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SECTION 2 Glass Handling and Safety Gear

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CRL Offers Solutions to Fit All Your Vacuum Lifting Requirements

- Hand-Held Vacuum Cups
- Below-the-Hook Vacuum Lifting Frames
- Custom Fabricated Lifting Frames

CRL has worked through the decades to provide the industries with safe and practical methods of handling glass and other materials. The following pages represent the latest advancements in vacuum lifting technology with products made by safety conscious and demanding manufacturers. The versatility of the lifting equipment shown here can fulfill most every requirement for today's demands, but should you have unique applications that necessitate special parts fabrication, CRL has the capability of providing customized equipment engineered to meet your needs. For additional information, contact the CRL Customer Service Department at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 5275. You can also e-mail us through our web site, crlaurence.com. From the home page click on Contact Us, and then click on Customer Service.



Hand Held Lifters

(See Pages 202K to 223K)

Frequently called hand cups, vacuum cups or suction cups, Hand Held Lifters use manually operated pumps, levers or simple press-on application to create a vacuum. Different models are available for handling loads with flat, curved or textured surfaces.

Several factors determine the most appropriate style of hand cup to use, including the weight and type of material, the duration of the lift, and the attachment speed required. For carrying larger loads over longer distances, pump-style cups offer the greatest advantage. These cups are attached by pumping a plunger that removes air from between the load surface and the rubber pad. A red line on the plunger warns the user of any vacuum loss. Should the line reappear during the lift, a check valve allows the user to repump the cup without losing the remaining vacuum. In contrast, handling speed may be a primary concern with lighter, smaller loads. In this case, lever-style or press-on cups could be an appropriate choice.

When using any type of manually operated vacuum cup, it is important that the surfaces of the load and of the cup itself be relatively free of contaminants that could cause the load to slip. This is particularly true for press-on and lever-style cups, because vacuum indicators are usually not present, and the vacuum level attained may be less than that of pump-style cups.



CAT. NO. S338



CAT. NO. W4950



CAT. NO. 05062

Below-The-Hook Lifters

(See Pages 714K to 740K)

Below-the-Hook Vacuum Lifters are used to handle large sheet materials with the aid of floor hoists, cranes or forklifts, which provide vertical and horizontal movement of the load. These Lifters normally come with a powered vacuum system, and are available in models for handling materials strictly in the upright or flat position, or in versions that provide powered or manually operated rotation and tilt movements.

To select an appropriate Lifter, first assess the kind(s) of work it is expected to do. List the features and functions needed in terms of material size and weight, load manipulation, speed requirements, and available power. If versatility is the primary consideration, the ideal Lifter is one that does many jobs reasonably well. For medium to high volume production, speed and ease of handling are critically important. Keep in mind that a single Lifter may not always be the most effective solution. Specialized Lifters, dedicated to one aspect of an operation, sometimes lead to greater efficiency and may be just as cost-effective.





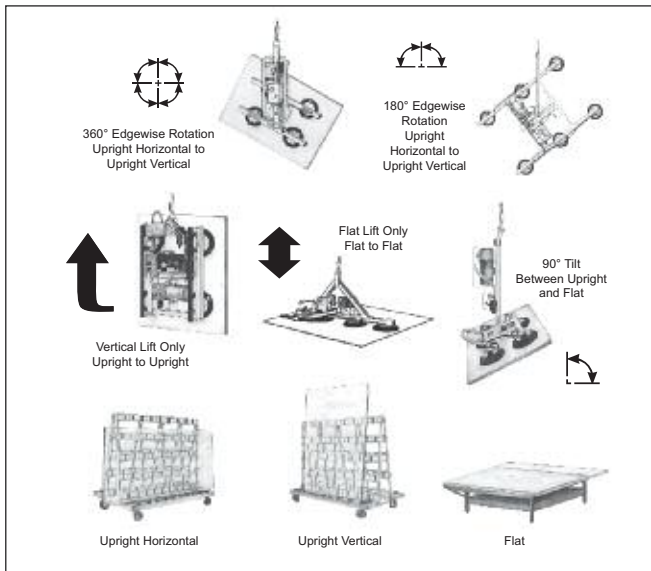
Capacity and Support

Load capacity ratings for CRL Wood's Below-the-Hook Lifters include a safety factor calculated to cover variations in slip resistance, due to contamination on the load or vacuum pads, and weight magnification, which may occur when cranes, hoists or forklifts vary between countries, so make sure the rated capacity meets or exceeds the standards for your location. After selecting a Lifter with the correct load capacity, you must also confirm that the crane, hoist or any other equipment used is rated to carry the combined weight of the Lifter and load.

Capacity is often defined strictly in terms of load weight. However, the support that a Vacuum Lifter supplies across the load surface is equally important. Support requirements depend on the type and thickness of material being lifted, and the angle of the material during the lift. Materials such as glass, stone or sheet metal each have different properties that affect how they can be securely lifted and manipulated. The Lifter's pad spread must limit load overhang and provide adequate support to prevent bending or breaking of the material. Consult the CRL Customer Service Department for more specific information about support requirements.

Load Manipulation

One of the most significant contributions that Below-the-Hook Lifters offer is their ability to lift and manipulate loads without excessive strain to the user. A wide variety of models are available to handle most installation or manufacturing requirements, including Vertical Lifters, Flat Lifters, Rotators, Tilters, and Rotator/Tilter Combinations, with manual or powered load movements. Whatever the job requirements, we can design Below-the-Hook Lifters with the manipulation capabilities to move loads quickly and ergonomically. The diagrams to the left provide a common language for specifying load movements.



Speed

Lifter speed is the time required to move a load from where it is to where you want it. A number of important factors must be considered to determine speed requirements, such as the time to apply the Lifter to or release it from a load, the time for a powered tilt or rotation cycle, the number of times per hour a movement is performed, and the distance the load must travel. Another factor that may influence the rate of movement is the type of hoisting equipment used to support the Lifter. For example, the speed of chain-operated hoists varies dramatically from that of a block and tackle hoist or an electrically powered hoist. Once speed and frequency requirements have been identified, the CRL Customer Service Department and Wood's Powr-Grip® can determine what kind of Vacuum Lifter is needed for the application.

Power

Below-the-Hook Lifters are available with AC, DC or compressed air vacuum systems. AC electric or air-powered systems are normally chosen for high-speed production operations. Air-powered systems use compressed air to generate vacuum and, in some cases, to manipulate the load. The capacity of the compressed air source must be specified in terms of pressure and flow in order to select an appropriate air-powered system. Since DC Lifters provide cord-free, self-contained operation, they are recommended when a Lifter must be used in various locations, or when AC power is inconvenient or unreliable. In order to conserve battery energy, DC-powered vacuum systems are designed to turn the pump on and off as needed to maintain an adequate vacuum level. AC power systems and DC battery chargers are both available in most standard voltages used around the world.



Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc.

CRL Online Vacuum Lifter Configurator Programs

- This Program Helps Determine Which Vacuum Lifting Equipment is Best Suited for Your Needs
- Access the Configurator Online at crlaurence.com for Below-The-Hook or Hand Held Vacuum Lifting Products



CRL has developed a web site "Vacuum Lifter Configurator" or product selection program for our line of Hand Held and Below-The-Hook Vacuum Lifting Devices. CRL offers so many Vacuum Lifting Devices that the selection process can become overwhelming. However, with our new Vacuum Lifter Configurator program there is now a way to quickly identify which Vacuum Cup or Lifting Frame is right for you!

By selecting a few basic qualifiers, the appropriate Vacuum Lifting Device is quickly narrowed down from our large selection. Find the right Vacuum Cup for use on glass, stone or metal; for use in glass fabrication, field installation or auto glass installation; for flat or curved pieces; smooth or textured surfaces; and based on the maximum weight (load) that needs to be lifted. Also choose how the load needs to be manipulated and/or tilted, tilt assisted, rotated, rotated and tilted, flat lifted or vertically lifted. To access the CRL Vacuum Lifter Configurator, simply go to crlaurence.com and click on Glass and Glazing, then Vacuum Lifter Configurator. See the next page for images and illustrations that demonstrate the easy selection process.



CAT. NO. 550



CAT. NO. 05063



CAT. NO. S338



CAT. NO. W4950



CAT. NO. S106VHP



CAT. NO. P11104DC



CAT. NO. PFHL69AC



CAT. NO. MRT411LDC



CAT. NO. MRTA611LDC

CRL Online Vacuum Lifter Configurator Programs

- Choose From Either Below-the-Hook Vacuum Frames for Heavy Lifting or Hand Held Vacuum Lifters for Manual Lifting

CRL Below-The-Hook Vacuum Lifting Frame Configurator (Example)

See the complete selection of Below-The-Hook Vacuum Lifting Frames on pages 714K-740K.

CRL Configurator

This online tool will help you select the most appropriate below-the-hook vacuum lifter to suit your particular requirement.

At any time you can place an order, click [here](#) to view your cart. You can also request an online quote, click [here](#) to request a quote. To speak with Customer Service simply call Toll Free at (800) 421-6144 ask for extension 5275, or to contact us via email, click [here](#).

• What type of material will you be handling?
 — Glass, Stone

• How will you be using the lifter?
 — Glass Fabrication, Installation, Auto Glass

• How does the load need to be manipulated?
 — Tilt Only, Rotate Only, Rotate and Tilt, Flat to Flat, Upright to Upright

• Do you prefer Manual or Power?
 — Manual

• What is the Maximum Load Weight in LBS/KGS?
 — Select

23 Item(s) found!

PRODUCT	DESCRIPTION
CFMR411LACS	CRL Wood's™ Power-Grip® AC Powered C-Frame Manual Rotator 4-Cup Vacuum Lifter 700 Series
CFMR49ACS	CRL Wood's™ Power-Grip® AC Powered C-Frame Manual Rotator 4-Cup Vacuum Lifter 500 Series
CFMT42ACS	CRL Wood's™ Power-Grip® AC Powered C-Frame Manual Tilting 4-Cup Vacuum Lifter 500 Series
CFMT62ACS	CRL Wood's™ Power-Grip® AC Powered C-Frame Manual Tilting 6-Cup Vacuum Lifter 750 Series
CFPT49AC	CRL Wood's™ Power-Grip® AC Powered C-Frame Power Tilter 4-Cup Vacuum Lifter 500 Series

CRL Hand Held Vacuum Cup Configurator (Example)

See the complete selection of Hand Held Vacuum Cups on pages 202K-223K.

CRL Configurator

This online tool will help you select the most appropriate Hand Cup to suit your particular requirement.

At any time you can place an order, click [here](#) to view your cart. You can also request an online quote, click [here](#) to request a quote. To speak with Customer Service simply call Toll Free at (800) 421-6144 ask for extension 5275, or to contact us via email, click [here](#).

• What will the Hand Cup be used for?
 — Lifter, Mounting

• For Smooth or Textured Surfaces?
 — Smooth, Textured

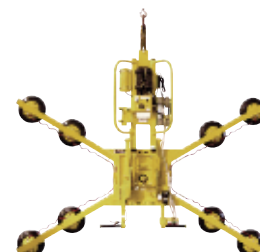
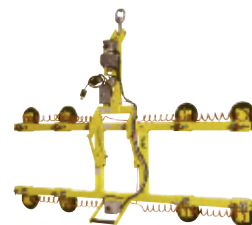
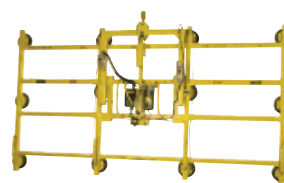
• Flat, Curved Glass or Both?
 — Flat, Curved, Both

• What is the Maximum Load Weight in LBS/KGS?
 — 125 LBS (57 KG)

• Lever or Pump Type Activation or Pressure Applied?
 — Lever

8 Item(s) found!

PRODUCT	DESCRIPTION
330	CRL 5" Heavy-Duty Double Vacuum Cup
H4500	CRL Wood's Power-Grip® Hybrid Handle 8" Vacuum Cup
S338	CRL Sure-Grip 8" Vacuum Lifter
W4000	CRL Wood's Power-Grip® 8" ABS Handle Vacuum Cup
W4000WBP	CRL Wood's Power-Grip® 8" Vacuum Cups With Low Vacuum Audio Alarm - ABS Handle



For Pricing Visit crlaurence.com or Call Us Toll Free
at the Phone Numbers Shown on the Back Cover



- **Greatest Lifting Capacity of Any 8" (203 mm) Pump Activated Vacuum Lifter**
- **Meets CE and GS Conformance**
- **Eligible for Exchange Program**



A close-up photograph of a dark, textured surface, possibly a book cover or a piece of fabric, featuring a repeating grid-like pattern. A red arrow points to a specific feature on the surface.

The ergonomically designed shape of the S338's soft contoured Sure-Grip provides a comfortable hold during lifting compared to straight, hard handles. Thousands of micro-pads are aligned in the handle material to provide greater slip resistance during lifts for yet another measure of safety.

Lifting Capacity
150 Lbs. (68 kg)

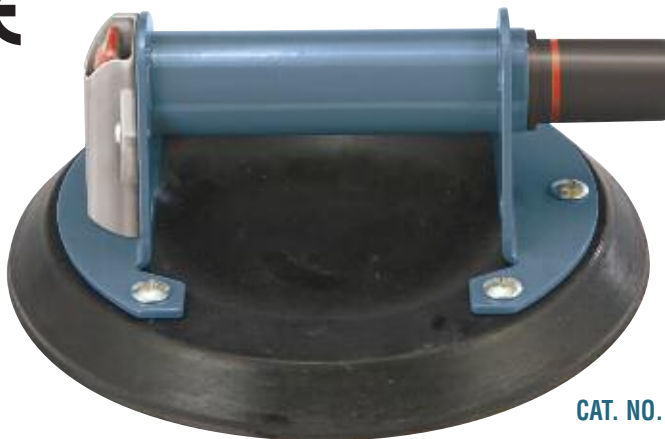


CRL S7950 8" Pump-Action Vacuum Lifter

Lifting Capacity
125 lb. (57 kg)



- Heavy-Duty Steel Handle
- Fast Attachment on Smooth, Nonporous Flat Surfaces
- Tough ABS Plunger With Red-Line Indicator
- Full Pad Face Contact When Pumped Reduces Distortion
- Can Be Re-Pumped Without Losing Remaining Vacuum
- Wide Release Valve Lever With Safety Guard Permits Quick and Complete Release
- Special Distributor Pricing Available



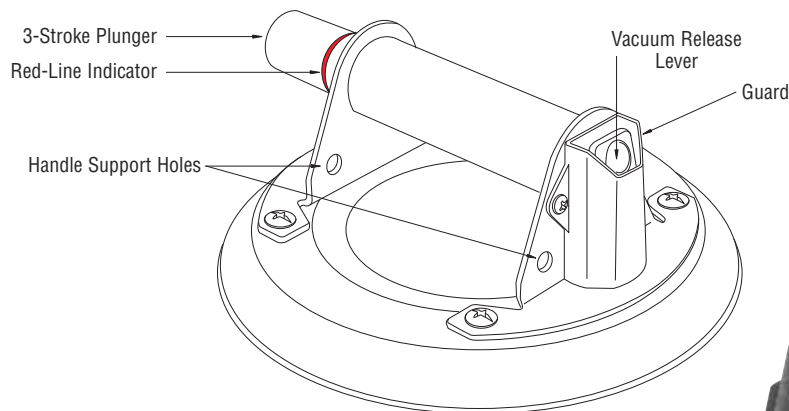
CAT. NO. S7950

CRL has developed the Cat. No. S7950 8" (203 mm) Pump-Action Vacuum Lifter with the strength of a heavy-duty steel handle and a tough ABS 3-stroke Plunger Pump for extra-fast attachment to glass and other nonporous surfaces. The Plunger uses a red-line indicator to let you know that you have sufficient vacuum to lift your load. Should the red-line appear after pumping, a built-in check valve allows you to re-pump without vacuum loss.

The large rubber pad area of over 50 square inches (323 square centimeters) makes full face contact when the Lifter is pumped, and allows attachment to glass of varying thickness with very little risk of damage.

To release the S7950 Lifter from the surface, simply press the vacuum release lever (which is protected by a guard during use) and the pad detaches from the surface without any residual sticking.

Four 5/16" (7.9 mm) diameter holes in the handle are convenient locations to attach guide ropes when using these Vacuum Lifters mounted on one of CRL's Manual Lifting Frames (shown on pages 712K to 715K), as well as for other utility attachments. Minimum order is one each.



Holes in Handle for Optional Guide Ropes



Protective Carrying Case Included

CRL S108 8" Pump-Action Vacuum Lifter

- Proven Reliability Throughout the World
- Fast, Safe Attachment to Smooth, Nonporous Flat Surfaces
- Four Extra Mounting Points Make it Easy to Attach to Metal Lifting Frames, Jigs, and Our Vacuum Ratchet Tensioning Kit
- Heavy-Duty 5 mm Thick ABS Handle Resists Bending, Especially During Heavy Lifts
- Eligible for Exchange Program

The CRL Cat. No. S108 8" (203 mm) Pump-Action Vacuum Lifter is designed to make the carrying of large flat glass lites safe and easy. The basic components are a tough ABS handle, with zinc plated parts designed not to rust, attached to a precision molded rubber suction pad.

Vacuum attachment is achieved to nonporous surfaces by depressing the pump plunger 8 to 12 times until it stays well within the handle, beyond the red safety band that is easily seen against the plunger color. The heavy 3/16" (5 mm) walls of the handle resist bending, and will not dent like metal handles.

Once the attachment has been achieved the glass lite can easily be lifted by hand. The rubber pad has the capability of handling almost any manual lift without damaging delicate surfaces, and can be released instantly by pressing the thumb release.

The four extra mounting points set the S108 apart from other pump style Vacuum Lifters. Here you can easily mount multi-use brackets of your own design or use. Examples of this can be seen on our CRL Vacuum Ratchet Tensioning Kit (see below), and Vacuum Base Portable Drilling Machine shown on page 156K.

All Cat. No. S108 Vacuum Lifters include a sturdy, protective Carrying Case. Minimum order is one each.



CAT. NO. S108

A Proud History of Proven Performance

CRL "S" Series Pump-Action Vacuum Lifters have developed into the high performance products they are today through many years of successful refinement.

- 1989 to 1992
Australian company AGT identified a local need for replacement pads. The success of the spare parts program stimulated the desire to develop the S108 Vacuum Lifter.
- April 1992
AGT designed and commissioned tooling for the production of the initial version of the S108 Vacuum Lifter. Australia wide distribution was rapidly achieved during the second half of 1992 via a network of wholesalers situated in all major capital cities.
- November 1992
First export order ships overseas.
- March 1993
Exports to the UK and Europe were established with Ebor Equipment Ltd. Ebor was subsequently appointed as the "exclusive agent" for the UK.

From this point, word spread of the reliability and performance of these Lifters. In 1999 suitable molding equipment was purchased for in-house manufacture and quality control testing.

During the past 18 years over 300,000 units have been manufactured and sold worldwide. Parts refinement of the 11 major components continues today to ensure that the highest level of quality is achieved.

CRL S108 Independent Testing Results

- All CRL "S" Series Vacuum Lifters Are Tested to Ensure Your Safety
- Multiple Tests Were Made for Each Style Vacuum Lifter

Based on the independent laboratory testing at Advanced Technology Testing and Research in Springvale, Victoria, Australia, quality assurance at the highest level is maintained during all phases of CRL Manufactured Vacuum Lifters.

Under stringent conditions, our Vacuum Lifters were set up in an Instron Tensile Test Machine using a specially designed rig to secure the Vacuum Lifter and a glass plate. Load was then applied at a constant rate until a failure took place well above our noted lifting capacities.



CRL Vacuum Ratchet Tensioning Kit

- Uses S108 Vacuum Lifter Mounting Points
- Pulls With Tremendous Force

The CRL Vacuum Ratchet Tensioning Kit is designed to pull two flat surfaces or seams together. They are perfect for Formica countertops, marble and granite, flooring, cladding, mirrors, glass, plastic, or any situation in which flat, nonporous surfaces need to be pulled together.

While one set is handy, large mirrors and counters usually need two sets, one on each corner, for an even pull. The ratchet can be removed in order to use the Lifters alone as manual lift aids. Minimum order is one each.

NOTE: Minimum order is one each. Cat. No. S108 Vacuum Lifters are sold separately.



CAT. NO. G0284

CRL 8" ABS Handle Vacuum Lifter for Curved Surfaces

- Designed Primarily for Lifting Curved Architectural Glass
- Red-Line Indicator Warns User of Any Vacuum Loss
- Providing Safe Lifting to the Industries Since 1992
- Eligible for Exchange Program



Lifting Capacity
125 Lbs. (57 kg)



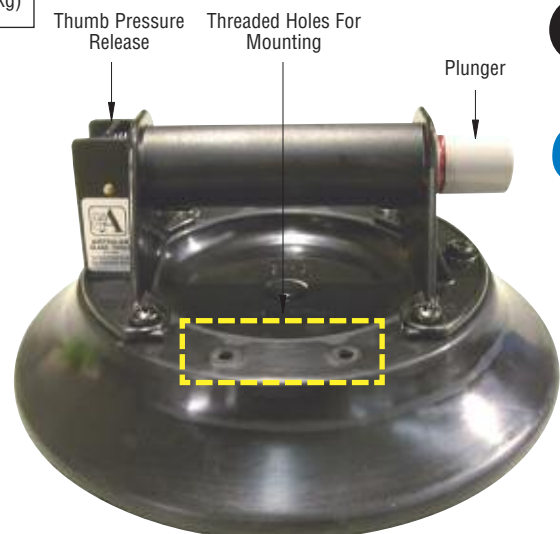
CRL Pump-Up Vacuum Lifters for Curved Glass are designed to make the carrying and lifting of large architectural curved glass sheets, windscreens (windshields), and thin flexible materials such as 1/16" (2 mm) sheet metals safe and easy. The handle is composed of tough ABS plastic, and the rubber suction cup has a diameter of 8" (203 mm). Vacuum attachment to flat, non-porous surfaces is achieved in a few seconds by depressing the pump's plunger until it stays well within the handle, beyond the red-line safety indicator. Once attachment has been achieved the glass sheet can be lifted easily by hand. The rubber cup has the capability of handling almost any manual lift without damaging the delicate surface, and is released instantly from the material by pressing the thumb release. It comes with a protective Carrying Case. Minimum order is one each.

CAT. NO. S109

CRL 10" ABS Handle Vacuum Lifter for Flat Surfaces

- Designed to Carry Large Sheets of Glass, Marble or Stone Safely
- Supplied With Protective Carrying Case
- Providing Safe Lifting to the Industries Since 1992
- Eligible for Exchange Program

Lifting Capacity
175 Lbs. (80 kg)



CRL Pump-Up Vacuum Lifters are designed to make the carrying and lifting of large glass sheets, marble or stone safe and easy. The handle is composed of tough ABS plastic, and the rubber suction cup has a diameter of 10" (254 mm). Vacuum attachment to flat, non-porous surfaces is achieved in a few seconds by depressing the pump's plunger until it stays well within the handle, beyond the red-line safety indicator. Once attachment has been achieved the glass sheet can be lifted easily by hand. The rubber cup has the capability of handling almost any manual lift without damaging the delicate surface, and is released instantly from the material by pressing the thumb release. It comes with a protective Carrying Case. Minimum order is one each.

CAT. NO. S110

CRL HAND HELD VACUUM LIFTERS

For Pricing Visit crlaurence.com or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

CRL Vertical Handle Vacuum Lifter

- **Lightweight ABS Handle, Designed for Convenient Hand Placement**
- **Large-Volume Pump for Quick Attachment on Curved or Flat Surfaces**
- **Red-Line Indicator Warns User of Any Vacuum Loss**

The ideal tool for removing or installing windshields or custom bent glass. The S106VHP Vertical Handle Vacuum Lifter provides comfortable hand placement when ordinary handles cannot. Its large volume pump permits quick attachment on both curved and flat glass surfaces. A rigid handle provides support for easy glass positioning, while non-slip grip holds the glass securely at any angle. The flexible pad conforms to the surface, and then flattens out, providing maximum gripping power. It is supplied with a vacuum pad protector. Pad measures 6" (152 mm) in diameter. Minimum order is one each.



Lifting Capacity
55 lbs. (25 kg)



CAT. NO. S106VHP

CRL Vacuum Lifter With Bail Handle

- **Red-Line Indicator Warns User of Any Vacuum Loss**

The narrow profile of the S106BH Vacuum Lifter makes them an excellent tool for pulling glass sheets from narrow storage locations, as well as for general purpose handling. Designed to work with flat or curved glass, the rubber pad has a dual seal system to protect against vacuum loss. It is also handy for pulling sheet materials from storage racks. It is supplied with a vacuum pad protector. Pad is 5-7/8" (150 mm) in diameter. Minimum order is one each.



Lifting Capacity
66 lbs. (30 kg)



CAT. NO. S106BH

CRL Vacuum Lifters With Threaded Mounts

- **Accessory Mount With Threaded Stud for Attaching Equipment**
- **Two Thread Sizes to Choose From 1/4"-20 and 3/8"-16**



CRL Thread Mounting Vacuum Lifters are ideal for temporary mounting of equipment such as telescopes, cameras, and survey equipment. Choose from either a 1/4"-20 or 3/8"-16 threaded mount. The rubber suction pad diameter is 6" (152 mm). Each Lifter is supplied with a vacuum pad protector.

CAT. NO.	THREAD SIZE	LIFTING CAPACITY
S114MC	1/4"-20	55 lbs. (30 kg)
S138MC	3/8"-16	55 lbs. (30 kg)

Minimum order: 1 each.



CAT. NO. S114MC



CAT. NO. S138MC



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CRL HAND HELD VACUUM LIFTERS

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CRL Vacuum Lifter Exchange Program

- **Your Safety Is Our Concern - Never Use Unsafe Vacuum Lifters**
- **Conserve Resources - Exchange Your CRL Vacuum Lifter Instead of Replacing It**
- **Available From All C.R. Laurence Shipping Locations**

C.R. Laurence offers an exchange service to keep your Vacuum Lifters in safe operating condition. Exchanges may be made for 6" (152 mm) Cat. No. S106VHP Vertical Handle Vacuum Lifters, 8" (203 mm) Cat. No. S108 ABS Handle Vacuum Lifters, 8" (203 mm) Cat. No. S338 Sure-Grip Vacuum Lifters, 8" (203 mm) Cat. No. S109 ABS Handle Vacuum Lifters for curved glass, and 10" (254 mm) Cat. No. S110 ABS Handle Vacuum Lifters.

Because this service relies on a continued source of parts to recondition, a remanufactured Vacuum Lifter is only available in exchange for another lifter. Minimum order is one each.



Exchange This (Worn)



For This (Reconditioned)



CAT. NO. XCS106VHP



CAT. NO. XCS338



CAT. NO. XCS108



CAT. NO. XCS109

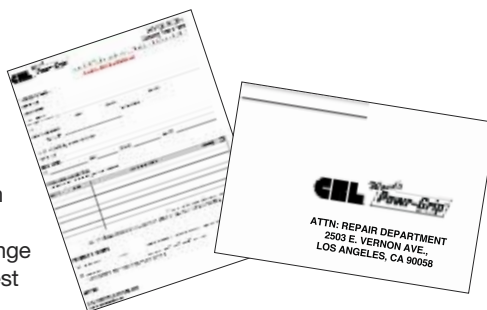


CAT. NO. XCS110

Your CRL Vacuum Lifter is a valuable tool, but like any other frequently used item it can wear out or become damaged. Your options at this point are to replace it (costly), or repair it (time-consuming). CRL now offers an alternative that saves both time and money – the CRL Exchange Program. Bring your worn Vacuum Lifters to any C.R. Laurence warehouse or send it there by UPS or mail. We replace it with a factory reconditioned lifter, normally within 24 hours, at a price that beats buying a new one, and is comparable (and quicker) than having it repaired. We can perform this service at each of our conveniently located warehouses, reducing turnaround and shipping times. Remanufactured (exchanged) Vacuum Lifters meet exacting factory specifications and pass the same tests as new ones.

CRL Web Site Forms and Address Labels

If you are unable to bring your CRL Vacuum Lifters to a CRL warehouse location, please visit our web site, crlaurence.com and enter "EXCHANGE FORMS" in the search box. There you will be guided to our page where you can download and print our exchange form as well as a shipping label for your nearest CRL warehouse.



CRL Vacuum Handling Equipment Repair Service

- **Keep Your Vacuum Lifting Equipment Safe**

C.R. Laurence Co. also offers a repair service to keep all your vacuum handling equipment in safe operating condition. We are the only authorized service center for Wood's Powr-Grip® products. To arrange repairs, please contact CRL Customer Service Department by e-mail at glazing@crlaurence.com or call us in the U.S. at (800) 421-6144, from Canada at (877) 421-6144, or (323) 588-1281 International, and ask for extension 5275.

Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc.



CRL HAND HELD VACUUM LIFTERS

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CRL Octopus 70 Single Pad Suction Lifter

- Pump Action Type
- Includes Plastic Carrying Case
- 152 mm Diameter



Available Only in Europe

Lifting Capacity
70 kg (154 Lbs.)



The CRL Octopus 70 Single Pad Suction Lifter is a pump action type for applying suction to glass or other smooth, nonporous flat surfaces. Pump incorporates a suction loss warning device. Supplied in a heavy-duty plastic carrying case. 152 mm (6") diameter pad. Lifting capacity is approximately 70 kilograms (154 lbs.). Minimum order is one each.

CAT. NO. 0504

CRL Octopus 150 Single Pad Suction Lifter

- Pump Action Type
- Includes Plastic Carrying Case
- 203 mm Diameter



Available Only in Europe

Lifting Capacity
150 kg (330 Lbs.)



The CRL Octopus 150 Single Pad Suction Lifter is a pump action type for applying suction to glass or other smooth, nonporous flat surfaces. Pump incorporates a suction loss warning device. Supplied in a heavy-duty plastic carrying case. 203 mm (8") diameter pad. Lifting capacity is approximately 150 kilograms (330 lbs.). Minimum order is one each.

CAT. NO. 0505

CRL Octopus 150W Single Pad Suction Lifter With Gauge

- Built-in Pressure Gauge
- Pump Action Type
- Includes Plastic Carrying Case
- 203 mm Diameter



Available Only in Europe

Lifting Capacity
150 kg (330 Lbs.)



The CRL Octopus 150W Single Pad Suction Lifter is a pump action type with a Built-in Pressure Gauge to monitor vacuum while lifting glass or other smooth, nonporous flat surfaces. Supplied in a heavy-duty plastic carrying case. 203 mm (8") diameter pad. Lifting capacity is 150 kilograms (330 lbs.). Minimum order is one each.

CAT. NO. 0510

CRL Octopus Accessories and Replacement Parts



Available Only in Europe



Carrying Case
CAT. NO. 0510B



Replacement Piston
CAT. NO. 0530
For 70 Series
CAT. NO. 0531
For 150 Series



Replacement Miniskirt
CAT. NO. 0534
For 70 Series
CAT. NO. 0535
For 150 Series

Minimum order for all Replacement Parts is one each.



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An Industry Standard for Over 45 Years

When a tool maintains its presence as a professional quality necessity to the glazing industry year after year, you know it's reliable. Every aspect of these CRL Vacuum Cups is heavy-duty for long-term performance. Strong aluminum castings, thick cut-resistant rubber and rugged trigger components add up to one tough tool. Whether your lifting glass, polished stone or any other smooth non-porous material, you can depend on CRL 5" (127 mm) Heavy-Duty Vacuum Cups to do the job safely.

CRL 5" Heavy-Duty Double Vacuum Cup

- Classic Style Cup
- Industry Proven

Lifting Capacity
125 Lbs. (56 kg)



Two 5" (127 mm) rubber gripping pads make this Double Vacuum Cup the most practical way to put a handle on glass, marble, granite or any smooth-surface material. It has many uses including for setting mirrors, removing salvage, handling structural glass, and weighs only 3-1/2 lbs. (1.6 kg). Minimum order is one each.

CAT. NO. 550

CRL 5" Heavy-Duty Triple Vacuum Cup

- The Professional Glazier's Choice
- Heavy-Duty

Lifting Capacity
150 Lbs. (68 kg)



For a more positive grip on glass, try the CRL 5" (127 mm) Heavy-Duty Triple Vacuum Cup. The third 5" (127 mm) cup gives added grip, which enables the glass setter to maneuver the glass without changing the position of the cups. They are made of the same sturdy material and same size rubber as the double cup models. Minimum order is one each.

CAT. NO. 555

CRL 5" Heavy-Duty Cross-Handle Double Vacuum Cup

- An Industry Proven Cup
- Solid Construction



Lifting Capacity
100 Lbs. (45 kg)

Made with the same solid construction as the CRL Double Cup (above), the cross-handle design features the handle across the width rather than the length. This is the ideal lifter for those who prefer the handle in this position. It weighs 4 lbs. (1.8 kg). Minimum order is one each.

CAT. NO. 550A

CRL 5" Heavy-Duty Single Vacuum Cup

- All-Metal Construction
- Convenient Handle Position
- Great for Smaller Size Plates



Lifting Capacity
40 Lbs. (19 kg)

This heavy-duty, single 5" (127 mm) Vacuum Cup is ideally suited for small plates and mirrors. Minimum order is one each.

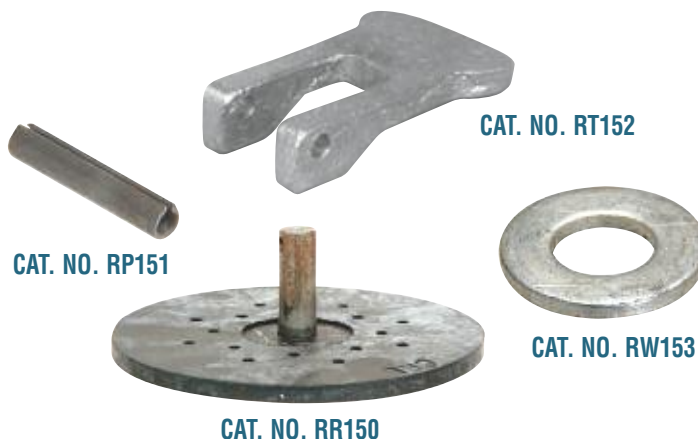
CAT. NO. 505

CRL 5" Heavy-Duty Vacuum Cup Replacement Parts

CRL 5" (127 mm) Vacuum Cups were engineered to make the ordering of replacement parts as easy as possible. All of the above cups use the same replacement parts listed here.

CAT. NO.	DESCRIPTION
RR150	5" (127 mm) Replacement Rubber
RT152	Replacement Trigger and Pin
RP151	Replacement Pin Only
RW153	Replacement Washer (Under Trigger)

Minimum order: 1 each.



CAT. NO. RT152

CAT. NO. RP151

CAT. NO. RW153

CAT. NO. RR150

How to Use CRL Vacuum Cups Use only on clean, dry surfaces. Place securely on flat substrate and push down vacuum lever. Do not relieve pressure until lever is completely down. When not in use, keep lever in released (upright) position. Oil lever frequently. Keep rubber disc clean; wipe occasionally with water and mild soap solution. If vacuum cup pad is cut or severely worn, replace immediately.

CRL Aluminum Single Pad Vacuum Lifter



Lifting Capacity
66 Lbs. (30 kg)



- **Compact Design**
- **One-Handed Operation**

The split-handle design of the CRL Aluminum Single Pad Vacuum Lifter allows you to securely attach the pad to surfaces by simply pressing against the glass, then squeezing the two handle sections together. Also suitable for slightly curved or textured surfaces. The pad diameter is 4-1/2" (114 mm). Minimum order is one each.

CAT. NO. 05061

CRL Aluminum Double Pad Vacuum Lifter



Lifting Capacity
132 Lbs. (60 kg)



- **Handle Design Allows Easy Maneuvering**
- **Strong, Lightweight Aluminum**

The CRL Aluminum Double Pad Vacuum Lifter is suitable for all types of loads. Made with a combination of synthetic material and the high strength of lightweight aluminum, it has a powerful lifting capacity of 132 lbs. (60 kg). It's suitable for slightly curved or textured surfaces. The pad diameter is 4-1/2" (114 mm). Minimum order is one each.

CAT. NO. 05062

CRL Aluminum Movable Double Pad Vacuum Lifter



Lifting Capacity
132 Lbs. (60 kg)



- **Movable Pads Self-Adjust to Curved Glass**
- **Suitable for Glass, Plastic, Metal, Coated Wood, Marble, and Any Other Smooth, Airtight Surface**

Tested to high standards, the lightweight CRL Aluminum Double Vacuum Lifter with movable pad design attaches quickly to curved glass during use. Tilting over the levers creates a vacuum suction to the substrate. Always check for resistance caused by the vacuum build-up while doing this to ensure proper attachment is made. The lifting capacity is 132 lbs. (60 kg). The pad diameter is 4-1/2" (114 mm). Minimum order is one each.

CAT. NO. 05064

CRL Aluminum Triple Pad Vacuum Lifter



Lifting Capacity
220 Lbs. (100 kg)



- **Three Suction Pads Individually Operated**
- **Strong, Lightweight Aluminum**

Tilting over the three levers of the CRL Aluminum Triple Pad Vacuum Lifter produces a huge 220 lb. (100 kg) lifting capacity. As with all CRL Aluminum Vacuum Lifters, the ergonomically designed handle remains comfortable even through long use. The durable metal construction and hard coating make it tough enough for everyday use and years of reliable service. The pad diameter is 4-1/2" (114 mm). Minimum order is one each.

CAT. NO. 05063

CRL Replacement Rubber Pad for Vacuum Lifters

- **4-1/2" (114 mm) Diameter Pad Fits Both Our Plastic and Aluminum Vacuum Lifters**
- **Lever Included**

This CRL Replacement Pad is compatible with both our Plastic and Aluminum Vacuum Lifters. It is 4-1/2" (114 mm) in diameter and the lever is included. To order just the Lever and Pin only use Cat. No. RR0506LVR. Minimum order is one each.



CAT. NO. RR0506

CRL Plastic Single Pad Vacuum Lifter

Lifting Capacity
66 Lbs. (30 kg)



- **Lightweight Plastic Design**
- **One-Handed Operation**

Our lightweight CRL Plastic Single Pad Vacuum Lifter is easy to attach with its split-handle design for one-hand operation. For its weight and size, it is one of the highest capacity Lifters we sell, developing over 66 lbs. (30 kg) of lift. The pad will adhere to any smooth, non-porous surface. This is a simple, reliable, easy-to-use Vacuum Lifter. Minimum order is one each.

CAT. NO. 05061P

CRL Plastic Double Pad Vacuum Lifter

Lifting Capacity
132 Lbs. (60 kg)



- **Two Individually Operated Pads**
- **Lightweight Plastic Body**

The lightweight plastic body makes this easy to use on almost any surface. Individual lift tabs create suction when pulled down. To release you merely lift the tab upright. The Plastic Double Pad Vacuum Lifter has a load capacity of 132 lbs. (60 kg). The pad diameter is 4-1/2" (114 mm). Minimum order is one each.

CAT. NO. 05062P

CRL Plastic Double Swivel Vacuum Lifter

Lifting Capacity
132 Lbs. (60 kg)



- **Plastic Handle and Double 4-1/2" (114 mm) Vacuum Pads**
- **Movable Pads Self-Adjust to Curved Glass**

The CRL Double Swivel Vacuum Lifter is specially designed for lifting flat glass as well as the positioning and fitting of windshields or truck and bus glass. The strong, plastic body has double-swivel points to allow fast attachment to a wide variety of curved and flat surfaces. Replacement rubber pads for this cup are Cat. No. RR911. Lifting capacity is approximately 132 lbs. (60 kg). Minimum order is one each.

CAT. NO. 911VC

CRL Plastic Triple Pad Vacuum Lifter

Lifting Capacity
220 Lbs. (100 kg)



- **Three Suction Pads Individually Operated**
- **Lightweight Plastic Design**

This plastic-body lifter has three pads that operate individually. Pulling the individual tabs on the pads down creates the suction on the substrate. To release, the tabs are pulled to the upright position. The Vacuum Lifter can be used on almost any substrate. It has the load capacity of approximately 220 lbs. (100 kg). The pad diameter is 4-1/2" (114 mm). Minimum order is one each.

CAT. NO. 05063P

CRL Safety Gloves

From Glass Handling Gloves to Work Gloves to Nitrile and Latex Gloves, CRL provides you with the most up-to-date products in the industry. From the very popular CRL Gauntlet Cuff Natural Rubber Gloves to the latest cut protection Atlas® and Nitrile Textured Gloves, CRL offers the various glove styles you need for all glass fabrication and general work requirements. See pages 264K-271K.

Atlas is a registered trademark of Showa Glove Company.



CRL WOOD'S™ HAND HELD VACUUM CUPS

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CRL Wood's Powr-Grip® 8" Vacuum Cup

- Durable Metal Handle
- Fast Attachment on Smooth, Nonporous Flat Surfaces
- Red-Line Indicator Warns User of Any Vacuum Loss
- Check Valve Allows Re-Pumping Without Loss of Remaining Vacuum
- Release Valve Lever Permits Quick, Complete Release
- Eligible for Exchange Program

CRL proudly offers you our Cat. No. W4950, the most popular and safest model of CRL Wood's hand held Vacuum Cups available on the market today. These specially designed, hand actuated cups operate on a pump system, and create a vacuum under the rubber pad. The pump's plunger has a red-line to indicate vacuum level at all times. When it shows less than 100% vacuum, simply pump the plunger until you reach the original vacuum pressure without removing the cup from the glass. To release, just depress the release lever on the opposite end of the handle from the plunger. These cups come with a release valve guard to prevent accidental loss of vacuum. Cat. No. W4950 has an 8" (203 mm) diameter vacuum pad, and comes with a molded Carrying Case to protect the cup when not in use. Minimum order is one each.



Lifting Capacity
125 lbs. (57 kg)



CAT. NO. W4950



Vacuum Cups employ the force of atmospheric pressure to grip a surface: When a vacuum exists between the cup and the surface on which it is attached, the weight of Earth's atmosphere holds the cup in place with incredible force. Unlike suction cups that produce a vacuum as they pull away from the surface, Powr-Grip® Vacuum Cups use a hand-actuated pump to efficiently remove air from between the rubber pad and the attaching surface – thus creating a much more reliable hold. Because the full face of the pad is brought into contact with the surface, distortion is reduced, allowing the cup to be used on materials of almost any thickness with little risk of damage.

CRL Wood's Air-Powered 8" Vacuum Cup

- For Use in Many Manufacturing Applications
- No Pumping Required, Uses Compressed Air to Supply Continuous Vacuum
- Release Mechanism Permits Quick and Complete Release
- Durable Metal Handle

When you combine a Wood's Powr-Grip® Cup with a compressed air supply, the result is a tool that provides a better way to manually handle glass on production lines. The W4950A1R Vacuum Cup attaches quickly without any pumping, and it never needs to be re-pumped during operation. The red-line vacuum indicator and continuous vacuum source also make this vacuum cup much safer than the slap-on suction cups sometimes used in such settings. The 8" (203 mm) diameter vacuum pad is supplied with a protective Carrying Case. Compressed air required at 3 SCFM (85 liters/minute) at 80 psi (550 kPa). Minimum order is one each.

All Wood's™ Vacuum Cups can be combined for quantity pricing.

Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc.



Lifting Capacity
125 lbs. (57 kg)



CAT. NO. W4950A1R



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CRL Wood's Powr-Grip® 9" Vacuum Cups

Lifting Capacity
150 lbs. (68 kg)

- Durable Metal Handle
- Red-Line Indicator Warns User of Any Vacuum Loss
- Check Valve Allows Re-Pumping Without Loss of Remaining Vacuum
- Release Valve Lever Permits Quick and Complete Release
- Eligible for Exchange Program

In addition to all of the advantages of our Cat. No. W4950 8" (203 mm) diameter Vacuum Cup, the Cat. No. W5450 and W5450CS 9" (229 mm) diameter Vacuum Cups feature a higher lifting capacity for glass, and a pad with flexible edges to handle Plexiglass and other materials that may bend when lifted. The W5450CS has a more concave rubber pad designed to lift both curved and flat loads including flat glass, bent glass, and auto glass.

As with all CRL Wood's Powr-Grip® Vacuum Cups, the red-line indicator warns users of any vacuum loss, and the built-in release valve lever with guard permits quick and complete release from surfaces. Supplied with a protective Carrying Case. All Wood's Vacuum Cups can be combined for quantity pricing. Minimum order is one each.



CAT. NO. W5450



Concave
Rubber Pad

CAT. NO. W5450CS

CRL Wood's Powr-Grip® 10" Vacuum Cup

Lifting Capacity
175 lbs. (79 kg)

- Durable Metal Handle
- Deep, Concave Pad for Easy Attachment on Curved or Irregular Non-Porous Surfaces (Not for Use on Thin, Fragile Materials)
- Red-Line Indicator Warns User of Any Vacuum Loss
- Check Valve Allows Re-Pumping Without Loss of Remaining Vacuum
- Release Valve Lever Permits Quick and Complete Release
- Eligible for Exchange Program

Designed for use with curved or bent glass, the concave vacuum pad of our Cat. No. W6450 10" (254 mm) diameter Powr-Grip® Vacuum Cup is indispensable for heavy lifting all kinds of rounded loads, with radii as small as 13" (330 mm). In addition, this Vacuum Cup has even greater lifting capacity than other CRL Wood's Powr-Grip® models. Although distorting forces are minor, it is not recommended for use on thin, fragile materials. Supplied with a protective Carrying Case. All Wood's Vacuum Cups can be combined for quantity pricing. Minimum order is one each.



CAT. NO. W6450

CRL Wood's Powr-Grip® Protective Carrying Cases

- Protects and Preserves Cups for Optimum Performance

Made of high-impact plastic, these CRL Wood's Powr-Grip® Vacuum Cup Carrying Cases will protect and preserve your Cups to keep them safe and clean. Each Case is made to fit a specific diameter Wood's Powr-Grip® Vacuum Cup.

CAT. NO.	MAXIMUM CUP DIAMETER
4950BOX	8" (203 mm)
5450BOX	9" (229 mm)
6450BOX	10" (254 mm)

Minimum order: 1 each.

Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc.



CRL WOOD'S™ HAND HELD VACUUM CUPS

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CRL Wood's Powr-Grip® Plunger Assembly With Low Vacuum Audio Alarm

• Durable, Metal-Clad Plunger Emits an Audible Warning in the Case of a Vacuum Loss

The Low Vacuum Audio Alarm adds another dimension of safety to handling materials with Powr-Grip's® world-famous Vacuum Cups. In addition to the visible red-line indicator, the plunger incorporates an audible indicator to signal any vacuum loss. In applications where it is difficult to maintain visual confirmation of the vacuum level, the Audio Alarm provides the security of knowing that vacuum is sufficient for lifting. With automatic on/off function, the Audio Alarm is as simple to operate as any standard Powr-Grip® cup. Minimum order is one each.

FEATURES:

- Ideal for use with Hand Cup Frames, the Ace Dolly, and other products that incorporate hand cups not held by the user.
- Available with any new W-Series Vacuum Cup (including Cat. No. W4000, W4950, W5450, and W6450), or separately for Powr-Grip® hand cups currently in the field.
- Advanced design automatically turns alarm on or off as necessary, eliminating power switch, increasing battery life, and simplifying operation.
- Comes complete with long-lasting, easy-to-replace AAA battery.



CAT. NO. WBP1

SPECIFICATIONS:

- Volume: 70 dBA at 36" (914 mm)
- Power Source: one AAA, 1.2-1.5 volt battery; automatic on/off function
- Battery Life: provides 30 hours of continuous tone

CRL Wood's Powr-Grip® 8" Vacuum Cups With Low Vacuum Audio Alarm

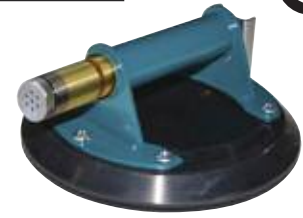
• 8" (203 mm) Vacuum Cups With Two Handle Type Options

CRL Wood's 8" (203 mm) diameter Vacuum Cups are available in a lightweight, heavy-duty ABS handle or durable metal handle. The Cups are easily attached to smooth, nonporous flat surfaces. The red-line indicator provides user with visual warning of any vacuum loss. Low Vacuum Audio Alarm supplements visual red-line indicator with an audible indicator, increasing peace of mind in circumstances that make it difficult to monitor the visual indicator. Advanced design automatically turns Audio Alarm on or off as necessary, eliminating power switch, increasing battery life, and simplifying operation. Release valve lever permits quick and complete release. Supplied with protective Carrying Case. Minimum order is one each.



CAT. NO. W4000WBP

8" (203 mm) Cup with ABS Handle



CAT. NO. W4950WBP

8" (203 mm) Cup with Metal Handle

Lifting Capacity
125 lbs. (57 kg)



CRL Wood's Powr-Grip® 9" Vacuum Cup With Low Vacuum Audio Alarm

• Flexible Vacuum Pad Edge for Materials That May Bend or Flex When Lifted • 9" (229 mm) Diameter

CRL Wood's 9" (229 mm) diameter Vacuum Cups are available with a durable metal handle. Low Vacuum Audio Alarm supplements visible red-line indicator with an audible indicator, adding a measure of safety in circumstances that make it difficult to monitor the visual indicator. Plunger emits an audible warning to the user and others, in the case of a vacuum loss. Advanced design automatically turns Audio Alarm on or off as necessary, eliminating power switch, increasing battery life, and simplifying operation. Check valve allows re-pumping without loss of vacuum. Release valve lever permits quick and complete release. Supplied with protective Carrying Case. Minimum order is one each.



CAT. NO. W5450WBP

9" (229 mm) Cup with Metal Handle

Lifting Capacity
150 lbs. (68 kg)



CRL Wood's Powr-Grip® 10" Vacuum Cup With Low Vacuum Audio Alarm

• Deep Concave Pad for Curved or Irregular Surfaces • 10" (254 mm) Diameter

This CRL Wood's 10" (254 mm) diameter Vacuum Cup is available with a heavy-duty metal handle. They have deep, concave pads for easy attachment on curved or irregular nonporous surfaces. Not for use on thin, fragile materials. The minimum radius for curved loads is 13" (330 mm). Low Vacuum Audio Alarm supplements visible red-line indicator with an audible indicator, increasing peace of mind in circumstances that make it difficult to monitor the visual indicator. Advanced design automatically turns Audio Alarm on or off as necessary, eliminating power switch, increasing battery life, and simplifying operation. Release valve lever permits quick and complete release. Supplied with protective Carrying Case. Minimum order is one each.

All Wood's™ Vacuum Cups can be combined for quantity pricing.

Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc.



CAT. NO. W6450WBP

10" (254 mm) Cup with Metal Handle

Lifting Capacity
175 lbs. (79 kg)



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CRL Wood's Powr-Grip® 8" ABS Handle Vacuum Cup

- Lightweight, Heavy-Duty ABS Handle
- Check Valve Allows Re-Pumping Without Loss of Remaining Vacuum
- Release Valve Lever Permits Quick and Complete Release
- Fast Attachment on Smooth, Nonporous Flat Surfaces
- Red-Line Indicator Warns User of Any Vacuum Loss
- Supplied With Protective Carrying Case
- Eligible for Exchange Program

The W4000 is a value priced Vacuum Cup for use with flat glass. The ABS polymer used in the pump and handle makes the Cup lightweight, strong, and rust-resistant. A red-line on the pump's plunger indicates the vacuum level of the W4000. When the 8" (203 mm) diameter Cup is attached completely, the plunger is partially hidden inside the pump and the red-line is not visible. A visible red-line indicates vacuum is not sufficient for lifting. If the red-line starts to show during a lift, a check valve allows the user to re-pump the Vacuum Cup without losing the remaining vacuum. When the lift is completed, a release mechanism allows air to refill the evacuated space under the Vacuum Pad, so that release is complete.



CAT. NO.	DESCRIPTION	LIFTING CAPACITY
W4000	8" (203 mm) ABS Handle Vacuum Cup	125 lbs. (57 kg)

Minimum order: 1 each.

CRL Wood's Powr-Grip® Hybrid Handle Vacuum Cups

- Easy Attachment on Smooth, Nonporous Surfaces
- Durable Metal Handle With ABS Plunger
- Red-Line Indicator Warns User of Any Vacuum Loss
- Rust-Resistant Components

CRL Wood's Vacuum Cups with Hybrid Plunger/Handles combine Powr-Grip's® lightweight ABS plunger, durable metal handle, and rubber vacuum pad to create a heavy-duty, rust resistant cup for use in humid or wet environments. Reliable and economical, these vacuum cups work for handling windows and other flat glass products, as well as for handling stone slabs in fabrication settings. A built-in check valve allows re-pumping without loss of vacuum, and a release lever permits quick and complete release. Supplied with protective Carrying Case.



CAT. NO.	DESCRIPTION	LIFTING CAPACITY
H4300	8" (203 mm) Hybrid Handle Vacuum Cup	125 lbs. (57 kg)
H5300	9" (229 mm) Hybrid Handle Vacuum Cup	150 lbs. (68 kg)
H6300	10" (254 mm) Hybrid Handle Vacuum Cup*	175 lbs. (79 kg)

Minimum order: 1 each. * Designed for use with curved surfaces. Do not use for thin, fragile materials.

CRL Wood's Powr-Grip® Textured Surface Vacuum Cups

- 8" (203 mm) Diameter Cup Specifically Designed for Patterned or Irregular Glass
- Available in Two Models (Metal or ABS Handle)

The CRL Wood's Powr-Grip® Textured Surface Cup features a softer vacuum pad with a larger sealing edge specifically designed for irregular surfaces such as textured glass. The 8" (203 mm) diameter pad is made of a low durometer rubber, so the cup will attach to most textured surfaces, and carries a 75 lb. (34 kg) lifting capacity. Available in two styles: Cat. No. TS8M Metal Handle; Cat. No. TS8P ABS Handle. Both Cups are supplied with a protective Carrying Case.

NOTE: Although made specifically for patterned or irregular glass, the Cup can not be guaranteed to work on materials having extreme surface variations.

All Wood's™ Vacuum Cups can be combined for quantity pricing.

Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc.



CAT. NO. TS8M
Metal Handle Cup



CAT. NO. TS8P
ABS Handle Cup

CAT. NO.	DESCRIPTION	LIFTING CAPACITY
TS8M	8" (203 mm) Metal Handle Textured Surface Vacuum Cup	75 lbs. (34 kg)
TS8P	8" (203 mm) ABS Handle Textured Surface Vacuum Cup	75 lbs. (34 kg)

Minimum order: 1 each.

CRL Wood's Powr-Grip® 6" Vertical Handle Vacuum Cup

- Durable Metal Handle, Designed for Convenient Hand Placement
- Handle Position is Ideal for Use With Windshields
- Large-Volume Pump for Quick Attachment on Curved or Flat Surfaces
- Red-Line Indicator Warns User of Any Vacuum Loss
- Lift Tabs on Pad Edges Permit Instant Release
- Eligible for Exchange Program
- Available With Standard or Low Vacuum Audio Alarm Plunger



Lifting Capacity
70 lbs. (32 kg)

The ideal tool for removing or installing windshields or custom bent glass, the W6100 Wood's Powr-Grip® 6" (152 mm) Vertical Handle Vacuum Cup provides comfortable hand placement when ordinary handles can't. Its large volume pump permits quick attachment on both curved and flat glass surfaces. A rigid handle provides support for easy glass positioning, while non-slip grip holds the glass securely at any angle. The flexible cup conforms to the surface, then flattens out, providing maximum gripping power. Supplied with vacuum pad protector.

CAT. NO.	DESCRIPTION
W6100	Cup With Standard Plunger
W6100WBP	Cup With Low Vacuum Audio Alarm Plunger

Minimum order: 1 each. All Wood's Cups can be combined for quantity pricing.

CRL Wood's Powr-Grip® 6" Rigid Handle Vacuum Cups

- Offset, Fixed Handle Helps Prevent Load From Swinging or Changing Orientation When Lifted
- Strong Enough for Most Jobs, Yet Small Enough to Fit in a Tool Box
- Red-Line Indicator Warns User of Any Vacuum Loss
- Lift Tabs on Pad Edges Permit Instant Release



CAT. NO. W6250
For Flat Materials

Lifting Capacity
70 lbs. (32 kg)



CAT. NO. W6200
For Curved Materials

Compact and portable, these CRL Wood's Powr-Grip® 6" (152 mm) Rigid Handle Vacuum Cups put a handle where you want it on awkward, bulky items such as storm windows or shower doors. Cat. No. W6250 uses a flat pad for quick attaching on flat surfaces; the W6200 is for curved or flat surfaces. The rigid handle style is conveniently sized for use in the glass shop or at the installation site. Supplied with vacuum pad protector. Minimum order is one each.

Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc.

CRL Wood's Powr-Grip® 6" Flip Handle Vacuum Cups

- Flip-Over Bail Handle Permits Load to Swing or Change Orientation as Needed
- Red-Line Indicator Warns User of Any Vacuum Loss
- Lift Tabs on Pad Edges Permit Instant Release



Lifting Capacity
70 lbs. (32 kg)



CAT. NO. W6300
For Flat Materials



CAT. NO. W6350
For Curved Materials



CAT. NO. TL6TD
Flat or Curved Materials

The narrow profile of the CRL Wood's Powr-Grip® 6" (152 mm) Flip Handle Vacuum Cups makes them an excellent tool for pulling glass sheets from narrow storage locations, as well as for general purpose handling. Cat. No. W6300 uses a flat pad for quick attachment on flat surfaces; the W6350 and the TL6TD are for curved or flat surfaces. They are large enough for most manual lifts, yet small enough to fit in a toolbox. This makes them convenient to use in the glass shop or at the installation site. Supplied with vacuum pad protector. Minimum order is one each.

CRL Wood's Powr-Grip® Vacuum Cup Exchange Program

- Your Safety is Our Concern-Never Use Unsafe Vacuum Cups
- Conserve Resources-Exchange Your Powr-Grip® Vacuum Cup Instead of Replacing It
- Exchanges Available for Catalog Numbers W4950, W4000, W5450, W6450, and W6100
- Available From All C.R. Laurence Shipping Locations

C.R. Laurence offers an exchange service to keep your vacuum cups in safe operating condition. Exchanges may be made for 8" (203 mm) Cat. No. W4950 Metal Handle Vacuum Cups, 8" (203 mm) Cat. No. W4000 ABS Handle Vacuum Cups, 9" (229 mm) Cat. No. W5450 Metal Handle Vacuum Cups, 10" (254 mm) Cat. No. W6450 Metal Handle Vacuum Cups, and 6" (152 mm) Cat. No. W6100 Vertical Handle Vacuum Cups.



Exchange This (Worn)



For This (Reconditioned)



CAT. NO. XC4950



CAT. NO. XC4000



CAT. NO. XC5450



CAT. NO. XC6450



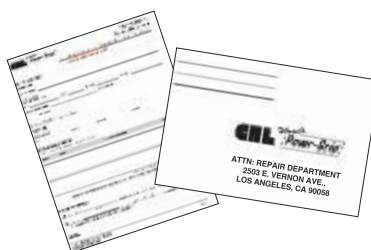
CAT. NO. XC6100

Your Wood's Powr-Grip® might be one of your most valuable tools, but like any other frequently used item it can wear out or become damaged. Your options at this point are to replace it (costly), or repair it (time-consuming). CRL now offers an alternative that saves both time and money—the CRL Wood's Powr-Grip® Exchange Program. Bring your worn Powr-Grip® Vacuum Cups to any C.R. Laurence warehouse or send it there by UPS or mail. We replace it with a factory reconditioned cup, normally within 24 hours, at a price that beats buying a new one, and is comparable (and quicker) than having it repaired. We can perform this service at each of our conveniently located warehouses, reducing turnaround and shipping times. Remanufactured (exchanged) vacuum cups meet the exact factory specifications and pass the same tests as new ones.

EXCHANGE CAT. NO.	DESCRIPTION
XC4950	8" Metal Handle Vacuum Cup
XC4000	8" ABS Handle Vacuum Cup
XC5450	9" Metal Handle Vacuum Cup
XC6450	10" Metal Handle Vacuum Cup
XC6100	6" Vertical Handle Vacuum Cup

CRL Web Site Forms and Address Labels

If you are unable to bring your Powr-Grip® Vacuum Cups to a CRL warehouse location, please visit our web site, crlaurence.com and enter "exchange forms" in the search box. There you will be guided to our page where you can download and print our exchange form, as well as a shipping label for your nearest CRL warehouse.



CRL Vacuum Handling Equipment Repair Service

- Keep Your Vacuum Lifting Equipment Safe

C.R. Laurence also offers a repair service to keep all your vacuum handling equipment in safe operating condition. We work with Wood's Powr-Grip® (the only authorized service center for Wood's Powr-Grip® products) to service your equipment, big or small. To arrange repairs, please contact CRL Customer Service Department by e-mail at glazing@crlaurence.com or call us in the U.S. at (800) 421-6144, from Canada at (877) 421-6144, or (323) 588-1281 International, ask for extension 5275.

Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc.



CRL WOOD'S™ HAND HELD VACUUM CUPS

For Pricing Visit crlaurence.com or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

CRL Wood's Powr-Grip® Handi-Grip™ Vacuum Cups

• Rugged and Convenient Aluminum Handles

CRL Wood's Powr-Grip® Vacuum Cups with Handi-Grip™ handles are designed to easily lift and position a wide variety of items including windshields, stone tiles, and sheet materials. They are available in styles for gripping smooth, curved, or flat nonporous surfaces. The red-line indicator warns the user of any vacuum loss, and a check valve allows re-pumping without loss of the remaining vacuum. Lift tabs on the pad edges permit instant release. Each Cup comes with a vacuum pad protector.



CAT. NO. LJ45HG



CAT. NO. TL6HG



CAT. NO. LP6HG

CAT. NO.	DIAMETER	FOR SURFACES	LIFTING CAPACITY
LJ45HG	4-1/2" (114 mm)	Smooth, Flat or Curved	40 Lbs. (18 kg)
TL6HG	6" (152 mm)	Smooth, Flat or Curved	70 Lbs. (32 kg)
LP6HG	6" (152 mm)	Smooth or Flat	70 Lbs. (32 kg)

Minimum order: 1 each.

CRL Wood's Powr-Grip® Vacuum Cups With Threaded Holes and Studs

• Durable Polycarbonate Accessory Mount Vacuum Cups for Attaching Equipment

These versatile CRL Wood's Powr-Grip® 4-1/2" (114 mm) and 6" (153 mm) Mounting Cups provide a reliable, temporary fastener on almost any smooth, curved, or flat nonporous surface such as metal or glass. Choose from either Cat. Nos. LJ45AMP or TL6AM with a 1/4"-20 x 3/8" (9.5 mm) stud or Cat. No. LJ45AMC with 1/4"-20 threaded insert. All feature a red-line indicator to warn users of any vacuum loss, and check valves that allow re-pumping without the loss of the remaining vacuum. Cups come with a vacuum pad protector. Minimum order is one each.



CAT. NO. LJ45AMP



CAT. NO. LJ45AMC



CAT. NO. TL6AM

CAT. NO.	DIAMETER	FOR SURFACES	LIFTING CAPACITY
LJ45AMP	4-1/2" (114 mm)	Smooth or Flat	40 Lbs. (18 kg)
LJ45AMC	4-1/2" (114 mm)	Smooth or Flat	40 Lbs. (18 kg)
TL6AM	6" (152 mm)	Smooth, Flat or Curved	70 Lbs. (32 kg)

Minimum order: 1 each.

CRL Wood's Powr-Grip® 10" Vacuum Cup With Mounting Plate

• Big 10" Concave Vacuum Cup for Attaching Equipment

This CRL Wood's Powr-Grip® 10" (254 mm) Concave Vacuum Cup attaches to flat and curved surfaces with a minimum radius of 13" (330 mm). The aluminum accessory mount has both 1/4"-20 and 3/8"-16 thread tapped holes for attaching equipment. The red-line indicator warns of vacuum loss. Supplied with a vacuum pad protector. Minimum order is one each.



Lifting Capacity
175 lbs. (79 kg)

CAT. NO. N6000NP

All Wood's™ Vacuum Cups can be combined for quantity pricing.
Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc.



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CRL Wood's Powr-Grip® Low Marking Vacuum Cup

new

- Low-Marking Rubber Compound Will Not Mark or Stain Most Surfaces
- Lipped Vacuum Pad Attaches Faster and Easier to Nonporous Flat Surfaces
- Red-Line Indicator Warns User of a Significant Vacuum Loss
- Cast Metal Handle

Lifting Capacity
125 lbs. (57 kg)



CRL Wood's Powr-Grip® Low Marking Vacuum Cup features all the advantages of the original W Series metal cups plus additional benefits: a cast metal handle provides improved comfort and corrosion-resistance, a lipped vacuum pad attaches faster and easier to all kinds of flat glass products, including pattern glass, and low-marking rubber compound makes glass clean-up simple. Supplied with a protective carrying case. 8" (203 mm) diameter. Minimum order is one each.

CAT. NO. W4800LM

CRL Wood's Powr-Grip® High-Elevation Vacuum Cup

new

- Designed for Use at Elevations Up to 12,000 Feet (3658 m)
- Blue Plunger Enables User to Distinguish This Vacuum Cup From Standard Cups

Lifting Capacity
100 lbs. (45 kg)



For years, there has been a void in the vacuum lifting market when it comes to performance at higher elevations. CRL Wood's Powr-Grip's® W4100 is a new breed of vacuum cup that is specifically designed to fill this void and function at elevations up to 12,000 feet (3658 m).

The W4100 features a lightweight, rugged ABS handle that helps prevent user fatigue. It attaches rapidly to smooth, flat nonporous surfaces ranging from glass to metal. While in use, the CRL Wood's Powr-Grip® red-line indicator warns the user of any loss of vacuum. The W4100 is supplied with a protective carrying case. 8" (203 mm) diameter. Minimum order is one each.

CAT. NO. W4100

CRL 7" Curved Glass Vacuum Cup

new

- Ideal for Use on Windshields
- Red-Line Indicator Warns User of Any Vacuum Loss
- Durable Metal Handle and Brass Plunger
- Concave Pad for Curved Surface

Lifting Capacity
70 lbs. (32 kg)



The ideal tool for removing or installing windshields or custom bent glass, the CRL 7" Curved Glass Vacuum Cup provides comfortable and secure handling of glass with its unique style metal handle. Concave pad allows attachment to curved glass found on automobile windshields and can also be used on flat surfaces. Red-Line indicator on brass plunger warns user of any vacuum loss. Lift tab on the edge of the pad permits instant release. Minimum order is one each.

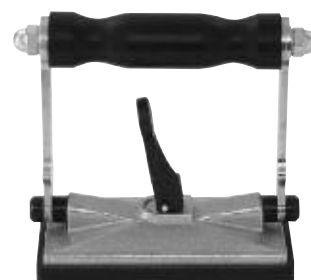
CAT. NO. WH9601HP7B

CRL Rectangular Single Suction Cup

new

- Unique Rectangular Shape Pad
- Swivel Handle
- 6-1/4" x 3-1/2" Pad

Lifting Capacity
40 lbs. (18 kg)



The powerful suction created by this CRL Rectangular Single Suction Cup can lift small to moderate loads of glass, sheet metal, plastic, or just about any material that has a flat, non porous surface. The rectangular 6-1/4" x 3-1/2" (159 x 89 mm) surface of this cup permits attachment to shapes that are otherwise not permitted by standard round profile vacuum cups. Its large swivel handle assures a positive grip, and the large distance from handle to cup allows users to wear gloves. Strong aluminum body casting, thick cut-resistant rubber pad, and rugged trigger add up to one tough tool. Minimum order is one each.

CAT. NO. WH9601S

Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc.

CRL Wood's Powr-Grip® Vacuum Cups With Nukklehead Mount

CRL Wood's Powr-Grip® Vacuum Cups with the Nukklehead Mount allow attachment of cameras, scopes, and camcorders with standard 1/4"-20 threads using a Bogen Manfrotto® Model 155 Camera Mount. It mounts photographic umbrellas in screw-down side receptacles as it provides a reliable, temporary vacuum mount without drilling holes. It attaches to most flat or curved smooth, nonporous surfaces. The red-line indicator warns the user of any vacuum loss, and the check valve allows you to re-pump without losing any of the remaining vacuum. Lift tabs on the vacuum pad edges allow instant release from the surface. Supplied with a vacuum pad protector.



- Accessory Mount With Double Ball-Joint Head for Panning, Tilting, and Rotating
- Standard 1/4"-20 Thread

CAT. NO.	CUP DIAMETER	LOAD CAPACITY
TL6PH155	6" (152 mm)	8.9 Lbs. (4 kg)
LJ45PH155	4-1/2" (114 mm)	8.9 Lbs. (4 kg)

Minimum order: 1 each. All Wood's Vacuum Cups can be combined for quantity pricing.

CRL Wood's Powr-Grip® Vacuum Cups With Gripper Head

The CRL Cat. No. TL6PH3025 comes with a black aluminum accessory mount, while the Cat. No. LJ45PH3025 comes with ABS accessory mount. Both have fully adjustable pan-and-tilt heads. Features a Bogen™ Model 3025 camera head mount to mount cameras, scopes, and camcorders with standard 1/4"-20 threads to provide a reliable, temporary vacuum mount without drilling holes. This mounting device attaches to flat or curved smooth, nonporous surfaces. The rubber vacuum pad will not mark or damage most surfaces. The red-line indicator warns the user of any vacuum loss, and the check valve allows re-pumping without loss of remaining vacuum. Supplied with a vacuum pad protector.



- Bogen™ Camera Mount With 1/4"-20 Thread
- Lift Tabs Permit Instant Release

CAT. NO.	CUP DIAMETER	LOAD CAPACITY
TL6PH3025	6" (152 mm)	6.7 Lbs. (3 kg)
LJ45PH3025	4-1/2" (114 mm)	6.7 Lbs. (3 kg)

Minimum order: 1 each. All Wood's Vacuum Cups can be combined for quantity pricing.

CRL Wood's Powr-Grip® Vacuum Cup With Cleat Head

Use this CRL Wood's Powr-Grip® Vacuum Cup With Cleat Head to mount cameras, scopes, and camcorders with standard 1/4"-20 threads to provide a reliable, temporary vacuum mount without drilling holes. The 4-1/2" (114 mm) rubber vacuum pad will not mark or damage flat or curved smooth nonporous surfaces. The red-line indicator warns the user of any vacuum loss, and the check valve allows re-pumping without loss of the remaining vacuum. Lift tabs on the vacuum pad edges permit instant release. Supplied with a vacuum pad protector. Minimum order is one each.



- Durable Black Polycarbonate Accessory Mount
- Fully Adjustable Pan-and-Tilt Head
- Load Capacity: 10 Lbs. (5 kg)

CAT. NO. LJ45PHC

CRL Wood's Studs

- Adapter to Mount Photographic Lights
- Two Sizes Available



Use with Cleat, Gripper, Nukklehead or other mounting cups to mount photographic lights on almost any smooth nonporous surface. Choose from Cat. No. AS375 3/8" (9.5 mm) diameter by 2" (51 mm) length, or Cat. No. AS625 5/8" (16 mm) diameter by 3" (76 mm) length to fit on 1/4"-20 studs.

CAT. NO.	DIAMETER	LENGTH
AS375	3/8" (9.5 mm)	2" (51 mm)
AS625	5/8" (16 mm)	3" (76 mm)

Minimum order: 1 each.

CRL Thread Converter

- U.S. to European Thread Conversion



Mounting cup accessory converts 1/4"-20 U.S. thread to 3/8"-16 European thread. Minimum order is one each.

CAT. NO. W60102

CRL Wood's T-Handle

- Fits 1/4"-20 Studs



Use these CRL Wood's T-Handles with most mounting cups to aid in the placement and positioning of small loads. 2-3/8" (60 mm) width by 1-1/4" (32 mm) height handle. Minimum order is one each.

CAT. NO. 1TLT

Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc. Manfrotto is a registered trademark of Lino Manfrotto + Co. S.P.A.

CRL Glass Handler Kit

- Allows One Man to Set Large Windshields
- Reduces Back Strain

The CRL Glass Handler Kit is the ultimate tool for setting auto glass. Ergonomic handle design allows for easier sets without strain on arms and back. Foam elbow pad rests on hood/cowl area for pivot point, which reduces strain. Replacement pumps are available order Cat. No. 90111.



The Glass Handler Kit contains: Two 6" (152 mm) diameter Pump-Actuated Vacuum Cups, Foam Block Elbow Pad, Suction Cup Lubrication, and an Instruction Video, all packed in a sturdy plastic Carrying Case. Minimum order is one each.

CAT. NO. K1T1710

CRL Lil Buddy® Junior Suction Cups

- Unique Locking Handle
- Red Line Safety Indicator
- 6-1/2" (165 mm) Diameter

The CRL Lil Buddy® Junior Suction Cups are designed for use with the Lil Buddy® Pro Windshield Setting System (see page 395K), but the special properties of these cups make them useful for any automotive or light flat glass application. The cushioned, ergonomic 'D' handle mechanically lifts and locks into place activating the vacuum as it locks. The locking action automatically pulls in the safety plunger to verify vacuum. Special release triggers in the base of the mechanism allow the handle to fold down and release the vacuum.



CRL Lil Buddy® Junior suction cups are sold in pairs only and come packaged in a padded carrying case. These 6-1/2" (165 mm) cups are rated at 50 lbs. (22.7 kg) each. Minimum order is one pair.

CAT. NO. LBJ2

CRL All Rubber 6" Auto Vacuum Cup

- The Perfect Tool for Handling Curved Windshields and Backlites

The CRL All Rubber Auto Vacuum Cup provides the installer with the easiest way to handle windshields and backlites. They fit the contour of bent windshields and backlites to allow you to maneuver the glass into place, reducing the possibility of breakage by hitting the glass. Diameter of cup is 6" (152 mm). Minimum order is one each.



CAT. NO. CRL69

CRL Automotive Suction Cups

- Ideal for Dent Removal or Sheet Metal and Flat Panel Handling

CRL Automotive Suction Cups are ideal for auto glass shops. You can use them for many jobs, such as pulling out panel dents and lifting sheet metal, glass or plastic. The steel bar handle swivels and flexes, and will permit pulls with a chain, jack or other similar methods. The thick rubber pad is long-lasting and possesses great grip strength.

NOTE: Not recommended for use on curved auto glass.

Lil Buddy is a registered trademark of Lilbuddy, LLC.



CAT. NO. VC81810

6" (152 mm) Automotive Suction Cup



CAT. NO. 77131

8" (203 mm) Automotive Suction Cup

CRL Wood's™ Handi-Grip Vacuum Cup



- Lightweight and Compact
- Unique Oval Shape for Lifting Long or Narrow Objects
- Lifting Capacity 40 Lbs. (18 kg)

The CRL Wood's™ Handi-Grip 3" x 6" (76 x 152 mm) Vacuum Cup can lift small to moderate loads of glass, sheet metal, plastic, or just about any material that has a flat, non-porous surface. The oval shape of this cup permits attachment to shapes that are otherwise not permitted by standard profile vacuum cups. Its aluminum T-Handle assures a positive grip for added safety. The offset height of the handle lets users who prefer to wear gloves feel comfortable with this cup. Attachment of the RF36HG is accomplished by pumping the plunger several times to achieve its full vacuum. Releasing the cup is done by simply lifting the tabs on the side of the rubber pad. Minimum order is one each.

CAT. NO. RF36HG

CRL Double Cup Vacuum Lifters With Release Bar



- For One or Two-Handed Grips
- Great for Large Lites

The convenient CRL Double Cup Vacuum Lifter comes in 3", 4" and 5" (76, 102 and 127 mm) models. They are ideal for use when you are limited in space. The vacuum created by the dual cups allows easy lifting of heavy weights. The suction is broken only when the fingertip-operated bar is lifted.

CAT. NO.	CUP DIAMETER	MAXIMUM LIFT CAPACITY
VC6520	3" (76 mm)	30 Lbs. (13 kg)
VC6540	4" (102 mm)	50 Lbs. (22 kg)
VC6541	5" (127 mm)	75 Lbs. (34 kg)

Minimum order: 1 each. Sizes can be combined for quantity pricing.

CRL 4" Vacuum Cup With Handle



- 12" (305 mm) Long Handle
- Push Button Release
- Lifting Capacity 6 Lbs. (2.7 kg)

The CRL 4" (102 mm) Vacuum Cup With Handle has the strength to grip and hold dry or oiled sheet metal, glass, plastic and other smooth-surface materials that weigh up to 6 lbs. (2.7 kg). The featured pistol grip design permits easy and positive holding, even with bulky work gloves, and it releases quickly. Not only is this tool versatile and responsive, but the precision-fabricated metal components also make it extremely durable.

CAT. NO.	CUP DIAMETER	MAXIMUM LIFT CAPACITY
VC6470	4" (102 mm)	6 Lbs. (2.7 kg)

Minimum order: 1 each.

CRL Single Cup Vacuum Lifters With Release Trigger



- Convenient Handle Design
- Single-Finger Release

Generally used for the loading, unloading, stacking, and shifting of sheet products, CRL Single-Cup Vacuum Lifters can protect you from cuts on your hands and gloves. Production time is increased by the easy application and removal of this cup. The release valve is triggered by a single finger so you can keep a good grip on the handle at all times.

CAT. NO.	CUP DIAMETER	MAXIMUM LIFT CAPACITY
VC1859	4" (102 mm)	25 Lbs. (11 kg)
VC1912	5" (127 mm)	35 Lbs. (16 kg)

Minimum order: 1 each. Sizes can be combined for quantity pricing.

CRL Pick-Up Stick and Valve Grinder Lifter

- Finger-Operated Plunger in Handle
- Ideal for Lifting and Positioning Small Materials
- 3 Lb. (1.3 kg) Lifting Capacity



CAT. NO. PU0950
1-1/4" (32 mm) Pad



CAT. NO. V1275
1-1/4" (32 mm) Pad

These Vacuum Lifters are ideal for lifting and positioning small materials. They provide easy-grip handles for critical placement during assembly operations, such as framing pictures, assembling printed circuit boards or lapping valves. Minimum order is one each.

CRL 2-1/8" Little Grabber Lifter

- Single Finger Handle Provides Precise Control
- 4 Lb. (1.8 kg) Lifting Capacity



This CRL Little Grabber Lifter is ideal for light objects or raising corners for a better grip. It is always handy and ready for use while leaving one hand free for other work. It is made from tough rubber compound. 2-1/8" (54 mm) diameter pad with release tabs. Minimum order is one each.

CAT. NO. VC1230

CRL 3" Compact T-Handle and Threaded Insert Vacuum Lifters

- Fast Application and Removal Time
- 15 Lb. (7 kg) Lifting Capacity



CAT. NO. TL3TH



CAT. NO. TL3AM

The CRL T-Handle Lifter is compact and quick-attaching for accurate positioning of small items. Cat. No. TL3AM has a 1/4"-20 threaded insert for a multitude of applications. Both are designed for gripping flat or curved smooth, non-porous surfaces. The concave pad diameter is 3" (76 mm). Includes pad protector. Minimum order is one each.

CRL 3-1/4" Knuckle Saver Lifter

- Comfortable Finger Handle Reduces Fatigue
- 10 Lb. (4.5 kg) Lifting Capacity



The CRL Knuckle Saver Lifter features a two-finger grip for extra lifting capacity and a 3-1/4" (83 mm) diameter pad with release tabs. Minimum order is one each.

CAT. NO. VC3825

CRL 3-1/4" Grifter Vacuum Lifter

- Solid Rubber Design
- 15 Lb. (7 kg) Lifting Capacity



The CRL Grifter is an all-rubber cup designed for quick and easy lifting and positioning of lightweight, smooth, non-porous objects. It features a concave 3-1/4" (83 mm) pad. Minimum order is one each.

CAT. NO. G609

CRL 3-1/4" Push-Button Vacuum Lifter

- Push-Button Release Speeds Production
- 10 Lb. (4.5 kg) Lifting Capacity



The CRL Push-Button Vacuum Lifter features sturdy construction and a fast-action, metal push-button release valve for the safe and speedy handling of smooth-surface materials. The full handgrip improves the operator's gripping ability, while also allowing greater freedom of movement. The pad has a diameter of 3-1/4" (83 mm). Minimum order is one each.

CAT. NO. VC2260

CRL Glass Dolly

- 350 Pound (159 kg) Weight Capacity
- Wood Frame Construction
- Felt Pads to Protect the Glass
- Tough Phenolic Wheels

Use the CRL Plate Glass Dolly to move glass easier, and faster from upright storage. The hardwood stock has a 1-1/2" (38 mm) wide groove to handle single or multiple lites. The balanced arrangement of casters allows you to turn-on-a-dime so you can use it in restricted spaces. Two thick felt pads are located near each end to cushion the load. All wheels and casters are made of tough phenolic plastic and roll on ball bearings. An ideal dolly for moving insulating glass units, safety glass, mirrors, plastics, or marble. The Dolly has a 350 lb. (159 kg) capacity. **NOTE:** Not available in Australia.



• Three Sizes Available



72" (1829 mm)



60" (1524 mm)



36" (914 mm)



CAT. NO. PGD260



CAT. NO. PGD270



CAT. NO. PGD280



CAT. NO. PGD290



CAT. NO. PGD300

COMPLETE DOLLIES

CAT. NO.	LENGTH	WIDTH	HEIGHT
13063	36" (914 mm)	5" (127 mm)	6-3/4" (171 mm)
13065	60" (1524 mm)	5" (127 mm)	6-3/4" (171 mm)
13066	72" (1829 mm)	5" (127 mm)	6-3/4" (171 mm)

Minimum order: 1 each. Sizes can be combined for quantity pricing.

DOLLY REPLACEMENT PARTS

CAT. NO.	DESCRIPTION
PGD260	Swivel End Caster
PGD270	5/8" (16 mm) Axle 6" (152 mm) Dia. Center Wheel (Older Style Dollies)
PGD280	1/2" (13 mm) Axle 5" (127 mm) Dia. Center Wheel (Current Models)
PGD290*	Replacement Felt Pads (Pair)
PGD300	Complete Two Wheel Center Caster

Minimum order: 1 each. *Minimum order: 1 pair.

CRL All Terrain Dolly

- Goes Where Other Glass Dollies Won't
- Heavy Welded Aluminum Construction
- 16" Diameter (406 mm) Two-Ply Pneumatic Tire
- Built-in 8" (203 mm) Wood's™ Powr-Grip® Vacuum Cup
- Includes Set of CRL RB200 Rolling Blocks

CRL's All Terrain Dolly is like having an extra person on the job site. Moving large glass lites, insulating units, patio door panels, and even stone slabs across any terrain is now a snap. Curbs, door sills, and scrap lumber are no longer obstacles when your crew is using the CRL All Terrain Dolly. Its large 16" (406 mm) diameter pneumatic tire won't bog down in the grass or dirt, common to residential and commercial job sites. This handy device also eliminates back and arm strain associated with carrying heavy loads suspended over long distances.

Included is a Wood's 8" (203 mm) diameter Powr-Grip® Vacuum Cup and a set of Cat. No. RB200 Roller Blocks to protect the cargo's edges once unloaded. The Roller Blocks are stored conveniently inside the frame of the All Terrain Dolly so you always know where to find them. Maximum capacity: 400 lbs. (181 kg). Minimum order is one each.



CAT. NO. ATD1
All Terrain Dolly



Patent Pending



CAT. NO. RB200
Roller Blocks (Included)

CRL Heavy-Duty Steel Frame Glass Dolly

- 600 Pounds (272 kg) Weight Capacity
- Sturdy Steel Construction
- Two Sizes Available
- Large Pneumatic Tires

CRL Heavy-Duty Steel Frame Glass Dollies can be used indoors or outside for transporting heavy plate glass or insulated units. The large 8-1/2" (216 mm) diameter pneumatic tires will roll smoothly, even over rough surfaces. Constructed from a rubber lined, 3" wide x 1/4" thick (76 x 6 mm), heavy steel channel which supports the glass 5-1/2" (140 mm) off of the floor. Wheels are set 12" (305 mm) apart to provide stability.



CAT. NO. 2401280



CAT. NO. 2401281

CAT. NO.	OVERALL LENGTH	CAPACITY
2401280	48" (1219 mm)	600 lbs. (272 kg)
2401281	72" (1829 mm)	600 lbs. (272 kg)

Minimum order: 1 each.

Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc.

CRL Framed Glass Handling Dolly

- 300 Lb. (136 kg) Capacity
- Perfect for Framed Glass, Storefront Doors or Almost Any Flat Surfaced Item



With the CRL Framed Glass Handling Dolly, heavy items such as storefront doors, framed windows, storm windows, I.G. units, or just about any other flat surfaced item can be easily moved in an upright position. The dolly is adjustable to widths from 2-1/2" to 4-1/2" (63 to 114 mm), and the steel carriage is carpeted to prevent marring. Minimum order is one each.

CAT. NO. LD450

CRL Glasstrax Dolly

- 600 Lb. (275 kg) Capacity
- Self Clamping Action Locks Loads Up to 2" (50.8 mm) Thick
- One Person Can Load and Maneuver

The CRL Glasstrax Glass Dolly makes it easier than ever to move heavy glass lites smoothly and safely. Load your glass centered on the Glasstrax and the weight of the glass will automatically pull the rubber lined side walls together, clamping it in place. The more weight loaded, the tighter the grip. Self-adjusting for glass or doors up to 2" (50.8 mm) thick. Minimum order is one each.



CAT. NO. GT02

CRL Camber Glass Dolly

- 600 Lb. (275 kg) Capacity
- Great for Shops of All Sizes



The CRL Camber Glass Dolly is designed for transporting smaller lites of glass within the shop environment, or from your truck to the delivery site. This Dolly has two 8" (203 mm) diameter, solid rubber wheels and a vulcanized rubber frame channel, which protects the glass against chipping or damage while in the process of being moved. The inside width of the channel measures 3-1/8" (79 mm); overall length of the channel is 20" (508 mm). Minimum order is one each.

CAT. NO. GSD1

CRL Four Wheel Glass Dolly

- 700 Lb. (320 kg) Capacity
- Four Wheels for Extra Stability



This CRL Four Wheel Glass Dolly is designed to provide additional stability while transporting lites of glass within the shop environment or from your truck to the delivery site. The Dolly has two 8" (203 mm) diameter solid rubber wheels and two caster wheels attached to a vulcanized rubber frame channel, which protects the glass against chipping or damage while in the process of being moved. The inside width of the channel measures 3-1/8" (79 mm); overall length of the channel is 20" (508 mm). Minimum order is one each.

CAT. NO. GSD3

CRL Self-Locking Dolly

- 880 Lb. (399 kg) Capacity

This CRL Self-Locking Dolly is designed with "self-locking jaws" for transporting lites of glass within the shop environment or from your truck to the delivery site. The "all-terrain" Self-Locking Dolly has 11" (279 mm) diameter solid rubber wheels and a vulcanized rubber frame channel, which protects the glass or stone against chipping or damage while in the process of being moved. The inside width of the channel is 4" (102 mm); overall length of the vulcanized rubber "V" channel is 20" (508 mm). Minimum order is one each.

- Self-Locking Jaws Grip Tightly



CAT. NO. GSD2

CRL Long Glass Dolly

- 750 Lb. (340 kg) Capacity for Larger Loads

This CRL Long Glass Dolly is designed with an extra-long trolley channel and bottom-mounted third wheel to provide improved stability. This Dolly can transport longer lites of glass within the shop environment or from your truck to the delivery site. The Long Dolly has two 9-1/2" (240 mm) diameter solid rubber wheels and a vulcanized rubber frame channel, which protects the glass against chipping or damage. The inside width of the channel measures 3-1/8" (79 mm); overall length of the channel is 36" (914 mm). Minimum order is one each.



CAT. NO. GSD4

CRL Pry Dollies

- Strong, Hardwood Handle
- Large 5" (127 mm) Diameter Steel Wheels

These CRL Pry Dollies are designed to move extra heavy or cumbersome crates, cases of glass, or heavy machinery. The 5" diameter x 2" wide (127 x 51 mm) steel wheels provide a smooth roll, while the 5" wide x 3/8" thick (127 x 9.5 mm) bevelled nose lifting plate offers plenty of prying strength. What makes this Pry Dolly truly amazing is the extremely strong, straight-grained hardwood handle. **NOTE:** Not available in Australia.



CAT. NO.	LIFTING CAPACITY	LENGTH
16001001	3,500 lbs. (1588 kg)	60" (1524 mm)
16001003	5,000 lbs. (2268 kg)	84" (2134 mm)

Minimum order: 1 each.

CRL Mule Pry Truck

- 5,000 Pound (2268 kg) Capacity
- 7' (2.1 m) Steel Handle

This CRL Mule Pry Truck is designed to move extra heavy or cumbersome crates, cases of glass, or heavy machinery. The Mule Pry Truck has two 4" diameter x 2" wide (102 x 51 mm) phenolic wheels and a 4" wide x 1/2" thick (102 x 12.7 mm) bevelled nose lifting plate. Minimum order is one each.



CAT. NO. 585

CRL Low Floor Dolly

- 2,000 Pound (907 kg) Capacity
- Raised Textured Top Resists Slipping

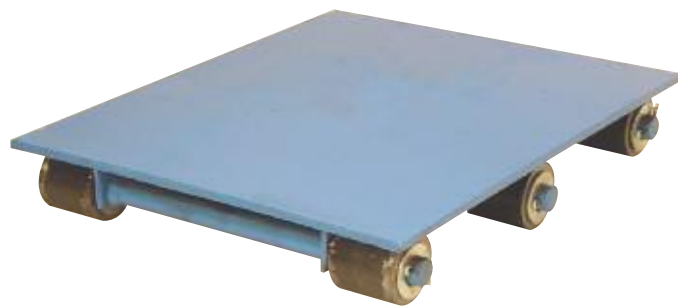


The CRL Low Floor Dolly is only 4-1/2" (114 mm) tall, yet this strong roller dolly can handle the heaviest loads. The top is 12" long x 10" wide (305 x 254 mm). Minimum order is one each.

CAT. NO. 5286

CRL Low Profile Case Dolly

- 4,000 Pound (1814 kg) Capacity
- Six Solid Steel Ball Bearing Wheels



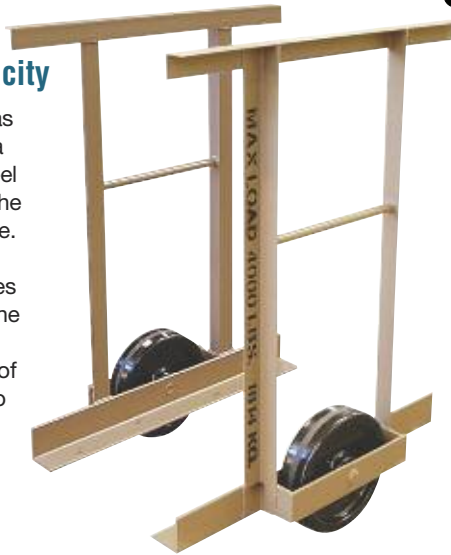
The CRL Low Profile Case Dolly is only 3-1/2" (89 mm) tall. This dolly has a unique six-wheel design, in that the two center wheels are set slightly lower, allowing the Dolly to turn or pivot within it's own length. The top is 22-1/2" long x 17-1/4" wide (572 x 438 mm). Minimum order is one each.

CAT. NO. 253CD

CRL Split Case Dolly

- Designed for Transporting Large Cases of Plate Glass
- 4,400 Pound (1996 kg) Capacity

The CRL Split Case Dolly is designed as two separate carrying frames, each with a 12" diameter x 3" wide (305 x 76 mm) steel ball bearing wheel. The upper portion of the frame is made from 2" (51 mm) steel angle. It stands 47" tall and is 34" in length (1194 x 864 mm). The lower angle provides a 3" (76 mm) lip to support each side of the bottom edge of the glass crate. Once the glass crate is lifted, move the two halves of the dolly to the sides of the crate, close to the middle, and lower the crate onto the lower supporting angle. Once loaded into the Split Case Dolly even glass crates weighing as much as 4,400 pounds (1996 kg) can be moved about your shop with relative ease. Minimum order is one pair. Must ship common carrier.



CAT. NO. 050

CRL Rol-A-Lift Hydraulic Glass Crate Truck

- Makes Open-End Case Storage and Handling Easy
- Lifts Crates Up to 12" (305 mm) Off the Floor
- Swivel Casters Allow for Maneuvering in Tight Places



Front View



Back View



Sold Individually

The CRL Rol-A-Lift Hydraulic Jack is ideal for moving large crates of glass or other heavy objects. A pair of Rol-A-Lifts will lift large crates up to 4,000 pounds (1814 kg), up to 12" (305 mm) off the floor. Rol-A-Lifts can be used in tandem, and optional nylon straps are available as shown below. The overall height is 44" (1118 mm); the width is 23" (584 mm); the weight is 163 pounds (74 kg). Sold individually. Minimum order is one each. Must ship common carrier.

CAT. NO. M4R0L

CRL Rol-A-Lift Nylon Tie Straps

- For Use With M4R0L Rol-A-Lift

These heavy-duty Nylon Straps for use with Cat. No. M4R0L (shown above) have steel "D" Ring Brackets on each end, and come with a ratchet clamp to tighten and lock the strap securely. All Straps have a 3,000 pound (1360 kg) working load limit. When moving large crates with two dollies, two Straps are required. Straps can be joined for extra large crates.

CAT. NO.	LENGTH
97501	12' (3.6 m)
97520	20' (6.1 m)

Minimum order: 1 each.



CRL Six Wheel Fabrication Carts

- **3,200 Pound (1451 kg) Capacity**
- **Easy Mobility and Zero Turning Radius**
- **Welded, Galvanized Steel**

CRL Six Wheel Fabrication Carts are designed for easy movement and storage in tight confines. A load capacity rated at 3,200 pounds (1451 kg) makes these CRL Fabrication Carts ideal for fabricated parts, stock sheets, or cases. Each Cart features two large wheels in the center of the frame and two locking swivel casters on each end, allowing for tight 90 degree turns. With load deck heights of 13-1/4" (337 mm) on the FC48 and 14-3/4" (375 mm) on the FC82, chances of back strain and stress are reduced during loading and unloading. All contact surfaces on these Carts are lined with heavy rubber strips to prevent slipping and damage to materials. Ratchet straps are provided to secure material during movement or transport. Forklift slots are incorporated into the welded base.



CAT. NO.	SIZE (LENGTH X WIDTH X HEIGHT)	LOAD HEIGHT
FC48	48" x 25" x 53" (1219 x 635 x 1346 mm)	42" (1067 mm)
FC82	82" x 25" x 73" (2083 x 635 x 1854 mm)	60" (1524 mm)

Minimum order: 1 each. F.O.B. Woodstock, Illinois. Must ship common carrier.

CRL One Stop A-Frames

- **2,200 Pound (1000 kg) Capacity**
- **Two Eyelets Allows for Pick Up by an Overhead Crane**



Available Only in Australia

CRL One Stop A-Frame is a sturdy structure, designed to eliminate any risk of tipping over. Glass is placed on a special rubber profile and secured with four ratchet securing bars. Contains an extra storage section in the center, which is ideal for storing tools, etc. Rack has built-in slots on all sides for forklift transport. Four 6" (152 mm) heavy-duty removable casters are included.



CAT. NO.	SIZE (LENGTH X WIDTH X HEIGHT)
CRL83100	60-5/8" x 38-3/8" x 50-9/16" (1540 x 975 x 1285 mm)
CRL81100	71-1/4" x 43-5/16" x 62-3/8" (1810 x 1100 x 1585 mm)
CRL84100	71-1/4" x 43-5/16" x 78-1/8" (1810 x 1100 x 1985 mm)
CRL87100	86-1/4" x 43-5/16" x 78-1/8" (2190 x 1100 x 1985 mm)

Minimum order: 1 each. Must ship common carrier.

CRL Glass Slab Buggy

- **Sturdy Steel Frame is Stable and Compact - Fits Through Doors**
- **Supports Up to 800 Pounds (363 kg)**



Available Only in Australia

The CRL Glass Slab Buggy is ideal for transporting and storing glass in a warehouse or shop environment, as well as on the job site. It has pneumatic tires that allow it to roll on uneven surfaces, and swivel casters for easy turning in tight spaces. Rubber lined contact surfaces protect finished pieces and prevents slipping during movement.



CAT. NO.	SIZE (LENGTH X WIDTH X HEIGHT)
7265	48-13/16" x 25" x 45-11/16" (1240 x 635 x 1160 mm)

Minimum order: 1 each. Must ship common carrier.

CRL Double-Sided Block Glass Barrow

- **Safe Working Load: 3,600 Pounds (1633 kg)**



Available Only in Australia

CRL Double-Sided Block Glass Barrow is designed for handling cut-to-size and loose sheets of glass up to 55" (1400 mm) high, and block glass. The Barrow is compatible with block glass loading grabs, and can be supplied with clamping systems for on-site work. Optional Cat. No. G4100SC Retaining Bars are available to secure loads.



Shown with
Optional Clamp
System

CAT. NO.	SIZE (LENGTH X WIDTH X HEIGHT)
G4100	60-1/4" x 35-13/16" x 63" (1530 x 910 x 1600 mm)

Minimum order: 1 each. Must ship common carrier.

CRL Single-Sided Block Glass Barrow

- **Safe Working Load: 3,600 Pounds (1633 kg)**



Available Only in Australia

CRL Single-Sided Block Glass Barrow is designed for handling cut-to-size and loose sheets of glass up to 55" (1400 mm) high, and block glass. The Barrow is compatible with block glass loading grabs, and can be supplied with clamping systems for on-site work. Heavier load bearing wheels available upon request.



CAT. NO.	SIZE (LENGTH X WIDTH X HEIGHT)
G4102	60-1/4" x 24-7/16" x 63" (1530 x 620 x 1600 mm)

Minimum order: 1 each. Must ship common carrier.

CRL Heavy-Duty Shop Carts

- **Rugged 4,000 Pound (1814 kg) Capacity**
- **8" (203 mm) Casters: Two Rigid, Two Swivel With Brake**
- **Heavy Rubber Lining on All Contact Surfaces**
- **2" (51 mm) Wide Polyester Ratchet Straps**

CRL Heavy-Duty Shop Carts are the answer to all your in-shop fabrication, storage, shipping, and receiving needs. Sturdy steel construction, and an open frame design allow easy visual check of the product. These Carts are perfect for moving product from one production stage to another, receiving vendor products prior to storage, the staging of product prior to shipping, or loading for job sites.

All three sizes feature a hot-dipped galvanized finish, heavy rubber lining on all contact points, and pull handles mounted on one end for easy maneuverability. The HDSC5448 has 11-1/2" (292 mm) ledge depth while the two larger carts both offer 10-1/4" (260 mm) ledge depth.



CAT. NO. HDSC5448



CAT. NO. HDSC8448



CAT. NO. HDSC8472

CAT. NO.	LENGTH	WIDTH	LOAD HEIGHT	OVERALL HEIGHT	STRAPS PER SIDE	WEIGHT
HDSC5448	54" (1372 mm)	38" (965 mm)	48" (1219 mm)	62" (1575 mm)	2	215 lbs. (97 kg)
HDSC8448	84" (2134 mm)	40" (1016 mm)	48" (1219 mm)	63" (1600 mm)	3	360 lbs. (163 kg)
HDSC8472	84" (2134 mm)	40" (1016 mm)	72" (1829 mm)	87" (2210 mm)	3	460 lbs. (209 kg)

Minimum order: 1 each. F.O.B. Woodstock, Illinois. Must ship common carrier.

CRL Single-Sided Shop Cart

- **2,000 Pound (907 kg) Capacity**
- **Maneuverable in Tight Areas**
- **Two 10" (254 mm) Pneumatic Tires and Two 5" (127 mm) Solid, Locking Casters**

The CRL Single-Sided Shop Cart is designed for shop and job site use. The combination of 5" (127 mm) locking swivel casters and 10" (254 mm) pneumatic tires, mounted outside of the welded steel frame for stability, make this Cart highly maneuverable in tight areas. Measuring 24" (610 mm) wide, 40" (1016 mm) long and 36" (914 mm) working load height, this Cart is perfect for job site elevators and the tight aisles in busy fabrication shops. All upright contact points are lined with neoprene rubber and the ledge depth is 6" (152 mm). Minimum order is one each. Ships F.O.B. Woodstock, Illinois. Must ship common carrier.



CAT. NO. 2401282

CRL Glass Transport Racks

- 4,000 Pound (1814 kg) Capacity
- Rubber Padding on All Contact Surfaces
- 16-3/4" (425 mm) Ledge Depth and Durable Hot-Dipped Galvanized Finish
- Removable Casters (Sold Separately)



End Pick Up

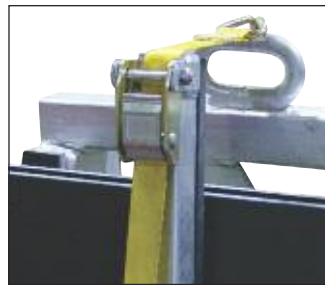


Side Pick Up



CAT. NO. 2404482

Shown With Optional 2404479 Casters



Stake Locks



8" (203 mm)
Caster Kit

These CRL Glass Transport Racks are the strongest, safest racks in the industry. Available in 82" and 96" lengths, both Racks feature thick rubber padding on all contact surfaces, hot-dipped galvanized finish, multiple rubber lined stakes with ratchet tightened web strapping, and heavy cable eyes on each corner for crane lifting. Stakes are fitted into slots on the bottom of the ledge deck at 1/2" (12.7 mm) increments from front to back, ensuring secure pressure no matter the size of the load. Four-way forklift access permits a variety of loading and unloading options. Optional 8" (203 mm) Caster Kit converts stationary rack into mobile cart in less than a minute. Caster Kit includes two fixed casters, two swivel casters with locks, and four mounting posts with quick release pins.

CAT. NO.	LENGTH	WIDTH	LOAD HEIGHT	OVERALL HEIGHT	HEIGHT W/CASTERS	LEDGE DEPTH	STAKES PER SIDE	WEIGHT
2404482	82" (2083 mm)	44" (1118 mm)	48" (1219 mm)	58" (1473 mm)	69" (1753 mm)	16" (406 mm)	4	540 lbs. (245 kg)
2404481	96" (2438 mm)	44" (1118 mm)	60" (1524 mm)	70" (1778 mm)	81" (2057 mm)	16-3/4" (426 mm)	5	740 lbs. (336 kg)
2404479	8" Diameter Caster Kit With Mounting Posts and Quick Release Pins							

Minimum order: 1 each. F.O.B. Woodstock, Illinois. Must ship common carrier.

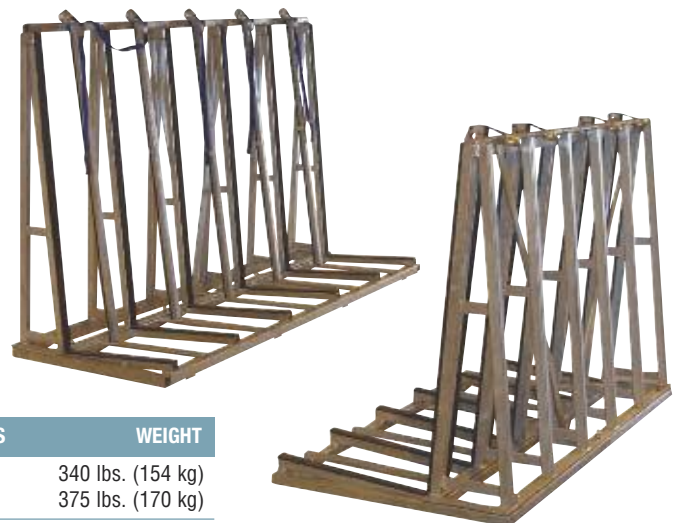
CRL Single-Sided Transport Racks

- Full Rubber Lining on All Contact Surfaces
- Durable Hot-Dipped Galvanized Finish

CRL Single-Sided Transport Racks are designed for use as internal racks for delivery and cube vans. The 16" (406 mm) ledge depth provides adequate space for glass, windows, doors, and anything else your project requires. These Racks feature full rubber lining on all contact surfaces, durable hot-dipped galvanized finish, and mounting pads for bolting directly to truck or van beds.

CAT. NO.	LENGTH	WIDTH	HEIGHT	STAKES	WEIGHT
TRSS2482	82" (2083 mm)	24" (610 mm)	50-1/2" (1283 mm)	4	340 lbs. (154 kg)
TRSS2496	96" (2438 mm)	24" (610 mm)	63" (1600 mm)	5	375 lbs. (170 kg)

Minimum order: 1 each. F.O.B. Woodstock, Illinois. Must ship common carrier.



CRL Tilting Crate Handler

- 4,000 Pound (1814 kg) Capacity
- Designed to Move Full Crates
- Solid Steel Construction

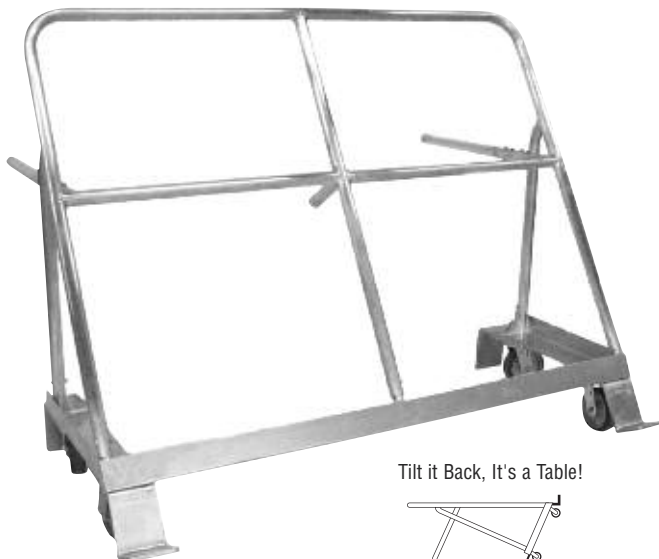
The CRL Solid Steel Tilting Crate Handler can lean forward to lift crates like a common dolly then lean back on to its rollers for moving the crates throughout the shop. This Handler has extending support arms which extend 24" (610 mm) on either end, increasing the load capacity to 120" (3048 mm) wide. The back support braces are adjustable for changing the tilt angle of the handler to increase the load capacity. Designed to carry loads up to 60" (1524 mm) high and 4,000 lbs. (1814 kg) in weight. This Handler measures 40" (1016 mm) wide, 72" (1829 mm) long (with extensions retracted), and 52" (1321 mm) high. Approximate shipping weight is 180 lbs. (82 kg). Ships dissassembled F.O.B. the nearest CRL service center. Minimum order is one each.



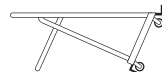
CAT. NO. AB

CRL Tilt Back Table Truck

- 4,000 Pound (1814 kg) Capacity
- Tilts Back to Become a Table



Tilt it Back, It's a Table!



With the CRL Tilt Back Table Truck you can move crates around the shop, or it can be tilted back 90 degrees (with ample manpower) to act as a 26" (660 mm) high table supported by strong steel rear legs and front tip-up shoes. With the truck in this position, it becomes a stable surface for marking, cutting or unloading of glass. Maximum truck capacity is 4000 lbs. (1814 kg). Truck measures 50" (1270 mm) wide, 72" (1829 mm) long, and 56" (1422 mm) high. Approximate shipping weight is 200 lbs. (90.7 kg). Ships dissassembled F.O.B. the nearest CRL service center. Minimum order is one each.

CAT. NO. AWL

CRL "Jumbo" Flat Crate Truck

- 4,000 Pound (1814 kg) Capacity
- Handles Jumbo Size Crates



This CRL Jumbo Crate Truck has the capability to move large crates with a maximum thickness up to 10" (254 mm) and a maximum height up to 72" (1829 mm). The heavy-duty tubular steel frame and the 6" (152 mm) diameter swivel casters (two locking) provide a maximum working capacity of 4,000 lbs. (1814 kg). This truck measures 48" (1270 mm) wide, 72" (1829 mm) long, and 73" (1854 mm) high. Shipping weight is 160 lbs. (72.6 kg). Ships dissassembled F.O.B. the nearest CRL service center. Minimum order is one each.

CAT. NO. J

CRL Hydraulic Boom Manipulator



- Can Be Knocked Down for Transporting and Re-Assembled in Minutes
- Reversible Boom With Minute Hydraulic Control
- 1,000 Pound (453 kg) Rating
- Large Wheels for Easy Rolling
- Manual Winch With 25' (7.6 m) Cable

OPTIONS AVAILABLE:

12 Volt DC Electric Winch with 25' (7.6 m) Winch Cable (Cat. No. R0WEWDC)

110 Volt AC Electric Winch with 25' (7.6 m) Winch Cable (Cat. No. R0WEW)

Ballast Containers - One pair (Cat. No. R0WBLS)

This innovative tool has a hydraulic controlled boom so you can set glass in place for glazing in difficult to reach positions. Used in conjunction with a vacuum lifting frame (not included, see pages 714K-715K), the CRL Hydraulic Boom Manipulator simplifies glass handling anywhere you use it. The boom can also be reversed, which extends the unit's reach. It is easily assembled without tools in only five minutes. You can knock down the unit and move it from floor to floor to glaze high-rise buildings from the inside. Simply lower the glass into position from one floor above using the standard manual winch. Put it in a pickup or van and move it from job to job. Electric Winch options are also available. The optional pair of movable ballast boxes keep it steady even under the maximum load of 1,000 lbs. (453 kg). Minimum order is one each. Shipping weight is 360 lbs. (163 kg). F.O.B. Cicero, Illinois. Must ship common carrier.



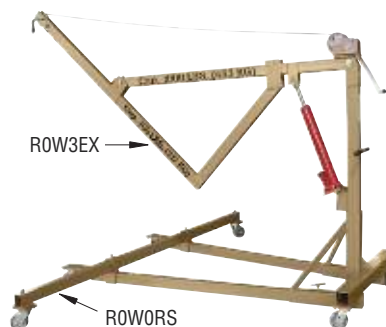
CAT. NO. R0W1

CRL Optional Extension Boom and Outrigger

This optional Extension Boom extends the vertical reach of your R0W1 Manipulator by 36" (914 mm). It bolts on in minutes. CRL can also make a vertical Boom Extension to your specifications which will extend the Boom's reach up to 133-1/2" (3.4 m). The Outrigger Support gives stability to the R0W1 when used with vertical Boom Extensions exceeding 36" (914 mm).

CAT. NO.	DESCRIPTION	WEIGHT
ROW3EX	36" (914 mm) Boom Extension	60 lbs. (27 kg)
ROWORS	Outrigger Support	90 lbs. (41 kg)

Minimum order: 1 each.



Vacuum Lifters and Frame sold separately

CRL Rolling Glass Manipulator

- Perfect for One Person Glass Transport and Installation
- Rotates Lites Up to 96" (2.4 m) Long
- Assembles in Minutes
- Unloads Glass Truck Racks and "A" Frames
- Extra Large 12" (305 mm) Vacuum Pads

Handling insulating glass and windows can be a back breaker due to the weight and size of the plates, as well as the uneven grounds at construction sites. CRL now offers the Rolling Glass Manipulator, an innovative small portable lifter that allows one person to move lites weighing up to 220 lbs. (100 kg) or two people up to 330 lbs. (150 kg). The RGM1 is lightweight and can easily be assembled in under a minute. Once assembled, the RGM1 can unload glass lites off your truck and then transport the lites on site. The wheelbase can be adjusted from 31-1/2" to 21-1/4", allowing for narrow on site walkways. The RGM1 allows the lite to be rotated 360 degrees, and then the operator can also index the lite allowing movement through standard 36" wide doorways. Minimum order is one each.

new



CAT. NO. RGM1

CRL Harp Rack

- Stores Full Size Plates or Cutoffs
- Glass Can Be Easily and Safely Retrieved
- Lightweight and Easy to Set Up
- Now With High-Density PVC Flooring



This 60RACK is normally stocked and ready to transfer to your closest CRL warehouse once your order is placed. We provide this service to offer you the convenience and benefit of a shorter lead time and lower shipping expense.

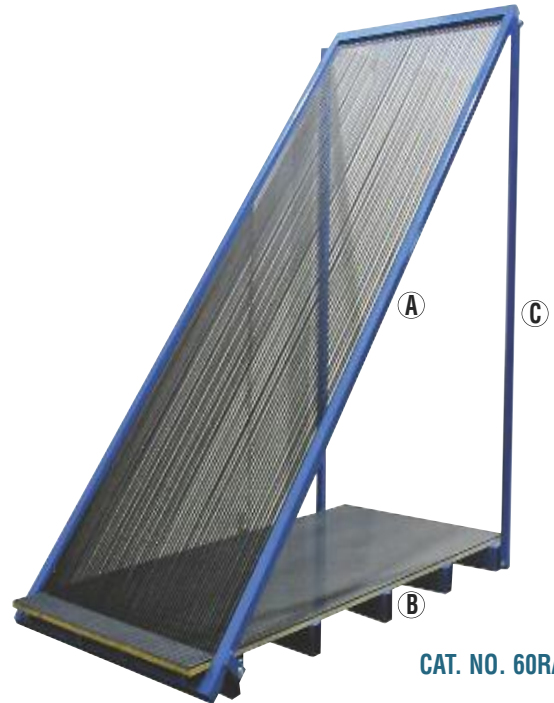
This CRL Harp Rack consists of a steel frame (A), attached at one end to grooved PVC Flooring (B), and supported at the other end by two channel columns (C). Steel rods are strung within the frame, each covered with a plastic sheath. The plate is slipped into the grooved PVC flooring and between the rods, which support the plate at all times. Free standing, it can be disassembled and moved. Additional units can be bolted to the frame, forming an integral storage unit. **NOTE:** Racks are heavy and require a forklift and/or loading dock for delivery. Must ship common carrier.

40RACK SPECIFICATIONS:

Number of Slots: 40
Slot Width: 7/16" (11.1 mm)
Maximum Glass Size: 120" x 96" (3048 x 2438 mm)
Width: 39" (991 mm)
Depth: 101-3/4" (2584 mm)
Inside Height: 97" (2464 mm)
Weight: 500 lbs. (227 kg)
 Ships KD F.O.B. Red Oak, Texas.

60RACK SPECIFICATIONS:

Number of Slots: 60
Slot Width: 7/16" (11.1 mm)
Maximum Glass Size: 120" x 96" (3048 x 2438 mm)
Width: 54" (1372 mm)
Depth: 101-3/4" (2584 mm)
Inside Height: 97" (2464 mm)
Weight: 600 lbs. (272 kg)
 Ships KD from nearest CRL location.



CAT. NO. 60RACK

CAT. NO.	NUMBER OF SLOTS
40RACK	40
60RACK	60

Minimum order: 1 each. Must ship common carrier.

CRL Rolling Glass Rack

- Store Up to 60 Pieces of Plate Glass as Large as 60" x 60" (1524 x 1524 mm)
- All-Steel Rack is Free Rolling

The CRL Rolling Glass Rack is a free rolling, 60 plate harp style rack with heavy-duty casters. It holds glass up to 60" x 60" (1524 x 1524 mm) with plastic covered steel divider rods and grooved PVC Flooring. The all-steel tube construction makes it sturdy, yet the heavy-duty casters allow for easy movement. Foot actuated step-locks on the frame keep the Rack from rolling when set. The Rack is excellent for storage, or for moving lites between work areas. **NOTE:** Racks are heavy and require a forklift and/or a loading dock for delivery. Ships F.O.B. Cicero, Illinois. Must ship common carrier.

SPECIFICATIONS:

Number of Slots: 60
Slot Width: 7/16" (11.1 mm)
Maximum Glass Size: 60" x 60" (1524 x 1524 mm)
Width: 60-1/2" (1537 mm) (Front of Rack)
Depth: 65" (1651 mm)
Height: 60-3/8" (1533 mm)
Weight: 600 lbs. (272 kg)
Load Capacity: 3600 lbs. (1633 kg)



CAT. NO.	NUMBER OF SLOTS
RR60	60

Minimum order: 1 each. Must ship common carrier.

CRL 55 Unit Insulating Glass Storage Rack

- Holds Units Up to 38" x 72" (965 x 1829 mm)
- 3000 Pound (1360 kg) Load Capacity
- Welded Tubular Steel Construction

This CRL IG Storage Rack will hold up to 55 Insulating Glass units. It is a free rolling Harp Rack mounted on four (two swivel and two fixed) heavy-duty casters with one floor lock. The divider rods are 5/16" (7.9 mm) diameter steel rods covered with PVC tubing. The floor is OBS backer board with four glass contact HDPE strips. The rods can be removed so that the PVC tubing can be easily replaced when worn. The welded steel tube construction makes it sturdy, yet the heavy-duty casters allow for easy movement. A slot numbering system is an available option. The Rack is shipped knocked down and assembly is quick and easy. Racks are heavy and require a forklift and/or a loading dock for delivery. Ships common carrier from the nearest CRL branch location. Minimum order is one each.

SPECIFICATIONS:

Number of Slots: 55

Slot Width: 1-1/16" (27 mm)

Minimum Glass Size: 18" (457 mm) Square

Maximum Glass Size: 38" x 72" (965 x 1829 mm)

Height: 41-1/2" (1054 mm)

Depth: 40" (1016 mm)

Length: 89" (2261 mm)

Weight: 380 lbs. (172 kg)

Load Capacity: 3000 lbs. (1360 kg)



CAT. NO. R55RACK

CRL 100 Piece Window Fabricator's Mobile Harp Rack

- Organizes Glass for Manufacturing Process
- 3000 Pound (1360 kg) Load Capacity
- Numbering System for Sorting

The CRL 100 Piece Window Fabricator's Mobile Harp Rack combines milled ultra-high density PVC Flooring with a welded heavy-duty tubular steel frame and base to provide an exceptionally durable piece of equipment for any window manufacturing environment. The 1/4" (6.4 mm) steel separators are sleeved in PVC tubing, and the 3000 pound (1360 kg) capacity is supported by five heavy-duty casters, two of which feature floor locks.

A slot numbering system is included that can be used with all cutting systems and software packages for easy sorting at break-out. Rack ships mostly assembled, the user need only unfold the Rack and mount the casters. Minimum order is one each, F.O.B. Red Oak, Texas. Must ship common carrier.



CAT. NO. R100RACK

SPECIFICATIONS:

Number of Slots: 100

Slot Width: 7/16" (11 mm)

Maximum Glass Size: 46" x 60" (1168 x 1524 mm)

Height: 46-1/2" (1181 mm)

Depth: 47" (1194 mm)

Width: 100" (2540 mm)

Weight: 600 lbs. (272 kg)

Capacity: 3000 lbs. (1360 kg)

CRL 100 Piece Small Lite Mobile Harp Rack

- Organizes Small Glass Lites for Manufacturing
- Heavy-Duty Casters and Floor Lock

The CRL 100 Piece Small Lite Mobile Harp Rack is ideal for window manufacturing where volumes of smaller lites are needed. Using many of the same construction techniques as our other harp racks, this 'L' frame style incorporates handles on each end of the frame to aid in positioning. The high density polyethylene base is fabricated with 7/16" (11 mm) grooves spaced 7/16" (11 mm) apart. Minimum order is one each. Shipped F.O.B. Red Oak, Texas. Must ship common carrier.

SPECIFICATIONS:

Number of Slots: 100

Slot Width: 7/16" (11 mm)

Maximum Glass Size: 44" x 48" (1118 x 1219 mm)

Height: 38-1/2" (978 mm) Deck to Sleeve Top

Depth: 44" (1118 mm)

Width: 93-5/16" (2370 mm)

Weight: 350 lbs. (158 kg)

Capacity: 2400 lbs. (1088 kg)



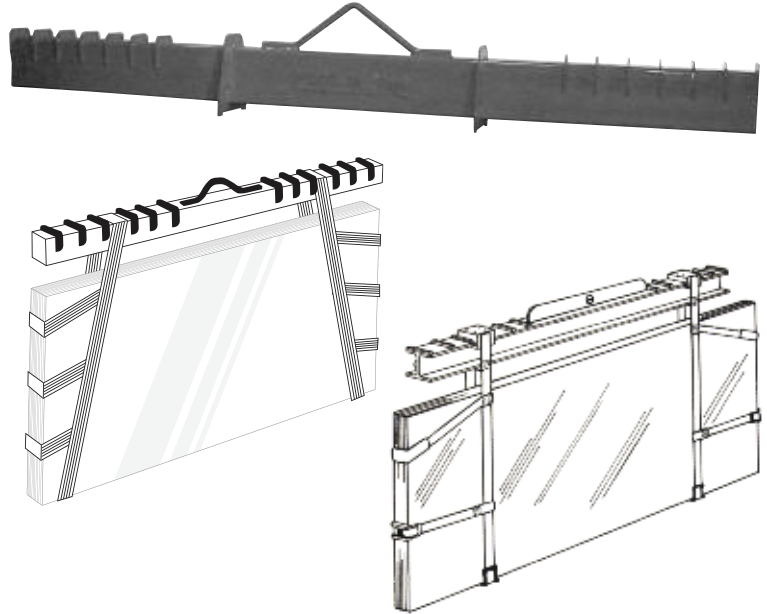
CAT. NO. SL100RACK

CRL Spreader Bars

- Two Sizes With Adjustable Sling Positions
- Glass Slings Sold Separately (See Below)

CRL Steel Spreader Bars are equipped with multiple lift points to allow for differing sizes of glass packs. These lift points are designed to secure the high-density polyester Slings at the proper width. Cat. No. 2403471 measures 4" wide x 8" high x 108" long (102 x 203 x 2743 mm) and Cat. No. 2403469 measures 4" wide x 8" high x 168" long (102 x 203 x 4267 mm). The Spreader Bars and Glass Slings are sold separately; choose a matching 3" Glass Sling from the assortment shown below.

When ordering a Spreader Bar, please be ready to provide the maximum glass size to be lifted and the width of the packs. For assistance contact the CRL Customer Service Department.



CAT. NO.	LIFTING CAPACITY	WEIGHT
2403471	4,000 lbs. (1,814 kg)	145 lbs. (66 kg)
2403469	10,000 lbs. (4,536 kg)	600 lbs. (272 kg)

Minimum order: 1 each. F.O.B. Woodstock, Illinois. Must ship common carrier.

CRL Glass Slings

- Workloads Rated at 9,600 Pounds (4354 kg) Per Pair in Vertical Lift
- 3" (76.2 mm) Wide Polyester Web Construction
- Available in Four Different Sizes

The polyester webbing in these CRL Glass Slings minimizes elongation to three percent or less. The inside of the Slings and Cross-Straps are covered with a reinforced PVC coating to help prevent cutting of the webbing. Hook-and-loop straps prevent the Slings from shifting on the spreader beam when not under load. CRL Glass Slings are sold two per set, and are available in four different sizes.

CAT. NO.	SLING LENGTH	GLASS CAPACITY
2403487	78" (1.98 m)	36" to 54" High (914 to 1371 mm)
2403488	108" (2.74 m)	60" to 84" High (1524 to 2134 mm)
2403489	124" (3.15 m)	72" to 100" High (1829 to 2540 mm)
2403490	160" (4.06 m)	130" to 204" High (3302 to 5182 mm)

Minimum order: 1 set.



CRL Glass Sling Shoe Blocks

- Neoprene Rubber Lined Steel Shoes to Fit Our Glass Slings
- Quick-Release Pins for Easy Mounting

These CRL Glass Sling Shoe Blocks feature covered vertical ledges to prevent glass contact with Slings. Shoe Blocks are held in place with quick-release pins for easy mounting and removal. The pin also holds the shoe in place during use. There are three sizes to choose from. They are sold two Shoe Blocks per set, and are available for CRL Glass Slings only.

CAT. NO.	WIDTH
2403459	4-3/4" (121 mm)
2403460	6-3/4" (171 mm)
2403462	10-1/4" (260 mm)

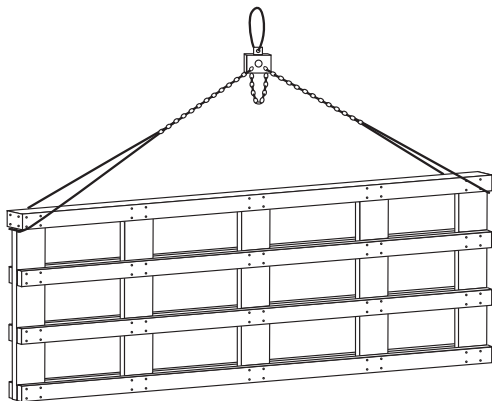
Minimum order: 1 set.



CRL Chain Cable Sling

- Adjusts to All Sizes of Glass Cases
- 4,000 Pound (1814 kg) Capacity

The CRL Chain Cable Sling is an adjustable, braided wire rope and chain combination. The wire rope is lightweight and flexible, but strong. It will cut into the corners of the wooden frame for a positive grip on cases. The Chain is adjustable for large cases up to 12' (3.6 m) long, or small boxes by a patented chain lock head. Minimum order is one each.

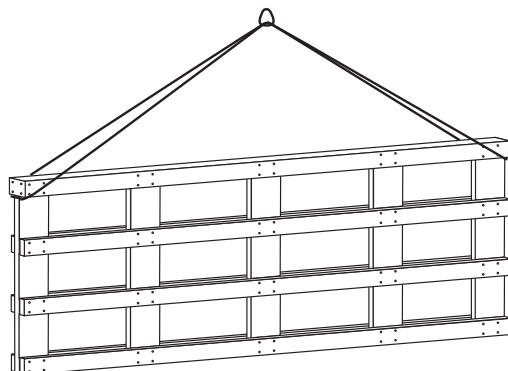


CAT. NO. 599

CRL Double Loop Case Slings

- Wire Rope Slings Hold Wood Cases Securely
- 4000 Pound (1814 kg) Capacity

Slip the 1/2" (12 mm) thick wire rope Double Loop Case Sling around the first or second horizontal crate boards and the lifting process allows the cable to bite into the vertical end boards to prevent slippage. Heavy-duty construction allows lifting of the heaviest cases.



CAT. NO.	GLASS CASE LENGTH	CABLE LENGTH
DLS60	60"-90" (1524-2286 mm)	60" (1524 mm)
DLS90	90"-120" (2286-3048 mm)	72" (1829 mm)
DLS120	120"-150" (3048-3810 mm)	90" (2286 mm)

Minimum order: 1 each.

CRL Multi-Purpose Glass Storage System

- Fixed Post System for Storage of Wood Cases, Glass Packs, and Loose Lites
- Rated Up to 4000 Pounds (1814 kg) Between Posts
- Customize for Your Space Using Individual Components or Choose From Selection of Storage Packages

CRL Multi-Purpose Glass Storage Systems are designed for the upright storage of glass cases, glass (stoce) packs and loose lites. All components are protected with a hot dip galvanized finish.

Posts are available in three stock lengths: 60" (1524 mm), 80" (2032 mm), and 102" (2591 mm). 2" (51 mm) square steel posts are matched to precision cut holes in the base rails spaced 4" (102 mm) apart for maximum adjustability. A heavy steel plate is fabricated with the same hole pattern and is welded inside the rail 1" (25 mm) up from the bottom to provide rigid, plumb alignment of all posts.

Base Rails can be butted together in 60" (1524 mm) increments to form any length system required, and are predrilled with 1/2" (12.7 mm) holes for anchoring to shop floor. Base Rails are kept in alignment when butted together with a unique 1" (25 mm) square slip-joint tube that ensures a straight line is maintained.

Low friction EZ Slide option with Center Rail provides for easy handling and edge protection for loose lites and glass (stoce) packs. Standard Case Storage Packages are intended for wooden case storage only, and do not include Center Rail or EZ Slide materials. EZ Slide Glass Pack Packages can be used for wooden cases, glass packs or loose lites. All products ship F.O.B. Woodstock, Illinois.



STANDARD WOOD CASE STORAGE PACKAGES

CAT. NO.	DESCRIPTION	COMPONENTS	WEIGHT
2005431	4 Case Package	2 Outside Rails, 6 60" Posts, 4 80" Posts	250 lbs./113 kg
2005432	9 Case Package	4 Outside Rails, 10 60" Posts, 10 80" Posts	508 lbs./230 kg
2005433	19 Case Package	8 Outside Rails, 16 60" Posts, 16 80" Posts, 8 102" Posts	1104 lbs./501 kg

No substitutions. Minimum order: one package. Must ship via common carrier.

EZ SLIDE GLASS PACK (STOCE) PACKAGES

CAT. NO.	DESCRIPTION	COMPONENTS	WEIGHT
2005434	4 Stoce Package	2 Outside Rails, 1 Center Rail, 6 60" Posts, 4 80" Posts	324 lbs./147 kg
2005435	9 Stoce Package	4 Outside Rails, 2 Center Rails, 10 60" Posts, 10 80" Posts	596 lbs./270 kg
2005436	19 Stoce Package	8 Outside Rails, 4 Center Rails, 16 60" Posts, 16 80" Posts, 8 102" Posts	1272 lbs./577 kg

No substitutions. Minimum order: one package. Must ship via common carrier.

STANDARD COMPONENTS

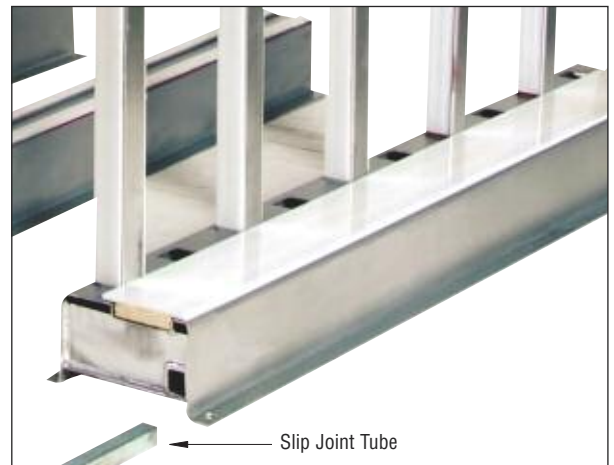
CAT. NO.	DESCRIPTION	WEIGHT
2005423	60" (1524 mm) Long Outside Rail	55 lbs./25 kg
2005425	60" (1524 mm) Post	15 lbs./7 kg
2005427	80" (2032 mm) Post	19 lbs./9 kg
2005429	102" (2591 mm) Post	28 lbs./13 kg

Minimum order: 1 each.

EZ SLIDE COMPONENTS

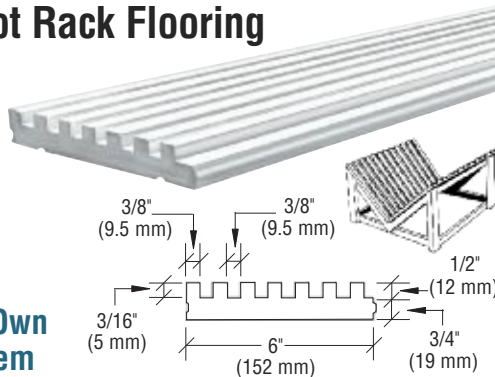
CAT. NO.	DESCRIPTION	WEIGHT
2005424	60" (1524 mm) Long Outside Rail	60 lbs./27 kg
2005545	60" (1524 mm) Long Center Rail	30 lbs./14 kg
2005426	60" (1524 mm) Post	16 lbs./7 kg
2005428	80" (2032 mm) Post	20 lbs./9 kg
2005430	102" (2591 mm) Post	28 lbs./13 kg

Minimum order: 1 each.



CRL PVC Slot Rack Flooring

- Made From High Density PVC
- Milled With 3/8" Grooves
- Create Your Own Storage System

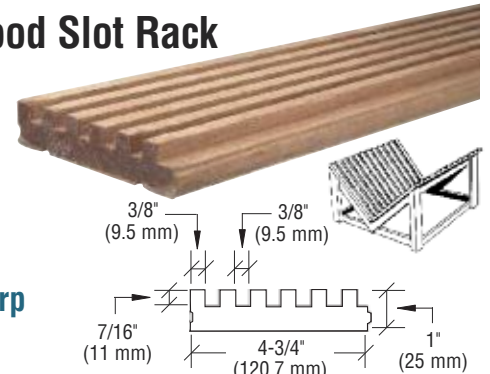


CRL High Density PVC Slot Rack Flooring is precision milled with 3/8" (9.5 mm) wide by 3/16" (5 mm) deep grooves to provide quality replacement rack flooring or to provide a base for racking of your own design. This 1/2" (12.7 mm) PVC material, bonded onto 3/4" (19 mm) OSB board, provides the ultimate in low friction slide storage systems. Minimum order is one 96" (2.44 m) length. Must ship common carrier.

CAT. NO. SFPVC

CRL Hardwood Slot Rack Flooring

- Made of the Finest Grade Hardwood
- Use to Make Your Own Harp or V-Rack

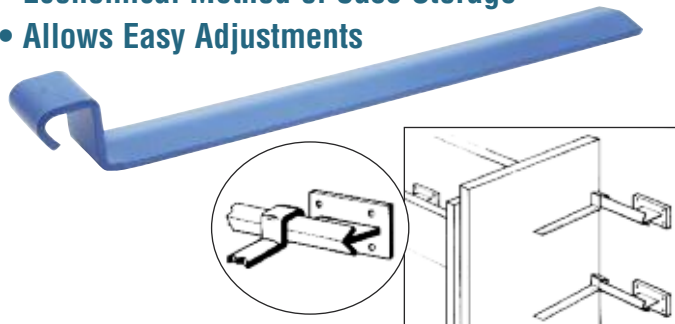


The finest grade of clear grain hardwood is accurately milled and used for this flooring as it provides long wear and easy glass handling. You can make your own harp rack with Slot Rack Flooring or use it to make a "V" shaped rack for cut off pieces. Simply lay lengths on the floor – they are grooved to join together snugly without nails or other fasteners. Minimum order is one 12' (3.66 m) length. Must ship common carrier. **NOTE:** Not Available in Australia.

CAT. NO. 25012

CRL Glass Case Bracket

- Economical Method of Case Storage
- Allows Easy Adjustments



CRL Glass Case Brackets are an economical and simple way to keep cases of glass organized. Just mount a stand-off 1-1/2" x 1-1/2" (38 x 38 mm) angle-iron on a blank wall and hang the Case Bracket wherever you need them to hold cases upright. They are made of steel, and are 18" (457 mm) long. We suggest cases be supported near the top and bottom. Minimum order is one each.

CAT. NO. 662CB

CRL Glass Tongs

- For Working With Heavy Glass in Slot Racks
- Made From High Quality Steel



CRL Glass Tongs have rubber lined jaws so they do not scratch or mar your glass while in use. The extra-long handles give you a firm grip on the glass, and provide an extra safety margin in the event of sheet breakage. One end of the Tongs is hooked to give you a better grip when pulling sheets of glass out of your rack. Their overall length is 18" (457 mm), and they are made from drop-forged steel. Minimum order is one each.

CAT. NO. 404

CRL Shipping Pads and Glass Protectors

- Foam, Cork, Felt, Plastic, or Vinyl
- Adhesive or Static Cling
- 1/16" to 1/2" (1.6 to 12.7 mm) Thickness
- 1/2" to 2" (12.7 to 51 mm) Square
- Convenient Small Rolls or Efficient Bulk Packs

CRL provides a total selection of glass protection methods for every transport and storage situation, from shower doors to mirrors, windows to patio doors, or heavy tables to insulating units. Adhesive back or static cling choices and other packaging options cater to your production demands.

CRL vinyl or plastic corner protectors slip onto your fabricated glass corners to combine with shipping pad separators to provide the ultimate in product protection for you and your customers. See pages 242K-247K for the complete selection.



CRL GLASS HANDLING EQUIPMENT

For Pricing Visit crlaurence.com or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

CRL Roller Blocks

- Rotate and Support Heavy Sheet or Insulated Glass With Ease
- Turn Over to Use as a Set of Resting Blocks
- Rubber Base Ensures Traction

CRL Roller Blocks are made from extremely strong, high-density polyethylene so they won't chip or scratch the glass. They are especially useful for tipping large, heavy sheets of glass 90 degrees vertically. Rubber pads placed inside and outside prevent slippage and provide traction for tipping. Maximum weight per Block is 400 lbs. (181 kg). Minimum order is one pair.



CAT. NO. RB200

CRL Glass Grippers



GG1 Single Grip



GG2 Double Grip

With the CRL Glass Grippers two people can easily lift and position large sheets of glass each using only one hand, leaving the other hand free to guide and position the glass into place. The steel frame has serrated vulcanized rubber pads, which tightly hold the glass without slipping, or damaging the glass surface.

CAT. NO.	DESCRIPTION	CAPACITY	QTY/PKG
GG1	Single Grip	220 lbs. (100 kg)	2/Pack
GG2	Double Grip	440 lbs. (200 kg)	1/Pack

Minimum order: 1 pair of GG1, and 1 each of GG2.

CRL Glass Lifting Sling and Hand Pad



CAT. NO. LGS50
Glass Lifting Sling



CAT. NO. HG245
Hand Pad

The CRL Glass Lifting Sling is made from high-strength nylon webbing and has a thick rubber bottom pad. Each side of the sling has a 10-1/2" (267 mm) aluminum handle with rubber grips.

The CRL Hand Pad is a molded, textured rubber pad measuring 4-7/8" x 6-3/4" (124 x 172 mm). This flexible pad is molded with a 1" (25 mm) thumb hole for extra gripping dexterity. Minimum order is one each.

CRL Plate Glass Lifter

- For Lifting and Setting Glass

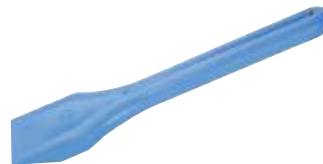


The popular CRL Plate Glass Lifter is used to lift or position large plates of glass for inserting setting blocks or shims. These work like a reverse pair of pliers to ease in lifting while reducing strain on your back. There is also a rubber pad that protects the glass from the metal pliers. Minimum order is one each.

CAT. NO. 104

CRL Plate Glass Lifting Tool

- For Lifting and Setting Glass



The CRL Plate Glass Lifting Tool is used to lift or position large plates of glass for inserting setting blocks or shims. Its uniquely shaped 2-3/4" (70 mm) tip is narrow enough to fit under the glass. Lightweight yet extremely durable, it is made of tough glass filled resin. Overall length is 10-3/4" (273 mm). Minimum order is one each.

CAT. NO. PGL11



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CRL Glass Jack

- Use With Vacuum Lifters
- A Simple and Affordable Tool That Makes Adjusting Large Glass Panels Easy
- Great for Smaller Glass Shops

The CRL Glass Jack makes adjusting (or lifting) large glass and mirror panels a simple, one-person job. Used in conjunction with your vacuum lifter (not included), this precision machined tool lets you adjust and set your glass, while getting a better view of what you are doing without any interference. At the same time, you reduce your risk of back injury.

The CRL Glass Jack is set on a solid surface while you position it's cradle under your vacuum lifter. Then by simply attaching your vacuum lifter to the glass and turning the center adjustment bar by hand, the glass will raise or lower accordingly. The turnbuckle mechanism lets you move glass panels in the smallest of increments, without sudden movements.

Made from the highest quality aluminum, the CRL Glass Jack is built for years of service. **NOTE:** Never exceed the recommended weight limit of your vacuum lifter. Minimum order is one each.



Vacuum Lifter Sold Separately
See Page 212K.

CAT. NO. J1

CRL Carrymate® Door Lifter

- For the Installation of Doors Including Fire Doors, Windows, Furniture, Dry Walls, Partitions, Etc.
- Easy Foot Operation; Lifts, Swivels, and Lowers
- For Doors Weighing Up To 264 Pounds (120 kg)



CRL Carrymate® Door Lifter is a panel and board swivel lifter which makes installation of doors a breeze. Includes an integrated tilt compensating lever to prevent the door from falling towards you. Lifts, swivels, and lowers up to 264 lbs. (120 kg). Also ideal for partitions and to align furniture. A rubber pad is included so no glass-to-metal contact is made when working with glass panels. A must-have tool for joiners, glaziers, painters, and locksmith's. Minimum order is one each.

CAT. NO. 0553

CRL Door Jack

- A Combination Jack, Dolly, and Vise That Eases Transport and Installation of Doors

The CRL Door Jack is an "extra hand" that makes removing, moving, installing, or repairing doors a one person operation. Door Jack clamps to the strike side of most standard commercial and residential doors. Adjustable height casters make aligning the door and frame easy. For transport, just tilt the door back on the Door Jack's dolly wheels and move out. A support caster allows easy movement without lifting the door back to an upright position. Another accessory support holds the door in an upright position for hinge work. Door Jack handles doors and other materials in thickness from 1/2" to 2" (12 to 51 mm), and weighing up to 300 lbs. (136 kg). Minimum order is one each.

Carrymate is a registered trademark of Dr. Gold & Co. KG



CAT. NO. DJ1

CRL GLASS PROTECTORS AND SHIPPING PADS

For Pricing Visit crlaurence.com or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

CRL Sponge Rubber Shipping Pads

- Economical and Easy to Use
- Leave No Residue When Removed
- For Storing and Transporting Glass
- Now in 1/8" (3.2 mm) and 1/4" (6.3 mm) Thickness

Developed for the tempering industry for use on hot glass during processing, and made of heavy-duty composition rubber, these CRL Shipping Pads have a special adhesive that leaves no residue when removed from the glass. They are excellent to use when transporting or storing glass to prevent surface scratches and breakage. Application is simple - just peel from the release paper roll and stick them to the glass. No special equipment, tools or solvents are needed to remove them. Pre-cut pads are available in two ways: on rolls of 1,000; in bulk quantities of 5,000 each of the 3/4" (19 mm) size, and 10,000 each of the 1/2" (12.7 mm) size.



CAT. NO.	PAD SIZE	THICKNESS	PADS/ROLL
SP1412	1/2" (12.7 mm) Square	1/4" (6.3 mm)	1,000
SP1412B	1/2" (12.7 mm) Square	1/4" (6.3 mm)	10,000
SP1834	3/4" (19 mm) Square	1/8" (3.2 mm)	1,000
SP1834B	3/4" (19 mm) Square	1/8" (3.2 mm)	25,000
SP1434	3/4" (19 mm) Square	1/4" (6.3 mm)	1,000
SP1434B	3/4" (19 mm) Square	1/4" (6.3 mm)	5,000

Minimum order: 1 roll. Sizes can be combined for quantity pricing.



CRL Super-Duty Shipping Pads

- Used by Aluminum Window and Door Fabricators
- Handles Heavy Loads and Shock
- Easy-to-See Light Yellow Color

These CRL Super-Duty Shipping Pads are used by aluminum window and door fabricators to support and separate finished units during transport and storage. The highly condensed white troc ellen foam compresses slightly under load, and has great capacity to handle shock and heavy loads. The adhesive coating sticks tight in all climates, yet leaves no residue or discoloration on metal surfaces when removed, even after months of storage. CRL Super-Duty Shipping Pads are die-cut on sheets of release paper, and peel off easily for application, even in high-production situations. Standard thicknesses are 1/4" and 1/2" (6.3 and 12.7 mm), and all sizes are packed in boxes that will ship U.P.S.



CAT. NO.	PAD SIZE	THICKNESS	PADS/ROLL
NSP1411	1" x 1" (25.4 x 25.4 mm)	1/4" (6.3 mm)	12,096
NSP141515	1-1/2" x 1-1/2" (38.1 x 38.1 mm)	1/4" (6.3 mm)	5,376
NSP14152	1-1/2" x 2" (38.1 x 50.8 mm)	1/4" (6.3 mm)	4,032
NSP1422	2" x 2" (50.8 x 50.8 mm)	1/4" (6.3 mm)	3,024
NSP1211	1" x 1" (25.4 x 25.4 mm)	1/2" (12.7 mm)	6,048
NSP121515	1-1/2" x 1-1/2" (38.1 x 38.1 mm)	1/2" (12.7 mm)	2,668

Minimum order: 1 box. Sizes can be combined for quantity pricing.



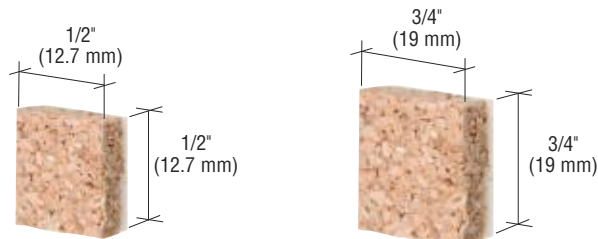
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CRL Cork No-Adhesive Shipping Pads

- Extra Firm for Minimal Compression Under Heavy Loads
- Peel Off Without Leaving Residue



These CRL Cork No-Adhesive Shipping Pads are laminated with cork instead of sponge, therefore they are firmer and will not compress like sponge. This makes them excellent for use with heavy or large stacks of glass. Adhesive cleanup is eliminated since CRL Cork No-Adhesive Shipping Pads peel off without leaving any residue. They are even reusable if kept clean! Available in two ways: on rolls of 1,000 pre-cut pads, or on bulk rolls for volume users.

CAT. NO.	PAD SIZE	THICKNESS	PADS/ROLL
CNA12	1/2" (12.7 mm) Square	1/4" (6.3 mm)	1,000
CNA12B	1/2" (12.7 mm) Square	1/4" (6.3 mm)	10,000
CNA34	3/4" (19 mm) Square	1/4" (6.3 mm)	1,000
CNA34B	3/4" (19 mm) Square	1/4" (6.3 mm)	5,000

Minimum order: 1 roll. Sizes can be combined for quantity pricing.

Bulk Roll

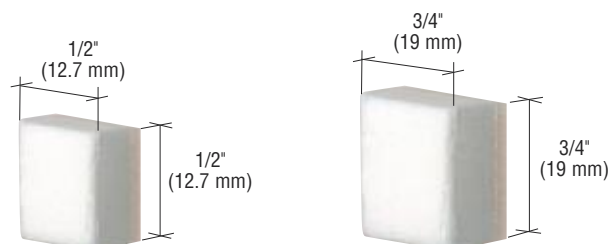


1,000 Pad Roll



CRL Foam No-Adhesive Shipping Pads

- Adhesion by Static Electricity
- No Adhesive to Clean Up



CRL Foam No-Adhesive Shipping Pads attach themselves to glass by static electricity. This eliminates many problems caused by the adhesives on normal shipping pads, such as adhesive residue cleanup, adhesive staining, and the limited shelf life of some adhesives. They are even reusable if kept clean! Foam Pads come 1,000 per roll. Economical bulk rolls for volume users contain either 5,000 pads in the 3/4" (19 mm) square size, or 10,000 pads in the 1/2" (12.7 mm) size on release paper rolls.

CAT. NO.	PAD SIZE	THICKNESS	PADS/ROLL
NAP12	1/2" (12.7 mm) Square	1/4" (6.3 mm)	1,000
NAP12B	1/2" (12.7 mm) Square	1/4" (6.3 mm)	10,000
NAP34	3/4" (19 mm) Square	1/4" (6.3 mm)	1,000
NAP34B	3/4" (19 mm) Square	1/4" (6.3 mm)	5,000

Minimum order: 1 roll. Sizes can be combined for quantity pricing.

Bulk Roll



1,000 Pad Roll



CRL GLASS PROTECTORS AND SHIPPING PADS

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CRL Felt Glass Protectors

- Easy to Apply
- Helps Prevent Breakage
- Protects Glass From Scratches

Used to separate glass during shipping or storage, these high density CRL Felt Glass Protectors have an adhesive backing that holds them to the glass. This prevents scratches or breakage that sometimes occurs when two glass surfaces come in contact with each other. They are easy to apply and remove.

CRL Felt Glass Protectors can also be used on the base of objects such as vases, statuettes or ashtrays to keep them from scratching glass table tops. Green in color, they come on rolls of release paper for easy application. They are also available in other colors such as, black, white, brown, gray, blue, red, or yellow in quantities of 100,000 or more.

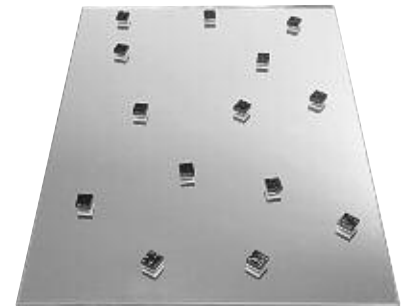


CAT. NO.	DIAMETER	THICKNESS	PADS/ROLL
FGP126	1/2" (12.7 mm)	1/16" (1.6 mm)	1,000
FGP128	1/2" (12.7 mm)	1/8" (3.2 mm)	1,000
FGP346	3/4" (19 mm)	1/16" (1.6 mm)	1,000
FGP348	3/4" (19 mm)	1/8" (3.2 mm)	1,000

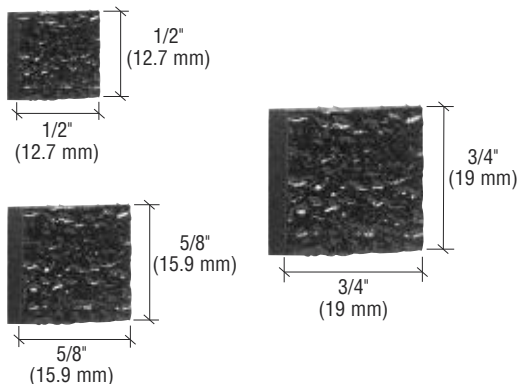
Minimum order: 1 roll. Sizes can be combined for quantity pricing.

CRL Pebbled No-Adhesive Shipping Pads

- Heavy Density 25 Pound Pebbled PVC on a Cling Foam Backing
- No Sticky Residue Left After Removal Means No Clean Up



CRL Pebbled No-Adhesive Shipping Pads are a heavy density, 25 pound pebbled PVC laminated to a special cling foam. Since there's no adhesive, there's no residue, making clean up unnecessary. They are non-marking on glass, and can be reused in extremely clean conditions.



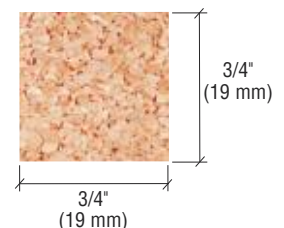
CAT. NO.	PAD SIZE	THICKNESS	PADS/ROLL
PNA12B	1/2" (12.7 mm) Square	1/4" (6.3 mm)	10,000
PNA58B	5/8" (15.9 mm) Square	1/4" (6.3 mm)	5,000
PNA34B	3/4" (19 mm) Square	1/4" (6.3 mm)	5,000

Minimum order: 1 roll. Sizes can be combined for quantity pricing.

CRL Cork Tabs on a Roll

- Cork Pads With a Low Tack Adhesive
- Ideal for Mirror or Tempering Lines

These CRL Cork Tabs on a Roll are great for fabricators, distributors, glass shops or for any of your production needs. With thorough testing and industry feedback, we have found that these low-tack adhesive pads are a popular and reliable size. There are 3,000 pads per roll. Other sizes and types are available on special order.



CAT. NO.	PAD SIZE	THICKNESS	PADS/ROLL
CSP34X132	3/4" (19 mm) Square	1/32" (0.8 mm)	3,000

Minimum order: 1 roll.



C.R. LAURENCE COMPANY

crlaurence.com | usalum.com

244K | crlaurence.ca crlaurence.com.au crlaurence.co.uk crlaurence.de crlaurence.eu

CRL Felt Glass Protectors

- Easy to Use and Remove
- Available in Brown and Green



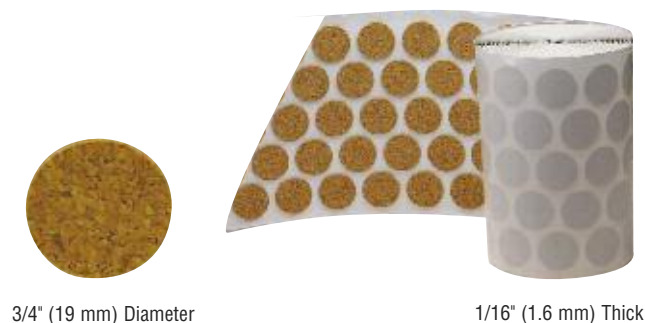
CRL Felt Glass Protectors have an adhesive on one side that adheres to any clean, dry surface. Buttons are 3/4" diameter x 1/16" (19 x 1.6 mm) thick, and available in green or brown color felt. Sold 1,000 buttons per roll on release paper.

CAT. NO.	COLOR	SIZE	QTY/ROLL
FA5BRW	Brown	3/4" (19 mm) Diameter	1,000
FA5GRN	Green	3/4" (19 mm) Diameter	1,000

Minimum order: 1 roll. All Glass Protectors can be combined for quantity pricing.

CRL Cork Glass Protectors

- Easy to Use and Remove
- Made of 100% Cork



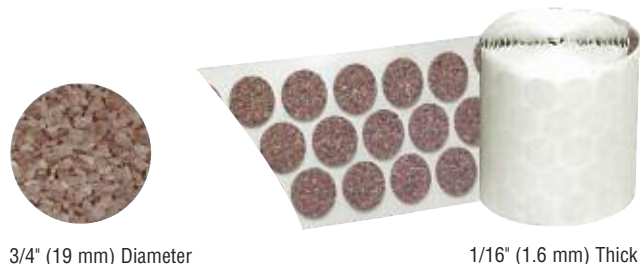
CRL Cork Glass Protectors have adhesive on one side and are 3/4" diameter x 1/16" (19 x 1.6 mm) thick. They keep the glass from slipping or scratching the surface, and help protect the surface of the desk or table top. Sold 1,000 buttons per roll on release paper.

CAT. NO.	COLOR	SIZE	QTY/ROLL
CB2	Tan	3/4" (19 mm) Diameter	1,000

Minimum order: 1 roll. All Glass Protectors can be combined for quantity pricing.

CRL Cork and Neoprene Composition Glass Protectors

- Easy to Use and Remove
- Slightly Softer Than Cork
- Excellent as a Glass Separator



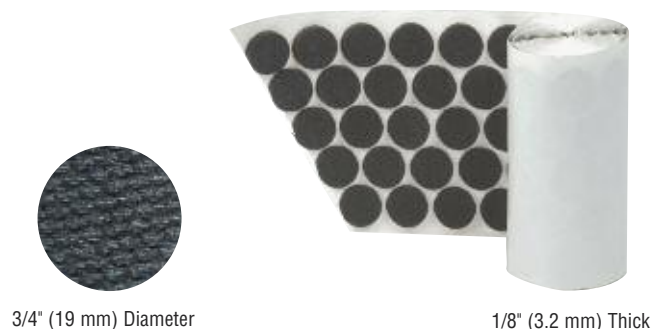
CRL Cork and Neoprene Composition Glass Protectors have adhesive on one side and are 3/4" diameter x 1/16" (19 x 1.6 mm) thick. They cushion glass on furniture tops, and are slightly more resilient than all-cork buttons. Sold 1,000 buttons per roll on release paper.

CAT. NO.	COLOR	SIZE	QTY/ROLL
CN1B	Tan/Black	3/4" (19 mm) Diameter	1,000

Minimum order: 1 roll. All Glass Protectors can be combined for quantity pricing.

CRL Sponge Rubber Glass Protectors

- Easy to Use and Remove
- Cushion Glass in Stacks
- Protects Against Scratches and Abrasions



CRL Sponge Rubber Glass Protectors have adhesive on one side of the black color sponge. They measure 3/4" diameter x 1/8" (19 x 3.2 mm) thick. Sold 1,000 buttons per roll on release paper.

CAT. NO.	COLOR	SIZE	QTY/ROLL
SR3	Black	3/4" (19 mm) Diameter	1,000

Minimum order: 1 roll. All Glass Protectors can be combined for quantity pricing.

CRL Blue Transport Pads

- Medium Density
- Low Tack
- Available in Europe Only



These medium density PVC foam Transport Pads feature a low-tack, pressure sensitive, peelable adhesive that allows clean removal from glass, metal, and PVC-u surfaces leaving no adhesive residue or ghosting marks. They are designed for separating and protecting sheets of flat glass, sealed units, and automotive glass in transit or storage.

CAT. NO.	COLOR	DENSITY	SIZE	QTY/ROLL
1407LOG10	Blue	Medium	24 x 19 x 4 mm	10,000
1407LOG20	Blue	Medium	23 x 18 x 4 mm	20,000
1407E	Blue	Medium	23 x 18 x 4 mm	1,000

Minimum order: 1 roll.

CRL Green Transport Pads

- Highest Density
- Adhesive-Free
- Available in Europe Only



These high and extra-high density PVC foam Transport Pads are used for protecting and transporting thicker, heavier, and/or coated glass. Available in low tack (Cat. No. 1407G4MM) and adhesive-free, these pads feature the highest density PVC in our range.

CAT. NO.	COLOR	DENSITY	SIZE	QTY/ROLL
1407G4MM	Green	High	25 x 19 x 4 mm	20,000
1416S	Green	Extra High	19 x 19 x 4 mm	16,000
1416R	Green	Extra High	23 x 18 x 4 mm	16,000

Minimum order: 1 roll.

CRL Red Transport Pads

- High Density
- Low Tack
- Available in Europe Only



These high-density PVC foam Transport Pads are used for protecting and transporting thicker, heavier, and/or coated glass. The adhesive is U.V. and temperature resistant, and will offer consistent bonding strengths and clean peel, even after prolonged periods in contact with the surface.

CAT. NO.	COLOR	DENSITY	SIZE	QTY/ROLL
1407R4MM	Red	High	25 x 19 x 4 mm	10,000
1407R4MM50S	Red	High	50 x 50 x 4 mm	500
1407R2MM	Red	High	25 x 19 x 2 mm	10,000

Minimum order: 1 roll.

CRL Cork Transport Pads

- Very Popular in Mainland Europe
- Cost Effective Option to PVC
- Available in Europe Only



CAT. NO. 1407B

CAT. NO. 1407BA1

CAT. NO. 1407W25

Cork Transport Pads provide a cost effective option to higher priced PVC foam pads. They are specially developed with a thin foam underside using the same single sided adhesive coating technology as the PVC foam pads. They offer excellent high-compression resistance.

CAT. NO.	COLOR	DENSITY	SIZE	QTY/PACK
1407B	Cork/Black	Medium	19 x 19 x 4.5 mm	1,000
1407BA1	Cork/PVC	Medium	24 x 24 x 9.5 mm	4,000
1407W25	Cork/White	Medium	19 x 19 x 2.5 mm	1,000

Minimum order: 1 pack.

CRL GLASS CORNER PROTECTORS

For Pricing Visit crlaurence.com or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

CRL Corner Protectors

- Protect Corners of Glass and Mirror
- Six Different Sizes for 1/8", 1/4", 5/16", 3/8", 1/2", and 3/4" (3, 6, 8, 10, 12, and 19 mm) Thicknesses

These CRL Corner Protectors are designed to protect glass and mirror edges during shipping, handling or storing. Black plastic Corner Protectors will not scratch or damage glass or mirror surfaces, and they help protect large cut-offs from breakage or becoming scrap. Protectors are re-usable, they simply slide on and off the corners of glass and mirror. Ensure your customers are getting a quality piece of glass; protect the corners with CRL Corner Protectors. Available in economical bulk packs or handy boxes of 100 each.



CAT. NO.	GLASS THICKNESS
1563004	1/8" (D.S.) - 3/16" (5 mm)
1563006	1/4" (6 mm)
1563008	5/16" (8 mm)
1563010	3/8" (10 mm)
1563012	1/2" (12 mm)
1563020	3/4" (19 mm)

Minimum order: 100 each. Must be ordered in increments of 100. Sizes can be combined for quantity pricing.

CRL Armored Corner Protectors

- Economical, Reusable Corners Absorb Impact When Glass is Bumped or Dropped
- A Small Investment Can Save Expensive Glass and Help Prevent Costly Accidents



CAT. NO. ACP14
1/4" (6 mm)



CAT. NO. ACP38
3/8" (10 mm)



CAT. NO. ACP12
1/2" (12 mm)



CAT. NO. ACP58
5/8" (15 mm)

Glass fabricators, shower door installers, glazing contractors, and anyone handling glass panels can worry less about glass breakage using our new Armored Corner Protectors. These uniquely designed corners can absorb impacts during transport. The Corner's heel offers the maximum impact protection while the interior surfaces channel away impact energy from the surface of the glass. Cut-outs formed on the Corner's edge allow belt fastening.

CRL Armored Corners can be used for all types of flat and beveled glass. Packed in bags of 12 or bulk boxes of 100 each, they are color-coded by size for easy selection. See our online video at crlaurence.com for a demonstration of how effective these corners are against the worst type of dropped glass impacts.

new

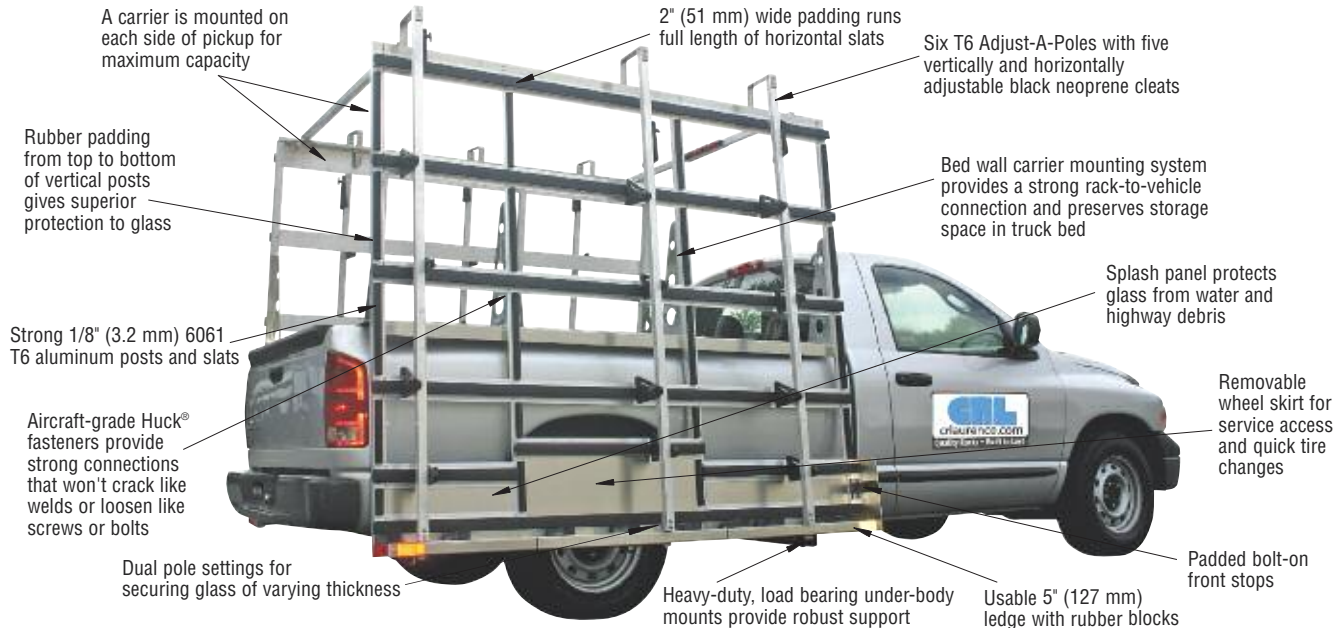


CAT. NO.	GLASS THICKNESS
ACP14	1/4" (6 mm)
ACP38	3/8" (10 mm)
ACP12	1/2" (12 mm)
ACP58	5/8" (15 mm)

Minimum order: 12 each. All Armored Corner Protectors can be combined for quantity pricing.

CRL Aluminum Glass Racks for Pickup Trucks

- Double-Sided Racks for All Full Size Pickup Trucks
- Free Installation at Manufacturer's Plant, or Fully Assembled in Solid Wood Crates for Guaranteed Safe Shipping Anywhere, Including Overseas
- Available With or Without Removable Wheel Skirts



Three models to choose from, all two-sided (driver and passenger) 8' (2.4 m) long by 7' (2.1 m) high with or without Removable Wheel Skirt and either installed at no extra charge in Glassboro, New Jersey, or shipped crated and fully assembled (just bolt to your truck, best choice for domestic), or Knocked Down (KD for customer assembly for shipments outside the 48 contiguous states). Crates are solid wood boxes for guaranteed safe shipping anywhere, F.O.B. Glassboro, New Jersey. The Removable Wheel Skirt allows easy service access to wheels and also lowers the rack height for easier loading and unloading of glass. The Rack comes with a 5" (127 mm) wide usable ledge with 2" (51 mm) wide rubber ledge blocks and double pole settings for top and bottom; one row of splash panel; computer designed load bearing with fully adjustable Under-Body Mounts; horizontal and full length vertical rubber; and six Adjust-A-Poles with five sliding triangular black neoprene cleats. Optional equipment includes: Sign Panel (customer applies own logo, phone number, etc., does not come with lettering), or lettering can be done at factory for an additional charge; extra T6 Adjust-A-Pole 7' (2.1 m) long with five sliding cleats. Racks are designed for all full size pickup trucks with 8' (2.4 m) beds. Please specify make, model, and year when ordering.

Optional Equipment



Sign Panel for Pickups
CAT. NO. GR113P



T6 Adjust-A-Pole
CAT. NO. GR102



Removable Wheel Skirt Included With

CAT. NO. GRAL2000WS

8' LONG X 7' HIGH (2.4 X 2.1 M) PICKUP TRUCK RACKS

CAT. NO.	DESCRIPTION
GRAL2000WS	Aluminum Pickup Truck Rack With Wheel Skirt
GRAL2000	Aluminum Pickup Truck Rack Without Wheel Skirt
GRAL2000KD	Aluminum Pickup Truck Rack Knocked Down Without Wheel Skirt

Minimum order: 1 each. F.O.B. Manufacturer.

Huck is a registered trademark of Huck International.

CRL Aluminum Glass Racks for Vans

- For All Full Size and Sprinter-Type Vans
- Free Installation at Manufacturer's Plant, or Fully Assembled in Solid Wood Crates for Guaranteed Safe Shipping Anywhere, Including Overseas
- Available With or Without Removable Wheel Skirts



Three models to choose from, all one side (driver) 10' (3.05 m) long by 7' (2.1 m) high with or without Removable Wheel Skirt and either installed at no extra charge in Glassboro, New Jersey, or shipped crated and fully assembled (just bolt to your van, best choice for domestic), or Knocked Down (KD for customer assembly for shipments outside the 48 contiguous states). Crates are solid wood boxes for guaranteed safe shipping anywhere, F.O.B. Glassboro, New Jersey. Removable Wheel Skirt allows easy service access to wheels and also lowers the rack height for easier loading and unloading of glass. The Rack comes with a 5" (127 mm) wide usable ledge with 2" (51 mm) wide rubber ledge blocks and double pole settings for top and bottom; one row of splash panel; computer designed load bearing with fully adjustable Under-Body Mounts; horizontal and full length vertical rubber; and three T6 Adjust-A-Poles with five sliding triangular black neoprene cleats. Optional equipment includes: Sign panel (customer applies own logo, phone number etc., does not come with lettering), or lettering can be done at factory for an additional charge; extra T6 Adjust-A-Pole 7' (2.1 m) long with five sliding cleats; 3-Piece Roof Rack mounts to rack (no drilling in side of van required). For all full size and Sprinter type Vans. Please specify make, model, and year when ordering.

Optional Equipment



Demountable Van Rack (Call for Details)



CAT. NO. GR113V Sign Panel for Vans



CAT. NO. GR102 T6 Adjust-A-Pole



Removable Wheel Skirt Included With
CAT. NO. GRAL1000WS



Optional 3-Piece Roof Rack
CAT. NO. GVR112

10' LONG X 7' HIGH (3.05 X 2.1 M) VAN RACKS

CAT. NO.	DESCRIPTION
GRAL1000WS	Aluminum Van Rack With Wheel Skirt
GRAL1000	Aluminum Van Rack Without Wheel Skirt
GRAL1000KD	Aluminum Van Rack Knocked Down Without Wheel Skirt

Minimum order: 1 each. F.O.B. Manufacturer.

Huck is a registered trademark of Huck International Inc.

CRL Glass Racks for Pickup Trucks

- Right and Left Side Racks Included
- Racks Available in 72" (1829 mm), 86" (2184), and 96" (2438 mm) Heights
- Six Outside Stakes With Barkleats™ and Hardware
- 1-1/2" (38 mm) Square Tube Uprights and Stakes
- Double Row of Stake Slots
- Barpad® Glass Cushions on 8" (203 mm) Centers
- Neoprene Baseplate on 12" (305 mm) Centers With 5" (127 mm) Usable Ledgeboard
- Front Load Stops
- Full Bottom Panel to Protect Glass From Debris
- Includes All Necessary Lights and Reflectors
- Front Corner Braces and Rear Stabilizer Assemblies
- Solid Upper Sign Panels Standard on Steel and Stainless Steel Racks



Available in Three Materials

* STEEL CONSTRUCTION

Rated **GOOD** - Uses high-tensile steel; primed, finished, and painted white

** ALUMINUM CONSTRUCTION

Rated **BETTER** - Lighter than steel with polished finish.

*** STAINLESS STEEL CONSTRUCTION

Rated **BEST** - lighter and stronger than steel, three times stronger than aluminum with minimum maintenance, brushed finish.

Available Options:

- Cantilevered or Goal Post Metal Carriers
- 30" (762 mm) Vertical Rack Extension

CAT. NO.	LENGTH x HEIGHT	CONSTRUCTION	MFG.#
BR706M	72" x 72" (1829 x 1829 mm)	Steel	706-MINI [△]
BR706MA	72" x 72" (1829 x 1829 mm)	Aluminum	706-A MINI [△]
BR706	72" x 86" (1829 x 2184 mm)	Steel	706
BR707M	84" x 72" (2134 x 1829 mm)	Steel	707-MINI [△]
BR707MA	84" x 72" (2134 x 1829 mm)	Aluminum	707-A MINI [△]
BR707	84" x 86" (2134 x 2184 mm)	Steel	707
BR708	96" x 86" (2438 x 2184 mm)	Steel	708
BR708A	96" x 86" (2438 x 2184 mm)	Aluminum	708-A
BR708S	96" x 86" (2438 x 2184 mm)	Stainless Steel	708-S
BR709	108" x 86" (2743 x 2184 mm)	Steel	709
BR709A	108" x 86" (2743 x 2184 mm)	Aluminum	709-A
BR709S	108" x 86" (2743 x 2184 mm)	Stainless Steel	709-S
BR709EH	108" x 96" (2743 x 2438 mm)	Steel	709-EH
BR709EHA	108" x 96" (2743 x 2438 mm)	Aluminum	709-EH-A
BR709EHS	108" x 96" (2743 x 2438 mm)	Stainless Steel	709-EH-S
BR710	120" x 86" (3048 x 2184 mm)	Steel	710
BR710S	120" x 86" (3048 x 2184 mm)	Stainless Steel	710-S
BR710EH	120" x 96" (3048 x 2438 mm)	Steel	710-EH

Minimum order: 1 each. F.O.B. Milwaukee, Wisconsin. Must ship common carrier. [△] Mini designates racks for compact pickups.

Barpad is a registered trademark of F. Barkow, Inc.



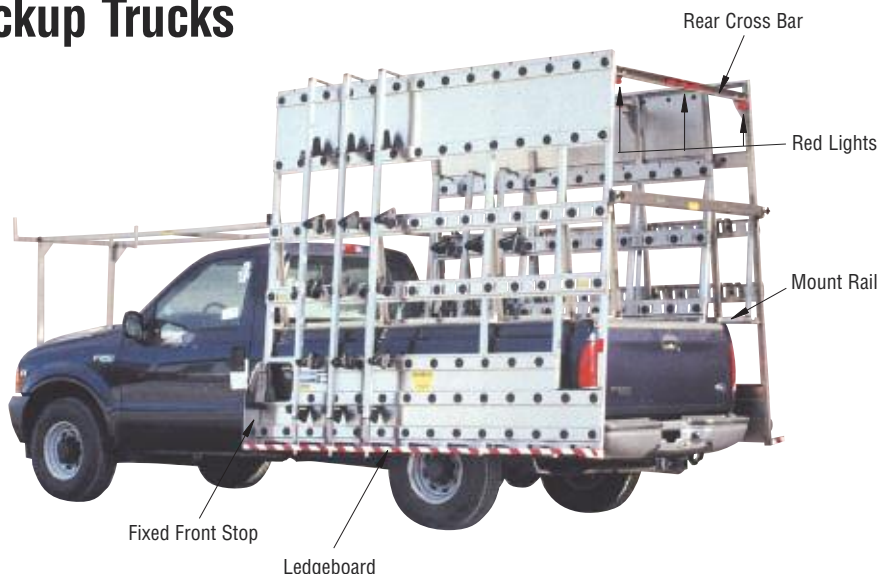
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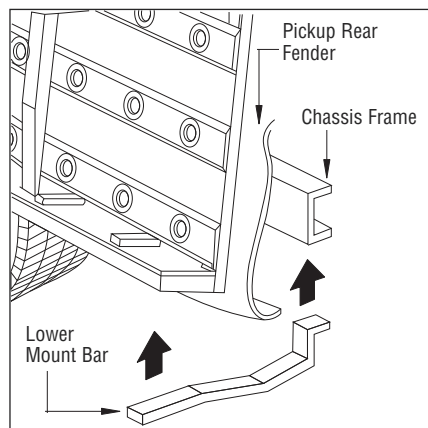
CRL Glass Racks for Pickup Trucks

- Complete With Barkleats™, Stakes, Barpads®, and Base Pads
- Made to be Field Installed With a Minimum Amount of Labor
- Step-by-Step Instructions Included

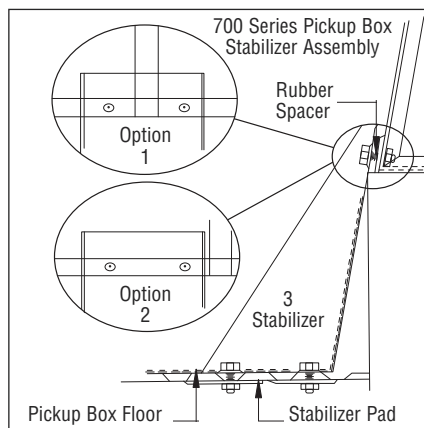


CRL Glass Racks for Pickup Trucks are available in painted steel, polished aluminum, or brushed stainless steel finish. Most Racks are also available in several height and width options. Among the many options are: 30" (762 mm) Gear and Rack Extensions that make it possible to haul larger lites of glass, Cantilever or Goal Post Metal Carriers. Glass Racks for Pickup Trucks are ordered and shipped with both a driver's side rack and a passenger side rack.

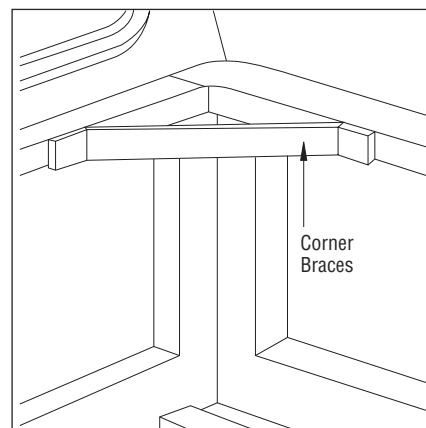
When placing your order the CRL Technical Support Staff will need to know: the CRL Glass Rack Catalog Number; the Make, Model, Year and Wheel Base of the vehicle; Cab Style (Standard or Extended); and the Bed Length (Short or Long). Many options can only be installed at time of manufacturing and should also be discussed: custom paint, signboards, or racks extension. CRL Glass Racks for Pickup Trucks are custom built and non-returnable. Racks are shipped common carrier F.O.B. Milwaukee, Wisconsin.



CHASSIS TO RACK MOUNT BARS



NEW REAR BOX STABILIZERS



BOX FRONT CORNER BRACES

TYPICAL INSTALLATION STEPS:

- (1) Identify and position driver and passenger sides by location of Fixed Front Stops.
- (2) Set A-frames on top of bed walls, align front post flush with bulkhead to clear gas flap door.
- (3) Bolt Cross Bars across top with amber lights facing forward and red lights facing rear. Adjust angle of Rack to preferred six degree tilt. Do not exceed 102" (2591 mm) side to side legal width limit. Tighten top bolts.
- (4) Check carrier for straightness. Drill and bolt A-frame Mount Rail to top lip of truck box.
- (5) Re-check carrier for straightness. Drill and bolt four Bottom Chassis Mount Bars between truck frame and underside of Ledgeboards – two front and two rear.
- (6) Drill and mount Front Box Corner Braces and Rear Box Stabilizer Assembly so closing of gate is not impaired.
- (7) Run and connect wires for clearance lights. Cut and finish opening for gas flap door using hole saw and reciprocating saw.

Barpad is a registered trademark of F. Barkow, Inc.

CRL Glass Racks for Vans

- Right or Left Side Racks Sold Individually
- Racks Available in 72" (1829 mm), 86" (2184 mm), and 96" (2438 mm) Heights
- Four Outside Stakes With Barkleats™ and Hardware
- All Welded Construction
- 1-1/2" (38 mm) Square Tube Uprights and Stakes
- Double Row of Stake Slots
- Barpad® Glass Cushions on 8" (203 mm) Centers
- Neoprene Baseplate Pads on 12" (305 mm) Centers With 5" (127 mm) Usable Ledgeboard
- Front Load Stops Left and Right
- Includes All Necessary Lights and Reflectors



Available Options:

- Cantilevered or Goal Post Metal Carriers
- Solid Sign Panels
- Stainless Steel Roof Rack
- 30" (762 mm) Vertical Rack Extension With Extendable Stakes

Available in Three Materials

* STEEL CONSTRUCTION

Rated **GOOD** - Uses high-tensile steel; primed, finished, and painted white

** ALUMINUM CONSTRUCTION

Rated **BETTER** - Lighter than steel with polished finish.

*** STAINLESS STEEL CONSTRUCTION

Rated **BEST** - lighter and stronger than steel, three times stronger than aluminum with minimum maintenance, brushed finish.

CAT. NO.	LENGTH x HEIGHT	CONSTRUCTION	MFG.#
BR606M	72" x 72" (1829 x 1829 mm)	Steel	606-MINI ¹ △
BR606MA	72" x 72" (1829 x 1829 mm)	Aluminum	606-A MINI ¹ △
BR608L	96" x 72" (2438 x 1829 mm)	Steel	608-L
BR608LA	96" x 72" (2438 x 1829 mm)	Aluminum	608-LA
BR608LS	96" x 72" (2438 x 1829 mm)	Stainless Steel	608-LS
BR608H	96" x 86" (2438 x 2184 mm)	Steel	608-H
BR608HA	96" x 86" (2438 x 2184 mm)	Aluminum	608-HA
BR608HS	96" x 86" (2438 x 2184 mm)	Stainless Steel	608-HS
BR609H	108" x 86" (2743 x 2184 mm)	Steel	609-H ²
BR609HA	108" x 86" (2743 x 2184 mm)	Aluminum	609-HA ²
BR609HS	108" x 86" (2743 x 2184 mm)	Stainless Steel	609-HS ²
BR610H	120" x 86" (3048 x 2184 mm)	Steel	610-H
BR610HA	120" x 86" (3048 x 2184 mm)	Aluminum	610-HA
BR610HS	120" x 86" (3048 x 2184 mm)	Stainless Steel	610-HS
BR610EH	120" x 96" (3048 x 2438 mm)	Steel	610-EH
BR610EHA	120" x 96" (3048 x 2438 mm)	Aluminum	610-EHA
BR610EHS	120" x 96" (3048 x 2438 mm)	Stainless Steel	610-EHS
BR612H	144" x 86" (3658 x 2184 mm)	Steel	612-H
BR612HA	144" x 86" (3658 x 2184 mm)	Aluminum	612-HA
BR612EH	144" x 96" (3658 x 2438 mm)	Steel	612-EH

Minimum order: 1 each. F.O.B. Milwaukee, Wisconsin. Must ship common carrier. △ Mini designates Racks for compact vans. NOTE: Right and left sided Racks are sold individually.

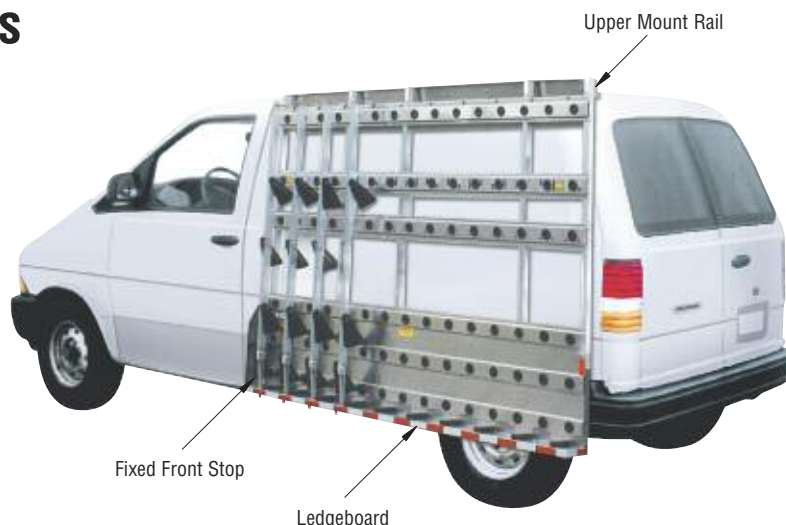
¹ Window or Passenger Vans Require Roof Rack.

² For GMC Savanna/Chevy Express

Barpad is a registered trademark of F. Barkow, Inc.

CRL Glass Racks for Vans

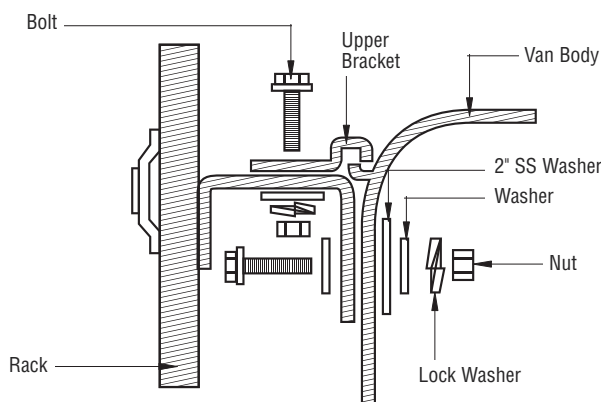
- Complete With Barkleats™, Stakes, Barpads® and Base Pads
- Made to be Field Installed With a Minimum Amount of Labor
- Available for Driver and/or Passenger Side (Sold Individually)
- Complete Instructions and Mounting Hardware



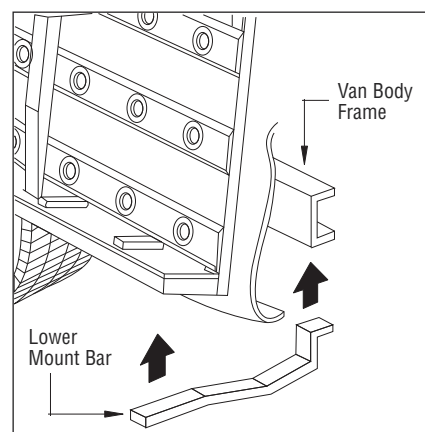
CRL Glass Racks for Vans are available in painted steel, polished aluminum, or brushed stainless steel finish. Each Glass Rack comes with complete instructions and all necessary mounting hardware. Since Van Racks are ordered individually per side, you are able to customize your van with a full driver's side rack and a short passenger side rack to clear side doors.

Popular options for CRL Van Racks are: Upper Sign Boards, 30" (762 mm) Gear and Rack Extensions, and Cantilever or Goal Post Carriers, and a Stainless Steel Roof Rack. **NOTE:** Be sure not to exceed the maximum allowable vehicle width of 102" (2591 mm).

When placing your order the CRL Technical Support Staff will need to know: the CRL Van Rack Catalog Number; the Make, Model, Year and Wheel Base of your van. If ordering for the passenger side, our staff will also need to know the type and location of doors on that side. CRL Van Racks are custom built and not returnable. Racks are shipped common carrier F.O.B. Milwaukee, Wisconsin.



TOP MOUNT



BOTTOM MOUNT

TYPICAL INSTALLATION STEPS:

- (1) Identify and position Rack according to location of Fixed Front Stop.
- (2) Place Rack against side of van with Upper Mount Rail about 1/2" (12 mm) below drip rail, or as indicated by instructions and block underneath to support Rack. Side Rails should clear side of van by about 1/2" (12 mm). Make sure door is not blocked and that vertical Rack Rail does not cover fuel door.
- (3) Adjust bottom of Rack out to set angle of six degrees. Do not exceed 102" (2591 mm) maximum allowable overall width.
- (4) Per instructions drill holes from inside van through wall and through inside of Mounting Rail.
- (5) Use supplied Rubber Shims to compensate for body curve, check Rack for straightness, and then bolt Rack in place.
- (6) Recheck for straightness and mount two Lower Mount Bars between vehicle frame and underside of Ledgeboard.
- (7) Place Upper Mount Brackets over rain gutter and drill and bolt to top of upper mounting rail.
- (8) Drill and cut opening in Rack side to provide access to fuel door. Vinyl Grommet is provided to finish edge of cut.

Barpad is a registered trademark of F. Barkow, Inc.

CRL Barkleats™

- For All CRL Glass Racks
- Triangular Shape Gives a Gripping Range From 1" to 6" (25 mm or 152 mm)



The CRL Barkleat™ Set includes the unique Barkleat™, a stainless steel bolt, stainless steel washer, and acetal wingnut. The Barkleat™ is a simple yet highly effective glass holding clamp for all CRL Racks and most other racks available today. They are molded out of fiber-impregnated rubber, which makes them weather-resistant and able to withstand years of use. The triangular design allows the CRL Barkleat™ to be used in two different orientations, giving each Barkleat™ a clamping range from 1" to 6" (25 to 152 mm).

COMPLETE BARKLEAT™ SETS

CAT. NO.	DESCRIPTION
BK36	Complete Kit with Stainless Steel Bolt
BK36A	Complete Kit with Aluminum Bolt

Minimum order: 1 each

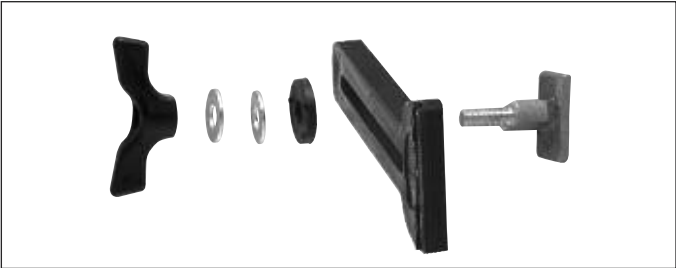
REPLACEMENT PARTS

CAT. NO.	DESCRIPTION
BKB3BOLTA	Aluminum Bolt Only
BKB3NUT	Acetal Wing Nut Only
BKB3WASHER	Stainless Steel Washer Only
BK36KO	Kleat Only/No Hardware

Minimum order: 1 each

CRL Truck Rack Kleats

- Available in Right or Left Handed
- Replacement Bolt Kits Available



The CRL Truck Rack Kleat is made from high strength phenolic with a rubber pad to secure the glass. It's gripping range is 1-1/4" to 5-3/4" (32 to 146 mm). Kleats are available in either right or left hand to resist loosening during vibration. The Kleat includes a steel and a nylon washer, as well as an oversized wing nut. The bolt and nut replacement set also includes both washers.

CAT. NO.	DESCRIPTION	QTY/PKG
687L	Complete Kleat Left Hand	1 Set
687R	Complete Kleat Right Hand	1 Set
2405686	Bolt and Nut Only L.H.	1 Set
2405699	Bolt and Nut Only R.H.	1 Set
W1NGNUT	Wing Nut Only	1 Each

Minimum order: 1 each. Complete Kleat Sets can be combined for quantity pricing.

CRL Truck Rack Stakes

- Two Sizes Available to Increase the Capacity of Your Truck Rack



CRL offers additional Truck Rack Stakes to increase your existing rack capacity. Due to the large number of sizes, styles, and options available, please visit crlaurence.com and enter the catalog number in the search box, then open the detailed CRL Truck Stake Worksheet. Fill this form out and fax back to our Quotations Department. Qualified CRL Technical Sales Personnel will complete the quote and fax it back to you.



CAT. NO.	LENGTH
BRS86	86" (2184 mm)
BRS105	105" (2667 mm)

Minimum order: 1 each. F.O.B. Milwaukee, Wisconsin.

CRL Aluminum Side Slats

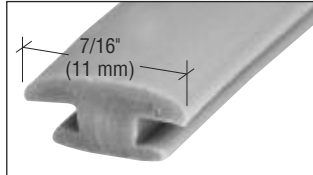
- Heavy-Duty Aluminum With Vinyl Cushions
- Make a New Rack or Fix Up Your Old One
- 12' (3.6 m) Stock Lengths

Make your own glass truck rack, or repair an old one with this CRL Aluminum Truck Side Slat. This heavy-duty Slat is made of anodized aluminum so it won't rust or split, and has 7/16" (11 mm) wide vinyl insert strips to cushion the glass. Installation with rivets or screws is easy, and the vinyl cushion is easily replaced when worn. These CRL Aluminum Side Slats are also virtually maintenance free.

ALUMINUM SIDE SLATS

CAT. NO.	LENGTH
TSS12	12' (3.6 m)

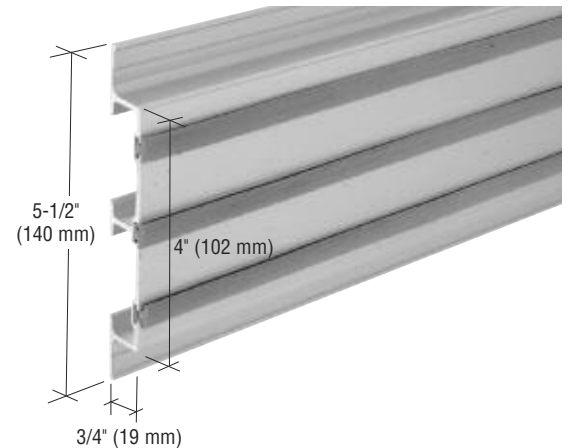
Minimum order: 1 each.



REPLACEMENT VINYL

CAT. NO.	ROLL LENGTH
TSV1203C	100' (30.5 m)
TSV1203B	750' (228 m)

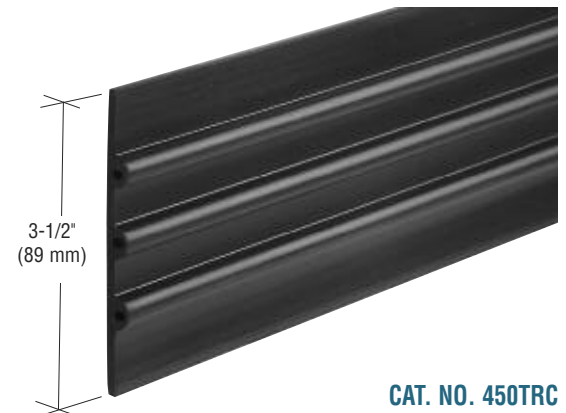
Minimum order: 1 roll.



CRL Truck Rack Cushion

- Made From Non-Marring Neoprene Rubber
- Make Your Old Rack Look Like New
- Great for Refurbishing Old Wooden Racks or Shop Dollies

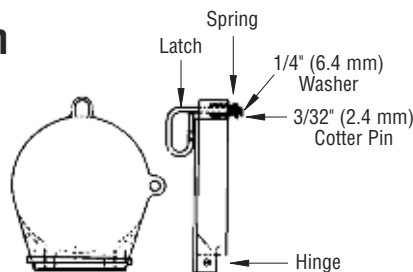
This CRL Truck Rack Cushion can be mounted on pre-existing glass rack horizontal slats. Made from weather-resistant neoprene rubber, this cushion is non-marring and provides a non-slip surface for supporting the glass. It can also be mounted to just about any surface where glass is to be stored. Just glue or tack this cushion in place for years of use. Minimum order is 12' (3.6 m). Must be ordered in 12' (3.6 m) increments.



CAT. NO. 450TRC

CRL Tube Container System

- Excellent Storage System for Moldings or Straight Edges
- Works With Common 6" (152 mm) PVC Pipe



Door Cap Cross Section



Pipe Shown Not Included

The CRL Tube Container System works with common 6" (152 mm) Schedule 40 PVC pipe to create an efficient and protective storage system for any long stock lengths of product or tools, such as straight edges and levels. Cat. No. 658TE includes one weather-tight Door Cap which you can close and lock as well as a Permanent End Cap. The Cat. No. 658SU includes two U-Bolts with Saddle Brackets to firmly mount your storage tube on your vehicle. There is no limit as to the length since you provide and cut your pipe to any size you want.

CAT. NO.	DESCRIPTION
658TE	One Door Cap and End Cap
658SU	Two Saddle Brackets and U-Bolts

Minimum order: 1 pack.

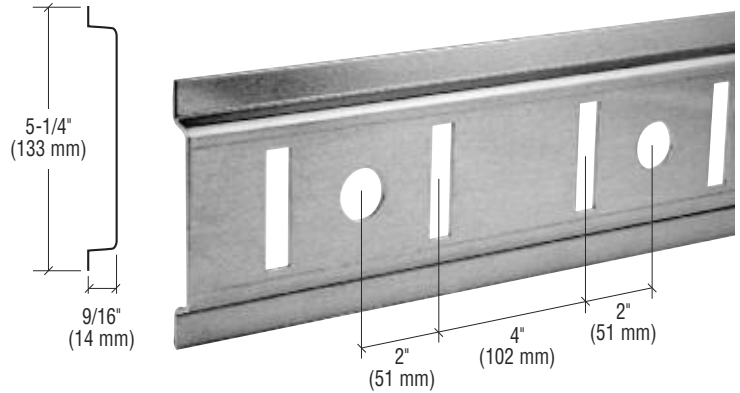
CRL Glass Rack Type "B" Side Slat

- Available in Steel or Aluminum
- Perforated for BP2 Barpads®, BP3 Barpads®, Load Stoppers, and Glass Ties
- 10' (3 m) Stock Lengths

These CRL Glass Rack Type "B" Side Slats have a combination of holes and slots. With these you can mount Cat. No. BP2 Barpads®, Cat. No. BP3 Barpads®, Cat. No. BRLS1 Load Stoppers or use our Cat. No. BRGT4 Glass Tie Straps to secure your glass loads. You can mount these Slats on existing racks or use them to make your own truck racks. Slots are 4" (102 mm) on center, and the 1" (25 mm) diameter holes are 8" (203 mm) on center.

CAT. NO.	MATERIAL	THICKNESS	LENGTH
BRBS10	Steel	12 ga.	10' (3 m)
BRBA10B	Aluminum	1/8" (3.2 mm)	10' (3 m)

Minimum order: 1 each. Must ship common carrier.



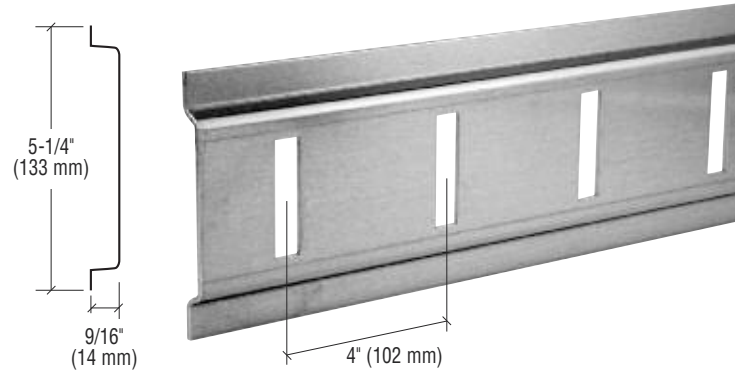
CRL Glass Rack Type "E" Side Slat

- Made From Heavy-Duty 1/8" (3.2 mm) Aluminum
- Accepts Cat. No. BP3 Barpads®
- 10' (3 m) Stock Lengths

This CRL Glass Rack Type "E" Side Slat has only slots for mounting Cat. No. BRGT4 Glass Tie Straps (see page 257K). Also accepts Cat. No. BP3 Barpads® which snap into any of the slots. You can mount these Slats to an existing rack or you can use them to make a new rack. The slots are 4" (102 mm) on center.

CAT. NO.	MATERIAL	THICKNESS	LENGTH
BRBA10E	Aluminum	1/8" (3.2 mm)	10' (3 m)

Minimum order: 1 each. Must ship common carrier.



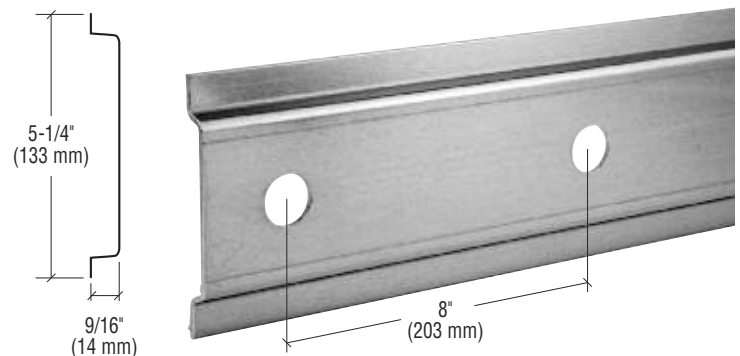
CRL Glass Rack Type "A" Side Slat

- Made From Heavy-Duty 1/8" (3.2 mm) Aluminum
- Accepts Cat. No. BP2 Barpads®
- 10' (3 m) Stock Lengths

This CRL Glass Rack Type "A" Side Slat has only 1" (25 mm) diameter holes for mounting Cat. No. BP2 Barpads®. These Slats can be mounted on existing racks as replacements, or you can use them to make new racks. Holes are located on 8" (203 mm) centers, and there are a total of 15 holes per 10' (3 m) stock length.

CAT. NO.	MATERIAL	THICKNESS	LENGTH
BRBA10A	Aluminum	1/8" (3.2 mm)	10' (3 m)

Minimum order: 1 each. Must ship common carrier.



Barpad is a registered trademark of F. Barkow, Inc.

CRL Barpads®

• Self-Adhesive or Snap-In

These CRL Barpads® are made of tough neoprene rubber and are available with either self-adhesive backing or a snap-in type. Both Barpads® are 2-3/8" (60 mm) in diameter and 1/4" (6 mm) thick. Cat. No. BP1 has the adhesive back, while Cat. No. BP2 has a round button on the back that will snap into the 1" (25 mm) diameter holes found on our aluminum or steel Side Slats. Minimum order is one each. Barpads® can be combined for quantity pricing.



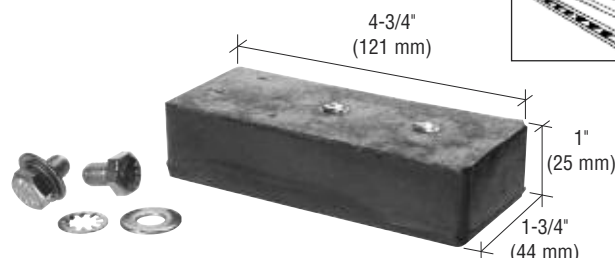
CAT. NO. BP1
Self-Adhesive



CAT. NO. BP2
Snap-In

CRL Baseplate Pads

• Made From Tough, Durable Neoprene



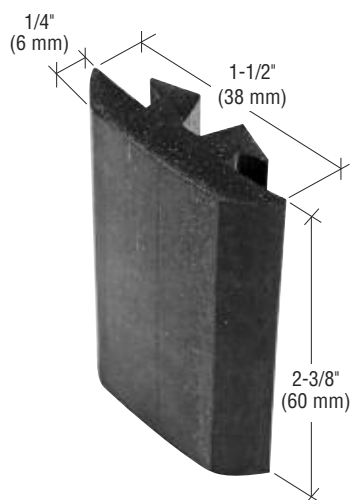
Our CRL Baseplate Pads are molded from tough neoprene rubber, and come with threaded inserts and bolts for attaching to the ledgeboard. They can be mounted on CRL Truck Racks or any other truck's glass rack with a minimum 3-1/2" (89 mm) of ledgeboard width. Minimum order is one each.

CAT. NO. BPP414

CRL Slotted Barpad®

• Fits Aluminum or Steel Slats With Slots

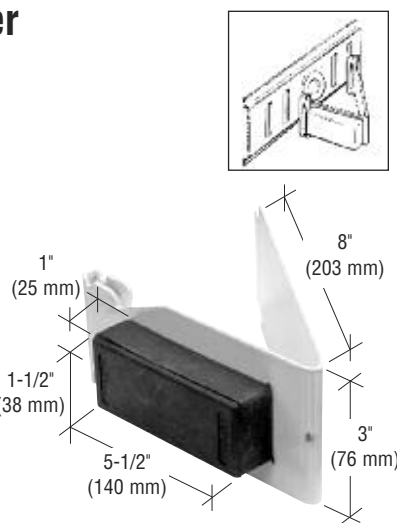
This CRL Slotted Barpad® is made of tough neoprene rubber, and designed for use on either aluminum or steel Barkow Side Slats. Choose the desired slot and this Barpad® will just snap into place. Minimum order is one each. Barpads® can be combined for quantity pricing.



CAT. NO. BP3

CRL Load Stopper

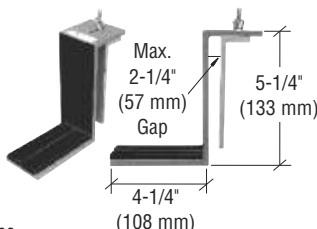
This CRL Load Stopper is designed to keep your glass loads from shifting along the truck's glass rack and ledgeboard. Designed for use with aluminum and steel Side Slats, each Load Stopper has a locking cleat, which snaps into the slat slots, holding it tight while the heavy neoprene pad cushions and protects the glass. Load Stoppers will work with either 3-1/2" or 5-3/4" (89 or 146 mm) ledgeboards. Minimum order is one each.



CAT. NO. BRLS1

CRL Slic-Rak® Glass Rack Expanders

The CRL Slic-Rak® was actually invented by a glass shop owner to maximize the rack capacity for both his truck and shop racks. The Slic-Rak® is especially handy when moving many smaller lites of glass. Just slip the mounting plate on the back of the angle over an existing slat and tighten the wingnut. The Slic-Rak® will work on slats up to 2-1/4" (57 mm) thick. Made from 1/4" (6 mm) thick aluminum angle, each has a thick neoprene pad to protect the edge of the glass and to prevent slippage. Minimum order is one pair.



CAT. NO. SLR2

Barpad is a registered trademark of F. Barkow, Inc.
Slic-Rak is a registered trademark of Thomas E. Cole.

CRL Glass Ties



The CRL Glass Tie is a very heavy 2" (51 mm) wide polyester strap with a plated steel attachment bracket on each end for use on steel or aluminum Side Slats. A spring-loaded brake locks the strap tight until depressed. This strap has a working strength of 835 pounds (380 kg).

CAT. NO.	QTY/PKG
BRGT4	4' (1219 mm)
BRGT8	8' (2438 mm)

Minimum order: 1 each. Can be combined for quantity pricing.

CRL Truck Bed Racks

- Polished Aluminum or Primed White Painted Steel
- 94" (2388 mm) Long, 62" (1575 mm) High With a 5" (127 mm) Useable Ledgeboard

CRL Truck Bed Racks are offered in interior Side Mount or A-Frame configurations to fit your individual needs. Both styles come with neoprene Base Plate Pads on 5" (127 mm) useable ledgeboards, longitudinal slats welded to uprights with snap-in Barpads on 8" (203 mm) centers, and 1-1/2" (38 mm) uprights and stakes. Offered in two finishes: polished aluminum or primed painted (white) steel.

The interior Side Mount Rack comes with three stakes, each equipped with three Barkleats™, and has convenient ladder hooks welded on the backside. Specify left or right side when ordering.

The A-Frame Rack comes with four stakes, each equipped with 3 Barkleats™. Racks are easy to install in truck bed, and just as easily removed when not needed.

Side Mount



A-Frame



CAT. NO.	STYLE	FINISH
BR808	Side Mount	Steel
BR808A	Side Mount	Aluminum
BR1012	A-Frame	Steel
BR1012A	A-Frame	Aluminum

Minimum order: 1 each. F.O.B. Milwaukee, Wisconsin.

CRL Heavy-Duty Truck Mount A-Frame

- 24,000 Lbs. (10,886 kg) Total Capacity
- Galvanized Finish
- Ships KD for Freight Savings

The CRL Heavy-Duty Truck Mounted A-Frame turns any flatbed truck or trailer into a case or stock sheet transporter. Six mounting plates are provided for bolting down to truck or trailer bed. Removable "X" and cross brace bars reduce shipping costs and offer a knocked down alternative for storage when not in use. Rubber lined uprights provide protection for uncrated products. Frame measures 60" (1524 mm) long, 48" (1219 mm) wide, and 78" (1981 mm) tall with 13" (330 mm) ledge depth. Minimum order is one each. F.O.B. Woodstock, Illinois.



CAT. NO. TMA6078

CRL Interior Glass Rack for Standard Cargo Van

- Three Stakes With Three Barkleats™ Each
- 1-1/2" (38 mm) Square, Tubular Uprights
- Longitudinal Slats With Snap-in Barpads® on 8" (203 mm) Centers
- 5" (127 mm) Usable Ledgeboards

This CRL Glass Rack for Standard Van Interiors is made with the same materials and quality construction as our exterior steel or aluminum pickup truck and van racks. They include three 1-1/2" (38 mm) square stakes with three Barkleats™ on each. All of the steel components are primed, and then painted with a white finish. Left and right side models are available, so please specify your preference when ordering. They are easily installed and will remain sturdy and reliable for years.

CAT. NO. STEEL	CAT. NO. ALUMINUM	LENGTH	HEIGHT
BR500	BR500A	96" (2438 mm)	46" (1168 mm)
BR525	BR525A	120" (3048 mm)	46" (1168 mm)
BR550	BR550A	120" (3048 mm)	60" (1524 mm)
BR575	BR575A	120" (3048 mm)	72" (1829 mm)

Minimum order: 1 each. F.O.B. Milwaukee, Wisconsin.

Barpad is a registered trademark of F. Barkow, Inc.



CRL Clamp Bars With Gearboxes

- The Quick and Easy Way to Secure Glass to Mobile Racks
- Three Sizes Available With Your Choice of Aluminium or Nylon Gear Boxes
- Custom Sizes Also Available

Our Clamp Bars are perfect for securing glass to your mobile racks. They are available in three heights with your choice of either aluminium or nylon gearboxes. Sturdy yet lightweight aluminium construction makes Clamp Bars easy to position in just seconds. All gearboxes can be adjusted up or down the Clamp Bars to the optimum height to properly secure large or small glass lites. Nylon gearboxes are especially weather-resistant. Clamp Bars are handy and affordable, and if our standard size Clamp Bars won't fit your rack, we make custom Clamp Bars too.

CRL 2200 mm Clamp Bars with Two Gearboxes

CAT. NO.	SIZE	GEARBOXES
G4000	1905 mm (75")	Two Aluminium
G4002	2200 mm (86")	Two Aluminium
G4005	2665 mm (105")	Three Aluminium
G4040	1905 mm (75")	Two Nylon
G4041	2200 mm (86")	Two Nylon
G4042	2665 mm (105")	Three Nylon

Minimum order: 1 each.



NOTE: Always be sure to check that Clamp Bars are secure and Gearboxes have been tightened before moving vehicle.

CRL Top Hat Glass Rack Channel

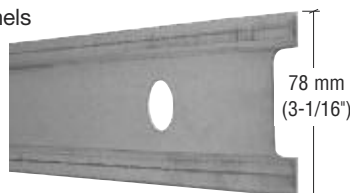
- Strong Steel Side Channel for Mobile Glass Racks

Our sturdy steel Top Hat Glass Rack Channels are perfect for fabricating mobile glass racks. They are drilled with twelve 25 mm holes to accept our CG25 Cushion Grommets. Unfinished steel channels can be painted to match existing vehicle rack.



CAT. NO.	LENGTH
TH24S	2.4 m (94")

Minimum order: 1 each. Must ship common carrier or road freight.



CRL Ribbed Rubber Strip

- Replacement for Glass Truck Racks, Storage Racks, and "A" Frames

CRL Ribbed Rubber Strip forms a cushion between the glass and metal, protecting the glass from getting damaged. Measures 45 mm (1-3/4") wide x 3 mm (1/8") thick x 10 m (393") long.



CAT. NO.	LENGTH
ATG0695	10 m (393")

Minimum order: 1 each. Must ship common carrier or road freight.



CRL Truck Strip Cushion

- Heavy-Duty Strips Protect Glass

Heavy-Duty EPDM Truck Strip Cushion is ideal as a base protector on glass truck racks, shop storage racks, and barrows. They measure 65 mm (2-1/2") wide, 30 mm (1-3/16") tall, 1 m (39-3/8") long.



CAT. NO.	LENGTH
SB10	1 m (39")

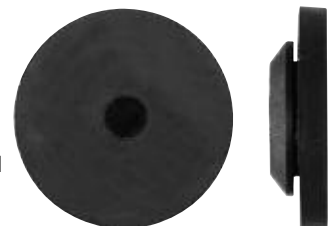
Minimum order: 1 each.



CRL Cushion Grommets

- Ideal for Use With Top Hat Glass Rack Channel

Our Cushion Grommets fit into the pre-drilled holes in the TH24S Top Hat Glass Rack Channel. Suction cup design helps keep glass from slipping. Easily installed in just seconds, they remain pliable through many seasons.



CAT. NO.	DIAMETER
CG25	50 mm (2")

Minimum order: 1 each.

CRL Ty Webbing

- Shrink Resistant Cotton



Made of shrink resistant cotton, CRL Ty Webbing has high tensile strength. It can be used to secure glass, aluminum tubes, screen doors, or other materials to your glass truck rack. It is also good for bundling lengths of track, metal or wood.

CAT. NO.	WIDTH	TENSILE STRENGTH	ROLL LENGTH
TW200	1-1/2" (38 mm)	540 lbs. (245 kg)	200' (61 m)

Minimum order: 1 Roll.

CRL Heavy-Duty Ty Webbing

- 100% Nylon



This CRL Heavy-Duty Ty Webbing is made of 100% nylon, chemically treated to be mildew and water repellant. Ty Webbing is used mostly outdoors, where it is subjected to harsh climatic conditions. It has a tensile strength of over 10,000 pounds (4536 kg), so it will hold almost anything you tie down.

CAT. NO.	WIDTH	TENSILE STRENGTH	ROLL LENGTH
TW201	1-3/4" (44.5 mm)	10,000 lbs. (4536 kg)	300' (91.4 m)

Minimum order: 1 Roll.

CRL Cotton Sash Cord

- Solid-Braided Cotton
- Great Utility Cord



This superior-quality, solid-braided CRL Cotton Sash Cord has a break strength of over 200 pounds (91 kg). It is ideal for tying, bundling, or for securing almost anything.

CAT. NO.	SIZE	BREAK STRENGTH	ROLL LENGTH
CSC316	3/16" (4.7 mm)	205 lbs. (92 kg)	100' (30.5 m)
CSC14	1/4" (6.4 mm)	220 lbs. (100 kg)	100' (30.5 m)

Minimum order: 1 Roll.

CRL Sisal Rope

- Made From Tough, Natural Sisal Fibers



Use CRL Heavy-Duty Sisal Rope for tying glass or other items to your truck or shop racks. It's made from tough, natural sisal fibers.

CAT. NO.	SIZE	ROLL LENGTH
SR14	1/4" (6.4 mm)	100' (30.5 m)
SR38	3/8" (9.5 mm)	100' (30.5 m)

Minimum order: 1 Roll.

CRL Poly Rope

- Black-Orange Truck Rope Meets C.H.P. Specifications
- Made of Polypropylene Synthetic Fibers



Black and orange CRL Poly Rope is made of intertwined polypropylene synthetic fibers that will not stretch like ordinary nylon rope. Both the 3/8" and 1/2" (9.5 and 12.7 mm) diameters meet specifications of all states requiring that non-stretch tie-downs be used on all side or top load racks.

CAT. NO.	SIZE	WORK LOAD	ROLL LENGTH
CTR3850	3/8" (9.5 mm)	405 lbs. (183 kg)	50' (15.2 m)
CTR1250	1/2" (12.7 mm)	630 lbs. (285 kg)	50' (15.2 m)

Minimum order: 1 Roll.

CRL 2-Ton Power Puller

- 4,000 Pound (1814 kg) Maximum Load Pulling Capacity
- Convenient Thumb Control Reversing Ratchet
- 21" to 72" (533 to 1829 mm) Pulling Range



This manually operated CRL 2-Ton Power Puller is ideal for lifting crates, machinery, motors, small cases of glass and more up to two tons (1814 kg). All steel plates are plated, and cast parts are made of special heat-treated steel. Large, full capacity take-up drum and 6' (1,829 mm) long, 3/16" (4.8 mm) diameter galvanized aircraft cable with self-aligning steel spool. Minimum order is one each.

CAT NO. 30329

CRL Igloo® 5 Gallon Water Cooler

- Meets OSHA Requirements
- Keeps Water Cold and Clean

This CRL Igloo® 5 Gallon Water Cooler has the best cold water retention in the water cooler industry. Rugged and durable, it keeps water cold and clean longer, and is ideal for hydrating the entire crew on the job site or in the shop. Built for the real world, the cooler takes the abuse of the toughest job site and the most punishing work crews. All plastic, rustproof construction. Sanitary white liner, foamed-in-place Ultratherm® insulation. Drinking Water imprint meets OSHA requirements. Safety yellow with red lid. Truck Mount Rack, Cup Dispenser, and Cups are all sold separately.



CAT. NO.	DESCRIPTION
000451	5 Gallon (18.9 l) Cooler
025042	Truck Mount Rack
008242	Cup Dispenser
025010	4.25 Oz. (1.25 l) Cone Cups 200/Box

Minimum order: 1 each; For Cups: 1 box.

CRL Wheel Step

- Gives Easy Access to Windshields on Large Vehicles
- Perfect for Trucks and SUV's
- Rated to 500 Pounds (227 kg)



The CRL Wheel Step makes it easier for you to reach windshields on large vehicles, such as pickups and SUV's. Simply unfold Wheel Step, hook it over the tire, and step up to work on the windshield. Wheel Step gives you a 12" to 20" (305 to 508 mm) boost, depending on tire size. It has a non-slip surface, and folds flat for storage. Minimum order is one each.

CAT. NO. SL493

CRL Universal Tie-Downs

- Easy-Release Ratchet and 6' (1.83 m) Straps Are Fully Adjustable
- Greater Holding Tension
- Vinyl Coated Hooks



These CRL Universal Tie-Downs provide unlimited ways to securely tie down cargo. The cam buckles will not slip, yet will release instantly with thumb pressure. The high tensile steel hooks are extra strong and vinyl coated to protect painted or chrome finishes. Each Tie-Down features 1" (25 mm) wide nylon webbing that is long lasting and provides maximum strength. Each 6 foot (1.83 m) Tie-Down has an average rated capacity of 2,000 pounds (907 kg). Four per pack. Minimum order is one pack.

CAT. NO. 6381

CRL Web Strap and Clamp

- Positive, Even Pressure
- Ratchet Action Clamp
- 12' (3.6 m) Long, Tough Nylon Webbing

The ratchet-action clamp keeps the nylon webbing on this CRL Web Strap and Clamp tight. Made of tough nylon, the webbing is 12' (3.6 m) long and 1" (25 mm) wide. This Strap has a capacity rating of 1500 pounds (680 kg). Minimum order is one each.



CAT. NO. ST83159

CRL 10-Piece Bungee Cord Assortment

- Vinyl Coated Hooks

This CRL Bungee Cord Assortment is made of high quality rubber which is encased in long-lasting stretch braid. The hooks are vinyl coated to prevent scratches. This is the perfect Bungee Cord Assortment to have stored in your truck. Minimum order is one pack.

Contents: 2 ea. 16" (406 mm);
4 ea. 24" (610 mm);
4 ea. 36" (914 mm).



CAT. NO. 6102

Igloo and Ultratherm are registered trademarks of Igloo Products Corp.

CRL STORAGE AND HANDLING

For Pricing Visit crlaurence.com or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

CRL Mini Stretch Film and Dispensers

- Wraps and Unwraps Without Damaging Surfaces or Leaving Residue
- Costs Less Than Strapping Tape, Twine or Wire
- Perfect for Bundling Lengths of Aluminum Channels or Screen Frame

CRL Mini Stretch Film is an economical alternative to strapping tape, twine or wire. It comes in two convenient sizes, 3" (76 mm) and 5" (127 mm). It provides visibility while eliminating surface damage or adhesive residue on boxes, metals, etc. It clings to itself without adhesives. The 80 gauge thickness makes this film highly puncture resistant.

CRL Stretch Film Dispensers hold 3" and 5" (76 and 127 mm) rolls. The Deluxe Dispenser features a soft E-Z grip handle, and has an adjustable brake.



CAT. NO. HW380
Stretch Film



CAT. NO. SL256
Standard Dispenser



CAT. NO. SL257
Deluxe Dispenser

CAT. NO.	DESCRIPTION	QTY/CASE
HW380	3" x 1500' (76 mm x 457 m) Stretch Film	16
HW580	5" x 1500' (127 mm x 457 m) Stretch Film	12
SL256	Standard Dispenser	1
SL257	Deluxe Dispenser	1

Minimum order: 1 each for Dispenser; 1 roll for Stretch Film. Sizes can be combined for quantity pricing.

CRL 18" Stretch Wrap and Dispenser

- Economical Way to Secure Loads
- Easy-to-Use Heavy-Duty Dispenser

This CRL 18" (457 mm) Stretch Wrap is an easy way to secure pallet loads without strapping or expensive tie-downs. The roll fits on the economical, Heavy-Duty Dispenser to facilitate wrapping and stretching of the film to secure the load. The adjustable Heavy-Duty Dispenser can accommodate rolls with a standard 3" (76 mm) core and a range of 12" to 20" (305 to 508 mm) wide. The adjustable tension allows full control of the Stretch Wrap.



CAT. NO. SW181500
18" (457 mm) Stretch Wrap



CAT. NO. SL277
Dispenser

CAT. NO.	DESCRIPTION	QTY/CASE
SW181500	18" x 1500' (457 mm x 457 m) Stretch Wrap	4
SL277	Heavy-Duty Dispenser	1

Minimum order: 1 each for Dispenser; 1 roll for Stretch Wrap.

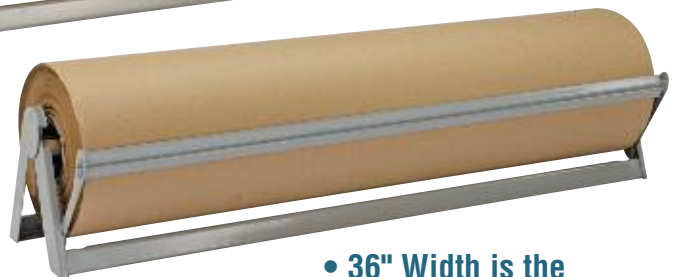
CRL Kraft Paper and Dispensers

- Heavy 60 Pound Weight in Two Widths
- Rugged All Steel Dispensers

Heavy 60 pound weight Kraft Paper is ideal for wrapping and packing breakable items (glass and mirrors, etc.) for shipping. Large 825' (251 m) roll costs pennies per square foot. Rugged all steel Dispenser with spring-loaded blade can be mounted on walls, table tops or under counters. Both can be shipped U.P.S. Paper and Dispensers are sold separately.



- 18" Width is Convenient for Packaging



- 36" Width is the Best Seller

CAT. NO.	WIDTH	DESCRIPTION
K60W18	18" (457 mm)	825' (251 m) Kraft Paper
K60W36	36" (914 mm)	825' (251 m) Kraft Paper
A50018	18" (457 mm)	Dispenser
A50036	36" (914 mm)	Dispenser

Minimum order: 1 each.



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CRL Safety Apparel and Equipment

Gloves

From Glass Handling Gloves to Work Gloves to Nitrile and Latex Gloves, CRL provides you with the most up-to-date products in the industry. From the very popular CRL Gauntlet Cuff Natural Rubber Gloves to the latest cut protection Atlas® and Nitrile Textured Gloves, CRL offers the various glove styles you need for all glass fabrication and general work requirements.



new

Look for the "NEW" icon. It accompanies tools being introduced in this catalog. It also alerts you to improved designs or new options for existing tools.



Glassworker Cut Protection Gear

CRL knows how important it is to be wearing the right equipment when cutting and fabricating glass. CRL has several types and styles of Sleeves, Jackets, and Wrist Protectors that are both comfortable and provide maximum protection. CRL's new "Oversize" Sleeves are perfect for those winter months when you need to wear the Sleeves over a sweater or jacket. We also provide all the information you need to order Custom Sleeves or Jackets.



Safety Glasses

CRL has the latest selections of lens colors and frame styles in Safety Eye Wear. Choose from new wrap around clear, smoke and indoor/outdoor lenses as well as new frame designs with great standard features. CRL has the latest in Safety Eye Wear products.



Hearing Protection

If you need Band Mounted or Cap Mounted Hearing Protectors, CRL has the latest designs and features. There are also selections of Reusable and Disposable Ear Plugs for both small and large shop environments.



Respiration Protection

CRL offers a range of products for respiration safety. From simple dust masks, up to HEPA filtered masks, CRL carries the latest in respiration protection.



First Aid Kits

CRL has a selection of the most up-to-date First Aid Kits available for the glass fabrication industry. From Small Shop Kits to Wall Mounted Metal Supply Cabinets, CRL offers the latest technology in First Aid.

Atlas is a registered trademark of Showa Glove Company.

CRL Gauntlet Cuff Smooth Natural Rubber Palm Gloves

- For Handling Glass and Sheet Metal
- Allows Freedom of Hand Movement
- A Favorite With Glass Fabricators

CRL Gauntlet Cuff Glass Handling Gloves have a special smooth, natural rubber coating on the palm side, and their flexible back allows freedom of hand movement. The interior is lined for comfort with soft, fleece-like material. Available in full Gauntlet Cuff or loose Knit Wrist Glove styles. Reference Cat. No. 10 on page 265K for Knit Wrist style. Minimum order is one pair.



CAT. NO. 12

CRL "New Style" Gauntlet Cuff Smooth Palm Gloves

- For Handling Glass and Sheet Metal
- Quality Glove at a Cost Savings
- Smooth Rubber Coating for Glass Use

New Style CRL Glass Handling Work Gloves have a special smooth, natural rubber coating on the palm side. Their flexible back allows freedom of hand movement. The interior is lined for comfort with soft, fleece-like material. Minimum order is one pair.



CAT. NO. SG12

CRL Gauntlet Cuff Wrinkle Finish Natural Rubber Palm Gloves



- Wrinkled to Prevent Slippage
- For Handling Glass or Sheet Metal
- Flexible Natural Rubber Coating

CRL Gauntlet Cuff Wrinkle Finish Rubber Gloves offer improved wet or dry gripping. Natural rubber gives you higher cut and snag resistance, with more flexibility and increased wear. We have added a soft interlining for your comfort. Available in Gauntlet Cuff or Knit Wrist styles. Reference Cat. No. 63PNFW on page 265K for Knit Wrist style. Minimum order is one pair.



CAT. NO. 66NFW

CRL Insulated Gauntlet Cuff Wrinkle Finish Natural Rubber Palm Gloves



- Foam Insulated for Working in Colder Climates
- Cushioned Warmth and Comfort

Fully insulated with a cushioned foam liner, these wrinkled finish CRL Insulated Gauntlet Cuff Glass Handling Gloves are ideal for working outside in cold climates, snow, sleet or wet weather. You can also wear them and work in comfort inside cold storage or refrigerated compartments. Their highly flexible latex coating gives them high cut and snag resistance and durability. Minimum order is one pair.



CAT. NO. 96NFW

All CRL Gloves can be combined for quantity pricing.

CRL Knit Wrist Smooth Natural Rubber Palm Gloves

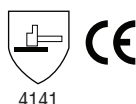
- A Favorite With Glass Fabricators for Handling Glass and Sheet Metal
- Smooth Rubber Coating for Glass Use

CRL Knit Wrist Glass Handling Gloves have a special smooth natural rubber coating on the palm side. Their flexible back allows freedom of hand movement. The interior is lined for comfort with soft, fleece-like material. Available in full Gauntlet Cuff or loose Knit Wrist Glove styles. Reference Cat. No. 12 on page 264K for Gauntlet Cuff style. Minimum order is one pair.



CAT. NO. 10

CRL Knit Wrist Wrinkle Finish Natural Rubber Palm Gloves



- Wrinkle Finish Helps Prevent Slippage
- Wet or Dry Gripping of Glass or Sheet Metal
- Flexible Natural Rubber Coating

CRL Wrinkle Finish Rubber Gloves with Knit Wrist Cuff offer improved wet or dry gripping. Natural rubber gives you higher cut and snag resistance, with more flexibility and increased wear. We have added a soft inner lining for your comfort. Available in Knit Wrist or Gauntlet Cuff styles. Reference Cat. No. 66NFW on page 264K for Gauntlet Cuff style. Minimum order is one pair.



CAT. NO. 63PNFW
Regular

CAT. NO. L63PNFW
Small

CRL Glove Sizing

All glove sizes vary depending upon their style. Nitrile gloves for instance, require a skin tight fit. On the other hand, general purpose work gloves or glass handling gloves need not fit too tight or too loose. Measure around the palm of your hand, and use the chart to the right to get the correct fit.

- What Size Glove Should You Order?
- Use the Chart Below to Determine the Correct Size

SIZE	PALM MEASUREMENT
Small	7" to 8" (178 to 203 mm)
Medium	8" to 9" (203 to 229 mm)
Large	9" to 10" (229 to 254 mm)
X-Large	10" to 11" (254 to 279 mm)



Measure around your palm

All CRL Gloves can be combined for quantity pricing.

Technical Information for CRL Gloves

LAUNDERING AND CLEANING INSTRUCTIONS: This information may be located on the C.R. Laurence web site, crlaurence.com, by clicking on Additional Product Information for each specific product.

CUT AND PUNCTURE RESISTANCE LEVELS: If information concerning Cut and Puncture Resistance is available, it will be noted along with the glove description and specifications in the catalog.

EUROPEAN SPECIFICATIONS: European specifications tested in accordance with EN388/EC type examination may show the insignia  followed by a series of four numbers, i.e., 4142. These numbers indicate the Resistance Level from 1 to 5 (5 being highest) and always in the following category order: Abrasion, Cut, Tear, and Puncture. If complete testing has not been completed, individual ratings may be noted.

U.S. SPECIFICATIONS: U.S. Specifications are tested using ANSI Standards and are rated on the same 1 to 5 scale, however, the testing procedures may differ from European testing procedures.

CRL Brand Knit Fit Gloves

- Quick and Easy On and Off
- Machine Washable and Dryable

CRL Brand Knit Fit Gloves have wrinkled finish latex coated palms that are ideal for handling all smooth surfaces, even wet glass. The seamless knit liner makes them form-fitting for increased comfort, and the uncoated back section allows your hand to breathe. Machine washable CRL Brand Knit Fit Gloves will provide you with the gripping power, dexterity, durability, and protection you need on the job.

Knit Fit Gloves are available in small, medium, large, and extra-large sizes to fit any size hand comfortably. They feature comfortable poly-cotton knit with durable wrinkle finish palms and fingers for a secure grip on all surfaces.



CAT. NO.	SIZE
KF1TS	Small
KF1TM	Medium
KF1TL	Large
KF1TXL	X-Large

Minimum order: 1 pair. All CRL Gloves can be combined for quantity pricing.

- Available in Four Sizes

CRL Atlas® Fit Gloves

- Excellent Choice for Glass Handling
- Flexible, Form-Fitting, and Ventilated
- A Great Glove for Shop or Job Site Work

The CRL Atlas® Fit Glove is perfect for light lifting situations where hand protection is needed. The poly-cotton knit glove is latex covered for maximum durability, and protects your hands while providing ventilation through the back and wrists. The specially formulated latex palm provides maximum wet gripping power while it guards against punctures and abrasions. Both versatile and economical, the CRL Atlas® Fit Glove is a sure winner in hand protection. They are available in small, medium, large, and extra-large.



CAT. NO.	SIZE
300AFS	Small
300AFM	Medium
300AFL	Large
300AFXL	X-Large

Minimum order: 1 pair. All CRL Gloves can be combined for quantity pricing.

- Available in Four Sizes

CRL Brand Knit Nitrile Gloves

- Our Most Affordable Nitrile Coated Knit Gloves
- Machine Washable and Dryable

These affordable Knit Gloves have a nitrile coating on the palms and fingers which makes them ideal for handling glass. A seamless polyester knit liner makes them form fitting, while the well ventilated back allows your hand to breathe. These lightweight gloves provide a high level of dexterity and sensitivity, and can be used around oils, greases, and paints. Machine washable.



CAT. NO.	SIZE
NF1TS	Small
NF1TM	Medium
NF1TL	Large
NF1TXL	X-Large

Minimum order: 1 dozen pair. Sold only by the dozen. All CRL Gloves can be combined for quantity pricing.

- Available in Four Sizes

Atlas is a registered trademark of Showa Glove Company.

CRL GLASS HANDLING GLOVES

For Pricing Visit crlaurence.com or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

CRL Fuzzy Duck® PVC Gloves

- Breathable PVC Coating Keeps Hands Cool
- Two-Piece Jersey Liner for Comfort
- Excellent Gripping Properties on Glass
- Four Sizes to Assure a Perfect Fit
- ANSI Cut Resistance: 1

CRL Fuzzy Duck® PVC Gloves have a breathable PVC coating on a soft, cool, comfortable, two-piece jersey liner. Their textured coating provides an excellent grip on glass, and minimizes absorption of water, oil, and grease. Although not a true anti-vibration glove, they are able to absorb and minimize shock. Fuzzy Duck® Gloves outwear and replace cotton, light-to-medium weight leather, and goatskin gloves in a wide variety of applications. Sold only by the pair.



CAT. NO.	SIZE
962FDS	Small
962FDM	Medium
962FDL	Large
962FDXL	X-Large

Minimum order: 1 pair. All CRL Gloves can be combined for quantity pricing.

CRL Atlas® Cut Resistant Gloves

- The Perfect Glove for Glass Fabricators
- ANSI Cut Resistance: 3

CRL's new Atlas® Cut Resistant Gloves are used by glass fabricators to protect against cuts, punctures, and slashes. The 10-gauge 100% fiber seamless knit liner provides an ergonomic fit as well as an outstanding grip.



CAT. NO.	SIZE
300KVS	Small
300KVM	Medium
300KVL	Large
300KVXL	X-Large

Minimum order: 1 pair. All CRL Gloves can be combined for quantity pricing.

CRL D-Flex® Cut Resistant Glass Handling Gloves

- ANSI Cut Resistance: 4

We offer D-Flex® Cut Resistant Glass Gloves in two popular sizes and material weights. All D-Flex® products are sold only by the pair.



CAT. NO.	TYPE	SIZE
910CM	Light Weight	Medium
910CL	Light Weight	Large
917CM	Medium Weight	Medium
917CL	Medium Weight	Large

Minimum order: 1 pair. All CRL Gloves can be combined for quantity pricing.

CRL Atlas® Textured Nitrile Coated Gloves

- Exceptional Grip
- ANSI Cut Resistance: 2

This durable flat-dipped dark green colored Nitrile Coated Glove features exceptional grip, dexterity, and durability with oil resistant Nitrile coating. The cotton/polyester lining provides an extremely comfortable fit. An elastic knit wrist secures the glove above the wrist for comfort and prevents debris from entering the glove.



CAT. NO.	SIZE
350S	Small
350M	Medium
350L	Large
350XL	X-Large

Minimum order: 1 pair. All CRL Gloves can be combined for quantity pricing.

CRL Atlas® Thermo-Fit Insulated Gloves

- Available in Four Sizes
- Wrinkle Finish
- ANSI Cut Resistance: 3

This cold weather glove combines a mixture of acrylic loop-in terry cotton liner for warmth, lightweight feel and suppleness. The natural rubber coating on the palm and fingertips protects the hand from abrasion, cutting, puncturing, and tearing. The rough textured grip allows slippery objects to be gripped firmly. This durable glove is ideal for all work in cold rooms or outside in cold weather conditions.



CAT. NO.	SIZE
451S	Small
451M	Medium
451L	Large
451XL	X-Large

Minimum order: 1 pair. All CRL Gloves can be combined for quantity pricing.

Fuzzy Duck, Atlas, and D-Flex are all registered trademarks of Showa Glove Company.

CRL GENERAL PURPOSE WORK GLOVES

For Pricing Visit crlaurence.com or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

CRL Brand GripPro Impact Performance Gloves

- Shock Absorbing Impact-X Padding
- Heavy-Duty Elastic Hook and Loop Closure
- Lightweight and Durable RhinoTex Synthetic Leather Palm

CRL Brand GripPro Impact Performance Gloves provide superior protection against injury-causing shock and impact. Made with the finest materials available, they are designed to endure demanding environments while providing comfort. They are also machine washable.



• Five Sizes



CAT. NO.	SIZE
GR1PS	Small
GR1PM	Medium
GR1PL	Large
GR1PXL	X-Large
GR1P2X	XX-Large

Minimum order: 1 pair. Sold only by the pair.
Sizes can be combined for quantity pricing.

CRL Mechanix Wear® M-Pact® Gloves

- No Other Glove Compares for Superior Comfort and Feel
- CRL is the Exclusive Distributor to the Glass Industry

CRL Mechanix Wear® M-Pact® Gloves offer the same quality construction and materials as the Original® Mechanix Gloves, but have additional padding and foam-filled patches on the palm area to absorb the vibrations from power tools and impact tools like hammers or air tools. This helps to eliminate the potential for injuries. Easy on-off fit with hook-and-loop wrist closures.



CAT. NO.	DESCRIPTION	SIZE
MPT010	Black M-Pact® Gloves	Large
MPT011	Black M-Pact® Gloves	X-Large
MPT012	Black M-Pact® Gloves	XX-Large

Minimum order: 1 pair. Sold only by the pair.

CRL Mechanix Wear® FastFit® Gloves

- Easy-Entry, Wide Opening, Elastic Cuff
- Soft, Durable Clarino® Synthetic Leather Palm
- Reinforced Thumb and Fingertips
- Available in Blue and Black

CRL's Mechanix Wear® FastFit® Gloves give you great comfort, flexibility, and protection. You'll work with more confidence when wearing these gloves. You get uncompromising comfort and protection from abrasion without losing dexterity when performing even the most difficult task.



CAT. NO.	DESCRIPTION	SIZE
MFF03010	Blue FastFit® Gloves	Large
MFF05010	Black FastFit® Gloves	Large
MFF03011	Blue FastFit® Gloves	X-Large
MFF05011	Black FastFit® Gloves	X-Large

Minimum order: 1 pair. Sold only by the pair.

CRL Mechanix Wear® The Original® Gloves

- The Tool That Fits Like a Glove
- Ergonomically and Anatomically Designed
- Machine Washable
- Available in Blue and Black

CRL Mechanix Wear® The Original® Glove, the glove that started it all, has been a mainstay in just about every industrial work setting.

Mechanix Wear, M-Pact, FastFit, and The Original are all registered trademarks of Mechanix Wear, Inc. Clarino is a registered trademark of Kuraray Co., Ltd.



CAT. NO.	DESCRIPTION	SIZE
MG03010	Blue Mechanix Wear® Gloves	Large
MG05010	Black Mechanix Wear® Gloves	Large
MG03011	Blue Mechanix Wear® Gloves	X-Large
MG05011	Black Mechanix Wear® Gloves	X-Large

Minimum order: 1 pair. Sold only by the pair.



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CRL GENERAL PURPOSE WORK GLOVES

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CRL Nitri-Flex® Lite Gloves



- Popular With Auto Glass Professionals
- Smooth Finish
- ANSI Cut Resistance: 1



CRL's Nitri-Flex® Lite Gloves are the choice of auto glass professionals. This very comfortable glove has a nitrile coated palm with smooth finish. The seamless nylon knit liner provides moisture absorption and all weather comfort.

CAT. NO.	SIZE
2404130	Medium
2404264	Large
2404131	X-Large

Minimum order: 1 pair.

CRL Nitri-Flex® Plus Gloves



- The Auto Glass Professionals Glove
- Textured Finish
- ANSI Cut Resistance: 2



Used extensively by auto glass professionals, the Nitri-Flex® Plus provides all day comfort as well as excellent gripping power. This nitrile coated glove with textured finish provides an alternative to cotton and lightweight leather gloves. The seamless cotton poly-knit liner allows your hands to breathe in all weather conditions.

CAT. NO.	SIZE
2404132	Medium
2404133	Large
2404265	X-Large

Minimum order: 1 pair.

CRL Sure Grip Glass Gloves

- Knit Wrist
- Coated Palm
- Thread-Rubber Finish



These Sure Grip Glass Gloves are comfortable, pliable gloves that provide the user with an extremely aggressive grip. Vulcanized rubber coated fingers and palm on a cotton knit base makes this glove safe, durable, and flexible. Minimum order is one pair.

CAT. NO. 2404065

CRL Leather Gloves

- All-Leather Palm, Thumb, Forefinger, and Fingertips
- Gauntlet Cuff With Elastic Wrist Band



These heavy-duty CRL Leather Gloves feature an all-leather palm, thumb, forefinger, and fingertips. The rubberized, waterproof safety cuff, leather knuckle strap, and elastic wrist band make them comfortable to wear. They offer strong, rugged protection. Minimum order is one pair.

CAT. NO. LG5231

CRL Knit Wrist Cotton Gloves

- White 100% Cotton for Light Duty Work
- Washable



These CRL 100% Cotton Gloves are excellent for light-duty shop work or clean up. Knitted wrist bands allow for easy removal. Also ideal for home and garden use. They offer only minimal protection against cuts or abrasions. Minimum order is one pair.

CAT. NO. 8K

CRL Vinyl Coated Cotton Work Gloves

- Flexible and Durable
- Washable



CRL's Vinyl Coated Cotton Work Gloves have a grainy, vinyl finish that is both flexible and durable. These gloves provide a firm grip on metal, wood, or glass surfaces. The cotton material breathes so that hands feel more comfortable. They remain pliable after washing and drying. Minimum order is one pair.

CAT. NO. 2404105

All CRL Gloves can be combined for quantity pricing.
Nitri-Flex is a registered trademark of Showa Glove Company.

CRL Disposable Nitrile Gloves

100% Nitrile Gloves provide better protection against solvents, and resist a broad range of chemicals where more splash protection is required than you can get with latex gloves. Nitrile compound gives greater puncture resistance than comparable natural rubber and vinyl disposable gloves. They also provide greater comfort by reducing hand pressure and fatigue caused by elastomeric stress.



- Medical Grade
- Provide Resistance Against Solvents and Other Chemicals
- Powder Free
- Available in Four Sizes

CAT. NO.	SIZE	QTY/BOX
7005SM	Small	100
7005MD	Medium	100
700512	Large	12 Pair
7005NG	Large	100
7005XL	X-Large	90

Minimum order: 1 box. All gloves on this page can be combined for quantity pricing.

CRL Powder Free Disposable Latex Gloves

These CRL Powder Free Disposable Latex Gloves minimize the risk of allergic reaction to protein or chemical residue. They are made of natural rubber and molded to be worn on either hand. The fully-textured surface provides superior grip in wet or dry applications.



- Fully-Textured Surface
- Can Be Worn on Either Hand
- Powder Free
- Available in Four Sizes

CAT. NO.	SIZE	QTY/BOX
262SM	Small	100
265MD	Medium	100
266LG	Large	100
268XL	X-Large	90

Minimum order: 1 box. All gloves on this page can be combined for quantity pricing.

CRL Tear Resistant Black Latex Gloves

CRL's Tear Resistant Black Latex Gloves are designed to provide extra protection and stronger resistance to wear and tear on the job. The thickness of the fingers is almost double that of regular latex gloves. The added thickness provides confidence for manufacturing professionals during glass fabrication.



- 10 Mil Thickness for Extra Protection
- Textured Surface for Superior Grip
- Powder Free
- Available in Four Sizes

CAT. NO.	SIZE	QTY/BOX
2005SM	Small	100
2005MD	Medium	100
2005LG	Large	100
2005XL	X-Large	90

Minimum order: 1 box. All gloves on this page can be combined for quantity pricing.

CRL Black Nitrile Gloves

CRL's Black Nitrile Gloves are the alternative for those who are allergic to natural rubber latex. The textured surface makes them an excellent choice for the glass fabrication industry in both wet and dry applications. These gloves provide puncture, tear, and chemical resistance while allowing excellent dexterity.



- 100% Latex Free With No Powder
- Textured Surface for Superior Grip
- Excellent Puncture and Tear Resistance
- Resistant to Solvents

CAT. NO.	SIZE	QTY/BOX
5005SM	Small	100
5005MD	Medium	100
5005LG	Large	100
5005XL	X-Large	90

Minimum order: 1 box. All gloves on this page can be combined for quantity pricing.

CRL Lint Free Nylon Gloves

- A Must for Insulating Glass Fabrication
- Keeps Fingerprints Off Glass



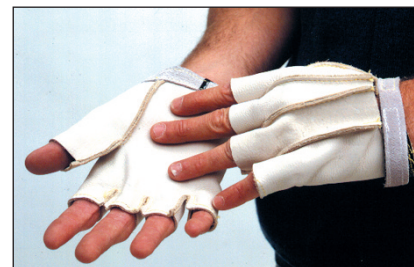
CRL Lint Free Nylon Gloves are perfect for handling glass or mirrors without oily fingerprints or other contaminants. An absolute must for handling glass during insulated glass fabrication. Gloves are available in two sizes to fit most hands.

CAT. NO.	SIZE
NG170	Small
NG171	Large

Minimum order: 1 dozen pairs. Sizes can be combined for quantity pricing.

CRL Fingerless Gloves

- Made of Top Grain Cowhide
- Hook-and-Loop Closure Around Wrist



These CRL Fingerless Gloves will help protect your palms and lower finger areas while handling glass or other sharp objects. Your finger tips remain exposed enough to allow dexterity and handling. Sold only by the pair.

CAT. NO.	SIZE
FGS	Small
FGL	Large

Minimum order: 1 pair. Sizes can be combined for quantity pricing.

CRL Atlas® Nitrile Gloves

- Tough Nitrile Coating
- Resists Many Chemicals
- ANSI Cut Resistance: 2



These CRL Atlas® Nitrile Gloves have a coating that make them extra resistant to punctures and abrasions. That's good news for glaziers with heavy jobs to do! The patented Atlas dipping process and seamless knit liner give hands comfortable protection. Machine washable. Sold only by the pair.

CAT. NO.	SIZE
PR0720	X-Large

Minimum order: 1 pair.

CRL Flexx-Rap® Protective Wrap for Hands and Fingers

- Waterproof, Flexible, and Porous
- Self-Adhesive Without Leaving Residue



CRL Flexx-Rap® is an innovative tape that protects fingers from cuts and blisters. It also improves your grip when wrapped around fingers, tools, or sporting equipment. Flexx-Rap® is waterproof, flexible, porous, hypoallergenic, and self-adhesive. Flexx-Rap® goes on easily and won't come loose with movement, even when wet. If you work with your hands, protect them with Flexx-Rap®. Roll size is 1" x 15' (25 mm x 4.6 m). Minimum order is one roll.

CAT. NO. FR51

Technical Information for CRL Gloves

LAUNDERING AND CLEANING INSTRUCTIONS: This information may be located on the C.R. Laurence web site, crlaurence.com, by clicking on Additional Product Information under each specific product.

CUT AND PUNCTURE RESISTANCE LEVELS: If information concerning Cut and Puncture Resistance is available, it will be noted along with the glove description and specifications in the catalog.

EUROPEAN SPECIFICATIONS: European specifications tested in accordance with EN388/EC type examination may show the insignia  followed by a series of four numbers, i.e., 4142. These numbers indicate the Resistance Level from 1 to 5 (5 being highest) and always in the following category order: Abrasion, Cut, Tear, and Puncture. If complete testing has not been completed, individual ratings may be noted.

U.S. SPECIFICATIONS: U.S. Specifications are tested using ANSI Standards and are rated on the same 1 to 5 scale, however, the testing procedures may differ from European testing procedures.

Atlas is a registered trademark of Showa Glove Company.
Flexx-Rap is a registered trademark of Henry, D.F.

CRL Glassworkers Protective Sleeves

- Staggered Grommets Protect Against Puncture
- Custom Sleeves and Options Available
- ANSI Cut Resistance: 1



Strap Close Up



Sleeve Close Up

CRL Glassworkers Sleeves provide vital protection for your arms and shoulders. Made of strong, reinforced, white cotton denim with staggered grommets to protect against glass puncture and provide ventilation. Elastic shoulder straps make them easy and comfortable to wear. Sold only in pairs.

NOTE: For replacement elastic straps, order Cat. No. GWSSTRAP.



CAT. NO.	LENGTH	SIZE
GWS8353	25" (635 mm)	Small
GWS8354	27" (686 mm)	Medium
GWS8355	29" (737 mm)	Large

Minimum order: 1 pair. Can be combined with all other glassworker's sleeves for quantity pricing.

CRL Glassworkers Oversize Protective Sleeves

- Extra Width From Top to Bottom
- Fit Easily Over Jackets
- Two Sizes Available
- ANSI Cut Resistance: 1

CRL's Oversize Protective Sleeves are wider than our standard sleeves, and are perfect for those cold, winter weather months because they can be comfortably worn over heavy sweaters or jackets with complete range of motion. The extra-wide Sleeves are made to the same rigid specifications and provide the same level of protection as our standard sleeves. Sold only in pairs.

NOTE: For replacement elastic straps, order Cat. No. GWSSTRAP.



Sleeve Close Up



Strap Close Up



CAT. NO.	LENGTH	SIZE
GWS8374	27" (686 mm)	Medium
GWS8375	29" (737 mm)	Large

Minimum order: 1 pair. Can be combined with all other glassworker's sleeves for quantity pricing.

How to Order Custom CRL Glassworkers Protective Sleeves

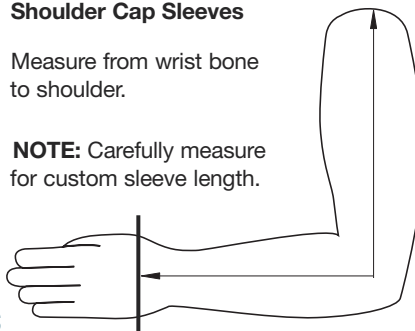
What are Your Ordering Options for Custom Protective Sleeves?

- Custom Sleeve Length
- Extra-Wide Sleeves
- Sleeves Without Grommets
- Reinforced Webbing on Nylon Sleeves
- Extra-Long Alligator Clips
- Hook-and-Loop Closures to Replace Snaps

Measurement Guidelines for Shoulder Cap Sleeves

Measure from wrist bone to shoulder.

NOTE: Carefully measure for custom sleeve length.



Custom Sleeves Without Grommets

CRL Cane Mesh Sleeves

- Cane Nylon for Comfort
- Leather Straps Add Protection



Sleeve Close Up



These Sleeves are made of a single layer of cane mesh, with canvas elbows for toughness. Leather strips running the length of the Sleeve provide further protection. Open weave stitching allows air through the Sleeves keeping you comfortable in warm weather. Sold only in pairs.

NOTE: For replacement elastic straps, order Cat. No. GWSSTRAP

CAT. NO.	LENGTH
CN85029	29" (737 mm)
CN85031	31" (787 mm)

Minimum order: 1 pair. Can be combined with all other Glassworker's Sleeves for quantity pricing.

CRL Oversize Cane Mesh Sleeves

- Extra Width From Top to Bottom
- Fit Easily Over Jackets
- Two Sizes Available

CRL's Oversize Cane Mesh Sleeves are perfect for those cold days because these Sleeves can be easily worn over your sweater or jacket. These Oversize Sleeves have the same features, benefits, and durability of the standard Cane Mesh Sleeve. Custom lengths can also be ordered by following measuring instructions below. Sold only in pairs.

NOTE: For replacement elastic straps, order Cat. No. GWSSTRAP.



Sleeve Close Up



Strap Close Up



CAT. NO.	LENGTH
CN86029	29" (737 mm)
CN86031	31" (787 mm)

Minimum order: 1 pair. Can be combined with all other Glassworker's Sleeves for quantity pricing.

How to Order Custom CRL Cane Mesh Sleeves

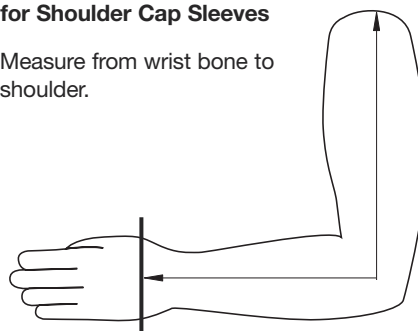
What are Your Ordering Options for Custom Cane Mesh Sleeves?

- Custom Sleeve Length
- Extra-Wide Sleeves in Custom Lengths
- 14" (356 mm) Alligator Clips
- Hook-and-Loop Closures to Replace Snaps

Custom Sleeves can be ordered through our Customer Service Department.

Measurement Guidelines for Shoulder Cap Sleeves

Measure from wrist bone to shoulder.



IMPORTANT NOTE:
After measuring from wrist to shoulder, add 7" (178 mm) to sleeve measurement to order your custom sleeve.

CRL Protective Sleeves



CRL Sleeves offer excellent protection from glass cuts and have the added reinforcement of lightweight. The metal eyelets are evenly spaced to help guard against deep cuts and punctures while offering superior ventilation through the grommets. ANSI Cut Level Rating 2. EN388 Puncture Level 2. Sold only in pairs.



- **Top Notch Fabric With Metal Grommets for Safety**

CAT. NO.	SIZE
S30KV25	25" (635 mm)
S30KV27	27" (686 mm)
S30KV29	29" (737 mm)

Minimum order: 1 pair. Sizes can be combined for quantity pricing.

CRL Blue Denim Protective Sleeves

- **2-Ply Blue Denim Cotton**
- **Protects Shoulders, Elbows, and Arms**



CRL Blue Denim Protective Sleeves provide important protection for your arms and shoulders. Lightweight and flexible, the 24" (609 mm) long Blue Denim Sleeves come with plated, staggered grommets to protect against punctures and provide air circulation. Adjustable shoulder straps are included. For replacement shoulder straps order Cat. No. 2404442. Sold only in pairs. Minimum order is one pair.

CAT. NO. 2404446

CRL Cut Protection Jackets

- **Provides Excellent Cut Protection**
- **Available With or Without Grommets in Body and Sleeves**

CRL Cut Protection Jackets were designed for the safety of the glass worker. Wearing the proper safety gear is required in order to safely carry and install glass. These Jackets are made from 8 oz. Kevbest™ Kevlar®, which is many times more cut-resistant than comparable materials of the same weight. The metal eyelets allow increased air circulation, and the jacket has a zipper in front for easy removal. ANSI Cut Level Rating 2. EN388 Puncture Level 2.



CAT. NO.	GROMMETS	SIZE
C35GKVSM	Yes	Small
C35GKVMD	Yes	Medium
C35GKVLG	Yes	Large
C35GKVXL	Yes	X-Large

Minimum order: 1 each. All Jackets can be combined for quantity pricing.

CAT. NO.	GROMMETS	SIZE
C35KVSM	No	Small
C35KVMD	No	Medium
C35KVLG	No	Large
C35KVXL	No	X-Large

Minimum order: 1 each. All Jackets can be combined for quantity pricing.

How to Order Custom CRL Cut Protection Jackets



Half-Jacket



Eisenhower Style Jacket

What Are My Ordering Options?

- **Reversed Grommets**
- **No Grommets**
- **Half or Eisenhower Style Jackets**
- **Custom-Sized Jacket**

HALF-JACKET			EISENHOWER JACKET	
CHEST MEASUREMENTS	SLEEVE LENGTH	ORDER SIZE	CHEST MEASUREMENT	SLEEVE LENGTH
40" (1016 mm)	27" (686 mm)	Small	48" (1219 mm)	29" (737 mm)
44" (1118 mm)	31" (787 mm)	Medium	50" (1270 mm)	31" (787 mm)
46" (1168 mm)	35" (889 mm)	Large	52" (1321 mm)	33" (838 mm)
50" (1270 mm)	39" (991 mm)	X-Large	54" (1372 mm)	35" (889 mm)

Minimum order: 1 each. *NOTE: Jackets are designed to be worn over clothing. We suggest you take chest measurements while wearing a light jacket or sweatshirt to make sure you will have freedom of movement while wearing the Jacket.

CRL Cut Protection T-Shirt

- **Very Comfortable and Lightweight**
- **Offers Maximum Cut Protection**

CRL's Cut Protection T-Shirt is a very functional and comfortable shirt that your glass handlers and fabricators will look forward to wearing. This well styled shirt is made of COOLMAX® fabric which transports body heat to the outside, while at the same time has a cooling effect. The sleeves have knit wrist material, which offers a maximum cut resistance rating of 5 on the forearms.



CAT. NO.	CHEST SIZE
993096MD	Medium 40"-42" (102-106 cm)
993096LG	Large 44"-46" (112-116 cm)
993096XL	X-Large 48"-50" (122-128 cm)

Minimum order: 1 each.

CRL Cut Protection Poloshirt

- **Maximum Cut and Puncture Resistance**
- **Offers Both Style and Comfort**

CRL's Cut Protection Poloshirt provides all-day comfort and maximum cut resistance for shoulders and arms which are the highest risk areas when cutting and handling glass. Cordura® material reinforcement in the belly area, and the front and back of the Poloshirt are made from COOLMAX® fabric, which cools the wearer. This shirt has a puncture rating of 4 in the belly area and a cut resistance rating of 5 for the arms and shoulders.



CAT. NO.	CHEST SIZE
993898MD	Medium 40"-42" (102-106 cm)
993898LG	Large 44"-46" (112-116 cm)
993898XL	X-Large 48"-50" (122-128 cm)

Minimum order: 1 each.

CRL Cut Protection Jacket

- **Provides Maximum Protection**
- **Well Styled and Comfortable**

CRL's Cut Protection Jacket is ideal for cold weather projects. This great looking Jacket is durable, can be laundered, and provides cut resistance to level 5 for the arms and shoulders and a puncture rating of 3. The exterior design features a snap front and two front flap pockets, while the inside has a comfortable poly-cotton liner.



CAT. NO.	CHEST SIZE
PKJ153MD	Medium 40"-42" (102-106 cm)
PKJ153LG	Large 44"-46" (112-116 cm)
PKJ153XL	X-Large 48"-50" (122-128 cm)

Minimum order: 1 each.

CRL Cut Protection Neck Protector

- **Comfortable**
- **Easy-On, Easy-Off**



CRL's Neck Protector is constructed from knitted material and designed for glass fabricators who regularly carry and handle annealed or tempered glass. The Neck Protector provides a cut resistance rating of 4. Comfortable in all climates, it is designed to be worn all day. The hook-and-loop closure makes the Neck Protector fully adjustable to any neck size. Minimum order is one each.

CAT. NO. 99995

CRL Shin and Foot Protectors

- **A Must Have Item for Anybody in the Glass Industry**

Give your feet and lower legs added protection with CRL Shin and Foot Protectors. They are made of high quality leather and reinforced with a steel frame. The foot guard is a 1/8" (3 mm) piece of rubber attached to the leggings and cut to follow the foot contour. Great for people in a shop or window factory where the constant carrying of plate glass poses a hazard. Minimum order is one pair.



CAT. NO. SFP1234

COOLMAX is a registered trademark of INVISTA North America S.A.R.L.

CRL Nylon Wrist Protectors

- Lightweight and Flexible
- Available in Two Lengths
- ANSI Level 2 Cut Protection



CRL Nylon Wrist Protectors with improved cut resistance help protect you from cuts and abrasions. The nylon mesh provides ventilation, and two hook-and-loop strips make them easy to put on or take off. These are great for general glaziers, window factory workers, or anybody who handles glass stitched and are comfortable to wear. Sold only by the pair.



CAT. NO.	WRIST CIRCUMFERENCE	FOREARM CIRCUMFERENCE	LENGTH
4X2257M	9-1/2" (241 mm)	13-1/2" (343 mm)	7" (178 mm)
4X2257XL	11-1/2" (292 mm)	15-1/2" (394 mm)	7" (178 mm)
4X2259M	9-1/2" (241 mm)	14-1/2" (368 mm)	9" (229 mm)
4X2259XL	11-1/2" (292 mm)	16-1/2" (419 mm)	9" (229 mm)

Minimum order: 1 pair. All Wrist Protectors can be combined for quantity pricing.

CRL Leather Wrist Protectors

- Made of Heavy-Duty Leather
- Zipper On and Off

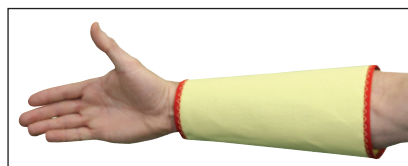


If you carry glass, these Leather Wrist Protectors are a must! Made of heavy-duty leather-bound pigskin, they are also grommeted for protection and ventilation. A strong, steel zipper stitched to the leather makes them easy to remove. Minimum order is one pair.

CAT. NO. 5135

CRL Armor Wristlets

- ANSI Level 4 Cut Protection
- Lightweight and Flexible



- EN388 Puncture Rating: 1

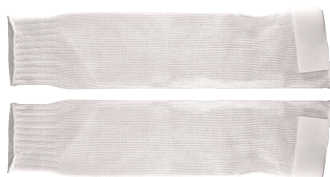
CRL's Armored Wristlets provide superior cut protection for the wrist and forearm. They have single layer construction which means they are lightweight and flexible, and do not restrict arm or hand motion while providing twice the cut protection of similar products. They are made from a single layer of material and secured with durable hook-and-loop closers. Sold by the pair.

CAT. NO.	LENGTH
S01K27	7" (178 mm)
S01K29	9" (229 mm)

Minimum order: 1 pair. All Wrist Protectors can be combined for quantity pricing.

CRL D-Flex® Cut Resistant Sleeves

- ANSI Level 5 Cut Protection



CRL D-Flex® Cut Resistant Sleeves are 21" (533 mm) long, with a hook-and-loop fastener on top to adjust to any arm size. These heavy-weight D-Flex® Cut Resistant Sleeves can be laundered and bleached without losing their protective qualities. Sold only by the pair. Minimum order is one pair.

CAT. NO. 9275

D-Flex is a registered trademark of Showa Glove Company.

CRL Black Nylon Wrist Guards

- Lightweight and Flexible



Available Only in Australia

CRL Black Nylon Wrist Guards help protect you from cuts and abrasions. These lightweight nylon mesh sleeves provide ventilation, and have two hook-and-loop strips making them easy to put on or take off. Sold only by the pair.



CAT. NO.	SIZE
WGV	Large
WGVXXL	XX Large

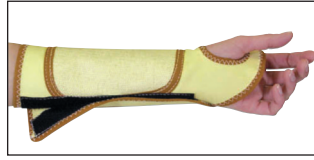
Minimum order: 1 pair.

CRL Wristlets With Thumbhole

- One Size Fits All



Nylon Mesh Wristlet



Wristlet

CRL's Nylon Mesh Wristlets are designed with a thumbhole which keeps the Wristlet in place and allows for a comfortable fit. The Wristlets are 9-1/2" (241 mm) in length, and provide added protection for your wrist and palm. They can also be adjusted to fit any arm. They offer excellent protection against cuts and abrasions from sharp edges.

CAT. NO.	CUT PROTECTION	MATERIAL
S04MP08	Cut Level 2	Nylon Mesh
S04KX018	Cut Level 4	Wristlet

Minimum order: 1 pair.

CRL Waist Apron

- ANSI Cut Level 2
- Protects From Waist to Knee

CRL's Waist Apron is made from lightweight twill, and provides excellent cut protection from waist to knee area. Leather tie straps permit easy adjustment and long-wearing comfort. Apron measures 20" (508 mm) wide and 24" (610 mm) in length. Minimum order is one each.



CAT. NO. A01KV2024

CRL Leather Wrist Guards With Cane Inserts

- Made of Heavy-Duty Leather
- Hook and Loop Adjustment Fits All



Available Only in Australia

These CRL Leather Wrist Guards have reinforced cane inserts to help protect tendons in the wrist. Convenient Hook and Loop adjustment fits all. Sold by the pair. Minimum order is one pair.

CAT. NO. S00754

CRL Wrist and Thumb Joint Protector

- Comfortable and Lightweight
- Easy to Put On and Take Off
- Provides Protection Against Possible Injury



CRL's 9" (228 mm) long leather Wrist and Thumb Joint Protector is perfect for glaziers or anyone who handles or fabricates glass. A full length hook-and-loop closer provides a secure and snug fit around the forearm. It does not restrict wrist or arm movement. Sold only by the pair. Minimum order is one pair.

CAT. NO.	SIZE
2404420	Small
2404421	Large

Minimum order: 1 pair. Sizes can be combined for quantity pricing.

CRL Protective Leg Chaps

- Fits Waist Sizes Up to 46" (1168 mm)

These Protective Leg Chaps guard against cuts and abrasions from glass and sheet metal. Made from 22 oz. material at the waist and 8 oz and over the legs for maximum protection and flexibility while working. Hook-and-loop closures hold the chaps to your ankles for a sure fit. Material is lighter than leather while offering the same level of protection. Sold only in pairs.



CAT. NO.	LENGTH
L49TC34	34" (864 mm)
L49TC36	36" (914 mm)
L49TC38	38" (965 mm)

Minimum order: 1 pair. Sizes can be combined for quantity pricing.

CRL Leather Aprons

- Heavy-Duty Leather
- Maximum Protection



ACL1



ACL2



Available Only in Australia

CAT. NO.	DESCRIPTION
ACL1	24" x 24" (610 x 610 mm) Waist Apron
ACL2	36" x 24" (914 x 610 mm) Bib Style Apron

Minimum order: 1 each.

CRL Radians® Vector™ Safety Glasses

- Great Protection
- Classic Style



CAT. NO. CL0210
Clear Lens



CRL Radians® Vector™ Safety Glasses feature a 100% polycarbonate lens that meets the ANSI Z87.1-1989 Standard, and is distortion-free with fog and scratch resistance built in. The adjustable temple and full 155 degree width provide increased protection. Minimum order is one pair.

CRL Radians® AV™ Safety Glasses

- 99 Percent UV Protection
- Anti-Scratch Coating



CAT. NO. JP2000



CAT. NO. AV1110

CRL Radians® AV™ Safety Glasses employ the best in eye and ear protection that meets or exceeds ANSI Standards. The lens has a hard anti-scratch coating and is 99% UV protected. They also resist fogging in all types of weather and working conditions. Each pair comes with a neck cord to hold them while not in use. JP2000 Ear Protectors are reusable, washable, and conveniently replaceable. Made in the U.S.A. Minimum order is one pair.

CRL Radians® Rad-Apocalypse™ Safety Glasses

- Available in Three Lens Colors
- Great Style



CAT. NO.	LENS COLOR
RAP1C	Clear
RAP1S	Smoke
RAP10	Indoor/Outdoor

Minimum order: 1 pair.

CRL's Radians® Rad-Apocalypse™ Safety Glasses not only provide excellent eye protection, but have great style. Features include soft rubber temples and a nosepiece which allows all-day comfort, coated scratch-resistant lenses, and a convenient neck cord. The polycarbonate lenses meet the ANSI Z87.1 rating and have 99.9 percent UV protection.

CRL Radians® Rad-Infinity™ Safety Glasses

- Excellent Features
- Superior Protection



CAT. NO.	LENS COLOR
R1N1C	Clear
R1N1S	Smoke
R1N10	Indoor/Outdoor

Minimum order: 1 pair.

CRL's Radians® Rad-Infinity™ Safety Glasses are uniquely styled and offer superior eye protection. They are available in clear, smoke, and indoor/outdoor lenses. Rad-Infinity™ Glasses have cushioned rubber temple pads which provide outstanding comfort, a gel non-slip nosepiece, coated scratch-resistant lenses, and a neck cord for convenient on/off situations. The lenses conform to ANSI Z87.1 standards and provide 99.9 percent UV protection.

CRL Radians® Rad-Sequel™ Safety Glasses

- Meets ANSI Z87.1 Standards
- Comfortable Fit



CAT. NO.	LENS COLOR
RDS1C	Clear
RDS1S	Smoke
RDS10	Indoor/Outdoor

Minimum order: 1 pair.

CRL's Radians® Rad-Sequel™ Series Safety Glasses provide wrap-around eye protection in a lightweight design. Choose either clear, smoke or indoor/outdoor polycarbonate, impact-resistant lenses. The rubber tipped temples offer a secure, comfortable fit. The hard coated lenses are also 99.9 percent UV effective.

CRL Radians® Mirage™ Safety Glasses

- Made in USA
- Sleek, Lightweight Design



CAT. NO.	LENS COLOR
MR01C	Clear
MR01S	Smoke
MR010	Indoor/Outdoor

Minimum order: 1 pair.

CRL's Radians® Mirage™ Series Safety Glasses offer a comfortable fit for both men and women. The snap-fit temples provide a secure fit and the optically correct lenses give distortion-free viewing. The wrap-around lens design provides impact resistance and a nearly perfect orbital seal. They are ANSI approved, 99.9 percent UV effective, and available in clear, smoke and indoor/outdoor lenses.

All Safety Glasses on this page can be combined for quantity pricing.
Radians is a registered trademark of Radians, Inc.

CRL Patriot® Safety Eyewear

- Red, White, and Blue Frame
- Integrated Side Guards



CRL Patriot® Safety Eyewear provides wrap-around protection in an attractive, lightweight, colorful frame with adjustable temples. The single-lens style with nosepiece and brow guard provides a comfortable fit and also meets ANSI Z87.1 Spec. The clear, hard coated lenses are scratch resistant. Minimum order is one pair.

CAT. NO. 2404443

CRL Deluxe Safety Spectacles

new

- Wrap-Around Eye Protection
- Can Be Worn Over Eyeglasses



CRL's New Clear Deluxe Safety Glasses are perfect for both visitors to your facility or employees. The wrap-around polycarbonate lenses are impact resistant and provide ultimate protection. These stylish glasses have telescoping temples for a customized and comfortable fit. Certified to ANSI Z87.1 Standards and provides 99.9% UVA/UVB protection. Minimum order is one Pair.

CAT. NO. SH610

CRL Radians® Coveralls™ Safety Glasses

- Safety and Comfort
- Can Be Worn Over Eyeglasses



Traditionally styled Radians® Coveralls™ give you protection at an economic price. They can be worn over prescription glasses. They're an excellent choice for use as "visitor" glasses. Minimum order is one pair.

CAT. NO. VS0010

CRL Lightweight Visitor Spectacles

- Wrap-Around Shields
- Distortion-Free Lens



Extremely comfortable CRL Lightweight Spectacles can be worn with or without prescription glasses. They feature wrap-around side shields, and an anti-glare brow guard. The distortion-free clear lenses are .080" (2 mm) thick for added protection. Minimum order is one pair.

CAT. NO. ES461

CRL Protective Goggles

- Soft Vinyl Frame
- Distortion Free Lens



CRL Protective Goggles offer comfort as well as protection against flying particles, dust and splash. Injection molded from soft, pliable, non-irritating vinyl, these Goggles fit all sizes and shapes. They even fit comfortably over large prescription glasses. They have a soft vinyl frame with perforations for maximum ventilation. They also feature a high-optical quality, distortion-free, replaceable polycarbonate lens. Minimum order is one pair.

CAT. NO. ES432

CRL UV Goggles

- Provides Maximum Protection From Exposure to Extended or High-Intensity Ultraviolet Sources



CRL UV Goggles protect the user against most ultraviolet light sources. These Goggles specifically provide maximum protection from exposure to extended or high-intensity UV sources. Meet ANSI specification Z87.1 for safety eye-wear and OSHA standard 1910.133 for eye and face protection. They fit easily over regular eyeglasses. Minimum order is one each.

CAT. NO. UVG50

CRL UV-Absorbing Spectacles

- Protects Against UV Exposure
- Fits Easily Over Regular Eyeglasses



These CRL UV-Absorbing Spectacles are specially designed to protect the user against limited exposure to low intensity UV sources. Attractive and durable, these well proportioned frames fit easily over conventional eyeglasses. Minimum order is one each.

CAT. NO. UVS30

Patriot is a registered trademark of Sperian Eye & Face Protection, Inc.
Radians is a registered trademark of Radians, Inc.

CRL Disposable Foam Ear Plugs

- Economical Ear Protection
- One Size Fits All



These popular low density CRL Foam Ear Plugs are easy to use. Simply roll them in your hand to reduce their diameter, insert them in your ears and they will expand to stay secure and provide ear protection. Permits conversational noise levels while providing comfortable and economical ear protection. 200 wrapped pairs per box. Minimum order is one box.

CAT. NO. ES986

CRL Hard Hat Hearing Protectors

- Fits All Slotted Hard Hats
- NRR Rated at 26



CRL's Hard Hat Mounted Ear Protectors have adjustable head bands with side wire guides which adjust for the best fit. The soft, foam padded ear cups fit securely and comfortably over the ear. These Ear Protectors will fit virtually all slotted hard hats, and are rated at NRR 26. Minimum order is one pair.

CAT. NO. CMT26

CRL Eliminator 29 Hearing Protectors

- Designed to Equalize Pressure
- Lightweight Earcups



CRL's Eliminator 29 Hearing Protectors have a flexible headband which allows for the earcups to automatically adjust to the shape of your head. The headband is also designed to equalize pressure, which provides an even seal for better protection. The earcups are lightweight for all day comfort, and will flip outward for an easy comfortable fit when hanging around your neck. Minimum order is one each.

CAT. NO. EL29

CRL Band Mount Hearing Protectors

- Swivel Ear Cup Construction
- For Low-Noise Environments



This CRL Band Mount Hearing Protector is rugged, comfortable, and lightweight. It gives excellent protection against noise pollution. It effectively seals the ear with minimum pressure, permitting conversational speech and warning signals to be heard. The ear cushions are ultra-soft for comfort and extended wear. Minimum order is one each.

CAT. NO. ES515

CRL Ear Plugs

- Soft, Pliable, and Reusable
- Includes Neck Cord

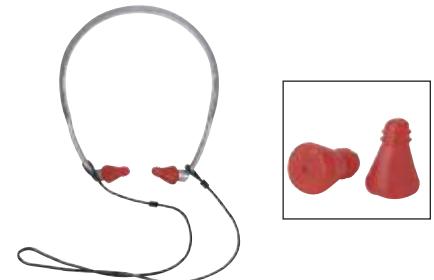


CRL Ear Plugs are soft and pliable for a comfortable, non-irritating fit. They permit hearing at a normal conversational level, yet provide effective protection against noise pollution, and are resistant to ear wax and soil. They are easily washed with mild soap and warm water, will not deteriorate or harden, and are attached to a plastic neck cord. 10 sets per pack. Minimum order is one pack.

CAT. NO. 67221

CRL Radband Ear Protectors

- Lightweight and Comfortable
- Reusable



CRL's Radband Ear Protectors provide effective hearing protection when needed, and can easily be worn around the neck when not in use. Rated at NRR 23, these Ear Protectors are super soft and made from FDA approved non-toxic material. The Radband is designed to align the ear protectors with the ear canal for maximum comfort and sound protection. The Radband is reusable since the ear plugs are washable. The head band is lightweight and durable. Minimum order is one each.

CAT. NO. RB1100

CRL Dual Cartridge Organic Vapor Respirator

- **Protects Against Dust, Tiny Particles, and Fumes**



Requires Two Cartridges

This CRL Dual Cartridge Respirator comes with NIOSH approved Cartridges for organic vapors. Common applications include degreasing, adhesive use, working with other airborne contaminants. The elastomeric face piece is soft on the face. Low breathing resistance lessens fatigue, resulting in higher productivity. Protection is also offered against highly toxic dusts, including asbestos, mists, and fumes.

CAT. NO.	DESCRIPTION
ES285X MD8100	Respirator and Cartridges Replacement Cartridges (Pair)

Minimum order: Respirator is 1 each. Cartridges are 1 pair. Respirators can be combined for quantity pricing.

CRL Glass Dust Respirator

- **Soft, Durable Face Piece Designed for Safety and Comfort**



Requires Two Filters

The CRL Glass Dust Respirator comes complete with Filter Disks certified under NIOSH 42 CFR 84 to have a filter efficiency of 99.97% or greater against oil, non-oil aerosols, and silica (glass) dust. It also conforms to requirements for contaminants falling under OSHA substance specific standards of High Efficiency Particulate Air (HEPA) Filters.

CAT. NO.	DESCRIPTION
ES287X MD8940	Respirator and Filter Disks Replacement Filter Disks (Pair)

Minimum order: Respirator is 1 each. Filter Disks are 1 pair. Respirators can be combined for quantity pricing.

CRL Disposable Dust Mask

- **Ideal Protection Against Dust When Sanding, Grinding and Cutting**



NOTE: This mask is not suitable for use against toxic or hazardous air contaminants.

These CRL Disposable Dust Masks protect against nuisance and non-toxic dusts, powders, pollen, and other common airborne irritants. Comfortable and lightweight, they are designed to be worn with or without eyeglasses or goggles without interfering with your maximum field of vision.

CAT. NO.	QTY/BOX
G1001	50

Minimum order: 1 box. All Dust Masks can be combined for quantity pricing.

CRL Dust and Mist Respirator

- **NIOSH/MSHA Approved for Dust and Mists With PEL**
- **Meets OSHA Up to 10X PEL**



For excellent balance of performance and cost, choose the CRL Dust/Mist Respirator, the first maintenance-free respirator to be approved. The ES8710 is used throughout general industry in a wide variety of applications. Protects against coal, cadmium, chromium, lead, cotton, dust, silica, and other substances. NIOSH/OSHA approved for dusts and mists with PEL not less than 0.05 mg/m³. Meets OSHA Standards for use up to 10X PEL.

CAT. NO.	QTY/BOX
ES8710	20

Minimum order: 1 box. All Dust Masks can be combined for quantity pricing.

CRL Particulate Respirator

- **Perfect for Glass Fabricators**

CRL's Particulate Respirator is ideal for anyone in the glass industry who cuts, seams, drills or edges glass. This is the perfect Respirator to filter out glass dust particles in the air caused by any glass fabrication process. The Particulate Respirator is designed with inner foam which provides a custom seal, and a dual head strap for optimum fit. NIOSH approved.



CAT. NO.	QTY/BOX
G1002	20

Minimum order: 1 box. All Dust Masks can be combined for quantity pricing.

CRL Valved Particulate Respirator

- **Valve Permits Easy Respiration**

CRL's Valved Particulate Respirator has the same features and benefits as our Cat. No. G1002 Particulate Respirator, except it permits the person wearing the mask to exhale comfortably through a valve which automatically closes after exhalation. NIOSH approved.



CAT. NO.	QTY/BOX
G1003	10

Minimum order: 1 box. All Dust Masks can be combined for quantity pricing.

CRL Face Shields

- Adjustable for All Head Sizes
- Available Models- Standard or UV Absorbing

Our all plastic CRL Face Shields have extra-wide windows which offer protection and comfort. Designed for protection from flying particles during woodworking, metal finishing, and exposure to ultraviolet light. Adjustable for all head sizes.



CAT. NO.	DESCRIPTION
ES484	Standard Shield
UVF80	UV-Absorbing Shield

Minimum order: 1 each.

CRL Safety Hard Hat

- Complies With OSHA Requirements ANSI Z89.1-1986 Class A and B

These CRL Safety Hard Hats are made from an improved, injection-molded, high-density polyethylene that offers superior protection against impact, penetration, and shock. It has good resistance to chemicals and voltage, yet it weighs less than 12 ounces (340 gm), making it comfortable to wear. The four point integral suspension has a head gripping, extra-contoured nape strap for a better fit.



CAT. NO.	COLOR
ES3412	Red
ES3442	White
ES3452	Yellow
ES3492	Blue

Minimum order: 1 each.

CRL Ratchet Suspension Hard Hat

CRL's Ratchet Suspension Hard Hat is made of lightweight polyethylene with impact absorbing ridges. These very comfortable Hats meet ANSI Z89.12003 Standard, Type 1, Class G & E. The innovative ratchet nylon suspension allows the wearer to easily adjust the fit of the Hat while it is being worn by simply turning the rear knob. The soft brow band is washable and reusable, and the universal slots will accommodate most cap mounted ear muffs.



- Fit Can Be Adjusted While Wearing Hat

CAT. NO.	COLOR
HH300W	White
HH300Y	Yellow
HH300B	Blue

Minimum order: 1 each.

CRL Hard Hat Head Lamp

- Waterproof for Use in Inclement Weather
- Lightweight, With Swivel Lens

This CRL Hard Hat Head Lamp is a multi-purpose battery-powered lamp for use on Hard Hats or worn on the forehead. This hands-free lamp gives you an extended viewing range with a swivel lens that focuses light up to 90 degrees to either side. Easy on/off button. Uses AA batteries, which are included. Minimum order is one each.



Shown with Hard Hat (Sold Separately)

CAT. NO. ES015

CRL Hard Hat Chin Strap

- Adjustable - One Size Fits All



Shown with Hard Hat (Sold Separately)

This CRL Chin Strap has an adjustable elastic web which clips onto your hard hat, wrapping under your chin and keeping the hat snug on your head. One size fits all. Minimum order is one each.

CAT. NO. ES003

CRL Hard Hat Winter Liner

- Add Warmth to Your Safety Cap
- Soft Non-Irritating Fabric

This CRL Winter Liner makes hard hats warm and comfortable to wear during the coldest weather. They are made of pre-shrunk and washable cotton, and help keep head, neck, and ears warm in frigid temperatures. Minimum order is one each.



CAT. NO. ES524

CRL Elastic Back Support Belt

- Hook-and-Loop Quick Fit
- Adjusts for Comfort
- Breathable Material
- Four Sizes



Our Elastic Back Support Belt was professionally designed to reduce the possibility of back stress and injury, while encouraging proper body mechanics. Adjustable suspenders, plus hook-and-loop waist closure make it flexible and comfortable for extended wear. Breathable material keeps you cool.

CAT. NO.	WAIST SIZE
5900SB	Small 28" to 32" (711 to 813 mm)
5900MB	Medium 32" to 38" (813 to 965 mm)
5900LB	Large 38" to 46" (965 to 1168 mm)
5900XLB	X-Large 46" to 56" (1168 to 1422 mm)

Minimum order: 1 each.

CRL Mesh Back Support Belt

- Available in Four Sizes
- Fabricated to Provide Maximum Support and Comfort



CRL's new Mesh Back Support Belt is 8" (203 mm) wide and fabricated from breathable Lycra. The black back support has a spandex power net back panel and four internal stays to keep the belt from rolling. The double 4" (102 mm) wide elastic side panels are adjustable for a custom fit. The adjustable suspenders are made from 1-1/2" (38 mm) comfortable woven elastic. Tapered front panels provide comfort while bending.

CAT. NO.	WAIST SIZE
5300SB	Small 26" to 33" (660 to 838 mm)
5300MB	Medium 32" to 38" (813 to 965 mm)
5300LB	Large 37" to 43" (940 to 1092 mm)
5300XLB	X-Large 41" to 49" (1041 to 1245 mm)

Minimum order: 1 each.

CRL Weight Belt Back Support

- Lightweight Yet Strong
- Sturdy Metal Buckle
- Four Sizes



Our 5" (127 mm) wide Weight Belt offers back support when doing heavy lifting. This lightweight black fiber-filled belt has a neoprene back support to provide additional comfort. More colors and sizes are available on special order.

CAT. NO.	WAIST SIZE
WBS2834	Small 28" to 34" (711 to 864 mm)
WBM3438	Medium 34" to 38" (864 to 965 mm)
WBL3842	Large 38" to 42" (965 to 1067 mm)
WBXL4246	X-Large 42" to 46" (1067 to 1168 mm)

Minimum order: 1 each.

CRL Dual-Flex Wrist Support

- Can Be Worn on Either Hand
- Four Sizes



CRL Dual-Flex Wrist Supports have a high-grade ribbed support. These Wrist Supports have a lightweight design with strategically placed stays that restrict harmful flexing and extension. Available in four different sizes, the black Dual-Flex Wrist Supports may be worn on either hand, and are machine washable.



CAT. NO.	SIZE
EHD1S	Small
EHD1M	Medium
EHD1L	Large
EHD1XL	X-Large

Minimum order: 1 each.

CRL Full-Body Modular Safety Harness

- **Certified and Compliant With ANSI, CSA, and OSHA Requirements**
- **For Fall Arrest, Positioning, and Retrieval**

This CRL Full-Body Modular Safety Harness is designed to arrest free falls and distribute impact forces as required by OSHA. The straps provide extra comfort during normal use as well as support before, during and after a fall. It is equipped with one adjustable, forged, circle D-ring with roller at the back for attaching a fall-arrest connecting device. Made of tough 1-3/4" (44 mm) nylon webbing. Shoulder straps have friction slide adjusters for optimum fit. It is also equipped with adjustable parachute-type D-rings for quick retrieval purposes. Minimum order is one each.



CAT. NO. 5481

CRL Adjustable Lanyard

- **Quick Action Snap Hooks at Both Ends**
- **Adjustable Length From 78" to 120"**
- **Resin-Impregnated Nylon Webbing for Great Durability**



This CRL Adjustable Lanyard is made of 1" (25 mm) wide orange nylon webbing that has been resin-impregnated for greater durability. The Lanyard has drop-forged snap hooks at each end for quick action and strength. It can be adjusted in length from 78" to 120" (2 to 3 m). Ideal for linemen, iron workers, and high-rise construction workers. Minimum order is one each.

CAT. NO. 5492W10

CRL Fall Protection Harness Kit

- **One Size Fits All 5-Point Harness**
- **Designed for Fall Arrest and Retrieval**



CRL's Fall Protection Harness Kit contains all the essential elements needed for fall protection: one 5-point harness, one D-ring, one 72" (1829 mm) energy absorbing web lanyard with snaphooks installed at each end, and one convenient carry bag. These affordable Kits are ideal for the contract glazier to keep packed away until needed for those special projects where fall protection is required. Minimum order is one each.

CAT. NO. E05501

CRL Fall Protection Harness

- **One Size Fits All 5-Point Harness**
- **Installed Sliding D-Ring**
- **Made of Polyester**

CRL's 5-point Fall Protection Harness conforms to OSHA requirements for fall arresting equipment. Made of polyester, the Harness has a sliding steel D-ring installed in the center of the back and parachute buckles mating chest and leg straps. The one size fits all Harness adjusts from small thru x-large. If you have glazing projects for multi-level buildings, your crew is required to wear fall protection equipment. Minimum order is one each.



CAT. NO. E48103

CRL Gel Knee Pads

- Gel Provides Maximum Cushioning for All-Day Wear
- One Size Fits All

CRL's Gel Knee Pads have a gel center which provides maximum cushioning for all-day wear. The soft, flexible rubber outer shell protects and grips most surfaces without scratching, scuffing or skidding. The durable rubber straps offer added stability, and the ultra-flex construction is designed for increased comfort and protection. Minimum order is one pair.



CAT. NO. G361

CRL Pro Pads™ Knee Pads

- Provide Protection and Comfort While Kneeling
- One Size Fits All

These CRL Pro Pads™ give support while kneeling, and protection against bumps and scrapes. Stitched-on caps are stronger than rivet-on style, and will not collect debris under the caps. Medical grade, tight weave elastic straps hold comfortably without binding, and give excellent service longevity. Minimum order is one pair.



CAT. NO. PP91012

CRL Heavy-Duty Knee Pads

- Slip-Buckle Fastening System With Adjustable Straps



CRL's Heavy-Duty Knee Pads have a dual layer of ballistic poly fabric and a textured PVC outer shell which provides extra durability. The high density, closed-cell foam padding helps reduce pressure on the kneecap for added comfort, and the neoprene inner fabric keeps the knees comfortable throughout the day. Minimum order is one pair.

CAT. NO. DG5224

CRL Professional Knee Pads With Layered Gel

- Provides All-Day Comfort
- One Size Fits All



CRL's Professional Knee Pads are designed with a special layered gel technology over thick, closed-cell foam padding which surrounds the knee for ultimate comfort. The heavy-duty cap provides added stability, and the convenient upper tab allows for easy repositioning. These Knee Pads have a durable, ballistic poly-outer fabric for wear and a neoprene inner fabric for all day comfort. Minimum order is one pair.

CAT. NO. DG5204

CRL Armadillo Knee Pads

- Flexible Air Cushion for Added Protection
- One Size Fits All



CRL's Armadillo Knee Pads have a full-size cap design engineered with air cushion chambers that provide stability and protection over the roughest surfaces. The tough poly-nylon shell has a cushioned neoprene liner for comfort and durability. The nylon web and elastic straps allow for easy adjustment and a secure fit for all-day wear. Minimum order is one pair.

CAT. NO. 347

CRL Leather Knee Pads

- Top-Grain Leather Exterior
- Rivet Reinforced



These CRL Leather Knee Pads are made from top-grain leather. The inner liner is water resistant felt. This Knee Pad is rivet-reinforced, and has a single 3/4" (19 mm) wide leather strap with plated metal buckles. Minimum order is one pair.

CAT. NO. MN309

CRL Cargo Handler's Chaps

- Split Leg Heavy-Duty Sueded Leather



These CRL Cargo Handler's Chaps are popular with material and glass handlers because of the heavy-duty leather front straps on each leg that keep them in place, affording protection from waist to mid-shin. The Chaps feature an adjustable all-leather belt with buckle, reinforced crotch area, and leg straps with snap rings. Minimum order is one each.

CAT. NO. MN431

CRL Two-Pocket Split Leg Apron

- Reinforced Thigh and Lap Area



This CRL Two-Pocket Split Leg Apron offers a rugged leather front and below-the-knee protection for tough loading and material handling jobs. It is made of 10 oz. green, 100% cotton canvas with reinforced split leather legs and belly area. Exclusive interlocking crotch construction prevents "gapping". Other features include double stitched pockets, criss-cross shoulder straps, and leather leg straps. Minimum order is one each.

CAT. NO. MND93

CRL Protective Leather Apron

- Heavy Leather Apron With a Hook/Clasp Buckle and Web Belt



This CRL Protective Leather Apron is a heavy 22" x 24" (559 x 610 mm) tan waist apron with a hook/clasp-style buckle webbed belt. Minimum order is one each.

CAT. NO. TG340

CRL Baler Style Protective Leather Apron

- Measures 24" Wide x 18" Long (609 x 457 mm)
- Protects Below Waist and Above Knees



CRL's full cut Baler Style Protective Leather Apron is widely used by the glazing, construction, and packaging industries. It gives surface protection to the areas below the waist and above the knees. Not only does it protect the body, but it also protects work clothes from tears and stains. Minimum order is one each.

CAT. NO. 2404432

CRL 5-Pocket Machinist Apron

- **Double Stitched Blue**
- **100% Cotton Canvas**

This CRL 5-Pocket Machinist Apron was designed with the machinist's needs in mind, but we found it perfect for the shop glazier. Made of heavy weight, eight ounce blue 100% cotton canvas with double stitching on all pockets and stress points. The Apron has two large waist pockets, two bib pencil pockets, and swing pockets for your glass cutter or running pliers. Minimum order is one each.



CAT. NO. MNT27

CRL Plastic Apron

- **Full Splash Protection**



This tough 44" (1117 mm) long CRL Vinyl Apron provides splash protection at an affordable price. Cotton shoulder straps tie to reinforced grommets to prevent rip-out. Comfortable, lightweight, and washable in cold water. Minimum order is one each.



CAT. NO. 2235

CRL Cargo Handlers Apron

- **Heavy-Duty Suede Leather**
- **No Split Leg Design**

This tough, full coverage CRL Cargo Handlers Apron is designed for maximum protection and comfort. Made of heavy-duty light gray suede leather, with bib styling, and steel staple reinforcement for long life. Minimum order is one each.



CAT. NO. MN433

CRL Truckers 4-Pocket Apron

- **Green Heavy-Duty**
- **100% Cotton Canvas**
- **Lightweight and Comfortable**

This heavy-duty 10 oz. (283 g) green 100% cotton CRL Truckers 4-Pocket Apron has two large waist pockets plus pencil and pad bib pockets. It features extra reinforcement at stress points. It has two harness and leg straps. Interlocking crotch construction prevents apron legs from "gapping" open in center. Minimum order is one each.



CAT. NO. MNM71

CRL 14-Pocket Bib Apron

- **Room for Small Tools and Fasteners**
- **Functional Design**
- **Tough Construction**

This professional quality CRL 14-Pocket Bib Apron with highly functional design features a 14-pocket, double tier design; left and right hammer loop; rivet reinforcement; and strong 8 oz. (227 g) cotton canvas construction. Minimum order is one each.



CAT. NO. MNC7

CRL 5-Pocket Waist Apron

- **Strong Eight Ounce Cotton Canvas Construction**
- **Machine Washable**



This CRL 5-Pocket Waist Apron is a basic waist apron for nails and small tools. Rivet reinforced at stress points for strength and long wear. The 8 oz. (227 g) cotton canvas material is machine washable. Has a polypropylene hammer loop on right side. Minimum order is one each.



CAT. NO. MNC12

CRL Rubber Apron

- Full Splash Protection
- 44" (1118 mm) Long



This full-length, rubberized nylon, CRL Rubber Apron with welded seams and grommets for cotton shoulder straps offers full splash protection, while being comfortable to wear. It is even washable in cold water. Minimum order is one each.

CAT. NO. 114

CRL Neoprene Apron

- Lightweight Protection
- 45" (1143 mm) Long



CRL's bright Yellow Neoprene Apron has a nylon base fabric. This lightweight Apron is comfortable to wear with a convenient neck strap and ties in back. It is ideal for protecting clothing during wet fabrication operations. Minimum order is one each.

CAT. NO. 2404290

CRL Fabricators Apron

- Extra Long and Wide
- Stretchable Waist Belt



CRL's Fabricators Apron is both light and durable. It is 48" (1291 mm) long and 33" (838 mm) wide. Made of extra-tough Cordura, the blue and black Apron has a stretchable waist belt with buckle. Wear the apron with CRL's Cat. No. 2404287 Fabricators Sleeves for maximum protection. Minimum order is one each.

CAT. NO. 2404289

CRL Fabricators Sleeves

- Soft Wrist Seal
- Wear Over Sweatshirt or Jacket



CRL's Fabricators Sleeves are the solution for splash protection when wet polishing or working with water fed tools. The 18" (457 mm) long black sleeves can be comfortably worn over a sweater or jacket during cool weather since they provide extra warmth and are waterproof. Minimum order is one pair.

CAT. NO. 2404287

CRL Nylon Rain Suit

- Cut to Fit Over Clothing
- Reflective Material on Arms and Legs

CRL's Nylon Rain Suit includes a storm jacket with zippered closure, pants with an elastic waist, and a detachable hood. The black suit with yellow reflective stripes is made from lightweight, durable .18 mm thick 190T nylon with a PVC backing. The suit has an internal back mesh for breathability, and the pants come with a convenient, durable drawstring.

CAT. NO.	SIZE
R103M	Medium
R103L	Large
R103XL	X-Large

Minimum order: 1 each. Other sizes available on special order.



CRL Rain Boots

- Keep Feet Dry in Wet Weather Projects
- Fabric Lined for Comfort

Wear CRL's Rain Boots along with our Rain Suit for total protection in wet, stormy weather. The black rubber knee high Rain Boots are designed to be worn over-the-sock and are fabric lined for all day wear. The bar tread outsole provides maximum traction in wet weather conditions.



CAT. NO.	SIZE
R23009	9
R23010	10
R23012	12

Minimum order: 1 pair. Other sizes available on special order.

CRL 10 Person First Aid Kit

• Meets ANSI Standard Z308.1.2009

Carry this Compact First Aid Kit to the job site, in your truck or keep one in your shop. It will come in handy anywhere you need First Aid in a hurry. The Kit can also be attached to any wall for convenient access. The 10 Person Kit contains all the basic supplies, and meets and exceeds ANSI Standard Z308.1.2009.

KIT CONTAINS:

Bandage Assortment

Certi-Strip Plastic, 1" x 3"
Certi-Gauze Pad, 3" x 3"
Gauze Non-Stick Pad, 2" x 3"
Triangular Bandage, 40"
Certi-Strip, Fingertip
Certi-Strip, Knuckle

First Aid Assortment

BZK Towelettes, 5" x 7"
Certi-Burn Cream, 1 gm.
Certi-Antibiotic Cream, 1 gm.
Ammonia Inhalant
PVP Iodine Wipe-Ups, 1" x 2"
Absorbent Compress, 32 sq. in.
Nitrile Gloves, 1 pr.
Adhesive Certi-Tape, 1/2" x 2-1/2 yd.
First Aid Facts Sheet



CAT. NO. K61027

CRL 25 Person First Aid Kit

• Meets ANSI Standard Z308.1.2009

This is an ideal First Aid Kit for a small shop environment. The 25 Person Kit should be kept where it is quickly and easily accessible to all shop employees. The Kit can also be attached to any wall for convenient access. This Kit services up to 25 people, and meets and exceeds ANSI Standard Z308.1.2009.

KIT CONTAINS:

Bandage Assortment

Certi-Strip Plastic, 1" x 3"
Certi-Gauze Pad, 3" x 3"
Gauze Non-Stick Pad, 2" x 3"
Triangular Bandage, 40"
Certi-Strip, Fingertip
Certi-Strip, Knuckle

First Aid Assortment

BZK Towelettes, 5" x 7"
Certi-Burn Cream, 1 gm.
Certi-Antibiotic Cream, 1 gm.
Ammonia Inhalant
PVP Iodine Wipe-Ups, 1" x 2"
Absorbent Compress, 32 sq. in.
Alcohol Gel, 1 gm.
Eye Wash, 4 oz.
Certi-Cool Pack
Nitrile Gloves, 1 pr.
Adhesive Certi-Tape, 1/2" x 2-1/2 yd.
First Aid Facts Sheet



CAT. NO. K61029

CRL 50 Person First Aid Kit

• Meets ANSI Standard Z308.1.2009

The CRL Large Shop First Aid Kit is designed for a business that has 25 to 50 employees. This Kit, along with the 10 Person and 25 Person Kits, are neatly organized with all products easily identified. The Kit can also be attached to any wall for convenient access. This Kit meets and exceeds ANSI Standard Z308.1.2009.

KIT CONTAINS:

Bandage Assortment

Certi-Strip Plastic, 75 pc Assort.
Certi-Gauze Pad, 3" x 3"
Gauze Non-Stick Pad, 2" x 3"
Certi-Gauze Roll, 2" x 6 yd.
Elastic Bandage, Ace Style 2"
Triangular Bandage, 40"
Trauma Pad, 5" x 9"
Eye Pads

First Aid Assortment

BZK Antiseptic Towelettes, 5" x 7"
Alcohol Gel, 1 gm.
Certi-Burn Cream, 1 gm.
Certi-Antibiotic Cream, 1 gm.
PVP Iodine Wipe-Ups, 1" x 2"
Absorbent Compress, 32 sq. in.
Ammonia Inhalant
Eye Wash, 4 oz.
Certi-Cool Pack
Nitrile Gloves, 1 pr.



Bandage Scissors, 4"
Forceps, Plastic, 4"
Adhesive Certi-Tape – 1/2" x 5 yd.
First Aid Facts Sheet

CAT. NO. K61033

CRL Wall Mounted Metal First Aid Supply Cabinet

• A Must for Every Shop

CRL's Metal First Aid Supply Cabinet contains a large assortment of high quality first aid products. The heavy-duty, wall mountable cabinet is dust resistant, has three shelves, and easily accessible door pockets. The Metal First Aid Supply Cabinet meets and exceeds ANSI Standard Z308.1 2009. Minimum order is one each.

KIT CONTAINS:

Certi-Strip Adhesive Bandage, Plastic
Certi-Strip Adhesive Bandage, Woven
Certi-Strip Adhesive Bandage, Fingertip
Certi-Strip Adhesive Bandage, Knuckle
Certi-Adhesive Tape Spool
Certi-Skin Closures M/L
Alcohol Wipe-Ups
Ammonia Inhalant
Antiseptic BZK Spray
Antiseptic BZK Towelettes
Bandage Compress
Biohazard Bag with Tie
Tri-Buffered Aspirin Tablets
Certi-Burn Gel
Certi-Burn Spray
Certi-Ache Tablets, Analgesic

Certi-Cet Plus Tablets, Non-Aspirin
Cold Pack, Certi-Cool Large
Absorbent Compress
Cotton Swabs, Package 100
CPRotector, "Mouth-to-Mouth" Barrier
Certi-Rip Elastic Cohesive Bandage
Oval Eye Pads with Tape
Certi-Lizer Eye and Skin Wash

Eye Wash with Eye Cup
First Aid Cream
Forceps, Plastic
Certi-Non Stick Pads
Certi-Gauze Pads
Certi-Gauze Roll
Nitrile Gloves, 2 Pair
Hydrocortisone Cream

Insect Sting Wipe-Ups
PVP Iodine Wipe-Ups
Bandage Scissors
Trauma Dressing XL
Triangular Bandage with Pins
Antibiotic Cream, Certi-Sporyn
First Aid Facts Sheet
12 Pocket Door Pouch

CAT. NO. K206



CRL QR WoundSeal™ Powder

• Stops Bleeding Instantly



CRL's new QR WoundSeal™ Powder literally stops bleeding instantly. Two powder dispensers are included along with instructions. QR WoundSeal™ Powder should be in multiple locations, such as tool boxes and medicine cabinets in every glass shop. Minimum order is one each.

CAT. NO. K506

CRL Adhesive Bandage Strips

• Industrial Bulk Pack

CRL's Adhesive Bandage Strips are individually wrapped, ultra-comfortable, and have non-stick center pads. Keep a box in your shop, truck, tool box or office. Each box contains 100 each 1" x 3" (25 x 76 mm) bandages. Minimum order is one box.



CAT. NO. K220

CRL Eye and Skin Wash

• Wall Mounted

This convenient Eye and Skin Wash Kit contains two bottles of wash, and is designed to be attached to wall locations around your shop. These bottles of wash are perfect for flushing out particles and dust from eyes and washing skin after contact with contaminants. Each Kit contains simple instructions. Minimum order is one each.



CAT. NO. K250507

CRL Adhesive Bandage Assortment

- Perfect for Glass Fabricators and Installers
- 45 Total Bandages



CRL's Adhesive Bandage Assortment contains a combination of five different size bandages, including finger tip and knuckle. Minimum order is one box.

The box contains the following products:

- 30 Adhesive Bandages, 1" x 3" (25 x 76 mm)
- 5 Adhesive Bandages, 2" x 3" (51 x 76 mm)
- 5 Fingertip Bandages
- 5 Knuckle Bandages

CAT. NO. R220113

CRL Antiseptic Assortment

- A Selection of Important Glazing Shop Antiseptics



CRL's Antiseptic Assortment pack contains the most important antiseptic products for glaziers in the shop and on installation projects. The pack contains: 10 Antiseptic 5" x 7" (127 x 178 mm) Towellettes, 6 Burn Cream Packets, and 10 Antibiotic Cream Packets. Minimum order is one each.

CAT. NO. K220111

CRL Knuckle and Fingertip Bandages

- Ideal for Any Glass Shop
- Designed to Fit Flexing Joints



CAT. NO. 2404232
Knuckle Bandage

CAT. NO. 2404230
Fingertip

CRL's Knuckle and Fingertip Bandages are mandatory for any glass shop or tool box. These anatomically designed bandages help protect wounds without "crimping" or the need for multiple bandages or tape. A unique adhesive keeps the bandages in place over the wound or flexing joints until removed. The soft, thick, unitized pad provides protection and cushion, and the non-adherent surface is designed for easy removal.

CAT. NO.	DESCRIPTION	QTY/BOX
2404232	Knuckle Bandage	100
2404230	Fingertip	100

Minimum order: 1 box. Can be combined for quantity pricing.

CRL Evaporative Cooling Bandana

- Reusable and Non-Toxic
- Keeps You Cool All Day



This Bandana can be worn around the head and neck, or used as a hard hat insert to provide cool comfort all day. Activate in water for 15 minutes and the Cooling Bandana is ready to wear for work, sports or gardening activities. Royal blue color, the Bandana can be worn comfortably by all ages.

CAT. NO.	COLOR
2404000	Royal Blue

Minimum order: 1 each.

CRL Dry Pressurized Fire Extinguishers

- Three Easy-to-Use Sizes
- For Class A, B or C Fires

Smother fires quickly and safely with our CRL Dry Pressurized Fire Extinguishers. Several easy-to-use sizes are available for your shop, office, home or vehicle. All have sturdy steel cylinders with pressure gauges, and are rated to fight Class A, B or C fires.

CAT. NO.	SIZE
2025AV	2.5 Lb.
FB500	5.0 Lb.
2100AH	10 Lb.

Minimum order: 1 each.



CRL Safety Vests

- Available in Two Highly Visible Colors



CRL's Safety Vests are lightweight with highly visible green or orange polyester mesh and feature an adjustable front closure with hook-and-loop material. Each Vest includes a 2" (51 mm) reflective stripe on both front and back for increased visibility or night work. Maintains brightness even after 25 washings.

CAT. NO.	COLOR	SIZE
SV2GMLG	Green	Large
SV20MLG	Orange	Large
SV2GM2X	Green	2X
SV20M2X	Orange	2X

Minimum order: 1 each.

CRL Safety Cones

- Fluorescent Orange Color
- Available in Two Sizes

Our CRL Safety Cones are used to channel or barricade vehicle or pedestrian traffic around job sites or your parked truck. Fluorescent orange color Safety Cones are 100% soft and flexible PVC with UV Stabilizers to minimize color fading. Color cannot chip or peel. Performance tested from 10°F to 150°F. Will return to and retain original shape after repeated impact; practically indestructible.



CAT. NO.	HEIGHT
ES17618	18" (457 mm)
ES17628	28" (711 mm)

Minimum order: 1 each.

CRL Safety Tapes

- Weather Resistant, High-Visibility Tape



Caution Tape



Flagging Tape

CRL's high visibility Caution Tape or Flagging Tape are perfect for keeping spectators at a distance or marking off work sites. Both Tapes are made of weather resistant vinyl and the bright fluorescent colors provide easy-to-see barriers, even from a distance.

CAT. NO.	DESCRIPTION	WIDTH	ROLL LENGTH
BT300	Caution Tape	3" (76 mm)	300' (91.4 m)
FT150G0	Flagging Tape	1-3/16" (30 mm)	150' (45.7 m)

Minimum order: 1 roll.

CRL Water Resistant Flashlight

- Water Resistant
- High Intensity Bulb



Our Water Resistant Flashlight has a powerful and very bright high intensity bulb. This flashlight comes with a shatterproof lens and a special parabolic reflector which focuses the beam into a very bright intensified point. Works with four "D" batteries, which are included. The impact resistant casing measures 7-1/8" long by 4" wide (181 by 102 mm). Minimum order is one each.

CAT. NO. F7

CRL Heavy-Duty LED Flashlight

- High Performance and Durability



Everyone needs a super-bright dependable flashlight to keep in your tool box, truck, or clipped to your belt when on the job. CRL's Heavy-Duty Aluminum Flashlight has a premium LED bulb that produces a combination flood and spot beam through a tempered glass lens which resists impact and scratches. The hex head design keeps the light stationary and the anodized aluminum grip pattern resists corrosion and crushing. The O-ring seals provide moisture protection. Requires one AA battery (not included). Dimensions are 4-5/16" x 3/4" (110 x 19 mm). Minimum order is one each.

CAT. NO. DPGA