

# SECTION 5 Caulking Tools and Insulating Glass

## QUICK INDEX

For a complete index to this catalog, turn to Section 7. To search for all CRL Products, go to CRL Total Search at [crlaurence.com](http://crlaurence.com).

### Caulking Guns – Pages 566K to 574K



### Dispensing and Application Tools – Pages 575K to 580K



### Sealant Removal Tools – Pages 581K to 584K



### Insulating Glass Supplies and Equipment – Pages 585K to 626K



## Caulking Gun Ratios - What Does It Mean? Extra Thrust!

Today's high viscosity sealants have brought about a new age of caulking guns. The question is, what does the term "ratio" really mean? Quite simply, for every pound of pressure being applied by the user, the ratio is a multiplier of pounds of pressure being exerted on the cartridge plunger. For example, the CRL 12:1 Ratio Caulking Gun would provide 12 times the amount of each pound of pressure being applied.

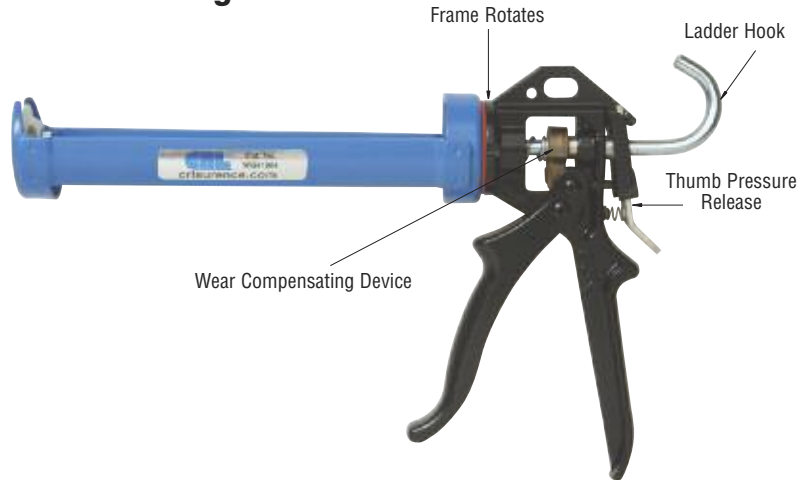
### CRL Cox® 12:1 Ratio Chilton Strap Frame Caulking Gun

- Our Most Popular Model
- Holds Standard Caulking Cartridges

CRL Cox® 12:1 Ratio Chilton Caulking Gun has the smooth operation of a friction rod, plus a large handle and trigger. Perfect for dispensing low to medium viscosity materials. Strap frame rotates to move the nozzle tip where needed.

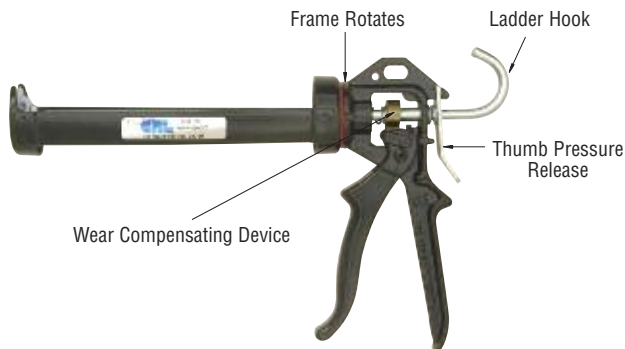
The spring release plunger lets you load and dispense quickly and easily, and releases pressure on the plunger to prevent sealant run-on. A special feature of this gun is the Wear Compensating Device that minimizes wear on the applicator by automatically taking up the slack to provide total trigger action from first use to last. This device will approximately double the life of the gun.

Also features: die cast zinc alloy body, all component replaceable parts, patented catch plate (sintered steel), and built-in ladder hook. Holds all standard size caulking cartridges. Minimum order is one each.



CAT. NO. WG41004

### CRL Cox® 18:1 Ratio Extra Thrust Strap Frame Caulking Gun



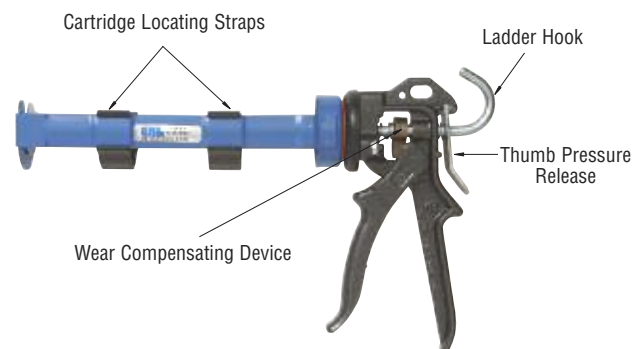
- Ideal for Cold Weather Use or With High Viscosity Sealants

This CRL Cox® 18:1 Ratio Extra Thrust Gun has the smooth operation of a friction rod, plus a large handle and trigger. Perfect for dispensing low to high viscosity materials. Strap frame rotates to move the nozzle tip where needed.

The spring release plunger lets you load and dispense quickly and easily, and releases pressure on the plunger to prevent sealant run-on. A special feature of this gun is the Wear Compensating Device that minimizes wear on the applicator by automatically taking up the slack to provide total trigger action from first use to last. This device will approximately double the life of the gun. Also features: die cast zinc alloy body, all component replaceable parts, patented catch plate (sintered steel), and built-in ladder hook. Holds all standard size caulking cartridges. Minimum order is one each.

CAT. NO. WG41004XT

### CRL Cox® 26:1 Ratio Ascot Strap Frame Caulking Gun



- Effortless Dispensing of High Viscosity Sealants

The CRL 26:1 Ratio Ascot Gun combines case-hardened working parts with a contoured handle and trigger design to make this gun the ultimate for dispensing high viscosity sealants. High-strength strap frame design features improved high-power bulkhead.

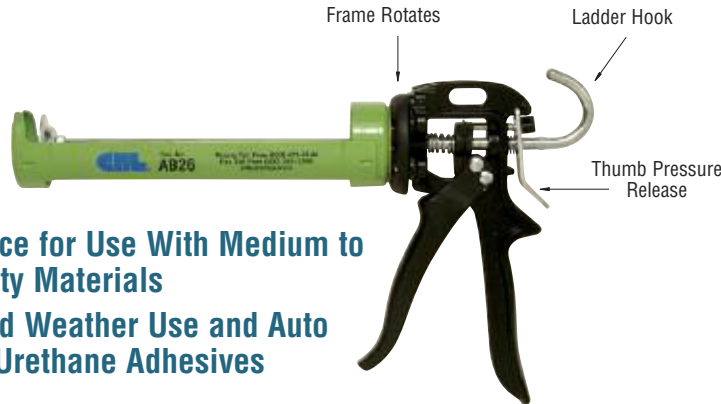
Includes new cartridge locating straps for holding slightly smaller diameter European cartridges. The spring release plunger lets you load and dispense quickly and easily, and releases pressure on the plunger to prevent sealant run-on. Same special Wear Compensating Device as WG41004 Gun. Also features: die cast zinc alloy body, all component replaceable parts, patented catch plate (sintered steel), and built-in ladder hook. Holds all standard size caulking cartridges. Minimum order is one each.

CAT. NO. WG410042T

Cox is a registered trademark of PC Cox Limited Corporation.

Caulking Guns can be combined for quantity pricing.

## CRL 26:1 Ratio Strap Frame Caulking Gun



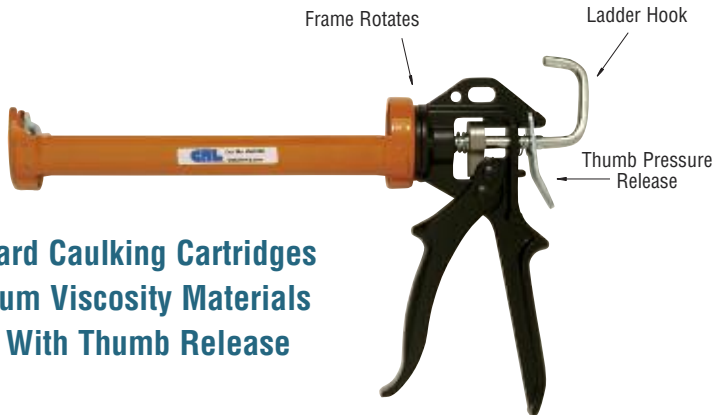
- A Good Choice for Use With Medium to High Viscosity Materials
- Ideal for Cold Weather Use and Auto Windshield Urethane Adhesives



This CRL Heavy Duty 26:1 Ratio Gun has the smooth operation of a friction rod and the mechanical advantage to dispense high viscosity sealants, such as auto urethanes or construction sealants, even during cold weather. The strap frame rotates to move the nozzle tip where needed. The spring release plunger lets you load and dispense quickly and easily. The thumb-activated instant pressure release button prevents sealant run-on. Includes a built-in ladder hook. Twelve guns per case. Minimum order is one each.

CAT. NO. AB26

## CRL 12:1 Ratio Strap Frame Caulking Gun



- Holds Standard Caulking Cartridges
- Low to Medium Viscosity Materials
- Smooth Rod With Thumb Release



This CRL 12:1 Ratio Caulking Gun has the smooth operation of a friction rod, plus a large handle and trigger. Perfect for dispensing low to medium viscosity materials, such as silicones and acrylic latex sealants. The strap frame rotates to move the nozzle tip where needed. The spring release plunger lets you load and dispense quickly and easily. The thumb-activated instant pressure release button prevents sealant run-on. Includes a built-in ladder hook. Twelve guns per case. Minimum order is one each.

CAT. NO. GA1203

## CRL Standard Smooth Rod Caulking Gun



- Thumb Pressure Release Button
- Our Best Seller is Also a Great Value
- Perfect for Low Viscosity Materials



Our CRL Standard Smooth Rod Caulking Gun is CRL's most popular caulking gun because it is quality constructed, and so easy and economical to use. Perfect for dispensing low viscosity materials. The spring release plunger lets you load and dispense quickly and easily, and releases pressure on the plunger to prevent sealant run-on. Minimum order is one each.

CAT. NO. ER3

Caulking Guns can be combined for quantity pricing.



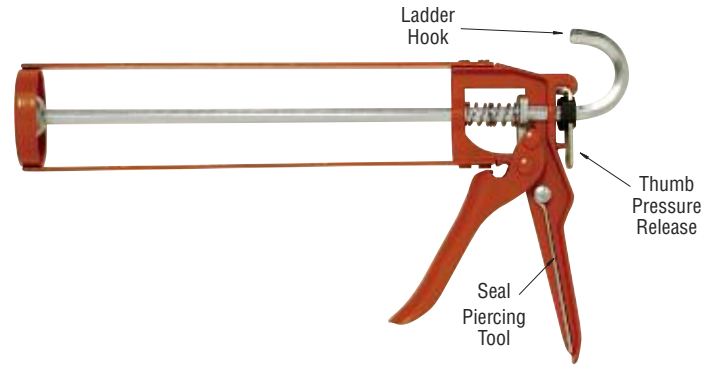
# CRL CAULKING GUNS

For Pricing Visit [crlaurence.com](http://crlaurence.com) or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

## CRL Metal Strap Frame Caulking Gun

- Popular Strap Frame Design
- Smooth Rod With Thumb Release

The strap frame design for caulking guns is becoming increasingly appealing, as witnessed in the fast-growing popularity of this quality gun. The CRL Metal Strap Frame Gun has a friction hex drive rod plunger, heavy die cast zinc alloy frame and trigger, and a thumb pressure release that lets you load and dispense quickly and easily, and releases pressure on the plunger to prevent sealant run-on. Includes built-in ladder hook, and handy seal piercer located in the handle of the sturdy steel skeleton type frame. Minimum order is one each.

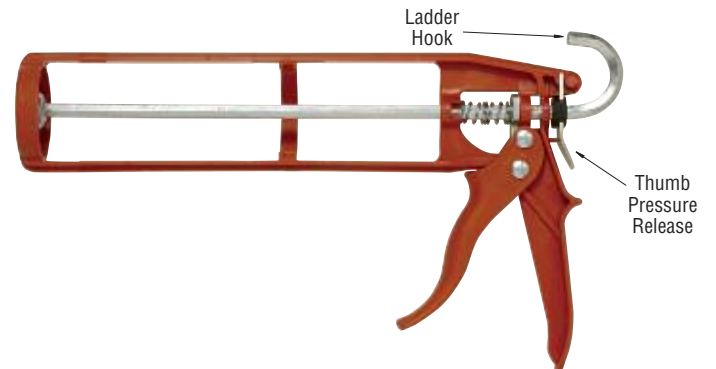


CAT. NO. GA1204

## CRL Nylon Strap Frame Caulking Gun

- Smooth Rod With Thumb Release
- Lightweight, Yet Durable

The CRL Nylon Strap Frame Caulking Gun has a pressure release device to reduce material flow after you release the trigger. This feature is ideal for precise application of your favorite sealant, and works with standard size plastic, metal or composite cartridges with integral or screw-on nozzles. Friction hex drive rod provides the thrust of a metal gun, and has a quick-release latch. Also includes belt or ladder hook. Minimum order is one each.

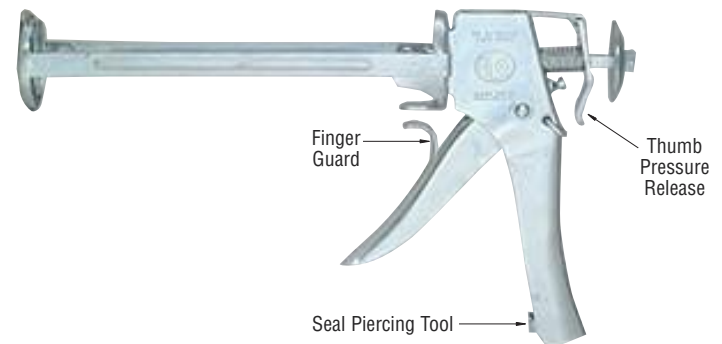


CAT. NO. GA1202

## CRL Albion Deluxe Strap Frame Caulking Gun

- Thumb Pressure Release Button
- Square Smooth Rod

This CRL Albion Deluxe Caulking Gun is made for the professional. Loading is quick and easy. Get superior caulking thrust with the 1-5/8" (41 mm) diameter ejector; speed and holding comfort with the no pinch finger guard. This easy-to-use gun also features a 1/4" (6 mm) square smooth piston rod that rotates for four times longer life. A handy seal piercing tool is located in the handle. Minimum order is one each.

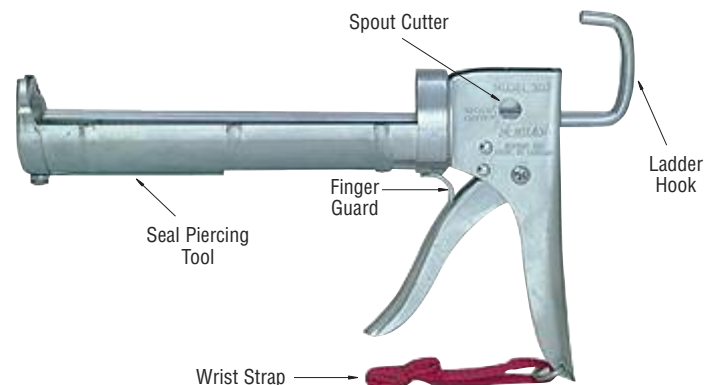


CAT. NO. AB1393

## CRL Newborn Ratchet Rod Caulking Gun

- Lightweight, Yet Durable
- Smooth Action Ratchet Rod

The CRL Newborn Ratchet Rod Gun is a professional model drop-in cartridge gun. The ratchet action rod pushes caulking material smoothly with double, heat-treated dog drives for even application. It's one of our most popular guns because it has a good combination of the following features at a very affordable price: seal piercing tool, nozzle spout cutter, ladder hook, adjustable wrist strap, and no pinch finger guard. Minimum order is one each.



CAT. NO. KM27RD

Caulking Guns can be combined for quantity pricing.



C.R. LAURENCE COMPANY

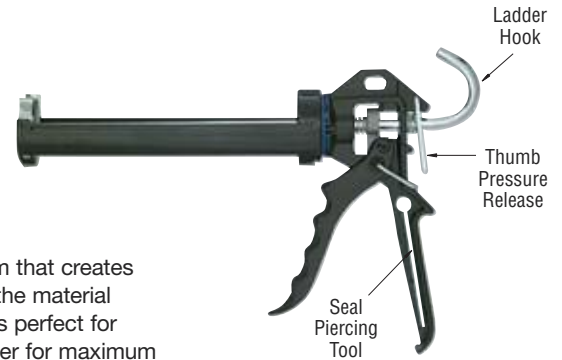
[crlaurence.com](http://crlaurence.com) | [usalum.com](http://usalum.com)

568K | [crlaurence.ca](http://crlaurence.ca) [crlaurence.com.au](http://crlaurence.com.au) [crlaurence.co.uk](http://crlaurence.co.uk) [crlaurence.de](http://crlaurence.de) [crlaurence.eu](http://crlaurence.eu)

## CRL PowerGlide No-Drip Strap Frame Caulking Gun

- Stops Drips Automatically
- Smooth Rod
- Sturdy Steel Skeleton Type Frame

The CRL PowerGlide No-Drip Caulking Gun uses an exclusive automatic mechanism that creates a "vacuum" between the plunger and the caulking tube. When you release the trigger the material flow stops automatically. Features dual power settings: No Drip for most applications is perfect for interior and detail work with thumb release engaged; Power Thrust provides extra power for maximum application per trigger pull. Includes ladder hook; easy load clips to hold cartridge in barrel; and a handy seal piercer located in handle of the sturdy steel skeleton type frame. Minimum order is one each.

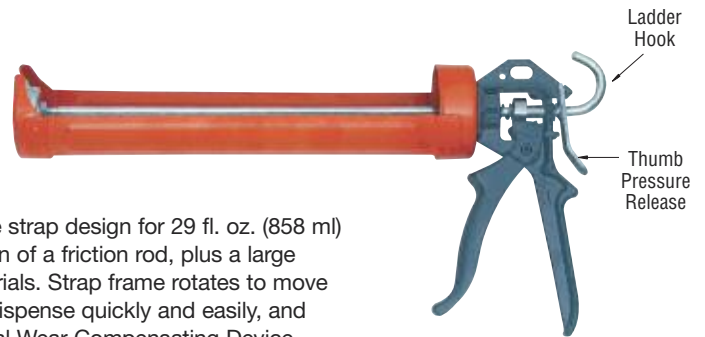


CAT. NO. Z349

## CRL Cox® Quart Size Strap Frame Caulking Gun

- Heavy-Duty Gun With Lightweight Handling
- Smooth Rod

The CRL Cox® Quart Size Strap Frame Caulking Gun incorporates the strap design for 29 fl. oz. (858 ml) quart size cartridges for lightweight handling. It has the smooth operation of a friction rod, plus a large handle and trigger. Perfect for dispensing low to medium viscosity materials. Strap frame rotates to move nozzle tip where needed. The spring release plunger lets you load and dispense quickly and easily, and releases pressure on the plunger to prevent sealant run-on. Same special Wear Compensating Device feature as other Cox® model guns. Minimum order is one each.

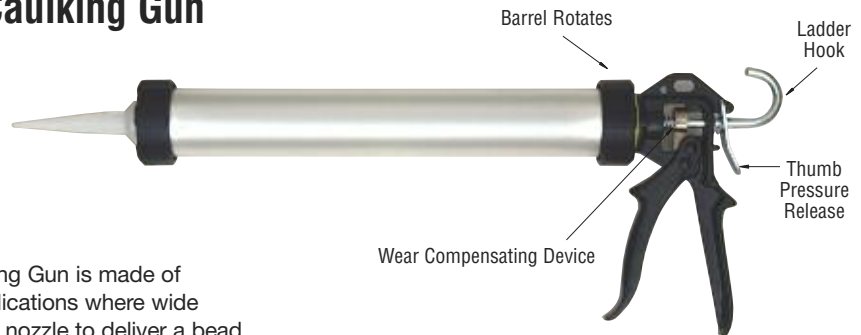


CAT. NO. WG41002

## CRL 15" Sausage and Cartridge Caulking Gun

- Converts for Gunning Sausage Packs or Cartridges
- Includes Plastic Cone Nozzle
- Lightweight Aluminum Barrel

The CRL 15" (381 mm) Sausage and Cartridge Caulking Gun is made of lightweight aluminum, and is ideal for waterproofing applications where wide beads of material are required. Cut the plastic cone type nozzle to deliver a bead from 1/8" (3 mm) up to 3/4" (19 mm) in diameter. Minimum order is one each.

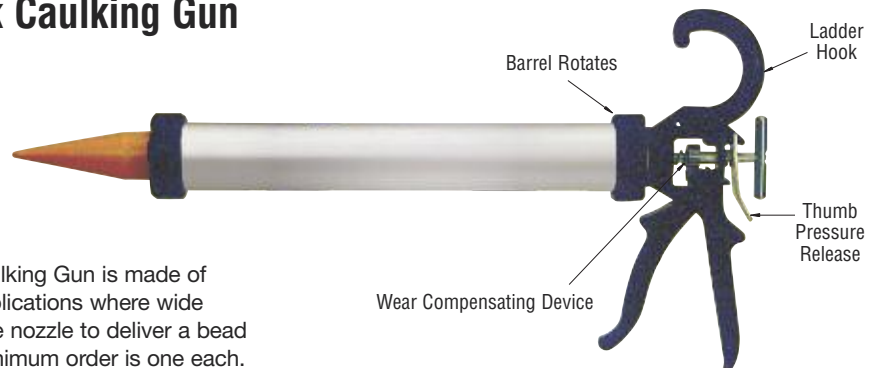


CAT. NO. GA1205

## CRL Cox® Avon 15" Sausage/Bulk Caulking Gun

- Converts for Gunning Sausage Packs, Cartridges or Bulk
- Supplied With Three Extra Nozzles
- Our Most Popular Sausage Gun

The CRL Cox® Avon 15" (381 mm) Sausage/Bulk Caulking Gun is made of lightweight aluminum, and is ideal for waterproofing applications where wide beads of material are required. Cut the plastic cone type nozzle to deliver a bead from 1/8" (3 mm) up to 1-5/16" (33 mm) in diameter. Minimum order is one each.



CAT. NO. WG51001

Cox is a registered trademark of PC Cox Limited Corporation.

Caulking Guns can be combined for quantity pricing.

# CRL CAULKING GUNS

For Pricing Visit [crlaurence.com](http://crlaurence.com) or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

## CRL 12 Volt DC Variable Speed Cordless Cartridge Caulking Gun for Lightweight Sealants

- **Variable Speed Trigger Controls Flow of Sealant**
- **Use to Dispense Lightweight Sealants Such as Silicones and Acrylic Latex**
- **Complete With 12 Volt Battery, One Hour Charger, and Molded Plastic Carrying Case**

This CRL 12V DC Cordless Cartridge Caulking Gun operates on a 12 volt Rechargeable Battery and comes with a One Hour Charger. The variable speed control is in the trigger for easy adjustments in speed. It is ideal for glazing contractors, building contractors, roofers, cabinet makers, OEM fabricators, window manufacturers, or anyone who applies a lot of silicone or acrylic latex sealants and wants an easier, more professional way of getting the job done, without the restrictions of cords or hoses. Affordable and effective, this gun also comes with a 90 day warranty. For uninterrupted production, you can order additional LD188B 12 Volt Battery Packs.

**WARNING:** Not for use with high viscosity automotive urethane adhesives and construction polyurethane sealants. Use Only to dispense lightweight sealants such as silicone and acrylic latex.



CAT. NO.	DESCRIPTION
LD188	12 Volt Cordless Cartridge/Caulking Gun Kit
LD188B	12 Volt DC Battery Pack
LD188C	One Hour Battery Charger
LD188AU	240 Volt Caulking Gun Kit-Australia
LD188C240VAU	240 Volt Battery Charger-Australia
LD188EU	240 Volt Caulking Gun Kit-Europe
LD188C240VEU	240 Volt Battery Charger-Europe

Minimum order: 1 each.

## CRL Albion® Deluxe Professional Sausage/Bulk Caulking Gun

Instant Pressure Release

- **Heavy-Duty Square Smooth Rod**
- **Rotating Swivel Handle**

This CRL Albion® Deluxe Professional Bulk Caulking Gun holds 10.1 and 20.3 fl. oz. (300 and 600 ml) Sausage Packs with its large capacity barrel, or 24 fl. oz. (710 ml) of bulk loaded material. All-steel reinforced welded construction with a corrosion resistant, zinc plated body. An epoxy coated swivel handle rotates, allowing easy direction change and uninterrupted flow. Includes one 1/2" (13 mm) round metal nozzle. Minimum order is one each.

CAT. NO. DL45T04

## CRL Albion® Deluxe Professional 1-1/2 Pint Bulk Caulking Gun

Instant Pressure Release

- **Heavy-Duty Square Smooth Rod**
- **Rotating Swivel Handle**

This CRL Albion® Deluxe Professional Bulk Caulking Gun has a large capacity 24 fl. oz. (710 ml) barrel for bulk loading of caulking materials. All steel reinforced welded construction with a corrosion resistant, zinc plated body. An epoxy coated swivel handle rotates, allowing easy direction change and uninterrupted flow. Also features a quality screw-on conical cap with rolled threads for a tighter seal. Includes one 1/2" (13 mm) diameter metal nozzle. Minimum order is one each.

CAT. NO. DL45T03

## CRL Newborn® Professional Sausage/Bulk Caulking Gun

Built-In Spout Cutter

- **Convertible for Sausage, Bulk and Cartridge Material**
- **Ratchet Rod**

This CRL Newborn® Professional Model Bulk, Cartridge, and Sausage Caulking Gun is shipped ready to use with standard cartridges and converts to accept both 16 fl. oz. (473 ml) bulk material or 10 fl. oz. (296 ml) sausage packs. It comes with a conical ejector end cap with a 3/8" (9 mm) round metal nozzle, a ring cap that accepts wide tip cone nozzles, and is equipped with a built-in spout cutter and wrist strap. Minimum order is one each.

CAT. NO. KM32RCT

## CRL Albion® 2-1/2 Quart Big Capacity Bulk Caulking Gun

Instant Pressure Release

- **Heavy-Duty Square Smooth Rod**
- **Rotating Swivel Handle**

This CRL Albion® Bulk Caulking Gun has a 2-1/2 quart (80 fl. oz./2.4 l) capacity and is easy to handle. Made for bulk-loaded caulking materials only, it is supplied with a 3/4" (19 mm) diameter metal nozzle. All steel reinforced welded construction with a corrosion resistant zinc plated body. An epoxy coated swivel handle rotates, allowing easy direction change and uninterrupted flow. The best gun to use for that really big job where frequent gun refills may not be convenient. Minimum order is one each.

CAT. NO. KM145RCT

Albion is a registered trademark of Albion Engineering Company Corporation. Newborn is a registered trademark of Newborn Brothers & Co., Inc.

Caulking Guns can be combined for quantity pricing.



C.R. LAURENCE COMPANY

[crlaurence.com](http://crlaurence.com) | [usalum.com](http://usalum.com)

570K | [crlaurence.ca](http://crlaurence.ca) [crlaurence.com.au](http://crlaurence.com.au) [crlaurence.co.uk](http://crlaurence.co.uk) [crlaurence.de](http://crlaurence.de) [crlaurence.eu](http://crlaurence.eu)

# CRL CAULKING GUNS

For Pricing Visit [crlaurence.com](http://crlaurence.com) or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

## CRL Milwaukee® 18 Volt Variable Speed Cordless Caulking Guns

- Easily Dispenses High Viscosity Auto Urethanes
- Interchangeable Front Ends Work With Standard Cartridges, 29 Fl. Oz. Quart Cartridges, and 20.3 Fl. Oz. Sausage Packs
- Includes 18 Volt Battery and One Hour Charger

**new**



**CAT. NO. 264121CT**  
Standard Cartridge Gun



**CAT. NO. 264221CT**  
20 Fl. Oz. Sausage Pack

**CAT. NO. 48591801**  
One Hour M18 Charger

**CAT. NO. 48111815**  
M18 Compact Battery

**CAT. NO. 271020**  
18V DC Vehicle M18 Charger

This heavy-duty 18 Volt DC Cordless Caulking Gun makes manual caulking obsolete. A powerful pushing force of 950 pounds (431 kg) easily dispenses high viscosity materials such as automotive urethanes. Gun features include: variable speed trigger and remote speed dial control for optimized bead and steady flow rates; auto clutch release for rapid loading of material; anti-drip auto clutch (stops sealant flow when trigger is released); auto shut off at the end of plunger rod travel; 360 degree carriage rotation for easy work around corners and hard to reach areas.

Guns are ordered pre-configured for the type of packaging to be used: standard 10 fl. oz. (300 ml) cartridges, or 20 fl. oz. (600 ml) sausage packs. Additional front ends and plunger rods can be special ordered to convert the Gun to any configuration. All Gun Kits come standard with a 18V DC Battery Pack and One Hour Charger.

CAT. NO.	DESCRIPTION
264121CT	Standard Cartridge Gun, 18V Battery and One Hour Charger
264221CT	20 Fl. Oz. Sausage Gun, 18V Battery and One Hour Charger
48111815	18 Volt DC 1.4 Amp Hour Compact Battery Pack
48591801	One Hour M18 Battery Charger
271020	18V DC Vehicle Charger

Minimum order: 1 each.

## CRL Drill-Mate Portable Drill Powered Caulking Gun

- Costs Less Than Battery Operated Caulking Guns
- Two Year Limited Warranty
- Develops Up to 300 P.S.I. of Pressure

Combine the reliability of a cordless drill with the power of a high ratio caulking gun and you get the CRL Drill-Mate Portable Drill Powered Caulking Gun. With up to 300 pounds (136 kg) per square inch of pressure you can gun just about any material in a cartridge. A quick release clutch keeps the material from continuing to flow once you stop the drill. Made of strong high-impact plastics and backed by a two year warranty, this Gun accepts all standard cartridges. At over 50 percent less cost than a battery powered caulking gun, this is a hands down favorite for mobile operations. Minimum order is one each.

Milwaukee is a registered trademark of Milwaukee Electric Tool Corporation.



Portable Drill  
not included

**CAT. NO. PR1000**



## CRL Cox® Air Power Sausage Gun

- Dispenses 10 to 20 Fl. Oz. Sausage Packs
- Air Regulator Pressure Adjuster



The CRL Cox® Air Power Sausage Caulking Gun dispenses even heavy materials, such as urethane, at a smooth, controlled rate of flow. It can be used with 10, 15.2 or 20.3 fl. oz. (296, 450 or 600 ml) sausage packs. The high flow trigger valve is responsive, with a built-in regulator to control flow, and an instant release valve with silencer to stop material flow. Can operate at up to 100 psi maximum. Minimum order is one each.

CAT. NO. WG6100620

## CRL Cox® Piston Rod Air Power Caulking Gun

- Dispenses Standard Cartridges and 10 Fl. Oz. Sausage Packs
- Quick Release End Cap



The CRL Cox® Piston Rod Air Power Caulking Gun dispenses even heavy materials, such as urethane, at a smooth, controlled rate of flow. The piston rod thrust prevents material contamination by compressed air, allowing use with standard 10.3 fl. oz. (305 ml) cartridges, or 10 fl. oz. (296 ml) sausage packs. The high-flow trigger valve is responsive, with a built-in regulator to control flow, and an instant release valve to stop material flow. Can operate at up to 100 psi maximum. Minimum order is one each.

CAT. NO. WG61004

## CRL Cox® Air Power Caulking Gun

- Holds Standard Cartridges
- Air Regulator Pressure Adjuster



This is a superb quality, lightweight air powered gun. The 2" x 10" (51 x 254 mm) drawn aluminum barrel holds all standard size cartridges. The Gun dispenses materials smoothly and uniformly with just a trigger squeeze, and connects to standard 1/4" (6 mm) NPT hose fittings. It has an instant release valve to stop material flow, a true air regulator, and can operate at up to 100 psi maximum. The body is made of lightweight drawn aluminum with a quick release end cap for fast change out of cartridges. A quick-disconnect fitting is included and replaceable parts are available for all components. Air action on cartridge plunger. Minimum order is one each.

CAT. NO. WG61001

## CRL Air Power Caulking Gun

- Holds Standard Cartridges
- Adjustable Air Flow 0-40 PSI
- Lightweight, High Density Plastic Body



This CRL Air Power Gun dispenses sealants packaged in standard caulking cartridges, up 10.5 fl. oz. (310 ml). Perfect for high volume users like window manufacturers, or anyone looking for fast dispensing of sealants with a uniform bead. This lightweight Gun weighs only 15 oz. (435 g). Maximum air pressure: 40 psi. Adjustable air flow: 0 – 40 psi. Accommodates an air hose diameter of 3/8" (ID) with an air inlet dimension of 1/4" - 18/19 NPT male nipple. Minimum order is one each. **NOTE:** May not dispense some high viscosity auto windshield urethanes.

CAT. NO. 3021301

## CRL Deluxe Air Drive Caulking Gun

- Twist-Lock Instant Loading Barrel
- Complete With Air Hose



This CRL Deluxe Air Drive Caulking Gun holds all standard size cartridges of sealants, adhesives, mastics or other caulking materials. It weighs less than one pound, so it is easy to handle. The trigger controls material flow, allowing you to dispense a smooth bead 2-3 times faster than a manual gun. It requires 5-70 psi air pressure. The gun comes standard with a 25' (7.6 m) air hose that connects to an optional compressor unit or your own compressed air supply.

CAT. NO.	DESCRIPTION
PG100	Air Caulking Gun
1002BARREL	Replacement Barrel

Minimum order: 1 each.

Cox is a registered trademark of PC Cox Limited Corporation.

## CRL Quart and Standard Size Air Drive Caulking Gun

- Includes Quart and Standard Size Barrels
- Lightweight and Fast Loading



The CRL Quart Size Air Drive Caulking Gun is made for those caulking materials in "jumbo" quart 30 fl. oz. (887 ml) size cartridges. It's fast loading, with a twist lock barrel. The precision air control valve makes applications smooth. It also comes with a 36" (914 mm) hose with standard 1/4" (6 mm) NPT hose fittings, and requires 5-65 psi. The barrel accepts all standard quart cartridges, and comes with a barrel for standard size caulking cartridges. Connects to an optional compressor unit or your own compressed air supply. Minimum order is one each.

CAT. NO. PG150



## CRL Yellow Plastic Cone Nozzles

- Bead Sizes From 1/8" to 1-5/16" (3 to 33 mm)
- Easy to Clean After Use

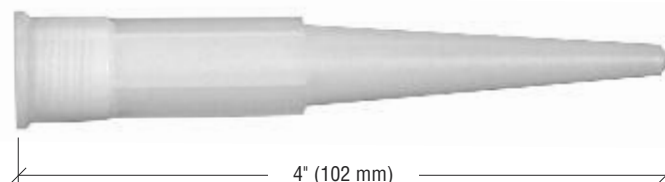


CRL Yellow Plastic Cone Nozzles are extra large for bulk and sausage caulking applications where wide beads of material are required. These are the same Cone Nozzles that come with the Cat. No. WG51001 Sausage Gun. The plastic cone-type Nozzle can be cut to deliver a bead from 1/8" to 1-5/16" (3 to 33 mm) in diameter. Fits most sausage and bulk guns with screw-on ring caps. Five Nozzles per pack. Minimum order is one pack.

CAT. NO. WGCN

## CRL Screw-On Silicone Nozzles

- Additional Nozzles for Screw-On Type Silicone Cartridges

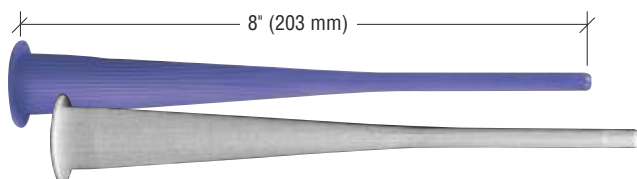


CRL Screw-On Silicone Nozzles are tapered so you can trim the nozzle to exactly the bead size you need. NOTE: These Nozzles will not fit auto glass urethane cartridges because of the different thread size. For auto glass urethane cartridges, use Cat. No. UN0Z. 24 Nozzles per pack. Minimum order is one pack.

CAT. NO. S1LN0Z

## CRL Problem Solver Nozzles

- Reaches Areas You Never Thought Possible
- Rigid, Flexible or Combo Pack



Problem Solver Nozzles fit virtually any caulking cartridge by sliding over the existing nozzle, or screwing onto the threaded nipple. Choose from either Rigid or Flexible Nozzles (four Nozzles per pack), or order the Combo Pack with two flexible and two rigid Nozzles per pack.

CAT. NO.	DESCRIPTION	COLOR
PSN2	Four Rigid Problem Solver Nozzles	Blue
PSN4	Four Flexible Problem Solver Nozzles	White
PSN6	Combo Pack of Four Problem Solver Nozzles	Mixed

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

## CRL Corner Caulker Nozzles

- Reusable and Easy to Clean
- 90 Degree Bend

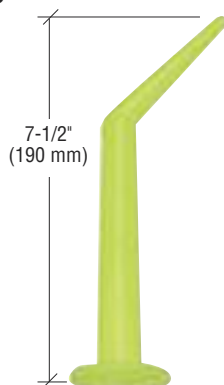


CRL Corner Caulker Nozzles are durable polyethylene Nozzles with a 90 degree bend that allows application of sealants or caulks to places standard Nozzles can't reach. Firmly grips the Nozzle of both 1/10 gallon (300 ml) and 1 quart (946 ml) size cartridges. Reusable and easy to clean. 10 Nozzles per package. Minimum order is one pack.

CAT. NO. CC103

## CRL Angle Shot Bent Nozzle

- 45 Degree Bent Spout for Use With Standard Cartridges, Sausage or Bulk Guns
- Extra Long 7-1/2" (190 mm) Overall Length



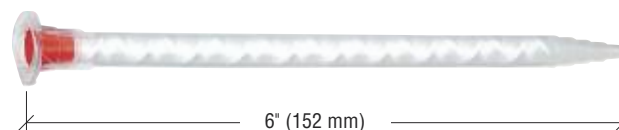
CRL Angle Shot Bent Nozzles fit virtually any caulking cartridge by sliding over the existing nozzle. They hold securely between the cartridge and the end of the caulking gun, and will also adapt for sausage or bulk guns. The 45 degree bend and extra long length make reaching into and around corners both easy and fast. Minimum order is one each.

CAT. NO. AB9351

3M is a registered trademark of 3M Company Corporation.

## CRL 3M® Auto-Mix™ Mixer Nozzles

- Replacement Nozzles for 3M® Auto-Mix Adhesive



CRL 3M® Auto-Mix™ Mixer Nozzles are the key to 3M® Cat. No. 3M8641 Auto-Mix™ Adhesive. Inside each Nozzle is a series of blades to continually cut and mix the material ensuring that when it reaches the tip it is fully mixed. Each application usually requires a new tip (unless continual flow of material is maintained), so we suggest you stock up on extra Nozzles. Fits Cat. No. 3M8190 3M® Auto-Mix™ Applicator Gun (see page 576K). 12 Nozzles per package. Minimum order is one pack.

CAT. NO. 3M21791

## CRL Metal Caulking Gun Nozzles

- **Variety of Diameters and Configurations to Fit Bulk Load Caulking Guns**

These CRL Metal Nozzles fit most bulk caulking guns, such as KM32RCT, DL45T03, DL45T04, or others having a 3/8"-27 thread in the barrel cap.

CAT. NO.	DESCRIPTION	CAT. NO.	DESCRIPTION
<b>KM1</b>	1/8" (3 mm) Round	<b>KM6</b>	1/2" (13 mm) Triangular
<b>KM2</b>	3/16" (5 mm) Round	<b>KM7</b>	5/8" (16 mm) Oval
<b>KM3</b>	1/4" (6 mm) Round	<b>KM13</b>	3/32" x 7/8" (2.4 x 22 mm) Slot
<b>KM8</b>	3/8" (10 mm) Round	<b>KM15</b>	1/32" x 5/8" (0.8 x 16 mm) Slot
<b>KM5</b>	1/2" (13 mm) Round	<b>KM17</b>	1/8" x 9/16" (3 x 14 mm) Slot

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



CAT. NO. KM1



CAT. NO. KM8



CAT. NO. KM6



CAT. NO. KM7



CAT. NO. KM15



CAT. NO. KM2



CAT. NO. KM3



CAT. NO. KM5



CAT. NO. KM13



CAT. NO. KM17

## CRL Little Red Nozzle Caps

- **Economical and Reusable**
- **Reduces Sealant Waste**

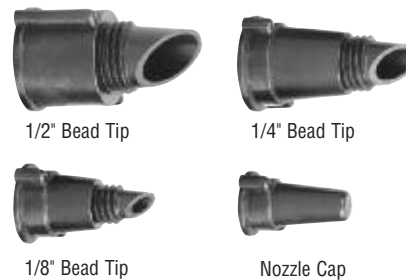


These CRL Little Red Nozzle Caps have an award winning design for capping tubes of sealant, caulk, wood glue, paint, or anything else on your shop shelf that needs to be sealed and reused after it has been opened. These economical, reusable Little Red Nozzle Caps cut sealant waste. Placed over the nozzle of partially used sealant cartridges, they seal out air and dirt to preserve the quality of the remainder of the sealant. Little Red Nozzle Caps also make a perfect Romex wire termination, air tool inlet, and felt pen cap. The possibilities are limitless. 35 Caps per package. Minimum order is one pack.

CAT. NO. LRC35

## CRL Reusable Caulk Tips and Cap

- **Fit All Standard Cartridges**



CRL Caulk Tips are reusable therefore they allow all the sealant to be used. 1/8", 1/4", and 1/2" (3, 6, and 12 mm) Tips are precut at a 45 degree angle. The Nozzle Cap can be used with all standard cartridges. Minimum order is one pack.

CAT. NO. CT45

## CRL Empty Plastic Cartridge

- **Suitable for Most Cold Applied Sealants**



This CRL Plastic Cartridge is made of a high density polyethylene, and is suitable for most cold applied sealants. The 1/10th gallon (310 ml) capacity, 2" (51 mm) diameter, and 8-1/2" (216 mm) length Cartridge fits all standard cartridge caulking guns. The Cartridge includes a tapered, non-removable nozzle and a plunger cap. Minimum order is one each.

CAT. NO. 103FL

## CRL Nozzle Cutter

- **Use on All Plastic Cartridges to Cut Nozzle Tip and Threaded Tip**



Our CRL Nozzle Cutter is used to cut off the plastic threaded tip of the cartridge and then cut the nozzle tip to the desired opening size at the proper angle. **NOTE:** Keep SAFELY AWAY from children! EXTREME DANGER to fingers if accidentally inserted in the cutter inlet! Minimum order is one each.

CAT. NO. NC594

## CRL Adhesive Pump With 16 Fl. Oz. Can

- Used to Dispense a Variety of Liquid Adhesives, Sealers, and Primers



Use CRL Adhesive Pumps to dispense adhesives, sealers, primers or lubricants. The 195AG 16 fl. oz. (473 ml) can features a heavy-duty pump mechanism, 4" (102 mm) spout, and extra heavy-duty cap and spring. Can be easily disassembled for cleaning. Minimum order is one each.

**CAT. NO. 195AG**

## CRL Adhesive Pump Only for 16 Fl. Oz. Can

- Fits Most 6 to 16 Fl. Oz. Cans



The 181AG Adhesive Pump will fit most cans from 6 to 16 fl. oz. (177 or 473 ml). Use Cat. No. CRL 2032 Solvent and Adhesive Cleaner to properly clean guns and pumps. Minimum order is one each.

**CAT. NO. 181AG**

## CRL Handi-Foam® Dispensing Guns

- Dispenses Expanding Handi-Foam®
- Control Valve for Precise Flow

Our P10163 and P10290 Handi-Foam® can be applied using either the CRL Metal or Plastic Dispensing Guns. The trigger applicator has a control valve for precise flow, and a comfortable pistol grip for easy handling. The Handi-Foam® canister fits directly into a receptacle on the top of the gun. Just screw on the can, hold can and gun in both hands, shake vigorously for one minute and you're ready to go.



**CAT. NO. F61010**  
Metal Dispensing Gun



**CAT. NO. F61000**  
Plastic Dispensing Gun

**NOTE:** Cat. No. F61010 Metal Gun can be cleaned with Cat. No. FOM014 FomoClean Solvent. Cat. No. F61000 Plastic Gun cannot be cleaned with solvents.

CAT. NO.	DESCRIPTION
<b>F61010</b>	Metal Dispensing Gun
<b>F61000</b>	Plastic Dispensing Gun

Minimum order: 1 each.

Handi-Foam is a registered trademark of Fomo Products, Inc.  
Graco is a registered trademark of Graco Minnesota, Inc.

## CRL Graco® 5 Gallon Dispenser

- Air Powered 23:1 Ratio
- Completely Assembled and Ready to Use
- For Low to Medium Viscosity Materials

This economical CRL Graco® 5 Gallon Pumping System pumps silicone, grease, caulk, and sealant directly from 5 gallon (20 l) pails. Designed to pump low-to-medium viscosity one-part materials (30,000 + cps, Flow Rate 0-2.8 GPM). The 23:1 low maintenance carbon steel pump provides trouble-free operation, and is powered by a 3-1/4" (82.5 mm) air motor, including pressure gauge and regulator. It is easy to operate and ready to use. Minimum order is one each.

**NOTE:** Does not include Hose and Gun Assembly. Contact our Customer Service Department for options available for this system. Approximate shipping weight is 225 Lbs. (102 kg). Dispenser may vary slightly from image shown.



**CAT. NO. 50052**

# CRL ADHESIVE DISPENSERS

For Pricing Visit [crlaurence.com](http://crlaurence.com) or Call Us Toll Free  
at the Phone Numbers Shown on the Back Cover

## CRL 3M® Auto-Mix Adhesive Applicator Gun



CAT. NO. 3M21791

Mixer-Nozzle  
(sold separately see page 573K)

- For Use With 3M8641 Auto-Mix Adhesive

The CRL 3M® Auto-Mix™ Applicator Gun is used with the Cat. No. 3M21791 Mixer Nozzle to quickly and neatly mix and dispense CRL 3M Auto-Mix Adhesive exactly where you want it. Minimum order is one each.

CAT. NO. 3M8190

## CRL Plastic Applicator Bottle With Needle

- For Precise Dispensing of Adhesives, Solvents or Lubricants
- 1-1/2" (38 mm) Long Stainless Steel Needle

The CRL Applicator Bottle is a 1.25 fl.oz. (37 ml) oval polyethylene squeeze-type applicator bottle with a 1-1/2" (38 mm) stainless steel needle. Ideal for precision cementing, solvent dispensing, and oiling. Minimum order is one each.



CAT. NO. AAB4

## CRL Small Tube Dispenser Handle

- Makes Small Tubes of Sealants or Adhesives Easy to Dispense



The Small Tube Dispenser Handle is the fast and easy way to dispense materials such as silicones and adhesives from squeeze tubes. It lets you apply just the right amount of pressure for the proper bead size, and since you apply just the right amount of material there is less mess and clean up. The open back design lets you draw the tube through the handle, so you can get virtually all of the material from the tube, reducing waste. Holds all flexible plastic or metal tubes up to 2-1/2" (63 mm) wide. Minimum order is one each.

CAT. NO. 710XX006

## CRL Pistol Type Oiler

- Made Especially for Dispensing Oil and Solvents
- High Quality Steel Can Comes With Two Nozzles



This heavy-duty CRL Pistol Type Oiler dispenses oil and solvents through either a 6" (152 mm) rigid metal, or flexible high density polyethylene spout. It has a 6 fl.oz. (177 ml) capacity and supporting base ring. Brass pump mechanism for smooth operation and a gasket on the lift rod to prevent leakage. Baked-on enamel finish on body resists rust. Minimum order is one each.

CAT. NO. KP500

## CRL Barrel Transfer Pump

- Delivers 10 Fl. Oz. (300 ml) Per Stroke
- Fits a Variety of Drums

This CRL Barrel Transfer Pump is an easy to operate suction lift pump that can be used on any 30 to 55 gallon (113 to 208 l) drum to dispense a wide variety of liquids. Delivery is 10 fl.oz. (300 ml) per stroke. Features telescoping suction pipe and pipe seal. Excellent for dispensing bulk oil based sealers or lubricants. **IMPORTANT NOTE:** Not for use with solvents, water-base fluids, weak acids, anti-freeze, or fuel. Minimum order is one each.



3M is a registered trademark of 3M Company Corporation.

CAT. NO. KP45485

## CRL Gun Fill Pump

- For Three and Five Gallon Straight Sided Pails
- Provides the Economy of Bulk in Small Containers

This CRL Gun Fill Pump is designed to transfer bulk sealants, adhesives or lubricants from three or five gallon (11 or 19 l) pails into convenient smaller containers. It is an 18" (457 mm) pump with a 12" (305 mm) follower plate. Minimum order is one each.



CAT. NO. GFD450



C.R. LAURENCE COMPANY

[crlaurence.com](http://crlaurence.com) | [usalum.com](http://usalum.com)

576K | [crlaurence.ca](http://crlaurence.ca) [crlaurence.com.au](http://crlaurence.com.au) [crlaurence.co.uk](http://crlaurence.co.uk) [crlaurence.de](http://crlaurence.de) [crlaurence.eu](http://crlaurence.eu)



## CRL Paddle Mixer

- Zinc Plated Steel Mixer Fits Pails Up to Five Gallons



This CRL Paddle Mixer is zinc plated steel and used with larger containers of material, up to 5 gallons (18.9 l). Its opposing bent blades completely mix putties, mastics, paints, sealants, etc. It requires a drill with a 3/8" (9.5 mm) chuck and low RPM. Overall length is 15-3/8" (391 mm). Paddle head is 4-1/4" (108 mm) wide. Minimum order is one each.

CAT. NO. MX91

## CRL Follower Plates

- For Two Gallon Plastic or Metal Pails



CAT. NO. KM2P



CAT. NO. KM2M

CRL Follower Plates are designed for straight-sided two gallon (7.57 l) plastic or metal pails. Using a Follower Plate permits quick, clean loading of bulk guns, as well as helping to eliminate much of the wasted material normally left in the bottom of pails.

CAT. NO.	FITS
KM2P	Two Gallon Plastic Pail
KM2M	Two Gallon Metal Pail

Minimum order: 1 each.

## CRL Funnel

- Three Models Available



CAT. NO. UV5725



CAT. NO. KP64411

CRL Funnel are available in three types. Choose from plastic, galvanized steel, or nylon rapid-flow design.

CAT. NO.	DESCRIPTION
UV5725	Plastic Funnel - 8 Fl. Oz.
KP64411	Steel Funnel - 1 Quart
KP64468	Nylon Funnel - 1 Quart

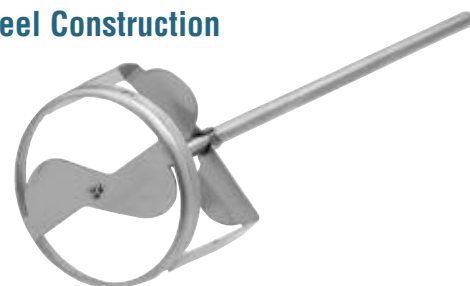
Minimum order: 1 each.



CAT. NO. KP64468

## CRL Jiffy Mixer

- For Pails Up to Three Gallons
- Stainless Steel Construction



Operate this CRL Jiffy Mixer with any power tool at a recommended 450 to 750 RPM in an open container. Ideal for mixing two-part construction polyurethanes, and other two-component sealants. A true mixer, not a paddle-type stirrer, the two vertical blades confine the main mixing action within the mixer, and the horizontal opposed impellers force materials from the lower and upper areas of the container into the mixer. Thoroughly mixes paints, sealants, and putties to proper consistency, and blends in single and multi-component materials. Overall length is 10-1/4" (260 mm). Mixing head is 2-5/8" (67 mm) diameter. Minimum order is one each.

CAT. NO. MX40

## CRL Dual Hytrel Cup

- Replaces Worn Leathers in Bulk Load Guns



The most commonly worn-out component part in bulk caulking guns are the leather cups. CRL Dual Hytrel Cups replace the leather cups found in most 2" (51 mm) diameter barrels. Minimum order is one each.

CAT. NO. KM216L

## CRL Lid-Off Tool

- Eliminates Difficult Lock Cutting on Plastic Lids
- Opens Plastic Pails Quickly



This time-saving tool eliminates difficult lock cutting on plastic lids. The plastic CRL Lid-Off Tool provides enough leverage to cleanly lift off the lid without distortion so the pail can be resealed. Even the most tightly sealed lids surrender in no time to this one-piece professional tool. Minimum order is one each.

CAT. NO. LOT1

## CRL Wooden Handle Spatulas

- **Stainless Steel Blade With Rounded Tip for Recommended Tooled Sealant Profile**



CRL Spatulas are used to tool sealant joints, and to scrape out material from pails. They have a flat, flexible, heat treated stainless steel blade with a rounded tip for creating the recommended hourglass shape of sealant joints. Comfortable hardwood handle.

**NOTE:** Not available in Australia.

CAT. NO.	BLADE SIZE
AB2584	4" x 3/4" (102 x 19 mm)
AB2586	6" x 1" (152 x 25 mm)
AB2588	8" x 1-1/4" (203 x 32 mm)

Minimum order: 1 each.

## CRL All Stainless Steel Spatulas

- **Seven Different Sizes**
- **All Stainless Steel**
- **Easy to Clean**



CRL All Stainless Steel Spatulas are used to tool sealant joints. Their length extends your reach and comes in handy for hard to reach areas. The flat, flexible, tempered spring stainless steel tooling blade is attached to a comfortable curved handle. They are also easy to clean. The complete set includes seven tools held together with a snap ring, or you can order individual Spatulas.

Order the complete set or buy them individually

CAT. NO.	OVERALL SIZE
AB9583T	6-7/8" x 3/8" Tapered (175 x 9.5 mm)
AB9583	6-3/4" x 5/8" (171 x 16 mm)
AB9584	7-3/4" x 3/4" (197 x 19 mm)
AB9585	8-3/4" x 13/16" (222 x 20 mm)
AB9586	11" x 1" (279 x 25 mm)
AB9588	12-7/8" x 1-1/4" (327 x 32 mm)
AB95810	15" x 1-1/2" (381 x 38 mm)
AB958G	Complete Set of Seven Spatulas

Minimum order: 1 each. Individual Stainless Steel Spatulas can be combined for quantity pricing.

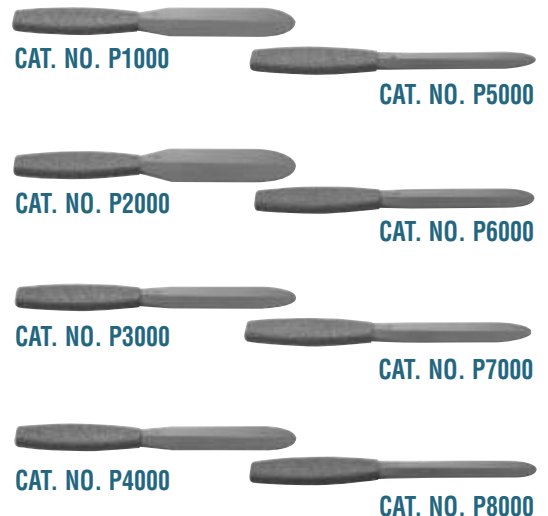
## CRL Plastic Caulking Applicator Tools

- **Unique Spline Radius Design**
- **Cured Sealant Easily Peels Off Tool**

CRL Plastic Caulking Applicator Tools will not scratch or damage glass, painted surfaces, metal, tile, porcelain, polished stone, etc. Lightweight high-quality copolymer material is strong yet will flex under pressure, and is easy to clean after use. Sold both individually and as a set of eight different styles to handle the most common joints. Overall length of each tool is 8-3/4" (222 mm).

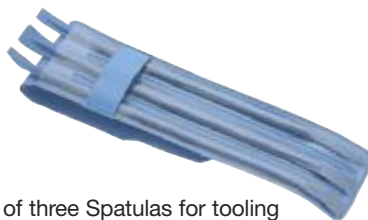
CAT. NO.	BLADE WIDTH AND STYLE	CAT. NO.	BLADE WIDTH AND STYLE
P1000	1-1/4" (32 mm) - 10	P6000	7/8" (22 mm) - 60 P*
P2000	1-1/2" (38 mm) - 20	P7000	7/8" (22 mm) - 70 A*
P3000	1" (25 mm) - 30 A*	P8000	3/4" (19 mm) - 80 P*
P4000	1" (25 mm) - 40 P*	PC1080	Complete Set of Eight Applicators
P5000	3/4" (19 mm) - 50 A*		

Minimum order: 1 each. \*A (Aggressive) - more pointed radius. \*P (Passive) - more rounded radius. Individual Applicator Tools can be combined for quantity pricing.

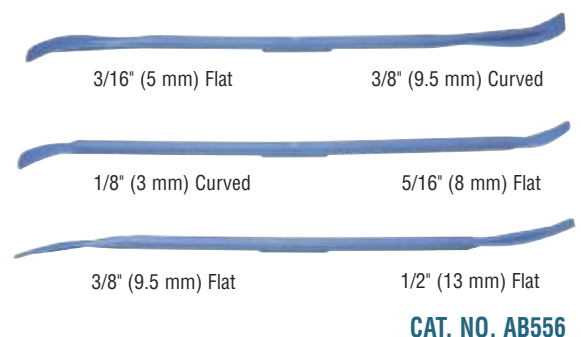


## CRL Sealant Spatula Set

- **Tools Six Different Joint Widths**
- **Easy to Clean After Use**



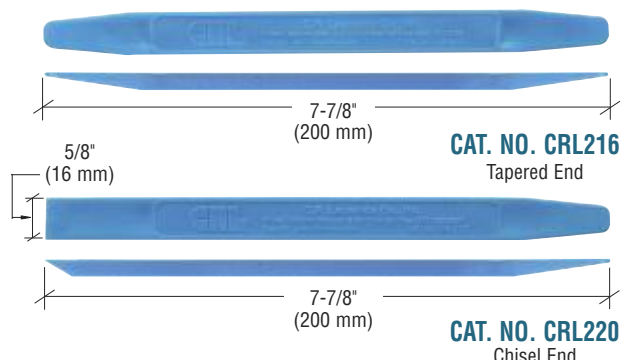
The CRL Sealant Spatula Set is a unique kit of three Spatulas for tooling applied sealants. They are tapered on each end for use in six different joint widths. The lightweight material is strong, will flex under pressure, and is easy to clean up after use. The overall length of each Spatula is 7-1/4" (184 mm), and each set comes in a divided vinyl pouch you can carry in your pocket or toolbox. Minimum order is one set.



CAT. NO. AB556

## CRL Plastic Stick Tools

- A Very Popular Tool With Virtually Limitless Uses
- Tapered or Chisel End Tools



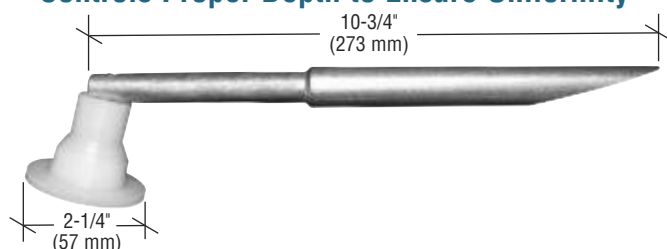
The CRL Plastic Stick Tool is one of our most popular items. Caulkers use them for tooling freshly applied sealants; glaziers find them useful for pushing vinyl into window channels; painters use them as mixing sticks; and auto glass installers use them for setting or removing glass from rubber gaskets. Stick Tools are made of a special high strength, flexible plastic formula that won't scratch adjoining glass or metal and makes them easy to clean.

CAT. NO.	DESCRIPTION
<b>CRL216</b>	Tapered End Stick Tool
<b>CRL220</b>	Chisel End Stick Tool

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

## CRL Backer Rod Roller

- Installs Backer Rod in Joints From 1/4" to 1" (6 to 25 mm)
- Controls Proper Depth to Ensure Uniformity



The CRL Backer Rod Roller greatly increases production with the unique roller design that allows fast and easy installation of backer rod with no more changing of wheels and making adjustments to get the proper depth. The pointed backside of the tool is used to insert the first few inches of the rod and to turn corners. Installs backer rod in joints ranging from 1/4" to 1" (6 to 25 mm) wide. Lightweight aluminum handle.

Minimum order is one each.

**CAT. NO. SBRR**

## CRL Stick Tool Handle

- Comfortable Grip Handle Can Be Used With Either Tapered End or Chisel End Stick Tool
- Provides More Leverage for Scraping



**CAT. NO. CRL216H**



**CAT. NO. CRL216HWS**

The CRL Stick Tool Handle is an innovative tool that allows the user to simply slip in a popular CRL Stick Tool for a comfortable grip. This tool is indispensable to glaziers, caulkers, painters, and auto glass installers.

CAT. NO.	DESCRIPTION
<b>CRL216H</b>	Stick Handle Only
<b>CRL216HWS</b>	Stick Handle With Chisel End Stick Tool

Minimum order: 1 each.

## CRL Sealant Finishing Tools

- Lightweight and Flexible, Simplifies Tooling of Sealants
- Titanium Catalyst Material Won't Stick to Silicone or Other Sealants



**CAT. NO. 55BSS**

Available Worldwide



**CAT. NO. G2410**

Available Only in Australia

These CRL Sealant Finishing Tools are made of a lightweight and flexible titanium catalyst material that will not stick to silicone and other sealants. This makes tooling fresh sealant joints easy, with smoother results and faster clean up. Tools are only 3/16" (5 mm) thick, and measure approximately 3-1/4" x 3-1/2" (83 x 89 mm). Minimum order is one each.

## CRL Urethane Heater Ovens

- Preheats Urethane to Desired Working Temperature in One Hour
- Available in 120V AC or 12V DC Models
- One Hour Heat Cycle
- Two or Six Cartridge Capacity

CRL Urethane Heater Ovens are designed to warm heated urethanes to the ideal application temperature of 185°F (85°C) within one hour. The two-hole or six-hole design allows you to heat a sufficient amount of material for a single or multiple windshield replacements.

CAT. NO.	DESCRIPTION	CAPACITY
E9007	12V DC Oven	2 Cartridges
E9006	120V AC Oven	2 Cartridges
E9011	120V AC Oven	6 Cartridges

Minimum order: 1 each.



Two Cartridge Oven



Six Cartridge Oven

## CRL Compact Heater Box

- Heats Caulking to 104°F (40°C)
- Holds Cartridges or Sausages
- Works On Your Vehicle's 12V DC Power or Optional 110V AC Adapter



This Compact Heater Box plugs into any 12V DC lighter outlet in your truck or car, or with the optional AC adapter (Cat. No. PAC15) plugs into any 110V AC power outlet. Factory set thermostat heats interior to 100° - 104°F (38° - 40°C). Use to keep caulking cartridges or sausages warm before gunning in cold temperatures. Warm sealants gun easier and cure faster than cold sealants. Lightweight and portable, this chest has a high impact polypropylene case and lid with smooth corners and edges, and is super insulated to stabilize interior temperatures with minimal (approximately 2.5 AMP) power drain.

External dimensions: 8-1/2" W x 16" H x 17-1/2" L (216 x 406 x 445 mm). Capacity: Holds 23 standard cartridges, or 18 sausages (20 Fl. Oz. [600 ml]). Includes one 10 foot (3 m) power cord.

## CRL Portable Heater Box

- Heats Caulking to 135°F (57°C)
- Holds Cartridges, Sausages or Pail
- Works On Your Vehicle's 12V DC Power or Optional 110V AC Adapter



This large capacity Portable Heater Box plugs into any 12V DC lighter outlet in your truck or car, or with the optional AC adapter (Cat. No. PAC15) plugs into any 110V AC power outlet. Factory set thermostat heats interior to approximately 135°F (57°C). Use to keep caulking cartridges, sausages or a two-gallon pail warm before gunning in cold temperatures. Warm sealants gun easier and cure faster than cold sealants. Lightweight and portable, this chest has a high impact polypropylene case and lid with smooth corners and edges and is super insulated to stabilize interior temperatures with minimal (approximately 2.5 AMP) power drain.

External dimensions: 16" D x 16" H x 21" L (406 x 406 x 533 mm). Capacity: Holds 34 standard cartridges, 42 sausages (20 Fl. Oz. [600ml]), or one pail (2 gal. [7.5l]). Includes one 10 foot (3 m) power cord.

CAT. NO.	DESCRIPTION
P20S	Compact Heater Box
PAC15	110V AC to 12V DC Converter

Minimum order: 1 each.



CAT. NO. PAC15

CAT. NO.	DESCRIPTION
P75	Portable Heater Box
PAC15	110V AC to 12V DC Converter

Minimum order: 1 each.



## CRL E.Z.D. Glazer De-Glazing Tool

- Aids in the De-Glazing of Glass Installed With Silicone, Foam Tapes, Butyl Tapes, and Other Flexible Materials
- Blade Lays Flat on the Glass and Slides Into the Glazing Pocket
- Extremely Simple to Use

The CRL E.Z.D. Glazer De-Glazing Tool is a real time-saver. This simple-to-use tool is designed to aid in the de-glazing of glass bedded into materials commonly used in the window industry, including silicone, foam or butyl tapes, and other materials engineered to remain flexible throughout their service life (not recommended for use with glazing putty or other materials that harden over time). The EZ1010 goes to work when you lay the cutting blade flat on the glass surface and slide it into the glazing pocket. The glazing material is separated from the glass as you roll the tool along the entire length of the pocket. For tight fits you can facilitate the cutting process by adding soapy water or a light lubricant (Cat. No. SLK4GL) to the blade. A built-in hand guard lets you work right next to the glass for good leverage and a deep cut when needed. The E.Z.D. Glazer is simple, effective and priced right.



CAT. NO.	DESCRIPTION
EZ1010	E.Z.D. Glazer De-Glazing Tool
EZ1022	Replacement Blade-Threaded
EZ10G	Replacement Hand Guard

Minimum order: 1 each.

## CRL Window De-Glazing Tool

- Provides Extra Leverage to Remove Glass Safely and Easily
- Extremely Durable All-Aluminum Construction



The CRL WT2000 Window Deglazing Tool is designed for the safe and easy removal of glass lites from their frames. This tool offers you advantages over manual methods because the large handle allows a positive two-hand grip for extra leverage, and the heat treated blade cuts through the toughest of sealants. The WT2000 has a three-position handle for easy access to windows at almost any angle or height.

All parts of the WT2000 are replaceable, including the heavy-duty aluminum handle. The blades are sharpened to a razor's edge, and heat treated for strength and longevity. The WT2000 comes complete with handle and one each left hand Cat. No. WT2002 and one each right hand Cat. No. WT2001 Blades.



CAT. NO. WT2000



CAT. NO. WT2001



CAT. NO. WT2002

CAT. NO.	DESCRIPTION
WT2000	Window De-Glazing Tool
WT2001	Right Replacement Blade
WT2002	Left Replacement Blade
WT2003	Handle Only for WT2000

Minimum order: 1 each.

# CRL SEALANT REMOVAL TOOLS

For Pricing Visit [crlaurence.com](http://crlaurence.com) or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

## CRL Multi-Function Tool

- Multiple Use Tool With Variable Speed Oscillating Head
- Perfect for Hack-Outs, Glass Sanding, Edging, Sealant Cut-Outs, and More
- Double Insulated and UL Approved

The CRL MFT1 Multi-Function Tool is perfect for sealant removal and hack-out projects. Cuts insulating glass units apart with ease and even removes hardened glazing putty. The variable speed head oscillates at 11,000 to 22,000 oscillations per minute. Blades can be locked down at any angle to help with access to tight locations and to promote comfort during use. Switch to the hook-loop sanding backer pad and the MFT1 becomes a very effective glass edge seaming tool. The Kit comes complete with the double insulated Multi-Function Tool, a plastic storage case, five assorted blades, a triangle backer pad, and a blade wrench.

**NOTE:** Grinding Triangles are sold separately.

CAT. NO.	DESCRIPTION
MFT1	110V Multi Function Tool
MFT1AU	240V Multi Function Tool w/AU Plug
MFT1EU	220V Multi Function Tool w/EU Plug
MFTFSB	Flexible Scraper Blade
MFTHCB	1" (25 mm) Hi-Carbon Steel Saw Blade
MFTHSB	3-1/8" (79 mm) Segmented Saw Blade
MFTRCB	Carbide Coated Recess Saw Blade
MFTSDB	Straight Saw Blade
MFTTSD	Triangle Backer Pad
MFT180X	80X Glass Grinding Triangles 50/BX
MFT1120X	120X Glass Grinding Triangles 50/BX
MFT1220X	220X Glass Grinding Triangles 50/BX

Minimum order: 1 each for tool and accessories; 50 each for grinding triangles.



**new**



Grinding Triangles



**MFTFSB**  
Flexible Scraper  
Blade



**MFTHCB**  
1" (25 mm)  
Hi-Carbon Steel  
Saw Blade



**MFTHSB**  
3-1/8" (79 mm)  
Segmented Saw  
Blade



**MFTRCB**  
Carbide Coated  
Recess Saw Blade



**MFTSDB**  
Straight Saw  
Blade



**MFTTSD**  
Triangle Backer  
Pad

## CRL Wildcat Sealant Cutter and Putty Remover



- Uses 6.3 cfm, 75-90 psi Air Supply
- Oscillates Up to 20,000 Times Per Minute

The CRL Wildcat Pneumatic Caulking-Sealant Cutter and Putty Remover quickly cuts out old sealant from expansion joints and chips away hardened putty from metal sash. The variable speed trigger allows the cutting blades to oscillate up to 20,000 times per minute for virtually effortless cutting and putty removal.

The Kit includes: the Wildcat Pneumatic Tool; two each Caulk Cutting, Sealant Cutting, and Putty Removal Blades; Sharpening Stone, Blade Wrench, and a molded Carrying Case with Tote Tray. The Wildcat Tool may also be used with our variety of automotive blades for cutting out windshields, sidelites, and backlites.

Minimum order is one each.

CAT. NO. AK40

## CRL Stop Mold Puller



- Simple and Easy



- Reduces Your Chance of Breaking Glass While Pulling Stop Molds

The CRL Stop Mold Puller is used to remove stop molds or snap-on sash. It works on both door and tube stops, and makes removing window units easy. The rubber-lined pad will not damage metal extrusions. A reliable and inexpensive tool every glazier should own. Minimum order is one each.

CAT. NO. SMP200



**C.R. LAURENCE COMPANY**

[crlaurence.com](http://crlaurence.com) | [usalum.com](http://usalum.com)

582K | [crlaurence.ca](http://crlaurence.ca) [crlaurence.com.au](http://crlaurence.com.au) [crlaurence.co.uk](http://crlaurence.co.uk) [crlaurence.de](http://crlaurence.de) [crlaurence.eu](http://crlaurence.eu)

## CRL FEIN® SuperCut Sealant Cutter Knife Kit



- Removes Old, Hardened Putty Quickly and Easily
- Variable Speed Blade Oscillates 11,000 to 18,500 Times Per Minute
- Lightweight and Easy to Maneuver
- Powerful 120V AC 3.3 AMP Motor

CAT. NO. FK20618  
FEIN® SuperCut Sealant Cutter Knife Kit



The CRL FEIN® Cutter uses its oscillating blade to cut cured sealant and caulking quickly with a minimum of effort. This reliable electric tool is double-insulated for operator safety. The oscillation on this tool is simply a short back and forth stroke of the cutting blade, one degree to each side, at a frequency of up to 18,500 strokes per minute. Another important advantage is that the optional diamond-tipped blades can be used to cut through marble and mortar joints, while keeping dust formation to a minimum. The CRL FEIN® Sealant Cutter features an electronic speed control to keep cutting speed constant, even under load, so you can select the best cutting speed for every application. The gears are designed for continuous operation, and run in an oil bath. Thanks to a twelve-sided mount, cutting blades can be adjusted to any position. This kit includes a CRL FEIN® Cutter Tool, a set of blades for removing flexible sealants: five Cat. No. FKB17015 and one Cat. No. FKB16011, and a Blade Removal Tool, all packed in a metal Carrying Case. Minimum order is one each.

## Optional Blades for FEIN® SuperCut Knife



### Diamond Blade

Diamond coated blade for cutting out marble and mortar joints, and making cuts in plaster walls. 3-1/8" (70 mm) diameter. Minimum order is one each.



CAT. NO. FKB10401



### Mushroom Blade

Mushroom shaped blade for separating panes of insulating glass. Also for cutting silicone, soft putty, and elastic joint sealants. Minimum order is one each.



CAT. NO. FKB128



### Caulking Blade

Flat blade for removing material while working on flush surfaces. Five each included in FK20618 Kit. Minimum order is one each.



CAT. NO. FKB17015



### Offset "T" Blade

Segment saw blade (offset), for removing insulating glass installed on a putty bed. Minimum order is one each.



CAT. NO. 2000166

### Sealant Blade

Straight, elongated blade for removing flexible sealing compounds in extremely deep joints. One each included in FK20618 Kit. Minimum order is one each.



CAT. NO. FKB16011

## CRL Makita® Power Scraper Hackout Gun



- Excellent for Hackouts of Hardened Putty and Sealants
- Powerful Variable Speed 5 AMP Motor Produces 0 to 3,200 Air-Cushioned Blows Per Minute
- Complete With Three Chisel Tips

The Makita® Power Scraper Hackout Gun has a powerful 5 AMP motor that will tackle even the toughest putty or sealant removal job. Also ideal for cleaning out old mortar, removing tile, concrete scale, and weld splatter. Double insulated motor delivers from 0 to 3,200 blows per minute for light scraping, chiseling, and chipping. Excellent for hackouts of hardened putty and sealants.

FEIN is a registered trademark of C. & E. FEIN GmbH, LLC.  
Makita is a registered trademark of Makita Corporation.



CAT. NO.	DESCRIPTION
HK1810	Makita® Power Scraper Hackout Gun
7982645	Replacement 2" (51 mm) Scaling Chisel*
7982653	Replacement 1-3/16" (30 mm) Scaling Chisel*
7982661	Replacement Bull Point Chisel*

Minimum order: 1 each. \*Included in kit.



# CRL SEALANT REMOVAL TOOLS

For Pricing Visit [crlaurence.com](http://crlaurence.com) or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

## CRL Pipe Handle Cut-Out Knife



18" Xtra Long Knife

13" Standard Knife



Old Style Blade Plate

New Style Blade Plate

### • Our Most Popular Knives

### • Available in Two Lengths

The round, cast aluminum handle of our most popular Long Knife is easy to grip, and utility knife blades change out in just seconds. Tool length can be extended by adding a length of standard conduit pipe. Extra blades can be stored in the handle. Uses either 1992C or 1991C Utility Knife Blades, or 1993X10 Extra Long Utility Knife Blades. The blade plate and screw are also replaceable.

CAT. NO.	DESCRIPTION
PK19	Standard 13" (330 mm) Pipe Handle Knife
PK19XL	Xtra Long 18" (457 mm) Pipe Handle Knife
PK19PS	Old Style Blade Plate Replacement
PK19NS	New Style Blade Plate Replacement

Minimum order: 1 each.

## CRL Sur-Grip 18" Long Knife



### • Foam Grip for Comfort

### • Painted Steel Shaft

The CRL Sur-Grip 18" Long Knife offers you comfort with control. The 18" (457 mm) length is perfect for reaching those overhead areas for easy cut-outs. The soft, urethane foam grip provides a positive grasp of the tool, which relates to better control for safer cutting action. It features quality construction throughout, with a powder-coated, baked-on black crinkle painted steel shaft attached to painted steel tubing. Uses either 1992C or 1991C Utility Knife Blades or 1993X10 Extra Long Utility Knife Blades. Minimum order is one each.

CAT. NO. HT531

## CRL 24" Long Knife



### • Rigid Flat Stock Aluminum With Molded Grip

The CRL 24" (610 mm) Long Knife features rigid 1" (25 mm) flat stock aluminum construction, and is finished with a powder-coated, baked-on black crinkle paint that provides a better gripping surface than unfinished aluminum. Uses either 1992C or 1991C Utility Knife Blades, or 1993X10 Extra Long Utility Knife Blades. Minimum order is one each.

CAT. NO. HT532

## CRL Utility Knife Blades

### • For Use in Virtually All Utility and Long Knives



Extra Long

Exposed cutting edge of 2-1/4" (57 mm), more than double regular utility knife blades

.025" (.64 MM) EXTRA LONG BLADE

CAT. NO.	DESCRIPTION
1993X10	10 Blade Pack

Minimum order: 1 pack.



Extra Long Serrated

Ideal for tough cutting applications, like automotive urethanes

.025" (.64 MM) EXTRA LONG SERRATED BLADE

CAT. NO.	DESCRIPTION
SB418	10 Blade Pack

Minimum order: 1 pack.

### • Our Best Seller



Standard Blade

.018" (.46 MM) STANDARD BLADE

CAT. NO.	DESCRIPTION
1991C	100 Blade Dispenser

Minimum order: 1 box.



100 Standard Blade Dispenser (20 5-Packs)



Heavy-Duty Blade

.025" (.64 MM) HEAVY-DUTY BLADE

CAT. NO.	DESCRIPTION
1992C	100 Blade Dispenser
1992X10	10 Blade Dispenser

Minimum order: 1 box 1992C; 1 pack 1992X10.



10 Blade Dispenser



100 Blade Slide-Out Dispenser



C.R. LAURENCE COMPANY

[crlaurence.com](http://crlaurence.com) | [usalum.com](http://usalum.com)

584K | [crlaurence.ca](http://crlaurence.ca) [crlaurence.com.au](http://crlaurence.com.au) [crlaurence.co.uk](http://crlaurence.co.uk) [crlaurence.de](http://crlaurence.de) [crlaurence.eu](http://crlaurence.eu)



## CRL Basic Insulating Glass Manual

- Everything You Need to Know About Building Your Own Insulating Glass Units
- Explains What is Best for Your Application
- Easy to Follow Step-by-Step Instructions for First Time Fabricators

This CRL Basic Insulating Glass Manual is specifically designed to help glass professionals become more familiar with the materials necessary for Insulating Glass fabrication. It takes you step-by-step through all methods of Insulating Glass production: single seal, dual seal, silicone, butyl, and polysulfide. The GM15 shows you different glazing techniques, including glazing adapters for retrofit work. The Manual also describes testing procedures you can use in your shop, and there is a section on Insulating Glass terms and definitions.

Since rising energy costs have created a huge market for Insulating Glass, you can use the Manual to expand your knowledge, and help your customers get a better grasp of which of the many fine CRL Insulating Glass products would be best for their needs.

For any questions regarding Insulating Glass equipment, supplies, or even for a quote on setting up a whole new IG line, please contact CRL Door and Window Department at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International. Ask for Ext. 7520. You can send e-mail from the [crlaurence.com](http://crlaurence.com) home page. Click on Contact Us, then click on Technical Sales.

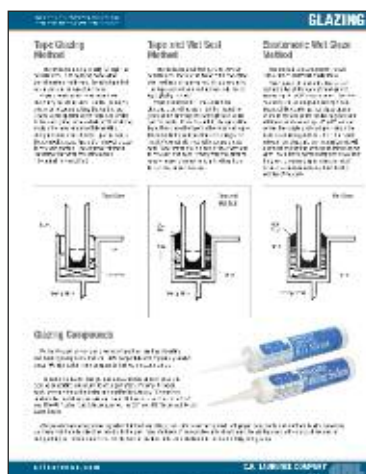
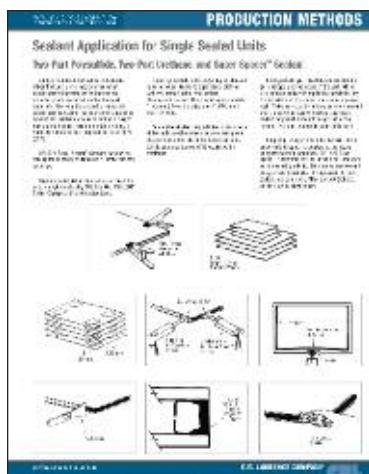


Minimum order is one each.

CAT. NO. GM15



- Easy to Read and Understand Format
- Includes Photographs, Diagrams, Terms and Definitions, Techniques, Procedures, and Products to Help Fabricate Top Quality Insulating Glass Units
- Lists and Explains Required Materials, Production Methods, Glazing Guidelines, and Ordering Information



## Fabricating Quality Insulating Glass Units is Simple...If You Know How

The fabrication of quality Insulating Glass units is not a mysterious process that only a few fabricators can achieve. Over the years CRL has introduced hundreds of our accounts to the profitable business of installing new and retrofit Insulating Glass units.

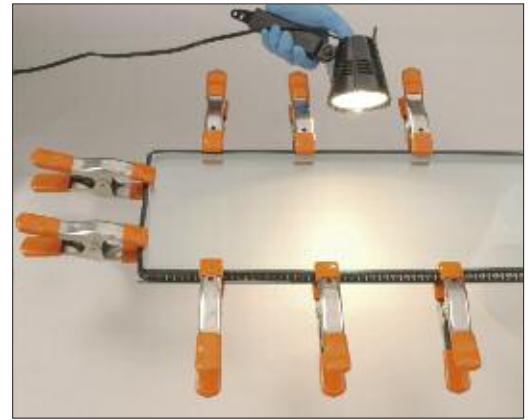
Once you discover the simplicity of fabricating Insulating Glass units you will agree that this is a part of the energy conservation business that you can be part of with little prior experience and only a moderate investment in supplies and tools.

And CRL can help you at every step, from planning your workstations, stocking your supplies, and making sales presentations to prospective customers. We have a complete program to make Insulating Glass part of your successful business.

## Increased Energy Awareness Opens New Opportunities

The knowledgeable homeowner is now more aware than ever of the rising costs of heating and cooling their home. And they know that it's not likely to ever get any easier. What they probably don't know is that you can install energy-efficient Insulating Glass units in their home at a cost that will over time be recovered in energy savings.

Get the word out in your community that there's no need for your neighbors to go to a big national firm for Insulating Glass units when your local glass business can provide it at competitive costs. CRL can help you with promotional ad flyers with a space for your imprint. Talk to your CRL Sales Professional about this great way to reach prospective local customers.



## CRL's Insulating Glass Design and Fabrication Assistance

### • Insulating Glass Components and Sealants

The fabrication of quality Insulating Glass units is dependant upon the right materials, and CRL offers only the components and sealants that meet our strict standards. Be assured that the Insulating Glass materials we stock in our network of distribution facilities have been thoroughly tested, and will stand up to even the harshest of environmental conditions. Your reputation, and ours, depends on providing your customers with only the best Insulating Glass units, and that starts with the best materials.



### • Insulating Glass Production Line Design

To profitably fabricate Insulating Glass units in quantity you need the right tools and equipment. If you are planning to fabricate them in production-level quantities working with the right tools and shop equipment will make the difference between a profitable unit and one that costs more than you anticipated.

Contact Technical Sales to discuss your plans and we will work with you to design a new production line or upgrade your existing one. Call (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International. Ask for the Door and Window Department at Ext. 7520.



### • Insulating Glass Consultation Service

The best part of gearing up to fabricate Insulating Glass units is that you don't have to go it alone. CRL has decades of experience in the field of Insulating Glass, and trained Technical Sales personnel to provide assistance in selecting the fabrication methods, supplies, and equipment that will best suit your needs and fit your budget.

Contact them at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International. Ask for the Door and Window Department at Ext. 7520. You can also send e-mail from the home page of [crlaurence.com](http://crlaurence.com). Click on Contact Us, and then click on Technical Sales.





## Selling the Benefits of Insulating Glass to Your Customers

### • Making a Persuasive Presentation

You know your Insulating Glass units are good, but how do you convince your customers? One way is to use precision test meters that show the quality of the units you can provide them, and the proven benefits of installing energy efficient Insulating Glass units. CRL has high tech yet easy to use and understand sales aids that you can use for showroom or in home demonstrations. See pages 618K to 624K.



## Selecting the Fabrication Method That's Right for You

### • Fabricating Within Your Capabilities

Now that you've made the decision to fabricate Insulating Glass units you must decide what type of units would be within your capabilities. Whether you start out using traditional single-seal or double-seal aluminum spacers or an alternative spacer system, such as Super Spacer or Duraseal, we offer the best selection, along with all of the accessories needed to build quality, ready-to-install units. There are even Starter Kits that feature a complete assortment of products you will need to build your first units. See pages 588K to 598K.



## Fabrication and Installation Supplies and Equipment

### • Investing to Assure Profitability

Just because you can make quality Insulating Glass units doesn't mean you're assured a profitable outcome. Assuring profitability often means investing in tools and equipment that will speed up the process, or make it less labor-intensive. We offer a full range of these items, from simple hand tools to large fabrication and inspection tables. All have been CRL tested for reliability and efficiency. See pages 602K to 603K, 626K. For additional information on our Insulating Glass Machinery visit [crlaurence.com](http://crlaurence.com).



## Fabricating Insulating Glass Units for Long Term Performance and Reliability

### • Assuring Your Units Will Perform for Years

Following precise directions and using good materials is the best way to assure that the Insulating Glass units you fabricate will be of lasting value to your customers. Our assortment of spacers, desiccants, sealants, glazing compounds, and cleaners can take you from start to finish, and make it easy for you to include the sale and installation of Insulating Glass a valued portion of your successful business. See pages 588K to 601K, 604K to 612K.



## We Make it Easy to Get Started With Our Insulating Glass Starter Kits

- Save Money and Time by Building Your Own Insulating Glass Units
- Eight Kits to Choose From - Basic to Deluxe
- Kits Available for Single Seal and Dual Seal Metal Spacers, Super Spacer®, and Duralite®
- Produce Units When Your Customers Need Them
- No Long Waits for Custom or Odd Shape Windows
- A Variety of Sealing Systems - Hot Melt Butyl, One-Part and Two-Part Polyurethanes, Two-Part Polysulfide, Silicone Sealant, and Duralite®

### CRL Deluxe Insulating Glass Hot Melt Starter Kit

- An Easy Way to Start Producing Quality Insulating Glass Units
- Kit Comes With Everything Needed for Production of Insulating Glass Units (Except the Glass)
- The SS96 is Our Most Popular Sealant Extruder



CAT. NO. D1GK7

#### KIT NO. D1GK7 INCLUDES:

CAT. NO.	DESCRIPTION	QUANTITY
SS96	Hot Melt Butyl Extruder Machine 110V AC	1 Each
CRL30703	Hot Melt Butyl Cakes	96 lbs (43.5 kg)
MSD50B	55 Pound (25 kg) Box Molecular Sieve	1 Box
3935	1/4" (6.3 mm) Single Seal Aluminum Spacer	50 each 12'8" Lengths
3937	3/8" (9.5 mm) Single Seal Aluminum Spacer	25 each 12'8" Lengths
3939	1/2" (12.7 mm) Single Seal Aluminum Spacer	50 each 12'8" Lengths
6265	1/4" (6.3 mm) Single Seal Spacer Corners	200 Each
6267	3/8" (9.5 mm) Single Seal Spacer Corners	100 Each
6269	1/2" (12.7 mm) Single Seal Spacer Corners	200 Each
1550	Lint Free Wipes	1 Case (900 Wipes)
695	Concentrated Glass Cleaner	1 Gallon (3.785 l)
DB21	Plastic Spray Bottles	2 Each
1BK990	Hot Melt Butyl Trim Knife 110V AC	1 Each
BN4	1/4" (6.3 mm) Brass Nozzle	1 Each
BN6	3/8" (9.5 mm) Brass Nozzle	1 Each
BN8	1/2" (12.7 mm) Brass Nozzle	1 Each
NG171	Lint Free Gloves (Large)	1 Dozen Pairs
321W	White Siliconized Acrylic Latex Glazing Sealant	10 Cartridges
321GRY	Gray Siliconized Acrylic Latex Glazing Sealant	10 Cartridges
JC3202HT	Plastic Tipped Handy Clamps	12 Each
GM15	Basic Insulating Glass Manual	1 Each

Minimum order: 1 each. Must ship common carrier only.

This CRL Deluxe Insulating Glass Hot Melt Starter Kit comes with everything needed (except the glass) to produce quality Insulating Glass units. This Kit is ideal for anything from limited production to job site fabrication. Using our Hot Melt Butyl Dispensing Machine with standard Aluminum Spacers and Corners, quality Insulating Glass units can be produced within minutes of warming up the machine.

Aluminum Spacers (see pages 600K and 606K) come in widths from 3/16" (4.8 mm) to 3/4" (19 mm), giving you the flexibility to fabricate Insulating Glass units in a variety of widths. This Kit comes with Spacers in the three popular widths, but others can be used.

The SS96 Hot Melt Butyl Extruder Machine is our best-selling hot melt gunning system. It dispenses our CRL30703 Hot Melt Butyl Cakes (see page 604K) to create a reliable edge seal. Brass Tip Nozzles apply the sealant evenly to assure uniformity and reduce waste. **NOTE:** For a 240V Australia only Hot Melt Butyl Extruder Machine order Cat. No. AU96.

For more information, contact our Door and Window Department, or go online at [crlaurence.com](http://crlaurence.com).

Super Spacer and Duralite are registered trademarks of Quanex Building Products Corporation.



## CRL Silicone Foam and Metal Spacer Insulating Glass Sealant Starter Kit With Super Spacer®

- Includes Everything Needed to Fabricate High Quality Insulating Glass Units
- Comes Complete With Over 300 Feet (91 m) of Super Spacer®
- Easily Adapts to All Shapes and Sizes of Glass



CAT. NO. S1GK877

KIT NO. S1GK877 INCLUDES:

CAT. NO.	DESCRIPTION	QUANTITY
877	Silicone Foam and Metal Spacer I.G. Sealant	12 Cartridges
SS1466	1/4" (6.3 mm) Super Spacer® 66' (20 m) roll	2 Rolls
SS3866	3/8" (9.5 mm) Super Spacer® 66' (20 m) roll	1 Roll
SS1266	1/2" (12.7 mm) Super Spacer® 66' (20 m) roll	2 Rolls
SSHN	Super Spacer® Hand Notcher	1 Each
1550	Lint Free Wipes	1 Case (900 Wipes)
695	Concentrated Glass Cleaner	1 Gallon (3.785 l)
DB21	Plastic Spray Bottles	2 Each
SGT14	1/4" (6.3 mm) Sealant Guide	1 Each
SGT38	3/8" (9.5 mm) Sealant Guide	1 Each
SGT12	1/2" (12.7 mm) Sealant Guide	1 Each
GM15	Basic Insulating Glass Manual	1 Each

Minimum order: 1 each.

### • Our Most Popular Starter Kit

This CRL Silicone Foam and Metal Spacer Insulating Glass Sealant Starter Kit with Super Spacer® contains everything needed to produce condensation-free perimeter edges which substantially reduces overall window heat loss. Super Spacer® allows you to build Insulating Glass units in shapes not permitted by metal spacers. The silicone foam contains a high quantity (40% by weight) of 3A molecular sieve desiccant, and the permeability of the foam allows for fast moisture pick up. Our 877 Sealant forms an airtight seal and is compatible with units fabricated with Super Spacer®.

## CRL Single Seal, Two-Part Polysulfide Insulating Glass Starter Kit



CAT. NO. S1GK550

This CRL Single Seal, Two-Part Polysulfide Insulating Glass Starter Kit is one of the most economical ways to start fabricating Insulating Glass units. Simply insert corners into the spacer, fill spacers with molecular sieve, add your glass, clamp together, apply the CRL Two-Part Polysulfide, let cure overnight and you're ready for installation. With this system any demand can be responded to immediately; simply measure, fabricate, allow the sealant to cure, and install the next day.

Super Spacer is a registered trademark of Quanex Building Products Corporation.

- Apply Two-Part Polysulfide With Brush, Gun, or Trowel
- Hardens as it Cures
- Easy to Assemble and Use



KIT NO. S1GK550 INCLUDES:

CAT. NO.	DESCRIPTION	QUANTITY
N400G15	Two-Part Polysulfide Sealant (1.5 Gallon Pail)	4 Pails
MSD5	5 Pound (2.2 kg) Can Molecular Sieve	2 Cans
3935	1/4" (6.3 mm) Single Seal Aluminum Spacer	50 Each 12'8" Lengths
3937	3/8" (9.5 mm) Single Seal Aluminum Spacer	25 Each 12'8" Lengths
3939	1/2" (12.7 mm) Single Seal Aluminum Spacer	50 Each 12'8" Lengths
6265	1/4" (6.3 mm) Single Seal Spacer Corners	200 Each
6267	3/8" (9.5 mm) Single Seal Spacer Corners	100 Each
6269	1/2" (12.7 mm) Single Seal Spacer Corners	200 Each
1550	Lint Free Wipes	1 Case (900 Wipes)
695	Concentrated Glass Cleaner	1 Gallon (3.785 l)
DB21	Plastic Spray Bottles	2 Each
NG171	Lint Free Gloves (Large)	1 Dozen Pairs
321W	White Siliconized Acrylic Latex Glazing Sealant	10 Cartridges
321GRY	Gray Siliconized Acrylic Latex Glazing Sealant	10 Cartridges
JC3202HT	Plastic Tipped Handy Clamps	12 Each
GM15	Basic Insulating Glass Manual	1 Each

Minimum order: 1 each. Must ship common carrier only.

## CRL Deluxe Super Spacer® Insulating Glass Starter Kit

- A Great Way to Get Started With "Warm Edge" Technology
- Easily Adapts to All Shapes and Sizes of Glass
- Great for Art Glass Panels

This state-of-the-art kit comes with everything you need (except the glass) to build Insulating Glass units, whether they are square, rectangular, or even circular, all without the use of a spacer bending machine.

Super Spacer® is one of the best materials to use in manufacturing Insulating Glass units because of its superior insulating foam. This foam essentially eliminates perimeter edge condensation and substantially reduces overall window heat loss. This flexible spacer also accommodates glass bowing and thermal movement. Excellent sound insulation properties add to the list of Super Spacer's attributes. Finally, there is no adsorbent to add because there is a high quantity of 3A molecular sieve already inside of Super Spacer's quality silicone foam.

The Kit also comes with a CRL SS96 Hot Melt Butyl Dispensing Machine, which is the fastest way to produce Insulating Glass units. We include 96 pounds of CRL30703 Butyl, which is the only butyl recommended for use in this machine. The SS96 features an all-mechanical system which doesn't use any air, so there is less down time and more production. The 8' (2.4 m) dispensing hose heats from 350-450°F (177-232°C), delivering the butyl at optimum temperature.

**NOTE:** For a 240V Australia only Hot Melt Butyl Extruder Machine order Cat. No. AU96.



### KIT NO. D1GK88 INCLUDES:

CAT. NO. D1GK88

CAT. NO.	DESCRIPTION	QUANTITY
SS96	Hot Melt Butyl Extruder Machine 110V AC	1 Each
CRL30703	Hot Melt Butyl Cakes	96 lbs. (43.5 kg)
SS1466	1/4" (6.3 mm) Super Spacer® 66' (20 m) roll	8 Rolls
SS3866	3/8" (9.5 mm) Super Spacer® 66' (20 m) roll	4 Rolls
SS1266	1/2" (12.7 mm) Super Spacer® 66' (20 m) roll	8 Rolls
SSHN	Super Spacer® Hand Notcher	1 Each
1550	Lint Free Wipes	1 Case (900 Wipes)
695	Concentrated Glass Cleaner	1 Gallon (3.785 l)
DB21	Plastic Spray Bottles	2 Each
1BK990	Hot Melt Butyl Trim Knife 110V AC	1 Each
BN4	1/4" (6.3 mm) Brass Nozzle	1 Each
BN6	3/8" (9.5 mm) Brass Nozzle	1 Each
BN8	1/2" (12.7 mm) Brass Nozzle	1 Each
NG171	Lint Free Gloves (Large)	1 Dozen Pairs
GM15	Basic Insulating Glass Manual	1 Each

Minimum order: 1 each. Must ship common carrier only.

## CRL "Hardman" Gun and Hot Melt Butyl Insulating Glass Starter Kit

- Hardman Hot Melt Butyl Gun is Portable, and Lets You Use Only What You Need

This Kit is perfect for the glass shop that needs to produce Insulating Glass units on an occasional "as needed" basis, or for someone who needs to do their work in different locations from time to time. The CRL "Hardman" Insulating Glass Hot Melt Butyl Starter Kit is also a great way to start a small production system for fabricating Insulating Glass units.



### SINGLE SEAL WITH HOT MELT BUTYL ROPE AND HARDMAN GUN

### KIT NO. D1GK913 INCLUDES:

CAT. NO.	DESCRIPTION	QUANTITY	CAT. NO.	DESCRIPTION	QUANTITY
HEG522	"Hardman" Extruder Gun 110V AC	1 Each	695	Concentrated Glass Cleaner	1 Gallon (3.785 l)
N415	Hot Melt Butyl Rope	8 Rolls	DB21	Plastic Spray Bottles	2 Each
RH522	Hot Melt Butyl Rope Holder	1 Each	E9133	Brass Nipple	1 Each
MSD5	5 Pound (2.2 kg) Can Molecular Sieve	2 Cans	BN4	1/4" (6.3 mm) Brass Nozzle	1 Each
3935	1/4" (6.3 mm) Single Seal Aluminum Spacer	50 Each 12'8" Lengths	BN6	3/8" (9.5 mm) Brass Nozzle	1 Each
3937	3/8" (9.5 mm) Single Seal Aluminum Spacer	25 Each 12'8" Lengths	BN8	1/2" (12.7 mm) Brass Nozzle	1 Each
3939	1/2" (12.7 mm) Single Seal Aluminum Spacer	50 Each 12'8" Lengths	NG171	Lint-Free Gloves (Large)	1 Dozen Pairs
6265	1/4" (6.3 mm) Single Seal Spacer Corners	200 Each	321W	White Siliconized Acrylic Latex Glazing Sealant	10 Cartridges
6267	3/8" (9.5 mm) Single Seal Spacer Corners	100 Each	321GRY	Gray Siliconized Acrylic Latex Glazing Sealant	10 Cartridges
6269	1/2" (12.7 mm) Single Seal Spacer Corners	200 Each	JC3202HT	Plastic Tipped Handy Clamps	12 Each
1550	Lint Free Wipes	1 Case (900 Wipes)	GM15	Basic Insulating Glass Manual	1 Each

Minimum order: 1 each. Must ship common carrier only.

Super Spacer is a registered trademark of Quanex Building Products Corporation.



## CRL Dual Seal Silicone With Polyisobutylene Insulating Glass Starter Kit



CAT. NO. S1GK344

This CRL Dual Seal Insulating Glass Starter Kit has all the components necessary to fabricate Dual Seal Insulating Glass units. Polyisobutylene, a one-part, non-drying, non-hardening ribbon material with exceptionally low vapor transmission and non-fogging characteristics, forms the primary seal. Insulating Glass Silicone (applied with a standard caulking gun), specifically formulated for bonding and sealing Insulating Glass units, makes the secondary seal. The Dual Seal Spacer is grooved on the shoulder, allowing it to accept the Polyisobutylene Tape, while the taper below the shoulder will accept the silicone secondary seal.

- Fabricate Units With Two High Performance Sealants
- Dual Seal Systems Withstand Intense Weather Conditions



### KIT NO. S1GK344 INCLUDES:

CAT. NO.	DESCRIPTION	QUANTITY
2132559	Polyisobutylene Tape	1 Case
9542	Insulating Glass Silicone	48 Cartridges
MSD5	5 Pound (2.2 kg) Can Molecular Sieve	2 Cans
99125	1/4" (6.3 mm) Dual Seal Aluminum Spacer	50 each 12'8" Lengths
99127	3/8" (9.5 mm) Dual Seal Aluminum Spacer	25 each 12'8" Lengths
99129	1/2" (12.7 mm) Dual Seal Aluminum Spacer	50 each 12'8" Lengths
92175	1/4" (6.3 mm) Dual Seal Spacer Corners	200 Each
92177	3/8" (9.5 mm) Dual Seal Spacer Corners	100 Each
92179	1/2" (12.7 mm) Dual Seal Spacer Corners	200 Each
1550	Lint Free Wipes	1 Case (900 Wipes)
695	Concentrated Glass Cleaner	1 Gallon (3.785 l)
DB21	Plastic Spray Bottles	2 Each
NG171	Lint Free Gloves (Large)	1 Dozen Pairs
321W	White Siliconized Acrylic Latex Glazing Sealant	10 Cartridges
321GRY	Gray Siliconized Acrylic Latex Glazing Sealant	10 Cartridges
JC3202HT	Plastic Tipped Handy Clamps	12 Each
GM15	Basic Insulating Glass Manual	1 Each

Minimum order: 1 each. Must ship common carrier only.

## CRL Polyurethane Sealant Insulating Glass Starter Kit With Super Spacer®

- Everything You Need to Fabricate Quality Insulating Glass Units Using Super Spacer®
- Comes Complete With Over 300 Feet (91 m) of Super Spacer®
- Uses Two-Part Polyurethane Sealant



### KIT NO. S1GK600 INCLUDES:

CAT. NO.	DESCRIPTION	QUANTITY
N600G15	Two-Part Polyurethane Sealant 1.5 Gallon Pail	1 Pail
SS1466	1/4" (6.3 mm) Super Spacer® 66' (20 m) roll	2 Rolls
SS3866	3/8" (9.5 mm) Super Spacer® 66' (20 m) roll	1 Rolls
SS1266	1/2" (12.7 mm) Super Spacer® 66' (20 m) roll	2 Rolls
SSHN	Super Spacer® Hand Notcher	1 Each
1550	Lint Free Wipes	1 Case (900 Wipes)
695	Concentrated Glass Cleaner	1 Gallon (3.785 l)
DB21	Plastic Spray Bottles	2 Each
MX40	Sealant Mixer	1 Each
4104	1-1/2" (38 mm) Putty Knife	1 Each
GM15	Basic Insulating Glass Manual	1 Each

Minimum order: 1 each.

Super Spacer is a registered trademark of Quanex Building Products Corporation.



CAT. NO. S1GK600

This CRL Insulating Glass Starter Kit features CRL Super Spacer®, the superior insulating foam that eliminates perimeter edge condensation and substantially reduces overall window heat loss. CRL Super Spacer® allows you to build Insulating Glass units in shapes not permitted by metal spacers. The silicone foam contains a high quantity of 3A molecular sieve desiccant, and the permeability of the foam allows for fast moisture pickup. Our Two-Part Polyurethane Sealant forms an airtight seal, and is compatible with units fabricated with Super Spacer®.

## CRL Insulating Glass Starter Kit With Duralite®

- Includes Everything Needed to Fabricate High Quality Insulating Glass Units
- Comes With 330 Feet (100 m) of Duralite®
- Easily Adapts to All Shapes and Sizes of Glass

This CRL Insulating Glass Starter Kit With Duralite® contains everything needed to produce condensation-free perimeter edges that substantially reduce overall window U-Value. It is a complete package that will get you into the business of producing high-quality Insulating Glass units to meet your customer's demands.

Duralite® allows you to build Insulating Glass units in shapes not permitted by metal spacers. The patented technology incorporates unique materials and a breakthrough in continuous composite manufacturing processes.

This advanced technology offers a higher performance spacer system at a competitive price. Duralite® takes optimum advantage of laminates and adhesives to reduce thermal conductivity while improving surface and corner appearance over other Insulating Glass spacers.



CAT. NO. S1GKDS66

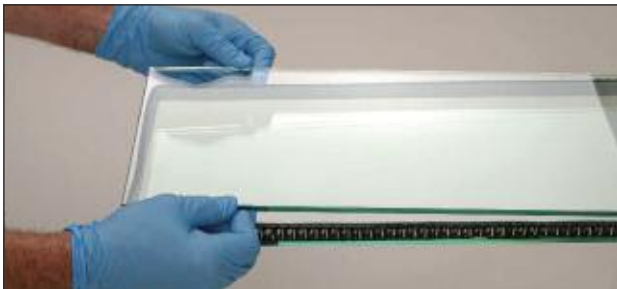
### KIT NO. S1GKDS66 INCLUDES:

CAT. NO.	DESCRIPTION	QUANTITY
DS6614	1/4" (6.3 mm) Duralite® 66' (20.1 m) Roll	2 Rolls
DS6638	3/8" (9.5 mm) Duralite® 66' (20.1 m) Roll	1 Roll
DS6612	1/2" (12.7 mm) Duralite® 66' (20.1 m) Roll	2 Rolls
DSPT1	Duralite® Peak Tool Applicator	1 Each
TL2	Duralite® Quartz Heat Lamp 110V AC	1 Each
1550	Lint Free Shop Wipes (900 per Case)	1 Case
695	Concentrated Glass Cleaner	1 Gallon (3.785 l)
DB21	Plastic Spray Bottles	2 Each
NG171	Lint Free Gloves (Large)	1 Dozen Pairs
JC3202HT	Plastic-Tipped 6" Handy Clamps	24 Each
M3R	Straight Cut Snips	1 Each
GM15	Basic Insulating Glass Manual	1 Each

Minimum order: 1 each.



Apply Duralite® to clean glass surface with DSPT1 Applicator or by hand.

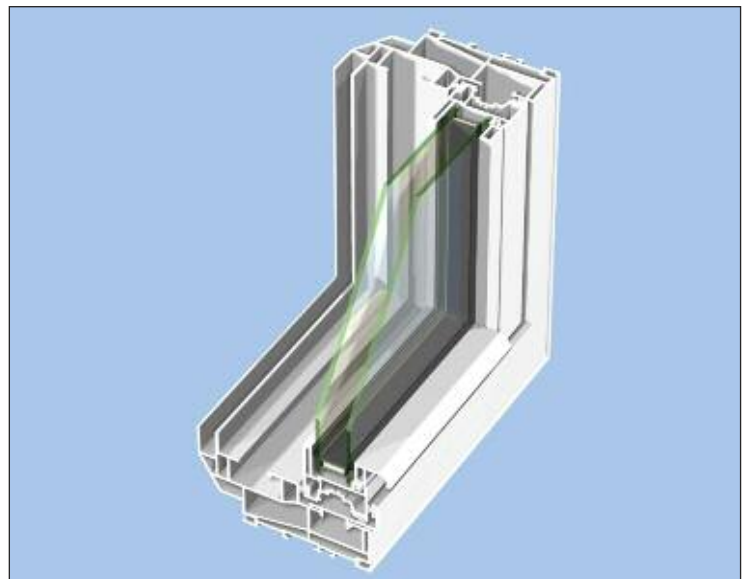


Index second piece of clean glass and press on to Duralite®.



Apply spring clamps or mechanical press with heat lamp to seal the unit.

Duralite is a registered trademark of Quanex Building Products Corporation.





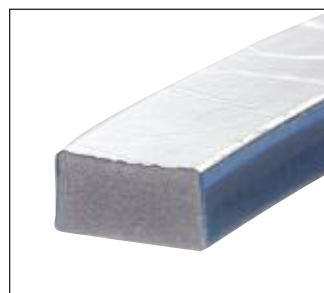
## Fabricating Insulating Glass Units With Alternatives to Aluminum Spacers

**Super Spacer® and Duralite® are the Latest Technology for High Performance Insulating Glass, Offering the Fabricator:**

- **Low Start-Up Costs Because No Special Tools Are Required to Begin Using Either System**
- **Reduced Assembly Times Because There are No Aluminum Spacers to Cut or Fill With Desiccant**
- **Reduced Storage Space Because There are No Long Stock Lengths, Just Convenient Rolls**
- **Flexibility of Design, Since Insulating Glass Units of Any Shape Can Now Be Fabricated**

As buildings become ever-more complex, with radical architecture and the intentions of owners to make their environments more energy-efficient, it's nice to know that you can meet their needs for high performance Insulating Glass units in places where traditional aluminum spacers can't be used. Windows with curved tops or corners that don't meet at 90 degrees are not a design problem when using a spacer system that is flexible, and capable of following their shape.

CRL offers two such spacer systems, Super Spacer® and Duralite®, and on the next few pages you'll discover how both of them can improve your Insulating Glass unit fabrication process, and the ability to accommodate your customer's needs.



Super Spacer® is available  
in nine widths.



Duralite® is available  
in eight widths.

- **Super Spacer® and Duralite® are the Answer to the Problem of Fabricating Insulating Glass Units for Irregularly Shaped Windows**



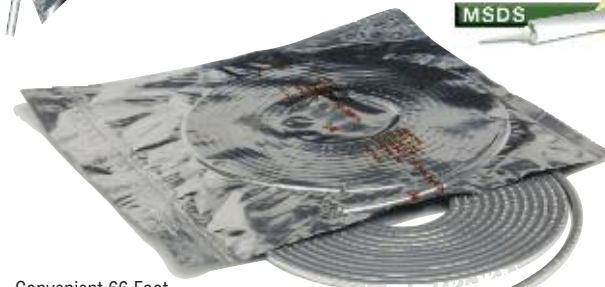
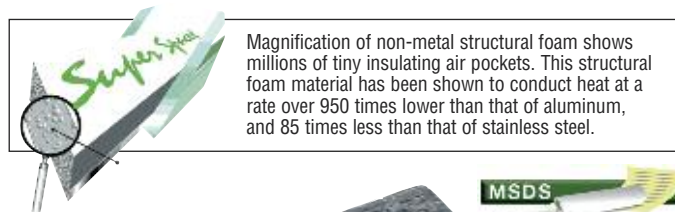
Super Spacer and Duralite are registered trademarks of Quanex Building Products Corporation.

# CRL INSULATING GLASS SUPPLIES

For Pricing Visit [crlaurence.com](http://crlaurence.com) or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

## CRL Edgetech Super Spacer®

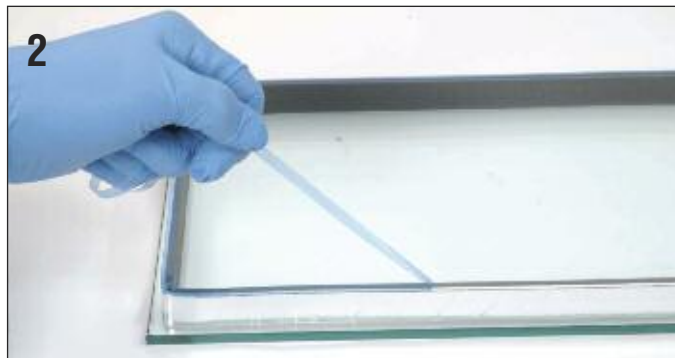
- The Most Versatile Spacer Available
- Allows Simultaneous Production of Regular and Special Shaped Insulating Glass Units
- Save Production Time - No Desiccant Beads to Add or Corner Keys to Assemble
- No Metal Spacer – Dramatically Reduces Condensation
- No Heat Compression Required
- Low Profile Spacer is Only 1/4" (6 mm) Thick
- Multi-Layer Vapor Barrier is Continuous at Corners
- Available in Gray or Black



Convenient 66 Foot (20.1 m) Roll Package



Apply Super Spacer® to clean glass surface with SSHN Hand Notcher or SSAPA Shuttle Applicator as release liner is removed.



Remove second release liner.



Index second piece of clean glass and press on to Super Spacer®.



Apply CRL Hot Melt Butyl or Cat. No. 877 Sealant to seal the unit.

CRL Edgetech Super Spacer® is made from superior insulating silicone foam. The spacer essentially eliminates perimeter edge condensation and substantially reduces overall window heat loss. Because of the unique design features of Super Spacer® there are advantages in using this product for the fabrication of specialized insulating glass designs, including curved and odd shaped units, sound insulating, and triple-glazed units with art glass inserts.

For long-term durability, UV resistant silicone material is used to prevent spacer degradation. The flexible foam spacer accommodates glass bowing and thermal movement, and also helps ensure improved edge seal. The permeability of the foam allows for fast moisture pickup with the 40% desiccant composition. To reduce moisture vapor transmission and inert gas loss, the Super Spacer® is backed by a high performance, multi-layer barrier film.

Rolls are 66' (20.1 m) long. Other colors and bulk rolls are available on special order. **NOTE:** Super Spacer® cannot be used without an edge sealant. We recommend CRL Hot Melt Butyl or CRL 877 Sealant (see page 598K).

Super Spacer is a registered trademark of Quanex Building Products Corporation.

CAT. NO.	COLOR	WIDTH	ROLL LENGTH
<b>SS31666</b>	Gray	3/16" (4.8 mm)	66' (20.1 m)
<b>SS1466</b>	Gray	1/4" (6.3 mm)	66' (20.1 m)
<b>SS51666</b>	Gray	5/16" (7.9 mm)	66' (20.1 m)
<b>SS3866</b>	Gray	3/8" (9.5 mm)	66' (20.1 m)
<b>SS71666</b>	Gray	7/16" (11.1 mm)	66' (20.1 m)
<b>SS1266</b>	Gray	1/2" (12.7 mm)	66' (20.1 m)
<b>SS91666</b>	Gray	9/16" (14.3 mm)	66' (20.1 m)
<b>SS5866</b>	Gray	5/8" (15.9 mm)	66' (20.1 m)
<b>SS3466</b>	Gray	3/4" (19 mm)	66' (20.1 m)
<b>SS1466BL</b>	Black	1/4" (6.3 mm)	66' (20.1 m)
<b>SS3866BL</b>	Black	3/8" (9.5 mm)	66' (20.1 m)
<b>SS1266BL</b>	Black	1/2" (12.7 mm)	66' (20.1 m)
<b>SS91666BL</b>	Black	9/16" (14.3 mm)	66' (20.1 m)
<b>SS5866BL</b>	Black	5/8" (15.9 mm)	66' (20.1 m)
<b>SS3466BL</b>	Black	3/4" (19 mm)	66' (20.1 m)

Minimum order: 1 roll. Colors and sizes can be combined for quantity pricing.



**C.R. LAURENCE COMPANY**

**US ALUMINUM**

**594K**

[crlaurence.ca](http://crlaurence.ca)

[crlaurence.com.au](http://crlaurence.com.au)

[crlaurence.co.uk](http://crlaurence.co.uk)

[crlaurence.de](http://crlaurence.de)

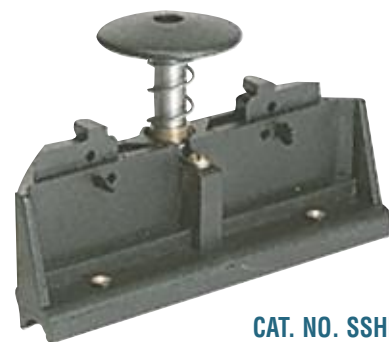
[crlaurence.eu](http://crlaurence.eu)

[crlaurence.com](http://crlaurence.com) | [usalum.com](http://usalum.com)

## CRL Super Spacer® Hand Notcher

- Easy-to-Use Tool Simplifies Corner Notching
- Assures Consistent Placement of Super Spacer®

The CRL Super Spacer® Hand Notcher is designed to speed up the manual application of Super Spacer®. It simplifies corner notching and assures consistent placement of the foam Super Spacer® strip at a distance of 3/16" (4.8 mm) from the glass edge. Can be used with sizes ranging from 1/4" to 3/4" (6.3 to 19 mm) in width. Minimum order is one each.



CAT. NO. SSHN

## CRL Super Spacer® Super Shuttle™ Applicator

- Hand Held Pneumatic Tool Speeds Application of Super Spacer®

The hand held CRL Super Spacer® Super Shuttle™ Applicator makes precision laying, notching, cornering, and splicing a simple one-step process in the manufacture of Insulating Glass units. The Applicator glides on the Super Spacer®, eliminating contact with the glass, which prevents marking of the vision area.

The CRL Super Shuttle ensures straight sightlines, perpendicular to the glass, and is fully adjustable for Super Spacer® sizes of 3/16" to 15/16" (4.8 to 23.8 mm) and set back distances of either 3/16" (4.8 mm) or 1/4" (6.3 mm). Requires 100 cfm to operate. Minimum order is one each.



CAT. NO. SSAPA

## CRL Super Spacer® Groove Tool

- Cuts Groove in Super Spacer® for the Insertion of Leaded Glass Panels

The CRL Super Spacer® Groove Tool allows you to create your own grooved spacer for leaded and stained glass insert panels. By adjusting the centering guide to widths from 1/4" to 1" (6.3 to 25.4 mm) and pulling material across the blade, perfect grooves are quickly made. An adjustment screw on the bottom of the unit adjusts the blade for making either shallow or deep cuts. Two blades are included, and Cat. No. BK1056 Replacement Blades can be ordered separately. Minimum order is one each.



Uncut



Shallow Cut



Deep Cut



CAT. NO. LCSG1

## CRL Bulk Reel Super Spacer® Stand

- Positioned for Speed
- Accommodates Any Bulk Size of Super Spacer®

This CRL Super Spacer® Stand is designed to accommodate any size Super Spacer® in bulk reels. The Stand features a unique base and cover for totally enclosing the Super Spacer®, thereby preserving its quality by keeping it airtight during application. Minimum order is one each.

Optional items for use with the Stand include a two-roll lid and two-roll arm. Contact Technical Sales regarding special order Bulk Roll pricing.

**NOTE:** Not for use with standard 66' (20.1 m) rolls.



CAT. NO. LRS22

## CRL Super Spacer® Seminar DVD

- Demonstrates Proper Use of Super Spacer® and Accessories



This DVD demonstrates proper use of CRL Super Spacer®, showing how to make Insulating Glass units effectively using the product. It also shows different types of sealing methods to use with Super Spacer®. Minimum order is one each.

CAT. NO. DVDSS1



## CRL TruSeal® Duralite®

- Complete Spacer and Sealant in One Tape
- Contains No Metal for Improved Warm Edge Thermal Performance
- EnergySTAR® Labeled Technology
- Improved Condensation Resistance
- Reduced Total Window U-Value
- Superior Argon Gas Retention
- Same Spacer Used for Standard and Specialty Windows

SPEC. DATA

MSDS



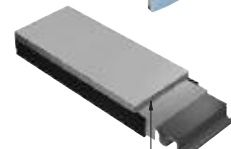
### Spacer Sub-Assembly

A unique multi-component spacer that is bendable yet incompressible and stable



### Bondline Adhesive

Proprietary high performance adhesive providing exceptional resistance to gas and moisture vapor transmission

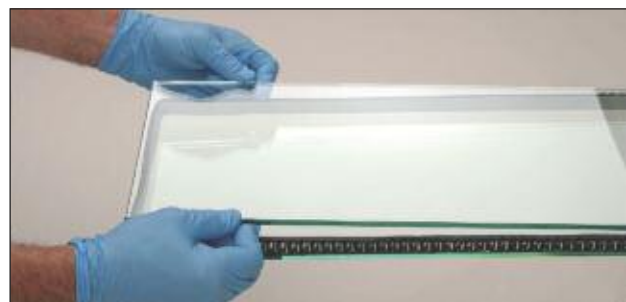


### Desiccated Topcoat

Desiccant concentrated in the top layer provides rapid dew point suppression



Apply Duralite® to clean glass surface with Applicator or by hand



Index second piece of clean glass and press on to Duralite®



Apply Spring Clamps or Mechanical Press with Heat Lamp to seal the unit

TruSeal and Duralite are registered trademarks of Quanex Building Products Corporation.

EnergySTAR is a registered trademark of The United States Environmental Protection Agency.

Duralite® patented technology incorporates unique materials and a breakthrough in continuous composite manufacturing processes. This advanced technology offers a higher performance spacer system at a competitive price. Duralite® takes optimum advantage of laminates and adhesives to reduce thermal conductivity, while improving surface and corner appearance over other insulating glass unit spacers.

A single spacer system for both standard and special units has become an important factor in today's competitive marketplace where a high percentage of manufactured units are non-rectangular. Duralite® allows the window fabricator to produce Insulating Glass units with one spacer system. The fabricator can increase productivity and flexibility, while eliminating customer concerns over having dissimilar spacers in special versus standard windows.

Other colors and sizes of Duralite® are available on special order. Swiggle/Edgetherm DS and FS is available for our customers in Australia. Contact CRL Technical Sales or go to [crlaurence.com](http://crlaurence.com) for additional information.

### DURALITE® STANDARD ROLLS

CAT. NO.	COLOR	WIDTH	ROLL LENGTH
DS6614	Gray	1/4" (6.3 mm)	66' (20.1 m)
DS66516	Gray	5/16" (7.9 mm)	66' (20.1 m)
DS6638	Gray	3/8" (9.5 mm)	66' (20.1 m)
DS66716	Gray	7/16" (11.1 mm)	66' (20.1 m)
DS6612	Gray	1/2" (12.7 mm)	66' (20.1 m)
DS66916	Gray	9/16" (14.3 mm)	66' (20.1 m)
DS6658	Gray	5/8" (15.9 mm)	66' (20.1 m)
DS6634	Gray	3/4" (19 mm)	66' (20.1 m)

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

### DURALITE® BULK ROLLS

CAT. NO.	COLOR	WIDTH	ROLL LENGTH
BDS14	Gray	1/4" (6.3 mm)	2640' (805 m)
BDS516	Gray	5/16" (7.9 mm)	2500' (762 m)
BDS38	Gray	3/8" (9.5 mm)	2240' (683 m)
BDS716	Gray	7/16" (11.1 mm)	2030' (619 m)
BDS12	Gray	1/2" (12.7 mm)	1750' (533 m)
BDS916	Gray	9/16" (14.3 mm)	1630' (497 m)
BDS58	Gray	5/8" (15.9 mm)	1520' (463 m)
BDS34	Gray	3/4" (19 mm)	1310' (399 m)

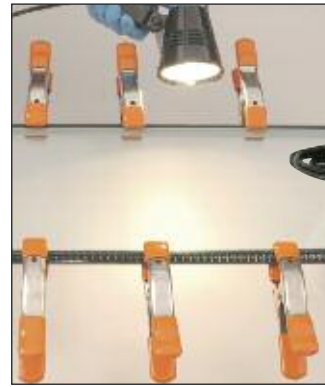
Minimum order: 1 roll. Sizes can be combined for quantity pricing.



## CRL Duralite® Quartz Heat Lamp

- Use With Deluxe Handy Clamps for Proper Compression of Duralite®
- Softens and Wets Out Adhesive

The CRL Duralite® Quartz Heat Lamp provides softening and wetting of the Duralite® adhesive. The powerful 600 watt Quartz Lamp provides plenty of heat. Hold at least 12" (305 mm) away from the glass edge to achieve approximately 120°F (49°C) of heat required which allows for adequate compression when used with Deluxe Handy Clamps. Requires 115V AC. Includes dark glasses to protect eyes from glare. For replacement bulbs, order Cat. No. TL2BULB. Minimum order is one each.



(Clamps not included)



CAT. NO. TL2

## CRL Duralite® Peak Tool

- Aids in Consistent Application of Duralite®
- Indexes Edge of Glass for Improved Sightlines

The CRL Duralite® Peak Tool is a hand tool that aids in the manual application of Duralite® for proper indexing of the material to the edge of the glass. It helps you make straighter sightlines, improving the overall appearance and quality of your Insulating Glass units. Rolls of Duralite® are fed through the Peak Tool by hand, which eases application. Training is minimal, and all widths of Duralite® can be used. Minimum order is one each.



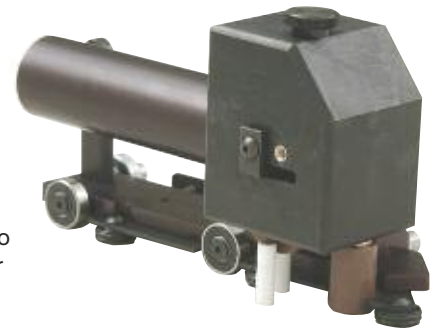
CAT. NO. DSPT1

## CRL Duralite® Pro Tool

- Aids in Application of Duralite® on Air Flow Tables
- Eliminates Operator Contact With Glass Surfaces

The CRL Duralite® Pro Tool helps maintain consistent, high quality Insulating Glass unit production by eliminating all operator contact with glass surfaces. This helps to ensure a clear vision area and create an attractive, straight sightline. The precision-made Duralite® Pro Tool features a pivot pin enabling the applicator to form uniform 90 degree corners. Rubber protected guide wheels help to prevent chipping of the glass. Minimum order is one each.

**NOTE:** For information about air flow tables contact the CRL Customer Service Department.



CAT. NO. SPT501

## CRL 6" Deluxe Handy Clamp

- Evenly Spreads Force Over Insulating Glass Unit

You can use these CRL 6" Deluxe Handy Clamps to apply the required compression for a proper seal while producing Duralite® Insulating Glass units. Position the Clamps every 6" (152 mm) around the unit's perimeter for even pressure and a uniform seal. Maximum jaw opening is 2" (51 mm). The minimum order is one each.



CAT. NO. JC3202HT

## CRL Straight Cut Snips

- Easily Cuts Duralite® Spacer



Use these Straight Cut Snips to cut and trim Duralite® during fabrication of Insulating Glass units. Maximum cut length is 1-3/8" (35 mm). Overall length is 9-3/4" (248 mm). Minimum order is one each.

CAT. NO. M3R

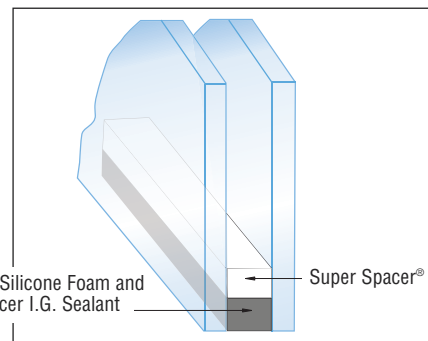
Duralite is a registered trademark of Quanex Building Products Corporation.

## CRL Silicone Foam and Metal Spacer I.G. Sealant

- **One-Part Fast Cure Urethane With Low Solvent Formula Compatible With Super Spacer®**
- **Easy, Inexpensive Way to Make Low Production, High Quality Insulating Glass Units**

Cat. No. 877 Silicone Foam and Metal Spacer I.G. Sealant is a single component urethane for the fabrication of quality single seal insulating glass units. Simply attach a SGT Polyethylene Sealant Guide to match your Super Spacer® width and backfill to the edge of the glass. Cat. No. 877 is a special low-solvent formulation that is made to be compatible with Super Spacer's adsorbent, and does not require a polyisobutylene primary seal. Cat. No. 877 may also be used with adsorbent filled aluminum spacers.

877 Silicone Foam and Metal Spacer I.G. Sealant works best for assembly of Insulating Glass units when temperature is over 40°F (5°C), and when humidity is more than 40%. Tack free time is 45-60 minutes at 77°F (25°C). Cure time is 3/16" (4.8 mm) per 24 hours. **NOTE:** Insulating Glass units should be totally sealed with Cat. No. 877 within one hour of exposing Super Spacer® adsorbent or adsorbent filled aluminum spacers to the atmosphere. Minimum order is one each. All cartridge sealants can be combined for quantity pricing.



Cat. No. 877 Silicone Foam and Metal Spacer I.G. Sealant



10.3 Fl. Oz. (304 ml);  
12 Cartridges per Case

**CAT. NO. 877**

## CRL Polyethylene Sealant Guides

- **Fit on Tapered Nozzles for Insulating Glass Sealants**
- **Sizes From 3/16" to 3/4" (4.8 to 19 mm)**

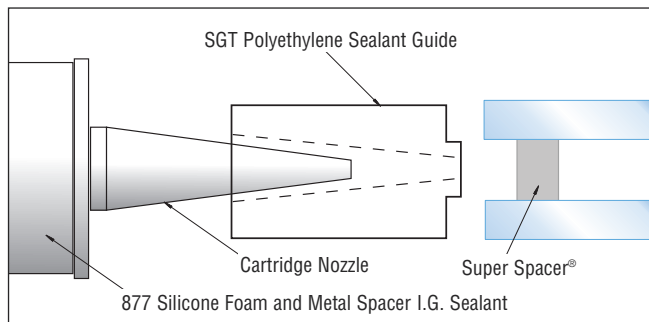
CRL Polyethylene Sealant Guides fit on the end of tapered cartridge nozzles for Insulating Glass sealants. The SGT Guide is designed to force sealant into the space between the two pieces of glass. Simply push the SGT Guide onto your nozzle and it is ready to use.



Polyethylene Adapter Nozzle **CAT. NO. 989**

The CRL Polyethylene Adapter Nozzle allows you to use SGT Sealant Guides with many different bulk sealant dispenser systems. Minimum order is one each.

Polyethylene Sealant Guides and Adapter Nozzles never need cleaning, because sealants will peel off when dry.



877 Silicone Foam and Metal Spacer I.G. Sealant



SGT Polyethylene Sealant Guide

### POLYETHYLENE SEALANT GUIDES

CAT. NO.	SIZE
<b>SGT316</b>	3/16" (4.8 mm)
<b>SGT14</b>	1/4" (6.3 mm)
<b>SGT516</b>	5/16" (7.9 mm)
<b>SGT38</b>	3/8" (9.5 mm)
<b>SGT12</b>	1/2" (12.7 mm)
<b>SGT58</b>	5/8" (15.9 mm)
<b>SGT34</b>	3/4" (19 mm)

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

## CRL Super Spacer® Desiccant Activity Test Kit

- **Ensure Quality of Units Made**
- **Test Previously Opened Packages**

CRL Super Spacer® contains at least 40% of desiccant material by weight and, prior to unit fabrication, it is critical that this desiccant material is not pre-loaded with moisture before sealing the unit. Use this Test Kit to test the remainder of previously opened packages of Super Spacer®, and any unopened packages of Super Spacer® older than 36 months.

Any unused material can be repackaged in the flat roll bags with the foil packaging being heat-sealed or taped for desiccant protection. The unused, repackaged material must be stored elevated from the floor and away from any exterior walls. Minimum order is one each.

Super Spacer is a registered trademark of Quanex Building Products Corporation.



**CAT. NO. DTK1**

## The Importance of Working With Clean Glass

In the making of Insulating Glass units, it is imperative that the glass be clean. Many commercial cleansers on the market do an excellent job; however, some manufacturers incorporate a release agent to prevent future dirt buildup. These agents are good if you are cleaning windows, but if they are used in the area in which you expect adhesion with your sealant, problems will occur.

Sealants will not adhere to release agents, and you will have failures after the unit is out in the field. Be certain that the glass cleaner does not contain these additives, and do not use the product if a statement such as "leaves an invisible film on the glass" appears on the label. CRL Glass Cleaners 1973, 3371100, 695, and 895 for washing by hand, or CRL 155X, and 3379046 for automatic glass washers, have been tested and found to be ideal. **NOTE:** If washing the glass by hand, it must be cleaned with Lint Free Wipes such as CRL Cat. No. 1550 see page 105K, and all cleaned glass should only be handled with Cat. No. NG171 Lint Free Gloves see page 606K, to prevent oily fingerprints and/or contamination.

### CRL 1973 Glass Cleaner

- A Long Time Favorite of the Glass Industry
- Low-Ammoniated Formula
- Pleasant Aroma



CRL 1973 Glass Cleaner, a long time favorite of CRL customers, is a low ammoniated glass cleaner that is packaged in original 19 ounce (539 g) cans and new 4 ounce (113 g) Mini cans. 1973 features effective cleaning agents and a pleasant aroma, with the added feature of Sprayway's logo, so your customers will be able to identify the quality of this product. Minimum order is one case of 12 cans.

**NOTE:** Also available with your Logo or Private Label right on the can. Contact CRL Customer Service for details and pricing for this unique service.

SIZE **new**

MSDS

NO AIR FREIGHT



CAT. NO. 1973  
19 oz. (539 g)



Comfort-Use Finger  
Pad Nozzle



CAT. NO. 1973M  
4 oz. (113 g)



### CRL Hi-SHEEN® Glass Cleaner

- Industrial Strength Cleaner
- Lifts Residues From Non-Porous Surfaces
- Won't Leave Streaks, Blurs or Rainbows

CRL Hi-SHEEN® Glass Cleaner has been faithfully cleaning commercial and residential glass since 1970. It's dependable, no-nonsense aerosol formula is the reason, year after year, CRL Hi-SHEEN® is always a popular product! Having an effective, reliable glass cleaner is just as important today as it was 40 years ago. This is a great resale item for glass shops. Minimum order is one case of 12 cans.

**NOTE:** Also available with your Logo or Private Label right on the can. Contact CRL Customer Service for details and pricing for this unique service.

MSDS

NO AIR FREIGHT



Resale Display Carton



CAT. NO. 3371100  
19 oz. (539 g)

### CRL S50 Sprayway® Glass Cleaner

- Ammonia Free Formula
- Fast Evaporation Rate, Just Spray and Wipe Clean

CRL S50 is Sprayway's® leading glass cleaner. The formula includes perfume-grade alcohols, which are the best cleaning agents you can use. It also has a fast evaporation rate, which keeps it from leaving a film and adversely interacting with other materials. Large 19 ounce (539 g) cans are packed 12 per case. Minimum order is one case.

**NOTE:** Also available with your Logo or Private Label right on the can. Contact CRL Customer Service for details and pricing for this unique service.

MSDS

NO AIR FREIGHT



CAT. NO. S50  
19 oz. (539 g)

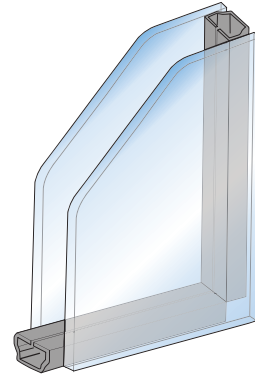


## The Aluminum Spacer Fabrication Method

Heat loss costs money and energy, but it can be prevented. Insulating glass is the most effective product that you can provide for your customers to save energy and cut their heating and cooling costs.

Traditional metal spacers for the fabrication of Insulating Glass units are available in both single and dual seal type. Single Seal Spacers have a single shoulder to accept the sealant deep enough to allow for adequate sealant penetration. Dual Seal Spacers accept a polyisobutylene primary seal while the exterior facing shoulders are designed to accept the secondary seal and allow for adequate sealant penetration. Both Single and Dual Seal Spacers utilize Spacer Corners to join them together to form frames.

**NOTE:** Corners must match spacer design.



## CRL Single Seal Aluminum Spacers

- Laser Welded Spacers Are Available in Two Finishes
- Manufactured to Meet and Exceed Rigid Test Standards

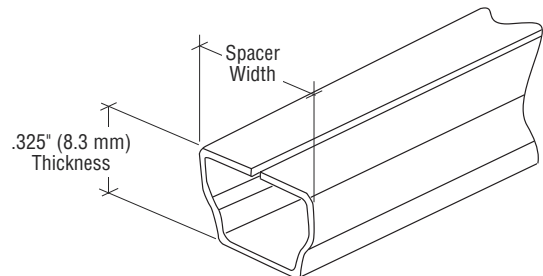
CRL Single Seal Insulating Glass Spacers have a proven record for utility and satisfaction over many years of use. Single Seal Spacers have a single shoulder to accept the sealant, and this shoulder is deep enough to allow for excellent sealant penetration.

CLEAR ANODIZED CAT. NO.	BRONZE ANODIZED CAT. NO.	SPACER WIDTH	QTY/CASE
3934	3934BRZ	3/16" (4.8 mm)	500
3935	3935BRZ	1/4" (6.3 mm)	350
3936	3936BRZ	5/16" (7.9 mm)	250
3937	3937BRZ	3/8" (9.5 mm)	200
3938	3938BRZ	7/16" (11.1 mm)	175
3939	3939BRZ	1/2" (12.7 mm)	175
3940	3940BRZ	9/16" (14.3 mm)	170
3941	3941BRZ	5/8" (15.9 mm)	150
3941A	3941ABRZ	11/16" (17.5 mm)	150
3942	3942BRZ	3/4" (19 mm)	150

Minimum order: 20 stock lengths per size and color. Sizes can be combined for quantity pricing. Stock lengths are 12'8" (3.8 m). Must ship common carrier, unless you specify we cut them for U.P.S. A Cutting Charge will apply.



**SINGLE SEAL SPACER**  
Universal Thickness for these Single Seal Spacers is .325" (8.3 mm)



## CRL Corners for Single Seal Spacer

- Long Fin Design Holds Corners in Place
- Made From Durable Nylon

CRL Nylon Corners are designed to fit tightly into CRL Single Seal Spacers for a proper seal. High quality material resists cracking and aging. Quantity per case is 1000. Sold in increments of 100.

CAT. NO.	SIZE
6262	3/16" (4.8 mm)
6265	1/4" (6.3 mm)
6266	5/16" (7.9 mm)
6267	3/8" (9.5 mm)
6268	7/16" (11.1 mm)
6269	1/2" (12.7 mm)
6270	9/16" (14.3 mm)
6271	5/8" (15.9 mm)
6271A	11/16" (17.5 mm)
6272	3/4" (19 mm)



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

## CRL Flex Corners for Single Seal Spacer

- Used to Make Variable Angle Frames
- Made From Durable Nylon

CRL Flex Corner Keys for Single Seal Spacers are a low-cost, effective method of producing variable angle Insulating Glass unit frames. The long fin design ensures extra strength and a positive fit. Quantity per case is 1000. Sold in increments of 100.

CAT. NO.	SIZE
6222	3/16" (4.8 mm)
6225	1/4" (6.3 mm)
6226	5/16" (7.9 mm)
6227	3/8" (9.5 mm)
6228	7/16" (11.1 mm)
6229	1/2" (12.7 mm)
6230	9/16" (14.3 mm)
6231	5/8" (15.9 mm)
6231A	11/16" (17.5 mm)
6232	3/4" (19 mm)



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



## CRL Hot Melt Extruder Gun

- Variable Extrusion Rates to 1/2 Pound Per Minute
- Two to Four Minutes Start-Up Time
- Lightweight and Portable

This CRL Hot Melt Extruder Gun is a specially designed portable gun for applications requiring the use of hot flow materials, such as Hot Melt Butyl Sealant for the fabrication of Insulating Glass units. The Gun features a heated barrel with a trigger control, hydraulic pressure for constant uniform flow without pulsing or air gaps, and a quick-refilling capacity to reduce your down time.

The conical design within the sealant chamber allows trapped air to bleed backward to maintain a uniform material flow. By attaching the optional Cat. No. RH522 CRL Butyl Rope Holder (not included), this unit will hold one roll of CRL Hot Melt Butyl Rope.

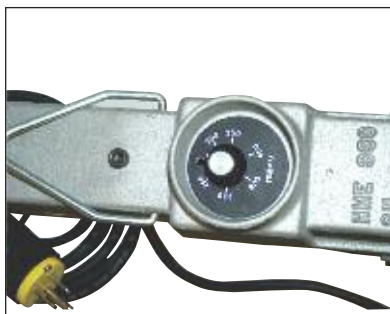
Variable temperature setting from 200 to 400°F (93 to 204°C) with the 610 Watt heater. The Gun weighs only 11 pounds (5 kg) for easy maneuverability.



Hot Melt Extruder Gun  
CAT. NO. HEG522



Hot Melt Butyl Rope Holder  
CAT. NO. RH522



Variable Temperature Settings



Hot Melt Butyl Rope Holder (Optional Accessory)

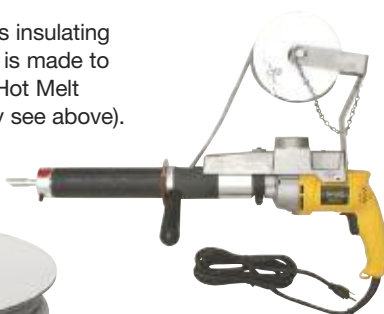
CAT. NO.	DESCRIPTION
HEG522	Hot Melt Extruder Gun
RH522	Optional Butyl Rope Holder

Minimum order: 1 each.

## CRL Hot Melt Butyl Rope

- Rope Form for Use in CRL HEG522 Hot Melt Extruder Gun

CRL Hot Melt Butyl Rope is insulating glass sealant in rope form. It is made to use in our Cat. No. HEG522 Hot Melt Extruder Gun (sold separately see above).



For ease of use we suggest the optional RH522 Butyl Rope Holder (see above).

CAT. NO.	PACKAGING	ROLLS/CASE
N415	4.5 Lbs. (2 kg) Rolls, Approximately 551' (16.8 m) Long	8

Minimum order: 1 roll.

## CRL Hot Melt Butyl in Cartridges

- For Use With Thermal Extruder Guns



This is our one-part cross-link CRL Hot Melt Butyl Insulating Glass sealant in 11 ounce (325 ml) metal cartridges for use with thermal extruder guns. 100% solids content features low moisture vapor transfer rate, excellent adhesion to glass and metal, low shrinkage, high performance under all weather conditions. The sealant cools within five to 10 minutes to form a strong resilient seal. Cartridges require pre-heating prior to application.



CAT. NO.	CONTENTS	CTG/CASE
N415TU	11 Fl. Oz. (325 ml)	24

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

## CRL SS96 Hot Melt Butyl Gunning System

- An Efficient Machine for Insulating Glass Fabrication
- Dispenses CRL30703 Hot Melt Butyl Cakes
- Includes 8' Flexible Hose and Handgun
- Our Most Popular Model

The CRL Hot Melt Butyl Gunning System is compact and versatile. Its unique pumping action eliminates entrapped air in the sealant. The pump has a 10 pound (4.53 kg) tank capacity with a temperature range from 100°F to 425°F (37°C to 217°C). CRL Hot Melt Butyl can be added while gunning, and an adjustable flow control valve knob regulates the sealant output.

An 8' (2.4 m) Flexible Hose with variable 350°F to 450°F (177°C to 232°C) temperature control is coupled with a lightweight, heated handgun that features a swivel and trigger lock action. Two adjustable temperature controllers located inside the electrical enclosure regulate the temperature of the melting tank and the handgun/hose assembly. The SS96 does not use compressed air, and operates quietly. The mechanical and electrical systems contain few moving parts, resulting in less down time and low maintenance operation. Total shipping weight, including wood crate, is 120 pounds (54 kg).



### SS96 SPECIFICATIONS

#### ELECTRICAL

Voltage - 115 VAC, 60 Hz with ground  
240V Models Available on Special Order  
Wattage - 1265 Watts  
Motor Rating - 1/6 hp, gearbox  
38 rpm output  
Warm-Up Time - 45-60 minutes

#### FUNCTIONAL

Melt Rate - 8 lbs. (3.6 kg)/hour  
Pump Output Rate (Maximum) - 40 lbs. (18.1 kg)/hour  
Tank Temperature Range - 100-425°F (37-217°C)  
Tank Capacity - 10 Lb. (4.5 kg)  
Gun/Hose Temperature Range - 350-450°F (177-232°C)

CAT. NO.	DESCRIPTION
SS96	Hot Melt Butyl Gunning System
SS26263N	8' (2.4 m) Replacement Heated Hose
SS75085000	Replacement Handgun Assembly

Minimum order: 1 each. SS96 must ship common carrier only.

## CRL Insulating Glass Hot Trim Knife

- Speeds Up I.G. Unit Production
- Works on Standard 110V AC Power



The CRL Insulating Glass Hot Trim Knife trims excess hot melt butyl from single or stacked units. It's the fast and efficient way to finish off single or dual sealed hot melt butyl units. This light, easy to handle Knife also can be used to cut up large slugs of hot melt butyl sealant for faster melting in a thermal extruder system.

Replacement Tips are available when the current Tip on your Hot Trim Knife becomes worn and caked with excess butyl. Made from solid brass, these Tips can be used for quite a long time before they need to be replaced.

CAT. NO.	DESCRIPTION
1BK990	Hot Trim Knife With Tip
RT90	Replacement Tip

Minimum order: 1 each.

## CRL Brass Tip Nozzles

- Speeds the Application of Insulating Glass Sealant
- Made From Solid Brass

CRL Brass Tip Nozzles may be used with almost all automated sealant dispensing systems. These Nozzles have a ridge that fits between the lites of glass to make the application of hot melt butyl much smoother. Nozzles may be used with our HEG522 or SS96, and all other hot melt extruders.



CAT. NO. E9133

### BRASS TIP NOZZLES

CAT. NO.	SIZE
BN3	3/16" (4.8 mm)
BN4	1/4" (6.3 mm)
BN5	5/16" (7.9 mm)
BN6	3/8" (9.5 mm)
BN7	7/16" (11.1 mm)
BN8	1/2" (12.7 mm)
BN10	5/8" (15.9 mm)
BN12	3/4" (19 mm)

Minimum order: 1 each.

The CRL Brass Pipe Nipple works with the Cat. No. HEG522 Hot Extruder Gun and allows for the attachment of CRL Brass Tip Nozzles. Minimum order is one each.

## CRL Aztech Mini Hot Melt Butyl Dispensing System

- Fast Heat-Up Time; 200°F to 400°F Operating Range
- Used to Dispense CRL30703, CRL30706, and N420LB Chunk or Chip Form Hot Melt Butyl

The CRL Aztech Mini Hot Melt Butyl Dispensing System is a compact table-top hot melt gunning unit designed for production rates of up to 50 pounds (22.7 kg) of hot melt sealants or adhesives per day. The pot holds approximately 20 pounds (9 kg) of material. Additional material may be added to the pot at any time during production. A heavy-duty progressive cavity pump provides a uniform, pulse free adjustable flow rate for hand gunning or automatic dispensing. Operating range from 200 to 400° F (93 to 204° C). An 8' (2.4 m) heated gunning hose and a trigger actuated hand gun with a swivel coupling is supplied with the unit. A variety of nozzles and dispensing heads are available. Clean up is minimal. The power is simply turned off when the equipment is no longer needed, and reheated when required. Heat-up time is approximately one hour. Minimum order is one each. F.O.B. Somerville, New Jersey.



Stand with Casters  
Sold Separately.  
CAT. NO. ATXS

CAT. NO. ATXM1

### MEASUREMENTS

Width: 19" (482 mm), Height: 16" (406 mm)  
Length: 24" (609 mm), Weight: 90 Lbs. (40.8 kg)

## CRL Aztech II Hot Melt Butyl Dispensing System

- For Heating and Dispensing CRL30706 and N420LB Hot Melt Butyl in Chip, Chunk, or Slug Form
- Adjustable Temperature Control

This CRL Aztech II Hot Melt Butyl Dispensing System extrudes chunk, slug or chip-form hot melt butyl sealants from a heated hopper-type pot that also serves as the body of the positive displacement extruder pump. The extruder pump is driven by a 1/2 HP motor mounted on a direct drive gear reducer that is coupled to the pump drive shaft by a double-belt pulley. An internal screw auger moves material into the mouth of the pump. The pot holds approximately 30 pounds (14 kg) of material, and the system is designed for production rates of up to 200 pounds (90.7 kg) of hot melt sealants or adhesives per day. The heated 12' (3.7 m) hose is steel braided with a spring guard to prevent excessive flexing. Separate rheostats for hose and pot range up to 400°F (204°C). Operates on 220 Volts. Minimum order is one each. F.O.B. Somerville, New Jersey.



Stand with Casters  
Sold Separately.  
CAT. NO. ATXS

CAT. NO. ATX11

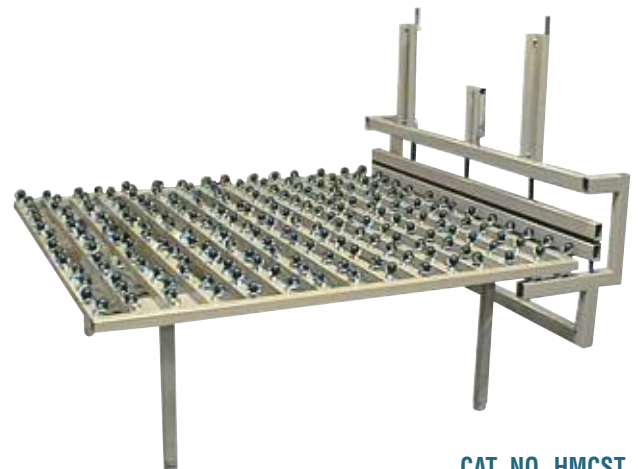
### MEASUREMENTS

Width: 30" (762 mm), Height: 19" (482 mm)  
Length: 31" (787 mm), Weight: 180 Lbs. (81.6 kg)

## CRL Hot Melt Clamp Table

- Clamp Units Up to 4" Thick
- Aids in the Assembly of Insulating Glass Units

The CRL Hot Melt Clamp Table has heavy-duty tubular steel construction. This tubular framed clamping unit consists of a stabilizer unit in the bottom, which is a horizontal bar powered by a 4" (102 mm) bore x 2" (51 mm) stroke pneumatic cylinder actuated by a hand lever on the frame. The clamping head has a horizontal bar lined with a 1" square (25 mm square) strip of closed cell, 40 durometer shore "A" neoprene rubber; powered by a 2" (51 mm) bore x 8" (203 mm) stroke pneumatic cylinder actuated by a foot pedal. The stabilizing bar comes up from the bottom and the clamp head comes down from the top to secure glass and spacer along one edge for sealant application. The clamping unit must be released and the unit rotated and reclamped to seal each side. Requires 100 psi and seven cfm air supply. F.O.B. Red Oak, Texas. Minimum order is one each.



CAT. NO. HMCST

To see the complete selection of CRL Insulating Glass products, see our catalog CRL83R, pages 797W-852W or visit us at [crlaurence.com](http://crlaurence.com).



## CRL Hot Melt Butyl

CRL Hot Melt Butyl Insulating Glass Sealant is a 100% solids, hot applied butyl-based sealant designed to give tenacious adhesion to glass and aluminum for a moisture proof seal in Insulating Glass units. The product is a one-component sealant system with lower moisture vapor transmission rates than current polysulfide, silicone, or polyurethane systems. It has been formulated to support the operation of multiple application guns from a single pump station. This easy to apply sealant offers exceptional performance under environmental exposure to ultraviolet light, temperature extremes, and moisture. It exceeds ASTM E-773/E-774 specifications. Technical Data is available at [crlaurence.com](http://crlaurence.com).

- Hot Applied for Exceptional Flow
- Low Moisture Vapor Transmission Rate
- Excellent Adhesion to Glass and Metal
- Packaged in a Variety of Forms to Suit Your Application System

### TECH DATA FOR CRL307 SERIES HOT MELT BUTYL

Color.....	Black
Moisture Vapor Transmission Rate.....	0.35 g/m <sup>2</sup> /24 hr.
Suggested Application Temperature.....	350 to 400°F (175 to 204°C)
Brookfield Thermosel Viscosity at 374°F (190°C).....	275,000 cps
Shear Strength (Aluminum/Aluminum).....	50 psi cohesive failure
Average Setting Time...Window units may be moved after 3 minutes cooling time	
Weight per Gallon.....	9.91 lb (4.5 kg)

## CRL Hot Melt Butyl Cakes

- Convenient Cake Form is Easy to Use



CRL Hot Melt Butyl Cakes are easy to use in CRL SS96, Aztech ATXM1, and ATX11 dispensing systems.

CAT. NO.	APPROX. SIZE	WEIGHT/CASE
<b>CRL30703</b>	7-1/2" x 4" x 2-1/2" (190 x 102 x 63.5 mm)	48 lbs (22 kg)

Minimum order: 48 pounds. Must be ordered in increments of 48 pounds.

## CRL Hot Melt Butyl Chunks

- Fit All Large Hot Melt Butyl Dispensers



CRL Hot Melt Butyl in chunk packaging is for larger dispensers, such as CRL Aztech Mini (Cat. No. ATXM1) and Aztech II (Cat. No. ATX11). The Chunks are dropped into the melting pots whole.

**NOTE:** Hot Melt Butyl is dispensed at operating temperatures of 400°F (204°C). Wear the proper safety gear including gloves, arm guards and protective eyewear to avoid burns and other injuries.

CAT. NO.	APPROX. SIZE	WEIGHT/CASE
<b>CRL30706</b>	2-1/2" x 6" x 7-1/2" (63.5 x 152 x 190 mm)	48 lbs (22 kg)
<b>N420LB</b>	3" x 6" x 7-1/2" (76 x 152 x 190 mm)	50 lbs (23 kg)

Minimum order: 48 pounds for CRL30706 and 50 pounds for N420LB. Must be ordered in those increments.

## CRL Hot Melt Butyl in Pails



- For 5 Gallon Pail Hot Melt Butyl Dispensers

CRL Hot Melt Butyl in 5 gallon pails applies with any hot melt pumping system for 5 gallon pails.



CAT. NO.	CONTAINER	NET WEIGHT
<b>CRL30705</b>	5 gal. (19 l) Pail, net 4 gal. (15 l) Butyl	41 lbs (18.5 kg)

Minimum order: 1 pail.

## CRL Hot Melt Butyl in Drums



- For 55 Gallon Drum Hot Melt Butyl Dispensers

CRL Hot Melt Butyl in 55 gallon drums applies with any hot melt pumping system for 55 gallon drums.



CAT. NO.	CONTAINER	NET WEIGHT
<b>CRL52055GL</b>	55 gal. (208 l) Drum, net 48 gal. (182 l) Butyl	485 lbs (220 kg)

Minimum order: 1 drum.

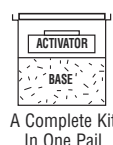
## CRL Two-Part Polysulfide Insulating Glass Sealant

- Compatible With Aluminum Spacers
- Resistant to Weather, Ozone, Sunlight, Heat, and Cold
- Cures Rapidly to Permit Easy Cutting and Handling

CRL Two-Part Polysulfide Insulating Glass Sealant seals insulating glass units against moisture, cold, and heat. It out performs competitive polysulfide sealants in resistance to moisture, sunlight, aging, and weathering. CRL Two-Part Polysulfide Insulating Glass Sealant maintains outstanding adhesion to glass, aluminum, and other spacer and corner materials under the most severe weather conditions. Cures rapidly to permit easy cutting and handling within four to 12 hours at room temperature, or even less time at elevated temperatures. High strength and low cost make it attractive for single and dual seal units. Sealant passes SIGMA specifications for durability of Insulating Glass units.

CAT. NO.	COLOR	CONTENTS
N400G15	Black	1-1/2 Gallons (5.7 l)
N4005GL	Black	5 Gallons (18.9 l)
N40055GL	Black	55 Gallons (208.2 l)

Minimum order: 1 each. N40055GL ships via common carrier F.O.B. Delaware.



CAT. NO. N400G15

CAT. NO. N4005GL



CAT. NO. N40055GL



## CRL Two-Part Polyurethane Insulating Glass Sealant

- Compatible With Edgetech Super Spacer™
- Low Moisture Vapor Transfer Rate
- Can Be Used With Adsorbent Filled Aluminum Spacers



CAT. NO. N600G15



CAT. NO. N60055GL

CRL Two-Part Polyurethane is an effective edge seal used for fabricating Insulating Glass units. Best when mixed by weight, using only as much as you need. Correct proportioning mixing ratio by weight is 14.8 to 1. Mix with a portable drill mixer and apply with a flexible blade putty knife. This Two-Part Polyurethane Sealant contains no solvents, allowing it to be used safely with Super Spacer™. Set time is three hours when properly mixed.

CAT. NO.	COLOR	CONTENTS
N600G15	Black	1-1/2 Gallons (5.7 l)
N60055GL	Black	55 Gallons (208.2 l)

Minimum order: 1 each. N60055GL ships via common carrier F.O.B. Delaware.

## Insulating Glass Compatible Sealants

### CRL RTV408 Neutral Cure Silicone

- Compatible for Insulating Glass Glazing
- Designed for Primerless Adhesion
- Low Odor, Non-Acetic Cure Formula
- AAMA Approved

CAT. NO.	COLOR
RTV408C	Clear
RTV408AL	Aluminum
RTV408BL	Black
RTV408BRZ	Bronze
RTV408BGE	Beige
RTV408DT	Dark Tan
RTV408T	Tan
RTV408W	White

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



Get full details at [crlaurence.com](http://crlaurence.com)

### CRL 321 Acrylic Latex With Silicone

- Suitable for Glazing Insulating Glass Units in Wood Frames
- Paintable With Oil or Latex Based Paints
- Mildew Resistant

CAT. NO.	COLOR
321C	Clear
321W	White
321BRZ	Bronze
321GRY	Gray
321ALM	Almond

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



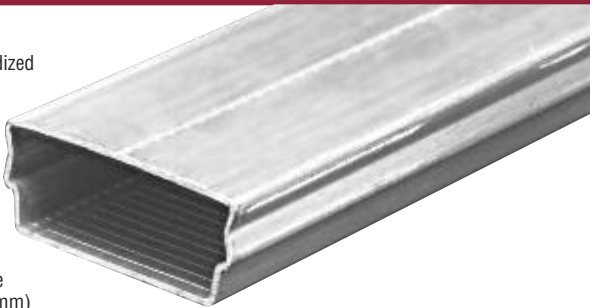
Get full details at [crlaurence.com](http://crlaurence.com)

CRL Low Profile Dual Seal Aluminum Spacers

- For the Fabricator Who Prefers a Dual Seal Insulating Glass Unit
- Laser Welded Spacers With Clear Anodized Finish

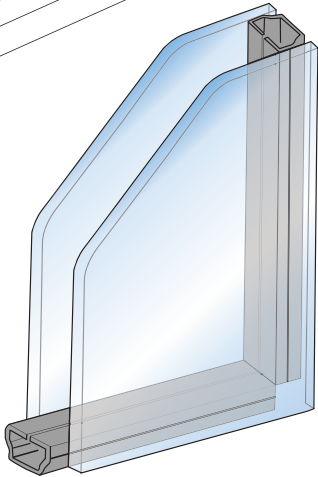
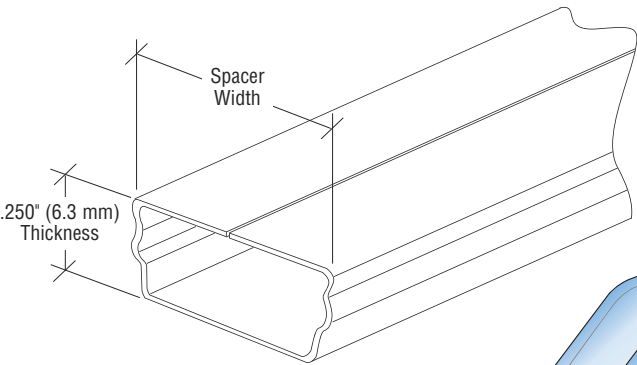
This CRL Low Profile Dual Seal Spacer was designed for fabricators of Insulating Glass who prefer a dual seal system. The groove on the shoulder is designed to accept the CRL Polyisobutylene Primary Seal (see page 607K), while the taper below the shoulder will accept the secondary seal. The uniform size and shape of this Spacer will assure you the close tolerances required for dual seal fabrication.

Clear Anodized



DUAL SEAL SPACER

Universal Thickness for these Dual Seal Spacers is .250" (6.3 mm)



CAT. NO.	FINISH	SPACER WIDTH	QTY/CASE
99124	Clear Anodized	3/16" (4.8 mm)	500
99125	Clear Anodized	1/4" (6.3 mm)	350
99126	Clear Anodized	5/16" (7.9 mm)	250
99127	Clear Anodized	3/8" (9.5 mm)	200
99128	Clear Anodized	7/16" (11.1 mm)	175
99129	Clear Anodized	1/2" (12.7 mm)	175
99130	Clear Anodized	9/16" (14.3 mm)	170
99131	Clear Anodized	5/8" (15.9 mm)	150
99131A	Clear Anodized	11/16" (17.5 mm)	150
99132	Clear Anodized	3/4" (19 mm)	150

Minimum order: 20 stock lengths per size and color. Sizes can be combined for quantity pricing. Stock lengths are 12'8" (3.8 m). Must ship common carrier, unless you specify we cut them for U.P.S. A Cutting Charge will apply.

CRL Corners for Dual Seal Spacer

- Used Exclusively With CRL Dual Seal Spacer
- Made From Durable Nylon

This CRL Nylon Corner for dual seal units has a patented design which allows it to lock tightly into the Spacer to assure a positive seal. Made from nylon, these Corners won't crack or deteriorate over time. Use with CRL Low Profile Dual Seal Spacer only (see above). Quantity per case is 1000. Sold in increments of 100.

CAT. NO.	SIZE
92174	3/16" (4.8 mm)
92175	1/4" (6.3 mm)
92176	5/16" (7.9 mm)
92177	3/8" (9.5 mm)
92178	7/16" (11.1 mm)
92179	1/2" (12.7 mm)
92180	9/16" (14.3 mm)
92181	5/8" (15.9 mm)
92181A	11/16" (17.5 mm)
92182	3/4" (19 mm)



Minimum order 100 each. Must be ordered in increments of 100. Sizes 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 Insulating Glass fabrication. Two sizes available to fit most anyone's hands.

CAT. NO.	SIZE
NG170	Small
NG171	Large

Minimum order: 1 dozen pairs.



## CRL Polyisobutylene Primary Seal

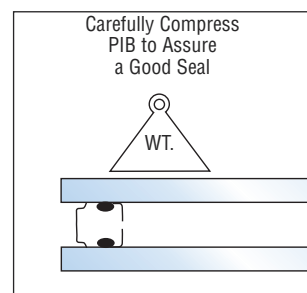
- Used to Manufacture Dual Seal Insulating Glass Units
- Exceptional Low Vapor Transmission
- Keeps Units From Fogging

CRL Polyisobutylene is used as the primary vapor seal in dual sealed Insulating Glass units. It is a one-part, non-drying, non-hardening material for dual seal fabrication in either tape or slug form. Primarily used in conjunction with CRL Insulating Glass Silicone, Polyisobutylene adheres to glass and metal, and resists water, ozone, and ultraviolet light.

The tape form is applied by hand to the sides of Dual Seal Spacer. Slugs are used in automated machines for application to the Spacer. CRL Polyisobutylene is made under the highest quality control conditions possible. With 100% solid content, it's compatible with any secondary seal.



Tape Form



Slug Form

### POLYISOBUTYLENE TAPE

CAT. NO.	ROLL LENGTH	ROLLS/CASE	FEET/CASE
<b>2132559</b>	210' (64 m)	10	2100' (640 m)

Minimum order: 1 case.

### POLYISOBUTYLENE SLUGS

CAT. NO.	SIZE	WEIGHT	SLUGS/CASE
<b>BK129</b>	7-1/2" Dia. (190 mm) x 9" (229 mm)	15 lbs. (6.8 kg)	4

Minimum order: 1 case.

## CRL 3" Flexible Knife



- High-Carbon Flexible Steel Blade
- Large Soft Grip Handle

Our CRL Flexible Blade Knife features a high-carbon steel blade set in a large soft grip handle. Blade width is 3" (76 mm). Overall length is 9" (229 mm). Excellent for hand application of Two-Part Insulating Glass Sealants. Minimum order is one each.

CAT. NO. HW035

## CRL 6" Deluxe Handy Clamp

- Evenly Spreads Force Over Insulating Glass Unit
- Vinyl Tips and Grips

CRL Deluxe Handy Clamps hold Insulating Glass Spacers in place during the sealing process. The modern design of the Clamp minimizes the spread between handle ends, and makes the "grip" more comfortable for the user. Heavily plated steel Clamps have smooth, bright finish to resist corrosion. Maximum jaw opening is 2" (51 mm). Minimum order is one each.



CAT. NO. JC3202HT

# CRL INSULATING GLASS SUPPLIES

For Pricing Visit [crlaurence.com](http://crlaurence.com) or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

## CRL 9542 Insulating Glass Silicone Sealant

- Specially Formulated for the Manufacture of Dual Seal Insulating Glass Units
- Excellent Glass-to-Glass Adhesion
- Resistance to UV Light and Weather Extremes

CRL 9542 Insulating Glass Silicone is a single component, neutral cure silicone glass sealant specifically designed for producing long lasting insulating glass units when used with a primary seal of polyisobutylene (page 607K). 9542 contains adhesion promoting additives for excellent glass-to-glass adhesion, and is resistant to ultraviolet light and weather extremes. CRL 9542 has a functional temperature range of -80°F to 400°F (-62°C to 204°C).

It is available in easy-to-use 10.3 fl. oz. (305 ml) cartridges or 52 gallon drums for bulk dispensing. This product is black in color. Tack-free time is 30 minutes; fully cures 1/8" (3 mm) thickness in 24 hours. Units may be cautiously moved after 24 hours. Full strength is obtained in seven days. See page 605K for Neutral Cure Silicone to be used as a compatible bedding sealant for I.G. units.



10.3 Fl. Oz. (305 ml);  
30 Cartridges per Case,  
1440 Cartridges Per Pallet;  
Screw-On Nozzle



Additional  
Nozzles  
Available  
Cat. No.  
S1LN0Z

**TECHNICAL DATA:** Meets or exceeds Federal Specifications TT-S-1543A, Class A (COM-NBS) for silicone building sealants; TT-S-00230C, Class A (COM-NBS) for one-component silicone sealants; ASTM C-920 for elastomer joint sealants, Type S, Grade NS, Class 25, Use NT, G, A; CGSB 19GP-13.

CAT. NO.	COLOR	CONTENTS
9542	Black	10.3 Fl. Oz. (305 ml)
954252GL	Black	52 Gallons (197 L)

Minimum order: 1 each. 954252GL must ship common carrier.

## CRL 12 Volt DC Variable Speed Cordless Cartridge Caulking Gun for Lightweight Sealants

- Variable Speed Trigger Controls Flow of Sealant
- Use to Dispense Lightweight Sealants Such as Silicones and Acrylic Latex
- Complete With 12 Volt Battery, One Hour Charger, and Molded Plastic Carrying Case

This CRL 12V DC Cordless Cartridge Caulking Gun operates on a 12 volt Rechargeable Battery and comes with a One Hour Charger. The variable speed control is in the trigger for easy adjustments in speed. It is ideal for glazing contractors, building contractors, roofers, cabinet makers, OEM fabricators, window manufacturers, or anyone who applies a lot of silicone or acrylic latex sealants and wants an easier, more professional way of getting the job done, without the restrictions of cords or hoses. Affordable and effective, this gun also comes with a 90 day warranty. For uninterrupted production, you can order additional LD188B 12 Volt Battery Packs.

**WARNING:** Not for use with high viscosity automotive urethane adhesives and construction polyurethane sealants. Use Only to dispense lightweight sealants such as silicone and acrylic latex.



CAT. NO.	DESCRIPTION
LD188	12 Volt Cordless Cartridge/Caulking Gun Kit
LD188B	12 Volt DC Battery Pack
LD188C	One Hour Battery Charger
LD188AU	240 Volt Caulking Gun Kit-Australia
LD188C240VAU	240 Volt Battery Charger-Australia
LD188EU	240 Volt Caulking Gun Kit-Europe
LD188C240VEU	240 Volt Battery Charger-Europe

Minimum order: 1 each.

## CRL 12 to 1 Ratio Strap Frame Caulking Gun

- Low to Medium Viscosity Materials
- Smooth Rod With Thumb Release



This CRL 12:1 Ratio Caulking Gun has the smooth operation of a friction rod, plus a large handle and trigger. Perfect for dispensing low to medium viscosity materials, such as silicones and acrylic latex sealants. The strap frame rotates to move the nozzle tip where needed. The spring release plunger lets you load and dispense quickly and easily. The thumb-activated instant pressure release button prevents sealant run-on. Includes a built-in ladder hook.

Minimum order is one each.

CAT. NO. GA1203

## CRL Aluminum Air Powered Gun

- Holds Standard Cartridges
- Air Regulator Pressure Adjuster



A superb quality, lightweight aluminum air powered gun. The 2" x 10" (51 x 254 mm) drawn aluminum barrel holds all standard size cartridges. Gun dispenses materials smoothly and uniformly with just a trigger squeeze, and connects to standard 1/4" (6.4 mm) hose fittings. It has an instant release valve to stop material flow, true air regulator, and can operate at up to 100 psi maximum. Minimum order is one each.

CAT. NO. WG61001

All Caulking Guns can be combined for quantity pricing.



C.R. LAURENCE COMPANY

[crlaurence.com](http://crlaurence.com) | [usalum.com](http://usalum.com)

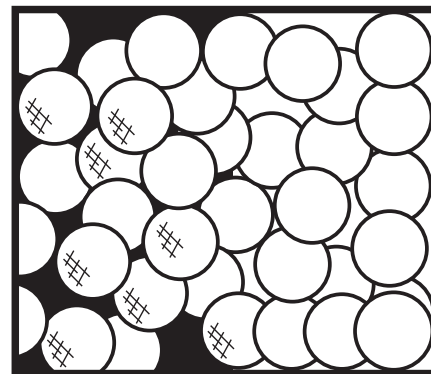
608K | [crlaurence.ca](http://crlaurence.ca) [crlaurence.com.au](http://crlaurence.com.au) [crlaurence.co.uk](http://crlaurence.co.uk) [crlaurence.de](http://crlaurence.de) [crlaurence.eu](http://crlaurence.eu)

## The Importance of Adsorbents

Molecular Sieve (MSD) has an excellent capacity for adsorbing water and chemical vapors, and is the most economical adsorbent on a cost-per-unit basis. MSD provides Insulated Glass fabricators with superior protection against fogging for a longer lasting unit. MSD is suitable for both cool and warm climates, and can be used for residential, architectural, and commercial applications.

MSD has a weight of 6.5 grams per foot in a 1/4" (6.3 mm) square channel. At 77°F (25°C) room temperature and a dew point of 60°F (16°C), 100 pounds (45 kg) of MSD would adsorb approximately 11-1/2 pounds (5.2 kg) of water. MSD is cost effective because it costs less per drop of water removed than any other adsorbent. This provides you with significant savings in unit production.

**NOTE:** It is only necessary to fill the two long legs of the spacer frame. Fill only one long and one short leg when the long side is greater than 2-1/2 times the length of the short side.



## CRL MSD Molecular Sieve Adsorbent

- Standard Formula Removes Moisture From I.G. Units
- Three Standard Packaging Sizes
- Ask About Our High Volume Special Pricing

This CRL MSD Type Molecular Sieve is an all-purpose adsorbent for use in the fabrication of Insulating Glass units. It has an excellent capacity for adsorption of water and chemical vapors. MSD provides Insulating Glass fabricators with superior protection against fogging for a longer lasting unit.

MSD is suitable for both cool and warm climates, and can be used for residential, architectural, and commercial applications. CRL Molecular Sieve Adsorbent is cost effective because it costs less per drop of water removed than any other adsorbent. This means significant savings in unit production. **NOTE:** Avoid prolonged skin contact when working with this product.



CAT. NO. MSD50B



CAT. NO. MSD5



CAT. NO. MSD325

CAT. NO.	CONTENTS	APPROXIMATE SHIPPING WEIGHT
MSD5	5 Pound (2.2 kg) Can	6 Pounds (2.7 kg)
MSD50B	55 Pound (25 kg) Box	57 Pounds (26 kg)
MSD325	325 Pound (147.4 kg) Drum	335 Pounds (152 kg)

Minimum order: 1 each. MSD325 must ship common carrier only.

## CRL Low Deflection Molecular Sieve Adsorbent

- Low Deflection Formula Removes Moisture from I.G. Units
- Ask About Our High Volume Special Pricing

This CRL Low Deflection Molecular Sieve Adsorbent is a uniform bead product with a high capacity for both moisture and solvent vapor. MSD LDA features low deflection characteristics and benefits in both economy and performance. Longer unit life results from the minimization of unit seal stress and deflection. Two convenient packages are available, both designed to protect the product during shipment and storage.

**NOTE:** Avoid prolonged skin contact when working with this product.



CAT. NO. MSD50BLDA



CAT. NO. MSD325LDA

CAT. NO.	CONTENTS	APPROXIMATE SHIPPING WEIGHT
MSD50BLDA	55 Pound (25 kg) Box	57 Pounds (26 kg)
MSD325LDA	325 Pound (147.4 kg) Drum	335 Pounds (152 kg)

Minimum order: 1 each. MSD325LDA must ship common carrier only.



## CRL Desiccant Filling Machine

- 12 Gallon Storage Container
- Fills Up to 35 Spacers at Once
- Visit [crlaurence.com](http://crlaurence.com) for Additional Insulating Glass Machinery

The CRL Desiccant Filling Machine is a fast, effective, and space-saving alternative for spacer bar filling. Fills up to 35 spacers at one time. The unit features all steel construction, and has a 12 gallon (45.4 l) storage capacity container for the desiccant. Its special spacer seal barrier and electric vibrator assure complete filling of the spacers. It can handle spacers of all sizes at the same time. Easy to operate and completely adjustable to a comfortable working height. Only one 110V AC source is required for the operation of the vibrator. Shipped knocked down F.O.B. Red Oak, TX. Minimum order is one each.



- Adjustable Working Height

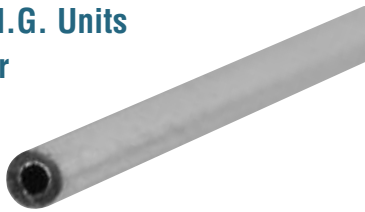
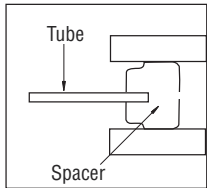
### SPECIFICATIONS:

**Height:** 96" (2438 mm)  
**Length:** 48" (1219 mm)  
**Width:** 20-1/2" (520 mm)  
**Weight:** 255 lbs. (116 kg)

CAT. NO. EDFM

## CRL Aluminum Breather Tubes

- Equalizes Pressure in I.G. Units
- Larger Inside Diameter



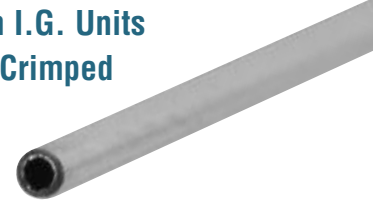
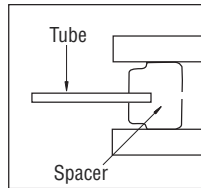
If your Insulating Glass units are transferred from low to high altitudes, or vice versa, install these CRL Breather Tubes into the spacer frame to equalize pressure. Upon arrival at the installation point, simply snip off the Tube below sealant surface, crimp the end and then seal. The larger inside diameter of the tube allows the unit to equalize the pressure faster. Available in two lengths.

CAT. NO.	LENGTH	I.D.	O.D.	QTY/PKG
<b>3003</b>	6" (152 mm)	.030" (.76 mm)	.050" (1.27 mm)	100

Minimum order: 100 each.

## CRL Stainless Steel Capillary Tubes

- Equalizes Pressure in I.G. Units
- Does Not Have to be Crimped



If you transport Insulating Glass units from low to high altitudes, or vice versa, install these CRL Capillary Tubes into the spacer frame to equalize pressure. The smaller inside diameter of the Tube and longer length does not allow as much moisture to travel up the Tube. At the destination point the Tube does not have to be crimped and sealed, just bent over along the frame at the top of the unit.

CAT. NO.	LENGTH	I.D.	O.D.	QTY/PKG
<b>CT12C</b>	12" (305 mm)	.021" (.533 mm)	.031" (.787 mm)	100
<b>CT12M</b>	12" (305 mm)	.021" (.533 mm)	.031" (.787 mm)	1000

Minimum order: 100 each for CT12C; 1000 each for CT12M

## CRL Test Kit for Molecular Sieve

- Used to Determine Freshness of MSD
- Easy to Use

Since the useful life of any adsorbent is reduced by excessive exposure to the atmosphere, daily testing of inventory with the CRL MSD Test Kit is recommended. The Kit lets you measure residual moisture quickly and easily. Kit contains two measuring glasses, one thermometer, one reference graph, and one instruction sheet. Minimum order is one each.

**NOTE:** Read instructions carefully and use caution when using this Test Kit. Work in an open area with good ventilation. A chemical reaction takes place when using.



CAT. NO. MSDTK

## Easy Steps to High Quality Insulating Glass Muntin Bar Fabrication

### • Muntin Bars Produce a Distinctive Divided Lite Appearance for Colonial Style Insulating Glass Units

For "Colonial" style Insulating Glass units, install CRL Muntin Bars cut to length using the inside measurements of the spacer frame. As with spacer frame fabrication, Muntin Bars should be cut with a fine 100 to 150 tooth saw blade (see page 456K) without oil or coolant. It is also recommended that Cat. No. NG171 Lint Free Gloves be worn while handling Muntin Bar lengths to reduce contamination (see page 606K).

Measure and mark the cross points of Muntin Bars. Notch each bar with Cat. No. MMBN1 Manual Muntin Bar Notcher with the appropriate die and punch (see page 613K).

After press fitting the Muntin Bar grid together, insert the appropriate Muntin Bar Clips. Larger Muntin Bar grids may require the use of internal Muntin Joiners. Drill or punch the spacer frames at the connecting points of spacer and Muntin Bar Clips. Use an electric hand drill, drill press or Cat. No. MBKP1 Muntin Bar Keeper Punch (see page 614K). Finished Muntin Bar grids then are assembled into the spacer frame.

**NOTE:** Clean Muntin Bars before sealing unit with 1973, 3371100, or S50 Glass Cleaner (see page 599K). Do not use MEK, alcohol, or similar chemicals.



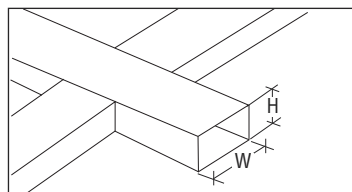
## CRL Muntin Bars

### • Fit Inside Spacer Frame to Create Colonial Style Insulating Glass Units • Easy to Fabricate

CRL Muntin Bars add a distinctive flair to your Insulating Glass units. They are ideal for the fabrication of "Colonial" style windows. There are two finishes that will complement the trim of most any home. Muntin Bars are cut to size, and then assembled with CRL Muntin Bar Clips before being placed inside the unit.

For a professional 'crisscross' effect, use the CRL Manual Muntin Bar Notcher (see page 613K) and secure with the proper CRL Internal Muntin Joiners (see page 612K).

Stock lengths of Muntin Bars are 12' 8" (3.9 m).



WHITE CAT. NO.	BRONZE CAT. NO.	SIZE HEIGHT X WIDTH	QTY/CASE
36006W	36006BRZ	3/16" x 13/16" (4.8 x 20.6 mm)	50
36009W	36009BRZ	3/16" x 9/16" (4.8 x 14.3 mm)	50
36012W	36012BRZ	3/16" x 5/8" (4.8 x 15.9 mm)	50
36004W	36004BRZ	3/16" x 3/4" (4.8 x 19 mm)	50

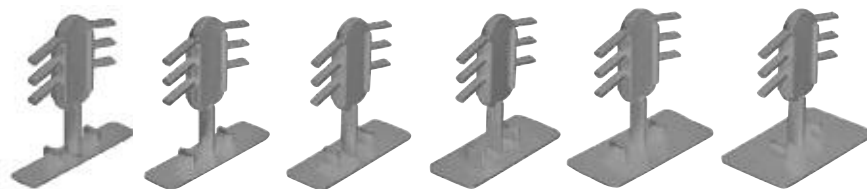
Minimum order: 1 stock length. A Packing Charge will be added to orders fewer than 20 combined lengths. Stock lengths longer than 98" (2.49 m) must ship common carrier, unless you specify we cut them for U.P.S. A Cutting Charge will apply. Sizes and colors can be combined for quantity pricing.

## CRL Universal Muntin Clips

### • Fit Rectangular Spacer Widths 1/4" to 3/4" (6 to 19 mm) • Flexible to Fit Any Angle • Solid Centering Foot • No Spacer Punching Required • Works With Aluminum Spacers, Super Spacer®, and Duralite®

These CRL Universal Muntin Clips will fit all rectangular muntin bars up to 3/4" (19 mm) wide. The side fins help to center and lock the Clip inside the muntin bar, and the small nubs on the base keep the muntin from twisting when installed. Thin, flexible stem allows Clip to work with virtually any mitered angle. Clip base is slightly undersized so as not to interfere with the glass. Molded from grey resin to blend in with spacer color. No spacer punching required.

Super Spacer and Duralite are registered trademarks of Quanex Building Products Corporation.

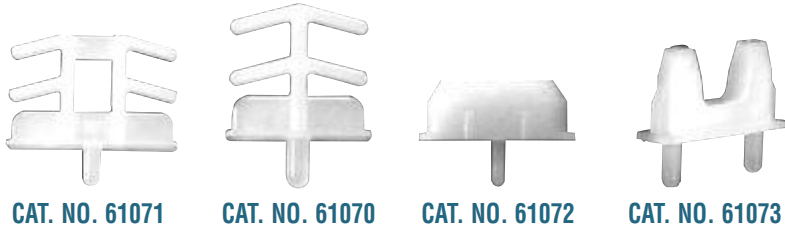


CAT. NO.	AIR SPACE	BASE DEPTH
UMC14	1/4" (6 mm)	.220" (5.6 mm)
UMC516	5/16" (7.9 mm)	.295" (7.5 mm)
UMC38	3/8" (9.5 mm)	.360" (9.1 mm)
UMC12	1/2" (12.7 mm)	.485" (12.3 mm)
UMC58	5/8" (15.9 mm)	.605" (15.4 mm)
UMC34	3/4" (19.1 mm)	.734" (18.6 mm)

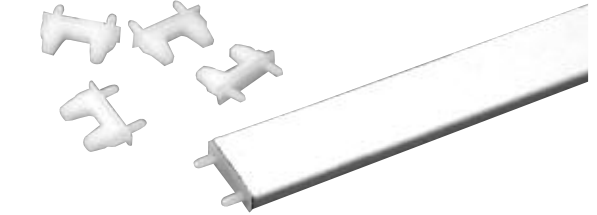
Minimum order: 100 each. Must be ordered in increments of 100. All Muntin supplies can be combined for quantity pricing.

## CRL Muntin Clips

- Designed to Work With CRL Muntin Bars
- Made From Durable Nylon



CRL Muntin Clips are designed to fit tightly in CRL Muntin Bars to properly secure the Muntin Assembly within the air space of an Insulating Glass unit.



CAT. NO.	FITS BAR	PRONGS	QTY/BOX
<b>61071</b>	36006	1	100
<b>61070</b>	36009	1	100
<b>61072</b>	36012	1	100
<b>61073</b>	36004	2	100

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

## CRL Internal Muntin Joiner

- For Joining Notched Muntin Bars

The CRL Internal Muntin Joiner holds the notched bar intact during the grid and frame assembly. It makes assembling Muntin Bars easier and more manageable, especially for larger sized Insulating Glass units. Two sizes fit most applications.



CAT. NO.	FITS BAR	QTY/BOX
<b>AM04</b>	36004/36006	100
<b>AM609</b>	36009/36012	100

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

## CRL Flexible Muntin Locator

- Secures Sunburst and Wagon-Wheel Windows

Use the CRL Flexible Muntin Locator to secure sunburst and wagon-wheel windows in their frames. The flexible end pin helps eliminate unsightly gaps. They are an excellent aid in the fabrication of Insulating Glass units.



CAT. NO.	FITS BAR	QTY/BOX
<b>AM06</b>	36004/36006	100
<b>AM12</b>	36009/36012	100

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

## CRL Sunburst Muntin Joiner

- For Circle Top Windows
- Use With 36012 Muntin Bars Only

CRL Sunburst Muntin Joiners make half and full-circle windows easy to fabricate. The white, flexible nylon holds the muntin bar securely, producing great looking wagon-wheel windows. These Joiners are made for use with CRL 36012 Muntin Bars only.



CAT. NO.	FITS BAR	QTY/BOX
<b>AM601</b>	36012	100

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



## CRL Manual Muntin Bar Notcher and Die Sets

- Each Precision Machined Unit is Made to Customer's Specifications
- Interchangeable Dies

This CRL Manual Muntin Bar Notcher will notch most Muntin Bars quickly and smoothly. Each Die Set is custom fabricated from hardened and ground tool steel. The Notcher comes with one Die Set. If you are using CRL Muntin Bar, no sample is required; simply provide the CRL Catalog Number of the Muntin being used. Otherwise, four sample pieces of your Muntin Bar, 24" (610 mm) long, are required in order to fabricate the Dies properly. Contact CRL Technical Sales for machine details and specifications.

Each CRL Die Set for the Muntin Bar Notcher is made from the finest heat-treated tool steel, and to your exact specifications.

**NOTE:** To ensure a proper fit you must specify the distance between the mounting holes and the blade tip of your existing Die Set to match the new Blade and Die Set.

Minimum order is one each.



**CAT. NO. MMBD1E**  
Die Set for Muntin Bar Notcher



**CAT. NO. MMBN1**  
Manual Muntin Bar Notcher

## CRL Air Powered Muntin Bar Notcher and Punch and Die Sets

- For Fast Notching of Muntin Bars
- Excellent for Production Work

This CRL Air Powered Muntin Bar Notcher provides an accurate burr-free notch cut, and requires no hand cleaning. The guide bar has a graduated rule and a sliding stop for accurately spacing notches along the bar. All die sections are fabricated from hardened and ground tool steel.

The Notcher comes with a hand-operated Switch, Air Hose, Cutting Chart, and one Punch and Die Set. The machine requires 50 to 250 psi of air pressure for operation. A sample of the Muntin Bar to be used is required when ordering, and extra Punch and Die Sets are available. Also, Multiple Head Muntin Notchers (up to five heads) are available for larger production shops. Contact CRL Technical Sales for machine details and specifications. F.O.B. Canton, Michigan.



**CAT. NO. APMN1**  
Air Powered Muntin Bar Notcher



Punch and Die Set

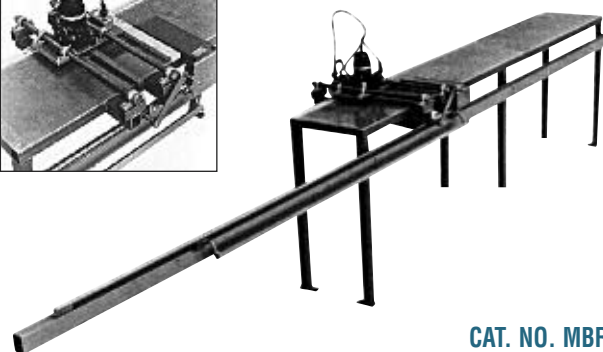
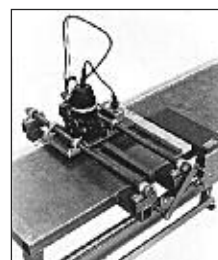
CAT. NO.	DESCRIPTION
<b>APMN1</b>	Air Powered Muntin Notcher
<b>APDS916</b>	9/16" (14.3 mm) Punch and Die Set for CRL 36009 Muntin Bar
<b>APDS58</b>	5/8" (15.9 mm) Punch and Die Set for CRL 36012 Muntin Bar
<b>APDS34</b>	3/4" (19 mm) Punch and Die Set for CRL 36004 Muntin Bar
<b>APDS1316</b>	13/16" (20.6 mm) Punch and Die Set for CRL 36006 Muntin Bar

Minimum order: 1 each.

## CRL Muntin Bar Router

- Made Especially to Cut Notches in Muntin Bar Prior to Fabrication
- Air Operated Hold Down Clamp
- Adjustable Cut-Off Gauge

The CRL Muntin Bar Router makes notches in Muntin Bars prior to Insulating Glass unit fabrication. The welded steel constructed table has a 3/16" (4.8 mm) thick aluminum top measuring 18" x 120" (457 mm x 3.04 m). An adjustable cut-off gauge is mounted on the table to line up the Muntin Bars prior to routing. The Router is mounted on a linear slide plate and will route a groove in a 15" (381 mm) wide gang of Muntin Bars, which are held in place by a pneumatic-actuated bar assembly. It comes complete with 110V AC Router. Contact CRL Glass and Glazing Technical Sales for machine details and specifications. F.O.B. Red Oak, Texas. Shipping weight: 500 pounds (227 kg). Minimum order is one each.



**CAT. NO. MBR1**  
Muntin Bar Router

## CRL Deluxe Spacer Bender

- Can Be Made to Accommodate Almost Any Size Spacer Bar
- Custom Manufactured by CRL

This machine is designed to bend Spacer Bars to any radius allowable by the design of the Spacer. Manually operated, the CRL Spacer Bender uses a pressure drive roller with two forming die rollers. As the Spacer is forced through the forming dies, the degree of bend is increased through higher pressure from the drive roller with each successive pass, until the desired radius is attained. Quick interchanging of the forming die rollers allows total versatility in bending of different size Spacers.

Unit includes Dies for 3/16", 1/4", 5/16", 3/8", and 1/2" (4.8, 6.4, 7.9, 9.5, and 12.7 mm) standard height CRL, All Metal, and Nichols Homeshield Spacer profiles. **NOTE:** Will not work with Slim Line/Narrow profiles. Different widths, other Spacer brands, and all Slim Line Narrow profiles require custom Die Sets. These Custom Dies are manufactured to customer samples. Contact CRL Glass and Glazing Technical Sales for machine details and specifications. F.O.B. Los Angeles, California. Minimum order is one each.



CAT. NO. DSBD1

## CRL Muntin Bar Bender

- For Fabricating Curved Insulating Glass Units
- Each Unit is Custom Made By CRL

The CRL Muntin Bar Bender easily bends Muntin Bar for Insulating Glass units with arched sunset patterns, as well as circular units. Any width of 3/16" (4.8 mm) thick Muntin Bar can be shaped with just a few quick passes. It has an easy-to-read indicator dial for quickly and accurately making repetitious bends.

The MMBD1 includes one set of Dies. If additional widths of muntins are going to need bending then an additional set of Dies will need to be ordered. If using Muntin Bars not sold by CRL then three each 36" (914 mm) samples of muntin must be sent to CRL. This is due to the tight machining tolerances needed to produce this precision piece of equipment. If you are using CRL brand Muntin Bar just specify the CRL catalog number that the Dies should be made to work with. Contact Glass and Glazing Technical Sales for machine details and specifications. F.O.B. Los Angeles, California. Minimum order is one each.



CAT. NO. MMBD1

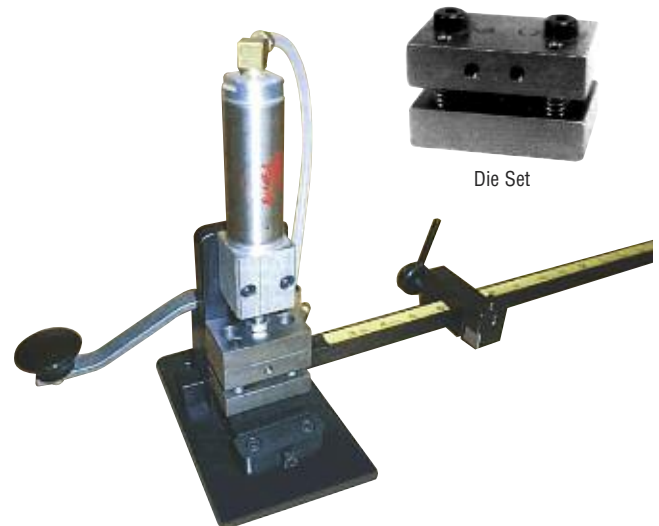
## CRL Air Powered Muntin Clip Punch

- Accommodates 3/16" to 7/8" Aluminum Spacers
- For Single or Two-Prong Muntin Bar Clips

This CRL Air Powered Muntin Clip Punch is designed to accommodate 3/16" to 7/8" (4.8 to 22.2 mm) Spacers, and will punch holes for single or two-prong Muntin Bar Clips. It operates on air pressure from 50 to 250 PSI, and comes with a computer print-out Muntin Bar Spacing Chart. The chart shows machine stop settings for muntins up to 80" (2.03 m) long and up to six openings.

The Punch comes complete with a Stop Bar, one size Air Spacer Die, and one size Muntin Spacing Chart. When ordering, specify spacer and muntin sizes. Air Spacer Dies are available in all standard sizes. Specify centerline or off-center muntin clip holes when ordering Spacer Dies.

There are three available models to choose from, depending on what type of Muntin Bar Clip you are using. Customers ordering the MBKP1 will receive one Punch and Die with the unit. Spacer width and brand name must be designated. Additional widths of spacers require additional Dies. Customers must provide samples of their muntin clip (6 each) and spacer (4 each 6" [152 mm] long), unless they are using CRL components. Multiple Head Muntin Clip Punches (up to five heads) are available for larger production shops. Contact CRL Glass and Glazing Technical Sales for machine details and specifications.



Air Powered Muntin  
Clip Punch

Die Set

CAT. NO.	DESCRIPTION
MBKP1	Air Powered Muntin Clip Punch Die Set for the MBKP1
MBKPD1E	

Minimum order: 1 each. F.O.B. Canton, Michigan

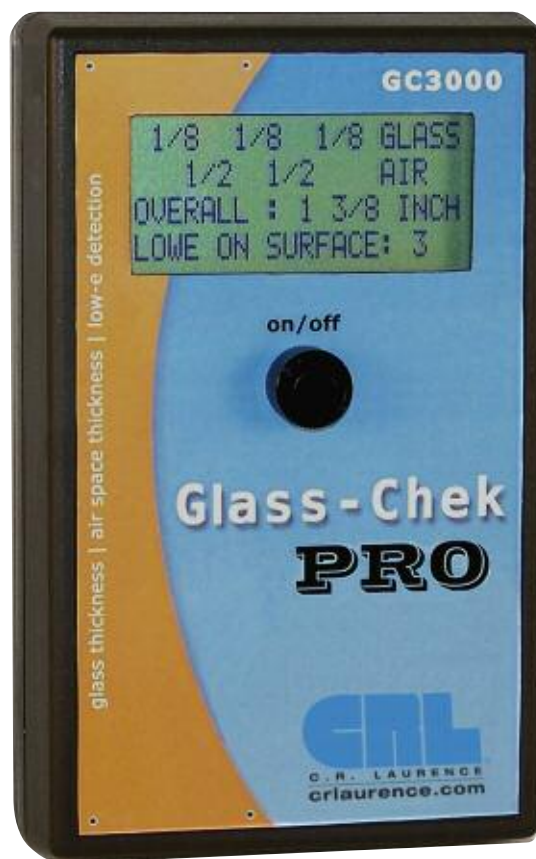
## CRL Glass-Chek PRO Glass Thickness Meter and Low-e Coating Detector

- Triple Pane Thickness Measurement
- Full Low-e Detection Capabilities
- Enhanced Compatibility Means More Applications

GC3000 Glass-Chek PRO measures glass, air space and overall IG thickness of triple pane windows, all with a single test from one side of the window. It works with single and double pane applications as well.

The GC3000 is a fully equipped Low-e Coating Detector capable of locating a Low-e coating on any surface of a double pane window from a single side. This is a major time saver for testing multi-story buildings where you only have access to the inside of the window.

No other meter in the world can handle the same combination of applications. With an expanded thickness range to 1-1/2" (38 mm), the Glass-Chek PRO is compatible with residential and commercial glass. It is also compatible with new Low-e coatings, suspended film (i.e., Heat Mirror), tinted glass, laminated glass with Low-e against the laminate layer, and most commercial reflective glass. Minimum order is one each.



CAT. NO. GC3000

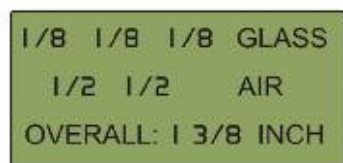
- Reduce Measurement Errors
- Measure Glass Deflection in Sealed IG Window Assemblies
- Uses a 9-Volt Battery – Common and Easily Replaceable
- Protective Carrying Case is Included
- Simple to Use Suitable for New or Experienced Window Installers, Production Personnel, Building Inspectors or Surveyors
- Made in the U.S.A.

### Choose from Multiple Display Formats

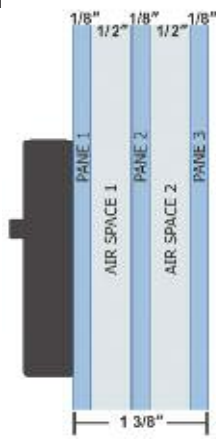
You can set up the Glass-Chek PRO to display measurement results in the format that works best for you. Choose from actual values or rounded (to ASTM Standards) in fractions of an inch, thousandths of an inch, decimals of an inch, millimeters, and more.

### Glass Thickness Capabilities Illustration

Measure the thickness of each pane, each air space, and the total IG thickness in single, double, and triple pane windows.



Display example outlining the glass, air space, and overall thickness of a triple pane window. Example shows readings in fractions of an inch, but the meter can be easily set up to display readings in other formats.



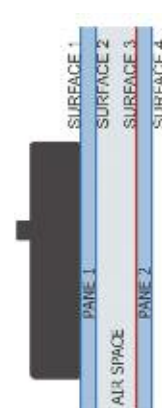
Total Thickness  
Triple Pane Window

### Low-e Coating Detection Illustration

Detect the presence and location of Low-e coatings on any surface of the first two panes. The meter will specify whether the coating is on surface one, two, three/four or "CLEAR" if no coating is present.



Display example indicates the Low-e coating is on surface 3 of the window. This means the coating is on the inside surface of the second pane. The GC3000 will detect coatings on any of the surfaces of a double pane window and most triple pane windows.



Double Pane Window



## CRL Glass Thickness Laser

- Measures Thickness of Air Space in Sealed Insulating Glass Units and Overall Unit Thickness
- Measures From Inside of the Building – No Glass Removal is Necessary
- Uses Laser Technology for Exact Measurements
- Calculates Thicknesses of Insulating, Laminated, Bullet Resistant, and Single Lite Float Glass
- Simple to Use – Just Press a Button and Read the Measurements

The CRL Glass Thickness Laser is a breakthrough in glass measuring devices. It will give you the same exacting readout as digital units costing hundreds more. Not only does the MG1500 measure standard Insulating Glass units, but it will also measure triple-glazed I.G. units, laminated glass, Low-e surfaces, and multi-layer bullet resistant glass. Best of all, the MG1500 is accurate from either side of the unit, so removal of the panel is not required. This is especially convenient in multiple-story buildings.

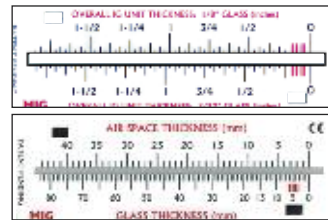
Designed for use in the field, glaziers and inspectors alike can easily carry it in their shirt pocket, on their belt, or just about anywhere the convenient carrying case will fit. The MG1500 is powered by two AAA batteries, which are included.

**IMPORTANT NOTE:** Avoid looking into laser beams at all times, as they can cause damage to your eyes.

- Fractional Inch and Metric Measurement Models



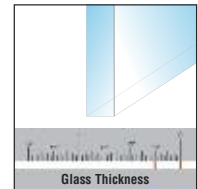
Overall Insulating Glass Thickness Scales



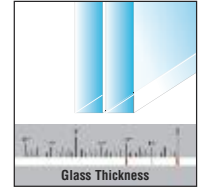
Fractional Inch and Metric Scale Sets are Interchangeable

CAT. NO.	DESCRIPTION
MG1500	Fractional Inch Laser
MG1500MM	Metric Laser
MG1500SS	Fractional/Metric Scale Set Only

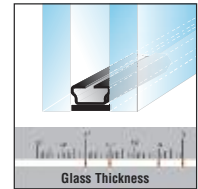
Minimum order: 1 each.



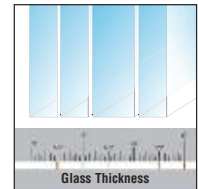
Float Glass and Mirror



Laminated Glass (Any Thickness)



Double and Triple Glazed I.G. Units



Bullet Resistant Glass (Any Combination of Thicknesses)

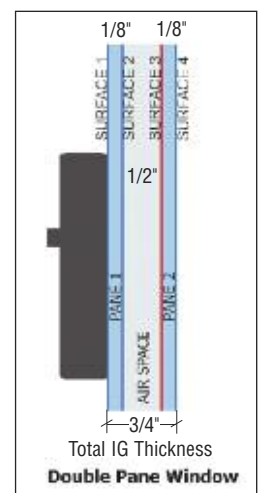
## CRL Glass-Chek+ Digital Glass Thickness Meter With Low-e

- Measures Insulating Glass Units – Thickness of Lite, Air Space, and Overall Thickness Up to 1-1/2" (38.1 mm)
- Detects Low-e Coating and Compatible With Tinted Glass
- Factory Calibrated, Needs No Field Adjustments
- Digital Readout in Decimal, Fractional, and Metric

The CRL Glass Chek+ Digital Glass Thickness Meter with Low-e Sensor is descended from the single pane Low-e coating detector, however the GC2001 is now able to differentiate whether the Low-e is on Surface 1 or Surface 2 of the glass. Another one of the biggest improvements is its ability to test tinted glass and the newest Low-e coatings that have been introduced in the past few years. This unit is capable of testing the thickness of single or double pane windows. Simply press the Glass-Chek Meter against a single lite of glass, or a dual lite window assembly, push the button and hold it until the measurements are digitally displayed. The thickness of each lite of glass, the air space, and the overall thickness of the unit will simultaneously appear on the two-line liquid crystal display. Unit can be read in decimal, fractional and metric. For best results, clean the window prior to testing. Uses one 9V DC battery (included). Minimum order is one each.



CAT. NO. GC2001  
Glass-Chek+



## CRL Insulating Glass Caliper

- Measures Insulating Glass Unit Thickness in Sliding Windows and Doors
- Quick and Easy to Use
- Fractional or Metric Scales on Both Sides



**CAT. NO. 1G CAL**  
Fractional Inch  
Caliper Shown

The CRL Insulating Glass Caliper makes it easy to measure the overall thickness of insulated glass panels in sliding windows and doors even when the panels have been glazed into a sash frame. This useful tool will measure up to 4" (102 mm) thick panels. The calibrated scale appears on both sides for quick and convenient measurements. Made of a high impact resistant composite material for durability.



CAT. NO.	DESCRIPTION
<b>1G CAL</b>	Fractional Inch Caliper
<b>1G CALMM</b>	Metric Caliper

Minimum order: 1 each.

## CRL Insulating Glass Thickness Gauge

- Works on Dual or Triple Glazed Units From 7/16" to 1-1/4" (11 to 32 mm) Thick
- No Opening or Disassembly of Windows Required
- Also Measures Thickness of Single Pane Windows



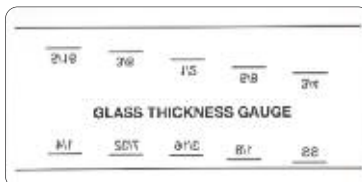
**CAT. NO. 4848913**  
Glass Thickness Gauge

The CRL Insulating Glass Thickness Gauge is a precise tool designed to accurately measure the glass thickness and overall unit thickness of multiple glazed windows in fractional increments. It works on any clear glass unit from 7/16" to 1-1/4" (11 to 32 mm) overall thickness. There is no need for exposed edges or openings, as the Gauge works by reflections, using a line-of-sight viewer that targets the exact thickness of the unit. The supplied reflector unit is held in place by a suction cup base. It is a time and money saver for anyone in the Insulating Glass field. Minimum order is one each.

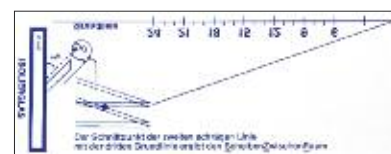


## CRL Glass Thickness Gauges

The CRL Glass Thickness Gauge measures single pane thickness even when it is not possible to measure the glass from the edge. Place the long edge of the Gauge against the glass and tilt the Gauge upward to a 45 degree angle to the glass surface. Look into the glass at the reflection of the Gauge and compare each short line with the long continuous line. Pick the one short line that is shown in the reflection within the same plane as the long line, and read the glass thickness measurement as indicated above that line. This is your glass thickness. Minimum order is one each.



**CAT. NO. G1340**  
Fractional Gauge



**CAT. NO. GTG1**  
Metric Gauge



## CRL Sales Demonstration Tools for Insulating Glass Units

- **High-Tech Aids to Show Your Customers the Benefits  
of Your Energy-Efficient Insulating Glass Units**

Convincing prospective customers to select your Insulating Glass units can be made easier with the proper demonstration aids. These new Meters help you show your customers that installing high performance Insulating Glass units will make a difference in the energy consumption costs and the comfort of their home.

Telling your customers how good your units are is one thing, but actually demonstrating it with the help of these precision meters will give you the edge over your competition. Choose our complete Sales Demo Kit (below) or individual meters (see opposite page). For additional information on these helpful sales tools go to [crlaurence.com](http://crlaurence.com).



## CRL Solar/UV Sales Demo Kit

- **Kit Includes Window Energy Profiler**

The CRL Solar/UV Sales Demo Kit can bring your Insulating Glass presentation to life, and help you convince prospective customers to select your energy efficient Insulating Glass units. This kit features the 4-in-1 Powerful Window Energy Profiler, which simultaneously reads the Solar Heat Gain Coefficient (SHGC), UV Transmission Percentage, Visible Light Transmission, and Infrared Transmission Values. This is the perfect sales tool to evaluate your customer's existing windows and compare them to your sales samples to confirm their need for new Insulating Glass units. The Kit comes with a Window Energy Profiler, an Infrared Heat Lamp, and Temperature Gun. The soft-sided Carrying Case has padded locations to hold your own insulating glass samples, and a set of factory glass samples for comparison. Additional details are available at [crlaurence.com](http://crlaurence.com). Minimum order is one each.



CAT. NO. SK1740



## CRL Window Energy Profiler

- Tests Windows in Frame Without Removal
- Simultaneously Displays Percentage of Allowable UV Transmission, Percentage of Visible Light, Percentage of Infrared Light Transmission, and Solar Heat Gain Coefficient

The CRL Window Energy Profiler is the latest in high-tech testing meters to determine the energy efficiency of dual glazed window and door glass. This meter simultaneously displays the four most important values to determine a glass panel's energy efficiency: UV Light Transmission, Visible Light Transmission, Infrared Light Transmission, and the "SHGC" (Solar Heat Gain Coefficient). Contractors and Building Inspectors can quickly tell if new windows and doors being installed meet code requirements.

This is a great tool to use during home sales demonstrations for potential homeowners to show the difference between their current windows and the newer types of energy efficient Low-e glass. One of the best features of the Energy Profiler is its design. The "U" shaped body allows a glass panel to be tested without having to remove it from the sash or frame. The Profiler calibrates itself automatically, and powers down automatically, prolonging the life of the single 9V DC Battery. The unit comes complete with a padded Carrying Case. Additional details are available at [crlaurence.com](http://crlaurence.com). Minimum order is one each.



CAT. NO. WP4500

## CRL Spectrum Detective Energy Transmission Meter

- Simultaneously Displays Three Measurements at Once: UV Transmission, Visible Light, and Percentage of Infrared Transmission Values
- Tests Single, Double, or Triple Panes



UV Transmission %



Visible Transmission %



Infrared Transmission %

The CRL Spectrum Detective Energy Transmission Meter provides a convincing test to show the energy efficiency of your Insulating Glass units. Three performance values are displayed simultaneously: UV Energy, Visible Light, and Infrared Energy. Simple to operate and completely portable, it requires no additional light sources or power cords. Comes with a protective Carrying Case and 9V DC Battery. Additional details are available at [crlaurence.com](http://crlaurence.com). Minimum order is one each.

CAT. NO. SD2400

## CRL Strengthened Glass Detector

- Identifies Glass That has Been Heat-Strengthened
- Tests Single or Double Panes
- Indicates Thickness of the First Pane of Glass



The Strengthened Glass Detector will allow users to confirm if glass has been heat strengthened. The Detector can test single panes of glass or multiple panes in a window at a single time, and from a single side. The glass can be tested in the factory, or after being installed in the field. This portable, battery-powered unit is convenient and simple to use. Simply slide the meter across the glass and conveniently watch the reflections from the glass head on. As the meter crosses stress lines in the glass (caused by the strengthening process), the resulting surface reflections from our wide array of light sources will change color.

The special optics of the SG2700 provides a robust change in color, and is great for applications where the stress lines are more difficult to view. The SG2700 Detector can even identify the thickness of the first piece of glass in the window. Conveniently portable size with a protective Carrying Case. Comes with a 9V DC Battery. Additional details are available at [crlaurence.com](http://crlaurence.com). Minimum order is one each.

CAT. NO. SG2700

## CRL Heat Strengthened Glass Detector Kit

- Instantly Determines Heat Strengthened Glass
- Illuminates Stress Areas
- Simple and Reliable



The CRL Heat Strengthened Glass Detector Kit provides a simple and reliable means of determining whether glass panels are heat treated by illuminating the stress zones created by the heat strengthened process. By shining the specially filtered, battery operated light source on the reverse side of the glass, and observing through the special glasses included with the kit, stress zones become rainbows of color. Annealed glass will remain clear when viewed using this technique.

Kit comes complete with Flashlight Light Source, Filtered Glasses, two "D" Cell Batteries, and a padded Carrying Case along with detailed instructions. You will want extra kits for your service department personnel and your quality control specialists. Minimum order is one each.

CAT. NO. HSGD1

## CRL Digital Surface Resist Meters

- Four Point Sheet Resistance Meters
- 9-Volt Battery Included

**new**



CAT. NO.  
RC2175



CAT. NO.  
RC3175

The resistance of a thin film coating is directly proportional to the resistivity and is an important quality control component of a coating. Therefore, resistivity may be the largest single item to determine the repeatability and function of a coating. Sheet resistance has the units of ohms, but it is convenient to refer to it in ohms per square since the sheet resistance produces the resistance of the coating within any square area. This parameter is therefore measured using the 4-point technique. Pocket Size Protection for Production, and Quality Assurance personnel who must know their products are "coated" properly.

CAT. NO.	RANGE	RESOLUTION
RC2175	0 - 20,000 ohms/sq.	0 - 2,000 = 1 ohm 2,000 - 20,000 = 10 ohms
RC3175	0 - 199.9 ohms/sq.	0.1 ohm

Minimum order: 1 each.

## CRL UV Transmission and Power Meter

- Checks Strength of UV Curing Lamps
- Displays UV Transmission Percent or Power Readings
- Measures Temperature in F° or C°



This CRL UV Transmission and Power Meter is the most versatile product available for measuring UV. You can measure UV intensities (irradiance), and UV Transmission percentage. Perfect for checking the output of your UV curing lamps to set benchmarks or you can even confirm the protection level of your UV spectacles, goggles, and facemasks. An added feature allows you to also measure temperatures in Fahrenheit and Celsius. Unlike other UV products on the market, this Meter is extremely simple to operate. The digital display is continually updated with real-time readings. Powered by a 9-volt battery (included). Minimum order is one each.

CAT. NO. UV1365

## CRL Digital Tin Side Detector

- Digital Technology
- Easy-to-Read Meter Identifies the Tin Side of Float Glass
- UV Lamp is Not Required



The CRL Digital Tin Side detector determines the tin side of float glass without the use of an ultraviolet bulb. There are several advantages to using digital technology to determine the tin side, such as being able to use this meter on either side of the glass. Just position up to the glass surface and depress the button, the large display clearly states if the meter is on the tin side, or if the tin is on the opposite side. With this new technology, the user no longer has to interpret the reflection of the UV light to make a subjective guess as to which surface is the tin side. There is no need to replace UV bulbs with this new Digital Meter, and the digital technology makes this meter very rugged, portable, and more energy efficient than other models. Operates on one 9V DC Battery. Minimum order is one each.

CAT. NO. TS2300

## CRL UV Lamp Tin Side Detector

- Battery Powered UV Lamp Identifies the Tin Side of Float Glass
- Includes UV Protective Spectacles



The CRL Tin Side Detector can identify the tin side of any piece of float glass by using short-wave ultraviolet light. This special lamp causes the tin to become visible in a milky white color. When the lamp is held to the air side, no color change takes place, just a dull image of the UV lamp is reflected. The short-wave UV light cannot transmit through the glass, therefore no change is noticed in the reflection and the milky color is not present. Some applications include auto glass fabrication, glass tempering, and the manufacture of mirror and other types of coated glass. The detection of the tin side is necessary in the processing of these types of glass. **NOTE:** Requires four "AA" Batteries, which are not included. Minimum order is one each.

CAT. NO. UVGA

## CRL Commercial Tin Side Detector

**new**

- The Solution Glass Processors Have Been Waiting for
- More Rugged Design
- Includes UV Protective Spectacles



The new Commercial Tin Side Detector has a momentary power switch which allows users to pulse the lamp, making it much easier to see the tin side glow. Also included is the patent-pending stencil insert that mounts behind the lamp. With the removable stencil in place, it is possible to read the words "TIN SIDE" on the edge of the glass when placed on the tin surface - even in well-lit environments. When placed on the tin side of glass, the fluorescent lamp image glows visibly. When placed on the non-tin side, the lamp image appears normal. Powered by three AA batteries (included). Minimum order is one each.

CAT. NO. TS1320

## CRL Tin Side Detector

**new**

- A Valuable Tool for Tempered Glass, Laminated Glass, Screen Printing, and Specialty Coating Applications
- Includes UV Protective Spectacles



The CRL Tin Side Detector allows you to determine the tin side of float glass. The instrument can test clear float glass or glass that has other specialty coatings applied to it in most applications. When the lamp is placed on the tin side of the glass, the fluorescent lamp image glows visibly. When placed on the non-tin side, the lamp image appears normal. This new design is powered by three AA batteries (included), however, it runs 50% longer than competing models. This new instrument is centered around a custom designed UV source that is more rugged and efficient than previous models. Minimum order is one each.

CAT. NO. TS1301



## CRL Conductive Coating Detector

- Red Indicator Lights Up On Contact With Low-e
- Edge Stop Restricts Use to Edge of Glass, Prevents Scratching
- Small Enough to Fit in Your Shirt Pocket

The CRL Conductive Coating Detector provides positive identification of the Low-e coated side of glass upon direct contact with the glass surface. This tool will prove itself invaluable to insulating glass fabricators who need to verify coatings and assure correct assembly procedures using Low-e glass. With edge stops designed into the housing, there is less chance of accidental scratching in the center viewing area. Window fabricators and quality control departments can verify that no Low-e surface is inadvertently exposed. Minimum order is one each.

**new**



CAT. NO. CD1

## CRL Non-Contact Detector

- Single Button Activation
- Visual Red LED Indicator and Audible Signal Announces Coating Found
- Helps Assure Manufacturers and Customers that Coating is Present
- Slips Comfortably into Shirt Pocket or Briefcase

The CRL Non-Contact Detector is a durable, dependable tool for use by fabricating, sales, and service personnel who need to verify the presence of Low-e glass coatings. Lay the CD2 against the glass surface and push the button to activate. A red LED indicator light and an audible signal will announce the presence of a Low-e coating on either surface one or two. Minimum order is one each.

**new**



CAT. NO. CD2

## CRL Dual Purpose Detector

- Switches Between Direct Contact and Non-Contact Modes
- Visual and Audible Signals Indicate Low-e Presence
- Maintains Calibration at all Times
- Compact, Reliable, and Efficient

The CRL Dual Purpose Detector combines the features of the CD1 and CD2 Low-e Detectors in one convenient, compact tool. The CD3 switches between direct contact mode and indirect presence mode to identify which side of the glass light has received the Low-e coating. It is ideal for in-shop quality assurance personnel, field service crews, sales people, building inspectors, and code enforcement staff. Minimum order is one each.

**new**

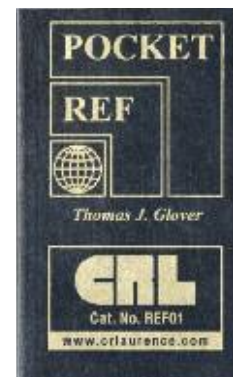


CAT. NO. CD3

## CRL Pocket Reference Book

- Tool and Construction Specs; Info on Paints, Finishes and Adhesives; Metric Conversions; and Lots of Useful Information

The CRL Pocket Reference Book is a wealth of information. Use it for tool and construction specs; get info on paints, adhesives and finishes; convert metric measurements; get electrical ratings and equivalents; solve math, geometry, and chemistry problems; look up area codes. It even has a 12 year perpetual calendar! There's a ton of useful data in this over 500 page reference that fits on your desk or in your glove compartment.



CAT. NO. REF01

## CRL Double-Pane Low-e Coating Detector

- Detects Invisible Low-e Coatings
- Ensures Windows are Installed Correctly
- Wide Temperature Stability
- Low-Battery Indicator

The CRL Low-e Glass Coating Detector senses the presence (or absence) and location of thermally resistant coatings (Low-e) used on single strength and double strength energy efficient glass from a single side. This helps to ensure windows are installed correctly.

This second generation tool offers enhanced reliability and temperature stability over its predecessor. Simple indicator lights check clear, near, or far surfaces. The unit requires one 9V DC Battery, which is included. The low-battery sensor causes the indicator lights to blink when the battery needs replacing. Minimum order is one each.



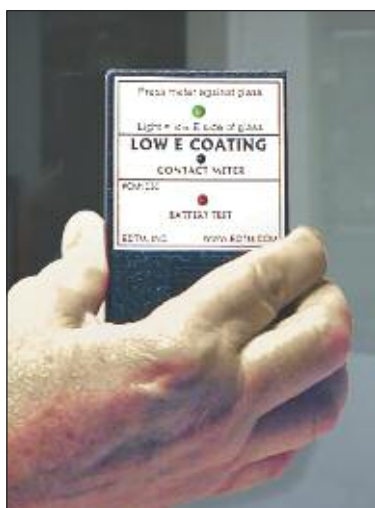
CAT. NO. AE1601

## CRL Low-e Coating Contact Meter

- Detects Hard or Soft-Coat Low-e Applications
- Reduces Costly Mistakes in Manufacturing
- Economically Priced

The CRL Low-e Coating Contact Meter is a simple instrument that detects any conductive surface, including Low-e coatings, on a single sheet of glass. The Meter has four non-scratch pads on the reverse side that you press against the glass to determine if that surface has any conductive Low-e coatings.

The CM1030 is the ideal tool to use during the manufacture of Low-e Insulating Glass units. You can easily check glass surfaces for coatings without any extensive training. If the Meter detects a coating on the surface an indicator lights up to signal its presence. One 9V DC Battery is included. Minimum order is one each.



CAT. NO. CM1030

## CRL Solar Transmission and BTU Power Meters

**new**

- Demonstrate Your Product's Solar Performance
- Displays Solar Transmission and BTU Power Readings



These innovative CRL Solar Transmission and BTU Power Meters demonstrate both the solar transmission percentage of your window and, with the press of a button, the BTU values. The SP1065 reads radiant solar power in BTU's or watts. The SP2065 also can be switched to transmission mode to read solar transmission percentage. The SP2065 is included in the Cat. No. SK1740 Sales Demo Kit (shown on page 618K), or you can order it separately. Meters come with a 9V DC Battery. Additional details are available online at [crlaurence.com](http://crlaurence.com). Minimum order is one each.



CAT. NO. SP1065



CAT. NO. SP2065

## CRL Merlin Lazer Glass Measuring Gauge

- Quickly and Accurately Identify Laminated Glass
- No Glass Removal Necessary
- Available Only in Europe

Our CRL Merlin Lazer Glass Measurement Gauge is a very simple but effective precision measurement instrument that provides accurate measurement of single glass and air gap thickness in single, double, and triple glazed units. It is also able to identify laminate interlayers at a touch of a button. All readings can be taken from one side without the need to remove the glass. Minimum order is one each.



Available Only in Europe

CAT. NO. 0480

## CRL Pilkington® K Glass™ Detectors

- Identify Low Emissivity Low-e Coated Glass
- For Single and Double Glazed Glass
- Comprehensive Instructions Included

Our CRL Pilkington® K Glass™ Detectors have been developed to distinguish low emissivity coated glass from ordinary float glass. These units are available for single glazed or double glazed units.

- Available Only in Europe



Available Only in Europe

CAT. NO. 0472S

CAT. NO. 0472D

CAT. NO.	DESCRIPTION
0472S	Single Glazed Glass
0472D	Double Glazed Glass

Minimum order: 1 each.

## CRL Low-e Coating Detectors

- Reduce Costly Mistakes in Manufacturing
- Identify Low-e Coating in the Field Quickly
- Available Only in Europe



Available Only in Europe

The CRL Low-e Glass Detector senses the presence (or absence) and location of thermally resistant coatings used on single strength and double strength energy efficient glass (maximum air space of 1/2 inch (12.7 millimeters). This helps to ensure windows are manufactured correctly. Simple indicator lights check clear, near, or far surfaces. Minimum order is one each.

CAT. NO. AE3600

## CRL Merlin Lazer Low-e Coating Detector

- Easily Identify Low-e Glass at the Touch of a Button
- Ideal for Checking Document L Compliance
- Available Only in Europe



Available Only in Europe

The CRL Merlin Lazer Low-e Coating Detector is a dual-purpose tester designed to detect Pilkington® K Glass™ and all other low emissivity coatings on single and double glazed units, and to indicate on which surface it is present. Installers and inspectors can verify the presence of the coating and the correct orientation of the unit. Minimum order is one each.

CAT. NO. 0482

## CRL Merlin Lazer Toughened Glass Indicator

- Quickly Verify Whether Glass Has Been Toughened
- Identify From One Side Only
- Available Only in Europe

The CRL Merlin Lazer Toughened Glass Indicator is able to indicate toughened glass in single and multi-pane units from one side only at the touch of a button. This makes it an ideal solution to safely determine whether glass has been toughened or not. Minimum order is one each.

Pilkington is a registered trademark of Pilkington Group Limited Corp.



Available Only in Europe

CAT. NO. 0481



## CRL 360 Degree Rotary Work Table

- **Speeds Production of Insulating Glass Units**
- **2' x 3' (610 x 914 mm) Carpeted Surface**
- **Holds Units Up to 5' x 7' (1524 x 2134 mm)**

The CRL Rotary Work Table speeds production of Insulating Glass units while creating a safer work place. The glass is held in position by a 6" (152 mm) vacuum cup on a 24" x 36" (610 x 914 mm) carpeted surface. Vacuum Cup system is powered by a continuous-flow vacuum generator which requires a 35 psi air supply (not supplied) regulated at the table. A 360 degree air driven braking system stops and holds the table-top in any rotational position. Both the vacuum hold-down and braking systems are controlled via tandem foot-pedal controls. Swing-out support arms expand the top surface to 60" x 84" (1524 x 2134 mm). Work surface height is 36" (914 mm). Shipping weight: 140 pounds (63.5 kg). Minimum order is one each.

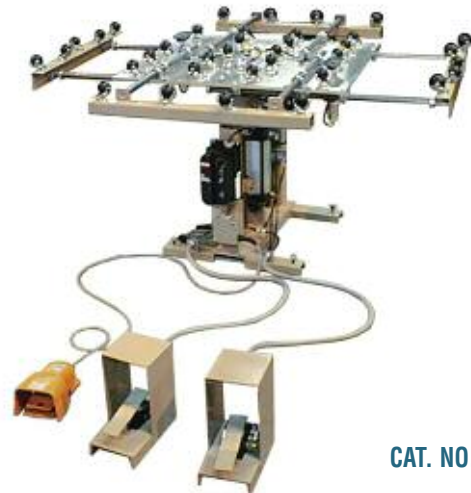


CAT. NO. LCS3084

## CRL Power Rotating Sealing Table

- **360 Degree Rotating Table**
- **Extendable Arms Handle Large Insulating Glass Units**

The CRL Power Rotating Sealing Table seals single or stacked Insulating Glass units weighing up to 400 pounds (181 kg). The tabletop is raised and lowered by a 5" (127 mm) bore x 8" (203 mm) stroke pneumatic cylinder. Vacuum cups are raised and lowered by two 1" (25 mm) bore x 1" (25 mm) stroke pneumatic cylinders. Table rotation is powered by a DC drive motor with speed control. The directional rotation switch and speed control are mounted on a control panel on the table frame. All other controls are actuated by a foot pedal. Table rotates only in raised position. F.O.B. Red Oak, Texas. Shipping weight: 900 pounds. (408 kg). Minimum order is one each.



CAT. NO. PRST

## CRL Positioner Vacuum Cup Work Stand

- **360 Degree Rotation**
- **Safely Handles Work Loads to 150 Pounds (68 kg)**

This CRL Positioner Vacuum Cup Work Stand is designed to hold glass or other non-porous materials up to 150 pounds (68 kg) in the position you set. The stand is great for window manufacturers when attaching hardware, assembling small I.G. units, or for anyone who needs to repetitively hold glass in a pre-determined position. It has full 360 degree edgewise rotation and a 90 degree forward tilt. A small, quiet 115V AC pump supplies constant vacuum to the 9" (228 mm) cup. Positioners feature adjustable pad height, foot valve vacuum release, 9" (228 mm) cup, vacuum pump, clamp and base. Shipping weight: 100 pounds (45 kg). Minimum order one each. F.O.B. Laurel, Montana.



CRL Positioner Vacuum  
Cup Work Stand with  
Table Mount Clamp

CAT. NO. POSB1P9AC



CRL Positioner Vacuum  
Cup Work Stand with  
Pedestal Base

CAT. NO. POSF1P9AC

To see the complete selection of CRL Insulating Glass products, see our catalog CRL83R, pages 797W-852W or visit us at [crlaurence.com](http://crlaurence.com).

## CRL Low-e Glass Edge Deletion Table

- Manual Table Easily Removes Glass Coatings
- Tubular Steel Construction With Adjustable Legs
- 2" (51 mm) Non-Marking Roller Balls Allow Glass to Move Easily

Glass lites with Low-e coatings must have the coating removed from the edge that will be sealed. The EDT60X84 Edge Deletion Table makes removing Low-e coating fast and easy. An operator moves one edge of the coated glass through the abrasive wheel, then runs the other three edges through the wheel and passes the finished sheet on to the next step. A HEPA Vacuum is included to collect particles from the edge wheel. Motor is 3/4 HP, single phase, 50/60 Hz, 220V AC. Made in the U.S.A.



CAT. NO.	TABLE TOP SIZE
EDT60X84	60" x 84" (1.5 x 2.13 m)

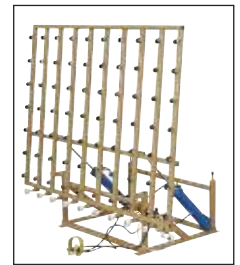
Minimum order: 1 each. F.O.B. Cicero, Illinois. Must ship via common carrier.

## CRL Power Ball Caster Tilt Tables

- Aids Transfer of Insulating Glass Units or Single Lites of Glass
- Raises and Lowers by Pneumatic Cylinder Action
- All Tubular Steel Construction With Adjustable Legs



For more information on Insulating Line Production Equipment and Services, call our Machinery Division at (866) 583-1377, or e-mail to [machinery@crlaurence.com](mailto:machinery@crlaurence.com).



The CRL Power Ball Caster Tilt Table tilts to a vertical position for the lateral transfer of single sheets of glass or Insulating Glass units. Its heavy 2" (51 mm) square by 1/8" (3 mm) thick tubular steel construction supports any size load. The neoprene Casters are 2" (51 mm) in diameter, spherical balls that will not scratch the glass. The table height can be adjusted from 34" to 36" (863 to 914 mm). **NOTE:** 100 psi, seven cfm air supply is required for operation. Made in the U.S.A.

CAT. NO.	TABLE TOP SIZE
PBCTT84X120	84" x 120" (2.13 x 3.05 m)
PBCTT84X144	84" x 144" (2.13 x 3.66 m)
PBCTT84X156	84" x 156" (2.13 x 3.96 m)
PBCTT84X168	84" x 168" (2.13 x 4.27 m)
PBCTT84X192	84" x 192" (2.13 x 4.88 m)

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

## CRL Ball Caster Transfer and Inspection Tables

- Exclusive Neoprene Spherical Ball Casters
- Tubular Steel Construction With Adjustable Legs
- Available in 60" (1.52 m) Width on Special Order



Inspection Table



Transfer Table



These CRL Ball Caster Tables are for lateral transfer and inspection of single lites of glass and single or multiple Insulating Glass units. The legs and base are made from 2" x 3" (51 x 76 mm) tubular steel which can be adjusted for heights from 34" to 36" (864 to 914 mm). The table tops are constructed from 2" (51 mm) square tube steel. The 2" diameter neoprene Ball Casters won't scratch glass. Ball Casters are mounted on 12" (305 mm) centers. Custom 6" (152 mm) center mounts are available by special order. Inspection Tables are built with a cutout to allow an operator to get closer to the glass. All Tables are MIG welded and finished in industrial enamel to resist oxidation. Made in the U.S.A.

CAT. NO.	TABLE TYPE	TABLE TOP SIZE
BCT84X60	Transfer	84" x 60" (2.13 x 1.52 m)
BCT84X84	Transfer	84" x 84" (2.13 x 2.13 m)
BCT84X120	Transfer	84" x 120" (2.13 x 3.05 m)
BCT84X156	Transfer	84" x 156" (2.13 x 3.96 m)
BCT84X168	Transfer	84" x 168" (2.13 x 4.27 m)
BCT84X192	Transfer	84" x 192" (2.13 x 4.88 m)
B6212100	Inspection	84" x 60" (2.13 x 1.52 m)
BC1NPT84X156	Inspection	84" x 156" (2.13 x 3.96 m)
BC1NPT84X192	Inspection	84" x 192" (2.13 x 4.88 m)
BCT24XT12	26" x 31" (660 x 787 mm) Extensions for B6212100 - Set	

Minimum order: 1 each. Cat. No. BCT24XT12 is 1 set. F.O.B. Cicero, Illinois. Must ship via common carrier.

**“More solar energy hits the earth in one hour than all the energy  
the world consumes in a year.”**

-Nate Lewis, Professor of  
Chemistry at the California  
Institute of Technology

## **CRL Engineers Create Glass Washing and Handling Solutions That Allow Solar Panel Manufacturers to Increase Production and Efficiency**

The CRL Machinery Division is an industry leader in manufacturing glass cleaning, mirroring, edging, and handling equipment. Whether your need is to produce concentrators, thin film panels, or Crystalline Silicon components we have the solution.

Glass may not be the heart of the modern solar panel, but it is the medium on which the latest Photovoltaic Panels (PV) and Concentrating Solar Panels (CSP) are built. Glass remains the most economical base for utilizing these clean energy technologies. CRL Glass Processing Equipment is designed and built in our Cicero, Illinois manufacturing plant. If you have a unique process scenario, our in-house engineers can develop a custom solution to meet your application. Contact our Glass Machinery Division today for fast, reliable solutions to all your solar panel manufacturing process.

## **CRL Products for Solar Panel Fabricators**

- **Panel Wash, Rinse, and Dry Modules**
- **Oscillating Surface Scrubber Modules**
- **Connecting, Buffer, Oven, and Accumulator Conveyors**
- **Over-Spray Cleaning Modules**
- **Roller-Bed Conveyors and Belt-Edge Conveyors**
- **Glass Edging Machinery**

Contact our Glass Machinery Division at (866) 583-1377 or at [machinery@crlaurence.com](mailto:machinery@crlaurence.com)





## CRL Mirror Production Lines



Concentrated Solar Power (CSP) systems use mirrored panels to focus energy to a thermal collection point. Low-iron glass panels with one silver-plated mirror surface are best suited for these concentrators. CRL Machinery has the experience of building specialized sections and every component of these completely conveyORIZED Solar Mirror Production Lines. Contact our Glass Machinery Division at (866) 583-1377 or e-mail [machinery@crlaurence.com](mailto:machinery@crlaurence.com) for more information.

## CRL Heavy-Duty Solar Series Glass Washers

- Ideal for Photovoltaic Glass Cleaning
- Stainless Steel Construction
- 35' (10.7 m) Per Minute Standard Conveyor Speed
- Stainless Flowmeters and Flow Controls for All Compartments



HDSS Heavy-Duty  
Glass Washer



The Solar Series Washer can be built into any processing line or configuration where clean panels are needed. It can also be used as a stand-alone production section for component pieces. This Solar Series Washer splits open at the conveyor pass line to simplify service. A power-driven, safe lift-top is optional.

The CRL Heavy-Duty Solar Series Washer features a stainless steel cabin, covers, and pans. The cleaning sections include a pre-spray for removal of packing powders and loose contaminants. Next, washing and rinse sections with cylindrical brushes thoroughly clean the panel's surface. Then a high pressure turbine drying system removes all moisture from the panel. The roller journals, brush shafts, and recirculating coolant systems are all stainless steel. All panels and electrics are UL certified. Available options include filtration, conductivity monitoring, static elimination, and sound control.