

# Modular Workstations

## Dimension 4™: Your Smart Choice for Versatile and Adaptable Workstations



### Building Blocks for Infinite Productivity Solutions

IAC's Dimension 4 modular technology solves your application needs today while setting the foundation for future expansion.

ASSEMBLY | MACHINE SHOPS  
AEROSPACE | BIOMEDICAL  
MATERIAL HANDLING  
SERVICE & REPAIR  
TELECOMMUNICATIONS  
PHARMACEUTICALS  
SEMICONDUCTOR  
TRANSPORTATION | GOVERNMENT  
LAN ENVIRONMENTS  
ENGINEERING  
AUTOMOTIVE | LABORATORY  
CLEANROOM | EDUCATION  
RESEARCH | UTILITIES  
MEDICAL | DEFENSE | OFFICES



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# Dimension 4

## Your Most **Versatile and Adaptable** Workstations



### Features

#### Modularity

Design a configuration that adapts to your application needs and/or space.

#### Flexibility

Workstation worksurfaces and accessories are independently adjustable to accommodate workers' physical and individual needs; especially useful for multiple shifts or future expansion and reconfiguration.

#### ESD Options

Static dissipative laminates, grounding systems and 180° rolled front edges ensure a static-safe working environment.

#### Ergonomic Design

Enhance adjustability with our ergonomically engineered accessory swing arms, footrests, specialty worksurfaces and other options.

#### U.L. Listed

D4 Starter and Adder units with integrated electrical systems, D4 lighting fixtures, and all D4 electrical channels are U.L. listed.

#### Efficiency Options

Conveyors, ball transfers and other accessories enhance efficiency and productivity.

IAC Dimension 4 (D4) Workstations are the most versatile, adaptable, flexible and useful workstations available in the market today. These U.L. listed workstations easily expand to meet your growing needs through IAC's intelligent modular technology, which enables you to reconfigure your stations at any time. The basic D4 unit (Single or Double Sided Starter Unit) can be used as a standalone configuration or combine with a D4 "adder" unit (Single or Double Sided Adder Unit). The D4's modular technology solves your application needs today while setting the foundation for future expansion.

All IAC products are ergonomically designed (combining ergonomics and lean manufacturing standards) to ensure maximum worker safety, improved efficiency and greater productivity. Each D4 station is fully adjustable, providing you with the ability to customize your station with footrests, shelving, worksurface height adjustments and other components for personal comfort and efficiency.

The standard Dimension 4 is supplied with aluminum uprights and a 180° rolled front edge worksurface – also available in ESD.

# Starter / Adders



Dimension 4 modularity is based on the Starter/Adder concept, where the Starter is a complete single or double sided workstation, and serves as the anchor of the modular chain. A D4 Starter unit can stand alone as a fully functional workstation. Adder units, which have everything that Starter units do minus one upright, are the modular “links” used to create an endless variety of high-efficiency production lines. Adders are also available as single or double sided units. There are many workstation heights, depths and lengths to choose from, along with a huge selection of storage and productivity options. Dimension 4 workstations embrace ergonomic design and lean manufacturing standards. There really is no limit to the ways you can improve your production or assembly lines with the Dimension 4.

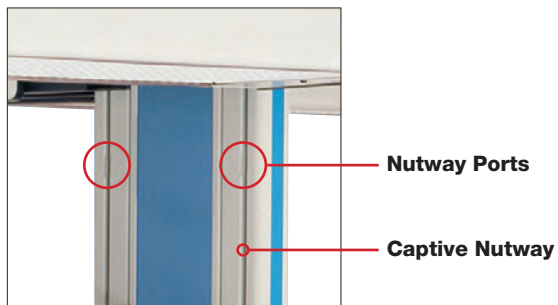


# Endless Configurations



*Dimension 4 Workstations can be configured in an almost limitless fashion. Combine with corner and double-sided Adder units to create U-shaped manufacturing and assembly cells — one of the most effective shapes for space conservancy and manufacturing productivity.*

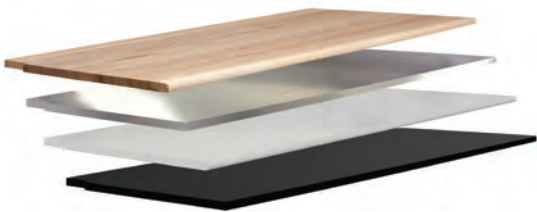
## Dimension 4 Uprights



- The D4 Uprights have a unique two-piece extruded aluminum construction made of T5 Aluminum alloy with thick wall construction and heavy gauge connector brackets that provide rigid connections between upright extrusions.
- The uprights include a captive nutway that provides infinite adjustment points for accessories with milled nutway ports that facilitate easy assembly and accessory add-on at a later date.
- Each upright is securely bolted to 2" x 3" aluminum bases (foot) that include floor glides to provide workstation leveling adjustments.
- The uprights include a slide-in accent/trim strip which contrast color between the uprights and the bench. These trim panels are laminate. Plastic top and end caps are included with the uprights to provide a finished appearance.
- There is a 1-3/4" internal clearance which allows space for hidden air, data cables and other utilities that are common for vertical uprights.

**A.** Double-Sided Upright. **B.** Single-Sided Upright  
**C.** Single-Sided Upright with Accent Strip Removed to expose Power Distribution System II (PDS II)

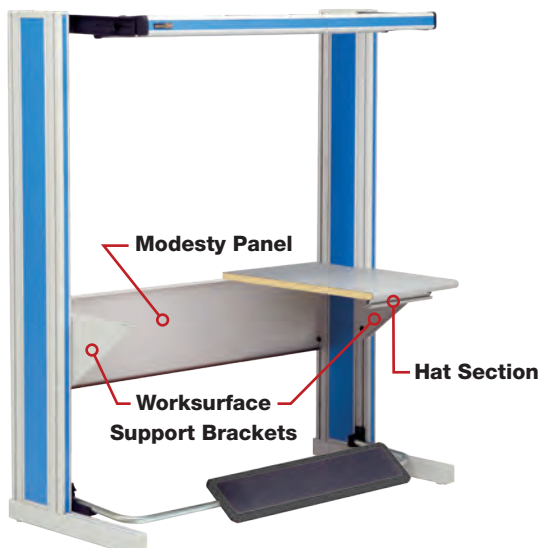
## Worksurface Tops



Top to Bottom: Maple Block; Stainless Steel; Standard or ESD Laminate; Lab top such as Epoxy or Trespa; plus others.

- Worksurfaces include lengths of 48", 60" and 72" with standard depths of 30" and 36". Each configuration supports 500 lbs. when evenly distributed.
- The overall bench length for this category is approximately 2" longer than the work surface top; this is due to the upright width.
- Laminated tops are 1-1/4" thick. They are comprised of 1-3/16" commercial grade particle board and postform grade melamine plastic laminate that is applied under pressure; 180° rolled front edge is standard.
- All worksurfaces include pre-installed, metal threaded inserts for strength and durability. They ensure easy assembly and future retrofitting.

## Frame Assembly



- Single sided stations have a heavy gauge 13" high modesty panel that attaches to each upright; this provides rigid and square foundation for the bench.
- Each configuration has a pair of heavy gauge formed steel work surface top brackets and two extruded aluminum work surface support "hat sections". The hat sections provide lateral support and the future addition of suspended drawers and cabinets along with other accessories.
- The captive square head bolt in hat section allows drawers to be mounted anywhere along the hat section. The frame color matches paint selection for the uprights.

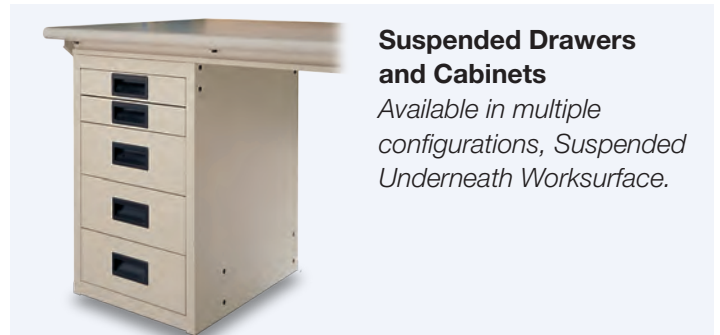
## Options and Accessories

Customize your Dimension 4 Workstation with a broad variety of options and accessories. This glimpse at D4 accessories is just the tip of the iceberg. Dimension 4 workstations are the most versatile and highly configurable workstations available.



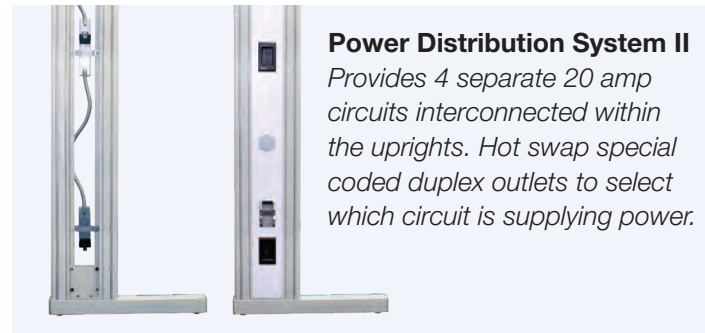
### Overhead Storage

*Available in multiple dimensions, attach to upright.*



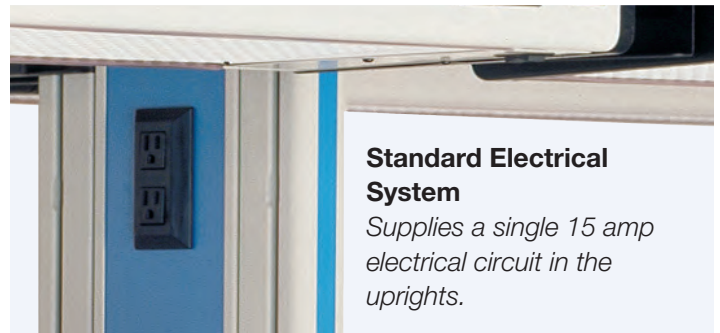
### Suspended Drawers and Cabinets

*Available in multiple configurations, Suspended Underneath Worksurface.*



### Power Distribution System II

*Provides 4 separate 20 amp circuits interconnected within the uprights. Hot swap special coded duplex outlets to select which circuit is supplying power.*



### Standard Electrical System

*Supplies a single 15 amp electrical circuit in the uprights.*



### Adjustable Height Worksurfaces

*Motorized and Hand Crank Available.*



### Clip Rack System

*Provides a wide variety of 1/2 length productivity and storage accessories on a clip system.*



### D4 Corner

*Corner worksurfaces and shelves complete your D4 layout.*



### Air Line Interconnects

*D4 systems allow the easy integration of air systems.*



### Utility Ducts and Troughs

*Completely enclose wires and hoses for maximum protection and a finished appearance.*



### Grommets Cutouts

*Cutouts available in both worksurface and upright.*

# Dimension 4 Specifications

## Design

- Complete workstation is U.L. Listed (U.L. 1286 / File lbs. E113928)
- Ergonomic Design
  - Fully height adjustable
  - Full complement of ergonomic accessories
- Modular and flexible in design and concept (Flexibility and Versatility)
  - Starters and Adders
  - Single and Double Sided
  - Allows Custom Configurations
  - Ideally suited for in-line applications
    - Cost effective and space saving when sharing common uprights
- Can be used in stand-alone applications
- Build-a-bench concept
  - Basic unit consists of 2 uprights, worksurface assembly, support bracket and hardware
- Total single sided workstation capacity is 750 lbs. static load, evenly distributed
  - Heavy-duty upgrade versions available

## Uprights

- Construction
  - Unique two-piece extruded 60-63 T5 aluminum alloy construction
  - Heavy gauge connector brackets provide rigid connections between upright extrusions Standard heights available:
- Standard Heights: 36", 48", 60", 72", 84"
- 12" deep upright
  - Slide-in accent/trim strips provide contrast color in uprights
  - Trim panels are laminate - exception: SES (Standard Electrical System) uses a metal trim panel for the electrical components
  - 1-3/4" internal clearance allows for hidden air, data cables, other utilities within upright
  - Integrated electrical systems available - See PDS II (Power Distribution System II) and SES (Standard Electrical System) sections
- Captive nutway in aluminum provides infinite adjustment points for accessories
  - Milled ports in nutway provide easy assembly and accessory add-on at a later date
- Uprights securely bolted to 2" x 3" aluminum base (foot)
  - Floor glides provide workstation leveling adjustment
- Plastic top and end caps provide finished appearance

## Worksurface Top

- Standard Lengths: 48", 60", 72"
  - Overall bench length is 2" longer than worksurface
- Standard Depths: 30", 36"
- Standard Thickness: 1-1/4"
  - For Standard and ESD laminated tops
    - 1-3/16" commercial grade particle board
    - Postform grade melamine plastic laminate applied under pressure
    - 180 degree rolled front edge is standard
  - Other materials vary; consult factory

- Single sided or double sided
- Supports 500 lbs. evenly distributed static load
  - Heavy-duty frame available
- ESD Worksurface
  - ESD properties are tested and results logged at the factory
  - Includes 2 stainless steel ground bolts, 1 at each rear corner
  - Includes 10' ground cord
- Edge aligns to the middle of the upright
  - When used in starter and adder in-line stations, worksurface edges are flush together
- Supplied with metal threaded inserts for easy, durable assembly and retrofit

## Worksurface Frame Assembly

- Single sided stations feature a heavy gauge 13" H modesty panel that attaches to each upright
  - Provides rigid and square foundation for the bench
- Pair of heavy gauge formed steel worksurface brackets
- Two extruded aluminum worksurface support "hat sections"
  - Provide lateral support
  - Provide support for suspended drawers and cabinets
  - Captive square head bolt in hat section allows drawers to be mounted anywhere along the hat section
  - Front edge of hat section extrusion also serves as a parts cup rail
- Manual height adjustment is standard
- Hydraulic hand crank and motorized height adjustment is an option
  - Adjustability range can be changed when an application changes
  - Adjustable height options can be retrofitted to standard D4 station in the field
- Infinitely positionable on the uprights using 5/16" square head bolts in the captive nutway
- Worksurface bolts to brackets and modesty panel using 1/4" bolts
  - Bolt sizes refer to thread diameter
- Frame color matches paint selection for the uprights

## Full Length Lighting Fixtures

- Standard Lengths: 48", 60", 72"
- U.L. Listed (U.L. 153 / File lbs. E162554)
- Standard Fixture
  - Two tube fixture
  - Ideal for environments with good ambient light and when application requires 100 to 110 foot candles of cool light
- High-Output Fixture
  - Two tube fixture
  - Increases the foot candle output approximately 20% depending on diffuser
  - Ideal for environments with low ambient light

- 3-Tube Fixture
  - 3-Tube fixture can use 1, 2, or all 3 tubes at one time via selector switch.
  - Up to 195 foot candles of light depending on diffuser
  - Light tubes stacked in the center of the fixture, not end to end
- Prismatic lens diffuser included with the standard light fixture
- Direct egg-crate diffuser (DOL) available
  - Directs light more vertically toward the worksurface than the prismatic
- Parabolic egg-crate diffuser available
  - Directs light vertically even more toward the workstation than the DOL
- Light tubes NOT included
- Suggested Light Tubes
  - Fluorescent Tubes
    - 48" Fixture: F25 RS T8 SP41 (or SPX41)
    - 60 or 72" Fixture: F32 RS T8 SP41 (or SPX41)
  - LED Tubes
    - 48" Fixture: 36" L T8-12W-NWC 120-277V
    - 60" Fixture: 48" L T8-17W-NWC 120V-277V
    - 72" Fixture: 60" L T8-19W-NWC 120-277V
- Electronic Ballast
  - Operates above 20,000 Hz and eliminates 60 cycle hum and flicker
- Adjustability
  - Up/down within infinite upright design
  - In/out within slotted brackets
  - Angle (tilts on axis) - for optimum light direction
- Heavy-duty gauge brackets support the light fixture
- Hand knobs lock light fixture at desired angle
- Molded Power Cord
  - 8' and 2' cord lengths available
  - Specify 2' cords for PDS II and SES applications
- Convenient power switch at front of light

## Full Length Tool Trolley

- Lengths: 48", 60", 72"
- Provides ready access to electric and pneumatic tools
  - Removes tools from the worksurface
  - Reduces awkward and forceful exertions
- Aluminum Extrusion Channel
  - Includes one slide tool hanger
    - Additional hangers available
- Heavy-gauge textured black brackets
  - Adjusts up/down within infinite upright design
  - Trolley extrusion adjusts in/out within slotted brackets
- Heavy-Duty Tool Trolley uses a trolley "car"
  - Car rides in formed unistrut channel instead of aluminum extrusion
  - Additional cars available
- Painted same color as bench

## Shelving

- U.L. Listed (U.L. 1286 / File E113928)
- Provides storage area off the worksurface
  - Can be positioned anywhere between the uprights

- Depths: 10", 12", 14", 18"
- Lengths: 36", 48", 60", 72"
- Heavy-gauge formed steel shelf with lip
  - 75 lbs. standard capacity, 150 lbs. heavy-duty also available
  - Shelf lip acts as a parts cup rail
- Heavy-gauge textured black painted brackets
  - Angle adjustable from 0-45 degrees
  - Depth adjustable
- Shelf can be mounted in front or back nutway for further positioning options
  - Four brackets included with 18" D shelf for mounting in both nutways
- Standard or ESD laminated surface
  - ESD Shelf includes snap and coiled jumper cord
- Open wire shelf also available
  - Depths are 10", 14", and 18" only. Lengths are 48", 60", and 72"
  - Ideal for cleanroom applications to Class 100

### Electrical Channel

- U.L. Listed (U.L. 163 / File lbs. E173487)
- Lengths: 36", 48", 60", 72"
- 36" channel includes 2 duplex outlets, 15 Amp Rating at 120VAC
- 48", 60", and 72" include three duplex outlets, 15 Amp Rating at 120VAC
  - 20 Amp version also available
- Power switch and pilot light included
- 8' Molded power cord
- Aluminum channel mounts to uprights with heavy-gauge brackets
  - Height and depth adjustable
- Suspended between uprights, not mounted to worksurface
- Positional where electrical access is needed
  - At worksurface
  - Above or below worksurface & shelving

### SES (Standard Electrical System) Electrical

- Best suited for stand-alone applications
  - Also suited for in-line applications with a separate power source for each station
- Integrates power into the workstation
- Supplies additional outlets located in the uprights
- Single 15 Amp, 120VAC circuit
- Each workstation will have 4 outlets located on the inside trim panel of each upright
  - Total 8 outlets in duplex configuration per bench
  - Same for single sided and double sided applications
  - Available on 60", 72", and 84" uprights
- Uprights are interconnected below worksurface with molded interconnect cord
- Each bench includes its own 15 Amp, 8' molded power cord
  - Conveniently plugs into any wall outlet
- All SES components plug together for easy assembly
  - No special wiring to be done by electricians
- When using in-line bench configurations:
  - Adder upright has outlets on both sides
  - Each side of adder upright is NOT connected to the other side
- 48" H uprights only have 1 duplex per upright above the worksurface

- SES is not available for 36" uprights
- Duplex configured outlets are not flush with the trim panel
  - Duplexes may affect location of accessories
- Accent/Trim panel is metal

### PDS II (Power Distribution System II) Electrical

- Best suited for in-line applications
- U.L. Listed as part of workstation (U.L. 1286 / File lbs. E113928)
- Modular in design
  - Able to conform to changing electrical requirements
- Integrates 4 independent 20 Amp circuits into the workstation
  - Totalling 80 Amps of power per PDS II power-up connection
- Four 15-Amp duplexes above the worksurface
  - Two on each side of 60", 72", and 84" uprights
  - One on each side of 48" uprights
  - Not available on 36" uprights
- Uprights are interconnected below worksurface with molded interconnect cord
- Each duplex receptacle numbered "1", "2", "3", and "4"
  - Numbered receptacle only accesses that numbered circuit
- Duplex configured outlets are flush with the trim panel
- 7-wire power-up cable must be ordered separately
  - Should be hard-wired by qualified personnel
  - Hard-wired into facility electrical system
  - One "drop" per 80 Amps of electrical usage
  - Less burdened cost of installation in many cases
- Any or all circuits can be turned off at the power source
  - Allows some circuits to be on or off at any time
- Same for single sided or double sided stations
- PDS II pass-through blocks bolt inside of uprights
- Accent/Trim panel is laminate

### Parts Cup Stringers

- Lengths: 48", 60", 72"
- Accepts industry standard parts cups (Lewis, Akro-Mils, Olympic, Buckhorn, etc.)
- Heavy-gauge formed steel rail supported by heavy-gauge mounting brackets
- Powder-coated metal surface - Standard or ESD
  - Standard version is textured black painted
  - ESD rail includes ESD (smooth) black paint, ground snap, and coiled jumper cord
- Height adjustable within infinite upright slots
- Depth adjustable within slotted brackets
- Easy twist-knob adjustment
- Accepts other bin rail options (tool, kim wipe, solder, bottle holders, etc.)
- Ergonomic parts cup rail available
  - Heavy-duty construction using IAC universal extruded aluminum rail
  - Offers all of the above adjustability features
  - Adds angle adjustment capability via Phillips set screws on side of rail
  - Tilts bins at an ergonomic angle for ease of reach and parts access

### Standard Footrest

- Ergonomic benefits for sitting and standing applications
  - Helps to reduce worker stress
- Lengths: 48", 60", 72"
- 1" bright zinc plated "U" shaped tube
- Heavy-gauge textured black painted brackets
- Mounts between the uprights
  - Easy retrofit
  - Manually adjusts up/down and in/out
- Supports Ergo Foot Pan

### Ergo Footrest

- Ergonomic benefits for sitting and standing applications
  - Helps to reduce worker stress
- Lengths: 48", 60", 72"
- 1" bright zinc plated "U" shaped tube
- Unique 14-gauge ratcheting textured black painted brackets
  - Click-latch rollers at each end
- Mounts between the uprights
  - Easy retrofit
- "Hands-Free" height adjustment (up/down)
  - 9" height adjustment range
- Provides optimum comfort angle
- Manually adjusts in and out
- Supports Ergo Foot Pan
- Promotes good housekeeping – can be raised for cleaning under the bench

### Ergo Foot Pan

- Ergonomic benefits for sitting and standing applications
  - Assures proper body weight distribution
  - Provides non-slip platform for use
- Attaches to standard or ergo footrest tube using plastic C-clamps
- Adjustable angle provides optimum comfort
- 16-gauge formed pan
  - Dimensions: 8" H x 36" L (24" L available)
- Painted textured black
- Rounded corners provide safe edges for operators

### Free Standing Footrest

- Provides a stable floor for seated or standing workers
- Can be moved where needed
- Same hands-free operation as ergo footrest
- Adjusts from 2.75" to 11.5" from floor
- Heavy-gauge base measures 15" x 28.5" – Includes non-skid rubber feet
- Pan has non-skid surface
- Pan tilts in continuous movement for optimum comfort angle
- Textured black painted finish
- Rounded corners provide safe edges for operators

### Suspended Drawers & Cabinets

- All metal construction using 20, 16, and 14-gauge formed steel
- Safety recessed handles on all drawers and cabinets
- Full extension "Easy Close" slides
  - Metal roller ball bearings
  - 100 lbs. full extension rating, spring loaded "easy close" action
  - Full cabinets are easily reconfigured with removable slides
- Mounts anywhere along hat sections below worksurface (left/right/center)
- Provides functional and cost effective storage below the worksurface
- Single drawers are stackable for various configurations
- Single drawers include lock cylinder
- Optional locking mechanism available for most suspended cabinets
- Specify whether locks are to be keyed alike or differently

### Flipper Door Cabinets

- Lengths: 48", 60", and 72"
- Single Door, Double Door, and Sliding Door configurations available
- All metal construction using 20, 16, and 14-heavy gauge formed steel
- Ideal for storage off the worksurface
- Flipper door includes lock(s)
  - Storage for books, binders, instruments, and test equipment
  - Locks can be keyed to match suspended drawers and cabinets
- Outside Dimensions: 16" H x 14" D x L
- Inside usable space: 12.5" H x 13.5" D x L
- Door slides up and out of the way (side to side on sliding door models)
- Two recessed handles on door for easy use
- Can be positioned anywhere along the uprights
- Painted all standard colors

### Corner Worksurface & Shelf Assemblies

- Corner tops and shelves available in radius and square back treatments
- Available in standard and ESD laminate
- ESD models include 2 stainless steel ground studs and 10' ground cord
- Corner tops supported by heavy-gauge support brackets that are adjustable the same as the worksurfaces
- Corner shelves supported by heavy-gauge shelf brackets that attach to the uprights and are adjustable up and down
- Radius corner tops have a 150 lbs. weight capacity, evenly distributed
- Radius corner shelves have a 75 lbs. weight capacity, evenly distributed
- Square corner tops and shelves include an adjustable rear tube support
- Square corner tops have a 350 lbs. weight capacity, evenly distributed

## More from IAC – Designed for Work. Built to Last.

Pro Series



Smart Mobile Workstations



Workmaster™ Workbenches



Workmaster™ Storage Cabinets



IAC Utility and Parts Carts



Packaging Tables and Stations



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