubber Bumper is fitted on the nose piece for aircraft protection
- ✚ Platform surface has high traction covering
- ✚ Sliding handrails on both sides of platform; manually extendable and 1000mm high

As Option

- ✚ 3 meter wide platform

4. Pedestrian Control (Optional)



Wheel Motor

Hydraulic Oil Reservoir

Remote Control

As Standard

- ✚ Pedestrian Control systems can be powered by a
 - 1) Diesel Engine or
 - 2) Battery Pack
- ✚ The system enables the operator to drive the stair in walking speed forwards and backwards via remote control
- ✚ The system also provides hydraulically operated stair raise and lowering facility as well as stabilizers



Diesel Engine, Hydraulic Pump & 12 Volt Battery

Stair lights

Hydraulic functions: Stair raise and lower & Stabilisers



Wheel Motor

5. Stability and Safety of Stairs



- ✚ 4 hydraulically operated stabilizers incorporating Dual Pilot Operated Check Valves
- ✚ The vehicle can be used in its highest position at wind speed of up to 40knots / 74km/h

6. Mallaghan Standard Services

PAINT FINISH

All fabricated items will be shot blasted, and treated against rust with long life primer
All the equipment will receive Two (2) coats of undercoat Paint
The equipment will receive Two (2) coats of finish Paint to the customer's specification as advised.

TESTS

Mallaghan Engineering Limited will carry out full functional tests prior to dispatch.

INSPECTIONS

Pre-delivery tests and inspections can be arranged between the customer and Mallaghan Engineering Limited.

MANUALS

Supplied with the unit will be 2 sets of manuals (Language: Destination country) to include the following;

- 1) Operation 2) Maintenance 3) Electrical Circuits 4) Hydraulic Circuits 5) Chassis Manual

SPARE PARTS

Mallaghan guarantee to supply spare parts for a minimum period of 15 year.

Owen McKenna

Owen Mc Kenna
Export Manager
Mallaghan