ModTruss  |  Modular Building Components

ModTruss is a tool that makes sense for the modern, nimble MRO. It is the perfect solution for an active aerospace maintenance and repair organization. Our products and accessories allow an MRO to create maintenance stands, tail docks, engine stands and much more. The value to ModTruss is that any structure can be redesigned to work with any size airframe using the same components.

With ModTruss’ infinite reconfigurability, it is the last structure you’ll ever have to buy.
FROM PALLET TO PLATFORM
ALL OF THESE STRUCTURES ARE MADE FROM THE SAME COMPONENTS!

IN AEROSPACE AND BEYOND
KEY FEATURES

• Adjustable height work platform
• Wide and secure stairs improve safety and fatigue
• Safety bumpers protect fuselage contact areas
• Easily configurable for multiple aircraft types
• Overhead crane for antenna positioning

ANTENNA GANTRY WITH CRANE STAND
A350 AIRCRAFT SHOWN
KEY FEATURES
• Work platform designed for engines secured to shop stands
• Separates into two sections for easy setup
• Reduces need for ladders
• Work-at-height solution
• Increased productivity through easy access
• Reduces employee fatigue and ladder-related injuries
• Reconfigurable for multiple application
NARROW BODY TAIL DOCK

Key Features

- Multi-level access
- Visual and audible warning systems
- Contour adjusting platforms
- Reconfigurable to future aircraft body style

ModTruss tail docks ensure your investment will be as timeless as the life of your organization.
MILITARY

KEY FEATURES

• Dual adjustable stairs
• Avionic bay access stands
• Leading and trailing edge stands
• Reduces fatigue and increases productivity
• Easily adjustable for multiple aircraft
MILITARY ACCESS STAND

KEY FEATURES

• Provides easy work-at-height access to all upper areas of aircraft
• Reduces technician fatigue
• Resolves many fall protection issues
• Comprised of several sub-platforms
• Wheels and levelers for ease of maneuverability
• Quick detach guardrails
• Edge protection on aircraft proximal areas
• Reconfigurable to accommodate wing-on or wing-off positions
REGIONAL FORWARD DOOR ACCESS STAND

KEY FEATURES
- **Recovered Space**: Unobstructed space below recovers square footage to be further utilized.
- **The extra wide code-compliant stairs increase comfort and reduce fatigue on technicians.**
This product is ideal for cabin maintenance.

KEY FEATURES
- Reduces forklift use
- Large volume carriage streamlines material handling
- Mates to other ModTruss platforms
- Duel ramps for rolling carts
KEY FEATURES

- Rear passenger door access platform
- Height adjustable with 12" vertical travel
- Secure locking access gate
- Self adjusting, self-leveling stairs
KEY FEATURES

- Segmented design for easy installation
- Extended platform for at-height material storage
- Extensive recovered space below platform area
- Multiple staircases
- Contoured to airframe

REGIONAL ACCESS PLATFORM
KEY FEATURES

• Structure separates laterally and encloses the tail structure
• Provides complete access to all areas of the horizontal and vertical stabilizers
• Code compliant stairs, guardrails and toe rails
KEY FEATURES
- Multi-level airframe access
- Removable guardrails
- Component-based access platform can be used as an assembly or separated into individual sections
- Easy access reduces technician fatigue
**KEY FEATURES**

- Ships unassembled on compact pallet
- For use in permanent locations or for field deployment
- Contouring platforms adjustable on-site
- Assembles with basic tools
STACKABLE SHORING BLOCKS

KEY FEATURES

• A rated safe support structure to hold aircraft during tear-down
• Reconfigurable for multiple airframes
• Easily maneuverable
• Securely suspends the fuselage for stable access
• Improvement over the current industry practice of stacking railroad ties
WIDE BODY

KEY FEATURES
- Ergonomic work-at-height platform
- Reduces step-ladder use
- Allows clearance for cowlings to be raised
- Large stairs provides easy access for technicians and components

ON-WING ENGINE MAINTENANCE STAND
787 AIRCRAFT SHOWN
WIDE BODY FORWARD DOOR MAINTENANCE STAND

KEY FEATURES
- Work-at-height staging area
- Code-compliance fixed stairs
- Casters for ease of movement
- Leveling jacks
- Recovered floor space

FORWARD DOOR MAINTENANCE STAND
767 AIRCRAFT SHOWN
KEY FEATURES
• Sturdy and level clearance beneath entire horizontal platform area
• Stand separates into three sections
• Space below stand is completely usable
• Removable rails allow aircraft and stand to be easily mated
• Two sets of stairs
The ModTruss TR series has 3 primary profiles: 3” | 6” | 12”
Available lengths: 3” - 120”
FINISHES & MATERIALS

TRADITIONAL FINISHES | Brushed Aluminum & Powder Coated
*Special coatings are available upon request

TRUSS MATERIAL | Steel & Aluminum
KEY FEATURES
• Ability to laminate itself
• Exponential load ratings & increases span capabilities

DEFINITION
• Lamination: Truss layers are bonded together
6” x 12” EXTRUSION SERIES

KEY FEATURES

- T-Slot combined within a structural beam
- Keyway (aka Keder Track or Screw-boss)
- Continuous length up to 40’
- 12 available slots
- Compatible with all ModTruss products
3" x 3" EXTRUSION SERIES

KEY FEATURES

- T-Slot combined within a structural beam
- Keyway (aka Keder Track or Screw-boss)
- Compatible with all ModTruss products
- Continuous length up to 40’
- 4 available slots

EXTRUSION
WASHER PLATES

Washer plates allow for localized reinforcement, keeping the self-weight of the structure to a minimum.

KEY FEATURE | Reinforces the tension elements of the connection
COMPATIBILITY | 3”, 6” & 12” TR & EX SERIES
JOIST HANGERS

**KEY FEATURE**
Integrates traditional lumber to the ModTruss product line

**COMPATIBILITY**
Mates seamlessly with both TR and EX product lines
KEY FEATURES
• Interfaces with traditional scaffolding
• Creates handrail structures for safety
• Lamp bars for use in lighting
HINGES

ModTruss 6" & 12" |
180° Hinge Assembly

ModTruss 6" & 12" |
Flat Hinge
UNIVERSAL MOUNT

KEY FEATURE | Flexible rigging and mounting
SLEEVE BLOCKS

KEY FEATURES
- Available sizes: 6”, 12” & 18”
- Allows for linear travel
- Fixed sleeve or fixed truss movement
- Sleeves can be doubled or stacked

TELESCOPIC TUBE

KEY FEATURE
Operated by:
- Hydraulics
- Ball-screw
- Gear
With the addition of these simple products your structure can become mobile.

**JACKS & WHEELS**

- Split design
- High capacity
- Omni directional loading

**TROLLEY**

**KEY FEATURES**

- Split design
- High capacity
- Omni directional loading
KEY FEATURES

- Fully Modular System
- ModStair tread accepts a 6" pipe adapter for adding additional handrails

ModStairs™ + ModStringer™ = Unlimited Configurations
Fully assembled, the ModPanel offers a 150lbs per square foot load rating.

KEY USES
- Floors
- Ceilings
- Walls

KEY FEATURES
- Aesthetically pleasing
- Top or side mount
- Exceeds permanent building code
- Brandable insert
KEY FEATURES

- Free standing or platform supported
- Adjustable angle
- Rolling or fixed
- Configurable in both length & width
- Anti-slip treads
- Stairs remain level at any height
MINI TOWER

KEY FEATURES

• Configurable base
• Compact rolling design
• Height adjustable legs
• Optional wheel kit

ASSEMBLY
STACKER BLOCKS

**Double Stacker Block**
MT-MH-SB-12-D

**Single Stacker Block**
MT-MH-SB-12-S

**KEY FEATURES**
- Safe & stable way to stack 12” truss series
- Creates a friction barrier & interlocks truss
- Lengthens the life & cosmetic longevity of truss
- Solves many shipping stability issues
FREQUENTLY ASKED QUESTIONS

Q: Is it reconfigurable?
A: The basis of ModTruss is that the product can be reused and reassembled over and over.

Q: What is its value?
A: Traditional one airframe welded structures were only as good as the job that they were assembled for. When you change fleet types with ModTruss, you do not need to throw away your platforms and docks. You simply reconfigure sections of your ModTruss structure to match your new aircraft.

Q: Accessories?
A: There is a whole range of accessories that compliment ModTruss such as; hinges, plates, stairs, handrails and decking.

Q: Bumpers?
A: We currently offer 7” half-round, high-impact foam bumpers from an established industry manufacturer.

Q: Do you have software that I can design with?
A: You can download a free copy of SketchUp Make (www.sketchup.com) to design your next ModTruss structure, as well as Solidworks and other CAD formats.

Q: Can I rent ModTruss?
A: Yes, we have a broad network of distributors across the United States and Europe that can help you with your ModTruss needs.

Q: Who assembles it?
A: ModTruss can assist with assembly and installation.