



Titan Gear Locker (All-Welded or Knocked-Down Lockers) All-Welded Or Knocked-Down Lockers

Part 1 General

1.1 Section Includes: *(specify as much information as possible here)*

Standard: All-Welded Metal Lockers, Optional: Knocked-Down Metal Lockers

1.2 Related Sections:

List all sections of other work that relate to lockers such as: bases, metal fabrications, wall finishes, etc.

1.3 References:

List only those references that pertain to the material or installation standards as they pertain to this specific project

1.4 Submittals:

A. Submit under provisions of Section _____ *(List the Section pertaining to submittals)*

B. Product Data:

Manufacturer's data sheets on each locker type to be used including:

1. Preparation instruction and recommendations
2. Installation methods

C. Shop Drawings:

Provide drawings that detail the plan, section and elevation views of each locker type specified. Coordinate quantities, sizes, and locations as they pertain to the contract drawings. Indicate number of lockers within each bank.

D. Numbering:

Locker numbering sequence shall be provided by the approving authority and noted on the approved shop drawings.

E. Color Charts:

Provide two sets of manufacturer's standard color charts along with shop drawings.

1.5 Quality Assurance:

Provide each type of metal locker as produced by a single manufacturer, including necessary mounting accessories, fittings and fastenings.

1.6 Project Conditions:

- A. Store lockers and accessories in manufacturer's unopened packaging until ready for installation. Lockers shall be protected from damage during storage.
- B. Lockers shall not be delivered until building is enclosed and environmental conditions (temperature, humidity and ventilation) are internally controlled.

1.7 Warranty:

Lockers are covered against all defects in materials and workmanship excluding finish, damage resulting from deliberate destruction and vandalism under this section for a period of ten years (all-welded construction) or two years (knocked-down construction)

Part 2 - Products

2.1 Acceptable Manufacturers:

- A. Olympus Lockers & Storage Products Inc. – Titan Gear All-Welded Locker, Optional: Knocked-Down Locker
- B. Products by other manufactures may be approved provided they meet or exceed every aspect of this Section. Approval process shall be defined in the General Conditions Section

2.2 All-Welded or Knocked-Down Metal Lockers:

A. Tiers:

Number of Tiers/Openings: Single opening locker with no door

B. Sizes:

Width 15, 18, 24, or 36", Other _____ x Depth 15, 18, 24, or 36", Other _____ x Overall Height 60 or 72", Other _____

C. *Indicating quantities produces consistent pricing*

2.3 Fabrication:

A. Materials:

All parts to be made from prime grade mild cold rolled sheet steel (unless indicated differently below) free from surface imperfections, and capable of taking on a powder coat finish.

B. Finish:

Steel shall be cleaned with a phosphatizing and metal preparation process. Finish coat shall be a baked-on powder coat enamel with a 2-3 mil minimum thickness.

C. Color:

Locker finish color - Color selected from manufacturers standard offerings or custom color as desired

All locker parts inside and out to be painted the same color

Optional: Two Tone paint – doors painted separate color from frame and body

D. Construction:

Lockers to be 16 gauge, all-welded unit type (**WU**) assembled into banks of multiple lockers sharing a common back, tops, and bottoms. Quantity of lockers per bank dictated by size and project layout requirements. Knocked-Down (**KD**) unit type will have individual frame, top, bottom, back, and shelves with common intermediate uprights separating units. All-Welded or Internal Angle Iron construction locker body components are welded together to form a one piece rigid construction. Knocked-Down locker components will be mechanically fastened together with locking nuts and bolts or aluminum/stainless steel rivets.

1. Frame:

All Construction Styles: Frame members to be 16 gauge formed channel shapes. 16 gauge top and bottom cross frame members to form a square rigid assembly.

All-Welded Construction: Frame member channels shall form continuous door strikes on all 4 sides. Lockers without 4-sided door strike are not acceptable

Optional: 14 gauge steel

Steel Type: cold rolled mild steel, Optional galvannealed steel or 304 Stainless steel

2. Top:

This is the locker body top, not an accessory top such as slope top or boxed top.

All-Welded Construction: 16 gauge steel.

Knocked-Down Construction: 16 gauge steel with right angle return flange on all 4 sides.

All construction styles can be ventilated with perforations or louvers. Electrical conduit knock-out also available.

Optional: 14 gauge steel

Steel Type: cold rolled mild steel, Optional galvannealed steel or 304 Stainless steel

3. Bottom:

All-Welded Construction: 16 gauge steel. Single piece bottom.

Knocked-Down Construction: 16 gauge steel with right angle return flange on all four sides.

Optional: 14 gauge steel

Steel Type: Cold rolled mild steel, Optional Galvannealed steel or 304 Stainless steel

4. **Shelves:**
All-Welded Construction: 16 gauge steel – Welded to locker back and sides.
Knocked-Down Construction: 16 gauge steel. Single return flange on sides and back with double return flange on front.
Optional: 14 gauge steel
Steel Type: Cold rolled mild steel, Optional Galvannealed steel or 304 Stainless steel
5. **Sides:**
All Construction Styles: 16 gauge steel. Ventilation options available: Solid side panels, mini louvers, or perforations. Electrical conduit knock-out available.
Optional: 14 gauge steel
Steel Type: Cold rolled mild steel, Optional Galvannealed steel or 304 Stainless steel
6. **Backs:**
All-Welded Construction: 16 gauge steel.
Knocked-Down Construction: 16 gauge steel backs shall have right angle flange returns on both vertical edges to provide strength, rigidity and an assembly attachment point.
Electrical conduit knock-out available.
Optional: 14 gauge steel
Steel Type: Cold rolled mild steel, Optional Galvannealed steel or 304 Stainless steel
7. **Doors: Optional in any configuration**
All Construction Styles: All doors to be formed from one piece of 14 gauge steel with a single return on top and bottom along with a double return on vertical sides to form a channel. Channel shall be sufficient size to fully conceal lock bar. Face of doors to be solid panel or ventilated with diamond punched perforations, louvers or mini louvers, except where door stiffener is welded to the back side. All lockers shall include an 18 gauge steel, full height channel door stiffener welded to the inside of door face.
- Double doors are available on lockers 24" and greater. Configuration shall consist of one door secured its full length by the opposite side door when latched.
- Optional: 18 gauge steel, 2/3 height and 1/3 width door panel welded to inner face of door frame, creating box construction. Panel to be perforated with 3/16" peg-board style holes. Hooks for peg board supplied by others.
- Steel Type: Cold rolled mild steel. Optional Galvannealed or 304 stainless steel.
8. **Latch Mechanism:**
Choose from one of the following options:
a. Recessed Gravity lift (Three Point Latching System): *Only available in single door design*
Latch system contains a lock bar installed inside the formed channel of the door. Lock bar secures door closed via contact with three heavy gauge steel, welded latch hooks on doors over 42" and two latch hooks on doors under 42". Nylon guides and clips prevent metal to metal contact for quieter operation. Lock bar shall connect to 14 gauge steel handle finger lift which protrudes through a 20 gauge, stainless steel recessed cup attached to the door. The exposed portion of the finger lift shall be encased in molded ABS thermoplastic to prevent metal to metal contact. Latch system shall accept either a padlock or built-in combination style lock. Stainless steel recessed cup shall be deep enough to prevent any lock style from protruding beyond the door face. Box lockers shall be equipped with a padlock hasp and stainless steel strike plate with an integral handle pull.
- b. Single Point: *Only available in single door design*
An 11 gauge steel frame hook will be welded to door frame opposite from the hinge side. Frame hook will have a padlock hasp that protrudes through a slot in the stainless steel recessed cup. Frame hook shall be designed so that it will also accept the Master lock 1690 built-in combination lock.
- c. Three-Point/Three-Sided Cremone Style Latch: *Available in both single door or double door designs*
Steel handle welded to cremone type assembly with 3/8" diameter steel latching rods that engage top and bottom of locker frame. Center latch engages vertical door jamb providing 3 points of latching on 3 different sides.

E. **Optional Accessories:**

1. **Center Partition:**
16 gauge or 14 gauge steel partition securely attached to top shelf and bottom or lower shelf of locker.
2. **Full Width Shelves/Half Width Shelves:**

16 gauge or 14 gauge steel with return flange on all 4 sides, securely attached to locker sides and center partitions.

3. Document Sleeve:

16 gauge steel, 12" or 9 1/2" wide attached with supplied hardware.

4. Drawer Base:

16 or 14 gauge steel construction for base and drawer body. Drawer mounted on full extension, ball bearing glides rate at 250 lb capacity. Drawer front contains integral pull.

Ventilation options in face of drawer: louvers, perforations, mini louvers

Bottom base seat top to be constructed as follows (select one option). Seat to be securely attached to bottom base with concealed mechanical fasteners:

- a. Seats to be plastic laminate (color selected by architect) adhered to the following core material: 1 3/16" MDF. Seat edge will be fully surrounded on all four sides with 3 mm laminate edge material (color selected by architect).
- b. Butcher block laminated hardwood. 1 1/4" thick with rounded corners. Polyurethane applied to surface creating sealed, durable finish.

5. Base: (*Specify party responsible for bases*)

Choose one option below:

- a. 16 gauge steel, 4" zee style base
- b. 14 gauge steel, 4" zee style base
- c. 6" metal legs – No front and side close panels (standard)
Front and side closure panels (optional)
- d. Wood base by section: _____
- e. Concrete base by section: _____

If metal base is specified above, provide the following steel type:

Steel Type: Cold rolled mild, Optional Galvannealed or 304 Stainless steel

6. Accessory Tops:

Select one option from below:

- a. No top separate from locker body top
- b. Slope top: 20, 18, or 16 gauge steel
- c. Finished flat top: 20 or 16 gauge steel
- d. Boxed top: 16 gauge steel

Steel Type: Cold rolled mild, Optional Galvannealed or Stainless steel

7. Hooks:

Lockers to have 4 single prong hooks, one on each side with clothes rod attachments and 2 on the interior back. All hooks to be made of steel and zinc plated. Hook tips to be formed into a ball point. Hooks to be attached with 2 bolts or rivets. Other hook options and clothes rod removal (Optional)

8. Coat Rod:

Full width steel rod attached per manufacturer's recommendations. Optional: No coat rod.

9. Foot Locker:

Optional: Provide foot locker as described below

Foot locker shall provide for a full width and depth, lockable, enclosed space at the bottom portion of the locker. Foot locker shall include a 14 gauge steel top and front panel made of galvannealed steel. Top panel to act as a seat and will swing open for foot locker access. Seat top to be attached to locker via a 16 gauge continuous hinge to run full width of locker. Front panel to have right angle return flanges on all four sides to provide for attachment as well as support for top seat panel. The top of the front panel shall have an additional right angle return to form a channel shape for additional strength and rigidity. Front panel shall also provide ventilation via mini louvers stamped into front panel across entire surface area. Seat and front panel shall provide a padlock hasp locking mechanism to accept padlock for security.

10. Locks: (*Specify party responsible for locks and the type of lock desired*)

11. Exposed Ends:

Choose one option below:

- a. No ends separate from locker body side panel
- b. Boxed end panels: 16 ga. – No exposed fasteners

Steel Type: Cold rolled mild steel, Optional Galvannealed steel or Stainless steel

12. Trim and Filler Panels:

Provide concealed method of anchorage

Steel Type: Cold rolled mild steel, Optional Galvannealed steel or Stainless steel

Steel Gauge: 16, 20 or 24 gauge steel

13. Number Plates:

Each locker to have polished aluminum number plates attached with two rivets.

14. Security Lock Box:

14 gauge lockable door attached to 16 gauge door frames formed into a channel shape. Vertical frame members to have an additional return flange so that continuous vertical door strikes are created. Door shall be attached to the frame with 16 gauge continuous hinge. Door to have stainless steel recessed cup to prevent lock from protruding beyond face of door. Door is locked through a single point latch mechanism which accepts either a padlock or built-in combination lock.
Optional: padlock hasp and door pull in lieu of recessed cup.

15. Boot Tray

16. Hygiene Mirror

17. Specialty hook configurations for belt and equipment storage

Part 3 Execution

3.1 Installation:

Lockers to be installed in accordance with the manufacturer's approved drawings and assembly instructions. Install lockers plumb, level and flush. Anchor lockers to the floor and wall according to manufacturer recommendations. All fillers and sloped top to be installed with concealed fasteners. All joints at adjacent surfaces to be hairline or smaller.

3.2 Adjustment:

Adjust doors and latch mechanisms to operate as designed. Touch up scratches and abrasions with factory supplied paint to match original color(s) used on the lockers.

Note: Olympus Lockers and Storage Products, Inc. reserves the right to modify or change the design of locker components and/or specifications as required.