

# TG-2244

## Passanger loading steps

### USE & HANDLING

The self-propelled ladder TG-2244 has been specially designed to carry out the loading/offloading of aircraft passengers; the vehicle's threshold in the loading/offloading doors is a height above ground of between 2.20 m (86.6") and 4.40 m (173.2").

The ladder is a compact self-propelled vehicle comprising a frame with two flights of steps, one fixed and the other mobile, which slides telescopically over the fixed flight propelled by a hydraulic cylinder. In the upper part of the mobile flight there is a platform with tip-up front to adapt it to the aircraft's profile on the loading/offloading door's lower threshold. On each side of the platform there is an ear which is automatically adjusted to fit over the sides of the aircraft's door.

The loading/offloading platform can be situated at a height of between 2.20 m (86.6"), in its lowest position, and 4.40 m (173.2"), in its highest position. The loading/offloading platform and the flight of steps are protected by railings.

The power unit is located in the centre of the chassis and below the fixed flight of steps. It comprises a diesel engine which activates a variable displacement hydraulic pump to power the traction circuit and the accessories circuit.

The ladder is fitted with front and rear self-levelling hydraulic stabilizer jacks.

In the event of faults, the unit is equipped with a manually activated hydraulic pump for unlocking the ladder's cylinders as well as safety devices so that it can be pulled away from the aircraft by hand.

The passenger ladder described in this Manual has been designed in compliance with IATA (AHM920) and SAE (ARP836.A) specifications and meets the requirements of EN 12312-1.



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**ENGINE** Deutz Diesel model D2008L4, air-cooled, 4 cylinders with a diameter/stroke of 76/86 mm, 1.56 litre cylinder capacity, power 27 kW/3000 rpm, maximum torque 92 Nm at 2000 rpm.

**TRANSMISSION** Hydrostatic with LINDE automotive variable displacement pump, model HPV 55-02AV, 55 cc/rev, which powers two POCLAIN MS02 hydraulic 255 cc/rev. wheel travel motors. Mounted in tandem with the hydraulic travel pump is another pump which powers the steering Orbitrol, the stabilizer jacks and the ladder's telescopic system.

**TOTAL DIMENSIONS WITH MOBILE FLIGHT EXTENDED**  
 Length 7.90 m  
 Height 5.40 m  
 Width 3.04 m

**TOTAL DIMENSIONS WITH MOBILE FLIGHT RETRACTED**  
 Length 5.50 m  
 Height 3.25 m

**USEFUL DIMENSIONS OF ACCESS PLATFORM TO THE AIRCRAFT**  
 Length 1.60 m  
 Width 2.85 m

**RAILINGS** Height 1.05 m

**MAX. LOAD ON PASSENGER ACCES PLATFORM** 10 persons (820 kg)

**STEP DIMENSIONS BELT REAR END**

Width of fixed flight	1.20 m
Width of mobile flight	1.40 m
Step run	0.28 m
Step rise	0.19 m
Front train track width	1.90 m
Rear train track width	1.95 m

**OUTSIDE TURNING RADIUS** 7.80 m.

**OPERATING WEIGHT** Without cab 5,060 kg.; With cab 5,200 kg.

**TRAVEL SPEED** 25 kph.

**MAX. TOWING SPEED** 15 kph.

**WIND RESISTANCE** In its retracted position the ladder is stable in winds of 120 kph max.

**WHEELS** Rubber tyres 7.00-12".

**FRONT LIGHTS** Two headlights (passing beam and side lights) and directional lights.

**REAR LIGHTS** Side lights, directional lights, stop and reverse lights.

**BATTERY** 1x70 Ah (12 V).

**FUEL CAPACITY** 40 litres.

**HYDRAULIC OIL** Hyspin AWS 46, 100 litres.

**OPTIONAL SUPPLIES** Open cab, closed cab, heating system, canopy, rotating light.

