ww.jha-techspace.com

Lab Bench Design Guide and Accessory List

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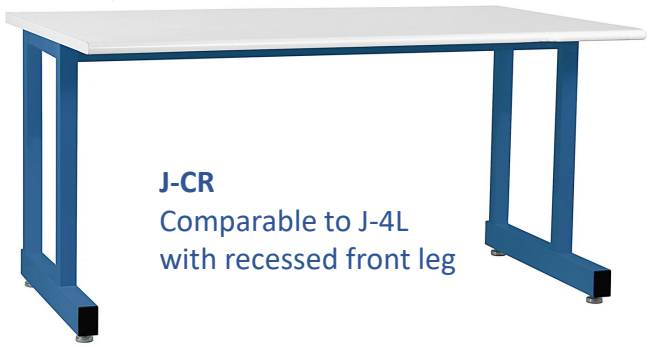
JHA Techspace offers six standard models. Each 'begins' with an impressively robust powder coated steel frame structure and a worktop optimal for your application.

- Each is offered in a full range of sizes. Non-standard dimensions and specials are easily accommodated.
- A comprehensive selection of add-on accessories is offered and listed in this guide

- This combination allows the configuration of optimal, high-value* solutions in the functional categories of lab workstations, tech benches, science tables, assembly benches, LAN workstations, industrial benches, etc.

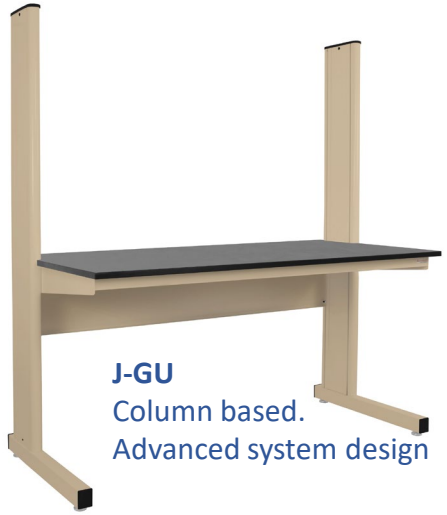
* We don't use this term lightly. See Value Explanation next page.

J-4L
Most adaptable
& widely specified



J-CR
Comparable to J-4L
with recessed front leg

J-4E
Utility model,
industrial, robust



J-GU
Column based.
Advanced system design

J-AA
Hydraulic lift J-4L
with electric, digital or
manual control

J-4H
The 'beast', ultra
robust, high load

JHA Techspace – Value Advantages

- These standard models come with an unconditional 25-year warranty (document/details on our website.)
  This is possible because of high product quality and rarity of defects or failures.

- We're dedicated to minimizing any hassles for our customers in the event of receiveing a freight damaged product,
  or if there is any post-delivery product problem over the warranty life of the product. **Any damaged or defective**
  parts are simply replaced - asap - with no cost, including replacement shipping.

- **We do not require customers to return a defective or freight damaged product.** Nor is there any need to fill out
  paperwork or to hassle with shipping companies. We handle everything. Promptly.

- Our pricing is extremely competitive. By that we mean that history has demonstrated the likelihood
  of similar products from competitors costing more.

- **Value is not just in the price of the product.**
  It's industry standard to ship lab benches, with their accessories, "K.D." (knocked down) due to freight
  costs and logistical factors. Assembly/installation service is a separate line-item expense, whether provided
  by our expert contractors, your customer contractor or by in-house personnel. Our benches have been carefully
  and specifically designed to be the easiest and fastest to assemble of any similar products on the market.
  (We have documentation available on that) Cutting labor time on this aspect of a project can result in
  substantial cost savings. (In cases where shipping pre-assembled benches makes sense for our customers , we're happy to oblige)

- We're very "custom-friendly", saving our customers time and trouble in defining, sourcing and delivering non-standard,
  complicated or unusual solutions.

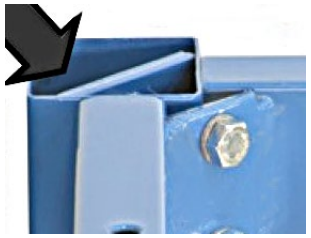
- It's fairly common for our lead times to be the shortest available.

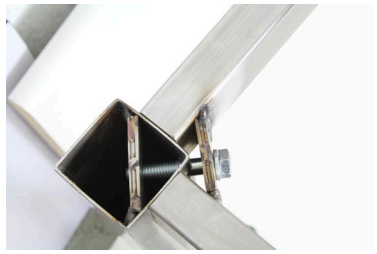
J-4L & J-CR SERIES'

Good to Know: ***Robust and Quickest Assembly***

- Designed and manufactured utilizing 16 ga. 2" x 2" tube steel legs and upright posts. Some companies use weaker 1.5" x 1.5" tube or Unistrut which means reduced load capacities and less appealing aesthetics. *Good to know if you're comparing.*

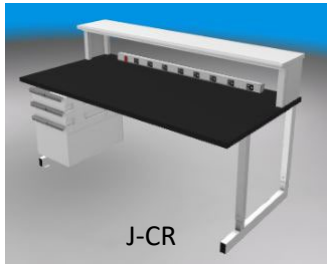
- Uniquely reenforced legs. A 0.25" thick steel plate is welded diagonally within each leg. This adds powerfully to the frame load capacity, which is tested to over 6,000 lbs.





- Worktop steel support frames are fabricated with 1" x 2" 16 ga. welded steel tubing
- Worktop assemblies shipped fully assembled with the worktop pre-attached to its support frame
- Result is extremely fast assembly. Leg frames set into each side and are secured with provided bolts in less than 5 min.
- "L" & "U" unique designs maximize open leg space
- All worksurfaces include bottom side reinforcement.
- HPL (laminate) worktops include aluminum moisture barrier

J-4L



J-CR

J-4L

J-4L

J-CR

J-4L

Standard Sizes:

- Widths (length): 24", 36", 48", 60", 72", 84", 96", 120"
- Depths: 24", 30", 36", 42", 48"
- Heights: 28", 30", 32", 34", 36", 42" (or special)
- Non-standard sizes easily accommodated
- Double sided, Corners, 'L', 'U' and 'T' configurations
- Widths (lengths) over 8' require middle leg support
- Available leg inserts provide 6" or 12" height adjustment range in 2" increments

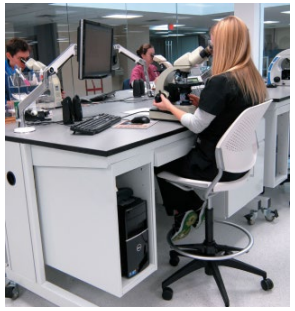
Some Key Specification Considerations:

- Worksurface material optimal for usage? Static control ? Heat or chemicals?
- If bench has power, where will it plug in? Plug type? Amperage? How many outlets needed?
- Height adjust? Leg extensions help but bench has to be lifted or turned on its' side. Hydraulic lift? ($$)
- Mobility? Adding casters later can be done but will need to replace legs unless specifically planned in advance.
- Starting with no upper shelving or other above worksurface add-ons?....but may want to add later? Be sure to order bench prepped for accepting uprights ...that does NOT come standard.
- Plan to add suspended drawers/cabs later? Be sure to order bench prepped for that (no charge).
- Be sure to review all available accessories

J-GU SERIES

Good to Know: ***Expansive Lab Workstation 'System' Performance***

- 'Starter-Adder' design. Free standing unit includes (2) columns. 'Adder' bench includes (1) column and shares the other with its neighbor in the row – min. of (2)
- Worksurfaces, shelves and all accessories that attach between columns are adjustable to any location....infinite adjustment rather than incremental.
- Double-sided model includes worksurface(s) pre-attached to double-depth support frame, which installs between (2) columns. This design delivers the lowest cost per station.
- Columns have removable panels and can function as service chases for various utilities, including electrical, plumbing, air, etc.
- Fixtures (power outlets, gas valves, CDA connections, etc.) install in column panels.
- Accepts a full range of accessories comparable to those of the J-4L and the J-CR. Shelves, drawers, lighting, monitor arms, power, etc. See accessories in this doc.
- All worksurfaces include bottom side reinforcement.
- HPL (laminate) worktops include aluminum moisture barrier



Standard Sizes:

- Widths (length): 24", 36", 48", 60", 72" between columns. Connected rows of any length.
- Depths: 24", 30", 36". Double sided models 2X those.
- Heights: Worksurfaces, suspended drawers, shelves, task lights, etc. can adjust 'infinitely' between columns to max column height of 72"
- Standard column heights: 30, 32", 36", 42", 46", 48", 52", 60", 72". Non-standards available.

Some Key Specification Considerations:

- Worksurface material optimal for usage? Static control ? Heat or chemicals?
- Save $ with connected rows, or flexibility of free-standing?
- If bench has power, where will it plug in? Plug type? Amperage? How many outlets needed?
- Plan to add suspended drawers/cabs later? Be sure to order bench prepped for that (no charge).
- Utility integration? Consult with us.
- Be sure to review all available add-on accessories

Advanced Lab/Tech Workbenches - DESIGN GUIDE

J-4E ECONOMY SERIES

Good to Know: Comes with height adjustable legs, 30” - 36” range

- Heavy duty 16 ga. channel steel frame/legs
- Low-cost solution
- Frame tested for 1,200 lbs.
- Rear channel stabilizer bar included
- Full selection of our high-quality worktops
- Wide range of add-on accessories, including drawers casters, monitor arms, etc. Most are as per those listed in this guide but there are a few variations to adapt to the different frame structure. Contact us for details.
- 8’ benches have 66% more steel and 120” have 270% more steel in the understructure
- Hydraulic lift option. See JA-E series on website.
- All worksurfaces include bottom side reinforcement.
- HPL (laminate) worktops include aluminum moisture barrier
- Quickest, easiest assembly

Standard Sizes:

- Widths (length): 48”, 60”, 72”, 96”, 120”. A middle leg is included with 96” & 120” models. With upper shelves, a middle upright will also be added
- Depths: 24”, 30”, 36”
- Height: 30”, adjustable to 32”, 34”, 36”
- Limited customization

Some Key Specification Considerations:

- Worksurface material optimal for usage? Static control? Heat or chemicals?
- If bench has power, where will it plug in? Plug type? Amperage? How many outlets needed?
- Plan to add suspended drawers/cabs later? Be sure to order bench prepped for that (no charge).
- Be sure to review all available add-on accessories

Advanced Lab/Tech Workbenches - DESIGN GUIDE

J-4H SERIES

Good to Know: Frame structure tested to 20K lbs.

- Extremely Heavy duty 14 ga. tube steel frame/legs
- Legs are re-enforced, 2” x 3”
- Optimal design for many industrial, hard use and high weight load applications.
- Laminate worktops are special thickness of 1.75”. Full selection of our high-quality worktops.
- Worktops typical with the J-4H are maple butcherblock, stainless steel and HPL
- Wide range of add-on accessories, including drawers casters, monitor arms, etc. Most are as per those listed in this guide but there are a few variations to adapt to the different frame structure. Contact us for details.
- Worktop assemblies shipped fully assembled with the worktop pre-attached to its support frame
- Result is extremely fast assembly. Leg frames set into each side and are secured with provided bolts in less than 5 min.
- All worksurfaces include bottom side reinforcement.
- HPL (laminate) worktops include aluminum moisture barrier

Standard Sizes:

- Widths (length): 24”, 30”, 36” 48”, 60”, 72”, 96”, 120”. A middle leg is included with 96” & 120” models. With upper shelves, a middle upright will also be added
- Depths: 24”, 30”, 36”, 48”
- Height: 30”, 36” or special
- Limited customization

Key Specification Considerations:

- Worksurface material optimal for usage? Static control? Heat or chemicals?
- If bench has power, where will it plug in? Plug type? Amperage? How many outlets needed?
- Plan to add suspended drawers/cabs later? Be sure to order bench prepped for that (no charge).
- Be sure to review all available add-on accessories

ADJUSTABLE ACCESSORIES

- **Uprights:**

For support and adjustability of multiple accessories. Heavy gauge 2” x 2” steel tube pair, double bolted to rear of bench legs to support our adjustable ‘upper’ accessories, including shelves, overhead task lights, power strips, bin rails and other components shown in this guide. Standard upright heights extend above the worksurface to 24”, 36”, or 48”. Non-standard heights are easily accommodated. Uprights have dual slotted columns to accept accessory support brackets, allowing non-tool installation and adjustability in 1” increments. NOTE: A middle upright is recommended for benches >72” and may be included for extra high weight loads.

- **Adjustable Shelves:**

Offered in high pressure laminate (HPL) laminate, ESD laminate, phenolic resin, powder coated steel, stainless steel, cleanroom HPL, solid maple or wire. Includes brackets for attachment to uprights, shown at right. Shelves match width of bench worksurfaces or may be specified ‘split’ with middle upright and separate adjustability on left /right sides. Round, & square front edge options.

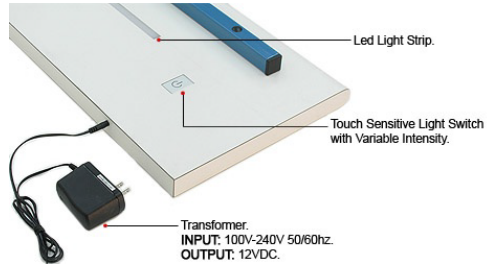
- Shelf depths: 12”, 15”, 18”, 24” or special.
- Shelf heights: 1” for painted steel and stainless steel, 0.75” or 1” for phenolic resin. 1.125” for all HPL shelves.

NOTE: Our HPL and phenolic resin shelves are reinforced with 1” x 1” steel support bar on the underside to enhance load capacity. Steel and stainless steel included welded ‘hat channel’ under supports. Go to **www.jha-techspace** for more info.

Steel front & rear and side lips, as well as book-end edges are available options – for shelves and worktops

- **Undershelf LED light:**

Available on standard & ESD HPL laminate shelves. Integrated, flush with bottom. Light strips approx. 5” less then overall shelf length. Brightness control levels with standard dimmer switch. Memory setting.

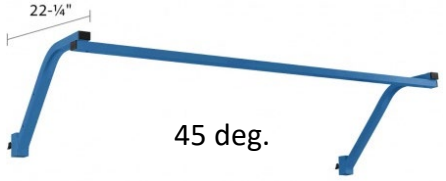


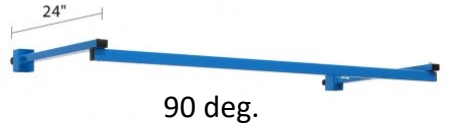
- **Overhead LED Task Light:**

Our rugged LED fixture includes a powder coated aluminum housing and a choice of ‘touch’ variable control dimmer or a basic on/off rocker switch. Lighting color is bright & crisp 5,000 Kelvin. Each light includes a 3’ power cord sized to plug into the upright outlet, **standard only when light is ordered with bench/uprights**. The outlet cord exits the bottom of the upright with 9’ length to plug into nearby source outlet. Special length power cords available.

10-year unconditional warranty

Uprights and support arms are required. Specify either 45% or 90% models.
- Light Sizes: 24”, 36”, 48”, 60”, 72” & 96”
- Housing Color: White. Other colors to match bench frames are available for minor upcharge.





ADJUSTABLE ACCESSORIES

- **Leg Extensions. (‘Pin-adjust’)**

Sturdy **t**ube steel leg extensions are a commonly specified accessory. They’re low cost and can greatly improve adaptability. They come with nickel plated nylon leveling glides which include approx. 5/8” of additional adjustment. Or with caster alternative bottom of leg extensions includes welded mount plate.
- 6” & 12” models. Adjustability in 2” increments. Customers may specify desired bench ‘low point’ (of worksurface). Example (6”), 28” low setting, with adjustment to 30”, 32” or 34”.
- Note: Leg extensions ship pre-installed in the legs. Specify the desired worksurface height on your order and they will arrive set to accommodate that height.

- **Monitor Arms**

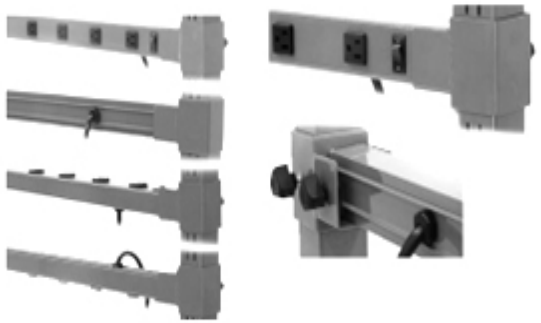
- Articulating:
Bracket install on uprights for vertical adjustability, or on adjustable horizontal monitor bars. Articulating arms rotate left/right and provide both vertical and horizontal monitor tilt functions. Singl and dual-monitor models.

- Tilt monitor holders:
Attach to adjustable horizontal monitor bar that installs between uprights. Holders adjust individually left/right.

- 13 lb. monitor capacities.
- Stainless steel models

- **Adjustable Power Strips:**

Uprights required.
This highly versatile 15A, 120V power solution is UL listed and comes standard with 8, 12 or 16 outlets, depending on length. 20A special option is available. This model locks within its’ holder and can be set with outlets facing, front, rear, up or down. The holder brackets are adjustable vertically on the uprights. Special power cord locations and lengths can be accommodated based on customer needs for cord routing. We can also add outlets and/or customize plug ends, e.g. twist lock. Note: any modifications cancel U.L. listing as a unit, but all components remain U.L. listed.



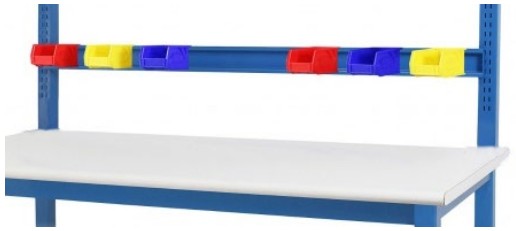
Upper Storage Cabinet – solid doors
- Sliding door, stainless steel handles, lockable, nylon rollers. 12”H x 12”D. 24”, 30” & 36”W. Joined units create 4’, 5’, & 6’ assemblies.
- Adjustable on uprights

Upper Lab Cabinet – sliding framed window doors
- Upright or wall mount
- Acrylic windows
- 36”W x 24”H x 12”D
- Locking doors
- Joinable for 6’ lab benches
- Fixed steel shelf

ADJUSTABLE ACCESSORIES

- **Parts Bin Rails**
  - Single or double rail
  - Powder coated steel
  - Stainless steel models
  - Adjustable on uprights

  (Bins not included)



- **Tool Balancer Frame**
  - 50 lb. capacity
  - Unistrut rail
  - Ball bearing axis
  - Adjustable on uprights and front/rear extension
  - Balancer is not included

- **Roll Holders:**
  - Heavy duty steel tube.
  - Anti slide lock pins.
  - Adjustable on uprights

FIXED HEIGHT ACCESSORIES

- **Suspended Storage – Drawers & Hinged Door Cabinets:**

Premier Series:

16 ga. steel construction. 100 lb. rated slides with 20" extension. Full width stainless steel pulls. Individual keyed locks included. Install under worksurface. **Fully modular & flexible. Create stacked modules, mixed heights, and/or drawer/cabinet combos.**

- Widths: 14.5" & 21" wide models.
- Drawer heights: 2", 2.5" 3", 4", 6", 9", 12" (file)
- Depth: 20"
- Door cabs match widths & depths. 12"H or special.
- Floor and mobile pedestals are also available Contact us for configurations and pricing.
- All designs available in #304 stainless steel

Rounded safety corner on all bottom drawers

Combine drawer(s) & cabinets in single modules

- ***Utility Drawer Series:***

- Available in 2", 4", 6" & 12" heights only
- 14.5" width, 14.5" depth. #100 slides.
- Painted steel pulls. Lock option.

- **Steel Base Cabs – Below Lab Bench Worktops**

- 100 lb. or 200 lb. capacity drawers
- Optional tops
- 16/18 ga. steel
- Hinged door models
- Fully tig welded, assembled
- Fully modular to configure with a range of drawer heights.
- Mobile with casters or stationary with leveling glides

Widths: 22", 30", 36" or special
Depths: 21", 28" or special
Heights: 27", 28" 30", 37".
Special heights for optimal fit under worktop frames. Casters, bases, levelling glides and tops factor for desired heights.
- ADA compliance cabs and benches

- ACCESSORIES:

Drawer Dividers

Bases, 3" & 4" H

Welded Pull Handle

Locks

FIXED HEIGHT ACCESSORIES

Power Units

- **Power Backsplashes:**
  Install at rear of worksurface
  Sized to fit between uprights, for 24”, 30”, 36”, 48”, 60” 72”, 84” & 96” lab benches
  - Aluminum housing model : 15A, 8, 12, or 16 outlets, lighted on/off circuit, U.L. listed, 9’ power cord. Additional outlets and/or different power cord length - optional.
  - Aluminum housing with stainless steel front model. U.L. listed components.
  - 20A option. NEMA 5-15R and 2 NEMA 5-20R (one on each end)
  - Power/data configuration available as a special.
  - USB port option

- **Frame Mounted Power Outlets:**
  4 or 8 outlet units. Install in front, rear or side frame support rails below worktop.
  Face out or inward. U.L listed components.
  On/off circuit and 9’ power cord. Multiple duplexes may be configured for a single circuit.

- **Riser Shelf Power Panels:**
  4 & 8 outlet models. Install in one or both shelf risers. U.L listed components. Lighted on/off circuit and 10’ power cord.
  Stan

- **Free Standing Riser Shelf**
  Fixed alternative to upper adjustable shelf.
  Optimal for heavier loads.
  - All materials available, i.e. HPL (laminate) ESD laminate, phenolic resin, stainless steel, painted steel, solid maple.
  - Heavy duty 2” x 2” tube steel frame, bolt attaches through the worktop and bench frame.
  - Lengths to match the full range of worktops
  - Depths: 12”, 15”, 18”, 24”, or special
  - Standard height = 20” to top of shelf, with approx. 16.75” clearance from worksurface.
    HEIGHT FLEXIBILITY: You may specify just about any height without added cost. Note that clearance from worktop to frame will be approx. 3.25” less than shelf height. For maple tops, clearance will be approx. 3.75” less.

Optional, add panels with or without power

- **CPU Holder:**
  Steel construction. Holds up to 60 lb, vertical or horizontal CPUs multiple sizes up to 16”H. Adjustable straps.

- **Adjustable Keyboard Tray**
  Metal construction. Adjusts in/out & up/down. Tilt function. Extends out 13.25”. Heavy duty mechanism. Platform is 9” x 24”, room for mouse.

FIXED HEIGHT ACCESSORIES

- **Bottom Shelves:**
  Lower shelves include support bars on underside, 'lock' it between the bars to prevent left/right movement. With rear edge up against rear legs, most users find no need to secure it with screws or bolts. Available in 12", 15" or 18" depths, as well as specials. Specify any material, e.g., Formica laminate, phenolic resin, painted steel, etc. Rounded front edges are recommended due to shoe contact. Roll out models are also available.

- **Removeable Rear Leg Crossbar:**
  - Heavy duty 2" x 2" steel tube
  - Not a structural requirement.
  - Enhances rigidity.
  - Center 'footrest' location model available
  - Recommended for hydraulic lift benches.

- **Casters:**
  Any J4L workbench can become a mobile unit by adding heavy duty, swivel/lock/brake casters. Available in 4" (700 lb.) & 5" (1,200 lb.) models. Upgraded Shepard total lock casters are also available.
  Install with 4 bolt/nuts (provided) on leg plates.

- **Cord Mgmt. Grommets**
  Install in worksurface, typically in rear at one or two locations. 2" diameter. Removable face provides space for 1.5"W plugs.

- **Cord Manager**
  - Rubber pass-thru grommets
  - Powder coated steel
  - Install easily under worktop
  - 34", 46" & 58" models

- **Lower Storage Bin**
  Welded steel 16 ga. steel construction. Sized to fit full width of standard sized benches.

- **Vertical Shelf Dividers**
  Steel dividers secure to shelves, left/right adjustment secured with knob bolt.
  Sold in packs of 4.

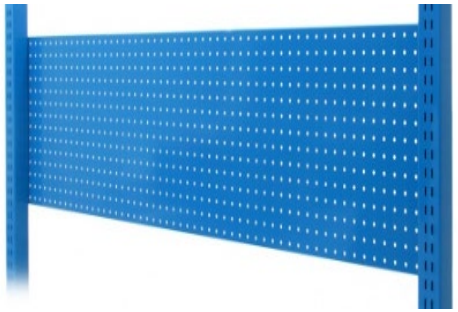
- **Footrests:**
  - Fixed position model, at mid-point
  - Front/rear adjustable model
  - Above in chrome or painted steel
  - Foot-panel model, tilt and left/right adjustable with rubber pad.

FIXED HEIGHT ACCESSORIES

- **Fixed Platform Footrest Phenolic resin**
  - 13 x 17
  - Rubber base pads

- **Fixed Platform Footrest Powder coat steel**
  - Height adjustable
  - Angle adjustable
  - Available in stainless steel

- **Steel Fill Panels**
  - Painted, powder coat finish
  - Enclose ends
  - Rear modesty panel
  - Sized as needed

- **Bench Booties**
  - Rubber
  - Protection in wet environments
  - for J-4L models only
  - Set of 4

- **Steel Pegboard**
  - 18 ga. Steel
  - Standard 14” high.
  - Designed to fit between uprights for all standard and custom sized workbenches.