40 YEARS

Quality. Experience.
Innovation.

ALTEC®
Aluminium-Technik GmbH

Aircraft maintenance and final assembly docking systems

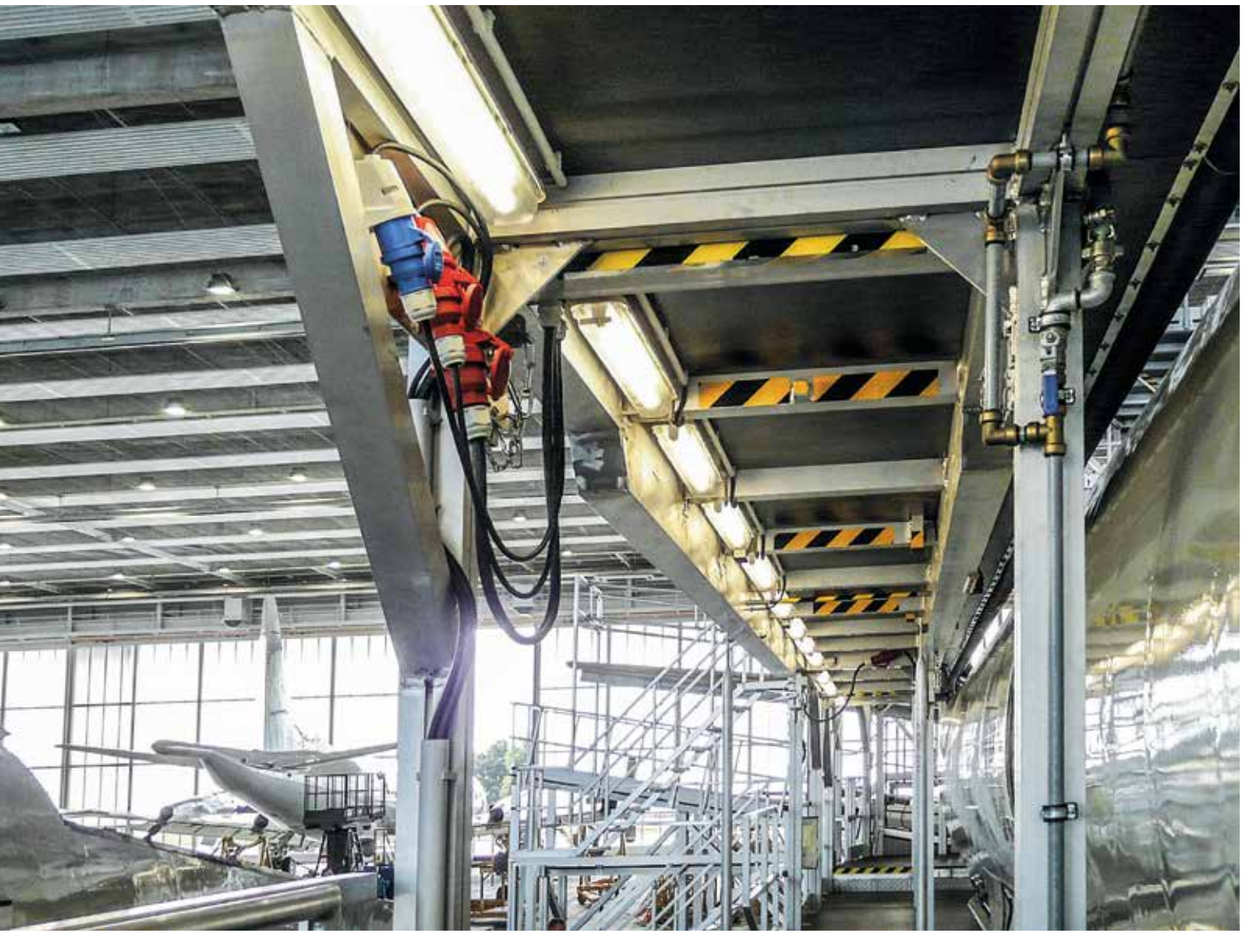
MADE IN GERMANY

Smart platforms for safe and efficient aircraft maintenance

ALTEC delivers engineered access and structure solutions for aviation MRO and final assembly. For over 40 years, we've designed and built aircraft-specific platforms, docks, stairs and engine stands – covering nose, fuselage, wing, tail and nacelle workscopes – for narrow-, wide- and regional fleets.

We select the right material mix – aluminium, steel or hybrid – to balance weight, load capacity and lifecycle cost. One accountable partner handles design, engineering, production, delivery and on-site installation.

Our systems integrate fall protection, non-slip surfaces and guardrails, meet relevant standards, and offer height adjustment, modular extensions and low service overhead. Result: safer crews, faster turnarounds and durable assets that reduce downtime.



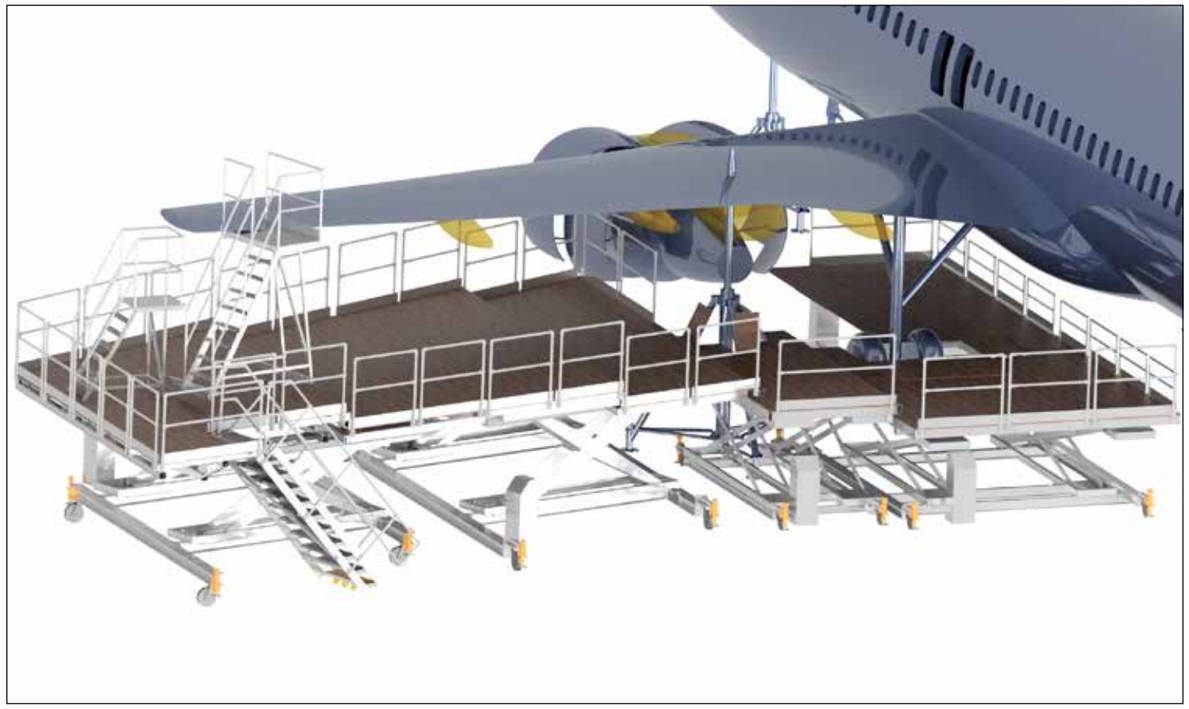
CONTENT

Docking Systems - our core expertise

ALTEC work platforms and docking systems are developed in close partnership with our customers to ensure safe, ergonomic access to every critical service and maintenance area.

Our engineering team applies advanced 3D CAD and simulation to model aircraft interfaces, validate clearances and fit-up before production release, and optimize weight, stability and workflow. From concept and fabrication to on-site assembly, we provide a single, accountable contact.

Commissioning is performed by our specialists at your facility, with detailed technical consultation and operator guidance. This integrated approach reduces rework and downtime while delivering dimensionally precise, user-friendly solutions tailored to your fleet and maintenance environment.



Ground support equipment made by

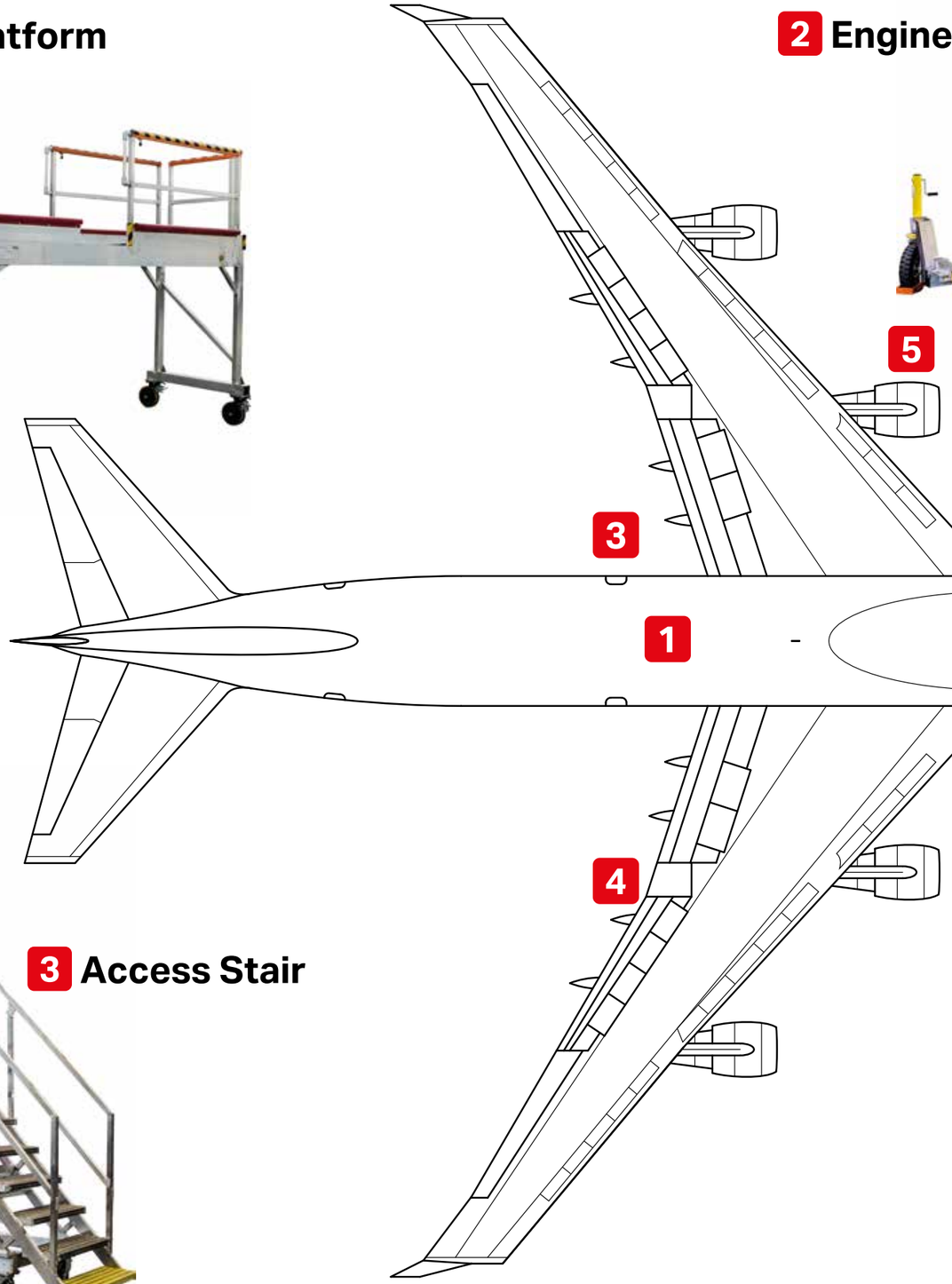
ALTEC maintenance stairs are mobile solutions for virtually all aircraft tasks—from accessing passenger and cargo doors to servicing the fuselage and working on or beneath the wings.

The lightweight construction and smooth-running castors enable easy repositioning with minimal effort. Optional height adjustment adapts to varying door-sill and wing heights, adding flexibility across fleets. On request, we supply contour-matched platforms and customized guardrails so the stairs interface precisely with any aircraft or helicopter.

Design, manufacture and **CE conformity** follow the **Machinery Directive 2006/42/EC**. Our products are engineered and validated against the relevant aviation ground-support standards, including **EN 1915** and **EN 12312-8**, and aligned with **IATA AHM/IGOM** process guidance to ensure safety, stability and ergonomic working conditions – while keeping service requirements low.

Ground support equipment -
Standard version

1 Landing Gear Platform



2 Engine Stair

5 Cowling Stair

3 Access Stair

4 Fueling Stair

Ground support equipment -
Standard version

Height adjustable maintenance and access stairs

- The stable and lightweight construction achieved through welded and corrosion-resistant aluminium rectangular profiles
- Easy manoeuvring with 4 wheels
- Permissible step load: 150 kg
- Platform load: 200 kg / m²

- Maintenance stair with height adjustment
- Height adjustment: rack and pinion drive, pneumatic, hydraulic or electric
- Stair including hand and mid rails
- Platform including three-sided railings consisting of hand-rails, mid rails and toe boards

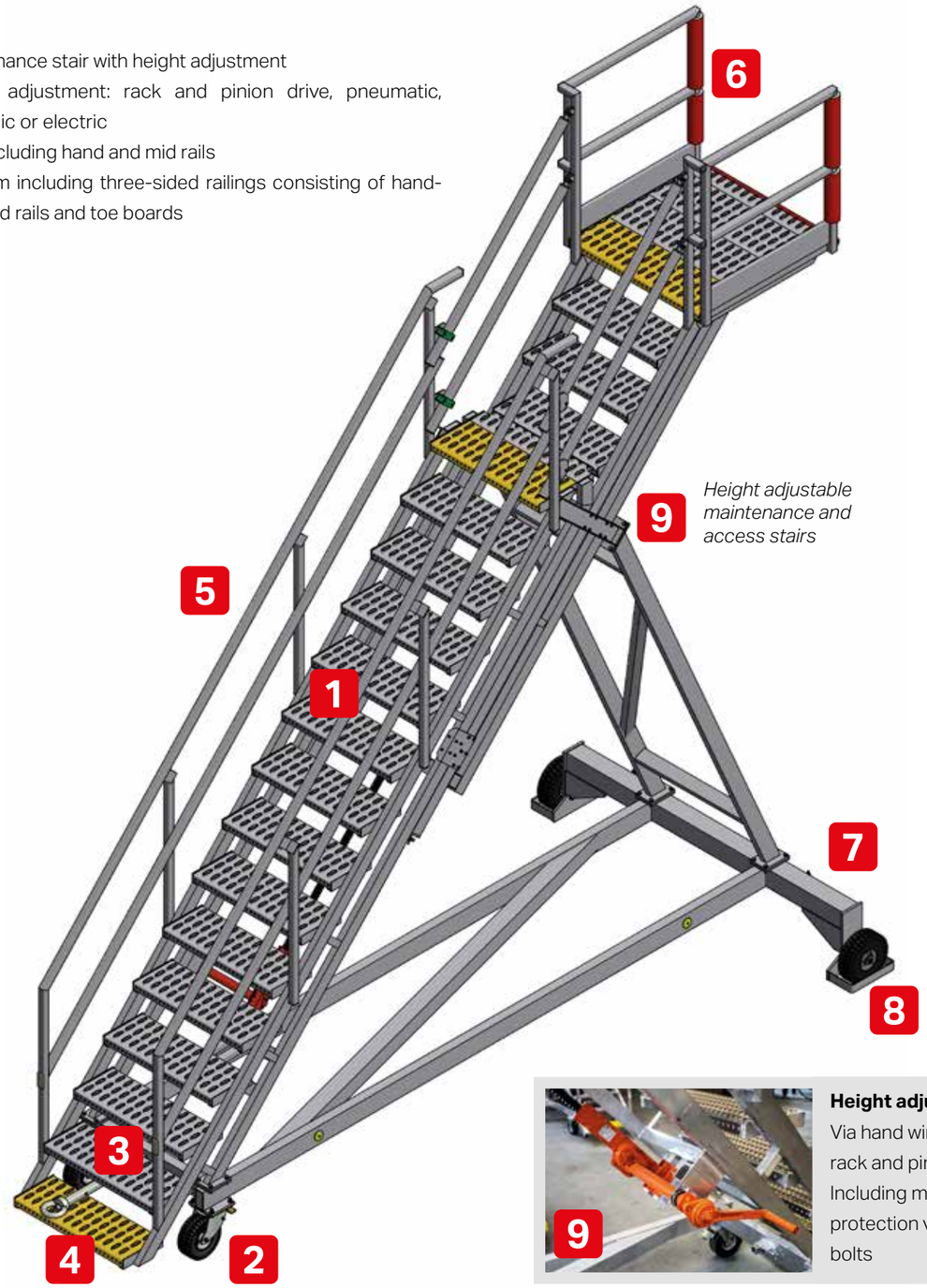
- Stable and lightweight construction achieved through welded and corrosion-resistant aluminium rectangular profiles
- Permissible step load: 150 kg
- Platform load: 200 kg / m²

Step- and platform covering
Aluminium serrated metal planks of the highest slip resistance class R13, permeable to water.

Swivel wheels with brakes
Two solid rubber swivel wheels for the access stairs, with Ø 250 mm, with brakes, puncture-free.

Drawbar
For a better mobility with a towing vehicle. The drawbar is insertable between the steps.

Initial step
For a better security the initial step is coated yellow (RAL 1028).



Height adjustable maintenance and access stairs

Railings
Welded rails (height: 1100 mm) which are ergonomically shaped. Handrails, mid rails, on the platform including toe board.

Edge protection
Tube pads and protective hose (Ø 60 mm) to protect the aircraft against damage which are in red signal colour and are skydrol-resistant.

Reflectors
Below the platform triangular red, on the access stair rectangular and white, at the sides round and orange.

Height adjustment
Via hand winch by rack and pinion drive, Including mechanical protection via security bolts

Fixed wheels
Full rubber wheel, Ø 300 mm, with foot protection, puncture-free.

Ground support equipment -
Standard version

Maintenance and access stairs **with fixed platform height**

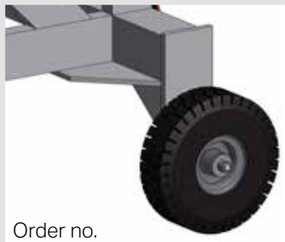
Number of steps		2	3	4	5	6	7	8
Platform height (mm)		500	750	1000	1250	1500	1750	2000
Total height (mm)		1600	1850	2100	2350	2600	2850	3100
Overhang (mm)		1600	1800	200	2200	2400	2600	2800
	Platform width							
Chassis width (mm)	**1000 mm**	1100	1100	1100	1700	1700	1700	1700
	2000 mm	2100	2100	2100	2200	2200	2200	2200
	3000 mm	3100	3100	3100	3100	3100	3100	3100
Step width (mm)		800	800	800	800	800	800	800
	Platform width							
Order No.	**1000 mm**	LTS800-1-2	LTS800-1-3	LTS800-1-4	LTS800-1-5	LTS800-1-6	LTS800-1-7	LTS800-1-8
	2000 mm	LTS800-2-2	LTS800-2-3	LTS800-2-4	LTS800-2-5	LTS800-2-6	LTS800-2-7	LTS800-2-8
	3000 mm	LTS800-3-2	LTS800-3-3	LTS800-3-4	LTS800-3-5	LTS800-3-6	LTS800-3-7	LTS800-3-8

- Access stair with fixed platform height
- 2 to 22 steps
- Stair including hand and mid rails
- Individual platform width possible
- Other dimensions also available
- Platform including 3 parts of railings consisting of hand rails, lower rails and toe boards
- The stable and lightweight construction achieved through welded and corrosion-resistant aluminium rectangular profiles
- Easy manoeuvring with 4 wheels
- Permissible step load: 150 kg
- Platform load: 200 kg / m²

Number of steps		9	10	11	12	13	14	15
Platform height (mm)		2250	2500	2750	3000	3250	3500	3750
Total height (mm)		3350	3600	3850	4100	4350	4600	4850
Overhang (mm)		3000	3200	3500	3800	4000	4200	4500
	Platform width							
Chassis width (mm)	**1000 mm**	1700	2900	2900	3300	3300	3300	3300
	2000 mm	2200	3300	3300	3300	3300	3800	3800
	3000 mm	3300	3900	3900	3900	3900	4400	4400
Step width (mm)		800	800	800	800	800	800	800
	Platform width							
Order No.	**1000 mm**	LTS800-1-9	LTS800-1-10	LTS800-1-11	LTS800-1-12	LTS800-1-13	LTS800-1-14	LTS800-1-15
	2000 mm	LTS800-2-9	LTS800-2-10	LTS800-2-11	LTS800-2-12	LTS800-2-13	LTS800-2-14	LTS800-2-15
	3000 mm	LTS800-3-9	LTS800-3-10	LTS800-3-11	LTS800-3-12	LTS800-3-13	LTS800-3-14	LTS800-3-15

Number of steps		16	17	18	19	20	21	22
Platform height (mm)		4000	4250	4500	4750	5000	5250	5500
Total height (mm)		5100	5350	5600	5850	6100	6350	6600
Overhang (mm)		4700	4900	5100	5300	5600	5800	6000
	Platform width							
Chassis width (mm)	**1000 mm**	3300	3300	4000	4000	4000	4500	4500
	2000 mm	3800	3800	4500	4500	4500	5000	5000
	3000 mm	4400	4400	5000	5000	5000	5500	5500
Step width (mm)		800	800	800	800	800	800	800
	Platform width							
Order No.	**1000 mm**	LTS800-1-16	LTS800-1-17	LTS800-1-18	LTS800-1-19	LTS800-1-20	LTS800-1-21	LTS800-1-22
	2000 mm	LTS800-2-16	LTS800-2-17	LTS800-2-18	LTS800-2-19	LTS800-2-20	LTS800-2-21	LTS800-2-22
	3000 mm	LTS800-3-16	LTS800-3-17	LTS800-3-18	LTS800-3-19	LTS800-3-20	LTS800-3-21	LTS800-3-22

Platform width 1000 / 2000 / 3000 mm



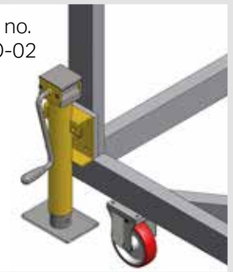
Order no.
LTS-O-01

Full rubber wheel
Ø 400 mm, skydrol-resistant, puncture-free

Order no. LTS-O-05

Hinged drawbar
Hinged drawbar which can be folded from the middle to the left and right side of the stairs.

Order no.
LTS-O-02



Spindle winch
Hand spindle winch to compensate uneven ground. Extendable up to 300 mm

Order no. LTS-O-06

Detachable towbar
Universal, detachable towbar to bring the maintenance stair into position by a towing vehicle

Order no. LTS-O-03

Sliding railings
Made of high-strength extruded aluminium profiles, height: 1100 mm, every 100 mm lockable, smooth-running

Order no.
LTS-O-07

Safety gate
Folding by 90° inwards, self-closing, ideal fall protection from the platform to the stairs

Order no. LTS-O-04

Central lever chassis
Storage stand with central lever on the right side of the stair

Order no.
LTS-O-08

Hinged or sliding railings
Made of high-strength extruded aluminium profiles, height: 1100 mm, every 100 mm lockable

Advantages

- High-quality aluminium profiles with high-strength alloys and corresponding components form the basis for light-weight and variable products
- Aluminium is corrosion-free and durable
- Easily manoeuverable and operable with minimal effort
- All stairs are easily expandable and modifiable
- Available for different types of aircraft
- For maintenance in hangar or outdoors
- Used profiles allow numerous changes and enhancements

Areas of application

Get convenient access to these important regions of your aircraft with an ALTEC maintenance and access stair:

- Access to the passenger doors
- Access to the cargo doors
- Maintenance work on the fuselage
- Maintenance work on the chassis
- Maintenance work below the wings

Stair width

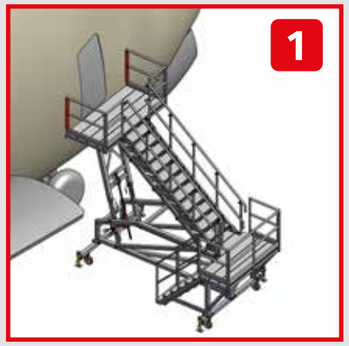
The width of the stair can be customized according to your requirements. The stair is available in a width of 600 mm, 800 mm, or 1000 mm.

Other dimensions are also available upon request.

Ground support equipment -
An overview

Number of steps	4	5	6	7	8	9	10		11	12	14	15	16	17	18	19	20
Platform height	1000 mm	1250 mm	1500 mm	1750 mm	2000 mm	2250 mm	2500 mm		2750 mm	3000 mm	3500 mm	3750 mm	4000 mm	4250 mm	4500 mm	4750 mm	5000 mm
Aircraft	✳ **Passenger Door**								☑ **Cargo Door**								
B717	☑					✳											
B727 / B737		☑					✳										
B707 / B720			☑							✳							
A318 / A319 / A320 / A321					☑						✳						
B757							☑					✳					
B767						☑							✳				
B787						☑								✳			
A300 / A310 / A330 / A340															✳		
B747 / B777							☑									✳	
A350 / A380									☑								✳
Bombardier CRJ200			✳														
Bombardier CRJ900					✳												
Embrear ERJ 145			✳														
Embrear EMB 190									✳								
Embrear EMB 175									✳								
Fokker 100				✳													
Fokker 70				✳													
MD 11 F									☑							✳	
IL 96						☑										✳	
Superjet 100							✳										
Dassault Falcon 2000			✳														
Embrear EMB 170				☑		✳											
ATR 42	✳																
ATR 72	✳																
Dornier DO 228		✳															
Dassault Falcon 20	✳																
BHC 8-400		✳															
DC 10																✳	
MD 80/90		☑					✳										

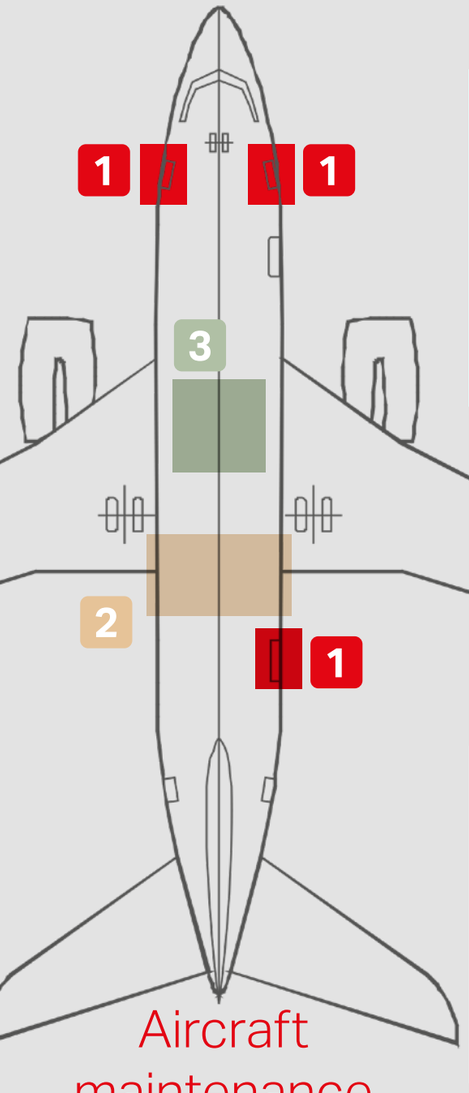
Antenna Access Platform



Access stairs to FWD/AFT door

Access stairs to FWD/AFT door

Access platform to cargo door



Emergency Slide Access Stand

Access stairs to cargo door

Landing gear bay access stairs

Aircraft maintenance equipment

Multifunctional height-adjustable access stair

- Height adjustment by hydraulic system via hand pump and simultaneous mechanical safety
- Platform height 970 to 3700 mm
- Two swivel wheels with brakes and two fixed castors
- Hinged drawbar
- Including edge protection

B737 AFT&FWD Pax Entry Door Access Stand

- Edge protection and cut-out platform, which can be supplemented if necessary to maintain the same length
- Sliding railing for contour accuracy
- Drawbar for moving, can be parked in the scaffolding when not in use
- Stair Lift & Brake System (SLBS)
- With three solid rubber wheels, two of them steerable and with brakes

Special designs according to your requirements

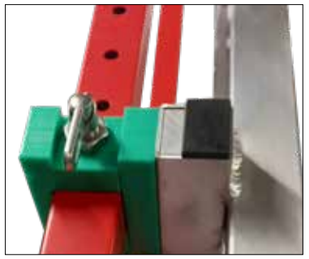
Access stairs
- Stair with fixed railings
- 2 swivel wheels with brakes (Ø 250 mm) and 2 fixed wheels (Ø 300 mm) with foot protection
- 10 steps
- Step and platform covering from serrated metal planks
- Including edge protection

B757 Cockpit access stairs
- Stair with fixed railings
- 4 swivel castors with brakes (Ø 200 mm)
- 15 steps
- Step and platform covering from corrugated aluminium
- Including edge protection

B757
Ground support equipment -
Custom made

B757 Cargo stairs
- Stair with fixed railings
- 4 swivel castors with brakes (Ø 200 mm)
- 10 steps
- Step and platform covering from corrugated aluminium
- Including edge protection

Wheel well stand
- Stair with fixed railings
- 4 swivel castors with brakes (Ø 160 mm)
- 6 steps
- Step and platform covering from standard grating
- Exit on both sides
- Contour adapted platform
- Including edge protection and barrier chains



Locking level for
sliding railing

Drawbar for moving
in parking position

B777 Cowling & Pylon Access Stand

- Narrow stair with a width of 600 mm for safe maneuvering around tightly parked aircraft
- Four breakable castors, Ø 200 mm. Castors are released via a hand crank through the supports
- When not in use, the drawbar is attached to the side in the parking position and secured
- 5 x plug-in railings that can be locked at the desired height with 2 x locking bolts. Each railing can be adjusted in height in 50 mm increments to allow for adjustment in the engine compartment area
- Four swivel castors with brakes
- Support spindles for stabilization

5 x Platform railing in parking position

Each railing can be slided in 50 mm steps

Fueling stair, height adjustable

Drawbar, first step and the platform edge are painted in signal colour yellow.

Hydraulic system via hand pump

Stabilizer jacks with hand winch

- Fueling stair including swivelling drawbar with brakes
- Height adjustment by hydraulic system via hand pump and simultaneous mechanical safety
- Height adjustment: 2500 to 4250 mm platform height
- Entry step, drawbar and platform are coated in yellow for better safety
- Including stabilizer jacks with hand winch for better stabilization
- Step and platform covering made of anti-slip, serrated metal plate (slip resistance R13)
- 4x pneumatic tires (Ø 550 mm)
- Max. speed: 21 km / h

Multi door A320 / B737 access stairs

- Height adjustment via rack and pinion drive
- Platform height from 3400 to 4200 mm
- Four swivel castors with brakes
- Support spindles for stabilization
- Step and platform covering: slip resistant serrated metal planks (R13)
- Enables access to pax door, cockpit door, cargo door
- With fixed railings
- Including edge protection on the platform

Enables access to pax door, cockpit door, cargo door

2850 mm
Platform height

1850 mm
Platform height

Edge protection

hydraulic system via hand pump

A320 Cargo door access stairs

- Height adjustment via hydraulic system hand pump and simultaneous mechanical safety
- Platform height from 1850 to 2850 mm
- With safety doors
- Including edge protection

4110 mm
Platform
height

3400 mm
Platform height

A320 Cockpit access stairs

- Height adjustment by hydraulic system via hand pump and simultaneous mechanical safety
- Platform height from 3400 to 4110 mm
- Step and platform covering from corrugated aluminium

Earthing cable

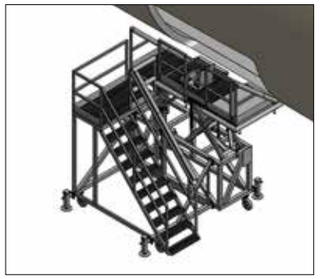
3500 mm
Platform height

1750 mm
Platform height

A330 / A343 / A346 / B744 / B748 Engine stair

- Height adjustment by hydraulic system via hand pump and simultaneous mechanical safety
- Platform height: 1750 to 3500 mm
- With earthing cable
- Additional step (folding)
- Initial step and platform edge are coated yellow
- Railings are painted orange
- With sliding platform to adapt to different widths of engines
- Despite height adjustment constant stair inclination

Example: **height adjustment via rack and pinion drive, Including mechanical protection via security bolts**



Multi aircraft height adjustable cargo door inspection platform

- Height adjustment by rack and pinion drive via hand winch
- Platform height 2200 to 2800 mm
- Four swivel castors with brakes
- Including sliding platform to adapt to the aircraft contour
- Railings removable without tools

Removable railings without tools

B4 Stand

- Height adjustment by hydraulic system via hand pump and simultaneous mechanical safety
- Platform height from 900 to 2200 mm
- Four swivel castors with brakes
- Including drawbar for easy manoeuvring by a towing vehicle
- Removable railings without tools

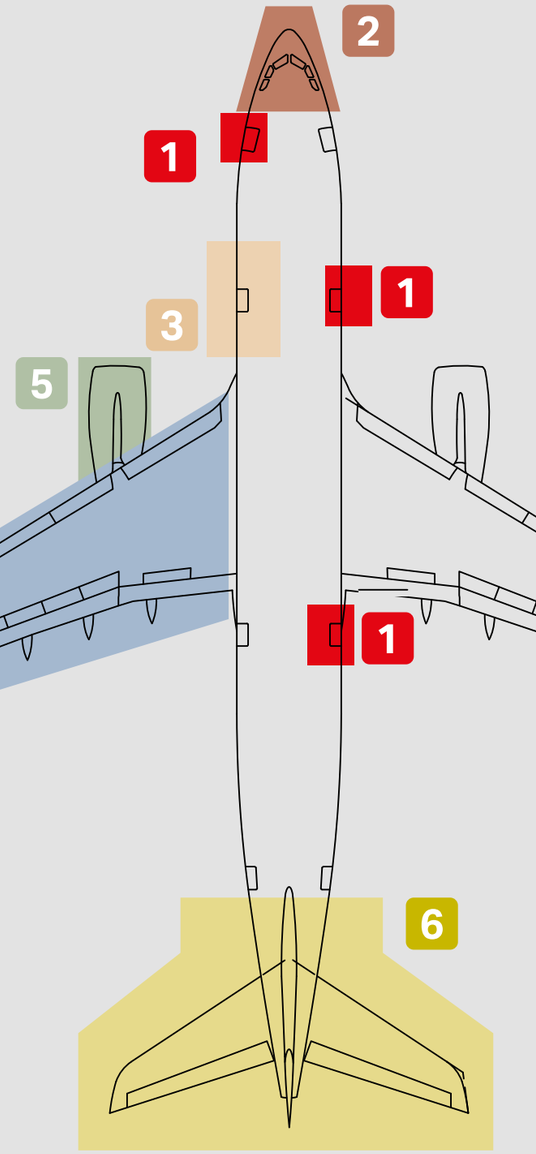
Engine access stair

Engine access stair

Wing access stair

Access stairs to passenger or cargo door

Engine access stair



Fuselage access stair

Wing access stair

Nose access stair

A330 (Trent 700) Engine stair

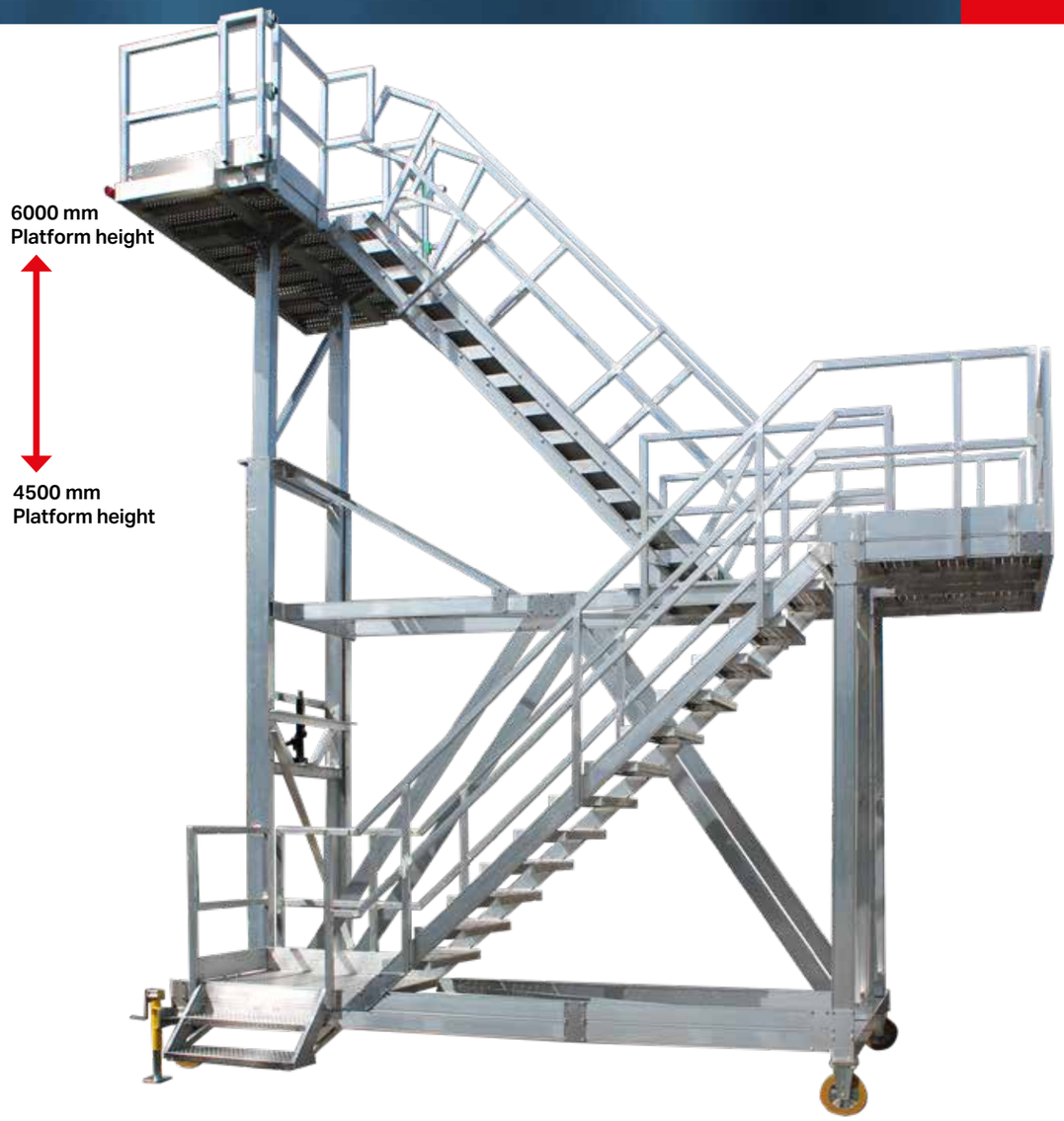
- With four solid rubber wheels, two of them steerable and with brakes
- Folding safety railings on the platform
- 7 steps
- Step and platform covering from aluminium structure planks
- Including edge protection

Platform stair with extendable podium

- With four castors, two of them steerable and with brakes
- Extendible platform
- Including folding podium (covering: coated plywood panels)
- Step covering from standard grating
- Platform covering from aluminium corrugated

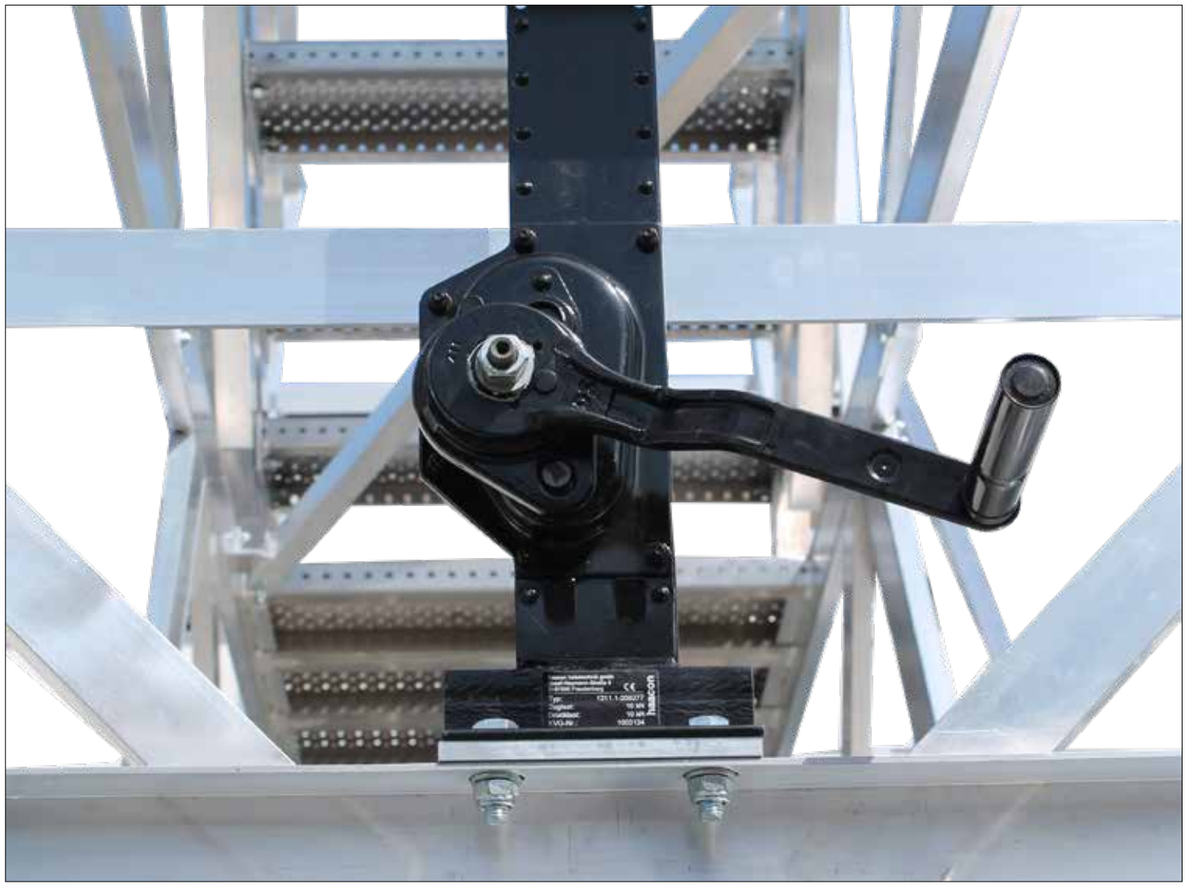
Coated plywood panels

Podium folded

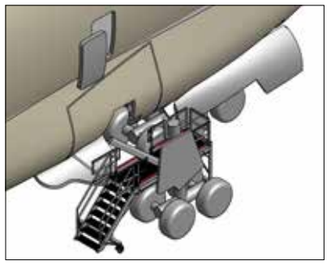


Wide Body Aircraft Pax Entry Door Access Stand

- Compact stair consisting of three parts. Counter-rotating steps save space during storage and manoeuvring between parked aircraft.
- Lower part of the stair has a fixed height with an angle of inclination of 45°.
- Upper part of the stair height-adjustable from 4500 mm to 6000 mm up to a maximum angle of inclination of 48.7°
- Telescopic railings
- Hand winch with rack
- Four brake rollers Ø 200 mm with brakes. Rollers are relieved at the front via a hand crank through the supports.
- Suitable for following AIRBUS models: A300, A310, A330, A340, and A380
- Suitable for following Boeing models: B747, B767, B777, and B787



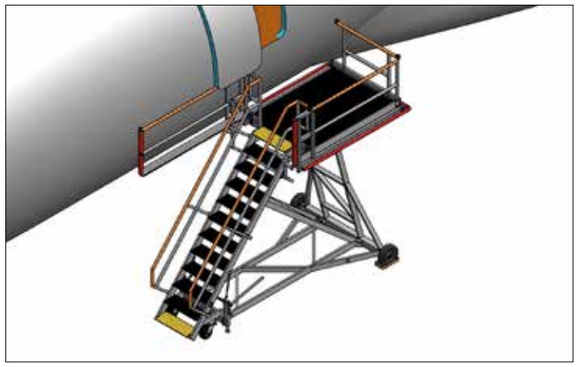
Railings in folded state



A380 Landing Gear maintenance stair

- With 4 swivel castors with brakes
- Hinged and sliding railings
- 8 steps
- Step- and platform covering from aluminium structure planks (R11)
- Including edge protection

Central lifting mechanism with locking device



Maintenance stair to replace the emergency slide

- With central drawworks
- Lockable, sliding railings to the left and the right of the platform
- Four solid rubber wheels (below the platform fixed and with foot protection, steerable on the stair and with brakes)

Aircraft Docking Systems made by ALTEC Aluminium-Technik GmbH

Docking Systems consist of light and mobile modules which are tailored to the contours of one individual aircraft or several similar aircrafts. Different working levels can be reached by integrated stairs.

On request we install a system with special devices such as:
- electric devices
- pneumatic devices
- lighting devices

Step load of 150 kg and platform load of 200 kg / m^2 are possible as well as a point load of 1.5 kN.

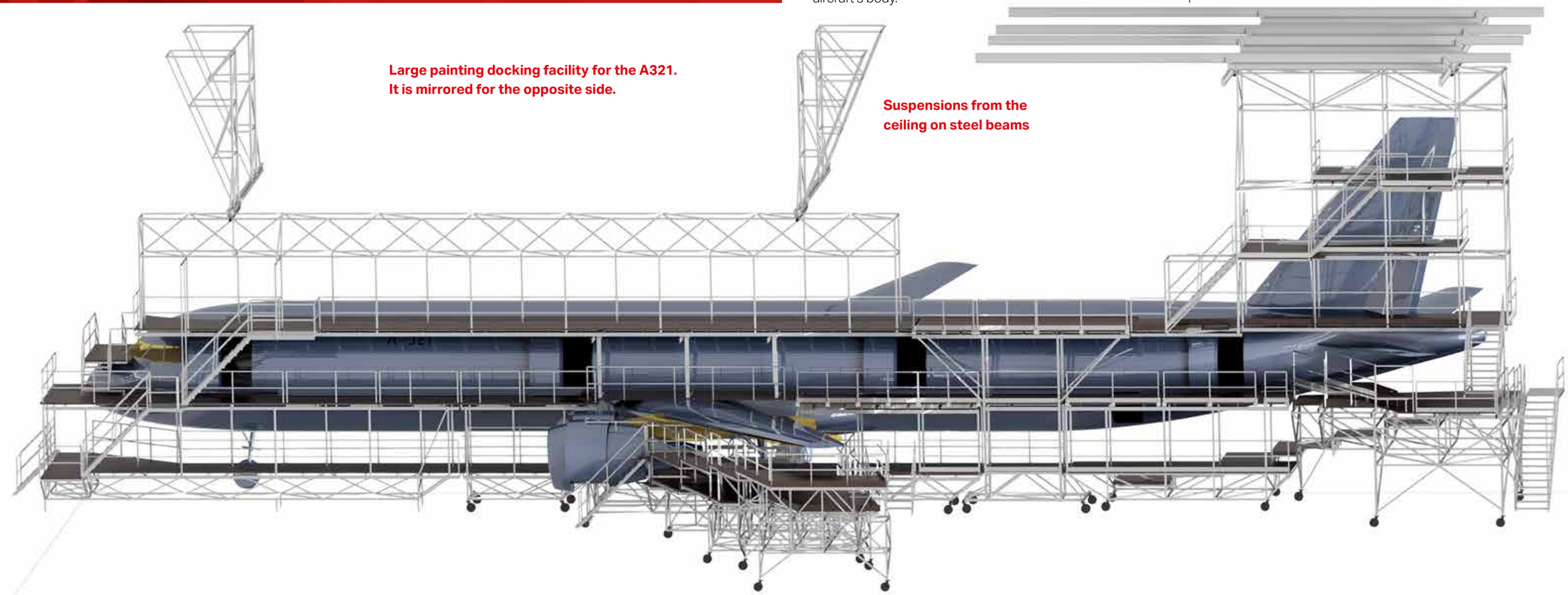
During the construction and manufacturing process of aircraft docking systems, we consider the following norms and standards:

- **EN131**
- **DIN EN ISO 14122**
- **DIN EN 1915**
- **DIN EN 12312**
- **BGV C10**
- **DIN 18800**
- **Machinery Directive 2006/42/EC**

Docking Systems

A complete docking system consists of different components which fit perfectly together and surround the aircraft accurately and completely. Of course fuselage, wing, engine and tail docks can be used separately. But all together they enable an extensive access to the aircraft. Individual modules can be moved by hand or by towing vehicle on castors up to a speed of 3 km / h. Supporting spindles are used as a relief of castors, and offer protection against unwanted movements as well as to compensate unevennesses in ground.

Our docking systems can be optimized for specific purposes, for instance for the **maintenance and repair** of the aircraft as well as for the **aircraft construction** and the **painting** of the aircraft's body.

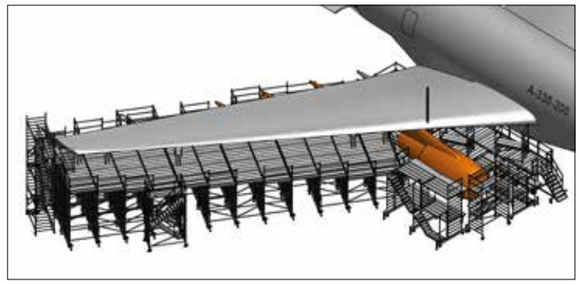


Large painting docking facility for the A321.
It is mirrored for the opposite side.

Suspensions from the ceiling on steel beams

Wing docks

Docks for the wings of an airplane can be designed differently. It is possible to use a fixed, finished welded working platform for the wings as well as a flexible dock made of scaffold modules. ALTEC scaffolds are a cost-efficient and flexible alternative.



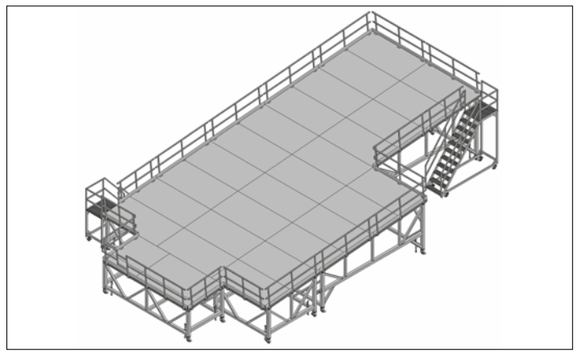
Wing and engine scaffolding for Airbus A330

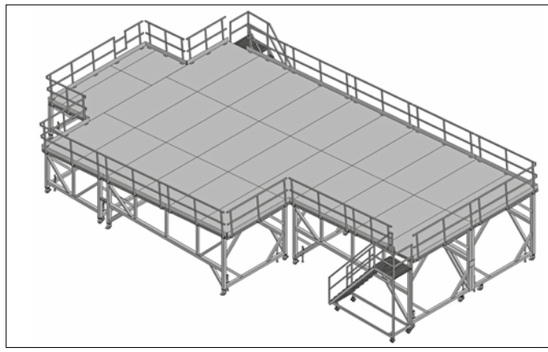
- Basis: established professional mobile scaffold system AluLight
- Use: Painting of the aircraft (convertible for painting of the aircrafts A400 M and C-160)
- Covering from serrated metal planks, slip resistance class R13, which allows drainage of liquids

Wing scaffolding for Airbus A380

- Basis: established professional mobile scaffold system AluLight
- Use: Wing rib modification
- Covering: serrated metal planks, slip resistance class R13, allows drainage of liquids
- The wing is accessible through the stair tower
- Provides access to the entire area below the wing as well as to the leading and trailing edges and to the wing tips

Narrow body wing dock for Boeing B757





Narrow body wing dock for Boeing B757

- Consists of 6 individual modules that follow the wing's line in their inclination
- Usage: maintenance work
- Entirely made of aluminium profiles as a weldment
- Welded railings with ergonomically rounded edges
- Covering: coated plywood panels

Fuselage docks

Electrically height adjustable main and upper deck platform for Airbus A380 / Boeing B747

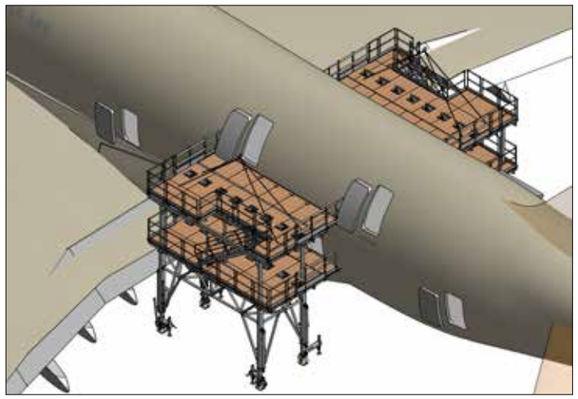
- Consists of two levels connected by stairs
- Height adjustment from 5600 mm to 7500 mm through hydraulic system with an electric control
- Movable on castors (Ø 400 mm) combined with folding handlebars
- Equipped with sliding platforms with a sliding distance of 800 mm for individual contour matching
- Multiple platforms are joined without a gap

- Covering: Coated plywood panels
- Handrails adjustable with a width of 1000 mm and at the fuselage sliding railing, in the inclination to individual contour adjustable
- Aluminium / steel construction
- Use: Modification of the aircraft interior

Module Platform for Airbus A380 / Boeing 747

Fuselage dock for Airbus A380

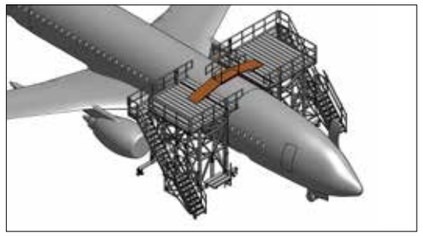
- Dock consists of 2 levels and reaches from the cockpit via a bridge in the wing area to the aircraft's tail
- Equipped with lighting, electrical and compressed air connections
- Completely made of galvanized steel profiles in a welded construction
- Covering: coated plywood panels
- Welded railing with ergonomically rounded edges
- Exact adaptation to the body contour
- Edge protection prevents damage to the aircraft skin

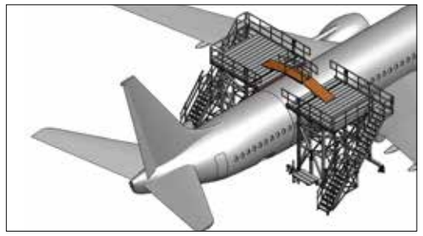


Module Platform for A319 / A320 / A321 / B737

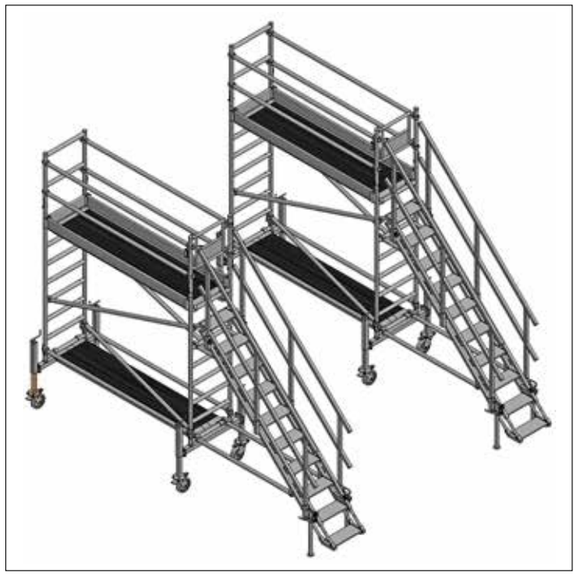
Fuselage platform for A319 / A320 / A321 / B737

- Pair of platforms allows maintenance both the sides and the roof of the fuselage through a bridge sliding on rails at the platform
- Covering: serrated metal plate of the slip resistance class R13, allows draining of liquids
- For adaptation to different states of aircraft fueling and to the different aircraft models, the platforms are height adjustable via a rack and pinion drive from 3400 mm to 4200 mm platform height
- Parallel stairs allow always a constant angle of inclination
- Movable by hand or by towing vehicle up to 6 km / h



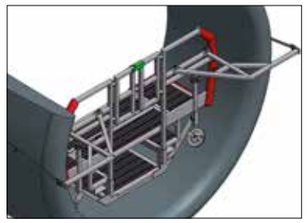


Decomposable cowling stand for Airbus 380



Dismontable cowling stand for Airbus A380

- Steps consisting of water-permeable aluminium structure planks of the slip resistance class R13 and platform from corrugated aluminium profiles
- Self-closing safety door
- Can be completely disassembled for transportation by air freight containers
- Height adjustable via hand spindles on-jacks for the maintenance of the aircraft



Lifting of the engine podium
by forklift

Engine scaffold for Boeing 747

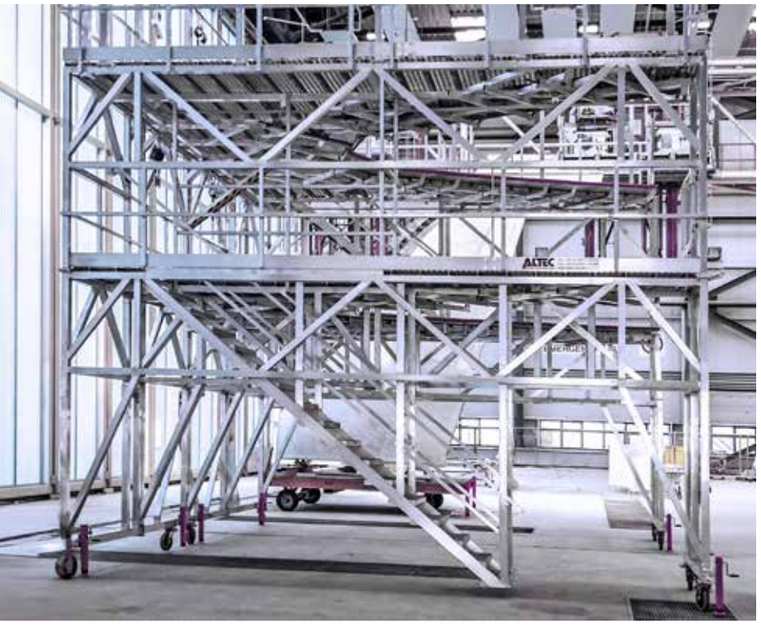
Engine scaffold for Boeing B747

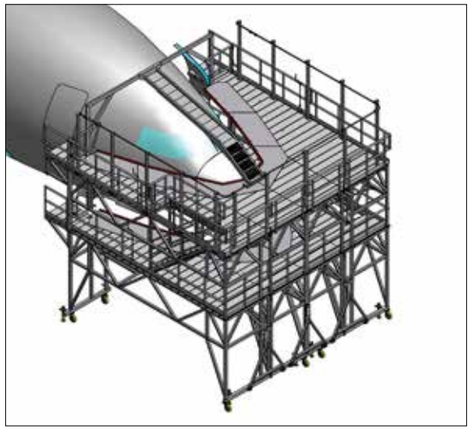
- Step covering: aluminium corrugated
- Platform covering: coated plywood panels
- Can be completely disassembled for transportation by air freight containers
- Use: maintenance above the B747 engines

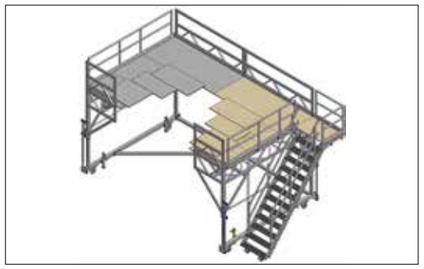
Nose docks

Nose dock for Airbus A330

- Dock consists of two platform halves for a tail-in configuration and 2 work levels for painting work in the area of the cockpit windows and the radome
- Equipped with a rail system in the railing area for the use of a PSA
- Completely made of aluminium profiles as a welded structure
- Covering: serrated metal planks of the slip resistance class R13
- Welded railing with ergonomically rounded edges
- Continuous adaptation to the respective aircraft contour on sliding platforms
- Edge protection prevents damage to the aircraft surface







Height adjustable Nose dock

Height adjustable nose dock for Challenger 600 Series / Dassault Falcon 7X / Global 5000

- Dock consists of a stage for maintenance work in the cockpit windows
- Completely made of aluminium profiles as a welded construction
- Covering: coated plywood panels
- Welded railing with ergonomically rounded edges
- Continuous adaptation to the respective aircraft contour on sliding platforms
- Skydrol-resistant edge protection prevents damage to the aircraft surface

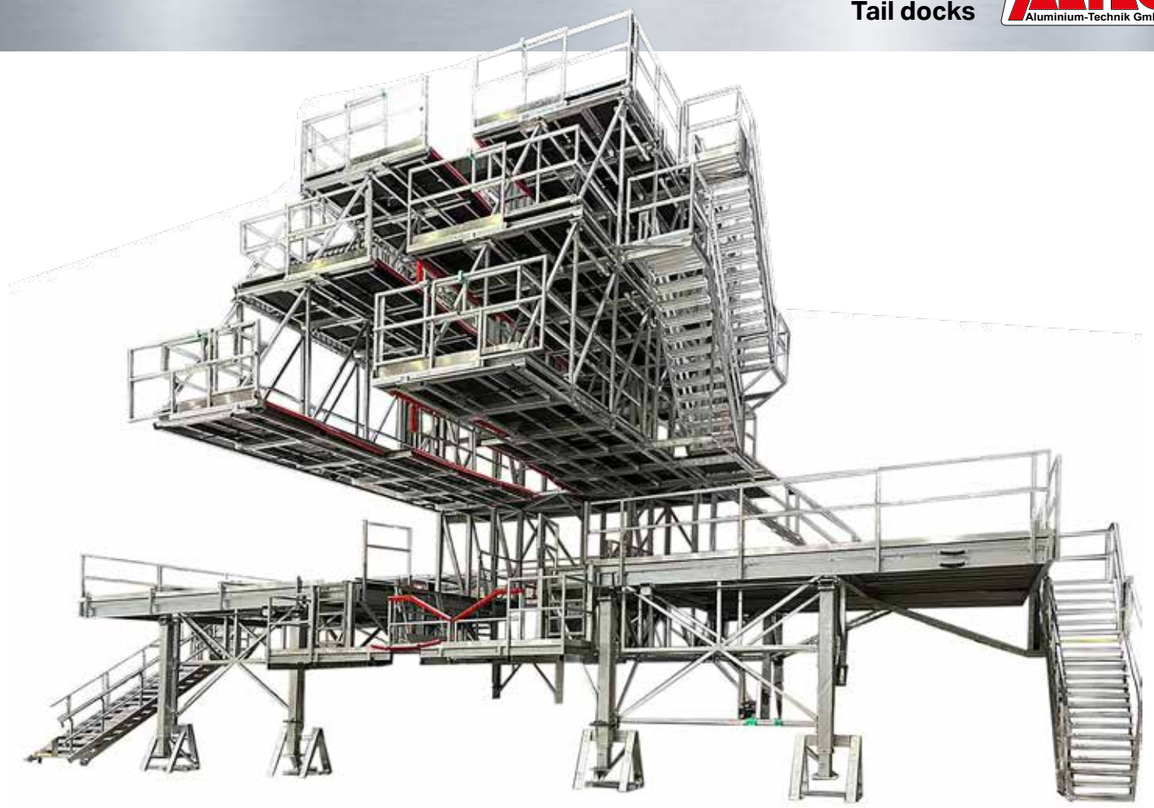
A320 and B737 Height-Adjustable Tail Dock

Tail dock consists of 4 levels and 2 halves

1

2

Aircraft Docking Systems -
Tail docks



3

4

Tail dock consists of 4 levels and 2 halves

1. Equipped with lighting, electrical, and compressed air connections
2. Adjustable stairs allow a constant angle of steps
3. Integrated sliding platforms ensure platform contour accuracy and fast docking process
4. Access to horizontal and vertical stabilisers, rudder, and APU

- Quickly detachable wheels allow both tail- and nose-in configuration
- APU-Platform separately height adjustable

Aircraft Docking Systems -
Tail Dock

1

1 Easy access to upper levels via external stairs

2 **Spindle lift system** with electronic monitoring of the system via a stop proximity switch (limit switch). This monitors the upper and lower positions and stops automatically when the desired position is reached. The signal is transmitted to the control unit via an electrical signal. The platform can be raised and lowered using the remote control.

3 The platform can be manoeuvered with a suitable towing vehicle. The vehicle is coupled to the drawbar for this purpose. The rollers are also controlled by personnel through the handlebars. Max. towing speed: 2 km/h.

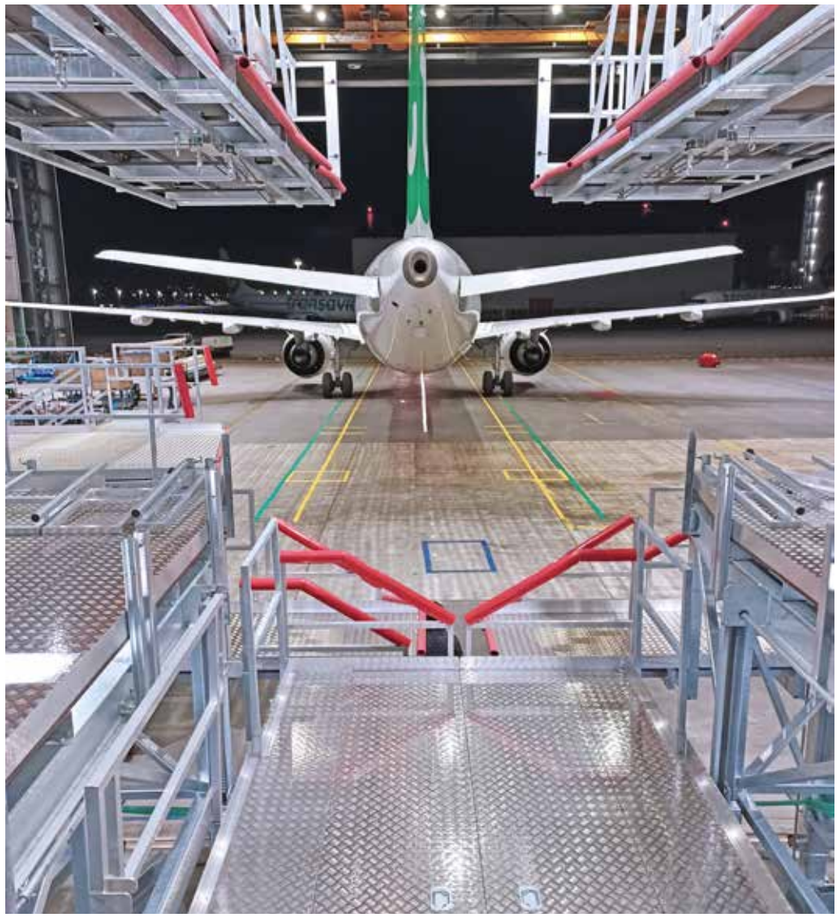
4 Height-adjustments allows maintenance on A320 & B737 aircraft both on wheels and on jacks

2

3

4

5



5 Edge protection prevents damage to the aircraft surface.

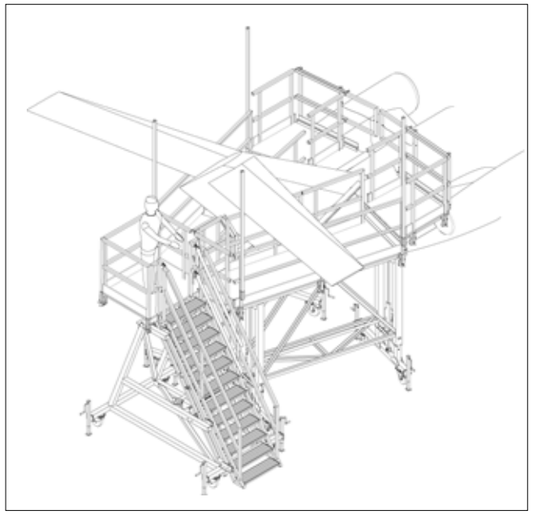
6 Once the aircraft has been moved into position, the sliding platforms are positioned using racks and pinion drives.

7 At the end, the platform is at the aircraft and the railings are folded back.

6

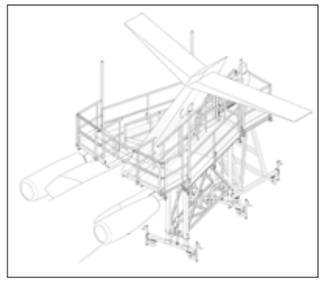
7

Height adjustable tail dock for Cessna CJ1 - CJ4

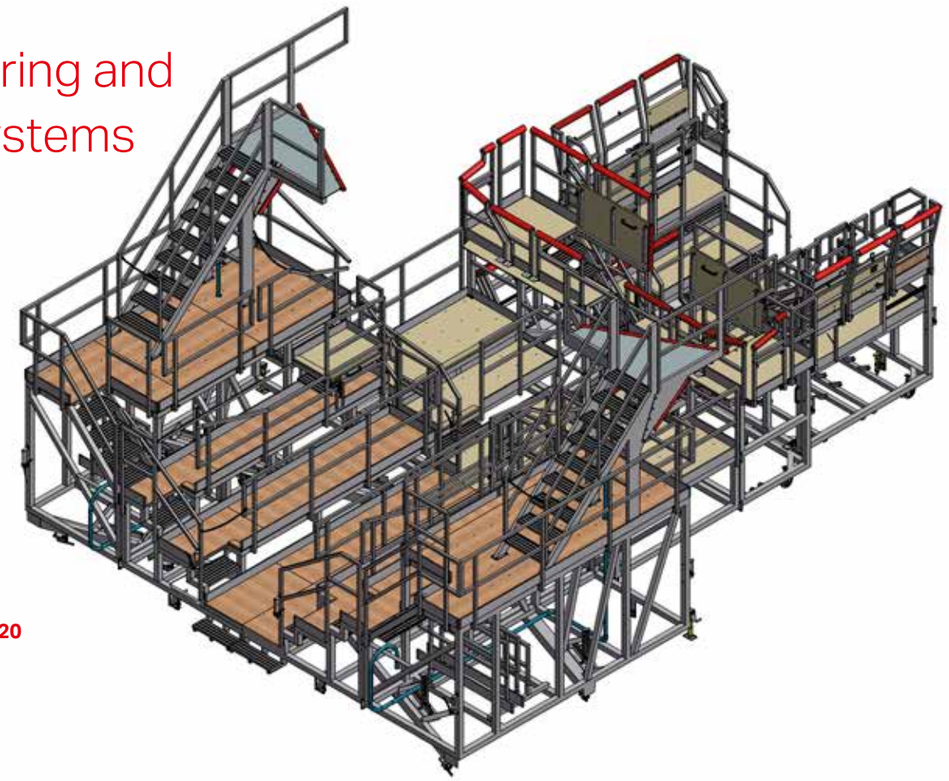


Height adjustable, multifunctional tail dock for Cessna CJ1 - CJ4

- Dock consists of two platform halves on one level and an additional access stair
- Completely made of aluminium profiles as a welded construction
- Covering: coated plywood panels
- Welded railing with ergonomically rounded edges
- Edge protection prevents damage to the aircraft surface
- Height adjustment via rack and pinion mechanism



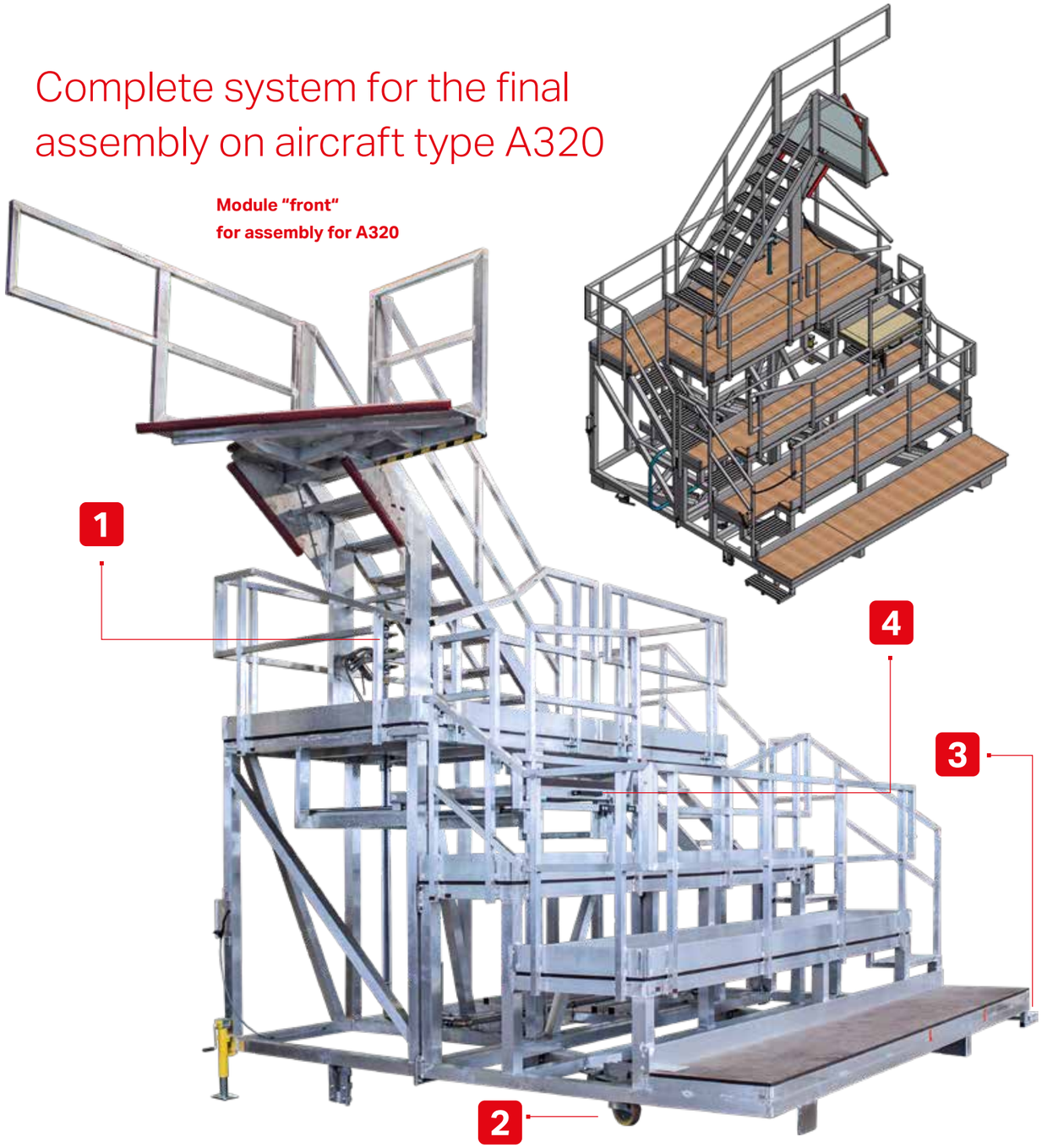
Manufacturing and painting systems



Wing platform for assembly of the A320

Complete system for the final assembly on aircraft type A320

**Module “front”
for assembly for A320**



- Consisting of 8 module platforms
- Five working levels with integrated stairs
- Easily manoeuvrable by castors with central brakes
- Platform covering: coated plywood panels
- Additionally, it can be moved through the rail system inserted in indoor floor.
- Flexible usage through removable railings

A320

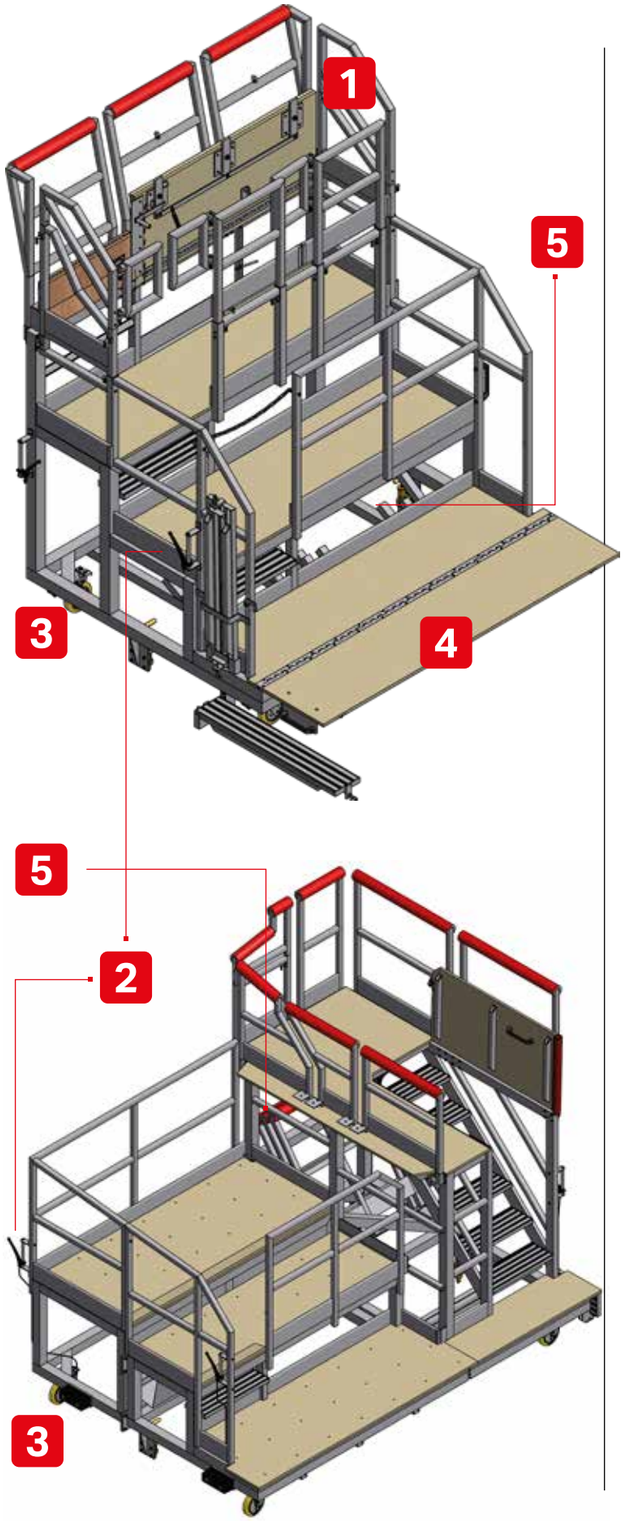
Aircraft Docking Systems -
For the final assembly of aircraft

1 Compressed air
of the large platform on the upper working level

2 Additional castors
for manoeuvring on rails

3 Foldable step

4 Extendable podium
with locking pin



Folding mechanism
of the large platform on the upper working level

Leaver for releasing
the castors with dead man's-swivel brakes

Swivel castor
with directional lock

Folding
wooden platform

Rest positions
of the removable railings below the platform

Mobile hangar extension "tail in"

Length: 10.771 mm; Width: 18.034 mm; Height: 13.576 mm

Emergency Exit on the back

400 mm Castors; Rubber Covers with a height of 40 to 50 cm

- The hangar has a stair leading to the emergency exit.
- In its final position, the hangar extension is lowered by means of spindles and rests on separate steel supports.
- Back with transparent roller doors. Doors are operated by electric motors.
- On the underside of the hangar extension are rubber covers with a height of approx. 40 to 50cm.
- The hangar extension is cladded outside with a white 80 mm sandwich panel which ensure the necessary insulation and thus minimize heating costs.

The gate is operated by a control panel in the hangar extension.

Roller shutter gate is located on top of the front wall.

Lightness can be increased by lamps installed on top

Wide-body aircraft

Aircraft Docking Systems -
Mobile hangar extension

Mobile hangar extension “nose in”

Sealing above

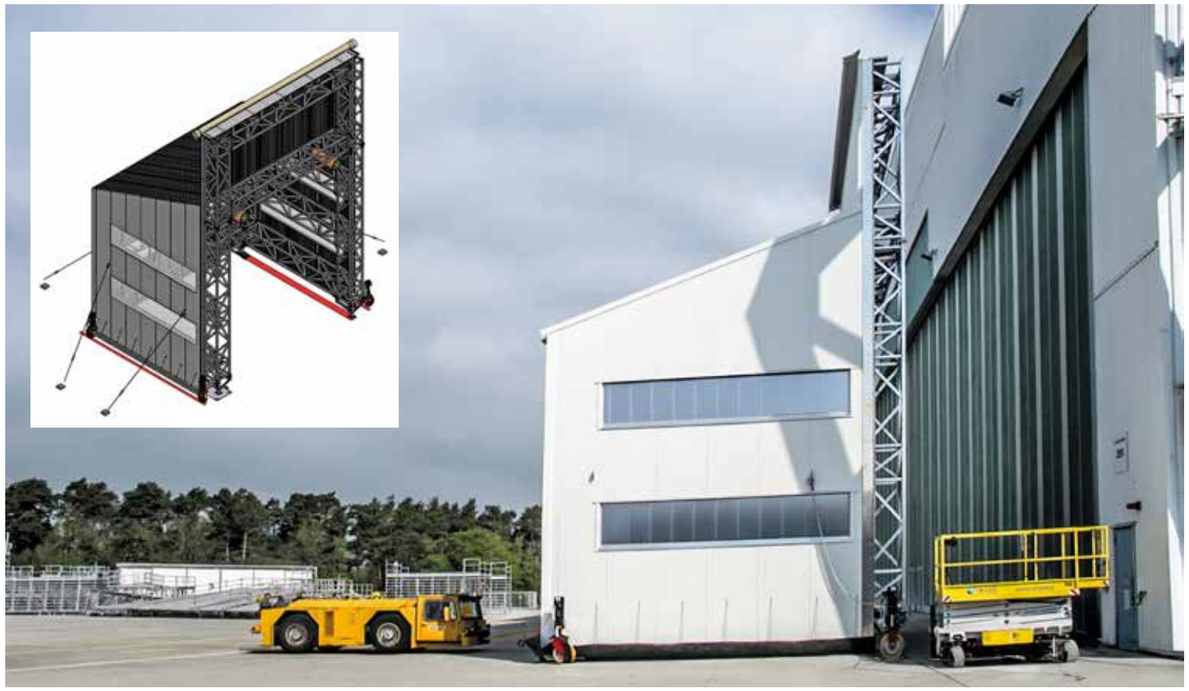
Pipe of the ventilation system

Lighting

- Hall extension, for purpose of corrosion resistance and movement, is made of aluminium box girders and aluminium sandwich panels.
- The total width of the hall extension is 1000 mm and the total height is 1500 mm, so that a wide body nose dock can be integrated while tail-in docking. The integration of a tail dock while nose-in docking would also be possible.
- When not needed, the hall extension can be taken away by tow vehicle.
- A guying for the purpose of use at medium and high wind speeds takes place via six separate chains, so that the hall doors are not loaded. A modification of the hall is thus not necessary.
- The hall extension is equipped with lighting, sockets and a ventilation system.
- On the sides, the sealing is achieved through integrated receivers whereas upwards an inflatable tube was used.
- Integrated windows allow always a sufficient exposure to light.

Hangar extension from the inside

Hangar extension while manoeuvring



Hangar extension when docking to the hall

Equipment options made by

Special constructions offer a variety of options. In order to accurately meet the individual requirements of the customers we can facilitate the productivity and flexibility of your work with details.

Base plates, castors and wheels

Swivel castor with directional lock

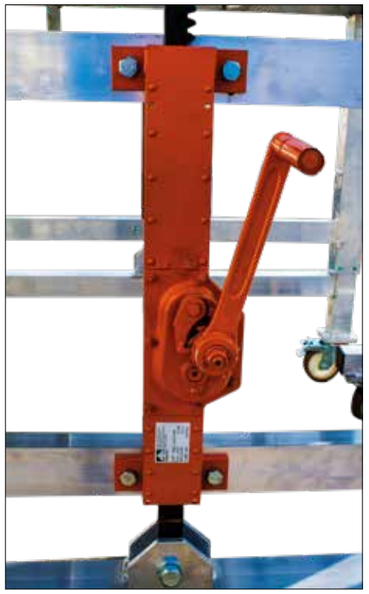
- Depending on the use, base plates, castors or wheels with different configuration in terms of design, material, and load capacity can be used

Swivel wheels with brakes
Two solid rubber swivel wheels on the stair access, with Ø 250 mm, with brakes, puncture-free.

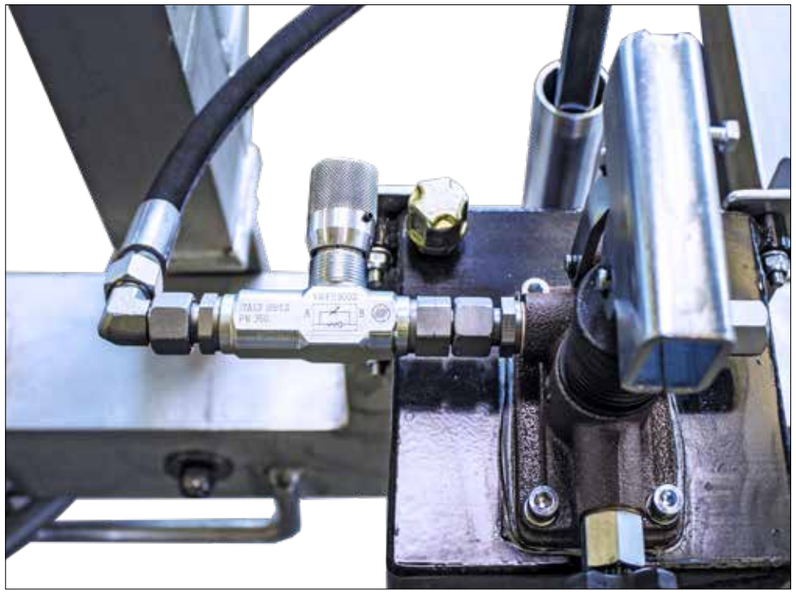
- Spindles provide a flexible height adjustment and ensure a secure stand

Height adjustment

- Rack and pinion drive
- Pneumatic
- Hydraulic
- Electric



Supporting spindle with hand winch



Height adjustment by hydraulic system

Step and platform covering

Serrated metal planks
Slip resistance class R13

Perforated metal plate
Slip resistance class R11

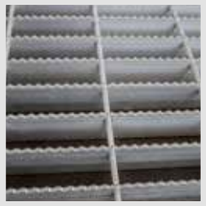
Aluminium checker plate
Slip resistance class R11

Corrugated aluminium profiles
Slip resistance class R11

Highly corrugated aluminium profiles
Slip resistance class R11

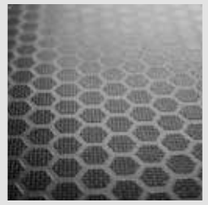
Aluminium structure plank
Slip resistance class R13

Corrugated aluminium profiles
Slip resistance class R11



Aluminium structure plank
Slip resistance class R11

Aluminium security grating
Slip resistance class R11

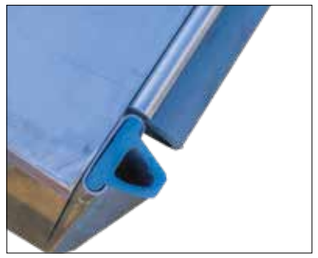


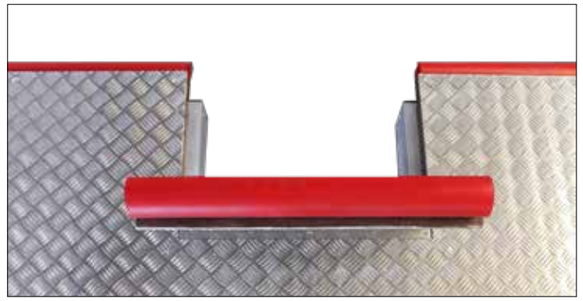
Coated plywood panel
Slip resistance class R11-R12

Edge protection and cushioning

With edge protection you protect your aircraft effectively against damage.

- Tube pads in different diameters
- Edge protection profiles

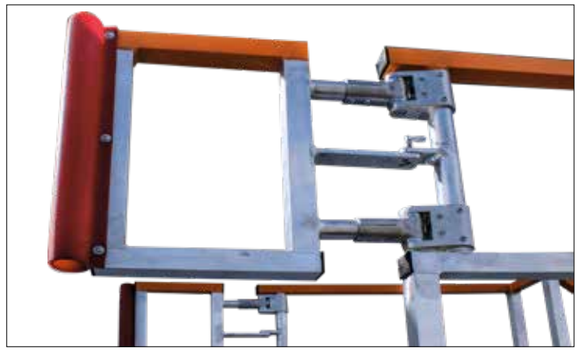




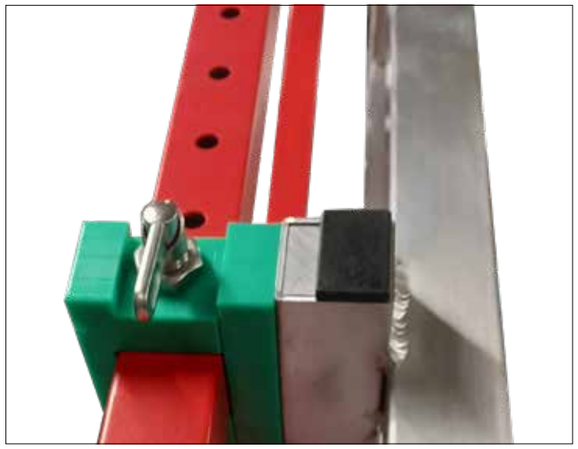
Railings and fall protections

Fall protection is an important part of occupational safety. With flexible railing systems, stairs and working platforms remain mobile and are effectively usable for different purposes.

- Doors in railing
- Foldable rails
- Removable rails
- Sliding rails
- Telescopic rails
- Safety chain
- Safety net
- Doors with electrical monitoring
- Self-locking doors
- Self-closing doors



Self-closing door as fall protection



Locking level for sliding railing for safety

Trays

Trays can be easily hung on the handrails and allow secure and ergonomic depositing of tools directly in the workplace. This saves time and labor, and reduces the risk of accidents caused by deposited tools on the platform.

ASCENT MADE TO MEASURE

We aim for perfection!

All our ALTEC working and maintenance platforms combine the technical know-how of years of development and practice. Profit from our demand for quality and safety. Our team of highly qualified personnel will manufacture your product with commitment and accuracy, our machinery is always up-to-date. The whole production flow is closely monitored: from the supply of raw materials to the finished product. **We are your partner for efficiency, safety, and innovation!**

40 YEARS

Quality. Experience.
Innovation.

ALTEC® Aluminium-Technik GmbH

ALTEC Aluminium-Technik GmbH
Nikolaus-Otto-Straße 18 | 56727 Mayen
Tel. + 49 (0) 26 51- 4019 300 | Fax + 49 (0) 26 51- 4019 301
mail@altec-alu.de | **www.altec-alu.de**

Irrtümer und Druckfehler vorbehalten.
© *ALTEC* Aluminium-Technik GmbH • Stand 10/2025