

# Air Master Systems

## *Titan Table Frame*

### Product Specifications

Version 1.0  
December 1, 2025

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#### Revision History

Revision - Date	Version	Revised By:	Description of / Reason for Revision:
10/24/2025	1.0	CS	Initial Draft of Specification
12/1/2025	1.0	DC	Approval of version 1.0

## SECTION 12 35 56 – TITAN TABLE FRAME AND ACCESSORIES

### PART 1 - DESCRIPTION OF WORK

#### 1.01 SUMMARY AND SCOPE

- A. Section Includes:
  - 1. Titan Table Frames
  - 2. Table Accessories
    - a. Shelving
    - b. Counter Mounted Cabinets (Hanging Cabinets)
    - c. Epoxy and phenolic worksurfaces
    - d. Standard casters and slides
    - e. Leveling casters
- B. Related sections:
  - 1. Division 12: Casework

#### 1.01 BASIS OF WORK

- A. Basis of design is Air Master Systems, Norton Shores, MI, as the standard of construction for Titan Table Frame Systems. The construction standards of the Air Master Systems Titan Table Frame product line shall provide the basis for quality and functional installation.
- B. Supply all equipment under this specification. Offering a product that differs in materials and construction from this specification requires written approval. This approval must be obtained at least seven (7) days prior to the proposal deadline
- C. General Contractors should obtain a list of approved table system manufacturers from the architect to prevent non-conformance with these specifications.
- D. The owner/architect reserves the right to reject qualified or alternate proposals and to award based on product value, where such action assures the owner of the greater integrity of the product.

#### 1.02 QUALITY ASSURANCE

- A. Source Limitations: Obtain table systems, including worktops, shelving, and accessories, from a single manufacturer through a single source.
- B. Product Standard: Comply with SEFA 8 Standards, "Laboratory Furniture-Casework, Shelving, and Tables-Recommended Practices."
- C. Manufacturer must have a 5-year warranty as listed on their website.
- D. Product must meet the Build America Buy American Act

## 1.03 REFERENCE STANDARDS

A. All casework, work surface and performance characteristics shall be in full compliance with SEFA (Scientific Equipment and Furniture Association) standards. At the owner's request, independent third-party testing must be submitted validating compliance and adherence to the architectural specifications.

1. SEFA 2 – Installation of Scientific Laboratory Furniture and Equipment.
2. SEFA 3 – Work Surfaces
3. SEFA 8 – Laboratory Furniture
4. SEFA 10 – Adaptable Systems

## PART 2: PRODUCTS

### 2.00 MATERIALS

A. Table Frame Structure: 16ga tubing

1. 2"x2": Table frame and legs
2. 1.75"x1.75": Telescoping legs

B. Frame Rails: 12ga

C. Work Surfaces: Phenolic resin, epoxy resin, or stainless steel.

### 2.01 FABRICATION

A. General: Complete assembly and finish work at the point of manufacture. Perform assembly on precision jigs to provide square units fully reinforced with angles, gussets, and channels, and integrally framed and welded to form a durable, structurally sound table.

B. Titan Table Frame (TF): Fully welded table frame.

1. Table leg configurations:
  - a. Adjustable height legs: designed to allow table height adjustment
  - b. Stationary height legs: designed for a fixed table height
  - c. Casters: standard and/or heavy-duty casters designed to fit a variety of mobile table applications
  - d. Glides: standard option for non-mobile tables. Designed to work on even and uneven surfaces through leveling capability
2. Table Size Configurations:
  - a. Table Width: configurable from 30" to 72" in 6" increments
  - b. Table Depth: configurable to either 30" or 36"
  - c. Table Frame Height: Fixed to 35" with stationary legs. Adjustable from 29" to 37" in 1" increments with adjustable legs

C. Shelving: Welded shelf body that mounts below tabletop.

1. Shelf works with both stationery and adjustable tables
2. Shelf Size Configurations:
  - a. Shelf Width: Configurable to 6" increments to match table width
  - b. Shelf Bracket Depth: 30", 36"

D. Counter Mounted Cabinets (Hanging Cabinets): See Section 12

## **2.02 PERFORMANCE REQUIREMENTS**

A. Structural requirements for Titan Table Frames and accessories: Provide TF's and accessories capable of withstanding the following loads without permanent deformation, excessive deflection, or binding of drawers and doors as per SEFA 10.

1. Bottom shelf: 400 lbs.
2. Table Frame: 1000 lbs. evenly distributed static load.
  - a. With standard casters: 750lb dynamic load
  - b. With leveling casters: 1000lb dynamic load

B. Structural requirements for Counter Mounted Cabinets (Hanging Cabinets): See Section 12 35 53

C. Work Surfaces and Paint: Provide surfaces meeting SEFA 3 Testing standards outlined in Section 12 35 53.

## **PART 3 – EXECUTION**

### **3.00 INSTALLATION**

A. Install, level, and true shims as required, using concealed shims. Where Titan TF Tables abut other finished work, apply filler strips and scribes for an accurate fit, with fasteners concealed where practical.

B. Secure mobile tables with locking casters in designated locations as outlined in the floor plan.

### **3.01 CLEANING AND PROTECTING**

A. Repair or remove and replace defective work as directed on completion of installation.

B. Clean finished surfaces, touch up as required, and remove or refinish damaged or soiled areas to match the original factory finish.

C. Protection: Cover work surfaces with 6-mil plastic or other suitable water-resistant covering. Tape to the underside of the work surface at a minimum of 48 inches in the center.

D. Install, level, and true shims as required, using concealed shims. Where Titan TF Tables abut other finished work, apply filler strips and scribes for an accurate fit, with fasteners concealed where practical.