

SIMPLEX HYDRAULIC & AIR JACKS

■ 2 Through 100 Ton Hydraulic Bottle Jacks

Simplex 2 through 100 ton capacity all purpose jacks are ideal for use in general industrial applications, and are used extensively in maintenance, construction and material handling. The versatility of the Simplex bottle jack has made it a favorite in shipyards, factories, oil fields, mines & general industries.

■ 2 Through 10 Ton Hydraulic Toe Jacks

Simplex hydraulic toe jacks are the solution to all of your low clearance lifting problems. Choose from the widest variety of toe jacks in the industry, with both remote and self-contained units. Capacities range from 2 through 10 tons. The new Simplex TJH2 is a 2 ton self-contained toe jack utilizing 5/8" minimum toe height and over 4" of travel.

■ 1.1 Through 74.1 Tons Air Lifting Bags

Thin, powerful & light weight, the Simplex Air Bags are the answer to the toughest industrial applications. Starting with a minimum height of 1.1", Simplex lifting bags offer high capacity for clearances too small for most conventional jacks. They are ideal for use in railroads, construction, mining, shipyards and industrial applications that require safe, reliable lifting, spreading, bending or pushing. Simplex air lifting bags are manufactured with neoprene & Kevlar reinforced construction and are safer, stronger and more reliable than other bags on the market.

■ Pow'r-Riser II™ 60 Through 200 Ton Capacities

The Simplex Pow'r-Riser II™ Railcar & Off-Road Equipment Jack has been the industry benchmark for over a decade. Simplex now offers the second generation, the Pow'r-Riser II™ with advanced hydraulic technology and ergonomic handling that makes the jack easier and safer to operate. The Pow'r-Riser II™ is available in 60, 100, 150 & 200 ton capacities with electric or air power sources. The Pow'r-Riser II™, mixed with the extensive line of drop-in extenders and spacers, can fit under any railcar or off-road truck in the industry. The ergonomic 3 position handle makes the Pow'r-Riser II™ the easiest jack of its kind to maneuver into and out of position. The Pow'r-Riser II™ also comes with optional u-rings to hold the load mechanically in place.

■ Hydraulic Bottle Jacks

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■ Hydraulic Toe Jacks

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■ Air Lifting Bags

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■ Air & Electric Pow'r-Riser II™

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POW'R-RISER II™ RAILCAR & OFF-ROAD TRUCK JACK



- **For Portable, Self-Contained Jacks, Nothing Beats the Simplex Pow'r-Riser II™ Railcar Jack.** While short enough to fit under the lowest loads, operators can add up to 32" of drop in extenders for maximum flexibility. Dual hydraulic locking systems and mechanical lock rings make the Pow'r-Riser II™ the safest jack available.



- **When It Comes To Brute Force In a Roll Under Jack,** nothing even comes close to the Simplex Pow'r-Riser II™. With capacities up to 200 tons and powered by standard shop air or 115VAC, the Simplex Pow'r-Riser II™ is ideal for the largest maintenance jobs. From the heaviest railcar to the largest mining equipment, Pow'r-Riser II™ is the only choice.

AIR LIFTING BAGS



- **Construction, Maintenance, and Safety and Rescue** are just a few of the applications perfect for the Simplex air lifting bags. Light weight, easy to position and extremely low in profile, Simplex air bags offer solutions for the most difficult applications.

HYDRAULIC TOE JACKS



- **Simplex Toe Jacks Are The Industry Standard.** Today, hydraulic toe jacks offer more power, more safety and more flexibility than ever before. Over 100 years of jacking experience goes into every toe jack Simplex manufactures. When it comes to using the safest toe jack available, railroads, mines, machinery movers and heavy industry insist on Simplex.

Simplex Hydraulic Jacks Prove To Be A Universal Tool.



"We needed a jack of all trades." Applications ranged from spreading, leveling, lifting and holding for the maintenance crew at a large steel fabrication plant. "The Simplex Jacks are the best utility tool for the wide variety of jobs that come up day after day."

- 11 Models.
- Drop forged base and rugged welded construction.
- Operates in horizontal position with handle down.
- All models include over travel protection.
- Grooved saddles help prevent load slippage.
- 2 through 22 ton models include screw extensions.
- Piston rods are chrome plated to resist corrosion.
- Super low profile versions available in 12 & 22 ton capacities.
- Service kits are available for all models.

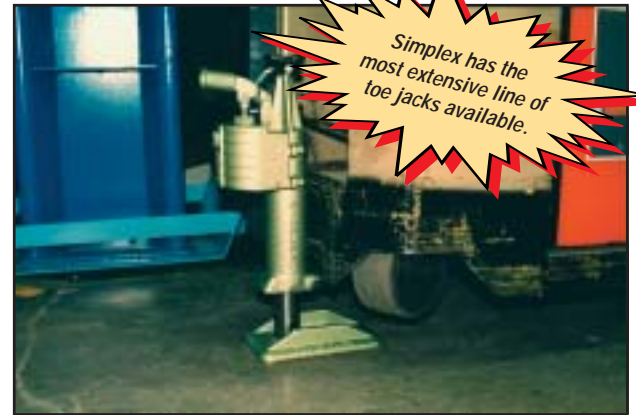
| Model Number | Cap. (tons) | Min. Ht. (in) | Stroke (in) | Ext. Screw Ht. (in) | Max. Ht. (in) | Base Area (in) | Piston Dia. (in) | Max. Handle Effort (lbs) | Weight (lbs) |
|--------------|-------------|---------------|-------------|---------------------|---------------|--------------------|------------------|--------------------------|--------------|
| HJ2 | 2 | 7 1/8 | 4 1/2 | 2 | 13 5/8 | 4 3/8 x 2 5/8 | 3/4 | 64 | 5.3 |
| HJ3 | 3 | 7 1/2 | 4 1/2 | 2 3/8 | 14 3/8 | 4 1/2 x 2 7/8 | 7/8 | 64 | 7.3 |
| HJ5 | 5 | 7 7/8 | 4 3/4 | 2 3/4 | 15 3/8 | 5 1/4 x 4 | 1 1/4 | 48 | 8.2 |
| HJ8 | 8 | 7 7/8 | 4 3/4 | 2 3/4 | 15 3/8 | 4 x 3 1/2 | 1 3/8 | 69 | 12.8 |
| HJ12 | 12 | 9 1/2 | 5 7/8 | 3 1/8 | 18 1/2 | 6 1/2 x 4 3/16 | 1 5/8 | 73 | 19.7 |
| HJ12/LP | 12 | 6 3/4 | 3 3/4 | 3 | 13 1/2 | 6 1/2 x 4 3/16 | 1 5/8 | 73 | 15.0 |
| HJ22 | 22 | 10 5/8 | 6 3/8 | ---- | 17 | 7 1/4 x 5 5/8 | 2 1/8 | 73 | 29.8 |
| HJ22/LP | 22 | 7 1/8 | 3 3/8 | 1 5/8 | 12 1/8 | 7 1/4 x 5 5/8 | 2 1/8 | 73 | 24.3 |
| HJ35 | 35 | 11 | 6 3/8 | ---- | 17 3/8 | 7 5/8 x 5 5/8 | 2 1/2 | 69 | 45.2 |
| HJ55 | 55 | 12 | 6 3/4 | ---- | 18 3/4 | 9 3/8 x 7 3/8 | 3 1/4 | 73 | 97.0 |
| HJ100 | 100 | 12 | 6 23/32 | ---- | 17 23/32 | 12 33/64 x 10 7/16 | 4 29/32 | 93 | 194.0 |

Note: Handles are included with all models.

TOE JACKS

JACKS

Simplex Toe Jacks Are The Heavy Haulers & Structural Movers First Choice.



Simplex has the most extensive line of toe jacks available.

Heavy equipment movers have long realized the benefits of Simplex toe jacks. Truly a universal tool, hydraulic toe jacks can do a wide variety of jobs faster & safer than standard jacks. With toe heights starting at 1" and capacities up to 10 tons, Simplex hydraulic toe jacks are the first choice for transformer maintenance, heavy hauling, structural moving, and rigging.

NEW!!



TJH109LS

Simplex offers the largest selection of toe jacks to fit your needs.

- 6 Models
- Self-contained models for maximum versatility.
- Low toe heights fit in tight clearances.
- The lowest handle effort for easy operation.
- The lowest weights for reduced back injuries.
- Swivel sockets for access in close quarters. (TJH5 & TJH10 only)
- New light weight TJH109LS and TJH105A.

Toe Jacks

| Model Number | Cap. (tons) | Stroke (in) | Minimum Height | | Base Area (in) | Max. Handle Effort (lbs) | Method Of Return | Weight (lbs) |
|--------------|-------------|-------------|----------------|----------|----------------|--------------------------|------------------|--------------|
| | | | Toe (in) | Cap (in) | | | | |
| TJH2 | 2 | 4 7/16 | 5/8 | 9 1/4 | 4 59/64 x 7 | 51 | Load | 18 |
| TJH5 | 5 | 4 5/8 | 1 | 11 3/4 | 7 1/4 x 10 5/8 | 33 | Spring | 53 |
| TJH10 | 10 | 5 7/8 | 1 1/4 | 13 1/8 | 9 1/2 x 11 1/4 | 38 | | 85 |
| TJH109 | | 9 | 2 1/4 | 22 | 6 1/2 x 10 | 80 | | 56 |
| TJH105A | | 5 | 2 11/64 | 11 1/2 | 6 x 9 | 73 | | 37 |
| TJH109LS | | 9 | | 16 1/8 | | | | 41 |

Note: Handles Are Included With All Self-Contained Models.

Simplex Air Bags Are The Perfect Choice for Low Clearance Lifting.

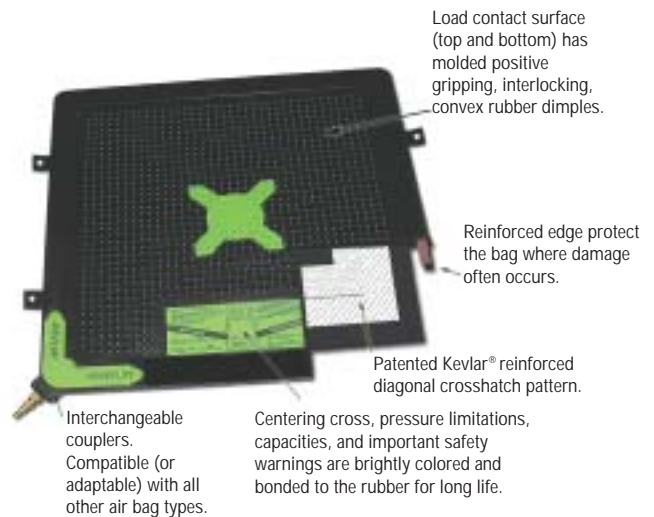
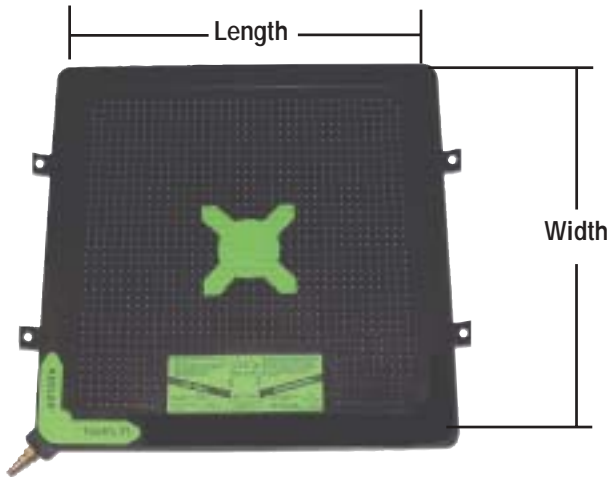


1.1 Through 74.1 Ton Capacities

| Model Number | Cap. (tons) | *Max. Lifting Hts. (in) | Bag Dimensions (in) | | | Air Req. @116 PSI (cu. ft.) | Max. Burst Pres. (PSI) | Wgt. (lbs) |
|--------------|-------------|-------------------------|---------------------|------------|------------|-----------------------------|------------------------|------------|
| | | | Length (in) | Width (in) | Thick (in) | | | |
| B1A | 1.1 | 2.7 | 6 | 6 | 1.1 | .18 | 464 | 1.32 |
| B3A | 3.1 | 5.1 | 9 | 9 | 1.1 | .53 | | 2.8 |
| B6A | 6.4 | 5.9 | 12 | 12 | 1.1 | 1.48 | | 5.3 |
| B11A | 10.8 | 7.0 | 15 | 15 | 1.1 | 3.04 | | 8.8 |
| B14A | 14.2 | 8.6 | 18 | 18 | 1.1 | 5.37 | | 11.6 |
| B22A | 22.7 | 10.6 | 22 | 22 | 1.1 | 10.45 | | 17.8 |
| B28A | 27.7 | 11.8 | 24 | 24 | 1.2 | 14.7 | | 24.6 |
| B35A | 35.3 | 14.1 | 27 | 27 | 1.2 | 21.9 | | 29.9 |
| B46A | 46.4 | 16.5 | 31 | 31 | 1.2 | 32.5 | | 40.1 |
| B59A | 58.8 | 17.7 | 35 | 35 | 1.2 | 46.8 | | 49.6 |
| B74A | 74.1 | 20 | 36 | 36 | 1.2 | 53.1 | 348 | 55.8 |

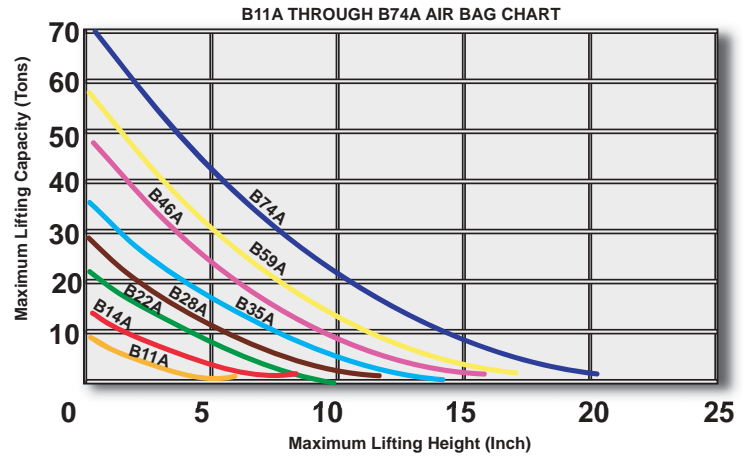
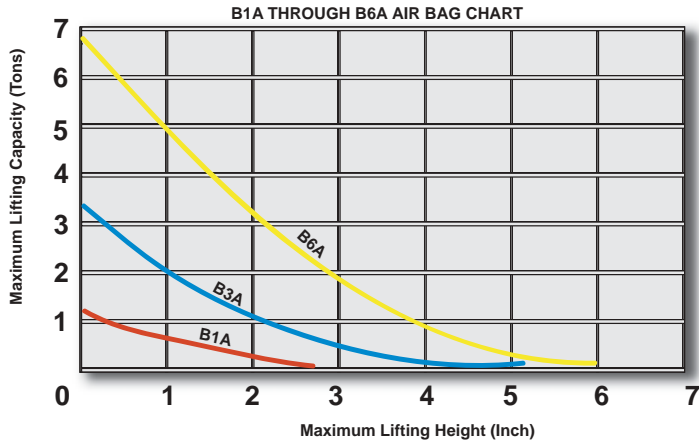
All Simplex Air Bags have a maximum working pressure of 116 PSI.

*See chart on page 85 for maximum lifting heights.



- 11 models with capacities ranging from 1.1 through 74.1 tons.
- Simplex air bags operate on standard shop air up to 116 psi.
- Simplex air bags will fit into the tightest areas with collapsed heights of 1.1" to 1.2".
- All models include 2 ply Kevlar with neoprene.
- Serrated lifting surface on each side of the air bag helps prevent load slippage.
- Multi-color hoses to help keep track of bags during multi-bag lifts.
- Wide variety of safety controllers for single & multiple bag systems.
- Bright "X" is molded into each bag for easy center point placement.
- Light weight makes the Simplex air bags easy to set up.
- B22A through B74A bags come with side holes for attaching bags together.

HEIGHT vs. LOAD CAPACITY @ 116 PSI (8 BAR)



Components and Accessories

BC4A - Single Safety Controller



- BHR16A - 16' Red Hose
- BHR32A - 32' Red Hose
- BHB16A - 16' Blue Hose
- BHB32A - 32' Blue Hose
- BHY16A - 16' Yellow Hose
- BHY32A - 32' Yellow Hose



BC11
Dual Safety Control



BC12
Deluxe Dual Deadman
Control



BC2A - Dual Deadman Control



BC9A
"Y" Connector



BC8A
Shutoff Valve w/Nipple



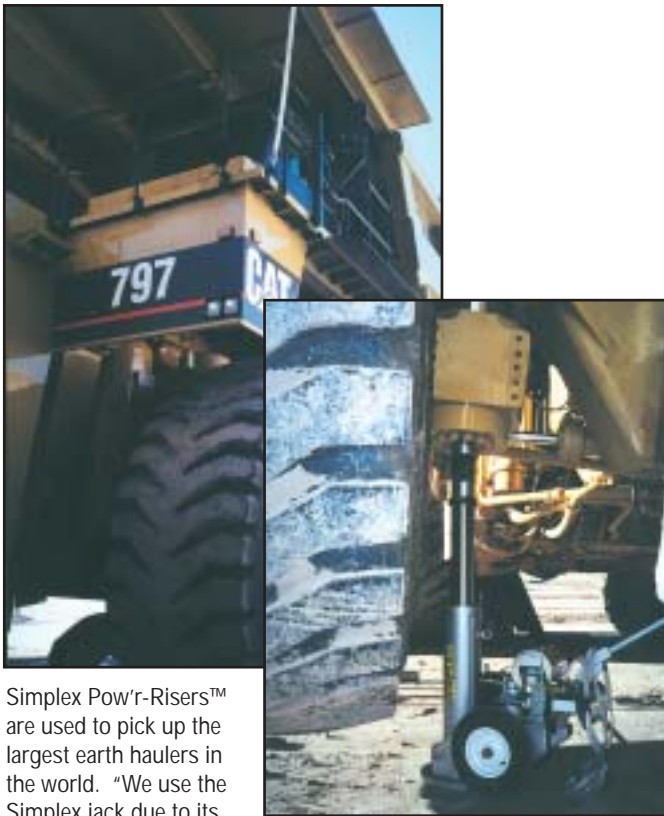
BC6A
In-Line Relief Valve

BC3A - Single Deadman Control



BC1A
Pressure Regulator

Simplex Pow'r-Risers Are The Ideal Choice for Railcar & Off-Road Equipment Jacking.



Simplex Pow'r-Risers™ are used to pick up the largest earth haulers in the world. "We use the Simplex jack due to its easy transport and the many optional extensions and lock rings that ensures the level of safety required in mining operations."

200 Ton Version



| Model Number | Capacity (tons) | Min. Height (in.) | Stroke (in.) | Motor | Max. Additional Stack Ht. Using Optional Extension System | Control Valve | Power Source | Noise Level (Db) | Weight (lbs.) | | |
|--------------|-----------------|-------------------|--------------|----------|-----------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|---------------------|----------------------------|---------------------|-----|
| JA6024 | 60 | 24 | 14 | Air | 32* | Manual | Air Motor 50 CFM 80 PSI | 89 | 390 | | |
| JA6037 | | 37 | 27 | | | | | | | | |
| JE6024 | | 24 | 14 | Electric | | | 115 VAC 50/60 Hz 20 amps | 80 | 390 | | |
| JE6037 | | 37 | 27 | | | | | | | | |
| JA10026 | 100 | 26 | 16 | Air | 21** | Manual | Air Motor 50 CFM 80 PSI | 89 | 510 | | |
| JA10037 | | 37 | 27 | | | | | | | | |
| JAS10026 | | 26 | 16 | | | | | | | Remote 20' Pend. | 510 |
| JAS10037 | | 37 | 27 | | | | | | | | |
| JE10026 | | 26 | 16 | Electric | | Manual | 115 VAC 50/60 Hz 20 amps 230/460 VAC 3 Phase | 80 | 510 | | |
| JE10037 | | 37 | 27 | | | | | | | | |
| JEB10026 | | 26 | 16 | | | | | | | 530 | |
| JEB10037 | | 37 | 27 | | | | | | | | 620 |
| JAS15026 | | 150 | 26 | 15 1/2 | | Air | 21** | Remote 20' Pend. | Air Motor 50 CFM 80 PSI | 89 | |
| JAS15037 | | | 37 | 26 1/2 | | | | | | | 708 |
| JE15026 | 26 | | 15 1/2 | Electric | Manual | 115 VAC 50/60 Hz 20 amps 230/460 VAC 3 Phase | | 80 | 570 | | |
| JE15037 | 37 | | 26 1/2 | | | | | | | 708 | |
| JEB15026 | 26 | | 15 1/2 | | | | | | | | 590 |
| JEB15037 | 37 | | 26 1/2 | | | | | | | 728 | |
| JAS20026 | 200 | 26 | 15 1/2 | Air | Contact Factory | Remote 20' Pend. | Air Motor 50 CFM 80 PSI | 89 | 640 | | |
| JAS20037 | | 37 | 26 1/2 | | | | | | | 825 | |

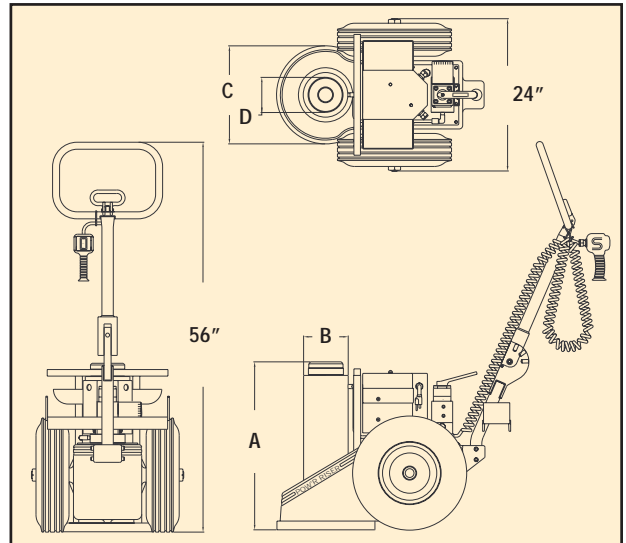
* Based on (1) 18" and (1) 11" extension and (1) 3" spacer.

**Based on (1) 18" extension and (1) 3" spacer.

WARNING: Any two extensions may be stacked for loads up to 60 tons per jack. For loads from 60 tons to 150 tons only 1 extension and 1 spacer can be used.

NOTHING ELSE IS EASIER OR SAFER:

- 24", 26" & 37" Minimum Heights.
- 60, 100, 150 & 200 ton capacities to handle the toughest jobs.
- Sup'r-Stack™ extension system gives the jack a wide variety of minimum heights.
- 3 position handle for easy tilt back and rolling.
- 4" of ground clearance for rough terrain.
- Mechanical lock rings for fail safe holding.
- Easy to change external filter minimizes down time.
- Only 24" wide/fits in tight spots.
- Air pilot or 12 VDC pendant with 20' cord for remote operator safety.
- Dual hydraulic locking systems prevent creep down.
- Equipped with a pilot-operated check valve which locks the load in place to prevent accidental lowering.



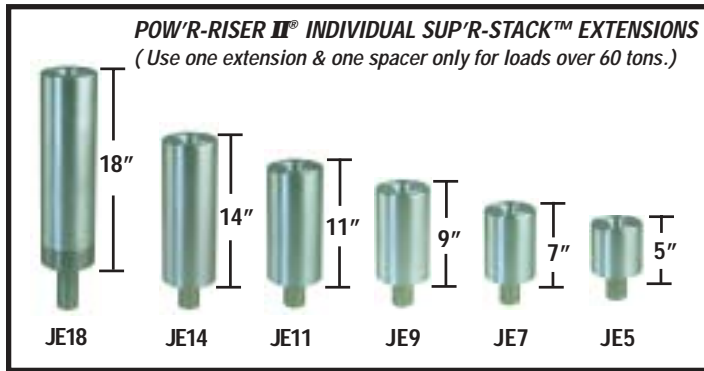
| Model Number | "A" (in) | "B" (in) | "C" (in) | "D" (in) |
|--------------|----------|----------|----------|----------|
| JE6024 | 24 | 6.38 | 14 | 4 |
| JE6037 | 37 | 6.38 | 14 | 4 |
| JE10026 | 26 | 7 | 18 | 4 |
| JE10037 | 37 | 7 | 18 | 4 |
| JE15026 | 26 | 8 | 18 | 5 |
| JE15037 | 37 | 8 | 18 | 5 |
| JAS20026 | 26 | 10 | 18 | 6 |
| JAS20037 | 37 | 10 | 18 | 6 |



NOTHING ELSE COMES CLOSE:

- Rugged, fully enclosed frame; no exposed fittings or hoses.
- Runs on air, 115VAC/15 amp and 230VAC/10 amp service.
- Secondary back-up filtration system for reliability.
- Light weight for greater mobility and less back strain.
- Optional dual porting for use with remote cylinders.
- Automatically controlled, "chatter free" load lowering for maximum safety in descent.
- All Pow'r-Riser II™ models comply with ASME/ANSI B30.1 Specifications.

The Simplex Pow'r-Riser II, When Used With Sup'r-Stack™ Extension Set and Spacer Set, Can Handle All Rail Cars and Off-Road Equipment Without Blocking.



ES6024 Extension Set

| Model Number | Description |
|--------------|--------------|
| JE5 | 5" Extender |
| JE7 | 7" Extender |
| JE11 | 11" Extender |
| JE18 | 18" Extender |



Swivel Load Cap

| Model Number | Description |
|--------------|--------------|
| JTS60 | 60 & 100 Ton |
| JTS150 | 150 Ton |
| JTS200 | 200 Ton |

Min. & Max. Height For Lifting Can Be Achieved By Using The Following Spacer/Extender Combination

| Min. Height | 25 | 26 | 27 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 40 | 42 | 43 | 44 | 45 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
|------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|
| Ext. Height | 39 | 40 | 41 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 54 | 56 | 57 | 58 | 59 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| Spacer | | | | | +1 | | +1 | +2 | +3 | | +1 | +2 | +3 | +5 | | +1 | +2 | +3 | +5 | +1 | +7 | +1 | +2 | +3 | +11 | +1 | +2 | +3 |
| Drop-In Extender Combination | 1 | 2 | 3 | 5 | 5 | 7 | 7 | 7 | 7 | 11 | 11 | 11 | 11 | 11 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |

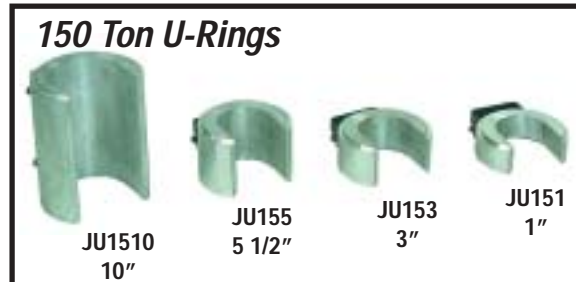
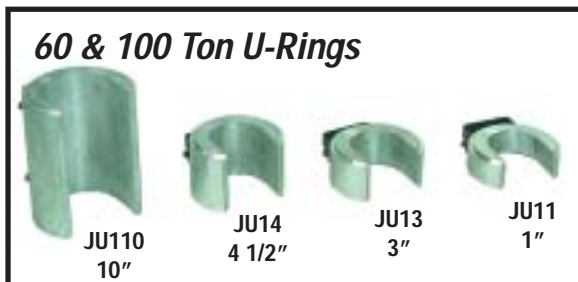
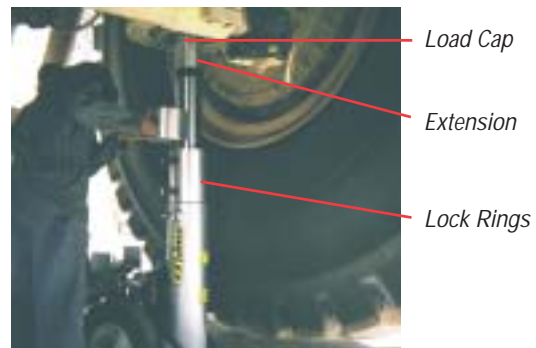
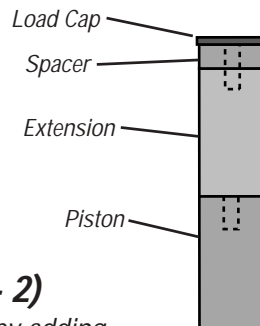
Use tallest extender on the bottom.

POW'R-RISER II® SPACER SET - JS4



JS-3 JS-2 JS-1 (Qty. - 2)

Fine tune your extension stack height by adding 1", 2" or 3" spacer.



POW'R-RISER II® LOCKING U-RING SETS

| Model Number | Models Used On | Contains |
|--------------|------------------------|------------------------------------------------------------------|
| JUS126 | 60 Ton 24"/100 Ton 26" | (2) JU11 - 1", (1) JU13 - 3", (2) JU14 - 4 1/4" |
| JUS137 | 60 Ton 37"/100 Ton 37" | (2) JU11 - 1", (1) JU13 - 3", (2) JU14 - 4 1/4", (1) JU110 - 10" |
| JUS1526 | 150 Ton 26" | (2) JU151 - 1", (1) JU153 - 3", (2) JU155 - 5 1/2" |
| JUS1537 | 150 Ton 37" | (2) JU151 - 1", (1) JU1510 - 10", (2) JU155 - 5 1/2" |
| JUS2026 | 200 Ton 26" | (2) JU201 - 1", (1) JU203 - 3", (2) JU205 - 5 1/2" |
| JUS2037 | 200 Ton 37" | (2) JU201 - 1", (1) JU2010 - 10", (2) JU205 - 5 1/2" |