



MERO UNIVERSAL TAIL STAND (UTS)

GENERAL

The Universal Tail Stand consisting of two halves serves as access for

- Maintenance
- Stripping
- Painting

of aircraft size A 320 up to A 340 or B 737 up to B 747 on ground or in jacked position inside the hangar. „Nose in“ or „tail in“ positions are possible.

Each half is movable on rails pushed by hands or motor-operated depending on standard required. On each half there are 2 separate platforms which are height-adjustable by electric motors, cables/roller-chains and spindles.

They serve for access to the vertical and horizontal stabilizer with rudder and elevators as well as for APU and the tail-cone. Platforms are equipped with sliding panels on edges towards the aircraft.

TECHNICAL DATA

Dimensions

20 m high, 18 m long and 7.5 m wide, per half

Loads

Admissible load: 600 kg or 6 persons per working level

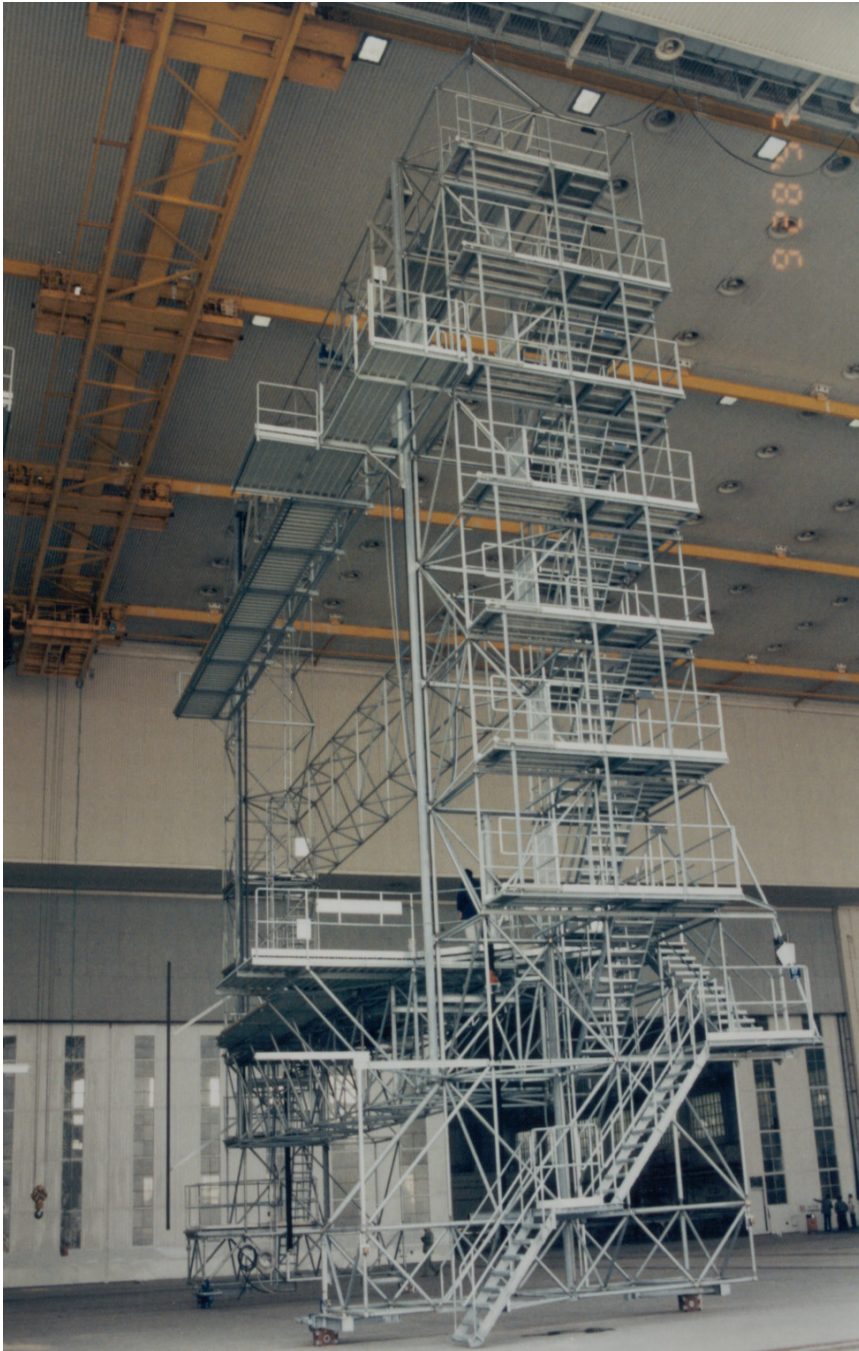
Point load: 150 kg

Supporting structure

The supporting structure as essential part of the tail dock is a space frame construction, thus a three-dimensional framework.

Platform decking

Plywood with antiskid coating



Undercarriage

Each dock half is movable on 4 steel rollers travelling on rails. Operation by electric motors with automatic brakes. Travelling speed 6.0 m/min

Railings

All platform levels are equipped with railings, 1.1 m high, with hand- and mid-railing and kick boards, 150 mm high.

Stairs

As access to the platforms stairs 600 mm wide are provided.

Electric installation

Power supply by means of cable reel or cable loops. Each level of working platform is provided with 3 sockets for single phase power 220 V, 50 Hz with safety contact for wet room installation (IP65).

Control

Control of driving gears as well as controlling of platform lifting from a pendant station at the level below horizontal stabilizer. Controlling of the upper platform lifting from a switch board at the level above the vertical stabilizer. All bush buttons are of dead man's type. There is a main switch with key-locking on the floor level. A central switch cabinet is installed on each dock half. There are limit switches and sensors to protect workers from injury and aircraft from damage.

Platform below horizontal stabilizer size 5.0 x 13 m

is height-adjustable from 3.75 m to 7.0 m. Height-adjustment by means of 2 spindle lifting elements each. Operation by means of electric motor. Lifting speed 0.7 m/min.

In order to adapt the working levels to the contours of the aircraft 5 sliding platforms on the platform edge toward the aircraft are provided equipped with stripper- and skydrol resistant bumpers.

Platform for vertical stabilizer, size 1.7 x 16 m

Height-adjustment of platform from 4.75 m to 18.0 m by means of chains and sprockets. Operation by means of electric motor.

Aside the cables/roller-chains and spindles the platforms are equipped with guide rollers for stabilization to support eccentric loads.

The forward platform edge on each level is equipped with sliding platforms in order to adapt the working levels to the contours of the aircraft equipped with stripper- and skydrol resistant bumpers.