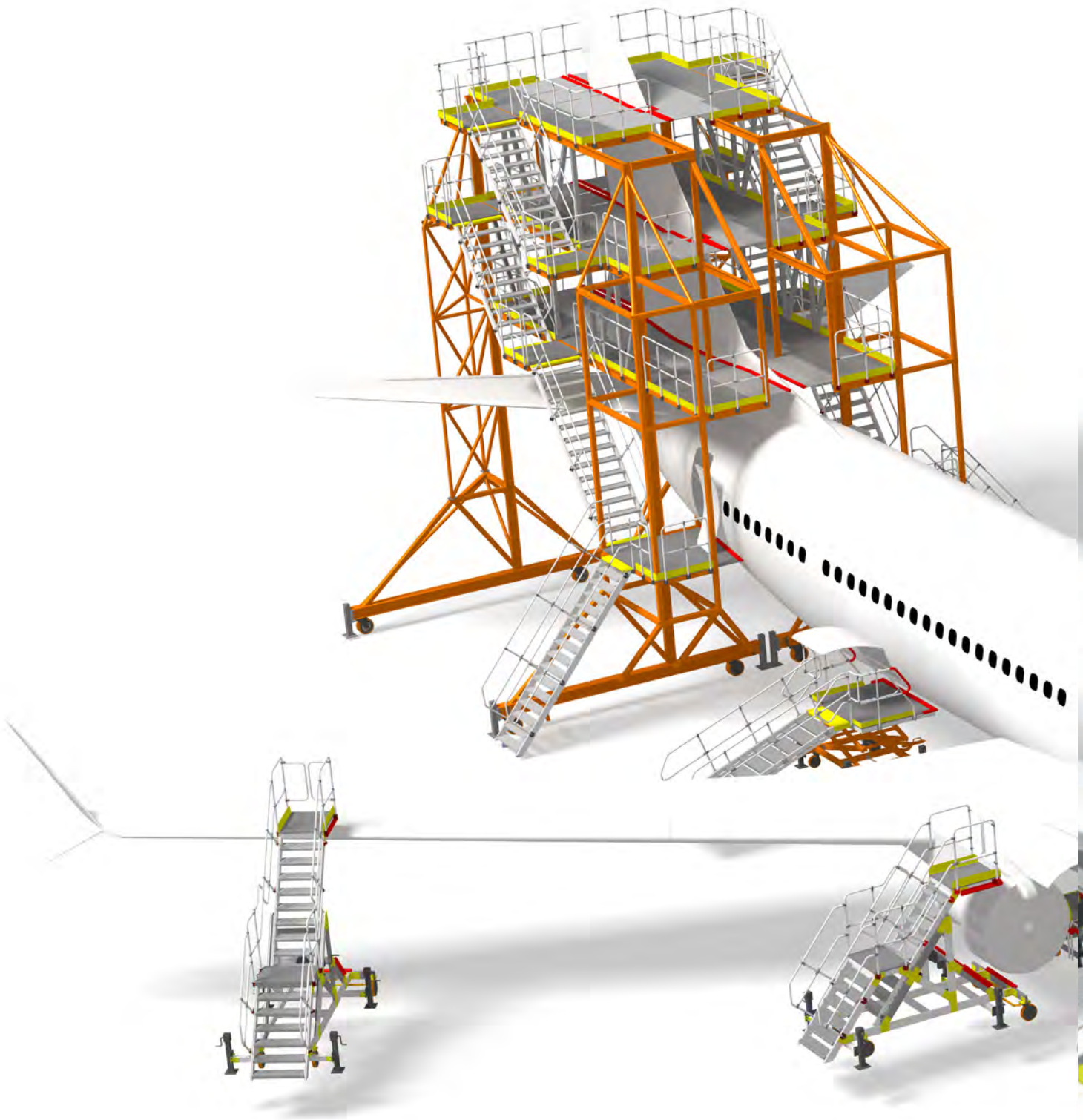




**AVIATION ACCESS SOLUTIONS**  
[www.makroaero.com](http://www.makroaero.com)





Proven solutions complying to the industry specs that are engineered to increase efficiency and safety in daily operations.



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## ABOUT US



MAKRO AERO is a manufacturing and engineering company that provides Access Stands, Platforms, Maintenance Docking & Painting Docking Systems to civil – military, business aviation and MRO companies. MAKRO AERO also designs, develops and delivers MRO tools.

We offer technically proven, cost effective solutions and innovative products to our customers to meet their engineering and operational challenges in their daily operations. Our solutions are dependable and affordable.





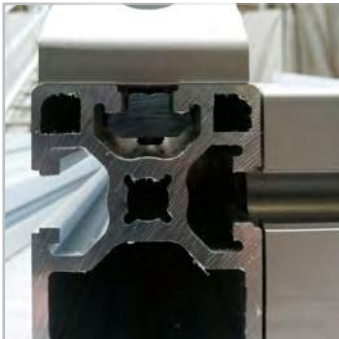
## DESIGN

MAKRO AERO retains in-house design capability and owns the design specifications of the products that we offer to our customers. We aim to improve effectiveness, efficiency and safety when designing our products. Our products serve both wide body and narrow body aircrafts.



## PRODUCTION

MAKRO AERO employs state of the art technology in the production process. MAKRO AERO products range from simple standard access steps to complex and large custom-made docking structures. We continue to broaden our product portfolio in accordance with the evolving needs of the industry.



## QUALITY

High Quality is the principle element of design and development process in MAKRO AERO. Our products are built with the highest quality and standards. We always ensure our products comply with standards stipulated by the industry and the customer. We follow the industry closely and newly introduced Quality Standards are immediately incorporated into our products. MAKRO AERO is a ISO 9001:2015 certified company.



## SAFETY

Safety is an indispensable feature in aviation and MAKRO AERO takes safety first and foremost. We never compromise on safety. Safety requirements and features are reflected from the first step in the design process.





KARGO  
STANDI



KARGO  
STAND





## PASSENGER DOOR STANDS



Robust PAX Door Stands designed to serve wide body and narrow body aircrafts. Deployed for base maintenance as well as line maintenance. Available in different height options. Functional and affordable. Aluminum structure renders them easily maneuverable. Job done with less effort.

- Height adjustable and fixed height availability
- Lightweight structure
- Large platform size
- Vibration-free structure
- Hydraulic height adjustment with fail safe system





# 08

## CARGO STANDS



Cargo bay stands providing services to various wide body and narrow body aircrafts. Height adjustable to allow for various height positions. Smooth engagement to the aircraft cargo door sill increases operational effectiveness and enables effortless cargo load.

- Heavy duty stabilizing jacks
- Extended platform size for comfortable movement
- Wide steps
- Hydraulic height adjustment with fail safe system
- Protective hose on the face side on the platform



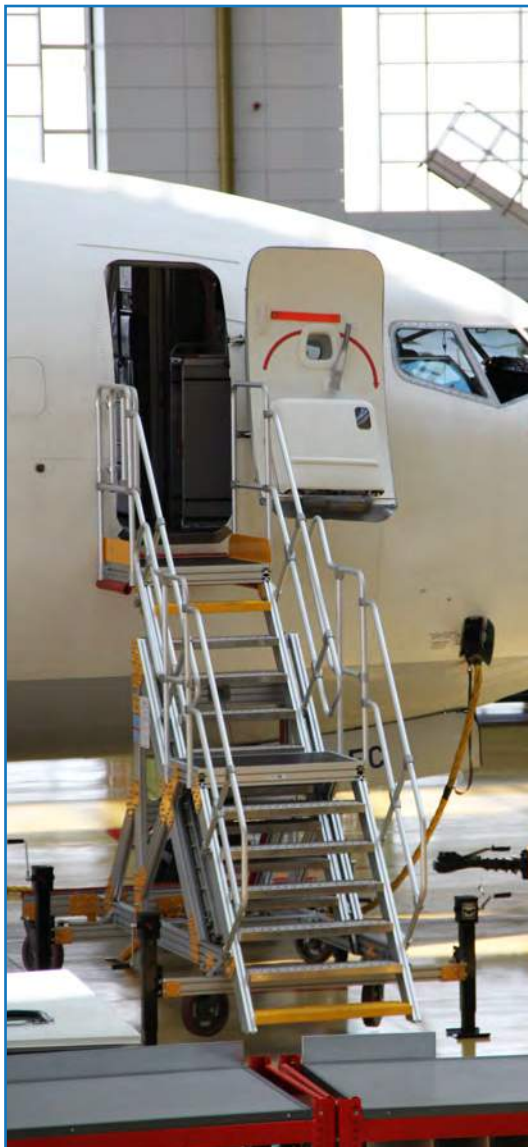


# 09

## MULTIPURPOSE STANDS



Multi-Purpose Stands are designed to function on different areas of the aircraft. Versatile design enabling easy access to PAX Door, pylons, wings, cockpit, stabilizer area, etc. Sleek design that operates in space-stricken areas. One size fits all type stand for various base and line maintenance requirements. Money Saver.



- Easily maneuverable
- Heavy duty stabilizing jacks
- Height adjustable
- Extendable platform size according to the specific needs
- Wide steps
- Towable structure



# 10

## ENGINE STANDS



Engine Stands are designed to serve engines installed on wide body and narrow body aircrafts. Stands manufactured for GE, Pratt & Whitney, Rolls-Royce and other manufacturer engines are available providing comfortable access to front, rear, underbody and exhaust outlet areas. Aluminum or steel/aluminum structure

- Height adjustable
- Large platform size
- Wide steps up to 1000 mm.
- Kickboard





# 11

## LANDING GEAR STANDS



Reliable, robust, effective Landing Gear Stands are available in Adjustable Height and Fixed Height. Provide convenient access solution to the Wheel Well area and the Leg area. Allow smooth engagement in space limited landing gear area. Require minimum prep for job. Ideally designed for wide body and narrow body aircrafts.





APU Stands offer convenient and safe access to APU for visual checks and maintenance. Scissor lift mechanism enables secure APU assembly and disassembly. Suitable for indoor or outdoor use.

- Adjustable height and fixed height
- Manual, automatic, windlass, gearing or hydraulic height adjustment mechanisms
- Vibration free structure
- Heavy duty stabilizing jacks
- Large platform size
- Wide steps
- Protective hose on the face side on the platform
- Automatic mechanical locking system regardless of user's will



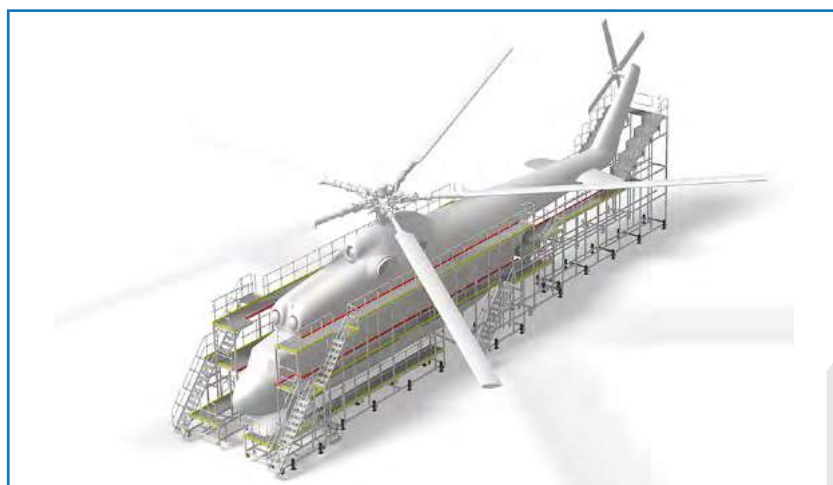
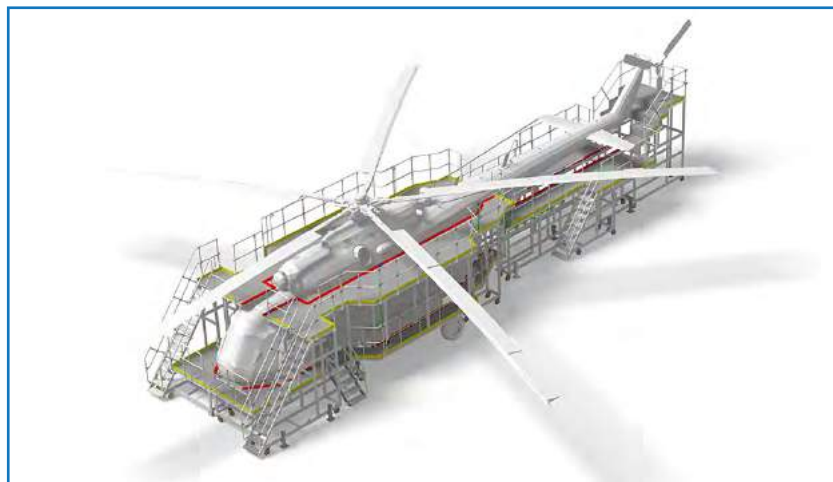


# 13

## HELICOPTER STANDS



MAKRO AERO offer various types of Helicopter Stands for specific needs. Stepladders are versatile and easily maneuverable whereas docking platforms surrounding the helicopter enable efficient working platform for the technicians. Products for military and civilian helicopters are available providing ideal adjustment to the helicopter structure.



# 14

## PYLON STANDS



Pylon stands providing easy access to pylon area. Height adjustability offers access to other aircraft parts such as wing, stabilizer compartment areas. Suitable for narrow and wide body aircrafts with two or four engines. Complete aluminum strut structure ensures quality and flexibility.

- Aluminum or steel / aluminum structure
- Heavy duty caster wheels
- Heavy duty stabilizing jacks
- Large platform size for comfortable movement
- Wide steps





# 15

## COCKPIT STANDS



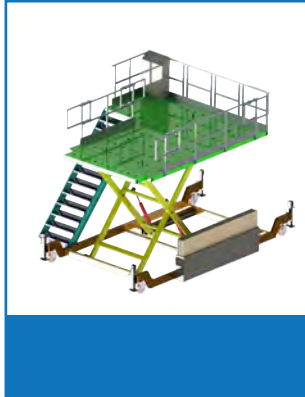
Cockpit Stand suitable for accessing cockpit area comfortably.

- Functional and easy to use.
- Precise adjustment.



# 16

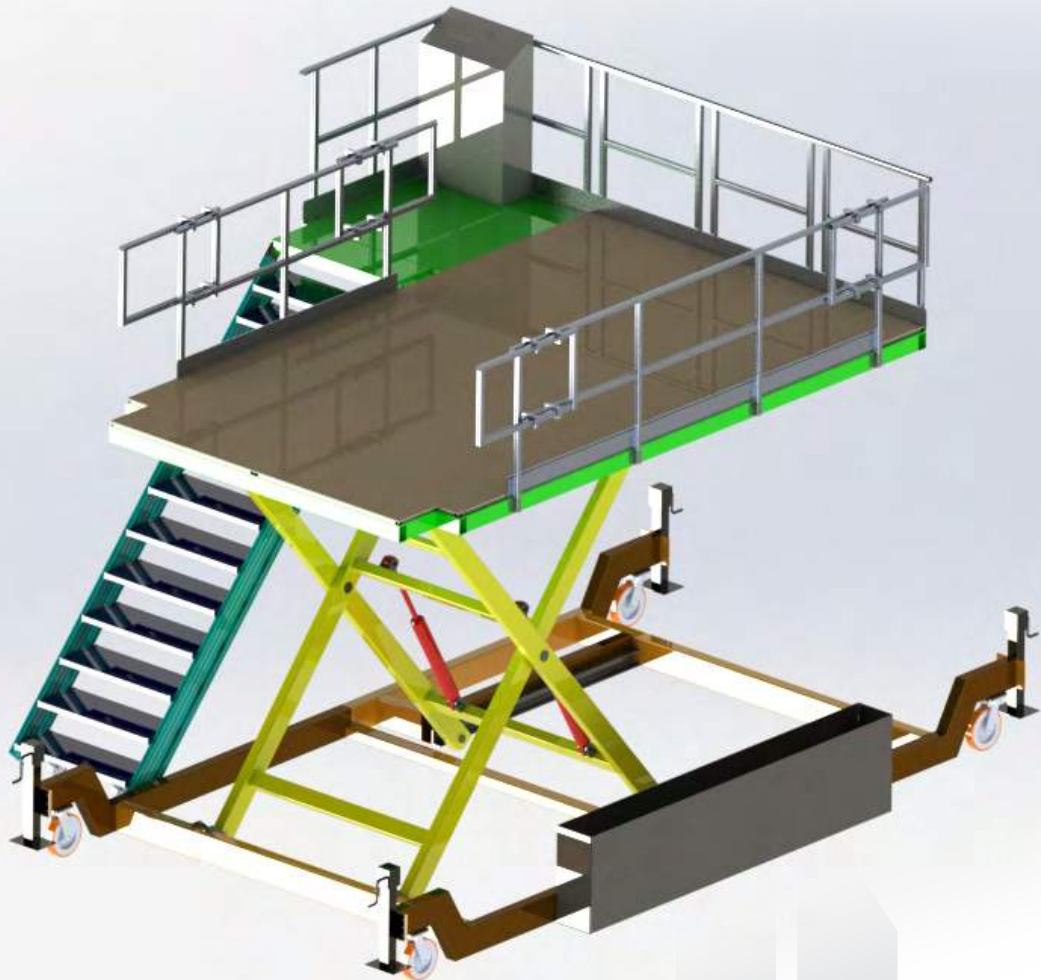
## HIGH LOADER - CARGO STAND



High-Loader suitable for uploading/downloading Crew Rest Containers and Cargo Containers. Multi-Purpose for dual use.

Operates as a cargo stand for wide body aircrafts as well.

Eliminates redundancy and unnecessary investment need for separate platforms.









MAKRO AERO docking platforms range from Nose, Fuselage, Wings to Tail encasing the whole aircraft structure. We also supply partial solutions focusing on the desired areas.

Designed to present high quality engineering solutions. Docking platforms serving Wide Body, Narrow Body and Business Type Aircrafts are available. Optimized Steel and Aluminum application in dock construction enable durable and lightweight structure.

Per request full aluminum docks are also offered. Options for hydraulic and electromechanical height adjustment mechanisms.



MAKRO AERO Docking Platforms provide a comfortable and safe working area for the technicians. Easy assembly translates into reduced downtime and increased efficiency.

Improved and intensified solutions customized according to the specific needs and space requirements.





# 19

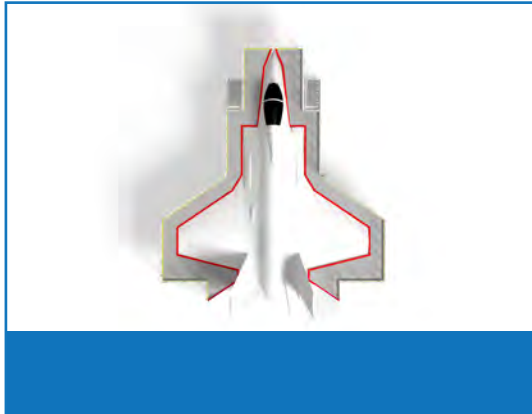
## WING & NOSE & FUSELAGE DOCKING PLATFORMS



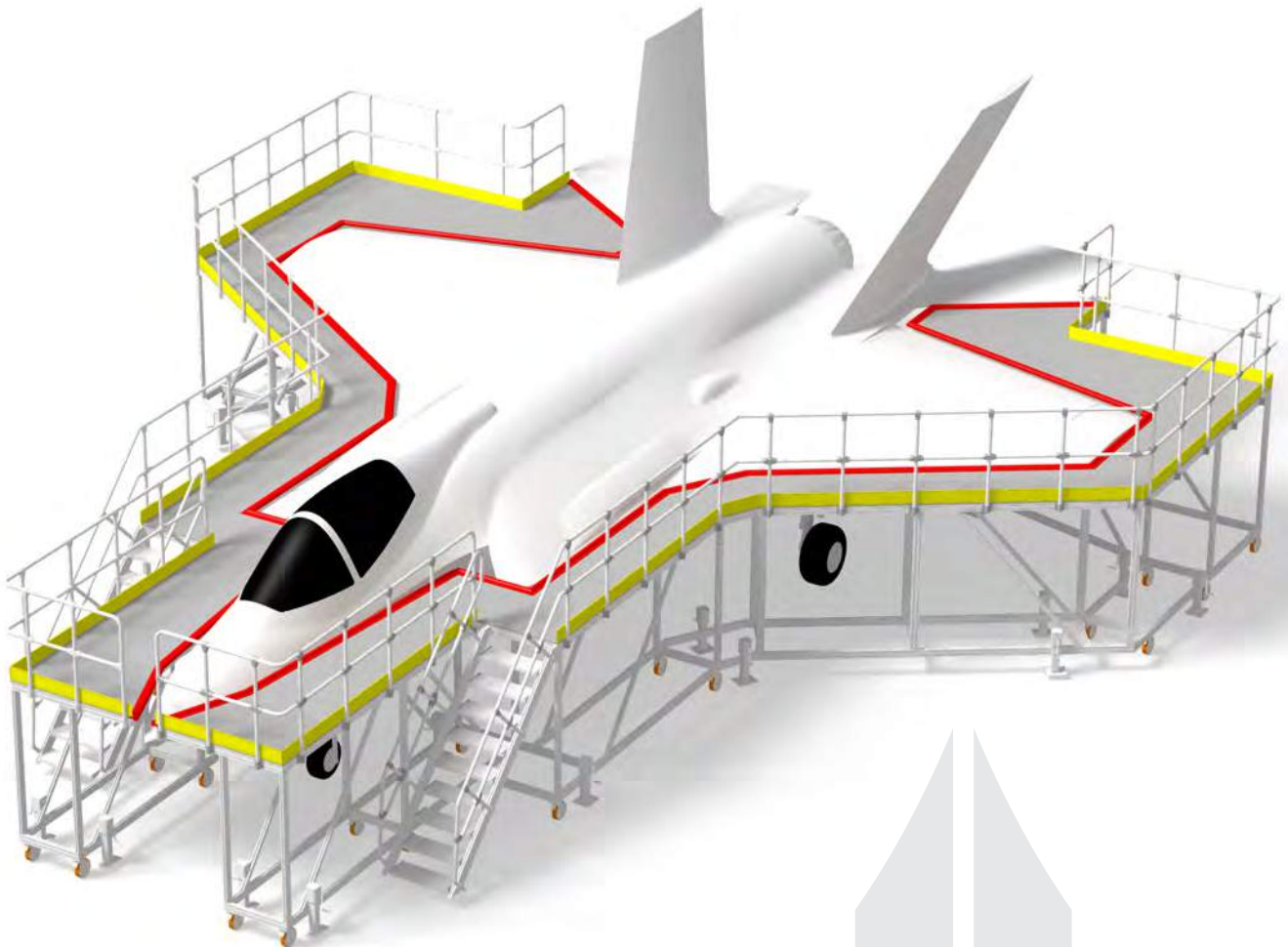
### FEATURES

- Grounded or suspended systems
- Different aircraft approach configurations
- Height adjustability to allow for aircraft on-wheels or on-jacks position
- Electric and pneumatic service stations
- Heavy duty caster wheels and other transfer options
- Heavy duty stabilizing jacks or hydraulic stabilizing
- Special sliding platforms capturing gaps
- Kickboard or modesty panels
- Towing options
- Sliding, hinged, rotating, railing options
- Protective hose on the required areas
- Silicone bumper gasket





Access solutions for military aircrafts complying to military standards. Applications for a wide range from fighters to mobility aircrafts and tankers. Specialty products for military maintenance and operational activities.





## AIRFRAME PRODUCTION BOW PLATFORM



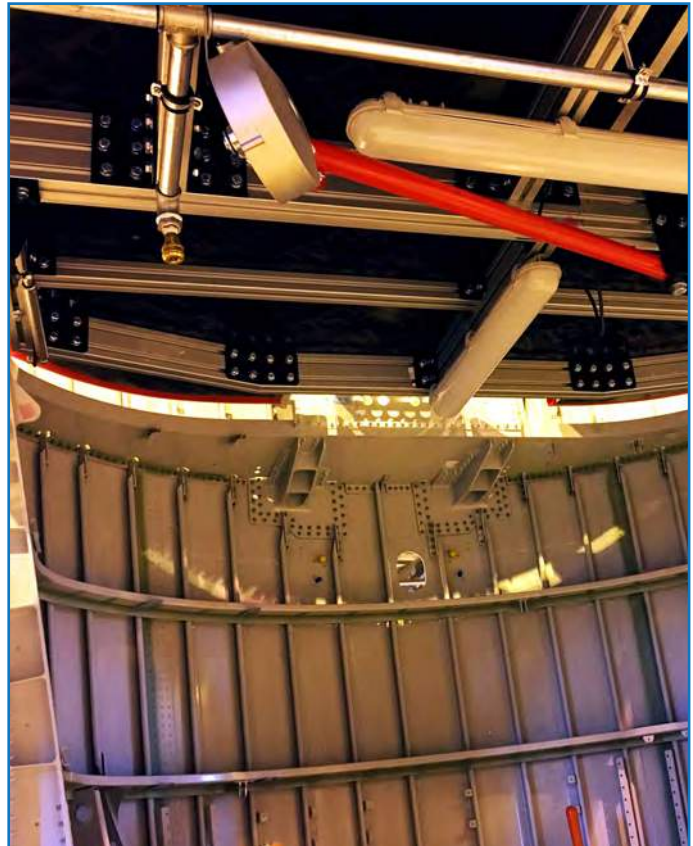
- Designed and developed to be employed for aircrafts.
- Platform encasing the nose section to carry out verification checks requiring detailed processes and precision adjustment.
- State of the art technology with demanding application requirements.
- High quality, durable outfittings.
- High quality finishing.







Airframe Cone Section Platform-Turkish Aerospace Industry Facility.  
Customized solution designed and implemented.  
Functional design with quality features.  
On-Site assembly and commissioning.  
Reliable performance.  
Aluminum lightweight, durable structure.  
Integration of multiple modular systems.





# 23

## HALF BARREL PLATFORM



Half Barrel Stand-Turkish Aerospace Industry Facility.

Fixed Structure  
Precision in Engineering







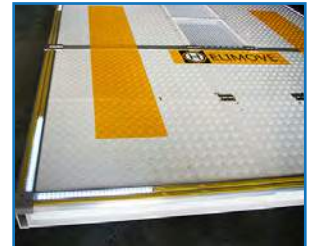
Stabilizer Jack



Stabilizer Jack



Lighting



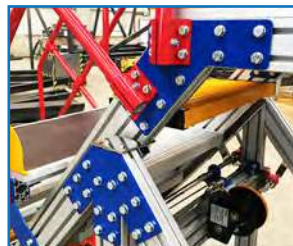
Lighting



Hand Pump



Hand Pump



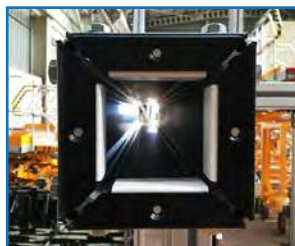
High Quality  
Finishing



High Quality  
Finishing



Tow Hitch



Telescopic  
Profile Systems



Air Outlet



Outlet



Hard Rubber Edges



Pinion Rack



Pinion Rack



Pinion Rack

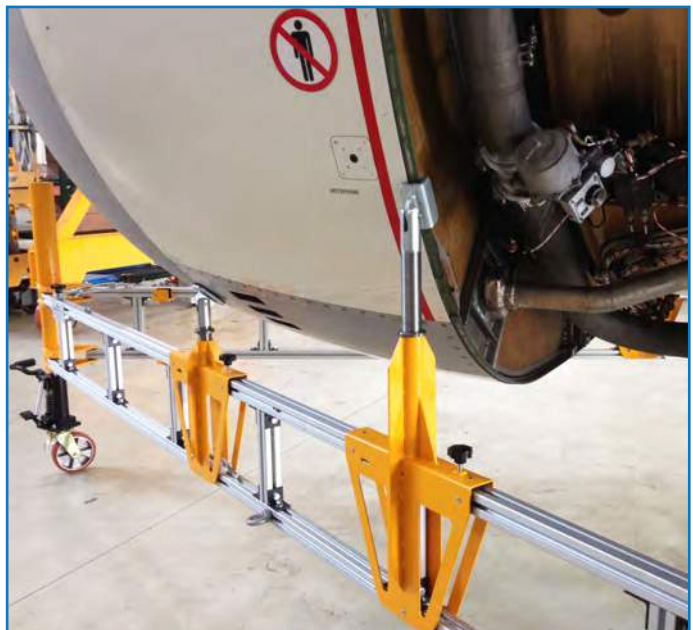
High calibre outfittings and accessories. Durable and low maintenance applications.



MLG Trolley for A330 & A340 Aircrafts.  
Equipped with industry accepted safety and quality features. Easy to maneuver.



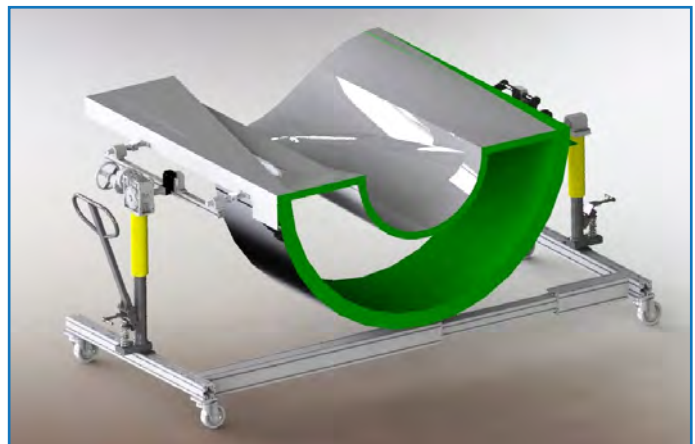
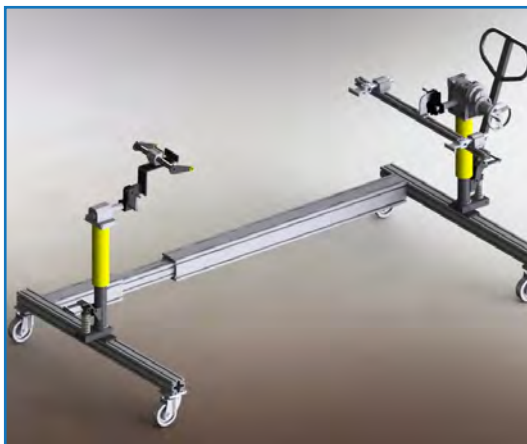
Nose Cowl Dolly for B737 & A320 & A330 Engines.  
Designed to achieve efficiency. A wide range use from B737 to A330 aircrafts.



Disassembly Tool for Narrow Body Nose and Main Landing Gear (A320&B737) and Wide Body Nose Landing Gear (A330&A340).  
Available with 6 different size jaw clutches. Effective tool to mount and dismount NLG&MLG of Narrow Body Aircrafts and suitable for NLG for Wide Body Aircrafts.



Reverse Dolly for Wide Body and Narrow Body Aircrafts.  
Practical and efficient tool for Wide Body and Narrow Body engines.







MAKRO AERO Quality System observes the following standards.

ISO 9001 / EN 12100:2010-11 / EN 60204-1 /  
EN 60204-62 / EN 13849-1 / EN 13857 / EN 349.

Technicians are certified for specialty applications.



makroaero

Companies that use our products in their maintenance activities





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