

Serving Professional Window Cleaners for 100 Years

# 100th Anniversary

1909 - 2009

## J. RACENSTEIN CO.

Window Cleaning Supplies

09

### Win Thousands

in Window Cleaning Equipment

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Water-Fed Systems

NEW 09



Water-Fed Pole catalog inside!



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Serving the window cleaning industry since 1909, and into the future.

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Visit our online library for more articles and instructional videos:  
[www.jracenstein.com/library](http://www.jracenstein.com/library)

IT'S OUR BIRTHDAY...  
AND YOU GET THE GIFTS!

SEE PAGE 4 FOR DETAILS ON HOW YOU CAN WIN PRIZES WORTH MORE THAN \$50,000.



## Window Cleaning Tools

Squeegees, Channels, Rubber, T-bars and Washers: (16) Ettore, (18) Unger, (20) IPC Pulex, (22) Sörbo, (24) Window Cleaning Kits, (25) 3-Star, (27) WagTail, Steccone, Ledger (28) Buckets, (31) Brushes, Steel Wool, (30) Scrub Pads, Sponges (31) Towels, Wipes (32) Holsters and Belts



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*Times are tough and we want to help.  
Look for this logo throughout the catalog.*



## Extension Poles & Ladders

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## Water-Fed Pole Catalog

Look inside for our special insert, a catalog dedicated to Water-Fed Poles and Water Purification Systems featuring Ettore, Ionic, IPC Eagle, Tucker and Unger.

## Grow Your Business

*This new section describes exciting ways window cleaners can add revenue by selling additional services to their existing customers. In each section we outline some of the key factors of the offering and show you the tools you need to succeed.*

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Floors are cleaned several times a week, you do the math.

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Birds make a big mess and cause significant damage. You can make big money installing bird deterrent systems.

### 72 Awning Care

Awnings are an expensive investment. You can make money cleaning and protecting them from the elements.

### 73 Green Cleaning

The new buzz-word in the industry. See new chemicals that will help you be green.

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Special chemicals and tools can help you make extra money when your customer's building is hit with graffiti.

### 75 Solar Panel Care

Solar panels are springing up everywhere and have special needs.

### 76 Nano-Technology

Protecting your customer's glass will preserve it and make it easier to clean.

### 77 Gutter Cleaning

New tools allow you to make more money faster.

Joseph Racenstein started selling squeegees to New York window cleaners from his Manhattan apartment in 1909. One hundred years later we supply the US industry out of warehouses in New Jersey and California. But we still believe, as our founder did, in providing window cleaners with the best products and treating you with top notch customer service. If we ever fail to exceed your expectations please call us and tell us. Thank you so much for your business over the years; we look forward to being your preferred source in 2109.



## It's our birthday, but you get the gifts!



### Thousands in Prizes

*Thanks to the generosity of the industry's best manufacturers you can win valuable window cleaning tools and equipment as prizes, every month. As of press time more than \$30,000 in prizes had been pledged; every penny is prizes that go to you, the professional window cleaner.*



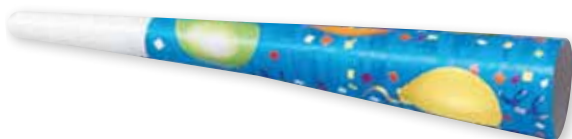
### → It's simple!

Watch an online video from our monthly partner and answer a few questions. Winners will be drawn randomly from those that submit responses. That's it.

- » Visit [jracenstein.com](http://jracenstein.com) once a month and click on **100th Anniversary Contest** where you can register and start watching.
- » Send us an e-mail to [100@jracenstein.com](mailto:100@jracenstein.com) or call us at 800-221-3748. Give us your name, e-mail address, company name and phone number.

Every month, we'll e-mail you a link to the new video.

*We are sorry but we cannot notify you by phone every month. If you don't have e-mail please call us and we can send you a fax reminder.*





# NEW09

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Carbon & Steel Wool Pads

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Ettore Pro+ Super System Handle

[17]

Ettore Pro+ Super System T-bar



IPC Pulex

IPC Pulex TechnoLite Handle & Channels



[20]

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Microfiber & Chamois Sponges

ETTORE



[36]

NanoTech Glass Sealant

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Nevr-Dull Glass Cleaner



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Ettore Utility Handles



Ionic Water-Fed Poles & RO/DIs

ionic SYSTEMS

WFP8

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Sky Genie 4-point Chairs

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PowerBoost Solar Panel Cleaner

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WFP = Water-Fed Pole Catalog, see insert >



At J. Racenstein we always strive to make things as easy for our customers as possible. As an example, below you will find product listings by brand name. We hope this helps you find the products you are looking for.



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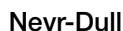
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Our home page has links to a great deal of valuable information. Whether you're a beginner or an industry veteran, you'll find useful tidbits here.

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Just click for the MSDS for chemicals and solutions.



The vast majority of window cleaning is pretty basic; dirty glass is easily cleaned using water, a glass cleaner, a scrubber (washer sleeve), and a squeegee. Unfortunately (or fortunately depending upon your perspective), mineral deposits, residue and other forms of pollutants are more stubborn, and don't simply wash away using this method. More serious tools are commonly used to remove these tougher problems and make the Window Cleaner look like a star.

Most people don't realize that glass is not actually perfectly smooth; if it was it would be easy to remove most forms of dirt. Glass surfaces are pitted with microscopic indentations and this allows solids to bond to the surface. Fortunately for you, a variety of chemicals (starting on page 36) can be used to rid glass of even the most stubborn deposits. Here is a list of the types of dirt and damage you will come up against, and some of the tools you can use to restore the glass to almost new condition.

**PROBLEM: Everyday Grime**

**SOLUTION: Glass Cleaners**

All windows are subject to climate conditions such as pollution, acid rain and automobile exhaust. Inside, they can be abused by smoking, heating and air conditioning fumes, and fingerprints. Perfect cleaning of a clear surface (both sides) demands a solution that will reduce drag, and not bleed, streak or dry out, and is strong enough to work for an extended period of time. Dish soaps are not designed for cleaning glass, and often leave a residue that gets dirtier faster. See Glass Cleaners on page 36.

**PROBLEM: Oxidation**

**SOLUTION: Mild Chemicals & Abrasives**

Oxidation, also known as etching, hazing or screen burn, occurs when metals around windows (frames, screens, etc.) are exposed to rain or humidity and deteriorate causing oxidation. This oxidation runs down the glass and penetrates (or clings to) the glass. Mild acids, like Crystal Clear 550, or abrasives like Sörbo Stain Remover (often combined with fine steel wool) are often all that's required to remove the oxidation. See Oxidation Removers on page 42.

**How to Succeed**

Most experienced window cleaners have a wide variety of these chemicals and cleaners with them at all times so they can experiment with the problem. They also know to discuss the pros and cons of various solutions with the owners. And most importantly, when testing the solutions, they work in small, discreet areas in case the solution damages the glass or does not remove the residue.

**PROBLEM: Hardwater Stains**

**SOLUTION: Chemicals and Abrasives**

Hardwater stains occur when sprinkler water hits the building or rainwater travels over concrete or a precast surface of a building and carries tiny particles from that surface onto the window. After the rainwater dries the mineral deposits are very hard to remove. Acid rain and sprinkler stains are of the same nature due to the high concentration of minerals present in the water. Much like Oxidation, mild chemicals and abrasives will take care of most problems.

**PROBLEM: Overspray, Construction Leftovers**

**SOLUTION: Scrapers and/or Chemicals**

Most common on new structures, the process known as Construction Cleanup involves removal of paint, stucco, tape, caulking, stickers and other substances that end up on new glass. A razor scraper is generally the answer, but many times chemicals make cleaning the window faster, and may prevent scratching of the glass (see Scraping on page 11). Chemicals should be used if mortar, concrete or stucco has been splashed on the windows. If the glass has been burned by acids, chemicals are the only possible remedy other than replacement. See Scrapers on page 33 - 35, and Oil-Flo on page 40.

**PROBLEM: Scratches in Glass**

**SOLUTION: Aggressive Abrasives, Sanding**

Unfortunately, scratches are common on glass; graffiti artists have found glass panels on office buildings and shopping centers to be rich terrain. There are no chemicals that can repair scratches, they can only be removed by basically sanding or grinding the glass around the scratch down to a level deeper than the deepest part of the scratch. There are two ways this can be attempted; strong abrasives like compound polish used on cars, or pads that are basically very fine sandpaper. Both techniques are applied with electric drill motors that spin and grind the glass down. Rougher grades are used first for deeper cutting, and finer grades are used to deliver smoother glass. See page 39. There is specialty equipment designed for larger jobs or businesses that make quick work of scratch removal.

**PROBLEM: Glass Ages and Fogs**

**SOLUTION: Protect After Cleaning**

Like other parts of a building, glass ages from exposure to sun and other pollutants. More importantly after chemical cleaning, the glass can be even more susceptible to these conditions. Fortunately, glass can be protected with liquids that are applied almost like car wax (you may be familiar with Rain-X on car windshields). Building owners need to understand that the life expectancy of their glass can be greatly extended if the glass is protected. See Glass Protectants on page 43.



Everyday Grime	tOxidation	Hardwater Stains	Overspray	Protectants	Metal Maintenance
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*With so many different handles and channels to choose from; it can be a little unnerving for someone new to understand what to choose and why. Traditionalists love the classic brass handles, and they are still available, but newer technologies have put more useful features on the table. Here we'll help you understand your options so you can work effectively in the field.*

## QUICK-RELEASE HANDLES

Traditional squeegee handles have two screws that need to be loosened and tightened to change out a channel or rubber. The manufacturers all offer Quick-Release handles that do just what their name implies; they save the hassle of finding a screwdriver and making the change. Many of these quick-release handles also incorporate the clipless technology (see below). Ettore's quick-release is on top of the handle for easy thumb action. Pulex's Stutz handle holds everything together (except their Alumax channels), while Unger's ErgoTec® handle is Quick-Release, clipless and ergonomic. Some professionals now carry only one quick-release handle on their tool belt because they can easily change out a variety of channels.



Ettore

Pulex

Sörbo

## PIVOTING HANDLES

Most manufacturers now offer squeegee handles that pivot or rotate. This feature is generally important if you are using poles; the rotation allows you to pull your squeegee from side to side and not just straight up and down. Some of the pivots, like Unger's Swivel-Lok actually lock into exact positions which can be an attractive feature. Others, like Ettore's Super System and Sörbo's Pivoting handle do not lock, but are stiff so they generally stay where you want them (you can adjust the tension on both of these). Mr. LongArm's Pro-Curve extension pole is bent and features a rotating squeegee handle; this feature allows you to incorporate the fan technique while using a pole (see the Pro-Curve on page 48). Like most window cleaning tools, the handles are pretty inexpensive, so try a few and find out what you like using the best.



Sörbo's handle pivots on a tightened screw, the tension holds it in place.

Unger's Swivel-Loc locks in place when the black slide is pressed into the corresponding hole

ProCurve's curved pole and rotating handle actually allows the squeegee to pivot from side to side while up on the glass.

## CLIPLESS HANDLES

As you probably know the squeegee rubber must be held inside the channel or else it will slide out one end (good for us, bad for you). Traditional squeegees are held inside the channels with little clips that usually wrap around the rubber then force-fit inside the channel. The clips can be fidgety and hard to manipulate, and are often lost. New technologies from each of the manufacturers offer some sort of clipless feature. Generally this means the handle grabs the rubber, effectively locking the handle, channel and squeegee rubber together all at once; simply unlatch the handle and slide the rubber out of the channel. This is a big time saver.



Unger's ErgoTec® handle

1. Press tab on bottom with thumb
2. Slide channel under the tab
3. Release the tab, make sure teeth hold rubber through notch in the channel

## ERGONOMIC HANDLES

Over their careers, professional window cleaners can literally move their hands thousand of miles in very repetitive motions; thus carpal tunnel is a serious problem in the industry. Both Ettore and Unger offer ergonomic squeegee handles that make life easier for you. Ergonomic handles are usually lighter, and offer shaped grips that better fit the human hand. They are certainly worth a try.



Ettore's ProGrip

Unger's ErgoTec®

## SIZE MATTERS; CHANNELS & WASHER BARS

Anyone who tells you size of a squeegee doesn't matter is pulling your leg. Cleaning windows with washers and squeegees is a labor intensive trade; washers (T-bars with water-soaked pads) and squeegees travel thousands of feet every day for professional Window Cleaners. The sizes of your t-bar and squeegee channel are directly related to the number of times your arm must move back and forth to get the job done.

Imagine a large window that is already scrubbed (wet and ready to be squeegeed). If you have a relatively small squeegee (eight to ten inches) in your hand, you might run your arm back and forth twenty or more times. This process could take more than a minute. Now, if you have a longer squeegee in your hand (18 to 24 inches), you could probably use half of the arm swipes, and do the job in half of the time.

Sörbo Samuelson of Sörbo has taken it to the limit, and offers channels up to 48 inches. "Why should I move my arm about like a crazy man for five minutes when I can pull my arm across once or twice and get the job done just as well?" asks Samuelson to illustrate his point.

The same logic carries over to the washer bar and sleeve. It's even more of a factor with washers because a washer generally passes back and forth over the same spot several times during the scrubbing process.

So why would you need smaller channels and washers? For smaller windows. Professionals that specialize on residential windows generally carry a variety of tools with them. "For downstairs with lots of large windows and sliding glass doors," says a residential window cleaner in Ohio, "I use longer washers and squeegees. But for the upstairs I generally rely on my smaller tools." French doors can demand tools down to a small as five or six inches.

However, there are drawbacks to longer tools. They tend to flex and therefore need to be stronger, and thus heavier. And large panes of glass aren't exactly flat, so longer squeegees may not necessarily deliver the desired results. Sörbo's 48" squeegee actually has a reinforcing bracket that attaches to the channel in two places to apply equal pressure to the channel. Longer tools also are more cumbersome and messy to carry around in smaller, sensitive areas.

Take a good look at all the offerings from the squeegee manufacturers, or talk to other window cleaners; you'll come to find that a variety of squeegee and washer lengths are a must.

*A big labor saver - Small squeegees on a big window (left) take many more times across to clean the window. With a larger squeegee (right) it takes far less effort and time to clean the same window. Result? More money in your pocket.*





Scrapers are one of the most important tools in a Window Cleaner's tool belt. Windows regularly need heavier cleaning than soap, water and a washer sleeve can provide. To remove paint, tape, stickers and construction debris like stucco or caulk, a razor-sharp scraper is a must.

Scrapers are precision instruments that must be used and maintained properly. They are also extremely sharp, so great care must be taken in their use, handling and storage.

Window cleaning scrapers are available in blade-lengths up to six inches, so large areas of glass can be cleaned with less effort.

**THE RIGHT TOOL**

All J. Racenstein's scrapers are presented in this catalog starting on page 33. Triumph, Ettore and Unger all offer scrapers ranging from three inches up to six inches. They all feature well made handles that hold the blade in a perfectly straight channel. If you do a lot of scraping you'll want a strong but light handle. Triumph offers angled handles, heavy duty handles, and one that has a closing mechanism for quick open and closing (most other scrapers have covers that need to be removed and then snapped back on).



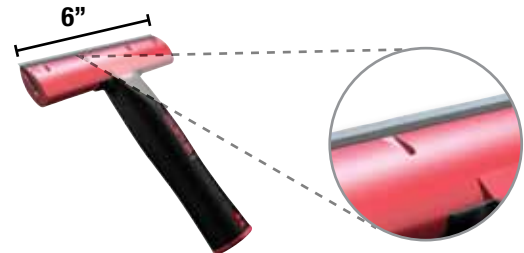
**Triumph's Blade Dispenser**  
It's absolutely safe, new and used blades each stay inside their own secure compartments.



**A Must Have**  
A pocket sized scraper will handle tough work in small areas.

**HOW TO SCRAPE**

- There are several important rules to consider when scraping:
- Only scrape wet glass, adding soaps helps even more
  - Only push a scraper, never pull it back. Small bits of glass debris (see below) can get caught under the blade and scratch the glass
  - Apply even pressure holding the blade flat against the glass
  - Approach edges slowly so you don't cut caulk or damage frames
  - Never scrape windows with tinted or mirrored film, the scraper will cut it and even lift it off the glass

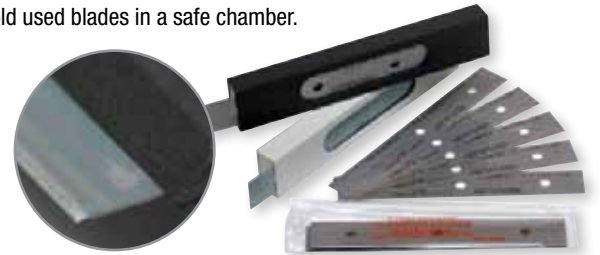


**The Industry Standard**  
Triumph's plastic handle with a six-inch razor-sharp blade; this will clean almost anything.

**Don't Touch**  
The razor-sharp blade is held securely in the handle's reinforced channel.

**SELECTING THE RIGHT TOOL**

The blade is what actually makes a scraper worth its weight in gold. A good blade is a precisely made, ultra-sharp and very thin piece of metal. If the blade isn't perfectly true it will not function properly. Looking straight down the blade when installed in the tool should reveal a perfectly true edge. The blades are commonly available in stainless steel or carbon steel. Carbon steel is preferred for heavy usage because it's thicker and a little stronger, but the blades generally rust quickly, so they're really only good for one days' use. Stainless steel blades are far more resistant to rust, they are thinner and not quite as durable as carbon; if you only scrape occasionally, the stainless steel is the way to go. The blades are sold in ten or 25 packs, and come in clever dispensers that safely distribute one blade at a time, and also hold used blades in a safe chamber.



**The Blades**  
Available in stainless steel or carbon, they come in different sizes and quantities to meet every need.

**CAUTION...WATCH OUT FOR GLASS DEBRIS SCRATCHES**

Believe it or not, some new glass is delivered with small (invisible to the naked eye) imperfections; small flecks of glass that become affixed to the glass surface during the manufacturing process. Window manufacturers don't admit it's there, but it is. Scraping windows with "debris" can be hazardous to your financial health; the debris can break loose and scratch the glass. If you feel or hear little "tic-tic-tic" sounds while scraping, STOP SCRAPING.

Go to [www.jracenstein.com/forms](http://www.jracenstein.com/forms) for a Scraper Release form that your customer can sign.

**Fast and Safe**  
Triumph's Z-40, the only scraper with a sliding lid for quick access and extra safety.



Let's face a simple fact; a vast number of windows that need cleaning are out of the reach of hands, poles and even ladders. Windows on office buildings and other commercial facilities can only be reached with special equipment like window cleaning platforms, powered lifts, or even chairs hanging from the roofs with ropes, these are commonly referred to as chairs. In some cities the chairs are illegal; be sure to check with your local OSHA office before you consider using this equipment in your city. Be sure to take safety training classes designed for your geography.

It cannot be stressed enough how dangerous all these types of work are, and how a serious focus on safety is an outright requirement. Several window cleaners die each year when their **SAFETY EQUIPMENT IS EITHER USED INCORRECTLY, OR NOT AT ALL**. When using any of this specialized access equipment, it is imperative that safety harnesses are properly used, and that all parts of the safety equipment are regularly examined and replaced when appropriate. Below we describe the different ways buildings can be accessed, and the safety precautions that must be taken:

### SUSPENDED PLATFORMS

Like a hanging scaffold, the Suspended Platform provides a stable work surface for at least two people. The platform is raised and lowered with cables that are secured to davits (little cranes) on the roof. The davits and their mounting points must be professionally installed. Electric motors at each end of the platform raise and lower the platform. The workers in the platform must wear fall-prevention harnesses at all times, and their safety lines must be secured to independent mounting points on the roof; if the platform falls, the workers will hang in position until rescued. These suspended platforms are often owned by the buildings and stored on site. They can also be rented by specialist rental companies.

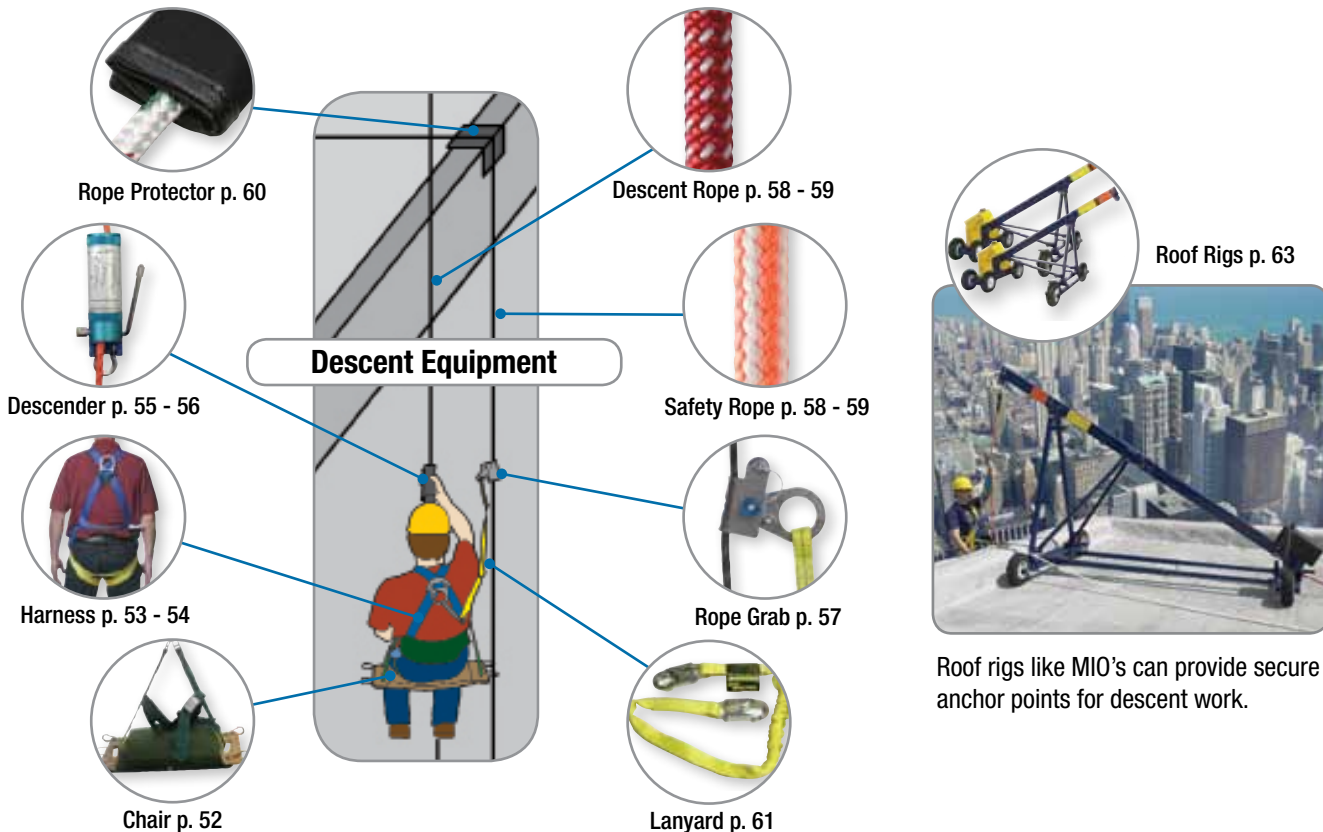
### MECHANICAL LIFTS

Boom lifts and scissor lifts are motorized platforms that Window Cleaners can stand on and manipulate to reach work areas. Safety harnesses with lanyards (attached to the lifts themselves, page 50 - 53 and 61) must be worn at all times. These lifts are typically rented by local companies, and are delivered on a large truck. Safety harnesses must also be worn when working on certain types of roofs and ledges.

### CHAIRS

These one-person devices can quickly get workers to the desired location. These chairs can typically only go down, so workers must go all the way down to the ground, unhook, then ride the elevator back up. There are several pieces of equipment necessary to safely utilize a chair system:

- A roof rig of some sort acts like a temporary davit, and can be moved along the edge of the roof and then secured; this gets the rope away from the edge of the building (see MIO's line on page 63). Descent and safety ropes can also be attached to approved anchors on the roof, but rope-protectors (page. 85) must be used where ropes go over parapets and other building features.
- Ropes (pages 58 - 59) are an integral part of a chair operation; one rope is used to support the worker's chair, another hangs next to the worker and acts as a safety line. The descent line and safety ropes must be attached to different approved anchor points on the roof.
- A descender (pages 55 - 56) is a device that attaches the chair to the rope, and allows the rope to slide through its mechanism so the worker can descend in a slow and controlled fashion.
- The full-body safety harness (pages 53 - 54) is worn by the worker. A "D" ring on his back attaches to a lanyard which attaches to a rope grab.
- Rope grabs do what their name implies, they grab the safety rope. These quality metal devices (page 57) can slide up a rope, but can only slide down if manipulated by the worker. The rope grab should always be above the worker's head to shorten a fall.



Roof rigs like MIO's can provide secure anchor points for descent work.

## Are You Green?

*A Look at How to be Green in the Window Cleaning Industry.*

### What is Green Cleaning?

Green cleaning is defined as cleaning to protect health without harming the environment. Green cleaning is an accepted movement that uses procedures and products to make cleaning for the health of building occupants, the cleaning personnel, and the environment a primary concern.

### Cleaning Chemicals and Health Problems

It has been found that some widely used cleaning products have adverse effects on the health of building occupants and the cleaners. The average person spends about 90% of their day indoors, where air pollution from diverse sources such as cleaners, upholstery, and carpeting can be up to 100 times greater than outdoor air. Some of the health problems caused by exposure to hazardous cleaning products range from eye irritation and coughing to chest pain, vomiting, cramps, and diarrhea. It is estimated that more than 10% of work-related asthma is derived from cleaning products.

Cleaning products can also harm the natural environment. There are over 70,000 chemicals being used today, and fewer than 2% have been thoroughly tested for their effects on human and aquatic life. Cleaning products are responsible for approximately 8% of non-vehicular emissions of Volatile Organic Compounds.

### Green Products

**Green Seal** - Green Seal is an independent, nonprofit organization that develops environmental standards for a number of products. Green Seal evaluations are based upon state-of-the-art science and internationally recognized methods. Green Seal developed the first product certifications in 1992 and has developed and released over 40 certificate programs. The Green Seal category for cleaning products is GS-37 Industrial and Institutional Cleaners." Green Seal certified products meet the GS-37 standard for reduced human and aquatic toxicity and reduced smog production potential.

### J. Racenstein offers two Green Seal certified cleaners:

Hydroxi Pro Concentrated Cleaner - Designed for Windows and Hard surfaces  
Hydroxi Pro Grout Smart - Designed for Grout and Natural Stone cleaning

### U.S. EPA - Designed for the Environment U.S. EPA

The Design for the Environment (DfE) program is one of the EPA's premier programs, working with companies to compare and improve the performance and human health and environment risks and costs of products. The products displaying the EPA DfE logo have been formulated in partnership with the EPA Design for the Environment Formulator Initiative. These products are designed to reduce risk to people and the environment by preventing pollution.

DfE's Formulator Program encourages partners to reformulate products to be environmentally safer, cost competitive, and effective. By providing chemical and toxicological information and suggesting safer substitutes, the Formulator Program reduced an estimated 40 million pounds of chemicals of concern in 2005.

### J. Racenstein offers two DfE Partnership products:

Green Logic Glass and Surface Cleaner - An environmentally sound formula for glass and hard surfaces  
Green Logic All Surface Degreaser - An environmentally preferred degreaser for oils, tar, fats and soil

There are several methods of identifying Green Cleaning. Some are applied to improving the products while others involve the products and their use in a system of cleaning, how the service and the products interact when used to clean.

USGBC and LEED certification programs for the systems and methods have been around since the early 1990's and have registered over 1,100 construction sites, building and projects as Energy and Environmentally Green. Green Seal is an independent organization that develop evaluation methods and certificate programs for products.

The EPA has a Designed for the Environment program that covers products and services.

Dozens of mainstream companies manufacture and distribute quality green cleaning products for businesses and institutions, and many of the largest cleaning firms now offer green cleaning services that use these products, often at costs comparable to their conventional counterparts.

One big influence is the U.S. Green Building Council's LEED rating system. Its LEED-EB standard, which certifies existing buildings, gives as many as 14 points for the use of green cleaning processes and materials and since it takes only 32 points to receive the basic level of LEED-EB certification, cleaning and maintenance loom large.

USGBC stands for the United States Green Building Council. It's a coalition of building industry leaders who came together in 1993 to promote environmentally responsible and profitable buildings that are also healthy places to live and work. The Council then developed the LEED certification program to provide guidelines and recognition for green buildings. LEED means Leadership in Energy and Environmental Design. Green means good business.

### Green Cleaning and LEED Certification

When it comes to greening your cleaning operations, LEED certification requires much more than just switching from traditional to green cleaning chemicals. According to the USGBC, LEED-EB focuses on seven major areas, each with their own certification standards and best practices.

- Facility Cleaning & Maintenance, including Chemicals
- Indoor Air Quality
- Energy Efficiency
- Water Efficiency
- Recycling Programs
- Exterior Maintenance Programs
- Systems Upgrades

Green products are formulated to be safer, effective, environmentally preferable solutions to professional cleaning challenges and work.

J. Racenstein is committed to leading the window cleaning industry into the future with Green products and technologies. Check out our web site for new products, and check out page 73 of this catalog for Green Cleaning products.

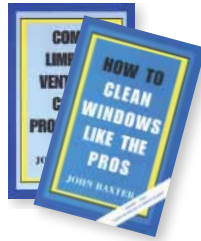




### How To Clean Windows Like The Pros

English & Spanish

- Learn the proper technique to clean windows with a professional squeegee
- An excellent tutor of ground level window cleaning
- Written by one of the most respected guys in the industry
- Includes tips and tricks, a trouble shooting section, advance squeegee techniques, extension pole use and more. You will learn how to bid or estimate windows on commercial and residential buildings.



### Straight Talk About Window Cleaning Bidding

- Take the guesswork out of bidding
- Helps you identify the important points behind the bidding process
- Learn the strategies for bidding on house window cleaning, storefront windows, mid-rise, high-rise, and post construction cleanup



80-102 \$29.00

English 80-101 \$14.50  
Spanish 80-103 \$14.50

### The Window Cleaning Business

The Window Cleaning Business book is for beginning and experienced window cleaners. In this step-by-step guide, you will learn how to:

- Start up a business
- Advertise and Market
- Choose equipment
- Keep your customers
- Organize your paperwork and
- Bid jobs
- Buy existing businesses
- Hire employees, and much, much, more.



### How To Earn Big Money With Your Own Residential Window Cleaning Business

- Perfect companion to the how-to DVDs
- Designed for the novice or would-be window cleaner
- Contains information on setting up your business with bookkeeping, permits, licenses, insurance and other practical information about promoting your business



80-201 \$53.00

80-104 \$25.00

### Fabricating Debris Awareness

A comprehensive education on the causes and prevention of scratched glass. Learn about:

- Tool selection and scraper usage
- Fabrication of heat-treated glass and the fabricating debris that often results
- Window protection
- What to expect on construction sites, as well as issues related to contract specifications,
- Release of liability waivers, and insurance coverage



### I-14.1 Window Cleaning Safety Booklet

The International Window Cleaning Association Window Cleaning Safety Standards

- Safety guidelines and important safety information regarding the use of window cleaning access equipment
- Addresses the safe design and manufacture of window cleaning access equipment.



77-614 \$58.40

80-911 \$45.00

### Federal Income tax for Window Cleaners

Learn to take deductions the proper way. Now a new tax book exclusively written for window cleaners to help organize business expenses for tax time.

This 88-page guide offers easy to follow instructions on itemizing your expenses properly. The book includes:

- Step-by-step instructions
- Examples of IRS forms needed for sole proprietorship businesses
- Blank forms for recording expenses



### Rope Techniques Book

Excellent reference on descending, ascending, rigging, self rescue, equipment, and much more. A must for the serious ropework scholar.

80-601 \$46.20



80-105 \$20.00

**IWCA CDs**

Instructional CDs from the IWCA

Residential Window Cleaning	79-501	\$30.00
Re-Invent Your Business	79-502	\$30.00
High Rise Window Cleaning	79-503	\$30.00
High Rise Glass, A Closer Look	79-504	\$30.00
More Profitable Business	79-505	\$30.00
Planning Ahead for Safety	79-506	\$30.00
Taking Business to Next Level	79-507	\$30.00
Chemical Awareness	79-508	\$30.00
Coaching Employees to Excellence	79-509	\$30.00
Fabricating Debris Awareness	79-510	\$60.00



**Professional Window Cleaning Tips For The Residential Window Cleaner DVD**

- Austin DenHerder will step you through the latest products for residential window cleaning
- Learn about product demonstrations and tutorials on which products to use and how to use them

79-701 \$61.20



**Window Cleaning Techniques with Joel Andrews, AKA The Glass Wizard**

- Brings the original Super Speed VHS plus all new footage and information on this newly released DVD
- Learn about the basic window cleaning tools & the techniques of using a squeegee with the proper angles and water flow to help you gain speed and confidence and water fed poles
- New material covers information on disciple, attitude, optimization of motion for speed, techniques, CC550, ladders and Screen Cleaning
- Excellent for the novice, intermediate or a method to train your new hires

79-610 \$50.00



**Safety Program CD**

Develop your own written safety and training programs in compliance with OSHA Regulations and the I-14.1 Window Cleaning Safety Standards. Personalize your own safety program covering everything from basic safety to fall protection. Assemble the pages in a binder for current and future employees. Contains Information on:

- Training and re-training documents
- Work plans and equipment inspections
- Safety meeting attendance sheets
- Chemical use
- Accident reporting forms
- Rope use and motor use log sheets
- Equipment safety guidelines

79-801 \$150.00



**Sörbo Techniques DVD**

Sörbo teaches you a fast way to learn residential window cleaning by using the "Z" and upside down "L" method. The "Eliminator" features labor reducing techniques for large store windows.

79-404 \$10.50



**Video Training**

- Learn how to use the Sky Genie Descender
- Learn about rope care

79-11 \$186.70



**Ladder Safety DVD**

Purchase the DVD of the seminar given at the 1998 IWCA San Antonio annual convention. The presenter, Roy Hereth of Royk.

79-710 \$59.20



All of the following Seminars are lead by Dan Fields with a question and answer session following the seminar. Dan has been active over 40 years, specializing in Construction Window Cleaning, Glass Restoration, and Scratched Glass.

*Purchase the Construction Window Cleaning Basics DVD and the Tempered Glass Defects DVD and Receive the Hard Water Spot Removal DVD for Free or purchase them separately.*

**Hard Water Spot Removal**

- Understand the differences between hard water spots, tin etch haze and glass corrosion.
- Dan discusses the use of chemicals like hydrofluoric and phosphoric acid for the removal of hard water satins and the problems associated with acid use
- Learn about the misconception of tin etch haze and offers suggestions on how to avoid this issue while removing hard water spots.
- A question and answer session follows each seminar section providing additional useful information

79-970 \$30.00

**Tempered Glass Defects DVD**

- Tempered Glass is a growing concern in the Window Cleaning Industry
- Learn what tempered glass defects are, how they occur and how to detect them
- Dan offers suggestions on how to protect yourself and your company
- A question and answer session follows each seminar providing additional useful information

79-911 \$90.00



**Construction Window Cleaning Basics DVD**

- Dan discusses his preferred tools, tips, techniques and procedures in this double DVD set on Construction Window Cleaning
- See demonstrations on how to use chemicals for removing stucco, paint and texture from windows, frames and sills without scratching the glass
- A question and answer session follows each seminar providing additional useful information

79-912 \$169.00

## squeegee handles

### Quick-Release Handles



Easy Action: Lift the plastic tab on the top and the jaw releases on the bottom. Nuts offer tension adjustment.



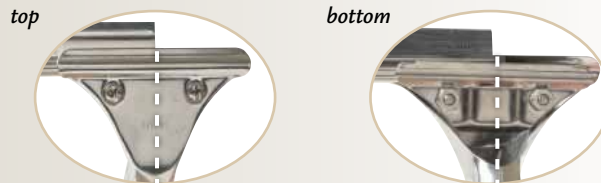
- a) Stainless Top-Clip** Quick release, rubber handle, stainless steel. 01-1212 \$8.00
- b) Brass Top-Clip** Quick release, solid brass, rubber grip. 01-1112 \$9.95
- c) ProGrip Handle** Ergonomic, quick release, cushion grip. 01-1113 \$10.10
- d) LedgeEze** Designed with extra reach. Great for deep ledges and window frames.  
Stainless 01-1215 \$8.25  
Brass 01-1114 \$9.55
- e) Pro+ Super System** New and improved swiveling handle with ergonomic design. It's quick release with a no-slip grip for ultimate comfort. 01-1122 \$11.50

**f) Pro+ Fixed** 01-1117 \$8.45

**The Contour** Re-engineered with a high-strength polymer material. Side-to-side swivel and spring-loaded up and down pivot. 01-1115 \$26.50



### Standard Handles



Loosen the Phillips screws on the top and the jaw releases on the bottom. It may be necessary to hold the nuts with a wrench.



- g) Classic Brass - The Master** Solid brass, the standard of the industry. 01-1111 \$7.40
- h) Stainless Handle** Traditional look and feel, modern construction. 01-1211 \$5.10
- i) Stainless Handle w/Rubber Grip** Rubber grip for added comfort. 01-1214 \$5.95
- j) Aluminum Handle** This aluminum version of the classic Ettore handle is 50% - 60% lighter than brass or stainless steel. 01-1411 \$3.85

PAGE 10 / How to select a Squeegee Handle



## channels

Ettore's squeegee channels share the same profile; they fit into all Ettore handles. They both use the Brass End Clips to lock the rubber tightly into position.

New aluminum channel that provides you with a featherweight alternative to traditional channels with uncompromising performance. **NEW09**

Ettore Channels		Brass		Stainless		Aluminum	
Size	Part #	Price	Part #	Price	Part #	Price	
6"	02-1061	\$5.15	-	-			
8"	02-1081	\$5.65	02-1082	\$4.60			
10"	02-1101	\$6.35	02-1102	\$5.15			
12"	02-1121	\$7.15	02-1122	\$5.40	02-1124	\$5.60	
14"	02-1141	\$8.00	02-1142	\$5.95	02-1144	\$6.40	
16"	02-1161	\$8.55	02-1162	\$6.60	02-1164	\$7.10	
18"	02-1181	\$9.10	02-1182	\$7.00	02-1184	\$8.15	
20"	02-1201	\$9.70	02-1202	\$7.80			
22"	02-1221	\$10.50	02-1222	\$8.10			

### Brass End Clips

Locks rubber in channel. 12/pack. 06-101 \$3.70

### Super Channel Handles

Quick Release 01-1311 \$10.00  
Contour Super System 01-1116 \$26.50

### Pro+ Super System

New and improved swiveling handle with ergonomic design made to hold the Super channel. It's quick release with a no-slip grip for ultimate comfort. 01-1313 \$12.25

### Ettore Super Channel System

Ettore's extruded aluminum channels are ideal for extra length, up to 36". The ridged profile reduces flex dramatically. Choose from three "quick-release" handles.

- 18" 02-1183 \$10.25
- 24" 02-1243 \$12.25
- 30" 02-1303 \$15.05
- 36" 02-1363 \$17.10



**BUDGET STRETCHER** save when you buy a gross

## replacement rubber

Ettore Steccone's original design has remained virtually unchanged since its inception in 1936. His secret was, and is, in the rubber. With the same secrecy and security afforded in soft drink formulas, the ingredients formulation of Ettore rubber is carefully guarded. For this is the essential heart of the system, a razor sharp square edge, supple, smooth, consistent which leaves glass perfectly clean and streak free.

Ettore Replacement Rubber			Gross (144)	
Size	Part #	Dozen Price	Part #	Price
6"	03-1062	\$16.25	-	-
8"	03-1082	\$18.75	-	-
10"	03-1102	\$22.50	03-1103	\$235.50
12"	03-1122	\$24.00	03-1123	\$257.00
14"	03-1142	\$25.75	03-1143	\$285.00
16"	03-1162	\$29.00	03-1163	\$290.25
18"	03-1182	\$30.00	03-1183	\$299.00
20"	03-1202	\$34.50	03-1203	\$363.50
22"	03-1222	\$34.75	03-1223	\$385.00
24"	03-1242	\$41.75	03-1243	\$450.50
30"	03-1302	\$53.50	03-1303	\$548.25
36"	03-1362	\$56.75	03-1363	\$618.00

### Ettore's Pro+ Line of Tools



## t-bars & washers



### ProGrip T-Bar

Ergonomic, no-slip grip.  
 10" 10-1102 \$6.40  
 14" 10-1142 \$7.25  
 18" 10-1182 \$7.80



### Taper T-Bar

Contoured handle.  
 10" 10-1101 \$5.65  
 14" 10-1141 \$6.30  
 18" 10-1181 \$6.75  
 22" 10-1221 \$7.50



### Pro+ Super System

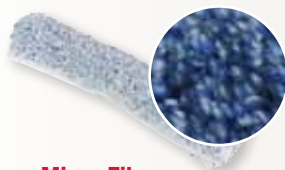
New, improved pivoting t-bar with rubberized grip. Made of a lightweight aluminum and polymer for prolonged use without fatigue.  
 10" 10-1104 \$8.75  
 14" 10-1144 \$10.10  
 18" 10-1184 \$11.00  
 22" 10-1224 \$12.50

**NEW09**



### Pro+ Aluminum

New, improved t-bar with rubberized grip. Made of lightweight aluminum and polymer for prolonged use without fatigue.  
 10" 10-1105 \$5.20  
 14" 10-1145 \$5.75  
 18" 10-1185 \$6.25



### Pro+ Micro Fiber

Advanced micro-fiber technology, super scrubber edge.

*Buy 12+*  
 10" 11-1102 \$12.50 *Save \$18.00*  
 14" 11-1142 \$14.50 *Save \$20.88*  
 18" 11-1182 \$16.00 *Save \$23.00*  
 22" 11-1222 \$19.00 *Save \$27.36*

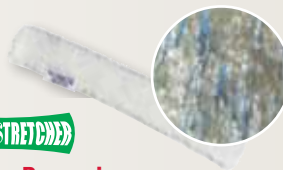


### Golden Glove

Heavy synthetic rugged fabric with double seams sewn at ends.

*Buy 12+*  
 10" 11-1101 \$8.10 *Save \$11.66*  
 14" 11-1141 \$9.45 *Save \$13.61*  
 18" 11-1181 \$11.25 *Save \$16.20*  
 22" 11-1221 \$12.75 *Save \$18.36*

**BUDGET STRETCHER**



### Porcupine

Heavy duty, white fiber sleeve with interwoven scrubbing bristles.

*Buy 12+*  
 14" 11-1144 \$10.25 *Save \$14.76*  
 18" 11-1184 \$12.50 *Save \$18.00*  
 22" 11-1224 \$13.25 *Save \$19.08*



### Dura Sleeve

Tough, durable and super absorbent.

*Buy 12+*  
 14" 11-1143 \$12.00 *Save \$17.28*  
 18" 11-1183 \$15.25 *Save \$21.96*  
 22" 11-1223 \$15.50 *Save \$22.32*

## accessories



### New Super Bucket 19" x 10" x 10"

An 18" strip washer fits into this 6 gal. bucket.

New Super Bucket Complete	20-115	\$96.75
New Bucket with handle only	20-116	\$32.25
New Snap on lid	21-120	\$10.00
New Casters (each)	21-121	\$3.35
New Drain Tray	21-122	\$14.00
Handle	21-111	\$12.00

### BackFlip

Four tools in one. Use individually or in time-saving combinations. Channel is 2" longer than washer. Parts can be used separately or together.

14" Stainless	12-1142	\$30.25
18" Stainless	12-1182	\$33.50
14" Brass	12-1141	\$31.40
18" Brass	12-1181	\$33.45
Handle Only	01-1213	\$6.10



Ettore Holsters  
*page 32*



Ettore Scrapers  
*page 34 - 35*



Ettore Soaps  
*page 36*

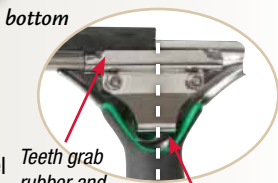
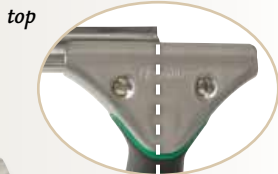


Ettore Poles  
*page 46*



## squeegee handles

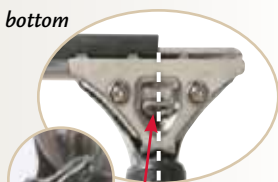
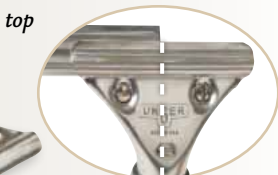
### Quick-Release Handles



**a) ErgoTec® Handle** Ergonomic, lightweight handle with a quick channel release and stainless steel head. Locks onto Unger's ErgoTec Locking Cone (see page 45).  
01-206 \$10.00

**b) ErgoTec® XL Handle** Ergonomic handle for big hands. Has all of the features of the ErgoTec squeegee handle + 0.95" of extra length.  
01-208 \$11.10

Teeth grab rubber and channel notches, no clips required. Press the tab to quickly change the whole channel, or just the rubber.

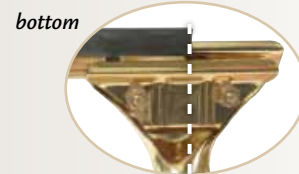


**c) GoldenPRO® Brass** Traditional brass. Fast-lock, ergonomic, non-slip rubber grip.  
01-205 \$9.30

**d) PRO StainlessSteel** Fast-lock handle with ergonomic, non-slip rubber grip.  
01-201 \$8.50

Open position. Pull the release lever downward to loosen the jaw. Teeth dig into the rubber.

### Standard Handles



Loosen the slotted screws on the top and the jaw releases on the bottom. It may be necessary to hold the nuts with a wrench.

#### GoldenClip® Brass

Solid brass handle with screw lock.  
01-204 \$6.20



#### Swivel Loc Squeegees

Swivels and locks in any position. Nylon with stainless steel back plate. 30° angled head cleans arched and narrow windows. The Straight locks channels with two screws; the angled handle is quick-release. Both handles accommodates brass and stainless channels.



Brass channels require clips.

Straight, Standard-Release 01-202 \$15.60  
Angled, Quick-Release 01-203 \$15.60



Angled; Quick-Release, see left.



Straight; Standard-Release, see above

## channels

Unger's Brass and Stainless Steel channels fit all their handles. When not using the ErgoTec handle, clips must be used on the stainless steel channels.

Steel Clipless Channels are designed for their quick release handles. The notched channel system will not slip side to side. See detailed photos above.



#### PlasticClips

For Unger Brass and Stainless Steel channels when not using a clipless handle. 40 per pack.  
06-201 \$4.00

#### Unger Channels

Size	Brass		Stainless	
	Part #	Price	Part #	Price
6"	02-2061	\$4.40	02-2062	\$4.65
10"	02-2101	\$5.65	02-2102	\$5.70
12"	02-2121	\$6.30	02-2122	\$6.55
14"	02-2141	\$7.30	02-2142	\$7.10
16"	02-2161	\$7.70	02-2162	\$7.40
18"	02-2181	\$8.25	02-2182	\$7.95
22"	02-2221	\$9.50	02-2222	\$9.30

## replacement rubber

Unger ErgoTec® Soft Rubber				((GET STRETCH))			
Size	Part #	Dozen Price	Save on 4+	Part #	Gross (144) Price	Save on 3+	
6"	03-20623	\$14.25	\$5.70	-	-	-	
8"	03-20823	\$16.50	\$6.60	-	-	-	
10"	03-21023	\$17.75	\$7.10	03-21033	\$179.00	\$53.70	
12"	03-21223	\$20.00	\$8.00	03-21233	\$204.00	\$61.20	
14"	03-21423	\$22.00	\$8.80	03-21433	\$228.75	\$68.63	
16"	03-21623	\$23.25	\$9.30	03-21633	\$239.00	\$71.70	
18"	03-21823	\$24.00	\$9.60	03-21833	\$249.00	\$74.70	
20"	03-22023	\$26.50	\$10.60	03-22033	\$285.00	\$85.50	
22"	03-22223	\$29.75	\$11.90	03-22233	\$306.75	\$92.03	
24"	03-22423	\$34.25	\$13.70	03-22433	\$359.00	\$107.70	
30"	03-23023	\$40.75	\$16.30	03-23033	\$429.75	\$128.93	
36"	03-23623	\$45.00	\$18.00	03-23633	\$469.50	\$140.85	

Hard rubber was designed to work in warmer working conditions. It will also last longer.

Unger Replacement Rubber - Hard				
Size	Part #	Dozen Price	Part #	Gross (144) Price
18"	03-21822	\$26.00	03-21832	\$305.25
22"	03-22222	\$33.45	03-22232	\$392.45
36"	03-23622	\$56.65	03-23632	\$636.75

### Soft Rubber 25-packs

UV-stable case telescopes from 12" to 28".

Size	Part #	Price	Buy 4+ Save
12" Soft Rubber	03-241	\$40.25	Save \$16.10
18" Soft Rubber	03-261	\$45.00	Save \$18.00

## t-bars & washers

### ErgoTec® T-Bar

Less strain, more control.

10"	10-2101	\$7.05
14"	10-2141	\$7.80
18"	10-2181	\$8.40

### StripWasher T-Bar

Water wells for retention.

10"	10-2102	\$6.10
14"	10-2142	\$6.85
18"	10-2182	\$7.30
22"	10-2222	\$8.25

### Swivel Strip T-Bar

Pivoting handle.

14"	10-2145	\$11.75
18"	10-2185	\$13.50

### Aluminum T-Bar

Lightweight aluminum T-bar with plastic handle.

18"	10-2183	\$9.70
36"	10-2363	\$13.25

### VisaVersa

Work up to 20% faster with washer and squeegee in one. Quick spring release handle.

14"	12-214	\$32.75
18"	12-218	\$35.75



### MicroStrip

Long-lasting MicroFiber sleeve for aggressive cleaning. Scrub pad. Superior dirt absorption.

Size	Part #	Price	Buy 12+ Save
10"	11-2104	\$13.75	Save \$16.50
14"	11-2144	\$15.75	Save \$18.90
18"	11-2184	\$16.75	Save \$20.10
22"	11-2224	\$20.25	Save \$24.30



### The Pad

Rough textured, non-abrasive nylon cleaning pad on one side and plush washer on the other.

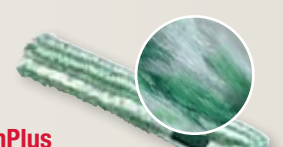
Size	Part #	Price	Buy 12+ Save
14"	11-2142	\$12.00	Save \$14.40
18"	11-2182	\$13.80	Save \$16.56



### The Original Strip®

Plush woven synthetic sleeve that is machine washable.

Size	Part #	Price	Buy 12+ Save
10"	11-2103	\$8.20	Save \$9.84
14"	11-2143	\$9.65	Save \$11.58
18"	11-2183	\$10.80	Save \$12.96
22"	11-2223	\$12.25	Save \$14.70



### MonsoonPlus

Heavy-duty sleeve for maximum water retention & superior water releasing.

Size	Part #	Price	Buy 12+ Save
10"	11-2101	\$12.00	Save \$17.28
14"	11-2141	\$14.00	Save \$20.16
18"	11-2181	\$15.75	Save \$22.68
22"	11-2221	\$18.50	Save \$26.64

## accessories



### ProBucket Complete 20-209 \$93.75

Rugged, all purpose bucket. Holds 24 quarts.

Bucket with handle only	20-211	\$33.75
Snap on lid	20-212	\$9.30
Casters (each)	20-214	\$8.25
Drain Tray	20-213	\$15.85
Bucket Barge	21-215	\$36.00

Barge not included in Bucket Complete

### Gloves

- Neoprene foam insulation with sealed seams to keep hands warm when wet
- A non-slip textured palm for a better grip.
- Protection from solvents and the elements
- Velcro strap for a great fit.

S	56-610	\$31.40
L	56-611	\$31.40
XL	56-612	\$31.40



### Unger Holsters

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### Unger Scrapers

page 34 - 35



### Unger Soaps

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### Unger Poles

page 45



## squeegee handles

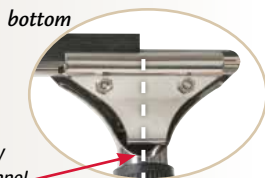
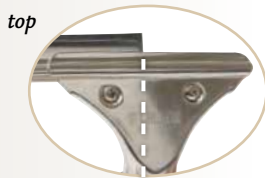
### Quick-Release Handles



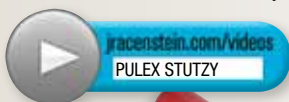
#### a) Stainless Handle w/Rubber Grip

Quick-release used with stainless steel channels with or without clips.

01-305 \$4.95



Press the tab to quickly change the whole channel, or just the rubber.



#### b) Stutzy Universal Swivel Handle

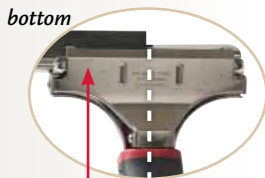
A swiveling Stutzy handle.

01-302 \$15.75

#### c) Stutzy Universal Handle

Quick release safety handle. A universal handle that can be used on all brass, stainless steel and aluminum channels (except Alumax) with or without clips. Safe to use on high-rise applications.

01-301 \$15.30



The back plate features teeth that dig into the rubber, holding it firmly in place without clips.

### TechnoLite Handle

This new ergonomic quick release handle has been extended so the user can adjust their grip to suit specific needs. It has a non-slip rubber grip with a special coating that helps it adhere to the user's hand.

01-308 \$8.15



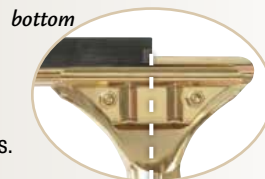
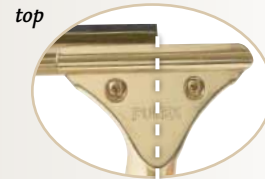
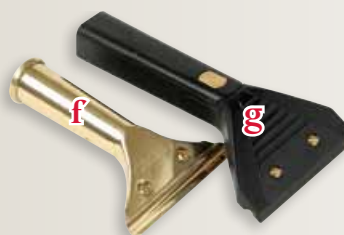
### TechnoLite Channels

Clipless Stainless Steel channel with notches designed for the Technolite handle.

- 12" 02-3125 \$2.95
- 14" 02-3145 \$3.35
- 16" 02-3165 \$4.10
- 18" 02-3185 \$4.25
- 20" 02-3205 \$4.70
- 22" 02-3225 \$4.95



### Standard Handles



**f) Brass** Traditional with screw lock. Used with all brass channels with clips.

01-303 \$5.25

**g) Swivel** Handle swivels for cleaning difficult windows. Use with brass channels.

01-304 \$7.40

Loosen the Phillips screws on the top and the jaw releases on the bottom. It may be necessary to hold the nuts with a wrench.

### Ultra-Lite Handle

A lightweight handle for use with the Ultra-Lite channels.

01-306 \$5.25



### Ultra-Lite Channels

Aluminum Squeegees are extremely lightweight. Made from high-impact aircraft-grade aluminum.

18" 02-3183 \$4.30

22" 02-3223 \$6.65



### Alumax Swivel Handle

Use with the Alumax channel only.

01-307 \$8.50



### Alumax Channels

Extruded and reinforced providing extra strength for their extra lengths.

18" 02-3184 \$9.30

24" 02-3244 \$11.00

30" 02-3304 \$14.00

36" 02-3364 \$15.00



NEW 09

## channels

### Brass

Use with brass handles, swivel or Stutzy handles. Made from extra stiff brass.



### Stainless Steel

Use with Pulex stainless handles or the Stutzy handles. A ribbed channel for extra strength. No clips required.

### Brass Clips

Locks rubber in channel. 100 per pack.

06-301 \$14.75

### Pulex Channels

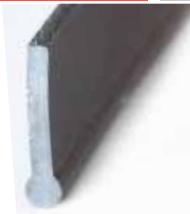
Size	Brass		Stainless	
	Part #	Price	Part #	Price
6"	02-3061	\$3.50	02-3062	\$2.95
8"	02-3081	\$4.00	02-3082	\$3.20
10"	02-3101	\$4.55	02-3102	\$3.50
12"	02-3121	\$4.80	02-3122	\$3.55
14"	02-3141	\$5.35	02-3142	\$4.25
16"	02-3161	\$5.85	02-3162	\$4.80
18"	02-3181	\$6.40	02-3182	\$5.05
20"	02-3201	\$6.95	02-3202	\$5.60
22"	02-3221	\$7.20	02-3222	\$5.90

save when you buy a gross

## replacement rubber

Pulex rubbers are made from a proprietary vulcanized and electronically tested blend of natural rubber and ingredients that produce a superior rubber squeegee blade. The Pulex rubbers maintain their sharp edge while resisting nicks due to various debris on the window surface and shocks against frames resisting in a longer squeegee life. Pulex = Total Quality Rubber!

IPC Pulex Replacement Rubber - Soft				
Size	Dozen		Gross (144)	
	Part #	Price	Part #	Price
6"	03-30621	\$12.25	03-30631	\$112.50
8"	03-30821	\$14.25	03-30831	\$146.15
10"	03-31021	\$15.75	03-31031	\$162.45
12"	03-31221	\$17.75	03-31231	\$201.20
14"	03-31421	\$20.00	03-31431	\$223.90
16"	03-31621	\$21.25	03-31631	\$230.00
18"	03-31821	\$22.70	03-31831	\$246.60
20"	03-32021	\$25.00	03-32031	\$269.30
22"	03-32221	\$28.60	03-32231	\$290.45
24"	03-32421	\$32.00	03-32431	\$322.35
30"	03-33021	\$38.50	03-33031	\$400.10
36"	03-33621	\$43.25	03-33631	\$451.10



IPC Pulex Replacement Rubber - Hard				
Size	Dozen		Gross (144)	
	Part #	Price	Part #	Price
18"	03-31822	\$22.70	03-31832	\$249.60
22"	03-32222	\$28.60	03-32232	\$294.80
36"	03-33622	\$43.25	03-33632	\$452.65

## t-bars & washers

### Aluminum T-Bar

Aluminum bar with durable nylon handle.

10"	10-3101	\$4.40
14"	10-3141	\$4.75
18"	10-3181	\$5.35
22"	10-3221	\$5.50



### Swivel T-Bar

Aluminum bar with swivel nylon handle.

10"	10-3103	\$7.40
14"	10-3143	\$8.75
18"	10-3183	\$9.20
22"	10-3223	\$9.40



### Plastic T-Bar

Plastic honeycomb T-bar for increased water retention. Pulex's most popular T-bar.

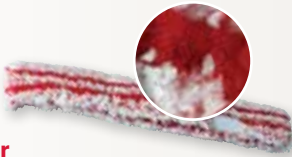
10"	10-3102	\$3.10
14"	10-3142	\$3.45
18"	10-3182	\$3.85
22"	10-3222	\$4.20



### MicroTiger

All the benefits of Microfiber (white), plus abrasive strips (red); the perfect combination.

10"	11-3103	\$8.00
14"	11-3143	\$9.60
18"	11-3183	\$11.25
22"	11-3223	\$13.50



### Abrasive Strip

Heavy duty yarn with abrasive strip for extra scrubbing power.

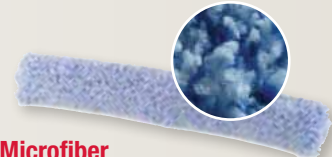
10"	11-3101	\$5.90
14"	11-3141	\$7.15
18"	11-3181	\$8.75
22"	11-3221	\$11.00



### Microfiber

Microfiber sleeves hold more liquid without dripping, attract and hold dust and dirt. A highly durable sleeve.

10"	11-3102	\$6.95
14"	11-3142	\$7.75
18"	11-3182	\$9.05
22"	11-3222	\$10.75



## accessories



Window Cleaner Bucket Complete 20-309 \$93.25		
Rugged, all purpose bucket. Holds 6 gallons.		
Complete includes all items listed below		
Blue Bucket with handle only	20-311	\$20.25
Snap on lid	21-312	\$8.15
Casters (each)	21-314	\$6.15
Drain Tray	21-313	\$18.50
Replacement Handle	21-311	\$7.70
Small Clips (2)	21-315	\$0.80
Large Clips (2)	21-316	\$1.15



### Tubex by Pulex

A multi-purpose holster features a main compartment for holding cleaning water and three additional compartments for carrying different sizes of squeegees. Left or right handed.

Tubex w/Detachable Clip	48-31	\$23.00
Male End Clip	48-32	\$5.30
Fixed Loop Tubex	48-30	\$18.25

IPC Pulex Holsters  
page 28



IPC Eagle WFPs  
WFP catalog, page 7





## squeegee handles

### Quick-Release Handle



#### Pivoting Quick Release Handle

Strong and lightweight. Quickly change channels with lever. Fits brass, stainless and Sörbo squeegees. Made with an outlet for safety line.

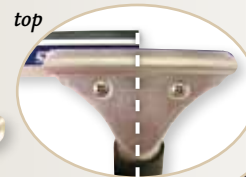
Swivel Handle 01-402 \$14.30  
Multi-Color 3pk. Squeegee 01-403 \$41.60



*A lever pivots sideways to open the jaws. When closed it's tucked away nicely.*



### Standard Handle



#### Aluminum Handle

Lightweight aluminum handle with rubber grip. Fits all Sörbo channels. Attached by tightening screws.

01-401 \$7.40

### Tricket

For cleaning both sides of louvered windows and vertical blinds.

Tricket with Sleeves 12-401 \$30.90  
Tricket with Channels 12-402 \$29.85  
Replacement Sleeves 12-403 \$15.85  
Replacement Channels 12-404 \$11.25



### Multi-Squeegee 18 in. (3 x 6 in.)

Clean several small windows at once. Consists of main channel and 3 multi channels. Works with Swivel Handle. Custom sizes available. Call to special order.

12-406 \$47.95



### Techniques DVD

Three full videos on one DVD. Sörbo teaches you a fast way to learn residential window cleaning by using the "Z" and upside down "L" method. The "Eliminator" features labor reducing techniques for large store windows.

79-404 \$10.50



## channels

Sörbo offers four unique aluminum channels. Their extruded shape renders them rigid yet lightweight; so they apply even pressure from end to end.



#### Quicksilver 40° ends with clips

40° ends prevent the tip of the alloy from touching the frame. Rubber is secured with two exterior end clips. End Clips (12) 06-406 \$4.95



#### Cobra 40° with end plugs

Plastic ends won't scratch frames; angles conform to vinyl trim around glass. End Plugs (2) 06-402 \$5.95



#### Eliminator with 40° end plugs

Removes the same amount of water as 5 window cleaners using an 18" every time you move it. Excellent for pole work and cleaning large storefronts using vertical or horizontal strokes. Lightweight.



#### Black Mamba 90° ends

Excellent for extension pole work and straight strokes. Great for fanning.

### Sörbo Aluminum Channels

Size	Quicksilver		Cobra		Black Mamba	
	Part #	Price	Part #	Price	Part #	Price
5"	02-4052	\$6.65	-	-	-	-
6"	02-4062	\$7.15	-	-	-	-
8"	02-4082	\$8.00	02-4081	\$8.00	-	-
10"	02-4102	\$8.70	02-4101	\$8.25	-	-
12"	02-4122	\$10.25	02-4121	\$8.50	-	-
14"	02-4142	\$10.75	02-4141	\$9.45	-	-
16"	02-4162	\$11.75	02-4161	\$9.95	-	-
18"	02-4182	\$12.25	02-4181	\$10.75	02-4183	\$13.30
20"	02-4202	\$14.50	02-4201	\$11.25	-	-
22"	02-4222	\$15.25	02-4221	\$11.75	02-4223	\$15.75
24"	02-4242	\$16.10	02-4241	\$13.30	02-4243	\$16.85
26"	02-4262	\$16.60	02-4261	\$14.80	-	-
30"	02-4302	\$19.75	02-4301	\$17.10	02-4303	\$20.40
36"	02-4362	\$21.20	02-4361	\$20.95	<b>Eliminator</b>	
48"	-	-	02-4481	\$26.05	02-4484	\$86.20
54"	-	-	-	-	02-4544	\$88.25
60"	-	-	-	-	02-4604	\$90.30
66"	-	-	-	-	02-4664	\$92.35
72"	-	-	-	-	02-4724	\$96.65
78"	-	-	-	-	02-4784	\$100.00





## replacement rubber

Sörbo's standard squeegee rubber is made of the highest quality rubber compound, screened and cleaned and then molded. Sörbo produces squeegee rubbers from 5" to 36" and in silicone for other sizes. All Sörbo squeegee rubbers fit standard brass, stainless and Sörbo 3 x 4 channels.



### Sörbo 50-Foot Silicone Squeegee Roll

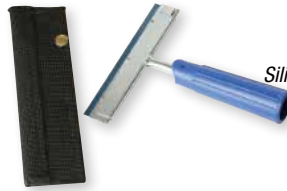
Eliminate the need to stock different sizes, just cut what you need. **Note:** this is not molded natural rubber, but extruded silicone. 50-Foot Roll.

03-450 \$80.60

### Sörbo Scraper

Adapts to uneven windows and will remove paint with the full width. Blade can be offset to an L-shape to get behind bars or tight places.

6" Scraper + Cover	35-61	\$26.55
Holster	37-61	\$16.60
Scraper + Holster	35-62	\$31.90
Blades (10)	36-65	\$16.10



Silicone: 48"

### Sörbo Natural Rubber Squeegees

Size	Dozen		Gross (144)	
	Part #	Price	Part #	Price
5"	03-4052	\$11.50	03-4053	\$127.25
6"	03-4062	\$12.00	03-4063	\$145.00
8"	03-4082	\$13.80	03-4083	\$167.05
10"	03-4102	\$18.00	03-4103	\$207.10
12"	03-4122	\$19.25	03-4123	\$229.50
14"	03-4142	\$22.00	03-4143	\$249.90
16"	03-4162	\$25.50	03-4163	\$277.45
18"	03-4182	\$26.00	03-4183	\$293.80
20"	03-4202	\$30.60	03-4203	\$346.80
22"	03-4222	\$33.25	03-4223	\$382.00
24"	03-4242	\$37.25	03-4243	\$418.20
26"	03-4262	\$38.80	03-4263	\$450.85
30"	03-4302	\$46.95	03-4303	\$540.60
36"	03-4362	\$51.00	03-4363	\$571.20
48"	03-4482	\$73.45	03-4483	\$753.30



save when you buy a gross

## t-bars & washers



### Fixed T-Bar

Aluminum tubing, durable plastic handle.

6"	10-4061	\$6.95
10"	10-4101	\$8.00
14"	10-4141	\$8.90
18"	10-4181	\$9.55
22"	10-4221	\$10.50



### Yellow Jacket

Brass snaps all the way across. Opening can be anywhere desired. Abrasive ends on 18" and 22".

6"	11-406	\$8.00
10"	11-410	\$9.75
14"	11-414	\$10.75
18"	11-418	\$12.75
22"	11-422	\$14.75



### Swivel T-Bar

Durable, pivoting handle and aluminum tubing.

6"	10-4062	\$10.75
10"	10-4102	\$11.75
14"	10-4142	\$13.00
18"	10-4182	\$13.30
22"	10-4222	\$14.25
36"	10-4362	\$17.10



### Twin Ledge Angle

Put any Sörbo handle or T-bar on either side, wash squeegee without swapping out tools. Head pivots for best angles. Ideal on extension poles.

63-401 \$41.60



## accessories



### Leif Cart

Easily roll window cleaner buckets on rough surfaces; extension handle eliminates the need to bend over. Patented pivoting rack carries all large buckets and prevents water spills. Price includes cart and handle (bucket not included).

21-412 \$122.15



### Quadropod™

Truly unique tripod rolling bucket support. Pull along, or pick up and legs automatically pull together. Set down and they spread apart again.

21-411 \$128.55



Sörbo Holsters  
page 32



Sörbo Scraper  
page 34



Sörbo Glide  
page 37



Sörbo Poles  
page 47



green prices mean savings for you



### 3-Star Rubber

J. Racenstein's house-brand, 3-Star, delivers great results at an affordable price. Made from high quality, real rubber, it has a perfect square edge that cleans glass like the best of them.

Size	Part #	Dozen		Part #	Gross (144)	
		Price	Save on 4+		Price	Save on 3+
8"	03-0082	\$14.75	<b>\$2.95</b>	03-0083	\$164.50	<b>\$24.68</b>
10"	03-0102	\$15.25	<b>\$4.88</b>	03-0103	\$170.25	<b>\$25.54</b>
12"	03-0122	\$17.25	<b>\$5.52</b>	03-0123	\$190.25	<b>\$28.54</b>
14"	03-0142	\$19.75	<b>\$6.32</b>	03-0143	\$216.25	<b>\$32.44</b>
16"	03-0162	\$20.25	<b>\$6.48</b>	03-0163	\$225.00	<b>\$33.75</b>
18"	03-0182	\$20.75	<b>\$6.64</b>	03-0183	\$245.00	<b>\$36.75</b>
20"	03-0202	\$24.25	<b>\$7.76</b>	03-0203	\$268.00	<b>\$40.20</b>
22"	03-0222	\$25.25	<b>\$8.08</b>	03-0223	\$289.00	<b>\$43.35</b>
24"	03-0242	\$31.00	<b>\$9.92</b>	03-0243	\$343.00	<b>\$51.45</b>
30"	03-0302	\$36.00	<b>\$11.52</b>	03-0303	\$400.50	<b>\$60.07</b>
36"	03-0362	\$42.75	<b>\$13.68</b>	03-0363	\$455.95	<b>\$68.39</b>

### Stretch Your Rubber Dollar with EXO Rubber

It's official - EXO Rubber delivers a high quality clean at a very economical price. Window cleaners have been very happy with the results, especially considering the low cost. If you are looking to stretch your rubber dollars then pick up a dozen EXO Rubber and give it a try.

### EXO-Rubber

Extruded Rubber is a more economical rubber based on the fact that it's extruded as opposed to molded. A clean, straight edge delivers great results. Compatible with brass and stainless-steel channels.

Size	Part#	Dozen		Part#	Gross (144)	
		Each	Save on 4+		Price	Save on 3+
18"	03-0184	\$17.00	<b>\$6.80</b>	03-0185	\$182.75	<b>\$54.83</b>
22"	03-0224	\$20.00	<b>\$8.00</b>	03-0225	\$218.50	<b>\$65.55</b>
36"	03-0364	\$28.00	<b>\$11.20</b>	03-0365	\$305.00	<b>\$91.50</b>

12 ft. Roll 03-0001 \$10.15 **Save \$3.05 on 3+**

### Multi-Purpose Cutting Tool

- Cuts rubber to size
- Uses proprietary industrial rated steel blades
- Comes w/3 extra blades stored in the handle
- Molded ergo-grip handle that fits small and large hands
- Safety lock to assure closure when not in use

Cutting Tool	55-16	\$20.75
Blades & Anvil	55-17	\$6.25



100+ educational, informative and useful videos already up, and more being added all the time. Learn how tools work and go together. Learn time-saving techniques and much more. Visit regularly to see what's new: [www.jracenstein.com/videos](http://www.jracenstein.com/videos)



**ETTORE**  
The Professional's Edge Since 1916

### Ettore Window Cleaning Kit

- Nylon case with shoulder strap
- 8' REA-C-H pole
- Stainless Channels (10", 12", 14", 18")
- Rubber (10", 12", 14", 18") - 3 each
- Scrapmaster Scraper w/10 repl. blades
- 14" Golden Glove washer sleeve
- Stainless Quick Release squeegee handle

12-103 \$182.60



**UNGER**  
Quality Tools for Smart Cleaning

### Unger ErgoTec® Window Cleaning Kit

- 52" nylon carrying case
- 14" ErgoTec® T-Bar
- 14" Micro Strip Washer Sleeve
- 14" ErgoTec® Squeegee Handle
- "S" Channel w/ErgoTec® Soft Rubber (10", 14", 18")
- 36" ErgoTec® Soft Replacement Rubber
- Plastic Clips and Case
- ErgoTec® Scraper
- Safety Scraper
- 3 MicroWipes
- 8' OptiLoc 2-section Tele-Pole
- The Pill Glass Cleaner (10 pack)

12-203 \$173.95



**MR. LONG ARM**  
Finish. Up.

### Pro-Curve Starter Kits

- Procurve 14" window washer
- Stainless steel squeegee handle
- Procurve squeegee handle
- Channels with premium rubber (6, 12, 18 in.)
- Scraper with 10 blades
- 36 in. premium rubber replacement
- Procurve Video
- Canvas bag
- 2-section 4 - 8 ft. Procurve and Prodesign pole assemblies

12-501 \$166.50

- Procurve 14" window washer
- Stainless steel squeegee handle
- Procurve squeegee handle
- Channels with premium rubber (6, 12, 18 in.)
- Scraper with 10 blades
- 36 in. premium rubber replacement
- Procurve Video
- Canvas bag
- 3-section 4 -12 ft. Procurve and Prodesign pole assemblies

12-503 \$187.25



CLEAN GLASS BETTER,

FASTER, MORE SAFELY,

*&* PROFITABLY

with WATER-FED SYSTEMS



2009 Product Catalog

# NEW09

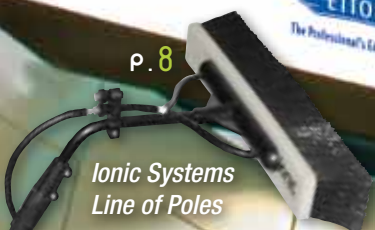
P. 4

*New & Improved  
Unger CarbonTec  
Thread Connection*



P. 8

*Ionic Systems  
Line of Poles*



## Water-Fed Poles



Water Purifiers



PHONE

800-221-3748

Unger .....	4
Ettore .....	6, 15
IPC Eagle .....	7, 12
Ionic .....	8, 14
Tucker .....	10
Parts/Accessories ....	16

P. 12

*IPC Eagle  
Hydro Carts*



WEB

SafeWindowCleaning.com



A Water-Fed system is made up of the components shown here.



### 1. Water Source

Tap water flows to the water purification system.

### 2. Water Pressure

Units are powered by city pressure, 12v battery or 110v electricity.

### 3. Water Purification

Typical tap water has impurities held in suspension; these impurities are left behind to spot the glass when the water evaporates. These impurities are referred to as Total Dissolved Solids (TDS) and the purification units use some combination of Sediment and Carbon filters along with the cleansing methods of Reverse Osmosis and De-ionization to remove these impurities. Pumps incorporated into some of the units allow water fed poles to reach great heights. Water Quality is measured in "parts per million" (ppm) of TDS and purification units are capable of delivering water that is pure IE: 0 (zero) ppm TDS. In practice low single digit ppm water will dry spot-free without the need to squeegee off the glass.

### 4. Water Feed

Small flexible hose with a valve supplies pure water to the pole and brush.

### 5. Operator

The biggest benefit of Water-Fed Pole, the worker stands on solid ground; he works the pole up and down the building by walking back and forth.

### 6. Pole

Poles are specifically designed to fit the intended work, poles are available from 6 ft. to 72 ft. and are constructed from aluminum, fiberglass or carbon fiber. Poles come in two configurations, Telescopic, where each pole section slips inside the next, or Sectional where each pole section is attached at the end to the next section.

### 7. Brush & Support Bracket

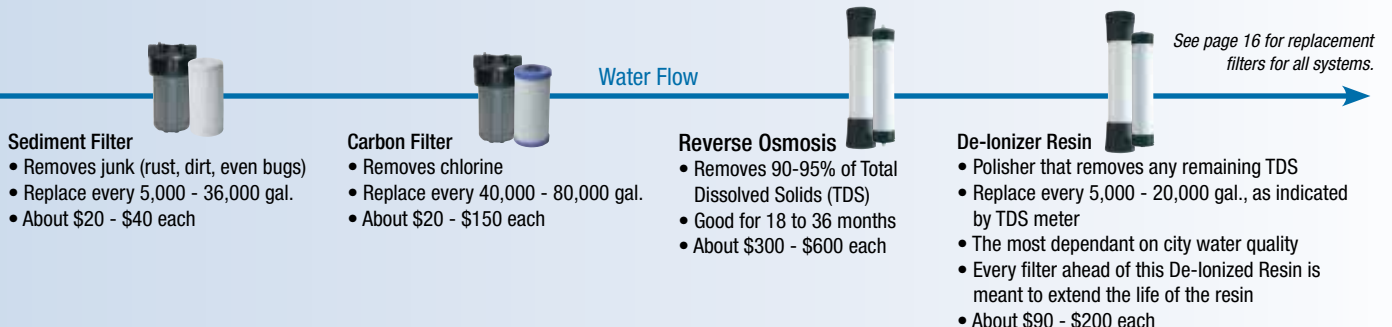
Pure Water is delivered to the Brush via Nozzles embedded in the brush (for window cleaning) or suspended above the brush (for Awnings and exterior façades). The brush is made from nylon or Boars hair bristles and agitates the dirt and grime free from the surface allowing the pure water to carry it away.

### 8. TDS Meter

The TDS Meter is used to measure the Water Quality delivered by the system. By measuring every couple of hours or so, you insure the Water Quality is correct.



**A Typical Four-Stage Water Purification System** Water Purification is very cost sensitive, the most effective purification systems deliver pure water for pennies per gallon. The most cost effective systems offer four stage water purification. This diagram illustrates the water flow through a four stage water purification unit. The service life replacement cost figures are unit dependant and can vary based upon the average ppm of the city water.



# The Water-Fed Pole Directory

We are proud to offer the broadest selection of poles in the US. Whether you need long or short, stiff or flexible, carbon fiber, fiberglass or aluminum, expensive or inexpensive, telescopic or sectional, we have the perfect pole for you. And, we have accessories, brushes and replacement parts for them all.



**8 - 25 ft.**  
1 - 2 Stories

**Ettore Telescopic - p. 6**

Fiberglass: 10, 22 ft.  
4 - 9 lbs., \$326 - \$402

**Ettore Telescopic - p. 6**

Carbon Fiber: 25 ft.  
12 lbs., \$1,000



**26 - 45 ft.**  
2 - 4 Stories

**Ettore Telescopic - p. 6**

Fiberglass: 29, 36 ft.  
12 - 15 lbs., \$474 - \$600

**Ettore Telescopic - p. 6**

Carbon Fiber: 32, 39 ft.  
13 - 18 lbs., \$1,350 - \$1,600



**45+ ft.**  
4+ Stories

**Ettore Carbon Pro+ - p. 6**  
**Sectional**

Carbon Fiber: 50 ft.  
16 lbs., \$3,264



**Unger HiFlo Advance - p. 4**

Fiberglass - 9, 17, 23 ft.  
4 - 8 lbs., \$229 - \$651



**Unger HiFlo Advance - p. 4**

Fiberglass 27 ft.  
9 lbs., \$789



**Unger HiFlo Advance - p. 4**

Carbon Fiber 27, 33 ft.  
24 lbs., \$1,259 - \$1,485

**Unger CarbonTec - p. 4**

Carbon Fiber: 30 ft.  
27 lbs., \$2,395



**Unger CarbonTec - p. 4**  
**Sectional**

Carbon Fiber: 50 ft.  
27 lbs., \$3,550

**Eagle FaceLift - p. 7**

Fiberglass: 15, 24 ft.  
4 - 6 lbs., \$635 - \$1,016



**Eagle FaceLift - p. 7**

Carbon Fiber: 24 ft.  
5.5 lbs., \$16.92

**Unger HiFlo Advance - p. 4**

Carbon Fiber 27, 33 ft.  
24 lbs., \$1,259 - \$1,485

**Unger CarbonTec - p. 4**

Carbon Fiber: 30 ft.  
27 lbs., \$2,395



**Eagle FaceLift - p. 7**

Carbon Fiber: 56 ft.  
15 lbs., \$3,457

**Ionic Multipole - p. 8**

Fiberglass - 12, 18 ft.  
4 - 6 lbs., \$150 - \$225



**Ionic Multipole - p. 8**

Carbon Fiber: 24 ft.  
9 lbs., \$440

**Ionic Glyder - p. 9**

Carbon Fiber: 24 ft.  
6.4 lbs., \$575

**Eagle FaceLift - p. 7**

Fiberglass: 29 ft.  
7 lbs., \$1,279

**Eagle FaceLift - p. 7**

Carbon Fiber: 34, 44 ft.  
7 - 11 lbs., \$2,557 - \$3,002



**Ionic Ergo-lite 2 - p. 9**

Carbon Fiber: 45, 65 ft.  
12 - 16 lbs., \$1,540 - \$2,390

**Ionic Ergo-lite 3 - p. 9**

Carbon Fiber: 45, 60, 72 ft.  
12 - 18 lbs., \$2,345 - \$3,775



**Tucker - p. 10**

Aluminum: 15, 20, 25 ft.  
5 - 8 lbs., \$202 - \$313



**Ionic Multipole - p. 8**

Carbon Fiber: 35, 45 ft.  
16 - 20 lbs., \$505 - \$540



**Ionic Universal - p. 8**

Carbon Fiber: 28, 34, 44 ft.  
13 - 17 lbs., \$660 - \$885

**Ionic Ergo-lite 2 - p. 9**

Carbon Fiber: 35, 45 ft.  
9 - 12 lbs., \$1,290 - \$1,540



**Tucker - p. 10**

Aluminum: 45 ft.  
15 lbs., \$605

**PLEASE NOTE:**

- Weights do not include gooseneck or brush.
- Some manufacturers rate their poles as "working height" which adds a few feet for the worker. Others simply present the pole's actual length. Check the catalog for each manufacturer.





Water flows inside the pole and gooseneck. No exterior tubes.

### CarbonTec Modular System

The HiFlo CarbonTec System from Unger sets new standards in Water-Fed Pole technology. Reach and clean up to 50 feet with ease, through easily connected modular pole sections with internal water feed.

- Ultra light weight modularity from 2.5 to 50 ft.
- Use only the sections you need, reduces weight
- Fast unique connectors
- Precise engineered components
- Unique "any position" water feed

Description	# Secs	Wt.	Part #	Price
CarbonTec 50 ft. Kit	10 x 5 ft.	18 lbs.	65-240	\$3,550.00
CarbonTec 30 ft. Kit	6 x 5 ft.	11.5 lbs.	65-242	\$2,395.00

*(weights include pole sections, water feed, gooseneck and brush)*

### Next Generation Modular Pole Connector - Secure, Solid and Long-lasting

CarbonTec's connector has been completely re-engineered to deliver impressive performance; here's what's new:

- Hardened anodized connector is stronger and longer lasting
- Increased threads to 2.25 turns for increased connection, stability and security
- Optimized surface texture for better grip
- New connectors compatible with all models
- Engineered and manufactured in Germany



Each kit includes this sturdy gear bag with extra compartments for poles, brushes, hoses etc.

### CarbonTec Conversion Kit

Break your 50-foot kit into two usable poles with this duplicate hardware. Kits include Gooseneck, Brush, Water Feed Hose, Water Feed Assembly, and End Cap.

CarbonTec Conversion Kit w/11 in. Brush	65-247	\$405.00
CarbonTec Conversion Kit w/16 in. Brush	65-249	\$420.00
CarbonTec Deluxe Conversion Kit With 11 in. brush	65-248	\$615.00
CarbonTec Deluxe Conversion Kit With 16 in. brush	65-250	\$625.00



Rubber End Cap screws on the bottom section.

### HiFlo Advanced Poles

The new HiFlo Advanced poles by Unger allow you to work safely up to 33 ft. high, and are extremely flexible in the process.

- Ideal for cleaning in residential homes
- Lightweight, very fast and solid
- Features inner water tube
- Fiberglass or Carbon/Fiberglass hybrid construction
- Solid clamps, easy & secure to lock, one-handed operation
- Pole diameters range from 0.75 to 2.1 in.

Description	# Secs	Wt.	Part #	Price
<b>Fiberglass HiFlo Advanced Poles</b>				
HiFlo Advance 9 ft. Fiberglass	2	4 lbs.	65-261	\$229.00
HiFlo Advance 17 ft. Fiberglass	4	7 lbs.	65-263	\$428.00
HiFlo Advance 23 ft. Fiberglass	5	8 lbs.	65-264	\$651.00
HiFlo Advance 27 ft. Fiberglass	6	9 lbs.	65-270	\$789.00

### Carbon+ Fiberglass Hybrid HiFlo Advanced Poles

HiFlo Hybrid 27 ft.	6	9 lbs.	65-271	\$1,259.70
HiFlo Hybrid 33 ft.	8	12 lbs.	65-272	\$1,485.00

### HiFlo Kit

Turn your extension pole into a water-fed pole! Great for cleaning walls, boats, minivans, etc. Comes complete with 30' hose, brush, scrub tabs and zinc swivel adapter for hose. Attaches easily to all Unger extension poles (not included, see below).

HiFlo Kit, 30 ft.	65-230	\$124.45
HiFlo Kit Dispenser	66-201	\$71.00
HiFlo Replacement Brush	66-230	\$21.50

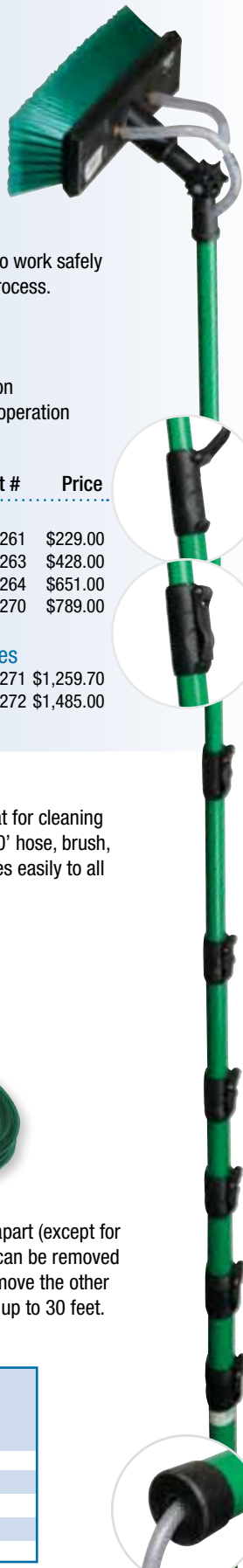


### Tele-Plus (Add-An-Arm) Pole

This unique extension pole system actually comes apart (except for the top two sections). Each of the six-foot sections can be removed from the rest. So, if you only need an 18 ft. pole, remove the other two sections and work with a lighter pole or extend up to 30 feet. Buy the complete set or add parts as you need.

#### Unger Tele-Plus (Add-An-Arm)

Ext. Length	Closed Length	No. of Sections	Part Number	Price
Sec's 1 & 2	12 ft.	2	60-211	\$43.75
Section 3	6 ft.	1	60-212	\$28.50
Section 4	6 ft.	1	60-213	\$34.95
Section 5	6 ft.	1	60-214	\$40.55
All 5 Sections (30 ft.)		5	60-216	\$115.05







Accessories

HiFlo CarbonTec Goosenecks

Short	66-213	\$198.00
Long	66-212	\$198.00

Goosenecks with Nylon Brushes

Short GN+11" Brush	66-206	\$252.00
Long GN+11" Brush	66-207	\$252.00
Short GN+16" Brush	66-208	\$276.00
Long GN+16" Brush	66-209	\$276.00

HiFlo CarbonTec Nylon Brushes

11 in. Brush	66-210	\$54.60
16 in. Brush	66-211	\$78.00

HiFlo Nylon Brushes

11 in. Rectangular	66-228	\$75.00
11 in. Radius	66-227	\$86.00
16 in. Oval	66-226	\$92.00

Unger TDS Meter

66-220	\$54.85
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HiFlo Tablets

66-202	\$11.50
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HiFlo Soap Dispenser

66-200	\$43.65
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CarbonTec Hose Kits

30 ft.	67-206	\$47.25
15 ft.	67-207	\$42.00

HiFlo Angle Adapter

67-230	\$9.50
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Spare Parts

CarbonTec Replacement Poles

5 ft.	67-201	\$322.00
3 ft.	67-202	\$238.00

HiFlo CarbonTec Water-Feed Assembly

67-205	\$72.00
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HiFlo CarbonTec Hose Kits

30 ft.	67-206	\$54.00
15 ft.	67-207	\$48.00

CarbonTec Quick Connector

67-200	\$24.00
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HiFlo / CarbonTec Source Connector

67-208	\$24.00
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HiFlo / CarbonTec End Cap

67-211	\$48.00
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CarbonTec Water Hose Clamps

67-216	\$2.05
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CarbonTec Pole O-Rings

67-217	\$1.35
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CarbonTec Brush Jet

67-218	\$19.00
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HiFlo CarbonTec Gear Bag

66-214	\$240.00
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HiFlo DI Cart

- "Plug-and-Play" functionality—just attach water hose and pole system, turn on, and start cleaning.
- Battery operated TDS meter monitors the water quality and lets the user know when to change the resin.
- Robust, wheeled cart makes moving and using the system strain-free.
- Use for spot-free results on windows, awnings, exterior building cleaning and any heavy-duty cleaning job.

69-201	\$645.00
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Replacement Cartridges

- Easy to install; just unscrew from unit, twist open the top and slide in a new cartridge
- Treat approximately 600 gallons of water (depending on TDS)

2 pk.	70-205	\$235.00
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Resin Refills

- Save money by refilling cartridges

2 pk.	70-206	\$175.00
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The Professional's Edge Since 1936

### Carbon Pro+ Sectional System with Kevlar

This new sectional pole is made of light weight carbon-fiber reinforced with Kevlar, this results in a light and very rigid pole. Pole segments are offered in three and five foot segments allowing for heights to 65 feet.

- 1-1/2 diameter and smooth for easy handling
- Precision connectors are strong and fast
- Water flows through internal tubing
- Pole sections have internal check valve that eliminates the need to drain the system when removing or adding sections

Description	Wt.	# Secs	Part #	Price
CarbonPro+ System 50 ft.	20 lbs.	10 x 5 ft.	100-150	\$3,264.00

Each 5-ft. section weighs 16 oz. Kit includes 10 5-ft. sections, gooseneck, brush, 15 ft. hose, radial water supply, end cap and carrying case with wheels.

Unique Scrub 'n Rinse attachment with abrasive pad, works like magic on stubborn debris.



Radial Water Supply fits between any two sections, or at the bottom.



Reinforced aluminum joints employ a double O-ring design that creates a water-tight seal.



### Carbon Pro+ Replacement Parts

Carbon Pro+ 3 ft. Section	112-181	\$254.00
Carbon Pro+ 5 ft. Section	112-180	\$293.80
Protective End Cap	112-182	\$25.50
Radial Water Supply	112-183	\$75.50
15 ft. Hose Assembly	112-184	\$32.65
Head Assembly with Brush	112-185	\$192.80
Pad Mount	112-187	\$235.65
Replacement Pads (10)	112-188	\$14.30
8 in. Gooseneck	112-113	\$140.80
1/4 in. Female Coupling	112-147	\$3.40

### Brushes (for both poles)

12 in. Double Trim Nylon Brush	110-101	\$80.00
12 in. Double Trim Boar Hair Brush	110-102	\$100.00
18 in. Double Trim Nylon Brush	110-103	\$125.00
18 in. Double Trim Boar Hair Brush	110-104	\$129.00



Boar Hair

Nylon

### Carbon-Fiber and Fiberglass Telescopic Poles

The Aquaclean telescopic poles are strong and lightweight. Carbon-Fiber Pole is constructed of a Spun-fiber that is lighter and stiffer than conventional poles:

#### Carbon-Fiber

- 12% lighter and 40% stiffer than fiberglass
- Lightweight means less fatigue
- Carbon won't bend or dent
- Bottom section is yellow fiberglass for safety

#### Fiberglass

- Durable fiberglass construction, won't bend or dent

#### Both

- Dual hose option for extra rinsing
- Finger tip clamping system, no tools required
- Includes head assembly and 12" nylon brush
- Limited 90-day parts and labor warranty
- Includes head assembly and 12" nylon brush

Description	# Secs	Wt.	JRC #	Price
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#### Carbon Fiber Dual Hose

25 ft. Carbon Fiber	4	12 lbs.	100-101	\$1,000.00
32 ft. Carbon Fiber	5	13 lbs.	100-102	\$1,350.00
48 ft. Carbon Fiber	5	23 lbs.	100-104	\$2,040.00

#### Fiberglass Single Hose

10 ft. Fiberglass	3	4 lbs.	105-101	\$326.00
22 ft. Fiberglass	3	9 lbs.	105-102	\$402.00
29 ft. Fiberglass	4	12 lbs.	105-103	\$474.00
36 ft. Fiberglass	5	15 lbs.	105-104	\$600.00

#### Fiberglass Dual Hose

22 ft. Fiberglass	3	10 lbs.	105-110	\$480.00
27 ft. Fiberglass	5	12 lbs.	105-111	\$629.00
29 ft. Fiberglass	4	13 lbs.	105-112	\$558.00
36 ft. Fiberglass	5	15 lbs.	105-113	\$667.00

three-position clamp :  
1) open 2) closed 3) locked







**FaceLift Poles**

These fiberglass and carbon-fiber poles offer flexibility and value for the money without compromising quality. A patented locking system provides clamps that can be adjusted quickly, while the easy grip, removable tube sections and lightweight brush simplify operation.

*Clamp Features:*

- Fast Action
- Fingertip Adjustment
- Patented Locking System

*Pole Features:*

- Easy Grip
- Removable Tube Sections
- Available in Carbon or Fiberglass
- Lightweight



Description	# Secs	Wt.	Part #	Price
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**FaceLift Carbon Fiber Poles**

24 ft. Carbon Fiber	4 x 6 ft.	5.5 lbs.	155-124	\$1,692.20
<i>Includes 11 in. nylon brush, plastic gooseneck</i>				
34 ft. Carbon Fiber	6 x 6 ft.	7 lbs.	155-134	\$2,557.65
<i>Includes 14 in. nylon brush, aluminum gooseneck</i>				
44 ft. Carbon Fiber	8 x 6 ft.	11 lbs.	155-144	\$3,002.90
<i>Includes 14 in. nylon brush, aluminum gooseneck</i>				
56 ft. Carbon Fiber	8 secs.	15.5 lbs.	155-156	\$3,457.50
<i>Includes 14 in. nylon brush, aluminum gooseneck</i>				

**FaceLift Fiberglass Poles**

*Includes 11" nylon brush, plastic gooseneck*

15 ft. Fiberglass	3 x 6 ft.	4 lbs.	156-119	\$635.75
24 ft. Fiberglass	4 x 6 ft.	6.5 lbs.	156-124	\$1,016.45
29 ft. Fiberglass	5 x 6 ft.	7 lbs.	156-129	\$1,279.35
11 in. Brush w/hose & fitting			158-114	\$204.00
14 in. Brush w/hose & fitting			158-111	\$11.95

*Pole lengths are working height.*

**FaceLift Replacement Parts**

Brush Jet	157-103	\$11.80
Connector, for Pole	157-105	\$6.55
Collar for Pole	157-106	\$48.75
Clamp for Pole	157-107	\$32.90
Clamp Nut	157-108	\$6.50
Clamp Lever	157-109	\$11.55
End Cap	157-110	\$7.50
Alloy Gooseneck	157-115	\$85.70

*Replacement pole sections for all poles, call for details.*

**Twist Lock Telescopic Aluminum Poles**

Inexpensive yet durable telescopic aluminum poles offer the benefits of water-fed pole window cleaning or high pressure cleaning. Offering the most accessories available for telescopic poles in the industry.

- Quarter turn twist lock tightens or loosens the fitting allowing for infinite pole adjustments.
- Easy to adjust – no tools needed
- All parts of the poles are easily replaceable in the field
- Great for use up to 36 ft.
- Can be converted to pressure washer, call for details

Description	# Secs	Wt.	Part #	Price
12 ft. Aluminum Twist Lock	3 x 4 ft.	5.4 lbs.	130-101	\$440.00
18 ft. Aluminum Twist Lock	3 x 6 ft.	6.9 lbs.	130-102	\$475.00
24 ft. Aluminum Twist Lock	4 x 6 ft.	8.8 lbs.	130-103	\$555.00
30 ft. Aluminum Twist Lock	5 x 6 ft.	11 lbs.	130-104	\$640.00
36 ft. Aluminum Twist Lock	6 x 6 ft.	13 lbs.	130-105	\$735.00
48 ft. Aluminum Twist Lock	6 x 8 ft.	16 lbs.	130-106	\$810.00
<i>Prices are for poles only.</i>				
Stainless Steel Snap Adaptor			134-104	\$35.70

*Pole lengths are actual height.*



**Eagle Goosenecks and Brushes**

12 in. Gooseneck	134-105	\$156.10
24 in. Gooseneck	134-106	\$183.60
36 in. Gooseneck	134-107	\$209.10
12 in. Nylon Brush	133-103	\$64.30
16 in. Nylon Brush	133-104	\$90.80
12 in. Boar Hair Brush	133-105	\$77.55
16 in. Boar Hair Brush	133-106	\$97.95

**Eagle Replacement Parts**

100 ft. Host for Second Pole	134-127	\$197.90
40 ft. Water Supply Hose w/Fittings	134-128	\$81.60
50 ft. Water Supply Hose w/Fittings	134-129	\$91.80
65 ft. Water Supply Hose w/Fittings	134-130	\$112.20
5/16 in. Push Connector	134-101	\$15.30
Chemical Injector Bottle	134-111	\$92.85
Collet Adaptor	134-103	\$30.60
Nozzles	134-131	\$7.15
5/16 in. Ball Valve	134-122	\$22.20
Pole Adaptor w/Broom Thread	134-121	\$36.75
Pole Tip Flow Through	134-120	\$3.10
Plastic Ball Valve	134-123	\$46.95





# NEW09

### Multiple Fiberglass

The Ionic Multipole™ offers one of the window cleaners favorite configurations due to the adjustable angle head. The Multipole™ offers adjustability for easy access when reaching over canopies and landscaping.

- Adjustable multi-position brush head
- 12" Double Trim brush with Dupont Nylon 66 black bristles
- Fiberglass extension sections in 12 and 18 ft. poles
- Carbon Fiber extension sections in 24, 35 and 45 ft. poles
- Handle section is Fiberglass to protect against electrocution
- Durable lightweight hose

Description	# Secs	Wt.	JRC #	Price
12 ft. Fiberglass	3 x 4 ft.	4 lbs.	165-112	\$150.00
18 ft. Fiberglass	3 x 6 ft.	6 lbs.	165-118	\$225.00

### Multiple Carbon Fiber

The Carbon Fiber version of the Multipole is great for working at awkward angles as it maintains its rigidity for ease of use and pressure on the glass.

- Rigid sections, glass fiber safety base section
- Adjustable angle brush head
- Durable light weight hose
- Double-trim monofilament brush in black

Description	# Secs	Wt.	JRC #	Price
24 ft. Carbon Fiber	4 x 6 ft.	9 lbs.	165-224	\$440.00
35 ft. Carbon Fiber	5 x 7 ft.	16 lbs.	165-235	\$505.00
45 ft. Carbon Fiber	5 x 8 ft.	20 lbs.	165-245	\$540.00

### Universal Carbon Fiber

The Universal Carbon Fiber pole represents fantastic value for money and has been in the market place for 10 years and is a tried and tested pole. It is great pole at a budget price.

- Heavy Duty fixed angle brush head
- 18" Double Trim brush with Dupont Nylon 66 black bristles
- Water through or over the brush offers ability to clean windows or awnings/siding
- Heavy duty plastic backing plate
- Handle section is fiberglass to protect against electrocution
- Carbon fiber extension sections offer improved rigidity and reduces strain on the operator (vs. fiberglass).

Description	# Secs	Wt.	JRC #	Price
28 ft. Carbon Fiber	5 x 6 ft	13 lbs.	166-128	\$660.00
34 ft. Carbon Fiber	6 x 6 ft.	17 lbs.	166-134	\$700.00
44 ft. Carbon Fiber Composite	1x6 ft., 4x8 ft.	13 lbs.	166-144	\$885.00

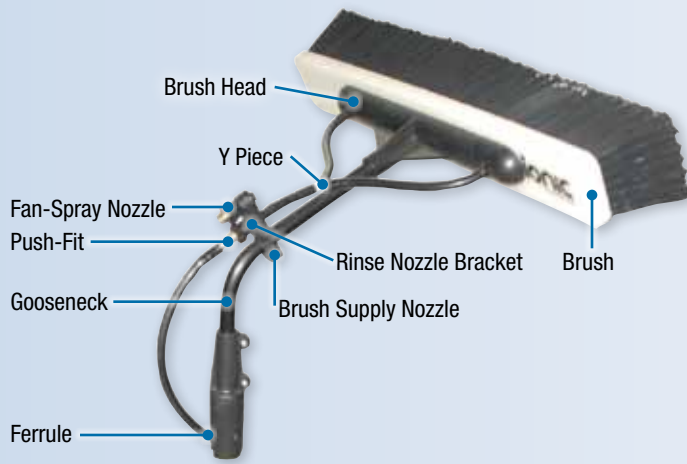
### Universal Replacement Parts

Telescopic Locking Part	169-125	\$16.75
Telescopic Locking Part	169-126	\$17.25
Telescopic Locking Part	169-127	\$31.00
Telescopic Locking Part	169-128	\$32.00
Telescopic Locking Part	169-129	\$35.50
Guide 23 x 15mm 2-part	169-130	\$2.25
Guide 30 x 15mm 2-part	169-131	\$2.25
Guides 37 x 15mm 2-part	169-132	\$2.25
Guide 44 x 15mm 2-part	169-133	\$2.25
Guide 51 x 15mm 2-part	169-134	\$2.25

*Note: The extended height of all Ionic poles are Working Height, measured from the hip of the operator.*  
 Tip: Consider a pole one size longer than you think you really need. Do not extend the last extension until you really need it (it is the thinnest section). This will make the pole more rigid at the tip and easier to use.

### Universal & Ergo-lite Accessories & Parts

12 in. Double Trim Brush	168-101	\$41.75
18 in. Double Trim Brush	168-102	\$56.25
9 in. Gooseneck + 12 in. Head Assembly	168-110	\$82.75
9 in. Gooseneck + 18' in. Head Assembly	168-111	\$86.25
12 in. Head (no brush)	168-114	\$31.00
18 in. Head (no brush)	168-115	\$34.50
New 12 in. Brush Head Complete	168-117	\$182.00
New 18 in. Brush Head Complete	168-118	\$201.00
12 in. Black Double Trim Brush	168-103	\$32.50
Brush Screw	168-102	\$5.75
Spray Nozzle	169-103	\$12.50
Rinse Nozzle Bracket	169-104	\$10.50





# NEW09

## The Ionic Ergo-lite

The Ionic Ergo-lite™ poles offer the lightest, thinnest and most rigid poles available. The E2 carbon fiber poles are made from straight tubular sections offering exceptional ease of use and stability. The E3 carbon fiber poles are made from tapered sections that offer superior control, operator safety and ease of use. The E3 is approximately 25% stiffer than the E2 poles.

- Heavy Duty fixed angle brush head
- 35 and 45 ft. poles include a 18" Double Trim brush
- 60, 65 and 72 ft. poles include a 12" Double Trim brush
- Brushes are Dupont Nylon 66 black bristles
- Water through or over the brush offers ability to clean windows or awnings/siding
- Heavy duty plastic backing plate
- Handle Section is Fiberglass to protect against electrocution
- Carbon Fiber extension sections offer improved rigidity and reduces strain on the operator (vs. Fiberglass).

## Ergo-lite 2

Description	# Secs	Wt.	JRC #	Price
35 ft. Ergo-lite 2	6 x 6 ft.	9 lbs.	167-235	\$1,290.00
45 ft. Ergo-lite 2	8 x 6 ft.	12 lbs.	167-245	\$1,540.00
65 ft. Ergo-lite 2	9 x 6 ft.	16 lbs.	167-265	\$2,390.00

The E2 - Ergo-lite™ 2 Compact 65 ft. pole offers a significant break-through in reaching great heights. This pole is comprised of 9 Sections with the handle starting at 6'2" long. The overall length of the pole when closed is a Compact 9 ft.. The E2 - Compact 65 pole is easy to stow in many vehicles and most important very easy to raise and lower. (The typical poles this length has 8 ft. sections). This ease of use will save you time and make you more money.

## Ergo-lite 3

Description	# Secs	Wt.	JRC #	Price
45 ft. Ergo-lite 3	8 x 6 ft.	12 lbs.	167-345	\$2,345.00
60 ft. Ergo-lite 3	8 x 8 ft.	16 lbs.	167-360	\$3,135.00
72 ft. Ergo-lite 3	9 x 8 ft.	18 lbs.	167-360	\$3,775.00

The E3 - Ergo-lite™ 3 72 ft. pole is the new leader in telescoping poles and Carbon Fiber technology. You will be able to reach higher places with the solid reputation of the Ionic E3 tapered pole sections. The E3 is 25% more rigid than the standard E2.

## SideWinder for Universal and Ergo-lite Poles

A special gooseneck assembly that allows the brush head to pivot relative to the pole. This enables the brush head to maintain contact with the glass even at awkward angles, and can even be used to swing the brush-head to a vertical position (useful for getting in between railings etc). Simply twist the pole from side to side and watch the head rotate.

12 in. with 12 in. Brush	168-121	\$230.00
12 in. with 18 in. Brush	168-122	\$245.00
18 in. with 12 in. Brush	168-123	\$235.00
18 in. with 18 in. Brush	168-124	\$250.00
24 in. with 12 in. Brush	168-125	\$240.00
24 in. with 18 in. Brush	168-126	\$255.00



## Ergo-lite Glyder Carbon Fiber

*One of the Lightest Poles in the World*

The Glyder offers an extremely light but tough water-fed pole in a compact size. Weighing only 6.4 lbs. the Glyder is five sections each five feet long, offering stiff and durable carbon fiber telescopic sections. If you use a 24 ft. pole in everyday use, the Glyder should be in your vehicle.

## Glyder

Description	# Secs	Wt.	JRC #	Price
24 ft. Glyder Carbon Fiber	5 x 5 ft.	6.4 lbs.	165-324	\$575.00

## Universal & Ergo-lite Replacement Parts

Female Quick Release (5mm Cartridge)	169-113	\$4.75
Male Quick Release (5mm Stem fitting)	169-114	\$5.75
Left Hand Thread Clamp Nut	169-119	\$4.50
Lever Bolt (L/H Thread)	169-120	\$2.25
M4 Nylock Nut	169-123	\$0.20
M4 x 1/2 in. Button Screw	169-124	\$0.50

## Ergo-lite Replacement Parts

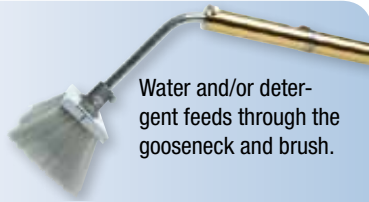
# 1 Clamp	169-136	\$8.25
# 2 Clamp	169-137	\$11.75
# 3 Clamp	169-138	\$11.75
# 4 Clamp	169-139	\$12.00
# 5 Clamp	169-140	\$12.00
# 6 Clamp	169-141	\$12.00
# 7 Clamp	169-142	\$12.00

## Replacement Parts for All Poles

Clamp Lever	169-106	\$4.75
Small Butt Ring	169-109	\$5.00
Medium Butt Ring (End Cap 51mm)	169-110	\$5.75
Medium Butt Ring	169-111	\$5.75
Large Butt Ring (Yellow)	169-112	\$6.50
Brass Garden Hose Adaptor	169-144	\$8.75
Angle Crank Adaptor	169-107	\$17.50



The Tucker® Pole System is designed to connect to a standard garden hose and consists of lightweight aircraft-type aluminum handles, Tucker Pole Tool and a choice of single or dual hose, gooseneck, nylon bristled brush and optional detergent dispenser with detergent tablets. The pole system is regularly used up to 45 feet as a one person operation, with 12 foot models up to 83 feet requiring 2-3 people. The system can be configured in various ways allowing a variety of water and/or detergent combinations for cleaning and rinsing. Add deionized water to the system to assure a spotless job.

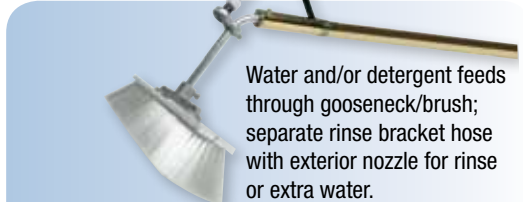


### Single-Hose Methods:

“ASH” Method - Connect to garden hose or purified water source for normal washing and rinsing with the same water source

“B” Method - Same as the “ASH” setup, but a detergent dispenser and detergent tablets are included when detergent is desired.

### To Pole, Single Hose



### Dual-Hose Methods:

“ADH” Method, Dual Hose, No Dispenser - Connect to garden hose for normal washing, rinse with 2nd hose.

“C” Method - Run detergent through the gooseneck using the Dispenser; turn on for soap cleaning, off for regular water scrubbing, and water from the upper nozzle for rinsing.

### To Pole, Dual Hose



Eight inch gooseneck and 12DT window brush are standard with ASH, B, ADH and C poles.

Ht.	Sec.	Wt.	“ASH” - Single Hose	“B” - Single Hose	“ADH” - Dual Hose	“C” - Dual Hose	“X” System
15 ft.	2	5	65-422 \$202.00	65-451 \$277.45	65-410 \$215.25	65-460 \$272.35	65-441 \$288.70
20 ft.	3	6	65-423 \$256.05	65-452 \$337.65	65-411 \$269.30	65-461 \$331.50	65-444 \$348.85
25 ft.	4	8	65-424 \$313.15	65-453 \$391.70	65-412 \$326.40	65-463 \$385.60	65-446 \$402.90
30 ft.	5	9	65-425 \$375.40	65-454 \$444.75	65-413 \$388.65	65-464 \$439.65	65-447 \$455.95
35 ft.	6	11	65-426 \$442.70	65-455 \$498.80	65-414 \$454.95	65-465 \$492.70	65-448 \$510.00
40 ft.	7	13	65-427 \$512.05	65-456 \$551.85	65-415 \$525.30	65-466 \$545.70	65-449 \$536.05
45 ft.	8	15	65-428 \$566.10	65-457 \$605.90	65-416 \$579.40	65-467 \$599.80	65-450 \$617.10

Pole Lengths: 15 to 45 ft. lengths are made up of six ft. length telescoping sections. Forty-eight ft. and above have one six ft. section, the remainder are 12 ft. Sizes listed are working lengths.

*Tucker Mini-Poles are Ideal for low-level jobs and introductory WFP operations.*

### 6 ft. Starter Pole

Includes one 6 ft. section, 12 in. double trim brush, 8 in. gooseneck, and 10 ft. of single hose  
65-477 \$173.40

### 3 x 24 in. Mini Pole

Includes three 2 ft. sections, 12 in. double trim brush, 8 in. gooseneck, 15 ft. of dual hose. Reaches up to 8 ft. 3 lbs.  
65-478 \$234.60

### 9 ft. Junior Pole

Includes two 3 ft. sections, 12 in. double trim brush, 8 in. gooseneck, 6.5 ft. of dual hose, one pound detergent, C Dispenser and Valve on Pole Kit. Reaches up to 9 ft. 3 lbs.  
65-480 \$264.20

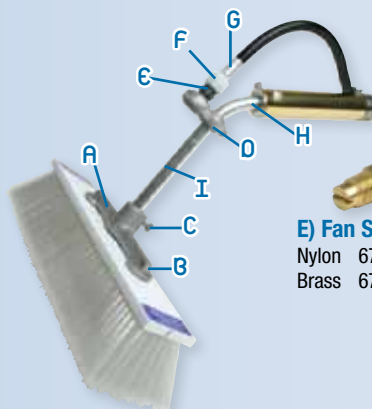
### 12 ft. Junior Pole

Includes three 3 ft. sections, 12 in. double trim brush, 8 in. gooseneck, 10 ft. of dual hose, one pound detergent, C Dispenser and Valve on Pole Kit. Reaches up to 12 ft. 4 lbs.  
65-481 \$287.65





brush head replacement parts



**A) Brush Heads**  
12 in. 66-446 \$15.30  
18 in. 66-447 \$17.60

**Brass Nipple**  
Inside Brush Head  
67-460 \$1.55

**B) Brush Screw**  
(Not Included w/Head)  
67-493 \$1.90

**C) Square Head Set Screw**  
67-494 \$1.00

**D) C Method Rinse Bracket**  
67-401 \$4.35

**E) Fan Spray Nozzle**  
Nylon 67-423 \$18.65  
Brass 67-462 \$20.40

**F) 501 Hose Insert & Female Swivel**  
Nylon 67-455 \$2.45

**G) Hose Ferrule**  
67-425 \$0.85

**H) Gooseneck Ferrule**  
67-424 \$3.35

**I) Gooseneck - Single Hose**  
8 in. for normal use, up to 36 in. to extend past deep ledges.  
8 in. 66-460 \$3.60  
12 in. 66-461 \$3.85  
24 in. 66-467 \$7.65  
36 in. 66-468 \$11.25  
\*Dual Hose - call for info. » 36 in.\* 66-479 \$20.40

Brushes

- 1) Full-Trim Brush - All bristles are the same length for normal cleaning.
  - 2) Foam Center Brush - polyurethane foam center designed especially for washing large windows with no horizontal dividers.
  - 3) Double-Trim Brush - Short inside bristles scrub the window, long outside bristles are flared to get in corners and clean trim around the glass.
- Additional brushes for specialty cleaning are available.



see page 38 for boar hair brushes

Brush Styles	9 in.	12 in.	18 in.
Full Trim w/head	66-441	\$66.30	66-443 \$119.35
Full Trim Brush	66-442	\$53.05	66-444 \$104.05
Full Trim Complete	66-440	\$68.35	
Foam Center Brush	66-431	\$53.05	66-433 \$73.45
Double Trim w/head	66-422	\$73.45	66-423 \$64.30 66-425 \$118.35
Double Trim Brush	66-421	\$54.85	66-424 \$52.05 66-426 \$103.05
Rough Surface Brush			66-439 Call

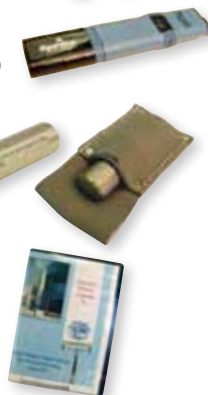
Detergent Tablets

Made of wetting agents, water softeners and protein removers. Compressed tablets take approximately four hours to dissolve.  
1 lb. Jar 66-480 \$9.70 *Save \$9.31 on 12+*  
6 lb. Jar 66-485 \$35.70



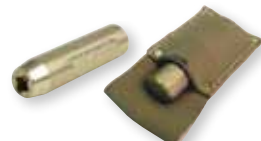
TDS Handheld Meter

This meter will test raw and purified water to determine the correct TDS reading.  
70-407 \$44.00



Tightening Tool

Tool 66-490 \$15.30  
Pouch 66-470 \$6.15



Ladderless Window Cleaning DVD

66-491 \$11.00



pole replacement parts

Pole Sections

Tube Size #1 (top)	67-471	\$53.05
Tube Size #2	67-473	\$55.10
Tube Size #3	67-476	\$58.15
Tube Size #4	67-479	\$61.20
Tube Size #5	67-482	\$65.30
Tube Size #6	67-484	\$71.40
Tube Size #7	67-486	\$76.50
Tube Size #8	67-488	\$91.80

These poles are 6 feet, call for other lengths.

Handle Clamps

Sizes #1 - #8  
67-431 to 67-438 \$6.65 each



spare parts

Valve (all models)  
67-503 \$21.45

1/8" Hose Insert Male  
67-452 \$2.45

1/4" Hose Insert Male  
67-451 \$2.45

Hose Insert Female  
67-454 \$2.80

Outlet Ring, Inlet, Lid  
67-465 \$13.55

Outlet Fitting (D Disp.)  
67-426 \$2.45

Wing Nut  
67-464 \$0.85

C-Method Dispenser  
67-422 \$100.00

DI Tank Head Assembly  
67-702

T - B Dispenser Outlet  
67-496 \$12.75

"T" - B&C Inlet  
67-497 \$8.20

Hose Adapter  
67-450 \$9.20

Replacement Head, Single Outlet  
67-504 \$6.40

Inlet Valve Assembly  
67-501 \$61.20

Bypass Hose (B Disp.)  
67-439 \$8.70

Brass Stud  
67-495 \$0.95

Small Brush Screws  
67-492 \$3.00

Single Hose, Per Ft. (1.05/ft+7.39)  
67-441 \$1.10

Dual Hose, Per Ft. (1.21/ft+14.56)  
67-442 \$1.30

Fittings for Single Hose (1 set)  
67-443 \$8.70

Fittings for Dual Hose (1 set)  
67-444 \$17.35

Dema Valves  
67-500 \$89.80  
Complete 67-505 \$124.45

Nozzle Jet Rinse  
67-461 \$2.15

## An Extremely Portable Water Maker, with Plenty of Muscle.

Finally, an RO/DI Dolly that will grow with your business. Start with the water-powered unit, then add a pump (12v. or 110v.) if you need more pressure later.

- 4-Stage Pure Water Filtration
- Low-cost, pure water cleaning
- Start with the basic model and add a battery or electric pump module as your business grows
- Tankless system
- Includes 100 feet of industrial hose
- Compact and portable; easily moved in and out of vehicles, up and down steps, and across any terrain



Hydro Cart Basic (No Pump)



Hydro Cart (12 volt)



Hydro Cart (110 volt)

<b>WEIGHT</b>	55 lbs.	91 lbs.	86 lbs.
<b>POWER</b>	Uses tap water pressure.	12 volt DC, 33Ah gel battery (12 hr. run time), 1 battery included	110 volt
<b># BUILDING STORIES</b>	2 - 3	5	5
<b>WATER OUTPUT</b>	1 pole to 2 stories, or 3 stories if city pressure is at least 60psi	1 pole to 60 feet	2 poles to 60 feet
<b>OUTPUT (GALS/MIN)</b>	0.4 gpm @ 45°F, 0.6 gpm @ 65°F	0.6 gpm @ 45°F, 0.7 gpm @ 65°F	0.5 gpm @ temps down to 33°F - 1
<b>FILTERS</b>	Carbon Filter, Sediment Filter, RO Filter, DI Filter	Carbon Filter, Sediment Filter, RO Filter, DI Filter	Carbon Filter, Sediment Filter, RO Filter, DI Filter
<b>PRICE - PART NUMBER</b>	142-103      \$2,573.50	142-105      \$3,825.00	142-104      \$4,166.70

### Hydro Cart Replacement Parts

4 in. Snap Ring for Membrane	134-124	\$7.75
Safety Cap for RO/DI Units	134-132	\$10.95
Retainer Plug, for Safety Cap	134-133	\$3.95
Filter Kit for Hydro Cart	145-110	\$85.20

Hydro Cart Filter Kit includes sediment filter, carbon block filter and DI cartridge. These are replaced together and will last for thousands of gallons, depending on local water quality. Kit does not include the RO membrane (see page 17).



### Hydro Cart Upgrade Kits

Add a 12v or a 110v pump and power supply to increase water pressure and volume. These two kits come complete with mounting brackets and all hardware and bolt on in minutes. 12v Kit includes battery and charger.

Battery Pump Kit Complete	142-107	\$953.70
Electric Pump Kit Complete	142-106	\$1,593.25

Replacement Battery	142-108	\$106.10
12v Battery Charger	142-109	\$190.75
Battery Switch Box Assembly	134-144	\$394.75
Motor Pump for RO/DI Battery	134-145	322.10





## Water Makers that Deliver the Goods; and the Water

Make water on demand, or simply fill tanks. These five-stage pure water quality Reverse Osmosis coupled with Deionizing Filtration systems make high quality zero TDS water economically with the choice of battery or electric power. Ergonomic two-wheel cart allows for easy movement around the work site on all terrains. Dollies can be laid down flat during transportation.

**\***  
 Lease a system  
 for about  
**\$250**  
 Per Month

*Includes a water  
 maker and pole.*



**Eagle Power RO/DI Electric**

**Eagle Power RO/DI Battery**

<b>SIZE - WEIGHT</b>	25 in. (L) x 29 in. (W) x 46 in. (H) - 157 lbs.	25 in. (L) x 29 in. (W) x 46 in (H) - 124 lbs.
<b>POWER</b>	115 volt AC, 60 Hz, 10 amp with Ground Fault Circuit interrupter.	12 volt DC, 33Ah gel battery (12 hr. run time), 2 batteries included.
<b>PUMP(S)</b>	4 gpm @ 160 psi, feed pump	2 gpm @ 100 psi, pure water pump
<b>HOSE LENGTH</b>	166 ft. (yellow)	166 ft. (yellow)
<b>PURE WATER STORAGE</b>	0 gallons	0 gallons
<b>WATER USAGE GAUGE</b>	Yes	Yes
<b>GALS/MIN - # OF POLES</b>	1.96 gpm @ 68°F* - 2	0.56 gpm @ 68°F* - 1
<b>FILTERS</b>	Sediment Filter, Carbon Filter, DI Resin Sock, Reverse Osmosis Membranes	Sediment Filter, Carbon Filter, DI Resin Sock, Reverse Osmosis Membranes (2)
<b>COMMENTS</b>	Runs 2 poles, reliable, easy to use, compact.	Great for Residential, no need for electric hookup.
<b>PRICE - PART NUMBER</b>	142-102     \$5,357.05	142-101     \$5,233.65

\* Water production rate varies based on feed water temperature. Production rate drops with lower water temperatures.

### RO/DI Replacement Parts

DI Replacement Sock	145-101	\$96.90
Filter, Sediment - RO/DI Cart	145-102	\$29.60
Filter, Carbon Repl - RO/DI Cart	145-103	\$29.60
Membrane, RO Repl - RO/DI Cart	145-104	\$351.90

### TDS Meter

Measure the Total Dissolved Solids of your water before and after purification. Included with each unit above.  
 145-100     \$52.05





## Simple and Affordable, Compact Pure Water

The QuattRO from Ionic Systems is a versatile water-purification system that enables you to produce pure water on demand. The standard QuattRO trolley is able to produce pure water using water pressure alone, and can provide pure water for poles up to 45 feet in areas of normal water pressure. For extra height, the QuattRO electric has a powerful 110v pump that will comfortably provide water for two poles right up to 60 feet. These are available with dual membranes for additional water production.

**NEW**09

Watch the QuattRO video at [SafeWindowCleaning.com](http://SafeWindowCleaning.com)



**QuattRO Basic**



**QuattRO 12 volt**



**QuattRO 110 volt, Twin RO**

<b>Weight</b>	59 lbs.	69 lbs.	92 lbs.
<b>Power</b>	Water Pressure (45 lbs. +)	12 volt pump	110 volt / 60 Hz
<b>Filter Configuration</b>	1 Carbon/Sediment, 1 RO, 2 DI	1 Carbon/Sediment, 1 RO, 2 DI	1 Carbon/Sediment, 2 RO, 1 DI
<b>Number of Poles</b>	1	1 to 2	2
<b>Building Stories</b>	2-3 if water 60psi	2 poles 3 stories, 1 pole 6 stories	5-6 stories
<b>Output (Gal/Min)</b>	0.6 gpm	1 gpm	1.5 gpm
<b>Output Hose</b>	100 ft. 1/2 in. blue	100 ft. 1/2 in. blue	100 ft. 1/2 in. blue
<b>Part # - Price</b>	168-201 - \$2,395.00	168-202 - \$3,095.00	168-203 - \$3,795.00
<b>Options/Comments</b>	The QuattRO Basic uses tap water pressure, the unit works best with 60psi and allows you to make pure water without electricity, batteries or pumps.	Price includes Booster Pump, Sealed Battery (12v, 75Ah), Battery Power Box Station, 8amp Battery Charger	Two RO cartridges delivers the lowest cost water, this requires the 110v pump.

### QuattRO Replacement Filters



Carbon/Sediment Filter  
169-167 \$98.95



Colorchange DI Filter  
Blue 169-166 \$98.95  
Green 169-165 \$98.95  
\*(for other Ionic units, not QuattRO)



Reverse Osmosis Membrane  
169-168 \$498.00



*Upgrade your QuattRO Basic for more performance.*

#### 12v Booster Kit

Kit Includes:

- Kit includes Booster Pump
  - Battery (12v, 75Ah)
  - Battery Box Power Station
  - 8amp Battery Charger
- 168-205 \$775.00



#### Battery

Sealed lead acid 12v battery. 75Ah will power the QuattRO for a full day. Battery terminals are threaded for a secure fit. 6-year service life, 2-year warranty.  
168-207 \$195.00

*These are already in the kit.*



#### Power Station

Press button for battery status. External terminals make charging a snap. Features built-in LED battery condition indicator, 10 amp circuit breaker, cigarette-style receptacle for easy powering of pump, easy-carry handle.  
168-206 \$65.00

# Ettore's Aquaclean: Five-Stage Water Purification

Aquaclean's Pure Water Technology turns ordinary tap water into the purest water in the world, creating a powerful cleaning agent that leaves surfaces spot-free without water softeners or cleaning agents. Perfect for glass, frames, awnings, facades and signs.



Lease a system for about **\$250** Per Month

Includes a water maker and pole.



**Aquaclean Trolley**



**Aquaclean Dolly - 110v.**



**Aquaclean Dolly - Battery**

<b>SIZE - WEIGHT</b>	45"L x 30"W x 46"H - 400 lbs.	51"L x 40"W x 37"H - 500 lbs.	29"L x 27"W x 54"H - 257 lbs.
<b>POWER</b>	12 volt Deep Cycle Battery	110 volt	12 volt Deep Cycle Battery
<b>PUMP(S)</b>	12 volt switched pump, 12 volt booster pump	12 volt switched pump	12 volt switched pump
<b>HOSE LENGTH</b>	150 ft. (yellow)	150 ft. (yellow)	150 ft. (yellow)
<b>PURE WATER STORAGE</b>	42 gallons (work up to one hour without a water source)	0 gallons	0 gallons
<b>TDS METER</b>	Attached, reads in and out TDS.	Attached, reads in and out TDS.	Attached, reads in and out TDS.
<b>GALS/MIN - # OF POLES</b>	1 - 1	2 - 2	1 - 1
<b>FILTERS</b>	5 Micron Filter, Carbon/KDF Pretreatment Filter, Anti-Scaling Device; RO Membrane, De-ionization Cartridge	5 Micron Filter, Carbon/KDF Pretreatment Filter, Anti-Scaling Device, RO Membrane, De-ionization Cartridge	5 Micron Filter, Carbon/KDF Pretreatment Filter, Anti-Scaling Device, RO Membrane, De-ionization Cartridge
<b>COMMENTS</b>	Can be used in or out of the truck, will fit in an elevator. Work one hour without water/electric hook up.	Compact easy to load and unload, runs 2 poles	Compact easy to load and unload, runs 1 pole
<b>PART # - PRICE</b>	115-101    \$6,114.90	115-104    \$4,589.00	115-103    \$4,074.90

### Aquaclean Supplies

TDS Monitor	117-101	\$196.00
Sediment Filter, 5 Micron	118-101	\$56.75
KDF/Carbon Filter	118-102	\$220.00
Anti-Scaling Device	118-103	\$600.00
Membrane, Reverse Osmosis	118-104	\$920.00
DI Cartridge 22 in. (Trolley unit)	118-105	\$216.00
DI Cartridge 42 in. (Dolly unit)	118-106	\$217.00
Booster Pump, 12 volt	118-110	\$500.00
Supply Pump, 12 volt	118-111	\$340.00
Hose, 150 ft. Yellow Replacement	118-112	\$260.00
Hose, 150 ft. Yellow Add-On	118-113	\$260.00
Hose Spigot with Hole	118-114	\$32.00

### Van-Mounted Aquaclean Model

- 51"L x 40"W x 37"H - 500 lbs.
  - 12 volt Deep Cycle Battery, 12 volt switched pump, 12 volt booster pump
  - 2 reels with 150 ft. (yellow)
  - 200 gallons
  - TDS meter attached, reads in and out
  - 1 gal/min, supports 2 poles
  - 5 Micron Filter, Carbon/KDF Pretreatment Filter, Anti-Scaling Device, RO Membrane, De-ionization Cartridge
  - Work 4 hours w/o water or electric hookup, 2 hose reels
- 115-102    \$8,154.90

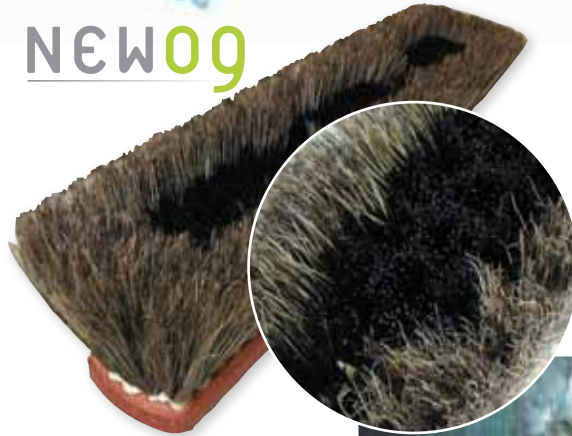


### 3-Star Hybrid Double-Trim Brushes for All Brands

Some glass cleans better with nylon bristles because it can scrub harder on stains and marks (like bird droppings). Other glass cleans better with boar's hair bristles which are softer and lie down to better agitate dirt from the glass. The Hybrid Nylon and Boar's Hair brush combines the best of the two. Available for all major poles, or un-drilled so you can customize your own.

16 in. no holes drilled	25-1160	\$99.00
16 in. for Unger CarbonTec	66-217	\$95.00
16 in. for Tucker	66-454	\$95.00
16 in. Complete for Tucker	66-455	\$120.00
16 in. for Ettore	110-108	\$99.00
16 in. for IPC Eagle	133-109	\$99.00

NEW09



### 3-Star Boar Hair Brushes for All Brands

These brushes have quickly become the industry standard because they agitate the dirt better and clean in corners in cracks better than nylon.

16 in. Complete for Tucker	66-453	\$107.25
12 in. for Tucker	66-448	\$75.00
12 in. Complete for Tucker	66-452	\$98.00
16 in. for Tucker	66-449	\$83.25
16 in. for CarbonTec	66-216	\$83.25
12 in. for CarbonTec	66-215	\$75.00
12 in. for AquaClean	110-105	\$83.25
16 in. for AquaClean	110-106	\$88.50

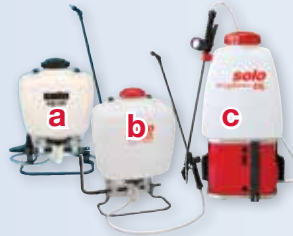


### Backpack Sprayer Pumps

Carry your pure water with you. Great for storefront and residential portable water needs

- High-density polyethylene tanks with ultra-violet inhibitors
- Chemically resistant Viton® seals insure long life and durability

A) 4 Gallon Pump	150-070	\$129.00
B) 5 Gallon Pump	150-071	\$139.00
C) 5 Gallon Battery	150-072	\$397.80



### Water Storage Tank

Carry several hours worth of pure water in your vehicle, saves time finding a water source. Simply attach to a 12v pump and get to work. Caution: water is heavy, make sure your tanks are professionally secured to the vehicle's frame.



100 Gallons	150-060	\$382.50
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### Link Ramps

These lightweight aluminum, heavy duty folding ramps help roll WFP equipment on and off vehicles. All feature non-slip surfaces, fold roughly in half and have a 6 in. lip to secure to vehicle.

Light Weight Folding Ramp (24 x 90 in.)	47-110	\$400.00
<i>Weight capacity = 500 lbs.</i>		
Heavy Duty Folding Ramp (30 x 72 in.)	47-103	\$468.00
<i>Weight capacity = 1,000 lbs.</i>		
Heavy Duty Folding Ramp (30 x 90 in.)	47-105	\$550.75
<i>Weight capacity = 1,000 lbs.</i>		





## Portable De-Ionization Cart

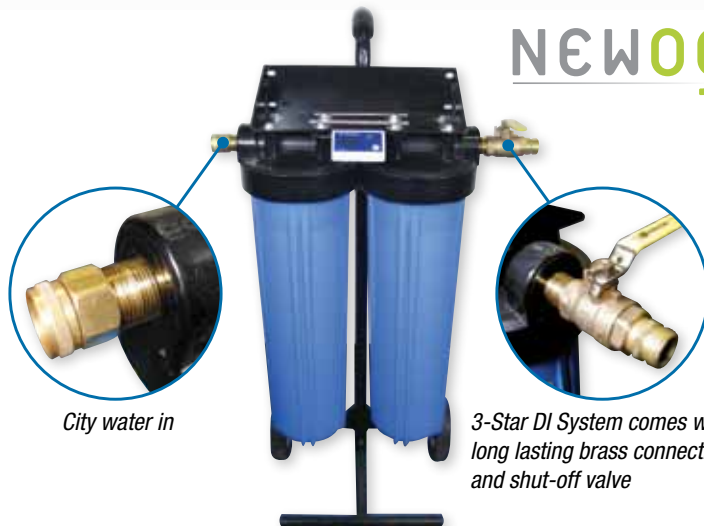
### 3-Star DI Cart:

The DI Cart consists of two de-ionization housings with replaceable cartridges that simply slide into the watertight housings. The entire unit is mounted on a powder coated, rust resistant rolling cart that makes it convenient to move into position and store away when finished.

- Includes two 20-inch de-ionizing resin cartridges hose connectors, battery operated water quality (TDS in ppm) indicator a 2 gpm flow restrictor and brass ball valve.
- The DI Resin can be replaced by purchasing new cartridges for simple exchange or you can pour out and discard the old resin and get bags of resin to refill the existing cartridges.
- Weighs 54 lbs.

150-053

\$495.00



NEW09

City water in

3-Star DI System comes with long lasting brass connections and shut-off valve

Comes with two cartridges

TDS PPM	Bag Refill Cost Gallons	Per Gallon
100	800	0.12
200	400	0.24
400	200	0.48



### 20 in. DI Cartridge

2 Cartridges

150-058 \$140.00

### DI Cartridge Resin Refill

Pre-measured DI Resin Bags make re-filling a snap. Open the bottom of the cartridge and replace the resin. 2 pack

150-059 \$95.00



## 3-Star Replacement Filters



### Ettore Replacement Filters

5 Micron Sediment Filter - Particulate 10 in.	150-005	\$20.50
KDF Carbon Filter 10 in.	150-009	\$118.75
RO Membrane Super Hi Flow 40 in.	150-013	\$575.00
DI Cartridge 20 in. - Trolley/Van	150-012	\$101.00
DI Cartridge 42 in. - Dolly	150-010	\$157.25

### IPC Eagle Replacement Filters

5 Micron Sediment Filter - Particulate 10 in.	150-005	\$20.50
Carbon Filter 10 in.	150-006	\$23.50
DI Cartridge 22 in.	150-011	\$93.75
RO Membrane Super Hi Flow 21 in.	150-014	\$385.00

### WFP Rack Brackets

A fast, easy and secure way to mount your WFPs to your vehicle. This stainless steel bracket is screwed or riveted to the vehicle, and opens and closes easily by turning the threaded lever. Thick and thin rubber bushings (included) are interchangeable to secure various sized poles from 1 to 2 inches in diameter. Two per package.



As seen in JRC's Window Wagon.

Pair 150-003 \$91.80

### Extension Cord Clamp

This lightweight extension cord connector keeps your cords clamped together with a heavy duty spring. It's made of high impact polymer for long life and high visibility. Installs in seconds and it's universal size helps it fit snugly on 14, 16, or 18 gauge extension cords.



54-10 \$5.40

NEW09

### H2OPro TDS Meter

Factory-calibrated, portable TDS Meter, remove the protective cap, fill it with the water to be tested, turn it on and insert into the water; the TDS will register instantly.

- Self contained cell design
- Automatic temperature compensation (ATC)
- Splash-proof housing
- Calibrating tool included
- 200 hour battery life
- Pocket clip
- Operating temp: 1° - 50°C
- Dimension: 147mm (L) x 32mm (W) x 15mm (H), 4 oz.



150-020 \$35.00

### Inline TDS Meter

Install this inline meter permanently on your RO/DI rig and measure both in (dirty) and out (purified) TDS levels. This meter will help you determine when the filters need to be changed. Always know how your system is performing. Available for 3/8" and 1/2" tubing. Uses 2 AAA batteries (included).

3/8 in. 150-018 \$89.50  
1/2 in. 150-019 \$89.50



### Manual Hose Reel

- One piece all welded steel "A" frame construction
- Low profile riser & open drum slot for smooth, even hose wraps
- Solid steel crank with smooth round handle
- Permanently lubricated pillow block bearings for smooth rotation
- Long-handled lock pin secures reel from rotation
- Adjustable friction brake assembly to brake or lock the drum

68-101 \$231.55



### Hand Crank Hose Reel

- Hose control bar prevents hose from slipping
- Direct hand crank rewind design
- Brake assembly provides adjustable friction to brake or lock the drum

68-112 \$174.45



### 12v. Electric Hose Reel

- All features listed above for the Manual Reel, plus:
- Direct gear drive on motor driven models - no chains

68-102 \$558.00



### Manual Electric Cord Reel

This hand crank reel has a convenient handle to carry it.

- Holds 80 ft. of 8 gauge, 135 ft. of 10 gauge, or 300 ft. of 12-gauge electrical cord

68-110 \$164.25



### 4-Way Roller Bracket

- 4-way enclosed pinch-proof stainless steel rollers are 1 in. diameter
- Supported by powder coated steel brackets

68-109 \$137.00



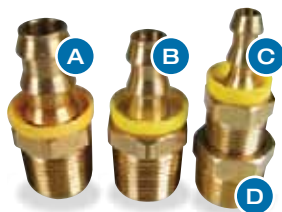
### Reel Cart

- Steel round handle detaches for compact storage
- Steel front legs with rubber feet prevent sliding
- High grade ball bearings with hardened cup
- 1/2" diameter steel axle
- Solid 8 in. rubber tires

68-105 \$113.25



**Brass Hose Fittings - Use these to customize your water lines on your poles or water makers.**



**Hose Connectors**

A. 1/2 in. - 1/2 in. Male	150-129	\$8.05
B. 3/8 in. - 1/2 in. Male	150-128	\$7.20
C. 1/4 in. - 3/8 in. Male	150-127	\$5.85
D. 1/2 in. x 3/8 in. Hex Bushing	150-126	\$1.60



**Garden Hose Adaptor Fittings**

E. 3/4 in. Female to 3/4 in. Female Pipe, Swivel	150-123	\$4.10
F. 3/4 in. Female to 1/2 in. Female Pipe, Swivel	150-122	\$3.85
G. 3/4 in. Male to Male Pipe, Tapped for 1/2 in. Female	150-124	\$5.55



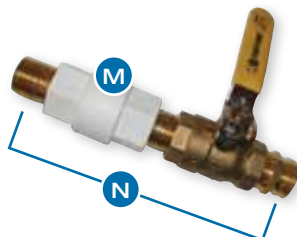
**Garden Hose Quick Release Kit**

Attach the female to your water maker and the male to the end of your supply hose.  
Garden Hose Kit 150-112 \$15.00



**Valves**

H. Male Garden to 3/4 in. Pipe	150-124	\$5.55
I. Brass Ball Valve Female 3/4 in. Pipe	150-134	\$15.30
J. Brass Nipple	150-125	\$2.55
K. Plastic Ball Valve	150-133	\$19.95
L. Brass Nipple	150-125	\$2.55



**3/4 in. In and Out Flow Restrictor**

Many DI systems need the water to flow slowly. This Restrictor keeps the flow under 2.3 gallons per minute.

M. Restrictor	150-132	\$24.95
N. Restrictor Kit	150-130	\$39.90

**Quick-Release Couplers**

Add these into your 1/4-inch pole feed wherever you choose.



**Couplers without Shut-off**

1/4 in. Socket	150-107	\$6.00
1/4 in. Plug	150-106	\$2.50
Plug/Socket Kit	150-108	\$8.00



**Couplers with Shut-off**

1/4 in. Socket w/Shut-off	150-109	\$8.00
1/4 in. Plug	150-106	\$2.50
Plug/Socket Kit (with Shut-off)	150-110	\$10.00

**Fittings in Action**

Start your custom hose with one of these.



In this case, using 1/4" hose barb



End your custom hose with one of these.



In this case using a 3/8" or 1/2" hose barb.



**Most Popular Water Feed for a WFP**



Using F, D and A - see left

**Hoses**

Clear tubing with fiber reinforcement

1/4 in. Hose with Fittings, 50 ft.	150-035	\$27.00
1/4 in. Hose with Fittings, 100 ft.	150-036	\$49.00
1/4 in. Hose Bulk, 300 ft.	150-037	\$145.00

3/8 in. Hose, 150 ft. (yellow)	150-021	\$145.00
3/8 in. Hose, 300 ft. (yellow)	150-024	\$280.50
1/2 in. Hose, 100 ft. (blue)	150-025	\$147.90
1/2 in. Hose, 200 ft. (blue)	150-026	\$305.00
3/8 in. Hose lead out, 25 ft.	150-030	\$55.00



**Brass T-Connectors**

1/4 in.	150-113	\$5.50
3/8 in.	150-114	\$9.75



**Clamps**

Stainless Steel (10)	150-115	\$1.40
Plastic (10)	150-116	\$6.50







# SafeWindowCleaning.com



## Change the Way You Do Business

### Benefits of Water-Fed Poles

- » Safety
- » Work Faster
- » Ultra Clean Glass
- » Profitability

### Why Pure Water

- » Total Dissolved Solids
- » What's in Tap Water

### Equipment

- » Poles
- » Brushes
- » Water Purifiers
- » Parts/Accessories
- » Shop by Brand

### How It Works

### Videos

### Local Demonstrations

Water-fed poles and pure-water systems offer many advantages to companies that clean windows up to five stories:

- Keeping workers' feet on the ground reduces accidents dramatically.
- Eliminating ladders, lifts and rope-descent means the work can be done faster.
- Working faster means you can make more money.
- Using pure water instead of soap actually delivers cleaner glass.
- Your customer loves the results, and you are off their property faster; it's a win-win.

We hope this web site answers all your questions and helps you decide which equipment is best for your company.



How It Works



## 800-221-3748

J. Racenstein's dedicated water-fed web site has everything you need to help you get the best system for your particular needs. Visit today and click through the entire site; read how-to articles, watch informational videos, and compare the systems; you can even shop for accessories and replacement parts. Happy cleaning.

*J. Racenstein's Window Wagon will tour the US throughout 2009 demonstrating Water-Fed Systems. Visit [jracenstein.com/wagon](http://jracenstein.com/wagon) for the schedule.*



J. Racenstein sells more Water-Fed equipment in the US than any other distributor. We carry the best selection from the best manufacturers in the world. Our qualified and experienced staff can demonstrate this equipment and help you with your purchasing decisions; don't hesitate to call for a consultation.

Your Water-Fed Pole catalog was here. Need another?  
Send one to a friend? Call us at 800-221-3748.

**BUDGET STRETCHER** green prices mean savings for you

### JRC Window Cleaning Starter Kit

Window Cleaning Techniques DVD  
Ettore Quick Release Brass Handle  
Ettore 6 in. Brass Channel  
Ettore 10 in. Brass Channel  
Ettore 18 in. Brass Channel  
3-Star 6 in. T-bar  
Unger ErgoTec® 14 in. T-bar  
Unger ErgoTec® 18 in. T-bar  
3-Star 6 in. Sleeve  
Unger 10 in. Monsoon Sleeve  
Unger 18 in. Monsoon Sleeve  
Unger Belt with 2 Loops  
Unger Henry's Double Holster  
Tubex by Pulex  
New Ettore Super Bucket with Handle  
Garelick 12 ft. 3-Section QuikLok Pole  
12-011 \$257.50 **Save \$38.55**



### 3-Star Window Cleaning Starter Kit

Window Cleaning Techniques DVD  
Pulex Stainless Steel Handle  
Pulex 6 in. Stainless Steel Channel  
Pulex 14 in. Stainless Steel Channel  
Pulex 18 in. Stainless Steel Channel  
Pulex 10 in. Aluminum T-bar  
Pulex 14 in. Aluminum T-bar  
Pulex 18 in. Aluminum T-bar  
3-Star 10 in. Sleeve  
3-Star 14 in. Sleeve  
3-Star 18 in. Sleeve  
3-Star Holster  
Tubex by Pulex  
Ettore Belt with Loop  
Pulex Window Cleaner's Bucket  
Garelick 12 ft. 3-Section QuikLok Pole  
GS50 Single Razor Scraper with Rubber Grip  
#12 Single Edge Blades (100)  
12-010 \$193.50 **Save \$41.90**



### Advanced Window Cleaning Kit

*This kit is a supplement to our starter kit.*  
Glass Gleam 3, Quart  
8 oz. #3 Floater Bottle  
9 in. Ledger  
Triumph MK3 Scraper  
Triumph 6 in. Carbon Blades (25)  
Unger RubOut, Pint  
Sorbo Stain Remover, 5 oz.  
4-way Water Key with Carabiner  
3-Star 6x9 in. White Scrub Pad (3)  
Skid-Resistant Shoe Covers (100)  
12-012 \$105.00 **Save \$22.50**



green prices mean savings for you **BUDGET \$TRETCHER**

### 3-Star Steel Wool Washer Sleeve

Window washers have tried to attach steel wool to poles in a variety of ways. 3-Star made it easy. This product weaves together the finest Steel Wool and soft cloth fibers to create a tough sleeve.

This workhorse will help you perform many tasks faster and help you make more money. Available in Stainless and Carbon Steel. 10 per package.

- Carbon Steel wool - "0000" grade
- Stainless Steel wool - "000" grade

*sold in handy 10-packs*

Size/Material	Part	Price
Steel Wool Sleeve 6"	11-0065	\$72.00
Steel Wool Sleeve 10"	11-0105	\$79.00
Stainless Steel Wool 6"	11-0064	\$80.00
Stainless Steel Wool 10"	11-0104	\$88.00



Patent Pending

WARNING: Steel fibers can rust and stain surfaces.

### 6" T-bar

For those small french-door windows and other small cleaning jobs, this durable t-bar is just the ticket. This T-bar can be used with the Steel Wool Sleeve.

14-006 \$6.50



### 3-Star Sleeve

Value leader. Durable white sleeve. 3-Star offers the only 36" sleeve and it fits Unger and Sörbo T-bars.

Size	Part	Price	Save on 12+
6"	11-0061	\$5.50	\$7.92
10"	11-0101	\$6.50	\$9.36
14"	11-0141	\$7.50	\$10.80
18"	11-0181	\$9.00	\$12.96
22"	11-0221	\$10.25	\$14.76
36"	11-0361	\$14.75	\$21.24



### Blue Max Washer and Scrubber

On one side the Blue-Max is a soft washer, on the other it's an abrasive pad with tough scrubber strands; it holds plenty and withstands tough daily treatment. The pad can easily remove bird droppings, etc. Fits on all popular T-bars.

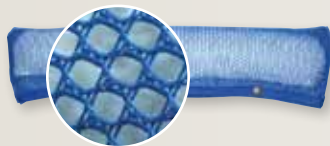
Size	Part	Price	Save on 12+
6"	11-0063	\$5.95	\$8.57
10"	11-0103	\$6.95	\$10.01
14"	11-0143	\$7.95	\$11.45
18"	11-0183	\$9.50	\$13.68
22"	11-0223	\$10.75	\$15.48



### Wiljer "Blue Devil" Sleeve Cover

Fits over your washing sleeve to add extra abrasive action (cover only).

18" 11-7182 \$7.25 *Save \$7.25 on 10+*  
 22" 11-7222 \$7.95 *Save \$7.95 on 10+*



### Wiljer Heavy Duty Sleeve

This sleeve has an extra canvas liner that is hand stitched inside of the sleeves, which makes it last longer.

10" 11-7101 \$11.00 *Save \$11.00 on 10+*  
 14" 11-7141 \$13.00 *Save \$13.00 on 10+*  
 18" 11-7181 \$13.75 *Save \$13.75 on 10+*  
 22" 11-7221 \$15.75 *Save \$15.75 on 10+*



### Wiljer White Shark 6" Sleeve

The outer part of this 6 in. sleeve is all white scrub pad and the inner fabric is microfiber and is used as a soaker to carry liquid for a wet scrub. Can be used on glass, awnings, siding, stainless steel, and most flat surfaces.

11-7063 \$5.40



### Ladder Easel Window Cleaning System

This quickly converts your ladder into an efficient window cleaning station. It attaches to common aluminum and fiberglass stepladders, including folding ladders.

- Adjustable, heavy duty, all stainless steel brackets
- Durable vinyl trough collects dirty water runoff
- Easy to install and remove in seconds
- Holds up to 6 storm windows at one time for cleaning
- Takes up less storage space than dedicated A-frame devices and costs much less by using your existing ladder as the support structure
- Kit includes two brackets

Easel 46-10 \$115.00  
 End Cap (1) 46-11 \$8.60



### Win-Mate

Like having an extra helper on the job, the Win-Mate easel gives you a great assist where windows or storm windows are removable.

- Lightweight aluminum folds for easy transportation
  - Adjusts to bring the window to your best working height
  - Long, removable vinyl tray catches water run-off
  - Rubber bumpers on frame protect glass
- Win-Mate 1 (12 lbs.) has one tray for one user at a time.  
 Win-Mate 2 (16 lbs.) has a tray on either side for 2 users.

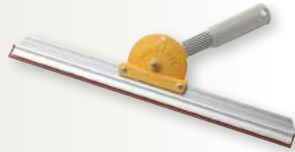
Win-Mate 1 46-01 \$344.00  
 Win-Mate 2 46-02 \$357.00  
 Tray w/Hardware 46-03 \$62.50  
 End Caps (4) 46-04 \$5.90  
 Chain Pins (2) 46-05 \$6.90  
 Bumpers (2) 46-06 \$8.95





**WagTail Aluminum Squeegees**

- Anodized aluminum squeegee channel
  - Lightweight, unique pivot action
  - Uses standard squeegee rubber
- |     |        |         |
|-----|--------|---------|
| 12" | 02-712 | \$18.40 |
| 14" | 02-714 | \$20.40 |
| 16" | 02-716 | \$21.45 |
| 18" | 02-718 | \$22.45 |



**WagTail Slim Line Squeegees**

Robust, lightweight and slimline Aluminium squeegee with lockable handle. Faster than conventional squeegees due to its counterweight and patented pivot design.

- Interchangeable channel lengths
  - Ergonomic design
  - Remarkable speed and productivity
  - Lock into preferred angle or release for constant pivot
  - Lighter weight and further reach
- |     |         |         |
|-----|---------|---------|
| 12" | 02-7121 | \$18.65 |
| 14" | 02-7141 | \$20.70 |
| 16" | 02-7161 | \$21.20 |
| 18" | 02-7181 | \$21.70 |

NEW09



**WagTail Applicators and Sleeves**

- 2-handed technique is easy to master, thanks to the dual pivot action
  - Most sleeves fit on this applicator
- |                |        |         |
|----------------|--------|---------|
| 14" Applicator | 10-714 | \$19.40 |
| 18" Applicator | 10-718 | \$22.50 |



**WagTail Sleeves**

- Durable microfiber pad with velcro straps for Wagtail applicator
- |            |         |        |
|------------|---------|--------|
| 14" Sleeve | 11-7140 | \$7.40 |
| 18" Sleeve | 11-7180 | \$8.70 |

NEW09



**WagTail Flipper & Replacement Mops**

Changes from a fully functional mop to a squeegee in a instant. No need to change tools.

- |             |        |         |
|-------------|--------|---------|
| 12" Flipper | 12-712 | \$26.55 |
| 14" Flipper | 12-714 | \$28.85 |
| 18" Flipper | 12-718 | \$34.20 |
| 12" Mop     | 11-712 | \$7.45  |
| 14" Mop     | 11-714 | \$8.00  |
| 18" Mop     | 11-718 | \$9.05  |



**Lockable Handle**

- Pivoting lockable handle.
- Interchangeable channel lengths
  - Ergonomic design
  - Lock into preferred angle or release for constant pivot to increase speed and productivity
- |        |         |
|--------|---------|
| 11-701 | \$14.80 |
|--------|---------|

NEW09



**WagTail Angle Arm**

- |        |        |
|--------|--------|
| 63-701 | \$5.90 |
|--------|--------|



**WagTail Rubber - 9 ft.**

- |        |         |
|--------|---------|
| 03-709 | \$17.35 |
|--------|---------|



**Steccone Aluminum Channels**

Most rubber fits in Steccone Channels.

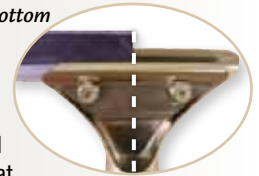
- |     |         |         |
|-----|---------|---------|
| 6"  | 02-6063 | \$5.30  |
| 8"  | 02-6083 | \$5.60  |
| 10" | 02-6103 | \$6.65  |
| 12" | 02-6123 | \$7.30  |
| 14" | 02-6143 | \$7.90  |
| 16" | 02-6163 | \$8.40  |
| 18" | 02-6183 | \$8.70  |
| 20" | 02-6203 | \$9.20  |
| 22" | 02-6223 | \$10.00 |
| 24" | 02-6243 | \$11.00 |



**Reg-Clip Handle**

- 50 - 60% lighter than brass and stainless steel handles. Features aircraft exlastic stop nuts that will not work loose.
- |        |        |
|--------|--------|
| 01-601 | \$6.35 |
|--------|--------|

bottom



**Magi-Clip Handle**

- The world's first single-point, quick-release squeeze handle. Designed and patented in 1953, replacing the rubber or repositioning the channel has never been so easy. Simply depress the Magi-Clip and then release it for a firm hold on the channel and rubber. Equipped with exlastic stop nuts that will not work loose.
- |        |        |
|--------|--------|
| 01-602 | \$8.15 |
|--------|--------|

bottom



**The Ledger makes it possible to clean deep-set windows using a solid, reliable tool.**

- Get to the bottom of the window over a wide ledge
- Fits on most extension poles w/a wooden pole tip
- Put a washer sleeve over the channel to clean glass
- Holds any squeegee channel with two screws
- Reach over window air conditioners
- Reach over ledges and signs

Holds All Channels (sold separately)

Size	Part #	Each	Save on 3+
Standard 7"	45-01	\$26.75	\$4.01
Standard 9"	45-02	\$30.50	\$4.58
Standard 16"	45-03	\$38.00	\$5.70
Standard 22"	45-04	\$44.25	\$6.64
7" Swivel	45-05	\$39.80	\$5.97
Standard Set of 3	45-07	\$100.00	-



**Tool Bungee**

- Never again will you have to watch your squeegee or other tool crash to the ground.
- Triple thick heavy duty connector ring fasteners
  - Connect one end to your tool, other end to a chair, harness etc.
  - Swivel connector reduces twisting or binding
  - Corrosion resistant materials
- |       |         |
|-------|---------|
| 55-21 | \$14.75 |
|-------|---------|



**Water Key with Carabiner**

- |       |        |                   |
|-------|--------|-------------------|
| 55-25 | \$8.75 | Save \$4.20 on 6+ |
|-------|--------|-------------------|

### Ettore 3 1/2 Gallon Round Buckets

Light and tough. Includes handle and plastic grip.  
Sold in pairs (2) only.  
20-113 \$17.75



### New Ettore Super Bucket

Ettore's new and improved bucket comes complete with handle, casters, lid, and hangover sieve. This 6 gallon bucket accommodates an 18" strip washer. 19"x10"x10"

New Super Bucket Complete	20-115	\$96.75
New Bucket with handle only	20-116	\$32.25
New Snap on lid	21-120	\$10.00
New Casters (each)	21-121	\$3.35
New Drain Tray	21-122	\$14.00
Handle	21-111	\$12.00



### Ettore Sidekick

Put your squeegee, washer and a mini-bucket on your hip. Accepts any brand of squeegee and strip washer up to 18". Reversible design for left or right handers. (Belt and tools not included.)

Sidekick	48-11	\$27.00
Male/Female Clip	48-13	\$7.75

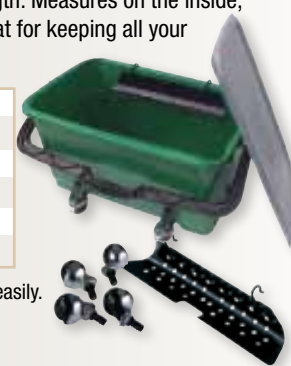


### Unger BigPro Bucket

Holds up to 24 quarts of window cleaning solution. It's a rugged all purpose bucket for window cleaning and janitorial work. Holds washers and tools up to 18 inches in length. Measures on the inside, 22" long by 12" deep by 11 in. wide. Great for keeping all your window cleaning tools together.



BigPro Bucket Complete	20-209	\$93.75
BigPro Bucket	20-211	\$33.75
Snap on lid	20-212	\$9.30
Casters (each)	20-214	\$8.25
Drain Tray	20-213	\$15.85
Bucket Barge	21-215	\$36.00

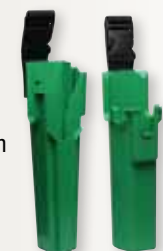


Wheel framework, set bucket down or lift off easily.

### Bucket on a Belt

Available in two versions—the Classic and the 2003. Both hold your Safety Scraper, squeegee and strip washer. The 2003 has been expanded to hold up to two squeegees with a strip washer and may be worn right or left handed. Both feature a quick on and off snap hook. *Please specify model.*

Classic	48-21	\$28.50
2003	48-22	\$28.50



Classic 2003

### Pulex Window Cleaner's Bucket



Designed for window cleaning, floor waxing and other uses, the Pulex bucket is ideal for professionals who use tools that are too wide for ordinary round buckets. Holds 6 gallons of cleaning solution and is 10" wide, 10" deep and 19" long.

Window Cleaner Bucket Complete	20-309	\$93.25
Blue Bucket with handle only	20-311	\$20.25
Snap on lid	21-312	\$8.15
Casters (each)	21-314	\$6.15
Drain Tray	21-313	\$18.50
Replacement Handle	21-311	\$7.70
Small Clips (2)	21-315	\$0.80
Large Clips (2)	21-316	\$1.15



### Quadropod



Truly unique tripod rolling bucket support. Pull along, or pick up and legs automatically pull together. Set down and they spread apart again.

Quadropod	21-411	\$128.55
Bucket Lock	21-415	\$8.50



### Leif Cart

Easily roll window cleaner buckets on rough surfaces; extension handle eliminates the need to bend over. Patented pivoting rack carries all large buckets and prevents water spills. Price includes cart and handle (*bucket not included*).

21-412	\$122.15
--------	----------



### Tubex by Pulex

The window cleaners faithful friend. A multi-purpose holster features a main compartment for holding cleaning water and three additional compartments for carrying different sizes of squeegees. Can be worn left or right handed.

Tubex w/Detachable Clip	48-31	\$23.00
Male End Clip	48-32	\$5.30
Fixed Loop Tubex	48-30	\$18.25



### 3-Star Buckets



White, 5 Gallon	21-701	\$5.45
H.D. White, 5 Gallon	21-702	\$6.95
Green, 5 Gallon	21-703	\$5.45
Red, 5 Gallon	21-704	\$5.45
Orange, 5 Gallon	21-705	\$5.45
White, 3.5 Gallon	21-710	\$5.10

### Bucket Cruiser

Turns a 5-Gallon Bucket into a rolling workstation. Features upright receptacles to hold tools or to connect units.

20-701	\$28.60	Save \$4.29 on 3+ (bucket and tools not included with Cruiser)
--------	---------	---





**100% Pure Bristle Window Cleaning Brushes**

A favorite of window cleaners who like the traditional benefits of these imported hog's hair brushes.

- High quality hog bristle hand set into lightweight mahogany wood block
- Wide flare for washing large surfaces
- Split end bristles hold extra water
- Available in 3 1/2" Trim
- Available from 10" to 16" to suit your needs

**STYLES**

"F" is purely hand held

"S" is handheld with a tapered hole on the side of the wooden block

"M" features a metal-reinforced tapered, or threaded hole on the top of the wooden block



	"F"		"S"		"M" Tapered		"M" Threaded	
Length	Part#	Price	Part #	Price	Part #	Price	Part #	Price
10 in.	25-1101	\$48.00	25-1102	\$47.00	25-1103	\$50.00	25-1104	\$48.50
12 in.	25-1121	\$52.00	25-1122	\$52.00	25-1123	\$55.25	25-1124	\$53.25
14 in.	25-1141	\$60.50	25-1142	\$60.75	25-1143	\$62.50	25-1144	\$60.00
16 in.	25-1161	\$64.00	-	-	25-1163	\$66.00	25-1164	\$64.00

Aluminum Handles  
page 68

**Window Tract Cleaning Brush**

- Epoxy setting makes this brush stronger and non-shedding
  - Best quality nylon bristles in the center for added stiffness
  - Longer bristles for getting into recesses and corners
  - Can be used wet or dry
- 25-1001 \$17.10



**Screen Brush**

Eight-inch flagged brush with synthetic bristles to pick up the finest dirt.  
25-501 \$7.00



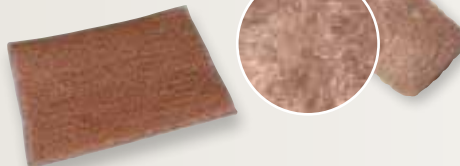
**Extra Fine Steel Wool**

- Ideal for glass polishing
  - Grade 0000
  - So fine that it's perfect for glass, marble, metal and ceramic
  - Another tool you'll need in your war against grime
  - Professional quality for professional results
- Bag (16 Pads) 26-20 \$4.95 *Save \$11.88 on 12+*  
6 x 9 Pad 26-52 \$2.65



**Bronze Fine Wool**

Fine bronze wool is a flexible abrasive for polishing. Unlike steel wool, bronze wool resists shredding, rust, and corrosion.  
3 Pads 26-50 \$3.60  
6 x 9 Pad 26-53 \$5.05



**Steel Wool Roll**

Ideal for glass, metal and ceramic. 0000 grade. Pull a large wad for heavier cleaning.  
5lbs. 26-22 \$41.00



**3-Star Steel Wool Washer Sleeve**

Window washers have tried to attach steel wool to poles in a variety of ways. 3-Star made it easy. This product weaves together the finest Steel Wool and soft cloth fibers to create a tough sleeve.

This workhorse will help you perform many tasks faster and help you make more money. Available in Stainless and Carbon Steel. 10 per package.

- Carbon Steel wool - "0000" grade
  - Stainless Steel wool - "000" grade
- Steel Wool Sleeve 6" 11-0065 \$72.00  
Steel Wool Sleeve 10" 11-0105 \$79.00  
Stainless Steel Wool 6" 11-0064 \$80.00  
Stainless Steel Wool 10" 11-0104 \$88.00



green prices mean savings for you



**Drip Guard**

Never drip soapy water on a customer's floor again. This absorbent foamy end-cap fits snugly on all buckets-on-belts catching all your drips. When you are done simply wring it out and get back to work.  
55-27 \$7.95 *Save 3.98 on 5+*

**SafeWindowCleaning.com**

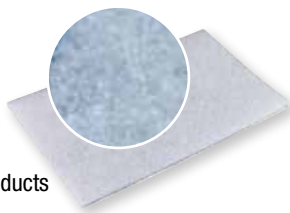
A site dedicated to Water-Fed Poles and Systems





### White Nylon Scrub Pads

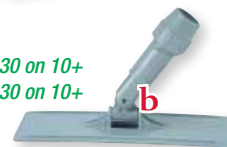
- Won't scratch glass
  - Works best with pastes & powders
  - Pads measure 9" x 6" x 1/4"
  - Ideal for the application of stain removal products
  - For hand-held use
- 26-10 \$0.90 *Save \$1.62 on 12+*



### Abrasive Pads and Holders

An assortment of abrasive pads and holders for glass and other surfaces. These holders accommodate 4.5" x 10" pads.

A) Handheld Scrubber w/2 Pads	362-150	\$15.75	
B) Pad Holder with 2 pads	362-151	\$17.00	
Brown Replacement Pad	362-161	\$3.30	<i>Save \$3.30 on 10+</i>
White Replacement Pad	362-162	\$3.30	<i>Save \$3.30 on 10+</i>
Pad Holder w/2 Pads, Universal	362-153	\$13.00	



### Blue Contour Pad

Contains an organic compound that cleans without scratching. Contoured to match the natural shape of your hand.

26-12 \$0.85 *Save \$1.02 on 12+*

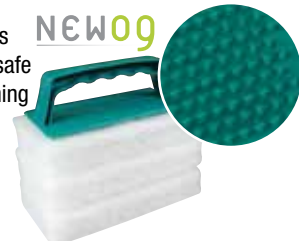
**NEW09**



### Scrubber Pads and Gripper

The Gripper scrub pads are non-abrasive, nylon pads that help clean a variety of surfaces. The Gripper is safe to use on glass and complements many of our cleaning products.

3" x 6" Pad	26-61	\$0.95	
Gripper	26-62	\$2.50	
Set w/ 3 Pads	26-60	\$5.50	



### Wijler White Shark Hand Pad

Made of all non-abrasive soft material, this white hand scrub pad can be used on glass, awnings, siding, stainless steel, and most flat surfaces. Can be used dry or wet. It can be used with chemicals too.

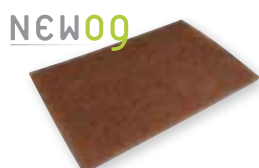
26-31 \$4.55



### Walnut Scrub Pad

Scratch resistant hand pad with aggressive cleaning action. Contains crushed walnut shells which makes it safe to use on any surface where scratching is a concern.

6 x 9 Pad 26-11 \$0.85 *Save \$1.02 on 12+*



### Wijler Handheld Pad

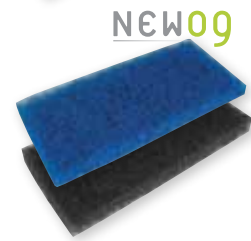
Applicator	26-40	\$9.05
Slip-on Bonnet	26-35	\$4.70



### Medium and Heavy Duty Scrub Pads

Medium duty pad used to clean baseboards, swimming pool walls, and scuff marks on floors. Heavy duty utility pad used to clean heavily soiled areas. Easily removes old finish and wax build up. 4 x 10 in. Not recommended for glass.

Blue Medium Duty	362-164	\$1.95	<i>Save \$2.34 on 12+</i>
Black Heavy Duty	362-165	\$1.95	<i>Save \$2.34 on 12+</i>



### Wijler Swivel Mop

Swivel Mop	26-41	\$8.30
Microfiber Bonnet	26-36	\$7.40



### Natural Sponges

Their extreme softness and amazing water holding capabilities make them perfect for window cleaning and or wall washing.

- Effective for washing small panes, wiping sills
- High-quality deep water sponges
- Harvested from the ocean floor
- Reduces up and down ladder trips

Medium	22-12	\$5.75	<i>Save \$6.90 on 12+</i>
Large	22-13	\$8.40	<i>Save \$10.08 on 12+</i>
Extra Large	22-14	\$11.25	<i>Save \$13.50 on 12+</i>



### 12+Sponges with Chamois and Microfiber

The washing and drying advantages of chamois and microfiber wrapped around these absorbent sponges.

**NEW09**

*Save on 12+*

3" x 5" Chamois/Microfiber	23-21	\$2.75	<i>\$3.96</i>
4" x 7" Chamois/Microfiber	23-22	\$3.25	<i>\$4.68</i>
3" x 5" Microfiber	23-24	\$3.25	<i>\$4.68</i>
4" x 7" Microfiber	23-25	\$3.85	<i>\$5.54</i>
3" x 5" Chamois	23-26	\$2.20	<i>\$3.17</i>
4" x 7" Chamois	23-27	\$2.75	<i>\$3.96</i>
Circular Chamois Sponge	23-28	\$1.95	<i>\$2.81</i>



### Synthetic Sponges

High absorbency synthetic poly-foam sponges offer large sizes at economical prices. Choose from these varieties.

Copal	23-11	\$4.95	<i>Save \$5.94 on 12+</i>
Jumbo	23-15	\$6.50	<i>Save \$7.80 on 12+</i>

8 1/4" x 7 1/4" x 2 1/2"



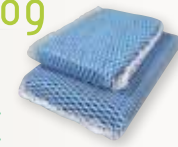
6" Round x 2 1/4"

### Sponges with Mesh Scrubber

Nylon mesh covered sponge ideal for cleaning glass. Will not scratch.

**NEW09**

3" x 5"	23-16	\$1.25	<i>Save \$1.50 on 12+</i>
4" x 6"	23-17	\$1.75	<i>Save \$2.10 on 12+</i>



### Sponge with Walnut Scrubber

A utility cellulose sponge with scratch resistant walnut pad. The pad contains crushed walnut shells which makes it safe to use on any surface where scratching is a concern.

23-32 \$1.95 *Save \$2.34 on 12+*

**NEW09**



### Contour Sponge with Scrubber

A utility cellulose sponge with scrubber that contains an organic compound that cleans without scratching. Contoured to match the natural shape of your hand.

23-31 \$1.95 *Save \$2.34 on 12+*

**NEW09**



green prices mean savings for you



**Turkish Towels**

- All cotton
- Cut to approximately 16" x 28"
- 30 per 10 pound carton
- Excellent for wiping up slop, protecting sills and floors
- Packaged in 5 or 10 pound boxes

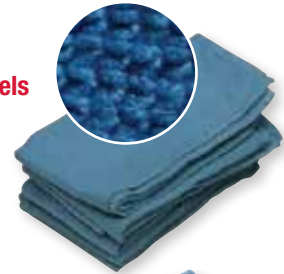
White, 10 lbs.	24-32	\$46.00
White, 5 lbs.	24-34	\$24.50
Red, 5 lbs.	24-36	\$24.50
Blue, 5 lbs.	24-37	\$24.50
Green, 5 lbs.	24-38	\$24.50



**Pre-Washed New Surgical Towels**

- All cotton
- Approximately 17 x 27 in.
- Finished edges

10 lbs. (50-60 towels)	24-31	\$55.00
5 lbs.	24-33	\$30.00



**Recycled Surgical Towels**

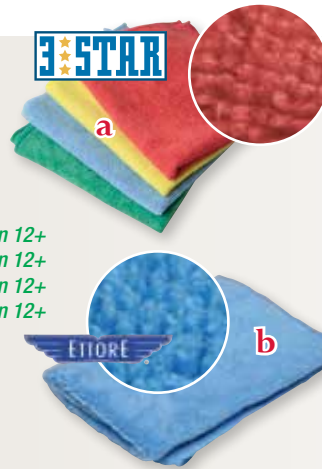
These towels can be used as general cleaning cloths; window, mirror and glass towels. Huck towels are 100% cotton, absorbent, and lint-free. Approx. 15 x 21 in.  
10 lbs. (50 - 60 towels) 24-51 \$40.75



**Microfiber for Washing or Drying**

The new buzz word, microfiber towels provide the best washing and drying properties. These lint-free towels will not let you down. Perfect for dry cleaning of glass, computer screens, window frames etc.

A) 3-Star 16" x 16" Blue Microfiber Towel	24-55	\$2.25	Save \$2.70 on 12+
3-Star 16" x 16" Green Microfiber Towel	24-56	\$2.25	Save \$2.70 on 12+
3-Star 16" x 16" Red Microfiber Towel	24-57	\$2.25	Save \$2.70 on 12+
3-Star 16" x 16" Yellow Microfiber Towel	24-58	\$2.25	Save \$2.70 on 12+
B) Ettore 16" x 20" Micro Swipe Towel	24-11	\$5.10	
C) Unger 16" x 16" Microfiber Towel	24-21	\$4.70	
Heavy Duty Red Microfiber Towel	273-101	\$5.05	
Heavy Duty Yellow Microfiber Towel	273-102	\$5.05	
Heavy Duty Green Microfiber Towel	273-103	\$5.05	
Heavy Duty Blue Microfiber Towel	273-104	\$5.05	



**Imported Natural Chamois**

- The finest quality imported tanned chamois
- These fine skins are treated to be velvety soft and super absorbent
- Ideal for professional touch up and detailing
- Nothing leaves glass cleaner, drier and as lint free as natural Chamois
- Can be hand held or draped over the squeegee when using a pole
- A must for residential, chandeliers and mirrors

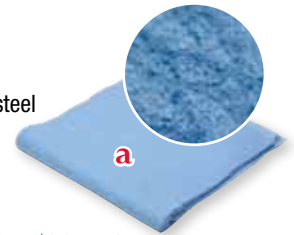


Small (17" x 21")	27-01	\$13.25	Save \$19.08 on 12+
Medium (18" x 23")	27-02	\$15.50	Save \$22.32 on 12+
Large (22" x 30")	27-03	\$19.75	Save \$28.44 on 12+
X-Large (24" x 32")	27-04	\$24.00	Save \$34.56 on 12+

**Disposable Towels and Wipes**

- Great for glass, Plexiglas, aluminum, stainless steel
- Solvent resistant; ideal for heavy-duty cleaning
- Highly absorbent
- Lint-free

A) 13" x 18" Blue Wipes (250)	24-41	\$49.75	Save \$9.95 on 2+
B) 16" x 8" Blue Wipes (125)	24-45	\$13.25	Save \$2.65 on 2+
C) 18" x 9" Blue Towels (300)	24-46	\$35.00	Save \$7.00 on 2+
D) 12" x 9" The Champ (225)	24-47	\$17.00	Save \$3.40 on 2+



**Scrim Wipes**

- 4 plies of textured paper + 1 ply of nylon "scrim" netting between the layers of paper
- Scrim adds strength and durability even when wet
- Great general-purpose wiper with little lint

9" x 17" (150)	24-59	\$14.75
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green prices mean savings for you



### 3-Star Leather Holster

6" Regular Leather Holster features one large loop.  
49-01 \$5.75 *Save \$4.31 on 5+*



### 3-Star Super Duper Holster

Tough & light, a great holster for the residential cleaner.  
• Plenty of storage space for tools  
• Won't rot or mildew  
• Includes 2" nylon belt (29" - 46" long)  
49-02 \$31.00



### Splash-Guard

Eliminate wet, stained pockets! Protect your cell phone, money, and other pocketables with this lightweight gear! Now you can end the day with dry pants, and no rash. Hoster not included.

- Durable clear plastic takes a beating
- Stainless steel alligator clips secure it to your belt
- Grommets at the bottom to tie around your leg

55-26 \$5.00 *Save \$3.00 on 5+*



### Hip Clip

Holds towels with a powerful spring force, but it can be easily opened with the palm of the hand. It can be added at any point on a 2" nylon belt, by using the custom made clip that attaches to the back of the clip or you can use the pants-style slide-on clip. For belts of a different size or thickness, use the supplied screws to more permanently attach the clip at any point on the belt.  
49-05 \$4.95 *Save \$2.97 on 3+*



### Drip Guard



### SORBO PRODUCTS Holsters, Pouches and Belts

- A) Dual Nylon Holster** 49-42 \$28.75  
*holds 2 squeegees (not incl.)*
- B) Scraper Holster** 37-61 \$16.60
- C) Pouch for Steel Wool** 49-41 \$19.90
- D) Belt with 3 Loops** 50-41 \$25.00 *Save \$25.00 on 10+*



### ETTORE Holsters, Pouches and Belts

- E) 7" Master Leather Holster** 49-11 \$12.50
- F) Nylon Dual Holster** 49-12 \$28.60
- G) Tool Belt w/Chamois Loop** 50-11 \$18.40 *Save \$18.40 on 10+*
- H) Scraper Pouch** 37-11 \$14.30
- I) Leather Dual Holster** 49-13 \$21.70



### UNGER

Unger's ErgoTec® Belt System is specially designed so window cleaners can keep all necessary tools by their side. They are lightweight and comfortable.

- J) ErgoTec® Tool Belt** 50-21 \$16.75
- K) ErgoTec® Personal Bag** 50-25 \$12.50
- L) ErgoTec® Suspender Straps** 50-27 \$12.50
- M) ErgoTec® Scraper Holder** 50-26 \$22.75
- N) ErgoTec® Bottle Holder** 50-22 \$8.95
- O) ErgoTec® Pouch** 50-24 \$17.50
- P) ErgoTec® Leather 2-Section Holster** 49-21 \$19.50
- Q) Unger Leather Holster** 49-22 \$22.50
- R) Unger Belt with 2 Loops** 50-20 \$18.65







**Triumph Scrapers and Blades - The World Leader**

- Outstanding sharpness for scraping paint, plaster, tape and adhesives from glass surfaces
- Double edged blades give you more scraping surface than most ordinary scrapers
- Protective cover (included) snaps on to protect blade when not in use
- Durable drop tested molded nylon handle fits comfortably in your hand or on an extension pole
- The Triumph is the best tool for preparing glass surfaces for application of sun screen tinted film
- Easy to change or rotate blades. No screws involved. Just push the handy tab to release the blade and its holder from the handle

**MK3 Straight Scraper**

This is an improved version to the most popular Triumph 6" Scraper with rounded corners for a more comfortable grip.

35-36 \$15.25 *Save \$9.15 on 6+*



**MK3 Angled Scraper**

This makes hand scraping easier and is the ideal tool for construction cleaning with an extension pole to remove stickers, tape, paint other debris from hard to reach windows.

35-37 \$18.00 *Save \$10.80 on 6+*



Attaches to Unger's locking cone (pg. 45) and Ettore's Pro+ Snap-in Pole Tip (pg. 46)

As awarded by The Chicago Athenaeum: Museum of Architecture and Design.



**Triumph 6 in. Scraper**

- Our best seller
- Lightweight and maneuverable
- Easy to clean
- Includes cover and one double-edged blade

35-31 \$13.00 *Save \$7.80 on 6+*



**Triumph 6 in. Angled Scraper**

- The handle is tilted at a 30° angle
- Ideal for scraping film off windows
- Includes cover and one double-edged blade

35-32 \$16.50 *Save \$9.90 on 6+*



**Triumph 6 in. Heavy Duty Scraper**

- Uses a thicker blade (.4 mm) for heavier jobs
- Red handle tells you it's the Heavy Duty
- Easy to reload
- Includes cover and one double-edged blade

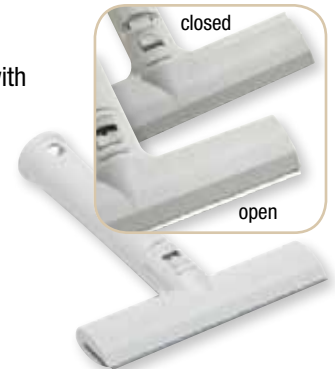
Heavy Duty Scraper 35-33 \$14.75  
6" H.D Replacement Blades (10) 36-42 \$15.75



**Triumph Z-40 Scraper**

- The sliding cover opens or closes with the press of the button
- Saves time and is much safer
- Accepts SS and carbon blades
- Includes one double-edged blade

35-34 \$15.75 *Save \$9.45 on 6+*



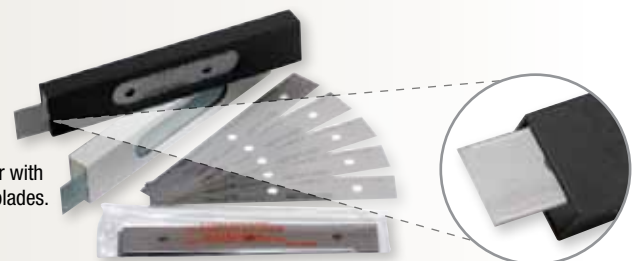
**Triumph 6 in. Blades**

Use carbon blades for heavier, regular use, stainless steel last longer but are not quite as strong. These blades fit all 6-inch scrapers, except Heavy Duty.

Carbon Steel 25 pk. w/Safety Case 36-31 \$18.25 *Save \$10.95 on 6+*  
Stainless Steel 10 pk. w/Safety Case 36-32 \$12.75  
Stainless Steel 25 pk. w/Safety Case 36-33 \$22.50 *Save \$13.50 on 6+*

**Safety Case**

Safe blade dispenser with space for worn out blades.



**Triumph Replacement Covers**

Newly formulated to be more resistant to breaking. Durable covers snap tightly onto the standard 6", Angled and Heavy Duty Scrapers. Make sure your people use these.

Gray	38-31	\$1.10
Black	38-30	\$1.10
Red	38-34	\$1.25
Track	38-32	\$0.80



**Triumph Scraper Holster**

- Right and left-handed
- Keeps scraper on your hip
- Safety strap keeps the handle in place
- Secure scraper cap in the rubber band when scraper is in use
- The open bottom releases water
- Holster a scraper with or without the cap

37-31 \$46.00



Shop online and save time at [racenstein.com](http://racenstein.com)

green prices mean savings for you **BUDGET \$TRETCHER**

**6-inch scrapers**

**Ettore ProPlus 6 in. Scraper**

6 in. flexible double-edged blade

- Ergonomic No-Slip Grip
- Fits Ettore poles for high-reach cleaning
- Includes yellow scraper cover

A) ProPlus 6 in. Scraper	35-14	\$10.60
ProPlus Stainless Blades (10)	36-13	\$11.25
ProPlus Carbon Blades (10)	36-14	\$18.50
B) Heavy Duty Scraper	35-13	\$16.25



**Unger ErgoTec® 6 in. Scrapers**

New comfortable, lightweight, ergonomic and durably designed 6 inch scraper that's great on glass and the perfect solution for everyday glass cleaning. Handle locks onto all Unger poles with Locking Cone.

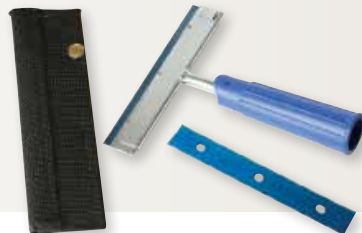
6 in. ErgoTec® Scraper 15	35-25	\$13.25
6 in. ErgoTec® Carbon Blades (25)	36-24	\$14.50
6 in. ErgoTec® Scraper 15 Cover	38-25	\$1.10
6 in. ErgoTec® Scraper 15 Track	38-26	\$1.10



**Sörbo 6 in. Scraper**

Designed with the same technique as the Sörbo 3x4 Squeegee. It adapts to uneven windows and will remove paint with the full width. It is also possible to offset the blade more to an L-shape so you can get behind bars or tight places. Complete with a new nylon holster that is made to fit all 5"(13cm) and 6"(15cm) scrapers on the market.

6 in. Scraper + Cover	35-61	\$26.55
Holster	37-61	\$16.60
Scraper + Holster	35-62	\$31.90
Blades (10)	36-65	\$16.10



**ScraperMate**

No more cut fingers! The ScraperMate provides quick, easy, safe scraper storage right at your hip. You don't have to fumble with scraper covers any longer; one-hand operation will save you time. This product accommodates flat and angled 6-inch scrapers.

37-71 \$20.25 *Save \$12.15 on 6+*



## 3-inch scrapers

### 3-inch Handy Scraper

This handy tool is designed to fit perfectly into corners, to clean putty out of window panes. Great for quick small jobs.

Handy 3" Scraper	35-35	\$5.00	Save \$3.00 on 6+
Handy 3" Angled Scraper	35-38	\$5.50	Save \$3.30 on 6+
Handy 3" Scraper Cover	38-33	\$0.70	
Handy 3" Double-Edge Blades (10)	36-35	\$5.05	
Handy 3" Double-Edge Blades (25)	36-36	\$11.25	
Handy 3" 70 mm Double-Edge Blades (10)	36-37	\$5.55	
Handy 3" 70 mm Double-Edge Blades (25)	36-38	\$12.00	



## 5-inch scrapers

### Champion 5-Inch Window Scraper

5 in. flexible double-edged blade

- Angled head
- Fits Ettore extension poles for high reach cleaning
- Includes red scraper cover

Champion 5" Scraper	35-12	\$12.25
Champion Carbon Blades (25)	36-44	\$19.75
Champion Stainless Blades (25)	36-45	\$23.75
Champion Replacement Cover	38-13	\$1.80
Champion Track	38-14	\$2.35



### Single Edge Scrapers and Blades

Handy and durable retracting handle holds a standard #12 single-edge blade. Solid Steel wrapped with durable rubber for great grip.

Handle with Rubber Grip #12	35-41	\$2.20	Save \$1.32 on 6+
Single Edge Blades #12, (100)	36-61	\$7.95	Save \$7.95 on 10+
Single Edge Blades #9, (10)	37-21	\$3.30	
Single Edge Blades #9, (100)	36-62	\$7.15	Save \$7.15 on 10+



### Ettore Pocket Scraper

NEW09

Durable pocket scraper with retractable blade. Uses standard single edge blades.

35-10	\$1.80
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### Magnetic Blade Holder

- Securely holds razor blade in place
- Safe, fast and easy without the need for caps

Magnetic Blade Holder	37-41	\$1.85	Save \$1.11 on 3+
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### Magnetic BladeLock

Made of high-impact ABS plastic, the Blade Lock utilizes the power of neo-dynamium magnets that have 100 lbs. of locking strength.

- Securely holds razor blade in place
- Safe, fast and easy without the need for caps

Magnetic BladeLock	49-10	\$6.70
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## 4-inch scrapers

### ScrapeMaster 4 in. Window Scraper

Unique blade holder allows for two different scraping angles.

- 4 in. flexible double-edged blade
- Fits Ettore extension poles for high reach cleaning
- Includes snap-on scraper cover

ScrapeMaster 4 in. Scraper	35-11	\$8.20
ScrapeMaster Blades (10-pack)	36-11	\$8.20
ScrapeMaster Replacement Cover	38-11	\$1.60
ScrapeMaster Track	38-12	\$1.15



### Heavy Duty 4 in. Window Scraper

Heavy duty scraper with double edge blades; one dull and one sharp. It's perfect for removing gum and tar off windows.

35-16	\$12.25
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### Maxi Scraper with 4 in. Reversible Blade

- Blunt on one side, sharp on the other
  - Press button to quickly reverse or change the blade
  - Lightweight, durable with a non-slip comfort grip
- For safe keeping store with blade blunt-side out.

Maxi Scraper 4 in.	35-24	\$5.45
Maxi Scraper Cover	38-24	\$1.00
ErgoTec® 4 in. Single-Edge Blades (10)	36-21	\$7.55



### ErgoTec® Scrapers

Reversible tempered 4" carbon steel blade has blunt edge for cement or stucco work and a razor edge for scraping paint and tape. Handle easily attaches to all Unger poles.

A) ErgoTec® Window Scraper	35-21	\$15.00
ErgoTec® 4 in. Single-Edge Blades (10)	36-21	\$7.55
ErgoTec® Scraper Black Cover	38-21	\$2.20
B) 4 in. Trim10 Scraper	35-22	\$7.30
Trim10 Double-Edge Blades (25)	36-22	\$10.40
C) 4 in. ErgoTec® Glass 10 Scraper	35-26	\$10.85
4 in. ErgoTec® Glass 10 Green Cover	38-22	\$0.85
4 in. ErgoTec® Glass 10 Scraper Track	38-23	\$0.85
D) 4 in. ProTrim 10 Scraper	35-27	\$7.50
4 in. ErgoTec® Carbon Blades (25)	36-23	\$10.10

See long handle scraper on page 68







**Glass Gleam 3**

**Glass Cleaner Super Concentrate**

- Superb wetting and rinsing with almost no bleeding
  - No phosphates, ammonia, or hazardous chemicals
  - Leaves no haze, even on polymer treated surfaces
  - Makes squeegees glide by reducing drag
  - Stays wetter longer and pleasant fragrance
  - High visibility orange color
  - Shines metal
  - Biodegradable
  - 1/10 ounce per gallon of water
- |           |        |          |                     |
|-----------|--------|----------|---------------------|
| Quart     | 84-530 | \$13.25  | Save \$19.08 on 12+ |
| Gallon    | 84-531 | \$39.95  | Save \$19.18 on 4+  |
| 5 Gallons | 84-535 | \$167.00 |                     |



**TITAN**  
LABORATORIES

**Glass Gleam 4**

**Glass Cleaner Super Concentrate**

- Stays wet longer on hot or windy days
  - Designed to work well with hard water
  - Blue color indicator when diluted
  - Biodegradable
  - 1/4 ounce per gallon of water
  - Superb wetting and rinsing for water-fed poles
  - No phosphates, ammonia, or hazardous chemicals
  - Leaves no haze, even on polymer treated surfaces
  - Works well in hot weather; does not foam up
- |           |        |          |                     |
|-----------|--------|----------|---------------------|
| Quart     | 84-540 | \$13.25  | Save \$19.08 on 12+ |
| Gallon    | 84-541 | \$34.50  | Save \$16.56 on 4+  |
| 5 Gallons | 84-545 | \$145.00 |                     |



**Squeeze Dispensing Bottles**

Refillable dispensing bottles can be carried in the bucket for convenience. Remove white cap to refill. Reduces waste, provides consistent dose.

- 1) Squeeze the bottle, liquid flows up filler tube.
- 2) The chamber begins to fill.
- 3) Fill to 1/2 oz. or 1 oz. measurements, open black top and pour into bucket.

- |                                     |        |        |
|-------------------------------------|--------|--------|
| 8 oz. Glass Gleam 3 Floater Bottle  | 84-511 | \$5.95 |
| 16 oz. Glass Gleam 4 Floater Bottle | 84-512 | \$6.95 |
| 8 oz. Floater Bottle, no label      | 84-532 | \$4.15 |
| 16 oz. Floater Bottle, no label     | 84-533 | \$5.70 |



**Ettore Squeegee Off Liquid Cleaning Soap**

A liquid concentrate that dissolves grease and makes your squeegee glide across glass

- Neutral PH
  - Contains no solvents, ammonia, or alkaline
  - Dissolves grease and grime
  - Works well on those hot days
  - Biodegradable formula
  - Add 2 tablespoons per gallon of water
- |        |        |        |                   |
|--------|--------|--------|-------------------|
| 32 oz. | 84-102 | \$6.50 | Save \$3.90 on 6+ |
|--------|--------|--------|-------------------|

**ETTORE**



**Ettore Squeegee Off Tablets**

Environmentally friendly, concentrated tablets with patented effervescent technology that will give you streak free results. One tablet makes up to 2 1/2 gallons of window cleaning solution. One hundred tablets will make you up to 250 gallons of window cleaning magic.

100 Tablets	84-103	\$23.50
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**NEW09**



**Unger's Pill**

A fast and easy to use formulation just for cleaning windows

- Non-toxic window cleaning solution
  - Effective for dissolving and removing smoke film, dirt and other accumulations from windows
  - An individually packaged tablet dissolves quickly
  - Pre-measured for use with 2 1/2 gallons of water
- |           |        |         |                    |
|-----------|--------|---------|--------------------|
| 10 Pills  | 84-202 | \$5.40  |                    |
| 100 Pills | 84-203 | \$40.50 | Save \$24.30 on 5+ |

**UNGER**



**Unger Professional Gel**

A great weapon in the war against grime

- Comes in a squeeze bottle for easy application
  - Apply directly to strip washer
  - A perfect blend of soap suds and cleaning power
  - Bio-degradable and kind to your hands
- |           |        |        |                    |
|-----------|--------|--------|--------------------|
| 1/2 Liter | 84-200 | \$9.55 | Save \$9.55 on 10+ |
|-----------|--------|--------|--------------------|



**3-Star Concentrate**

**Glass Cleaner Concentrate**

- Reduces squeegee drag
  - Almost no bleed back
  - Pleasant fragrance
  - Biodegradable and phosphate free
  - 1/4 ounce per gallon of water
- |        |        |         |                    |
|--------|--------|---------|--------------------|
| Gallon | 84-001 | \$29.50 | Save \$14.16 on 4+ |
|--------|--------|---------|--------------------|

**3 STAR**



**Winsol APC-100**

**Window Cleaning Concentrates**

- Quickly cuts grease, oil and fingerprints
  - Gives extra slip to prevent blade chatter
  - Stays wet longer
  - Leaves no streaking or alkaline haze
  - Versatile formula allows many extra uses
  - Concentrated: 1/3 of an oz. per gallon of water
- |           |        |          |                     |
|-----------|--------|----------|---------------------|
| Quart     | 84-600 | \$9.55   | Save \$13.75 on 12+ |
| Gallon    | 84-601 | \$25.50  | Save \$12.24 on 4+  |
| 5 Gallons | 84-605 | \$103.05 |                     |

**WINSOL**  
LABORATORIES



green prices mean savings for you **BUDGET STRETCHER**

**Sörbo Squeegee Glide**

Friction Reducer

- A friction reducer, not a cleaner
- Increases speed
- Reduces wear of the squeegee rubber

Pint 84-400 \$11.50 *Save \$16.56 on 12+*



**Super Slip**

Window Cleaning Additive

- Lubricates your blade increasing rubber life without leaving a residue
- Makes your blade slide like magic and reduces work related fatigue
- Reduces scratching when used with a razor blade.
- Slows evaporation so you have more time to work.
- Lets you use less soap - fewer streaks
- Mixes safely & easily with all types of detergents & soaps

Quart 84-610 \$10.50 *Save \$15.12 on 12+*



**Fields Glass Cleaner**

A high performance window cleaning concentrate for all types of window cleaning. Squeegee glides more easily as a result of less drag, and leaves no haze or streaks. It's an excellent cleaner/degreaser concentrate without the use of petroleum solvents.

Quart 84-831 \$10.50

Gallon 84-834 \$41.35 *Save \$8.27 on 4+*

5-Gallon 84-835 \$192.80

NEW09



**Unger Easy Glide Glass Cleaner**

Offers good glass cleaning results, while the squeegee blade slides effortlessly across the glass

- Low sudsing formula
- Biodegradable and skin friendly
- Highly concentrated (100:1 mix ratio)
- Each bottle makes over 25 gallons of washing solution. Flip top cap makes dispensing easy.

Liter 84-210 \$9.65 *Save \$11.58 on 12+*



**Glass Cleaner**

386 Nanotech Glass/Ceramic/Stainless Steel Cleaner is a specially formulated bio-degradable cleaner made specifically for our sealants. Our cleaner consists of non-scratching ingredients allowing dirt, water etching, salts, oil and other debris to be removed safely and easily. This tough action cleaner creates the optimal surface for 386 Sealants to molecularly bind.

32 oz. 82-221 \$25.00 *Save \$10.00 on 4+*

NEW09



**Nevr Dull Glass Cleaner**

This all-natural, water-based formula can be used on a variety of surfaces, including glass, plastics, rubber, vinyl and most metals. It's safe to use around people and animals. It's biodegradable.

- Streak-free shine with no smudging
- No harsh chemical fumes or vapor
- Hypoallergenic, non-toxic, non-caustic
- Phosphate-free, no glycol ether, ozone safe, phthalate-free

Gallon 84-820 \$54.95 *Save 21.98 on 4+*

5 Gallons 84-821 \$255.00

NEW09



**Ammonia**

Austin's Ammonia is excellent and economical for all your surface cleaning needs. Try it for a variety of tasks. For windows, mirrors, painted walls, wood work, kitchen countertops, sinks and bathrooms, add 1/2 cup of ammonia to 1 gallon of warm water. Wipe with a sponge or cloth.

Gallon 89-805 \$5.60 *Save \$1.34 on 4+*



**Chandelier Cleaner**

This exclusive formula allows you to simply spray it on then watch the dirt and dust drip off. It dries to a brilliant shine and leaves no residue or streaking.

32 oz. 89-81 \$8.40 *Save \$12.10 on 12+*

Gallon 89-82 \$23.50 *Save \$11.28 on 4+*



**Sörbo Window Cleaning Soap**

This new professional soap is designed to do more than just clean glass. It is formulated to keep glass cleaner longer. Developed for use with cold or warm water. Add one teaspoon of powder to two gallons of water.

84-402 \$8.25 *Save \$7.92 on 12+*

NEW09



**Vista Clear**

An aerosol glass cleaner with a special combination of ingredients, resulting in a powerful, professional-grade glass cleaner that is second to none. Cleans windows, mirrors, windshields and all glass, plastic (acrylics and polycarbonates) and Plexi-Glass surfaces. Contains no ammonia, silicone, or alcohol. VOC compliant. Safe to use on window film, TV screens, computer monitors, metal cabinets, chrome and fixtures. This glass cleaner comes in a 20 ounce can and has a spray anyway valve.

84-810 \$5.95

NEW09





### Bio-Clean Water Stain Remover

For easy removal of difficult stains

- Easily removes hard water stains
- Effective against cement leaching, sprinkler stains and runoff
- No harsh chemicals or unpleasant odors
- Fast, safe and effective
- Easy to apply paste

*Instructions: Simply pour a little onto a damp towel or nylon scrub pad and work it into the stain in a circular motion. Almost immediately, you'll feel how quickly Bio-Clean lifts the stain off the glass surface. Rinse and dry the window with regular window cleaning tools.*

52 oz. 85-700 \$31.00 **Save \$55.80 on 15+**



### Sörbo Hard Water Stain Remover

Developed especially for cleaning and removing stains from glass and tile surfaces.

- Quickly takes off hard water stains, building run-off and sprinkler stains from windows and other glass surfaces like shower doors.

*Instructions: Just mix the powder with water to make a paste and apply it to the surface using a soft wet towel or white nylon scrub pad. Sörbo Stain Remover will also remove silicone glue and is safe to use on anodized metal frames.*

5 oz. 85-400 \$10.50 **Save \$12.60 on 12+**



green prices mean savings for you



### Miracle Scrub® (formerly known as Sani Scrub)

A great way to remove hardwater stains on glass, porcelain, mirrors and other hard surfaces.

- Does not scratch
- Removes hardwater stains easily
- Bio-degradable and environmentally friendly
- Great preparation for Sani Shield and other glass protectants

16 oz. 85-800 \$5.35 **Save \$7.70 on 12+**



### Unger Rub Out

- Removes water spots, rust, mineral deposits, lime scale and soap scum without aggressive scrubbing.
- Scrub stains without harming surface
- Superior Strength with a pleasant scent

*Instructions: Wet surface. Squeeze a small amount onto a damp cloth, sponge or white nylon scrub pad and gently rub area and rinse thoroughly. Dry with squeegee or cloth. Repeat as needed.*

Pint 85-200 \$7.75 **Save \$9.30 on 12+**



### A1 Hardwater Stain Remover

- Removes silicas, cement leach, acid rain and mineral deposits from glass and other exterior surfaces an interior surfaces like tile and shower doors.
- A nontoxic water based biodegradable SOFT CREAM. Contains no acids or abrasives.
- Cleans and polishes aluminum, fiberglass and painted wooden frames and mouldings.
- Easy to apply with a white scrub pad, felt pad or fine steel wool.
- Apply by hand or with an oscillating buffer (8,000-11,000 rpm)
- Tested and approved and now in use by some of our biggest and best stain removal customers
- Covers 400 - 500 sq. ft.

Pint 85-510 \$14.25 **Save \$20.52 on 12+**



### Mineral Deposit Remover

Mineral Deposit Remover (MDR) Formula B easily removes hardwater stains and oxidation.

- Contains an engineered abrasive that won't scratch
- Bio-degradable
- Contains a relatively safe combination of food grade and mineral acids to meet the demanding requirements of professionals for glass stain removal
- Covers 250 - 300 sq. ft.

Pint 85-520 \$11.25 **Save \$16.20 on 12+**





**Restoro**

Glass and Metal Cleaner and Polish

- Multi-purpose polish, can be used on most metal surfaces
- An ideal glass restorer
- Cleans Formica, tile, and marble
- Environmentally safe, non-toxic and odorless
- A non-flammable microcrystalline blend of naturally found inorganic materials, including Soft Silica, Silicone Dioxide, and Quartz
- Polishes metals, removes oxidation and films from metal surfaces
- Will remove some weather stains from glass, and building run-off
- Leaves no film on glass

*Instructions: Apply onto a clean damp cloth and rub onto surface. Buff off with a towel while wet or dry. For mirrors or windows buff off while wet.*

22 oz. 89-90 \$19.00 **Save \$11.40 on 6+**



**Ettore Water Spot Remover**

Cuts through hard water deposits and soap scum. Ideal for windows, glass shower doors, mirrors, porcelain, chrome. Ready to use; no mixing. Abrasive-free.

10 oz. 85-101 \$6.15



**Nevr-Dull**

- Specially treated cotton wadding rubbed over surfaces to be cleaned and polished
- Cleaner and polisher of glass, brass, aluminum, nickel, pewter, silver, copper, steel, chromium, zinc, gold
- Removes tarnish and dirt.

32 oz. 89-10 \$25.25 **Save \$36.36 on 12+**



**A-MAZ Water Stain Remover**

A deep cleaner that penetrates the surface material, removing all excess unwanted stain, restoring the glass, metal, or porcelain back to the original quality. It is able to deep clean with great results, to make surfaces look brand new again. You'll watch oxidation, black streak, bluing, calcium, tarnish, salt spray and water stains simply fade away. It is safe to use in non-ventilated areas and no mask or gloves are required. It contains no bleaches, chlorides or gritty pumice that can cause damage to delicate surfaces.

14 oz. 85-810 \$11.00 **Save \$13.20 on 12+**  
 Gallon 85-811 \$42.50 **Save \$17.00 on 4+**



NEW09

**Bring It On**

A solution to those frustrating stubborn hard water spots, stains, rust and mineral deposits. Oxygen bleach tackles the outer layer of the minerals, as you scrub on the surface the mild abrasive plus the acid base, very low PH formula, attacks the rest of the minerals.

- Fast: apply with damp sponge or non-abrasive pad and let sit for 10 minutes.
- Simple: wipe on, let dry, wipe off. A buffer is helpful for larger areas.
- Effective: No need for exhaustive scrubbing. No more aches and pains the day after cleaning.
- Safe: You'll breathe easily, because there are NO dangerous fumes, and no gloves or goggles are required
- Ready-to-use: No messy or inconsistent mixing of powders or chemicals to waste your time.

32 oz. 85-815 \$12.00 **Save \$7.20 on 6+**



NEW09

**Winsol Poly Clean**

Plexiglass Cleaner and Protectant

A non-abrasive cleaner for the removal of tar, paint, permanent marker, grease and scuff marks from Lexan®, Plexiglass® and other polycarbonate surfaces. These sturdy thermoplastics have always been difficult to clean & maintain. Now you can have a safe mixture of water soluble solvents that cleans and protects. Polyclean removes stains and polishes the surface without scratching or dulling the Lexan® or Plexiglass®.

Gallon 89-621 \$57.00 **Save \$27.36 on 4+**



**Winsol Alumina Wash**

Aluminum Cleaner

A non corrosive cleaner designed for regular maintenance to remove oily dirt, greasy smudges and pollution residues as well as any residues left on aluminum by previous cleaning products. Alumina Wash will help prevent smudges from appearing. It has aluminum blushing inhibitors to help prevent tarnishing caused by cleaning. Special residue free emulsifiers clean oily residues from the metal surface leaving the metal bright and shiny as new. Clean, residue free surfaces do not attract additional soiling. Routine maintenance may be reduced.

Gallon 89-611 \$28.75 **Save \$13.80 on 4+**  
 5 Gallon 89-615 \$114.25



**Winsol Screen Cleaner and Sealer**

Cleans, Seals and Protects Vinyl, Fiberglass and Aluminum Window and Door Screens

- Fast and Easy to Use
- For use on screens and window frames
- Provides a durable barrier for added protection
- Helps reduce aluminum blush and corrosion

Screen Cleaner and Sealer may be applied to brand new screens prior to installation or to restore the appearance and durability of existing soiled screens and frames. Regular treatment will protect the fabric and frame against bird droppings, acid rain, general pollutants and fading caused by UV Rays from the sun.

Gallon 89-631 \$29.95 **Save \$14.38 on 4+**  
 5 Gallon 89-635 \$129.75



**Ettore Clean Screens**

Moist towelettes designed to clean window screens and tracks without screen removal. Also good for window blinds and ceiling fans. Lint free. Convenient resealable pouch.

25 pk. 89-12 \$4.60 **Save \$5.52 on 12+**



NEW09



## Oil-Flo

### Safety Solvent Cleaner

- Remove stickers, adhesives, tapes, caulking, roof tar, solar film, crayon, graffiti, magic marker, sign and nameplate residue
- Effective solvent cleaner for stains, marks and residues on glass and other hard surfaces.
- Dissolve the stains and use normal window washing methods to clean glass.
- Excellent for construction clean-up
- A Neutral pH, not acid nor caustic water-soluble liquid
- Works well on Plexiglass and some other thermoplastic surfaces but may damage Lexan.
- **Caution:** do not allow Oil-Flo to soak into window frames as it may dissolve the caulk or gaskets over time and avoid using on painted surfaces.
- Apply by wiping some on a rag or by using a solvent resistant trigger spray bottle.
- Use steel wool, a white scrub pad or scraper to speed removal.
- Wash window after using Oil-Flo.
- One pint will cover 100 to 400 square feet or more of glass



Pint	89-510	\$17.75	Save \$25.56 on 12+
Gallon	89-511	\$50.00	Save \$24.00 on 4+
5 Gallons	89-515	\$199.00	

## Titan Green

### Cleaner and degreaser

- Super strength concentrate with exceptional cleaning and degreasing ability.
- Biodegradable
- Different cleaning strength by adding water
- Water based; replacing cleaners containing solvents, caustics or acids
- No chlorinated solvents, phosphates, CFCs, alcohol, ammonia, acids or abrasives
- Apply with sprayer, brush, rag, immersion soak, power scrubber, pressure washer or an ultrasonic cleaner.
- Cleans and deodorizes. Mild fresh fragrance



Gallon	89-521	\$27.50	Save \$13.20 on 4+
5 Gallon	89-525	\$124.25	

## Dicone NC9



A specially formulated silicone “digestant”, for removing silicone-based sealants and adhesives, cured silicone elastomers and silicone water repellent overspray. Dicone NC9 utilizes new solvent technology to dissolve cured silicone resins and polymers with a non-flammable, non-chlorinated and non-aromatic cleaning solution.

- Quickly removes cured silicone resins and polymers
- Low toxicity – contains no chlorinated or aromatic solvents
- Suitable for use on most metal, painted surfaces, glass, and anodized aluminum

Gallon	82-111	\$46.45	Save \$18.58 on 4+
5 Gallon	82-115	\$204.00	



## BioWash

Growth of bacteria, fungi, algae, lichens, and mosses disfigures and degrades many types of construction materials. BioWash is a highly efficient alternative to aggressive cleaners traditionally used on interior and exterior masonry, stone and tile surfaces.

- Safe for landscape plantings and grass
- Safe for interior use in occupied buildings
- Effective on all types of stone, concrete and brick masonry
- Non-fuming, low-odor formulation

Gallon	82-121	\$29.60	Save \$4.74 on 4+
5 Gallon	82-125	\$124.45	



Before



During



After

## 3 Star Purple Magic

A highly concentrated solution that safely cleans all types of metals.

- Mixes with water at various ratios to create an effective cleaner for all types of metals
- Slowly dissolves organic soils and oils
- The longer it sits, the better it works
- Pressure washer may quicken the cleaning process on porous surfaces like stone, clean and restore architectural aluminum including anodized and coated aluminum such as Alucobond® and Kynar 500®.



Gallon	89-21	\$47.25	Save \$18.90 on 4+
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TYPE OF SURFACE	RECOMMENDED MIXING RATIO
Painted Aluminum such as Alucobond, Kynar 500 and other pre-finished metals (for heavily soiled surfaces)	30 parts water : 1 part Purple Magic
Stainless Steel, uncoated satin or polished finish	15 parts water : 1 part Purple Magic
Non Porous Stone (ceramic, fired brick, granite, marble)	30 parts water : 1 part Purple Magic
Porous Stone (lime stone, pre cast, dryvit, stucco)	15 parts water : 1 part Purple Magic
Fabric Awnings (safe on vinyl coated as well as non-plasticized such as canvas and nylon)	5 parts water : 1 part Purple Magic

green prices mean savings for you **BUCKET \$TRETCHER**

**NEW09**

**Krud Kutter**

This biodegradable professional strength formula removes adhesive, caulk, foam, mastic, silicone, tar, and more from most surfaces.

16 oz. 89-815 \$12.00



**Simple Green**

One of the most versatile all-purpose cleaners you can buy! It's non-toxic and biodegradable, without harmful bleach. Because it is a concentrate, you can custom dilute Simple Green to clean just about anything dirty. It replaces most cleaners, detergents, and degreasers.

89-806 \$8.15



**Dirtex**

The No. 1 rated extra strength ammoniated spray cleaner for cleaning many surfaces around the home or office. Excellent for glass, chrome, porcelain, ceramic tile, appliance enamels, etc. Removes dirt, grease and grime with just a wipe, and also removes latex paint overspray (not recommended for shellac or lacquer). Spray Dirtex® has a pleasant odor and contains no fluorocarbons.

89-810 \$8.40



**Sprayer-On-A-Belt Trigger Sprayer**

- Sprayer hooks onto a belt (belt not included)
- Flexible hose allows trigger to extend 3 feet

1 qt. 515-101 \$22.45



**Trigger Sprayer**

- Holds 24 oz.
- Use for all your glass cleaning needs

84-510 \$3.60



**Nevr-Dull Stain Remover**

- Works on hard surfaces, carpet and any fabric
- Non-caustic non-toxic, hypoallergenic and environmentally friendly
- No harsh chemical fumes or vapor
- Removes food stains, mold mildew, blood and much more
- Ideal for cleaning hard-to-reach spots like tile, grout and corners
- Safe to use around people and animals
- Renewable, plant-derived formulation, phosphate-free, no glycol ether, ozone safe, phthalate-free

Gallon 89-841 \$57.15 *Save 22.86 on 4+*  
5 Gallons 89-842 \$270.00



**NEW09**

**Nevr-Dull Degreaser**

- Removes greast and oil naturally and leaves no harmful residue
- No chlorinated solvents or alkaline detergents
- Cuts through grease and grime in seconds
- Emulsifies oil, grease & hydrocarbon-based liquids
- Ideal for use on steam cleaning engines and machinery, or for general cleanup
- Safe to use around people and animals
- Ideal for use on all surfaces
- No harsh chemical fumes or vapor
- Renewable, plant-derived formulation, phosphate-free
- Cleans dry erase boards free of "ghosts"

Gallon 89-844 \$57.15 *Save 22.86 on 4+*  
5 Gallons 89-845 \$270.00



**NEW09**

**Fields Scale Remover**

A window cleaning solution to loosen and remove scale, deposits, and cement from exterior windows. Makes removing concrete, plaster, and mortar from glass much easier. Dissolves efflorescence and mineral deposits from stucco rundown on glass. Removes calcium deposits and rust from tubs, shower tile, and glass.

Quart 89-851 \$9.70  
Gallon 89-854 \$38.80 *Save \$7.96 on 4+*  
5 Gallons 89-855 \$178.50 *Save \$35.70 on 4+*



**NEW09**



We accept all major credit cards



100+ educational, informative and useful videos already up, and more being added all the time. Learn how tools work and go together. Learn time-saving techniques and much more. Visit regularly to see what's new: [www.jracenstein.com/videos](http://www.jracenstein.com/videos)





green prices mean savings for you



### Crystal Clear 550

For glass that won't come clean with routine washing or extra elbow grease, or for glass with a haze or etching caused by hard water, pollutants or runoff from cement.

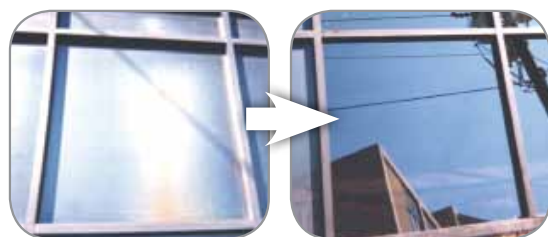
- Designed to remove stage 1 alkaline buildup on glass
- Eliminates alkaline residues, exhaust particles, chemical and mineral deposits
- Eliminate water spots and the runoff from brick, concrete and mortar
- Excellent for new building cleanups
- s the surface clarity of glass by reducing the affects of minute pitting and hard water buildup
- Applied with a natural sponge, strip washer, or cloth
- One gallon can restore up to 4,000 square feet of glass



**CAUTION!** Always make a test application in an inconspicuous area of the glass to determine effectiveness and suitability for each specific job. Some glass surfaces are softer, or of a different chemical composition, and could react adversely with this chemical. **CAUTION!** Eye and hand protection must be used when applying Crystal Clear 550. Read entire label carefully before using.

*Restoring glass with CC550 is not just a part of cleaning windows, it's a very profitable add-on business. Building owners will pay thousands of dollars to replace damaged glass; you can save them big money with CC550. Charge \$1.00 per square foot to restore and you'll do very well.*

Quart	86-602	\$12.00	Save \$5.76 on 4+
Gallon	86-601	\$42.00	Save \$20.16 on 4+
5 Gallons	86-605	\$180.75	



### SafeRestore

SafeRestore is a breakthrough detergent that provides remarkable versatility, cleaning power and safety all in one product. It is capable of removing the deepest biological and pollution stains, and mineral and metal oxide stains from a wide variety of surfaces. It is an effective coating remover and safely cleans glass and anodized aluminum when used as directed. SafeRestore won't damage or change the color of any of the substrates it is used on. SafeRestore will save hours of cleaning time versus the traditional bucket and brush method.



Gallon	86-620	\$33.95	Save \$13.58 on 4+
5 Gallon	86-621	\$146.40	

### X-19 Glass Cleaner

X-19 Glass Cleaner & Restorer is recommended for glass surfaces that will not come clean with routine washing. X-19 is an acidic blend of wetting agents and detergents specially formulated to restore glass surfaces. Additionally, it removes hard water marks, stains caused by run-off from unsealed masonry, airborne pollution and acid rain haze that causes oxidation to glass.



Gallon	86-503	\$29.35	Save \$11.74 on 4+
5 Gallon Pail	86-605	\$150.75	

### Splash Guard Goggles

Protect your eyes from accidental splashes of harmful chemicals. Splash guard goggles are specially vented so that there are no front openings. Comfortable fit over eyeglasses. Adjustable headband.



Each	84-10	\$5.20	Save \$9.36 on 12+
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### Acid-Resistant Rubber Glove

- Embossed grip prevents greasy buildup and ensures nonslip gripping capabilities
- Flock lining for added comfort & moisture absorption
- Single neoprene layer over rubber
- Excellent flexibility and tactile strength
- Ideal to use with CC550 or other acids.
- 12" in length



Pair	56-210	\$4.15	Save \$4.98 on 12+
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### Chemical-Resistant Rubber Glove

- Neoprene over latex
- Flock lining for comfort and moisture absorption
- Offers superior abrasion, puncture, and tear resistance
- Embossed grip prevents greasy buildup and ensures nonslip gripping capabilities
- Two Tone construction gives visual indicator of glove wear-through
- 13" in length



S	56-231	\$3.15
M	56-232	\$3.15
L	56-233	\$3.15
XL	56-234	\$3.15

### Natural Rubber Glove

- Heavy duty jobs and handling of alcohol, acids and caustics.
- Cotton Knit Lining adds durability, insulation and comfort
- Non-slip etched grip
- 13" in length



M	56-221	\$6.30
L	56-222	\$6.30
XL	56-223	\$6.60

**Ettore Glass Guardian**

Protects Glass from water and the affects of hard water stains and Stage I and II corrosion. Will bond to glass, ceramic and porcelain surfaces by forming a virtually invisible shield.

- Makes glass almost self cleaning
- Protects against optical distortion, hazing, and clouding
- Will not oxidize, yellow or haze glass
- Lasts up to 2 years or more
- One quart covers 1,250 square feet

*Instructions: Mix the activator with the GlassGuardian in bottle and let stand for five hours. Wash window with GlassGuardian Prep. Apply GlassGuardian Protectant with a sponge or washer. Cover evenly, then squeegee or air dry.*

Pint 87-10 \$67.25 **Save \$40.35 on 6+**



**Sani-Shield**

This ultra thin polymer coating makes glass, porcelain, ceramic and other surfaces remarkably water, soil and stain repellent.

- Hard surface liquid coating
- Bonds to microscopic pores and forms an optically clear protective shield
- Protects glass from mineral run off and hard water deposits
- Repels waterborne dirt and pollutants from adhering to glass
- Works on glass, plastics, polished metals and natural marble.
- Apply to a soft padded cloth and wipe it onto a clean dry surface.
- Covers approximately 10,000 square feet

16 oz. 87-80 \$8.75 **Save \$12.60 on 12+**



**3-Star Barrier**

Barrier is an easy-to-mix, easy-to-apply surface protectant. Barrier forms a bond to glass, ceramic, porcelain and other non-porous glass-like surfaces, to form an invisible molecular barrier that protects the surface against incidental scratching, while repelling liquids and dirt, making regular cleaning of the surfaces much easier.

- One bottle makes 1.1 gallons of protectant
- Protection lasts 6 - 12 months
- Will not yellow, cloud or haze
- Protects against hardwater stains, masonry run-off, atmospheric pollution
- Makes routine maintenance simpler

*Instructions: Clean glass thoroughly before using Barrier. Add one 6.4 ounce bottle of Barrier to one gallon of clean water. Mix by stirring. The diluted solution can be applied by a strip washer wand, brush, roller, sprayer, etc. The applied solution may be squeegeed off, or forced-air dried. Barrier will instantly provide the water-repellent, scratch-resistant coating.*

6.4 oz. 87-00 \$49.25 **Save \$35.46 on 6+**



**Nanotech Glass Sealant**

386 Nanotech Glass and Ceramic Sealant eliminates the long standing problems of hard water spots, soap and lime buildup. This sealant is excellent for commercial and residential use on shower glass, interior and exterior glass, glass tiles, ceramic tiles, and can be used on shiny porcelain tiles. Covers 700 - 1,000 square feet.

- Creates a perfect seal every time
- Creates an easy to clean, stain resistant surface
- Helps prevent mold, mildew & bacteria growth
- Contains no silicone, acrylics, PTFE's
- UV stable and will not peel or discolor
- Reduces the amount of cleaning time and effort
- Eliminates the need for dangerous chemical cleaners, removing the cost of these cleaners from the budget
- Seals for up to 3 years

32 oz. 82-220 \$175.00 **Save \$70.00 on 4+**

NEW09



**Simix Protetor Plus**

Polishes and Protects Glass, Mirrors, Shower Doors, Tile, Sinks, Stainless Steel, Aluminum; Painted & Anodized, Fiberglass, Plastic, and so much more...

- Mineral deposits will not bond to treated surface
- Water-based system cannot be destroyed by the sun's UV rays
- Will not leave streaks or smears
- Saves time and effort
- 32 oz. polishes and protects up to 1,000 sq. ft.
- Easy application

32 oz. 87-85 \$20.00 **Save \$12.00 on 6+**  
Gallon 87-86 \$59.00 **Save \$28.32 on 6+**

NEW09



**NanoBrite Glass Cleaner & Sealer**

386 NanoBrite is designed to clean and seal high shine surfaces such as glass, mirrors, brass and fixtures. This easy to use one step clean and seal product seals for up to 6 months and slows the adhesion of dirt, helps to prevent mold, mildew, and bacteria growth, and leaves a non-streaky, brilliant finish. Once sealed, clean with only a damp cloth. Perfect for use in public and residential restrooms, hotel and bathroom mirrors, chrome in and around the shower, faucets, pictures, glass tables, lighting fixtures and brass handrails.

8.4 oz. 82-215 \$25.00 **Save \$10.00 on 4+**

NEW09



**Pro-Tect Shield**

Provides a protective coating once your glass or surface has been thoroughly cleaned. It fills pores and forms a high gloss shield with a silicone finish so water sheets off the surface and minerals won't build up. Can be used on windows, shower doors, tile surfaces, chrome fixtures, stainless steel, sinks. Covers approx. 200 sq. ft.

16 oz. 87-89 \$7.95 **Save \$4.77 on 6+**

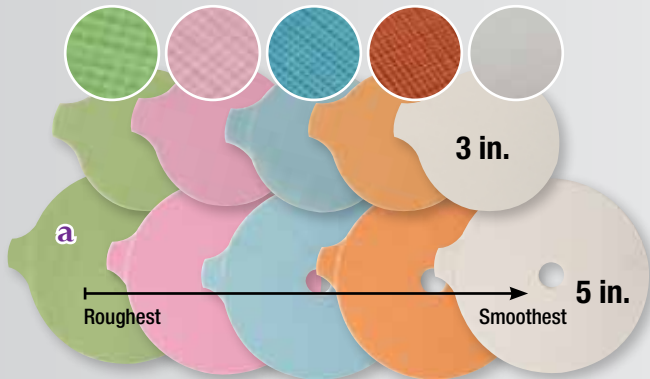
NEW09





Now you can add a new profit center to your window cleaning business. You have access to numerous properties where scratches exist on the glass, and you have a relationship with the property owners or managers. They like your work and if you could save them big dollars by removing scratches from their glass, rather than their having the major expense involved in replacing glass, they'll love you.

Scratch removal is a two to five-step process, and one that requires you to develop a skill, as you developed a skill when you learned window cleaning. Learn and earn. Results may vary depending upon the type of glass, the severity of the scratches and your experience with this type of equipment. Keep the pad wet when working the glass.



### A) 3M Trizact™ Polishing Discs

Diameter	Color	Grade	Part #	Price ea.	
				Price	Save on 25+
3 inches	Green	A35	76-131	\$1.85	\$4.63
3 inches	Pink	A20	76-130	\$1.85	\$4.63
3 inches	Blue	A10	76-132	\$1.85	\$4.63
3 inches	Orange	A5	76-133	\$1.75	\$4.38
3 inches	White	Cerium	76-134	\$2.70	\$6.75
5 inches	Green	A35	76-151	\$2.85	\$7.13
5 inches	Pink	A20	76-150	\$2.85	\$7.13
5 inches	Blue	A10	76-152	\$2.85	\$7.13
5 inches	Orange	A5	76-153	\$2.85	\$7.13
5 inches	White	Cerium	76-154	\$5.40	\$13.50

### B) Steel Shank

1/4" w/5/8" Thread 76-11 \$39.00



### C) Rubber Pads

3 in. Pad 76-135 \$28.60  
 3 in. Pad w/Velcro Backing 76-138 \$28.60  
 3" Felt Polishing Pad 76-137 \$21.95 *Save \$21.95 on 10+*  
 5 in. Pad 76-155 \$33.70  
 5 in. Felt Polishing Pad 76-157 \$32.15  
 5 in. Pad w/Velcro Backing 76-158 \$33.70



### Scratch Magic Starter Kit

The Scratch Magic Kit utilizes a micro replication process allowing for glass scratching damage to be removed in a more efficient and effective way. Designed for a scratch less than 6 - 8 inches in length and less than .003 of an inch in depth (normally a scratch that you cannot catch your nail in). This product comes with everything you need except a 110v power drill (RPM min. 1200). Remove those unsightly scratches and restore your glass to a new finish!



76-21 \$39.00

**Glass Polishing & Stain Removal** is a little easier to accomplish on the first time out. Most often, glass needs to be polished when there are hardwater stains, runoff or other types of "surface" damage on the glass that stain removal chemicals won't remove. Most of the fine hairline scratches you often see on glass can easily be removed by glass polishing.

Supplies needed for glass polishing and stain removal are your own Power Drill, our 3 or 5-inch felt polishing pad, 3 or 5-inch pad with velcro backing and some of our glass polishing compound, Cerium Oxide. Simply put the head into your drill, then mix some water with the powdered Cerium Oxide to make a paste and dip a polishing head into the paste and apply the compound to the stain or hairline scratches on the glass. This buffing action is what removes the stains and scratches. You'll want a spray bottle with plenty of water to keep spraying on the glass to keep it cool.

1 lb. Cerium Oxide 76-10 \$11.00 *Save \$11.00 on 10+*  
 10 lb. Cerium Oxide 76-12 \$99.95



### Scratch Hog System

Offering the broadest repair capabilities in the glass restoration business, the Scratch Hog removes everything from heavy scratches, up to .015 of an inch, to the lightest surface damage. The effectiveness of this system is unmatched.



76-22 \$1,695.00

### ABR Glass De-Etcher

#### Introducing a breakthrough in Problem Solving.

Now a new technology allows you to remedy hydrofluoric acid burns that have caused etching in glass. Save yourself from costly insurance claims and keep the property manager/owner happy. Applies as a rubbing compound with a power buffer. One 16 ounce can will cover 500-600 square feet. Save your customer money by avoiding big glass replacement claims.

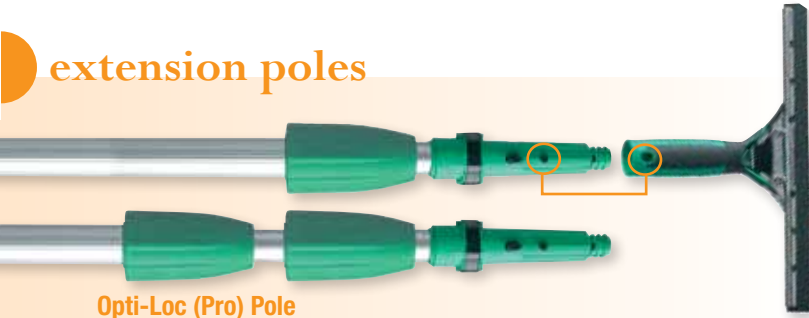


16 oz. 76-20 \$86.25  
 Gallon 76-23 \$519.00

green prices mean savings for you **BUDGET \$TRETCHER**



extension poles



**Opti-Loc (Pro) Pole**

The Opti-Loc is a high quality extension pole. Solid locking collars and strong lightweight extruded sections make it easy to use. Choose from five models up to 18 feet in length.

Unger Opti-Loc (Pro)				
Ext. Length	Closed Length	No. of Sections	Part Number	Price
4 ft.	29 in.	2	60-201	\$24.00
8 ft.	51 in.	2	60-203	\$36.25
10 ft.	64 in.	2	60-210	\$37.00
12 ft.	55 in.	3	60-205	\$51.25
14 ft.	65 in.	3	60-206	\$58.00
18 ft.	78 in.	3	60-207	\$66.85

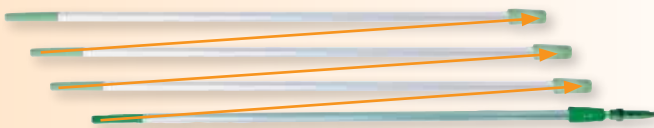
18 ft. poles are oversized, extra UPS charges will be assessed.



**Tele-Plus (Add-An-Arm) Pole**

This unique extension pole system actually comes apart (except for the top two sections). Each of the six-foot sections can be removed from the rest. So, if you only need an 18 ft. pole, remove the other two sections and work with a lighter pole or extend up to 30 feet. Buy the complete set or add parts as you need.

Unger Tele-Plus (Add-An-Arm)				
Ext. Length	Closed Length	No. of Sections	Part Number	Price
Sec's 1 & 2	12 ft.	2	60-211	\$43.75
Section 3	6 ft.	1	60-212	\$28.50
Section 4	6 ft.	1	60-213	\$34.95
Section 5	6 ft.	1	60-214	\$40.55
All 5 Sections (30 ft.)		5	60-216	\$115.05



**Henry'sHandiHandle**

24" lightweight extension pole with snap-in nylon adapter & ergonomic grip. 60-200 \$12.00



**Hi-FloKit**

For cleaning walls, boats, minivans, etc. Comes complete with 30' hose, brush, scrub tabs and zinc swivel adapter for hose. Attaches easily to all Unger poles (not included).

HiFlo Kit, 30 ft.	65-230	\$124.45
HiFlo Kit Dispenser	66-201	\$71.00
HiFlo Replacement Brush	66-230	\$21.50



PAGE 24 / UngerWindow Cleaning Kit



Unger Squeegees  
See page 18



Unger Washers  
See page 19



Unger Soaps  
See page 36

accessories



**ErgoTec® Locking Cone**

This clever device actually locks the ErgoTec® handles on the pole so they can't come off. Slide the handle on and the lock pops up through the hole in the handle. Press the release to remove. Fits on the Tele-Plus (Add-An-Arm) and the Opti-Loc Unger Pro. Included with listed poles. Note: This is not a collar. 64-217 \$4.80



**FIXI-Clamp**

Made of fiberglass-reinforced nylon. Innovative design quickly & easily grips sponges, rags, cloths, chamois by simply tightening the locking collar. Attaches easily to all Unger poles with a press fit. 63-203 \$27.05



**Universal Adaptor**

Holds and adjusts angle of paint brushes/rollers, hoses and other tools. Features spring action to enable easy and quick tool change. 63-207 \$14.75



**StickyFingers Bulb Changer**

Quickly & safely change bulbs. Adjusts onto various shaped bulbs. 63-201 \$16.75



**FloodSucker Bulb Changer**

Suction cups hold securely to flood lights & bulbs 300 watts & larger. 63-204 \$19.00



**Adjustable Angle Elbow**

Lightweight and durable. Adjust tools to clean at any angle up to 300°. Squeegees, washers and other tools can be quickly attached. Attaches easily to all Unger poles.  
Nylon 63-202 \$13.75  
Zinc 63-208 \$16.00



**Lambswool Duster**

Cleans and dusts. Attach to any Unger pole w/ a screw fit for extended height. 63-205 \$13.75



replacement parts

**Opti-Loc Replacement Collars**

Small Collar	64-227	\$6.20
Large Collar	64-228	\$7.75
Small Insert	64-225	\$4.10
Large Insert	64-226	\$4.85
Small Complete	64-214	\$10.95
Large Complete	64-215	\$14.50



**Tele-Plus Replacement Collars**

Collar #1 (sec. 1-2)	64-208	\$7.55
Collar #2	64-204	\$8.15
Collar #3	64-206	\$8.70
Collar #4	64-207	\$9.35
Single Stone (sec. 3-5)	64-205	\$3.20
Double Stone (sec. 1-2)	64-209	\$3.40



**Inside Smooth Sections**

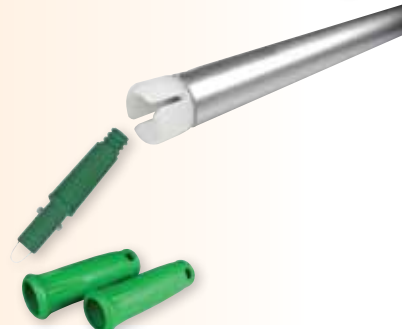
4 ft.	64-201	\$13.50
6 ft.	64-202	\$18.50

**Original Nylon Pole Tip**

Pole Tip	64-216	\$4.20
Springs	64-210	\$2.00

**Grips**

2 Section	64-213	\$3.65
3 Section	64-203	\$4.05



## extension poles



### REA-C-H Poles

- Heavy duty construction
- Anodized aluminum prevents corrosion
- Fluted for strength & better gripping when wet
- 40% thicker than other poles.
- Fluting resists twisting
- Gold-anodized finish insures years of corrosion-free use

### REA-C-H Poles

Ext. Length	Closed Length	No. of Sections	Part No.	Price
2 ft.	24 in.	1	60-110	\$9.05
4 ft.	29 in.	2	60-111	\$20.00
8 ft.	51 in.	2	60-112	\$31.50
12 ft.	78 in.	2	60-113	\$39.75
12 ft.	55 in.	3	60-114	\$46.25
15 ft.	68 in.	3	60-118	\$46.20
18 ft.	81 in.	3	60-115	\$56.90
24 ft.	105 in.	3	60-116	\$71.75
27 ft.	118 in.	3	60-117	\$72.20

18 ft. - 27 ft. poles are oversized, extra UPS charges apply.



NEW 09

### Utility Handles

A one-piece, 60 in. pole ideal for floor or window squeegees.

Threaded Tip	60-108	\$10.50
Tapered Tip	60-109	\$10.50

## replacement parts

### Pole Grips

2 Section	64-101	\$3.40
3 Section	64-102	\$3.40

### Replacement Collars

For REA-C-H poles

Small	64-103	\$6.80
Large	64-104	\$7.65



## accessories

### Pro+ Snap-in Pole Tip

- Tapered and threaded tip fits almost any tool for high reach cleaning
  - It locks the Ettore Pro+ 6 in. scraper onto the pole.
- 64-107 \$3.80



### Cobweb Brush

Contoured shape and soft bristles remove dust and cobwebs from corners and baseboards. Great for outdoor use.

63-104 \$7.75



### Ceiling Fan Brush

Cleans top and bottom of ceiling fan blades. Flexible head can be adjusted.

63-103 \$8.70



### Static Duster

Removes dust from any surface. Flexible head and bristles work great on window blinds or any hard to reach area.

63-102 \$6.85



### Bulb Changer

Suction cup holds securely to normal-sized bulbs.

63-105 \$7.05



### Angle Adaptor

Fits all REA-C-H and Interlock poles

63-101 \$13.80



### Cleaning Clamp

Adjustable clamp holds sponges, mop heads, towels and chamois rags (not included).

63-107 \$19.95



Ettore Squeegees  
See page 16



Ettore Washers  
See page 17



Ettore Soaps  
See page 36



**Garelick "Quik Lok"**

Always a favorite of window cleaners, the Garelick's low profile couplers slide easily through the hands.

- Lightweight
- A quarter turn locks or unlocks each section
- Twist lock cams allow the pole to be locked at any length
- Rolled tube edges
- Anodized finish
- Universal sized screw adapter
- Price includes one wooden cone (taper accessory)

**Taper Accessory (Included)**

Taper fits poles for use with squeegees and other non-threaded tools. Maple wood ferrule 1-1/8" diameter by 4-5/8" long and threaded to fit any 3/4" acme thread.

Extended Length	Closed Length	No. of Sections	Part Number	Price
2'	12 in.	2	60-610	\$22.00
8'	41 in.	2	60-611	\$32.50
8'	31 in.	3	60-616	\$32.50
12'	77 in.	2	60-612	\$43.25
12'	55 in.	3	60-613	\$43.25
18'	79 in.	3	60-614	\$58.75 OS*
24'	83 in.	4	60-615	\$68.25 OS*

\*OS = Oversized, subject to extra shipping charges.

**replacement parts**

**Tapered Wooden Pole Tip**

Screw-on type. Holds handles and other accessories to the end of a pole.  
63-71 \$1.85

**Garelick Grips**

2-Section 64-602 \$2.80  
3-Section 64-603 \$3.35  
4-Section 64-604 \$3.65

**Acme Thread Tip**

Replacement tip for Garelick pole.  
64-610 \$3.95

**Angle Adapter**

Adjustable angle elbow, threaded.  
63-502 \$6.40



**Sörbo "Monster Pole"**

Light aluminum poles screw together for an unbelievable 40-foot reach. Due to the time necessary to change out accessories, two poles are recommended working side-by-side.

- Seven 6 ft. sections, the lower two have a cast aluminum, telescopic lock that adjusts from 6 to 12 in., the rest of the tubing is attached with screws and wing nuts and can be adjusted to any height
- Standard cone accepts all squeegees and T-bars
- The most rigid pole on the market
- Weighs only 12 lbs.



Features standard cone

\* Oversized; extra UPS charges will be assessed.

**Sörbo Extension Pole**

The 8 ft. (2.40 m) has two sections and the 14ft. (4.26 m) has three sections which are made partly of drawn tubing to reduce weight.

8 ft. (2 sections)	60-401	\$31.40
14 ft. (3 sections)	60-402	\$57.90
40 ft. (7 sections)	60-403	\$357.00

**Sörbo Pole Head**

Replacement pole tip.  
64-400 \$5.20

**Twin Ledge Angle**

Put any Sörbo handle or t-bar on either side, wash and squeegee without swapping out tools. Head pivots for best angles. Ideal on extension poles. Does not include squeegee or washer.

63-401 \$41.60



**Sörbo Squeegees**  
See page 22



**Sörbo Washers**  
See page 23



**ProCurve Pole System**

This clever pole system incorporates a curved pole and rotating squeegee (or washer) handle. The result is a pole that allows the user to “wand” windows from side to side; a truly time-saving technique.

- Two and three-section fiberglass poles and anodized aluminum inner tube
- Tapered adaptor allows ProCurve tools to rotate smoothly (accepts most manufacturers’ channels)
- Chuck and collet device securely locks pole at intermediate heights



Pro-Curve’s unique rotating handle allows you to pole windows that can’t be done with straight extension poles.

ProCurve Poles and Handles		
3’ - 4’ - 2 Sections	60-501	\$16.50
4’ - 8’ - 2 Sections	60-502	\$23.50
5’ - 12’ - 2 Sections	60-503	\$24.75
5’ - 12’ - 3 Sections	60-504	\$38.00
7’ - 18’ - 3 Sections	60-505	\$42.00 OS*
9’ - 24’ - 3 Sections	60-506	\$58.85 OS*
Rotating Channel Handle	01-501	\$8.25
10” Washer Bar	10-510	\$1.85
14” Washer Bar	10-514	\$2.00
18” Washer Bar	10-518	\$2.45
22” Washer Bar	10-522	\$2.70
Nylon Pole Tip	64-502	\$2.30

Rotating handle  
Washer bar  
Handle and Washer Bar sold separately.

**ErgoCurve™ Pole**

- Ergonomic tri-lobal handle naturally fits the user’s hand, making task easier and more comfortable with less fatigue.
- Features an exclusive soft rubber insert and fluted body running the full length of the handle; ensures a non-slip grip
- Bi-directional compression mechanism provides a secure lock at any extended length.
- Requires only a fraction of a turn in either direction to lock and unlock.

**ErgoCurve Pole**

All sizes are 2 sections.

2 - 4 ft.	60-561	\$19.15
4 - 8 ft.	60-562	\$26.55
6 - 12 ft.	60-563	\$31.40

**Plastic Tapered Squeegee Adaptor**

63-501	\$2.70
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Tri-lobal foam exterior

**ProFit - Better Shape for Better Performance**

- Ergonomic tri-lobal handle is unique in the market
- Only a fraction of a turn required to lock at any point
- More naturally fits the user’s hands, reducing fatigue
- Causes less stress on hands and wrists
- Rubber insert insures a non-slip grip for any hand position
- Comes with plastic tapered squeegee adaptor

**ProFit Pole**

All sizes are 2 sections.

2’ - 4’	60-511	\$17.50
4’ - 8’	60-512	\$27.75
6’ - 12’	60-513	\$37.00 OS*

**ProLok Poles**

- Composite fiberglass fluted handle for easy grip.
- Die cast metal 3/4 in. threaded end and heavy duty chuck and collet locking device
- Two and three section poles available
- Comes with plastic tapered squeegee adapter

**ProLok Poles**

8 ft. 2-Section	60-521	\$23.75
12 ft. 2-Section	60-522	\$32.50
18 ft. 3-Section	60-523	\$51.00
24 ft. 3-Section	60-524	\$53.25

**HydraSoar Flow-Thru Extension Poles**

Foam insulated anodized aluminum construction

- Connects to a standard garden hose (sold separately)
- Includes water flow control shut-off valve and chuck and collet locking device
- Soft brush for glass, boats/cars, awnings, siding, etc.
- Angle adapter allows user to change brush angle to 270°

**HydraSoar Water Poles**

4 - 8 ft.	65-508	\$36.25
6 - 12 ft.	65-512	\$45.00
Cleaning Brush	66-502	\$11.00
Flow-Through Angle Adapter	66-501	\$5.85



\*OS = Oversized, subject to extra shipping charges.



Metallic's aluminum sectional ladders have become the standard of the window cleaning industry. Their rugged but lightweight construction will give years of service. No splintering or cracking to worry about. Box Girder side rail construction, using 6061-T6 alloy, rungs and solid cast fittings provide unusual rigidity and stability when the sections are assembled.

**Main Benefits**

- Lightweight, easy to get from job to job
- Easily transported, each section slips onto the top of the one below
- Each unit tapered so that sections are completely interchangeable

**Please Note** - Assembled length not to exceed 21' (i.e. 4 x 6' sections). Subtract one foot at each joint to calculate the extended length of the assembled ladders. Maximum weight, 250 lbs.

**Top Sections**

Available in three styles, the Open Top, Roller Top and Vee-Groove (the most popular due to it's ability to be set onto window frames and corners). Top sections are available in 6, 7, and 8 foot lengths (only 6' and 7' lengths can ship via UPS).

**Center Sections**

These inter-connect with any top or base section, and are available in 4', 5' and 6' lengths.

**Base Sections**

Flared base sections with non skid feet are made in 4, 5 or 6 feet sizes. Optional Safe Hi Shoes can be installed at the factory if you wish, or you can add them later.

**Warning** - Top and center sections are not to be used as base sections.

Three styles of top sections:



**Locking Pins**

Included on all center and top sections to increase your safety (sections are literally locked together).  
Pair 72-103 \$10.75

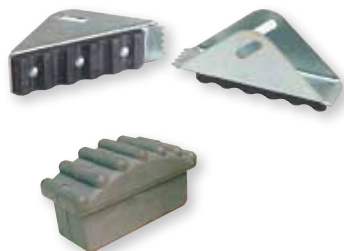
**Yoke**

Replacement sectional ladder yoke.  
72-109 \$16.00



Description	Size	Part No.	Price	Wt. (lbs.)
Roller Top	6'	72-131	\$162.20	12
	7'	72-132	\$183.60	14
	8'	72-133	\$201.75	16
V-Groove Top	6'	72-141	\$156.10	11
	7'	72-142	\$174.45	13
	8'	72-143	\$200.95	15
Open Top Section	6'	72-121	\$161.20	11
	7'	72-122	\$173.40	13
	8'	72-123	\$179.55	13
Center Section	4'	72-161	\$117.30	8
	5'	72-162	\$127.50	9
	6'	72-163	\$146.90	12
Base Section	4'	72-171	\$118.35	8
	5'	72-172	\$128.55	9
	6'	72-173	\$146.90	12
	with shoes	6'	72-174	\$171.40

*\* Stocking sizes - 6ft. Sections!  
Ladders are oversized, additional freight charges apply.*

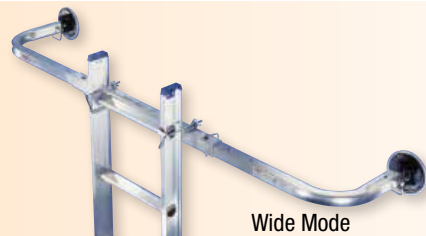


**Safe-Hi Shoes**

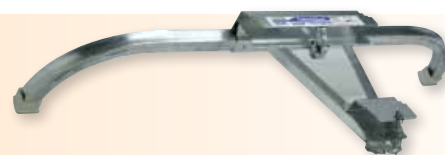
Featuring heavy rubber base pivot to spike position for soil.  
Pair 72-107 \$30.25

**Ladder Plugs**

Pair 72-104 \$15.00



Wide Mode



### Professional Quality Ladder Stand-Off

Two width modes (wide and deep) provide great options for a wide variety of uses. Wide mode covers from 4-6 feet. Deep mode keeps ladder from 12-28 inches from the wall.

- Features the "True Grip" Surface Protection System
- Large pivoting head provides 50 times more surface than standard caps
- Mar-resistant rubber pads offer support and slip resistance
- Unit attaches quickly using "U" bolts
- Disposable Fleece Bonnets slip over pads
- Weighs just 8 lbs...

Ladder Stand-Off	73-101	\$116.80
Replacement Rubber Pads (pair)	73-106	\$25.00
Replacement Fleece Bonnets (pair)	73-105	\$19.40
Replacement Pivoting Head (each)	73-104	\$5.65
Ladder Stand-Off Hardware Kit	73-103	\$33.00

*(Replaces all your Stand-Off hardware)*



### Quick-Click Standoff

A fast and easy to use Standoff, the QuickClick simply slides on and off without any tools.

- Span: 46", Standoff : 10"
- Requires no tools
- Spring-loaded locking latch makes it easier and quicker to install/remove
- Mar-resistant rubber end caps protect work surface
- Stabilizer comes with instructions
- Weighs only 5 pounds

QuickClick Ladder Standoff	73-102	\$82.25
Replacement Rubber End Caps (pair)	73-115	\$7.95

*Quick-Click will accept the following products:*

- 73-106 Rubber Pads
- 73-105 Fleece Bonnets
- 73-104 Pivoting Heads (see prices to left)



### Ladder Cap

Rugged, waterproof, polyurethane cover for the top of your Vee-grooved ladder headpiece. Prevents scratching or other damage. Comes complete with Velcro strap for easy installation.

73-61 \$40.80



### Ladder Mitts

Rugged orange urethane Ladder Mitts fit over the tops of both wood and aluminum ladders. Sold in pairs.

73-81 \$14.50



### Wiljer Ladder Bonnet

Washable, soft fleece-like material snaps on over Vee-Groove ladder tops and protects against scratching and scuffing.

73-91 \$17.75 *Save \$5.33 on 3+*

### Ladder Easel Window Cleaning System

This quickly converts your ladder into an efficient window cleaning station. It attaches to common aluminum and fiberglass stepladders, including folding ladders.

- Adjustable, heavy duty, all stainless steel brackets
- Durable vinyl trough collects dirty water runoff
- Easy to install and remove in seconds
- Holds up to 6 storm windows at one time for cleaning
- Takes up less storage space than dedicated A-frame devices and costs much less by using your existing ladder as the support structure
- Kit includes two brackets

Easel	46-10	\$115.00
End Cap (1)	46-11	\$8.60



green prices mean savings for you





**Level-Eze**

- Reduces the possibility of your ladder shifting unexpectedly by providing a stable, level base
- Allows you to keep both hands on the ladder and both feet on the ground when you set your ladder
- No latches or foot adjustments to throw you off balance just when you need balance the most
- Aircraft quality aluminum is used for the housing and other aluminum parts.
- All steel parts are zinc plated and dichromate dipped
- Locks when you set your ladder down and unlocks when the ladder is picked up
- Can be installed on any aluminum or fiberglass extension ladder.



Leveler w/Swivel Feet	73-401	\$117.85
Shoe Kit	73-402	\$17.50

**Ladder Pro Leveler**

Ladder Pro Leveler utilizes a spring loaded locking device within the extension leg guides. The extension is released by simply pushing down on the triple lock rings so leg slides to achieve a leveled ladder base. Will support loads equivalent to full rated capacity of the ladder. Added safety of ball socket patented swivel feet with rubber pads that give the ladder base a firm grip on sloped surfaces.



- Ideal for using on extension or straight ladders on uneven surfaces
- Attaches easily to Type IAA, IA, I, and II fiberglass and aluminum extension or single ladders
- Features plated steel construction and a safety guard to protect from accidental release
- Offers a maximum differential of 15 ft.

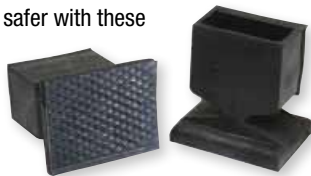


Pair	73-31	\$89.50
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**Rubber Ladder Shoes**

Make wooden or sectional ladders safer with these easy to apply shoes.

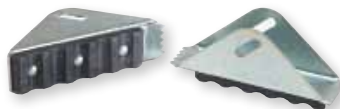
Pair	73-71	\$10.50
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**Metal Safety Shoes**

Bolt on to the base of ladders to provide a more secure footing. Can be pivoted to a spike position for use on soil. Each one comes with a bolt and locking nut.

Pair	72-107	\$30.25
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**LEVELOK Ladder Stabilizer and Leveler**

- Extends a full ten inches
- Mounts easily to all ladders with three bolts (template included)
- Replaces existing feet with heavy duty swiveling steel feet with rubber pads
- Extends simply by pressing on lower foot pedal
- Releases easily, simply press the release lever which causes the leg to draw back up
- All stainless steel ratchet system provides for smooth operation
- Made from aircraft grade aluminum



Pair	73-21	\$118.85
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**Levelok Quick Release Leveler System**

This Single Leveler kit enables you to snap it into a Base Unit on either side of your ladder. A special shoe design provides gripping teeth on both sides, always ready to take a "Pit Bull" bite into ice, snow and gravel surfaces. Snap it on, and you've got an adjustable ladder leg.



Leveler Complete Kit	73-23	\$86.70
Base Unit	73-24	\$35.00
Single Leveler	73-25	\$56.10

**Levelok Quick Connect Shoulder Rest with Base**

This incredibly comfortable pad makes it easy to "shoulder" and carry a ladder with a minimum of body strain.

73-26	\$35.20
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**Ladder Stopper**

**Stops Ladders from Slipping Out**

- Effective on tile, marble, wood, painted concrete, asphalt, brick and stonework, wet and dry grass
- Base features aggressive tread for extra grip
- High quality aluminum "T" bonded inside half-inch vulcanized rubber
- Distributes weight of ladder over much larger area than standard ladder feet
- Can eliminate the need for a second worker to "foot" the ladder
- Exceeds ANSI requirements for ladder slippage

73-51	\$123.70
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**Win Valuable Prizes**  
 Help us celebrate our 100th Anniversary  
 see page 5 for details





The bosun's chair derived its name from the olden days of sailing ships; the Boatswain (or Bosun) was the petty officer on a merchant ship responsible for maintenance and related work; he was the most likely to ride a chair up the mast to work on the rig. Bosun's chairs are still used on sailboats today. They are also a key element in chair access work. The Window Cleaner sits on the chair and lowers himself down a building to clean the windows. The chairs can come with hooks for tools and buckets, padding and safety belts. A fall-protection harness must be worn at all times.

### Chair w/ Waist Harness

- 12 x 24 in. Birch plywood Seat board
- Rounded corners to prevent snags
- Re-inforced bar underneath for added strength
- Heavy Duty webbing to wrap around protection
- 2 bucket clips

92-221 \$145.00



### Padded Chair w/ Waist Harness

- Padded cushion for comfort
- 12 x 24 in. Birch plywood Seat board
- Rounded corners to prevent snags
- Re-inforced bar underneath for added strength
- Heavy Duty webbing to wrap around protection
- 3 bucket hooks
- 2 loop holders

92-222 \$187.25



### 4-Point Chair

- 12 x 24 in. Birch plywood Seat board
- Rounded corners to prevent snags
- Re-inforced bar underneath for added strength
- Heavy Duty webbing to wrap around protection
- 2 bucket hooks

92-223 \$158.00

NEW09



### 4-Point Padded Chair

- Padded cushion for comfort
- 12 x 24 in. Birch plywood Seat board
- Rounded corners to prevent snags
- Re-inforced bar underneath for added strength
- Heavy Duty webbing to wrap around protection
- 3 bucket hooks
- 2 loop holders

92-224 \$225.00

NEW09



### Replacement Parts

Lower Harness	92-201	\$81.50
Seat Pad	92-202	\$64.00
Bucket Clips	92-203	\$2.25
Bucket Hook	92-205	\$7.05
Loop for UB1	92-206	\$3.65



### MIO 4-Point Chair with Waist Belt

MIO Bosun's Chair designed for use with full body harness with front and back D-rings. This 4-Point suspension Bosun's Chair is constructed of weather proof 1 in. laminated plywood and provides a 12 x 24 in. suspended work platform. Equipped with:

- Waist Belt
- Bucket Clips
- Tool Holder

92-141 \$154.05



### MIO 4-Point Chair w/Waist Belt & Back Support

MIO Bosun's Chair designed for use with full body harness with front and back D-rings. This 4-Point suspension Bosun's Chair is constructed of weather proof 1 in. laminated plywood and provides a 12 x 24 in. suspended work platform. Equipped with:

- Adjustable Back Support
- Bucket Clips
- Tool Holders

92-142 \$180.55



### MIO 4-Point Chair w/Waist Belt, Back Support & Padded Seat

MIO Bosun's Chair designed for use with full body harness with front and back D-rings. This 4-Point suspension Bosun's Chair is constructed of weather proof 1 in. laminated plywood and provides a 12 x 24 in. suspended work platform. Equipped with:

- Padded Seat
- Adjustable Back Support
- Bucket Clips
- Tool Holders

92-143 \$219.60



### DBI Sala 4-Point Chair w/Cushion

- Seat board (12 x 24 x 1 in.) w/cushion for added support and comfort
- Integrated side snaps to hang equipment or tools
- 1-3/4 in. wide latex treated polyester webbing construction for added durability
- Cadmium plated alloy steel hardware for strength and corrosion resistance
- Meets or exceeds all applicable industry standards including OSHA and ANSI

92-903 \$260.00



Fall Prevention Harnesses are key to the safety of access workers. When sized and worn properly (and attached to approved systems), they will break the fall of a worker and save his life. OSHA requires that workers wear full-body harnesses, and that they are regularly inspected and replaced; a worn-out harness may fail when it's needed the most. Contact your local OSHA office for more details.

**Sky Genie Lifesaver Full Body Harness**

- Lightweight and quick connect hardware for easy on and off use
- Friction buckle shoulders and quick release leg straps
- Adjustable shoulder and leg straps w/center back D-ring
- Rappel straps provide extra support for use with seat boards and rescue equipment.
- Seat support pads

L 96-211 \$91.25  
 XL 96-212 \$102.00



**Sky Genie Versa-Lite Full Body Harness**

- Lightweight and quick connect hardware for easy on and off use
- Friction buckle shoulders and quick release leg straps
- Adjustable shoulder, leg and chest straps w/back and front D-ring
- Seat support pads
- New York State Approved

L 96-215 \$91.25  
 XL 96-217 \$104.05



**Miller Stretchable Duraflex® Harness**

- Designed for comfort and easy movement
- Synthetic nylon, polyester elastic webbing in the leg and shoulder straps
- Extremely rugged and durable
- Bright color for easy visibility

M 96-332 \$171.75  
 L 96-331 \$171.75  
 XL 96-333 \$171.75



**Miller Full Body Harness**

- Large D-ring on back provides secure anchorage
- Designed for wearing comfort and maximum distribution of shock load in case of fall
- Adjustable leg and chest straps
- Lightweight visible nylon

M 96-321 \$166.50  
 L 96-322 \$166.50  
 XL 96-323 \$166.50



**Petzl Navaho Bod Harness**

- Excellent balance between comfort when hanging and freedom of movement.
- Sternal and dorsal attachment points can be used to connect a fall-arrest system and help ensure that the user is suspended in the correct position after a fall.
- One ventral and two lateral attachment points for multiple hands-free work positioning configurations.
- Foam padded shoulder straps
- Leg loops equipped with DoubleBack buckles.

Sm-Lg 96-441 \$356.00  
 Lg-XXL 96-442 \$356.00



**Freedom Flex Harness**

- Three steel D-rings at center of back and hips
- Flexible shoulder straps for all day comfort
- Mating buckle chest strap and tongue buckle leg straps
- Shoulder strap adjusters for non-binding comfort
- Sub-pelvic strap
- Adjustable stretch with four flex spots
- Made of polyester and nylon

96-804 \$93.60



**Madaco Full Body Harness**

- Versatile Harness
- Use for any general fall protection use
- Lanyard latch back D-ring included
- Lightweight ergonomic design

96-710 \$41.10



NEW09







**Gemtor Lightweight Harness #922**

- Lightweight sub-pelvic polyester full body harness
- Chest strap retainers with snap hook holder
- Quick connect leg and chest straps
- Spring loaded shoulder straps
- New York State Approval #9593

96-51 \$77.50



**Gemtor Front D-Ring Harness #933**

- Full-size front and back D-ring
- Lightweight, sub-pelvic, polyester full body harness
- Quick connect buckles on leg straps and at hip

96-52 \$80.75



**DBI/Sala ExoFit™ Harness**

- Designed for maximum comfort and performance
- Incorporates a breathable Dri-Lex® lining that immediately draws moisture away from the body keeping the worker dry and comfortable all day long
- Ergonomic design incorporates built-in shoulder, hip and leg padding
- The industry's first and only one-handed quick connect buckles
- Wrap around no-tangle design slips on like a vest
- Patented cross-over design provides added comfort and versatility with an adjustable front D-ring
- Back D-ring for connection to fall protection system
- Adjustable non-slip chest strap with intuitive quick connect buckle
- Torso buckles adjust easily, yet hold the straps firmly in place and complete the 5-point adjustment system
- Coated hardware for corrosion resistance

Medium 96-902 \$235.00  
 Large 96-903 \$235.00  
 Extra Large 96-904 \$235.00



**DBI/Sala Delta™ II Crossover Harness**

- Delta No-Tangle design for added comfort and easy donning
- Spring loaded stand-up back D-ring ensures fast, easy, and safe connections
- Patented cross-over design provides added comfort and versatility with an adjustable front D-ring
- Side D-rings for work positioning
- Parachute buckles on lower shoulder straps for quick and easy adjustment
- Pass-thru buckle leg straps for fast & easy donning
- Polyester webbing construction for added durability
- Plated hardware for corrosion resistance

Small - Large 96-921 \$116.50  
 Extra Large 96-922 \$116.50



**Dennington Safety Harness**

NEW09

The unique design allows the elimination of tear away lanyards and stops you within 6 ft. of maximum fall distance with the use of a shock absorber which is built into the unit itself. It allows for a vertical fall and recovery by virtue of the 3-point balancing system. This will significantly reduce the retrieval time and potential of circulatory problems associated with hang time. It facilitates for a much quicker and easier retrieval process. It also absorbs the downward inertia of the victim, not transferring it to lateral excretion into the structure used as an anchorage point. It is during the "slamming" stage of falls where numerous head, back and neck injuries occur.



M 96-610 \$203.00  
 L 96-611 \$203.00  
 Shoulder Pads (2) 98-40 \$7.15



**Observer Full Body Harness**

NEW09

Fully adjustable fall-arrest harness. Unparalleled comfort and safety.

- Certified for compliance with NFPA 1983 standard
- Padded waist belt and leg-loops
- Double buckles on waist belt, leg-loops and shoulder straps
- Descender attachment point conforms with EN 813 requirements
- Rear fall arrest attachment point conform with EN 361 requirements
- Positioning belt with two attachment elements conforms with EN 358 requirements
- Two gear loops

Md-Lg 96-600 \$214.20  
 XL 96-601 \$214.20



Descenders allow the operator to slowly descend down a properly anchored rope in a controlled manner. There are two basic types of Descenders, Cylinder and Rack Systems. When using Cylinders, the rope wraps around a shaft, it slides around the shaft and gently lowers the worker. Rack Systems feature at least four parallel bars that the rope is woven through; these bars slide up and down the bracket and cause resistance, like the shaft on the cylinders. Racks also offer a controlled descent. Lately, newer models with brakes (like the Petzl on page 56) have also been introduced.

**Sky Genie Cylinder**

One of the industry standards, this tried and true descender has a great safety reputation and is easy to use.

- Rope wraps around the shaft and passes through the device
- Decelerate or Stop descent and remain suspended by applying pressure to free end of line
- Lock in one position by looping free end of line over top
- Preset rate of descent by number of turns around the shaft. Few turns for rapid descent, more for slower rates. Descent speed MUST be controlled by user.
- 1/2 in. rope
- Weight 1.3 lbs

- A) Rope wrapped around steel shank
- B) Cover over rope and shank
- C) Rope locked in place by wrapping around the top of the Descender



93-214 \$185.90

**CAUTION! SAFETY WARNING**

The SKY GENIE DESCENT SYSTEM has been designed, tested and engineered for use with a specific line, the L4 nylon line manufactured by the Sky Genie factory. Critical tolerances of quality, careful inspection by trained factory personnel, and use of the finest fibers create a line which is matched to the 14G-0 Sky Genie cylinder.

The use of other "look alike" line with the Sky Genie cylinder can create hazardous situations on the job and leave a worker inadequately protected.

In addition to perhaps not meeting OSHA standards, the use of any line other than the L4 type, manufactured by Sky Genie will void any express or implied warranties of this product. Any modification or alteration of Sky Genie line or equipment can result in an unsafe working condition.

**Video Training**

- Learn how to use the Sky Genie Descender
- Learn about rope care

79-10 \$177.50



**Rope Rider Descender**

- Certified by UL to meet ANSI/ASSE Z359.1, ANSI/ASSE A10.32
- Pulling down on the sleeve allows the user to descend slowly and smoothly
- Ideal work and rescue tool; rated for 2-person descent
- Immediate hands-free braking feature: to stop, the user simply lets go; unit also features secondary panic brake
- Aircraft-grade Aluminum alloy construction for strength and endurance
- Solid connection eye
- Used with 1/2 or 7/16 in. Kernmantl rope
- Weight 1.5 lbs



93-61 \$389.15

**Figure 8 Descender**

One of the most popular full-sized descenders used by professionals throughout the rescue, fire service, and police/tactical markets. Machined from 1/2 in. thick, solid aluminum, heat-treated bar and then finished with a very tough, hard-anodized finish in either grey or black. The carabiner hole functions effectively as a sticht plate for 1/2 in. rope, although this configuration does not provide sufficient friction when used with smaller diameter rope.



93-410 \$52.55

**Miller Descent Device**

- Apply slight outward pressure on the free end of line. Descends faster or slower; decelerating and stopping by; and locking in a stationary position for a hands-free work environment
- Pre grooved track guides on 1/2 in. braided line through the cylinder
- Large tie-off finger allows easy rope locking.
- Speed depends on the number of times line is wrapped around the mandrel
- 1/2 in. rope
- Weight 1.65 lbs



93-301 \$212.20

**MIO Rope Descender w/Lever Brake Control**

- Wrap rope around the center shaft and then through the braking mechanism.
- Lever Break control mechanism allows the operator to vary speed and brake at any time.
- 7/16 and 1/2 in. Approved Rope
- Weight 3 lbs

93-101 \$265.20



**MIO Rope Descender w/Overspeed Control**

- Built-in mechanism ensures complete stop if the operator makes a mistake
- Lever Break control mechanism allows the operator to vary speed and brake at any time.
- Descend from a full stop to a full go
- 7/16 and 1/2 in. Approved Rope
- Weight 4 lbs

93-102 \$344.80



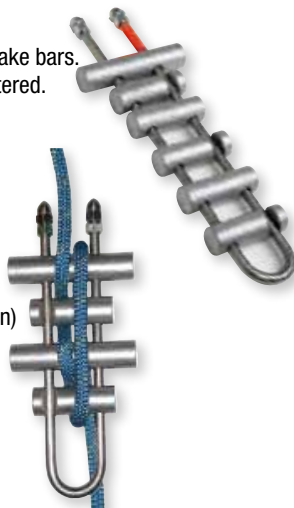




Rappel Racks control the rate of descent by varying amount of friction through the number of bars and changing spacing between those bars. Bars are easily replaceable. Stainless steel bars offer less friction than aluminum, but wears longer. *Recommended ropes: KM III and Safety-Core*

### Large Bar Rappel Rack

- Stainless steel brake frame w/ six 1 in. diameter brake bars.
  - Top bar 4 in. long with a training groove to keep centered.
  - 3 of the 6 solid aluminum bars are slotted and the remaining 3 are fixed onto frame
- 93-71 \$107.75



### MIO 4 Bar Rack System

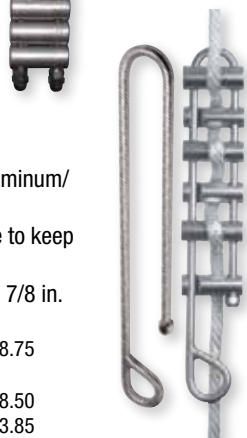
- Equipped with 3/8 in. stainless steel rack frame
  - 1 in. diameter aluminum Brake Bars (for extra friction)
- |                              |        |          |
|------------------------------|--------|----------|
| Rack                         | 93-104 | \$111.45 |
| Short Aluminum Bar w/Slot    | 93-110 | \$12.00  |
| Short Aluminum Bar w/o Slot  | 93-111 | \$11.75  |
| Long Aluminum Bar w/Groove   | 93-112 | \$15.60  |
| Long Aluminum Bar w/o Groove | 93-113 | \$18.25  |



### MIO Rack-Type Descender

The rack and bar systems allow the user to control rate of descent by varying the amount of friction by changing spacing between bars and changing the number of bars being used.

Rack	93-105	\$344.80
Stainless Short Bar w/Slot	93-115	\$19.15
Stainless Short Bar No Slot	93-116	\$18.90
Stainless Long Bar w/Groove	93-117	\$22.45
Stainless Long Bar No Groove	93-118	\$21.95



### SMC Rappel Rack System

- Stainless steel brake bar rack frame arranged w/6 aluminum/stainless steel brake bars
- Top Brake bar is 1 in. Aluminum with a training groove to keep rope centered
- 2nd - 6th brake bar available in 3/4 in. stainless steel, 7/8 in. aluminum or in a combination

6 Bar Stainless Rack w/6 Aluminum Brake Bars	93-408	\$118.75
6 Bar Stainless Rack w/1 Aluminum (top) Brake Bar, 5 Stainless Brake Bars	93-409	\$128.50
Stainless 6 Bar Rack Frame only (without bars)	93-405	\$53.85
A) 7/8 in. Alum. Bar w/training groove	93-401	\$12.25
B) 7/8 in. Alum. Bar with straight slot	93-403	\$10.95
C) 7/8 in. Alum. Bar with angled slot	93-402	\$9.55
D) 3/4 in. SS Bar w/angled slot	93-404	\$10.15
E) 7/8 in SS Bar w/groove	93-400	\$50.25



### PMI Bar Tender

Store your brake bar rack in this handy pouch to keep bars together and minimize the jingle factor when not in use.

- Fits any size rack, with or without a hyper bar
- Slide the Cordura sheath around the frame and bars of the rack, and secure the Velcro closure
- Snap the quick release buckle closed and cinch tight to secure the bars from sliding down the frame

98-550 \$12.75



**WARNING** - An independently anchored safety line with a Rope Grab, Lanyard and Harness is required when working with this equipment. Consult your OSHA office for details.

### MIO Termination Plates

This plate provides a quick, reusable field termination that eliminates the need for knots and factory termination.

- Model 98-110 terminates 7/16 in. and 1/2 in. diameter double-braided or Kernmantle rope lifeline
- Model 98-111 is used to terminate 5/8 in. and 3/4 in. diameter 3-strand rope

*Note: Requires connecting hardware like a tie-off pad and carabiner*

7/16 in.	98-110	\$61.75
5/8 in.	98-111	\$57.40



### The Petzl I'D

A rope descender with a brake that engages in the event the worker lets go of the controlling arm during the descent. The I'D works on 1/2 in. double braided kernmantle ropes.

- Pull back on handle with one hand and control the rope with the other hand
- Self Braking device if you lose control
- Can be locked for hands free work.

1/2 in. Rope (red)	93-51	\$213.45
7/16 in. Rope (gold)	93-50	\$213.45



### Sky Genie Descent Control Tie-Off Pad

- Use as an anchor point when tying off to a beam, girder, or rooftop structure
- Support at least 5,000 lbs.
- Strong Nylon webbing with 2 different sized D-Rings to wrap around the beam and tie off your line through both D rings
- 6 ft. standard lengths available. Longer sizes are available by special order

98-20 \$54.85



### DBI Sala 3 ft. Tie-Off Pad

- Pass-through design makes attaching to anchorage quick and easy
- 1-3/4 in. polyester strength member (5,000 lb. Min. tensile strength)
- 3 in. wide polyester wear pad for added abrasion resistance and product longevity
- Coated steel hardware for corrosion resistance and strength
- Meets or exceeds OSHA, ANSI and the stringent ANSI Z359 standards

98-901 \$40.50





Rope Grabs are a critical piece of the safety equation. They are locked to an independently anchored safety rope; and then attach directly to the worker's safety harness via a lanyard. Rope Grabs are intended to be pulled up the rope, but lock in place when they move downwards.



**Petzl ASAP 7/16 in. Rope Grab**

- Locks even if grabbed during a fall
  - Works on vertical or angled rope
  - Moves along the rope without manual intervention (downwards and upwards).
  - Easy to install & remove at any point on the rope
- 94-52    \$208.10



**Miller 5/8 in. Rope Grab**

- Stainless steel
  - Easy to attach and detach
  - Easy to move up and down vertical line
  - NYS approved #9374
- Recommended Rope: Multi Line II.*  
94-321    \$165.50



**Komet 5/8 in. Anti-Panic Rope Grab**

- For 5/8 in. diameter rope
  - Self trailing; will automatically lock onto rope & stop a fall
  - Easy to attach and detach at any point on the line
  - Stainless steel construction
  - Large attachment ring
- Recommended Rope: Multi Line II.*  
94-61    \$126.75



**DBI Sala 5/8 in. Rope Grab**

- Utilizes both inertia & cam locking system for added safety
  - Attach or detach anywhere along lifeline for added versatility
  - Corrosion-resistant stainless steel and thermoplastic construction
  - Meets or exceeds OSHA, ANSI, stringent ANSI Z359 standards
- 94-901    \$127.00



**MIO 7/16 in. Rope Grab w/Lanyard**

- Durable light weight stainless steel
  - Complete with 3 ft. shock-absorbing lanyard
  - Self trailing and will automatically lock in place in case of fall
  - Energy absorbing
  - Easy to attach or remove at any point on line
  - ID Color: Gold
  - Meets OSHA/ANSI requirements
- Recommended Rope: 7/16 in. KM III Static Kernmantle, KM III Max.*  
94-111    \$149.70



**MIO 1/2 in. Rope Grab w/Lanyard**

- Durable light weight stainless steel
  - Complete with 3 ft. shock-absorbing lanyard
  - Self trailing, automatically locks in place in case of fall
  - Energy-absorbing
  - Easy to attach or remove at any point on line
  - ID Color: Blue
  - Meets OSHA/ANSI requirements
- Recommended Rope: 1/2 in. KM III Static Kernmantle, Safety Core, Hi-Vee*  
Standard Lanyard            94-116    \$153.00  
Shock-Absorbing Lanyard    94-117    \$149.70



**Gemtor 5/8 in. Rope Grab w/3 ft. Lanyard**

- Stainless steel for superior corrosion resistance
  - Energy Absorbing
  - Attach, detach and position at any point on vertical line
  - ID Color: Red
  - NY approved #9502-Rope Grab only
- Recommended Rope: Multi Line II.*  
94-51    \$136.20



**Miller 5/8 in. Rope Grab w/Lanyard**

- For 5/8 in. diameter rope
  - Anti-panic design prevents accidental disengagement of locking mechanism
  - Stainless steel
  - Easy to attach and detach
  - Easy to move up and down vertical line
  - 4 ft. shock-absorbing lanyard attached
  - NYS approved #9373
- 94-322    \$184.00



**DBI Sala 5/8 in. Rope Grab w/Lanyard**

- 3 ft. shock-absorbing lanyard attached
  - Utilizes both inertia and cam locking system for added safety
  - Attach or detach anywhere along the lifeline for added versatility
  - Corrosion resistant stainless steel and thermoplastic construction
  - Meets or exceeds OSHA, ANSI and the stringent ANSI Z359 standards
- 94-902    \$179.00

**SafeWindowCleaning.com**  
A site dedicated to  
Water-Fed Poles and Systems



NEW09



### Sky Genie 3 ft. Shock-Absorbing Lanyard

An ultra-light new design, the Soft Landing lanyard features double locking snap hooks made from space age alloys offering reduced weight while meeting strength requirements.

- A unique feature allows you to peek inside the shock absorber to inspect its condition, and to re-close its Velcro seal.
- Light weight appeals to workers' sense of comfort while sturdy construction offers safety on the job.

97-224 \$69.75



### Sky Genie 6 ft. Shock-Absorbing Lanyard

This new lanyard has 2 double-locking snaps. Lightweight and sturdy.

97-225 \$56.75



### Sky Genie 16 in. Short Lanyard

Highly visible 1" wide webbing with ultra-light double locking snap hooks.

- These short lanyards keep the rope grab within reach for easier control.

97-222 \$47.50



### Miller Shock-Absorbing Lanyard

A unique build-in shock absorbing system greatly reduces shock in a fall.

- Equipped with a warning flat that pops out after excessive force has been exerted and warns you not to re-use the lanyard.
- Two double-locking snap hooks to prevent roll-out

4' 97-392 \$80.35  
6' 97-393 \$86.00



### Gemtor Shock-Absorbing Lanyard

Conforms to OSHA requirements for fall arrest when used in conjunction with a conforming body harness.

- Built-in energy-absorbing feature
- Two forged double locking snap hooks

3' 97-503 \$57.00  
4' 97-504 \$59.50  
6' 97-506 \$61.50



### Madaco 3 ft. Shock-Absorbing Lanyard

- Built in shock pack
- Two double locking snaphooks

96-715 \$47.75



### DBI Sala 3 ft. EZStop® Lanyard

- 1 in. polyester webbing for durability and longevity
- Limits arresting forces to 900 lbs. or less
- Meets or exceeds OSHA, ANSI, stringent ANSI Z359 standards

3' EZStop II 97-903 \$83.95  
2.5-6' EZStop Retrax 97-906 \$82.00



### Oval Shaped Steel Carabiner

- 6,750 lbs. breaking strength
- 3/4 in. gate opening
- 4.94 oz.

98-801 \$25.25



### SMC Locking Aluminum Carabiner

- 6,000 lbs. breaking strength
- 0.82 in. gate opening
- 2.6 oz.

98-511 \$21.75



### Self-Locking Aluminum Carabiner

- 5,000 lbs. breaking strength
- 7/8 in. gate opening
- 3.2 oz.

98-202 \$22.75



### PMI Mate II HMS TripLock

- 6,070 lbs. breaking strength
- 1 in. gate opening
- 3.3 oz.

98-512 \$27.05



### SMC Large Locking Steel Carabiner

- 9,000 lbs. breaking strength
- 1.12 in. gate opening
- 10.6 oz.

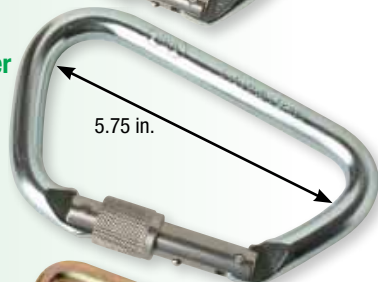
98-521 \$35.50



### Extra Large Steel Locking Carabiner

- 8,000 lbs. test strength
- 1.4 in. gate opening
- 12.3 oz.

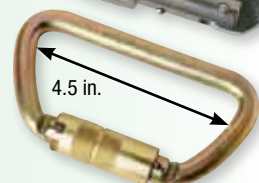
98-531 \$40.30



### Self-Locking Steel Carabiner

- 5,000 lbs. breaking strength
- 3/4 in. gate opening
- 8 oz.

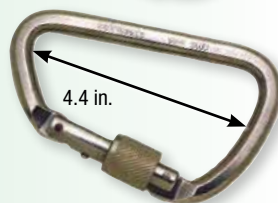
98-201 \$19.95



### SMC Lite Steel TriGuard

- 10,340 lbs. breaking strength
- 0.94 in. gate opening
- 6.6 oz.

98-523 \$41.00



### SMC Large Steel Auto-Locking Carabiner

- 10,340 lbs. breaking strength
- 1.20 in. gate opening
- 11.3 oz.

98-522 \$51.55



## rope care

NEW09

### CMI Rope Washers

The unique flow pattern created creates a high-pressure spiraling flow pattern that lifts dirt and contaminants out of rope better than conventional designs. Constructed from tough PVC, attaches to any standard spigot or garden hose.

1/2"	91-71	\$39.05
5/8"	91-72	\$41.35



### PMI Rope Soap

When your life is on the line, a clean rope counts

- Gently removes dirt, oil, grease, soot, smoke, and other toxins
- Low PH, biodegradable, and has a great citrus scent
- One bottle of the concentrated formula cleans up to 12 loads
- Use 6 - 8oz. per 15 gallons of water

91-627	\$15.05
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### Rope Cutter

Fusing rope ends helps to protect your rope and prevent unraveling after you cut your rope. This table top model operates on 110 volts AC and features a red "on" light.

Electric Hot Knife	91-635	\$163.20
2 in. Hot Knife Blades	91-636	\$27.80



### Whip-End Dip

Seal your rope ends to prevent fraying and add a color-coding option to your gear with this water-based liquid vinyl compound sealant. Made in USA.

Clear	91-631	\$7.95
Red	91-632	\$7.95
White	91-633	\$7.95



### Shrink Tube

Protect rope ends. Write your own information on the ID tags (right) and slip between shrink tube and rope. Apply hot air or infrared heat source, and clear tubing shrinks tightly around rope and tag.

3/4 in. Shrink Tube (1 ft.)	91-629	\$0.80
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### Rope ID Tags

Provide important information such as when a rope is put into service, ID, etc. Write your own information on the ID tags and slip between shrink tube (left) and rope.

60-pack	91-630	\$32.65
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Protect your valuable life supporting rope from abrasions against rough and sharp edges. These rope protectors wrap around your lines for layers of protection.

### Sky Genie Rope Protector

- Attach cord to secure to your line for desired position
  - Protect you line against cutting or abrasions
  - 18 inches in length
- |        |         |
|--------|---------|
| 91-221 | \$26.75 |
|--------|---------|



### K-20 Rope Protector

- Tie-on cord allows you to position it anywhere along the line
  - Full 18 in. Velcro closure keeps it snug and closed
  - Heavy-duty padded ballistic black canvas
  - Fits onto any diameter rope
  - 18 inches in length
- |       |         |
|-------|---------|
| 91-11 | \$41.75 |
|-------|---------|



### K-36 Rope Protector

- Heavy-duty padded ballistic black canvas
  - Tie-on cord allows you to position it anywhere along the line
  - Full 18 in. Velcro closure keeps it snug and closed
  - Fits onto any diameter rope
- |     |       |         |
|-----|-------|---------|
| 18" | 91-32 | \$26.75 |
| 36" | 91-31 | \$45.50 |



### Rope Wrapper

- 18 inches in length
  - Ultra tough, multi-layer canvas duck cloth, the rope
  - Velcro® fastener allows quick placement and removal
  - Grommet is used to secure it with an accessory cord (supplied with the Rope Wrapper).
- |        |         |
|--------|---------|
| 91-518 | \$24.25 |
|--------|---------|



### Protect Me Rope Protector

- Protects your ropes and worker's safety
  - Velcro closure to secure your line
  - 23 inches in length
- |       |         |
|-------|---------|
| 91-41 | \$29.95 |
|-------|---------|



### Bluewater Spectra Rope Protector

A completely new approach to rope pads. A woven sheet of Spectra fabric with a laminate for dimensional stability. A reversible, lightweight, low bulk and exceptionally abrasion resistant guard. 24 in.

91-45	\$29.90
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NEW09



### Spiroll Rope Protector

- Effective, economical protection for stationary ropes
  - Rugged polyurethane material wraps snugly around a single rope to secure it in place, slides to the desired location
  - Won't slide down a rope and doesn't need to be tied off
- |        |         |
|--------|---------|
| 91-625 | \$14.00 |
|--------|---------|







**Braided "Safety Core" 1/2 in.**

Construction: -Blue colored nylon core with a polyester and polypropylene white cover provides easy detection of abrasions and wear.

Tensile Strength: 6,500 lbs., Used for: Descenders & Rope Grabs

- Very resistant to abrasion
- Colored nylon core quickly exposes wear and abrasion
- Non-rotating construction cannot be backturned or hockled
- Soft and flexible, yet extremely durable

300 ft.	90-153	\$250.70
600 ft.	90-155	\$499.30
1,200 ft.	90-156	\$941.25



**KM III Static Kernmantle Rope 1/2 in. & 7/16 in.**

Construction: Continuous filament Polyester core braided over a Nylon Core, white with a blue tracer.

Tensile Strength: 1/2 in. - 8,200 lbs., 7/16 in. - 7,500 lbs., Used for: Descenders & Rope Grabs

- Improved abrasion, chemical and UV resistance
- Low stretch, non-rotating and easy to knot with low moisture absorption
- Flexible and durable enough for use with many descent devices and rope grabs

1/2 in. - 300 ft.	90-136	\$280.75
1/2 in. - 600 ft.	90-142	\$542.50
7/16 in. - 150 ft.	90-112	\$121.50
7/16 in. - 300 ft.	90-113	\$236.00
7/16 in. - 600 ft.	90-115	\$461.75
7/16 in. - 600 ft. Orange	90-117	\$523.50
7/16 in. - 1,200 ft. Orange	90-118	\$980.75
7/16 in. - 1,200 ft.	90-116	\$902.75



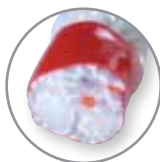
**Multi Line II "Safety Line" 5/8 in.**

Construction: Three Strand polyester composite fiber

Tensile: 8200lbs, used for safety lines, tie offs

- Easy handling, flexible, and strong multipurpose line.
- Polyolefin keeps line diameter up without adding weight.
- Very little water absorption
- Multiline II will not break down from UV exposure
- Soft, spun polyester is added to the surface for better grip and chafe protection

300 ft.	90-181	\$224.75
600 ft.	90-182	\$432.50



**KM III Max 7/16 in.**

Construction: Tightly woven polyester cover over a nylon core. Black with gold tracer

Tensile Strength: 7,900 lbs., Used for: Descenders and Rope Grabs

- Greater abrasion resistance than KM III
- Flexible and durable enough for use with many descent devices and rope grabs.
- Chemical and UV resistance
- Non-rotating and easy to knot with low moisture absorption

300 ft.	90-122	\$275.15
600 ft.	90-123	\$544.45



**Safety Core "Hi-Vee" 1/2 in.**

Construction: Blue colored nylon core with a polyester and polypropylene orange and white cover provides easy detection of abrasions and wear.

Tensile Strength: 6,300 lbs., Used for: Descenders and Rope Grabs

- Protective finish added to further minimizes abrasion and maximize rope life
- Flexible & durable enough for use with many descent devices & rope grabs
- Hi-Vee means High-Visibility: Bright color identifies it as safety line
- Colored nylon core quickly exposes wear and abrasion
- Non-rotating construction cannot be backturned or hockled

300 ft.	90-163	\$315.20
600 ft.	90-164	\$590.60
1,200 ft.	90-165	\$1,158.50



**KM III "The Fly" 7/16 in.**

Construction: Unique spliceable kernmantle construction. Red with white flecks.

Tensile Strength: 6,000 lbs., Used for: Descenders

- Flexible and durable enough for use with many descent devices and rope grabs.
- Resists flattening and glazing
- Chemical and UV resistance
- Easy to knot and excellent knot holding
- Durable cover

150 ft.	90-128	\$174.25
200 ft.	90-129	\$196.75
300 ft.	90-130	\$301.25
600 ft.	90-131	\$475.60



rope

**Sky Genie Descent Rope 1/2 in.**

**Construction:** 18 braids of nylon fiber for maximum strength

**Tensile Strength:** 5,000 lbs.

**Recommended for Sky Genie Descender**

- High Temperature with Shock absorbing elasticity
- Preformed eye at each end with a length of abrasion protection
- Each line stamped with serial number and assembly date

100 ft.	90-21	\$114.75
150 ft.	90-22	\$158.65
200 ft.	90-23	\$202.25
250 ft.	90-24	\$251.45
300 ft.	90-25	\$311.65
350 ft.	90-26	\$344.25
400 ft.	90-27	\$396.80
500 ft.	90-28	\$479.95
600 ft.	90-29	\$601.05
750 ft.	90-30	\$1,091.70



**Solid Braided Nylon Rope 1/2 in.**

**Construction:** Solid braided nylon

**Tensile Strength:** 6,100 lbs.,

**Used for:** Descenders Rope Grabs

- High tenacity fibers of quality nylon tightly woven to give top notch performance

300 ft.	90-310	\$150.00
600 ft.	90-311	\$248.00



**Bluewater II 1/2 in.**

Completely redesigned the 1/2-inch BlueWater II now boasts a 3 sigma!! tensile strength rating of 10,280 lbf. This gives it a Working Load Limit [WLL] of 685 lbs. The rope that made us famous, BlueWater II+plus, is the standard for use in caving, rappelling and rescue applications. Its design of double twist cabled sheath strands as well as double twist cabled core strands make it the best all around choice in static/ low elongation ropes.

300 ft.	90-509	\$326.70
600 ft.	90-510	\$654.85



**Bluewater SafeLine 7/16 in.**

Certified to NFPA 1983/2006 edition standards for Light Use ropes. Durable 16 carrier construction has a 50/50 ratio of sheath to core for long wear. Solution dyed polyester sheath/ nylon core. Tensile Strength of 6635 lbf.

300 ft.	90-516	\$278.75
600 ft.	90-517	\$540.90



**Esterlene 9000 5/8 in.**

This 5/8 inch rope has a special lay for high strength. It has heavy polyester cover yarns for optimum abrasion resistance. The core yarns are of high tensile danline polypropylene. Tensile strength is 9,000lbs.

60 ft.	90-605	\$278.75
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NEW09



rope gloves

**Palm Guard Gloves**

Protect your hands from rope abrasions and burns. Large enough to fit over the Glacier or Kenai glove. One size fits all.

Pair	56-41	\$17.75
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**PMI Lightweight Rappel Glove**

- Lightweight, pliable goatskin provides excellent finger dexterity
- Two extra layers of cowhide across the palm maximize protection

S	56-705	\$38.55
M	56-706	\$38.55
L	56-707	\$38.55
XL	56-708	\$38.55



**PMI Rope Tech Glove**

- Extremely versatile
- Better dexterity than PMI rappel gloves for tending a Z-rig or tying knots
- Two layers of goat skin and a one layer synthetic leather palm with spandex and air mesh for breathability

S	56-701	\$36.50
M	56-702	\$36.50
L	56-703	\$36.50
XL	56-704	\$36.50



**CAUTION:** Rope failure can cause SERIOUS INJURY OR DEATH. FIBER ROPE WILL FAIL IF WORN, DAMAGED, ABUSED, OVERLOADED OR NOT PROPERLY MAINTAINED. • USER is responsible to determine the suitability of a rope for specific applications • KNOW the working load limit (WLL) of your rope • DO NOT exceed the WLL • USE ONLY rope in good condition, without cuts or pulled strands • USE ONLY equipment that is the correct size for the rope • REMOVE rope from service if it has been shock loaded • AVOID abrasion or cutting by using rope protectors • DO NOT bend rope around unprotected sharp corners • CLEAN ropes function better and last longer.



### Suction Cup Grabbers

- Ideal for positioning yourself from a bosun chair or controlled descent
- Quick release triggers
- Not recommended to use as an anchoring point
- Double 4 in. holds up to 50 lbs.
- Single 5 in. holds up to 35 lbs.
- Double 5 in. holds up to 75 lbs.

Double 4 in. Complete	98-401	\$38.75
Single 5 in. Complete	98-403	\$33.00
Double 5 in. Complete	98-405	\$43.50



### Replacement Cups & Triggers

Single Trigger	98-406	\$7.85
Double Trigger	98-407	\$11.75
4 in. Replacement Suction Cup	98-402	\$11.25
5 in. Replacement Suction Cup	98-404	\$13.75



### Two Finger Gripper

- 3-1/4 in. molded rubber suction cup with two finger holes
- Easy on and off the glass or metal surface
- Two rubber release tabs for easy release from surface

98-408 \$3.50



### Straight Lifter Handle with Single 4 in. Cup

Ideal for handling plastic, metal, glass and any other materials with a smooth non-porous surface. The handle rises from the top of the suction cup providing its user with an extra reach.

18 in.	98-411	\$36.75
36 in.	98-413	\$75.25



### 8 in. Heavy Duty Vacuum Cup

- Steel and Aluminum handle
- 8 in. rubber contact surface w/125 lbs. holding capacity
- Pump the handle to lock onto glass
- Release by a small, protected lever
- Complete with protective carrying case
- Not recommended to use as an anchoring point

98-108 \$114.75



### SMC Roof Roller

Specialized edge protection designed for right angle structural edge. Optimum placement of the two 4 in. rollers keeps rope away from the edge to maintain rope strength and system efficiency.

98-536 \$226.25



### CMI Ultrascenders

- For rugged use and exceptional strength
- Large model features a molded handgrip for extra comfort,
- Both share simple one-handed operation on and off the rope
- Extruded and machined bodies with stainless steel parts
- Sold in pairs
- Breaking Strength: 5,000+ lbs

Right & Left	95-202	\$155.00
Right	95-203	\$77.00
Left	95-204	\$77.00



### Petzl Ascender

For use with 7/16 or 1/2 in. lines

- Provides a firm grip for climbing
- Comfortable elastomer grip provides thermal insulation
- Available in either Gold (left hand) or Blue (right hand)
- Sold individually

Gold	95-101	\$66.05
Blue	95-102	\$66.05



### Rescuer Ascender

For use with 7/16 or 1/2 in. lines.

- Compact and Ultra light.
- Cam-activated for sure and safe gripping
- Sold individually

95-103 \$63.00



### CMI Expedition Ascender

Double-handled Expedition Ascender is your solution for a better grip. Two handles let both hands get in on the lifting action, making going up almost as easy as going down. The ergonomic design cushions the hand and provides something substantial to hold on to. Other features include an easy to operate safety, dual tie in holes at the bottom, and an extra deep rope channel. Extra large handgrip opening easily accommodates gloved or mittened hands.

95-207 \$130.05

NEW09



### CMI Foot Ascender

Rope climbing is made easier by the CMI Foot Ascender. The addition of this boot-mounted device maintains tension on the rope, allowing for easier advancement of the main ascender, and promotes better use of body mechanics by keeping your body in an upright position. The body is crafted from anodized aluminum with hardcoated cams.

Right	95-210	\$67.35
Left	95-211	\$67.35

NEW09



### Tool Bungee

Never again will you have to watch your squeegee or other tool crash to the ground.

- Triple thick heavy duty connector ring fasteners
- Connect one end to your tool, other end to a chair, harness etc.
- Swivel connector reduces twisting or binding
- Corrosion resistant materials

55-21 \$14.75







The MIO-250 Aluminum Portable Roof Rigs are the toughest and most versatile roof rigs available. The complete line of MIO roof rigs consist of a three dimensional triangular configuration which allows the entire rig to support the load. All stress points of the roof rig are trussed and welded for extra strength and support.

The lower stabilization beams can be easily dis-engaged and re-attached in seconds to move the rig over vent pipes or other roof top obstructions. Stainless steel quick connect pins are included for faster assembly. MIO roof rigs can be dis-assembled and transported through standard roof hatch openings.

All MIO portable roof rigs meet the requirements of the ANSI/IWCA I 14 Standard

NOTE: Prices are FOB shipping point, Philadelphia, PA.



**MIO Portable Roof Rigs**

Quick Name	mini 2x4	midi 2x6	maxi 2x8	midi 3x6	maxi 3x8
Specifications					
Outreach (inches)	24	24	24	36	36
Length from Front Wheels to Back Wheels (ft.)	4	6	8	6	8
Counterweights (LBS.)	504	336	252	504	378
Number of 42 pound weights	12	8	6	12	9
Unit Weights (lbs.)	130	150	145	173	156
Safety Factor Counterbalance	4:1	4:1	4:1	4:1	4:1
Height from Anchor Point to Ground (Eyebolt)	52	65	80	71	86
Inside Parapet Wll Clearance (inches)	43	55	70	55	70
12" Diameter Rubber Pneumatic Wheels	6	4	4	6	4
Part Number	99-124	99-126	99-128	99-136	99-138
Price Each	\$3,049.00	\$3,049.00	\$3,049.00	\$3,459.00	\$3,459.00
(Material: All are Aluminum Except as noted)					

**42 lb. Weight for MIO Rigs** 99-106 \$59.00

**MIO Tie Back Anchor**

- Easy to attach to the parapet for support
- Lightweight and adjustable to fit walls with a thickness of up to 24 in.
- Heavy duty steel construction
- Weight: 40 lbs.

99-100 \$605.00



**MIO Parapet Roller**

- MIO Parapet Roller is a portable roof anchor that rests the beam on the parapet.
- Counterweights (4:1 counterturn) are rested on the cart with wheels that can be raised during work and lowered for positioning and moving on the roof.
- The adjustable boom is suitable for parapets up to 6 feet in height.

99-103 \$3,460.00



**MIO Swivel**

- Incorporates a sealed ball bearing for smooth rotation
- Ideal for use on the vertical rope line during a manual descent with a "cylinder" type descender
- More durable than the sport swivels available
- Sold on its own or permanently attached to a roof rig

99-104 \$122.00



**SMC Rigging Swivel**

- Holes are sized to work with large carabiners, and allow the lock sleeves to rotate through the holes without unclipping them
- Compact length for confined space rescue and awkward hauling
- Smooth rounded sides to prevent catching and snagging
- Built around a heat-treated axle and a sealed high efficiency ball bearing to ensure smooth rotation

98-535 \$94.50





### Sky Genie Canvas Storage Bags

Canvas storage bags for rope and equipment.

Up to 100 ft.	91-205	\$68.35
Up to 300 ft.	91-206	\$78.80
Up to 600 ft.	91-207	\$84.14
Equipment Bag	91-204	\$93.60



### PMI Rope Pack

- Double sewn seams
- 1,000 denier heavy coated Cordura, drawstring closure
- 1 in. tubular handles with rope insert
- 5/8 in. (16mm) grommet on the side of the bag
- Comfortable 2 in. wide webbing straps for carrying heavy ropes

L	91-614	\$55.35
XL	91-615	\$66.30
Gear Bucket	91-620	\$53.00



### Tool Bungee

Never again will you have to watch your squeegee or other tool crash to the ground.

- Triple thick heavy duty connector ring fasteners
- Connect one end to your tool, other end to a chair, harness etc.
- Swivel connector reduces twisting or binding
- Corrosion resistant materials



55-21 \$14.75

### PMI Gear Pocket

- Designed to organize pulleys, gloves, carabiners without overloading your gear loops
- Excellent for emergency kit use
- Internal mesh divider keeps gear organized
- Internal adjustable loops secure gear and prevents it falling out even while inverted.
- Top loading design makes for easy access



98-551 \$35.70

### Mini First Aid Kit

- One premium quality mini backpack
- One sting relief pad
- Three antiseptic towelettes
- Four alcohol prep pads
- Twelve 3/4 x 3 in. bandages
- Ten 3/8 x 1-1/2 in. bandages
- One 2 x 2 in. sterile gauze pad
- Two adhesive strips



55-35 \$6.10



We accept all major credit cards



100+ educational, informative and useful videos already up, and more being added all the time. Learn how tools work and go together. Learn time-saving techniques and much more. Visit regularly to see what's new: [www.jracenstein.com/videos](http://www.jracenstein.com/videos)

**Safety Cone Barricade System**

Protect your job site with these eye-catching cones. Bright yellow chain attaches easily from cone to cone.

- Square foot rugged 36 in. yellow cones
- Printed “Danger People Working Above”
- Easy to stack when not in use, only one square foot
- 12” base fits easily on stairs



**Complete Set = 5 Cones & 40 ft. of Chain - \$302.50**

The best defense from accidents is a good offense.

Safety Cones (ea.)	77-13	\$45.00	
Yellow Chain (20 ft.)	77-12	\$38.75	Save \$34.65 on 6+
Set of 5 Cones & 40 ft. of Chain	77-11	\$280.00	
Square Ring weights (ea.)	77-15	\$33.00	



**Square Ring Weight**  
• 9 lb. ring weight



**Yellow Safety Chain**  
• 2 in. yellow lightweight plastic chain  
• 20 ft in length

**Barricade Tape**

- Roll of 3 in. yellow tape 1,000 feet in length
- Printed in black lettering “Caution Men Working Overhead”
- Indoor/Outdoor use

One Roll	77-51	\$14.95	Save \$11.21 on 5+
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**Metal Safety Sign**

- Lightweight 20-gauge steel with flat baked enamel finish
- Folds flat for compact storage
- Carrying handles and hinges at top for easy moving and setup
- Double sided

77-31	\$76.50
-------	---------



**PMI Advantage Helmet**

- Industrial Kevlar head protection and plenty of detail oriented comfort
- Ratchet headband is easily adjustable
- Three-point chinstrap keeps the helmet on your head when you need it most
- Fits heads 20 to 25 in.



98-555	\$138.25
--------	----------

**Win Valuable Prizes**  
Help us celebrate our 100th Anniversary  
see page 5 for details







### Glacier Glove

- Neoprene Glove
  - Curved Fingers to reduce fatigue
  - Fleece Lined
  - Velcro wrist strap
  - Waterproof
- |     |        |         |
|-----|--------|---------|
| M   | 56-101 | \$37.00 |
| L   | 56-102 | \$37.00 |
| XL  | 56-103 | \$37.00 |
| XXL | 56-104 | \$37.00 |

### GLACIER GLOVE™



### Glacier Hypalon Perfect Curve

- Neoprene Glove
  - Curved Fingers to reduce fatigue
  - Hypalon palm for improved durability
  - Velcro wrist strap
  - Waterproof
- |     |        |         |
|-----|--------|---------|
| S   | 56-111 | \$39.50 |
| M   | 56-112 | \$39.50 |
| L   | 56-113 | \$39.50 |
| XL  | 56-114 | \$39.50 |
| XXL | 56-115 | \$39.50 |



### Glacier IceBay

- Neoprene Glove, fleece lined for warmth, textured palm, waterproof.
- |     |        |         |
|-----|--------|---------|
| M   | 56-156 | \$23.75 |
| L   | 56-157 | \$23.75 |
| XL  | 56-158 | \$23.75 |
| XXL | 56-159 | \$23.75 |

NEW 09



### Kenai All Sport Glove

- Neoprene Glove
  - Textured Palm
  - Waterproof
- |     |        |         |
|-----|--------|---------|
| M   | 56-121 | \$19.50 |
| L   | 56-122 | \$19.50 |
| XL  | 56-123 | \$19.50 |
| XXL | 56-124 | \$19.50 |



### Kenai Curved Full-Finger Glove

- Neoprene Glove
  - Curved Full Finger
  - Fleece Lined
- |     |        |         |
|-----|--------|---------|
| S   | 56-131 | \$21.00 |
| M   | 56-132 | \$21.00 |
| L   | 56-133 | \$21.00 |
| XL  | 56-134 | \$21.00 |
| XXL | 56-135 | \$21.00 |



### Aquaseal

- Repair neoprene gloves
  - Adhesive and sealant, 1 oz.
  - Outstanding adhesion, flexibility and convenience
- |       |        |
|-------|--------|
| 56-51 | \$7.90 |
|-------|--------|



### Alaska Winter Glove

- 100% waterproof
  - Granulated non-slip surface
  - Removable plush liner
- |    |       |         |
|----|-------|---------|
| L  | 56-33 | \$27.75 |
| XL | 56-34 | \$27.75 |



### Polypropylene Liner

- Breathable
  - Wicks away moisture from your skin
  - Fast Drying
  - Knit liner recommend for layering
- |    |        |        |
|----|--------|--------|
| M  | 56-151 | \$6.90 |
| L  | 56-152 | \$6.90 |
| XL | 56-153 | \$6.90 |



### Sun Cap with Shade

- Cap with built in retractable sun-shade to protect your neck and ears
  - Drop down shade tucks into crown when not needed
  - Underside of brim is dark blue to reduce glare
  - Provides 30+ UPF sun protection
- |        |         |
|--------|---------|
| 56-198 | \$17.50 |
|--------|---------|



### Safari Hat w/ Removable Shade

- Nylon Taslon material is breathable for cool comfort
  - Wide brim for extra protection from sun
  - Provides 30+ UPF sun protection
  - Removable shade
- |        |         |
|--------|---------|
| 56-196 | \$27.00 |
|--------|---------|



### Universal Shade

- Fits over any standard baseball cap and most brimmed hats
  - Provides 30+ UPF sun protection
- |        |         |
|--------|---------|
| 56-197 | \$11.00 |
|--------|---------|



You know the old saying, "You never get a second chance to make a first impression." J. Racenstein has been helping window cleaners make a good impression for years. The items on this page could get you a job from your customer's neighbor; always look your best.



**White Tee Shirt**

- "3 Window Cleaners" featured on the back
- Front breast pocket with "3 Window Cleaners" logo
- Pre-shrunk 100% cotton

M	57-131	\$17.50	<i>Save \$25.20 on 12+</i>
L	57-132	\$17.50	<i>Save \$25.20 on 12+</i>
XL	57-133	\$17.50	<i>Save \$25.20 on 12+</i>
XL	57-134	\$21.00	<i>Save \$30.24 on 12+</i>



**Navy Tee Shirt**

- "Professional Window Cleaner" in gold on front and back
- 50/50 Cotton/Polyester

S	57-111	\$15.50	<i>Save \$22.32 on 12+</i>
M	57-112	\$15.50	<i>Save \$22.32 on 12+</i>
L	57-113	\$15.50	<i>Save \$22.32 on 12+</i>
XL	57-114	\$15.50	<i>Save \$22.32 on 12+</i>
XXL	57-115	\$19.95	<i>Save \$28.73 on 12+</i>



**3 Dudes Shirt**

- Professional navy 2 button short sleeved shirt
- Three color embroidered "3 Window Cleaners" logo
- Reinforced breast pocket
- 50/50 Cotton/Polyester

M	57-101	\$30.50	<i>Save \$43.92 on 12+</i>
L	57-102	\$30.50	<i>Save \$43.92 on 12+</i>
XL	57-103	\$30.50	<i>Save \$43.92 on 12+</i>
XXL	57-104	\$35.50	<i>Save \$51.12 on 12+</i>

**Professional Window Cleaning Patch**

- Attractive color patch can be sewn on to shirts, jackets, etc.
- Large size 8 x 10 in., very noticeable
- Small size 2 x 3 in.
- Smooth, silk-like stitching

Large Patch 57-01 \$3.75



**Protective and Skid-Resistant Shoe Covers**

Send a message of professionalism to your customers

- Protect carpets, hardwood floors from workers boots
- Features a skid resistant non-latex pattern printed on the bottom
- Durable cotton/poly spun material
- Ankle height w/ elastic
- 100 per pack

L	55-31	\$15.50
XL	55-32	\$16.50



**Coveralls**

Elastic wrist and ankle bands. 25/pkg.

L	55-41	\$56.95
XL	55-42	\$56.95
XXL	55-43	\$56.95



**Splash-Guard**

Tired of getting wet pant legs from your bucket-on-a-belt, rags and scrubbers? The new Splash-Guard, designed by a window cleaner, solves these problems. Now you can end the day with dry pants, and no rash. Holster not included.

- Durable clear plastic takes a beating
- Stainless steel alligator clips secure it to your belt
- Grommets at the bottom to tie around your leg

One	55-26	\$5.00	<i>Save \$3.00 on 5+</i>
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**NEW09**

**Drip Guard**

Never drip soapy water on a customer's floor again. This absorbent foamy end-cap fits snugly on all buckets-on-belts catching all your drips. When you are done simply wring it out and get back to work.

55-27	\$7.95	<i>Save 3.98 on 5+</i>
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**ChillOut Head and Neck Bands**

- Instant heat relief
- Simply soak in water and use
- Machine washable
- UV-resistant
- High abrasion resistance
- Environmentally friendly

Head Band	56-01	\$5.25
Neck Band	56-02	\$4.95



green prices mean **BUDGET \$TRETCHED** savings for you

*The Opportunity - Many window cleaners offer some janitorial services in addition to their main services. You may also find the need to remove water from a floor surface, especially after using water-fed pole equipment. The tools on these pages come from manufacturers you are already familiar with so you know you can trust their quality.*



**SmartColor Nifty Nabber**

- Ergonomic handle minimizes wrist strain
- Keeps hands away from hazards
- Powerful fingers grip and firmly hold small objects

18 in.	207-101	\$32.50
36 in.	207-102	\$29.25
51 in.	207-103	\$32.90
96 in.	207-104	\$58.65



**30" Heavy Duty 2-Ply Foam Squeegee**

- Removes standard volumes of water from uneven floor surfaces
- Available with socket clamp or installed Acme Insert

With Clamp	355-120	\$16.60
With Acme	355-121	\$22.75



**24" Heavy Duty Floor Squeegees**

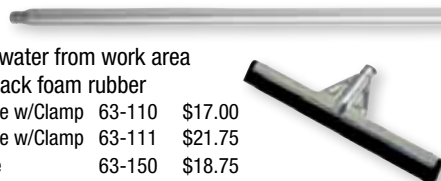
- Move large volumes of water, etc. on coated/uncoated smooth floors
- Replaceable rubber blades with premium black rubber or high performance red neoprene rubber for oil/chemicals/acid resistance

Straight	355-102	\$25.00
Curved	355-105	\$29.85



**Unger Water Wand**

- Easily clean residual water from work area
  - Heavy duty natural black foam rubber
- |                                   |        |         |
|-----------------------------------|--------|---------|
| 22" w/Acme Straight Blade w/Clamp | 63-110 | \$17.00 |
| 30" w/Acme Straight Blade w/Clamp | 63-111 | \$21.75 |
| 58" Pro-Aluminum Handle           | 63-150 | \$18.75 |



**Floor Squeegee Handles**

- 56" has fluted aluminum handle with an ergonomic grip
- For use with Push Pull, Water Wand squeegees and other products with a 1.5 taper socket

- 58" has straight handle with an Acme threaded zinc alloy tip
- For use with Aquadozer with Acme insert, Acme threaded Water Wands and Sanitary floor squeegees

56"	356-101	\$17.00
58"	356-102	\$17.00



**Long Handle Scrapers with Blades**

- 4" Blade removes gum, stickers, wax build-up and caked-on dirt
  - 8" Blade strips tile floors, remove carpets & heavy-duty adhesives
  - Scraper heads are angled for better performance
  - Reversible blade: one side razor-sharp, one side blunt
- |                     |         |         |
|---------------------|---------|---------|
| 48" Handle/4" Blade | 35-23   | \$20.00 |
| 4" Blades (10)      | 36-21   | \$7.55  |
| 60" Handle/8" Blade | 363-103 | \$46.45 |
| 8" Blades (10)      | 364-105 | \$21.25 |



**We accept all major credit cards**

**We have warehouses in CA and NJ to save you time and money.**

**11 in. Swivel Pad and Holder**

The 11" pad and holder is perfect for the detail cleaning of floors and walls. The swivel handle allows for ergonomic and easy use.

11 in. Microfiber Pad	350-165	\$4.90
Swivel Pad Holder	362-160	\$8.95
3 - 7 ft. Aluminum Handle	350-162	\$11.75



**IPC Pulex**



**Long Handle Floor Scraper**

Scraper	363-110	\$13.25
Blades (10)	364-110	\$4.60



**Long Handle Floor Squeegees**

Double blade will removed water and soil from the deepest cracks and uneven surfaces. Heavy duty mineral-fiber reinforced plastic.

22 in. Black	355-167	\$8.25
22 in. White	355-172	\$8.25
22 in. Red	355-177	\$8.25
18 in. Heavy Duty	355-180	\$5.65
22 in. Heavy Duty	355-181	\$6.65
30 in. Heavy Duty	355-182	\$10.50



**40 in. Nipper Reacher**

Ideal for picking up debris both indoors and out.  
207-110 \$24.50





green prices mean savings for you **BUDGET \$TRETCHER**

**Long, Heavy Duty Floor Scraper**

Removes gum, tape and grit. Reduces back and knee strain. 48" handle. Angled head. 363-115 \$18.00



**Galvanized Floor Squeegee**

Easily push large volumes of water. Rustproof and economical. Rugged steel-scraping edge. Replaceable neoprene blade.

24" Curved	355-206	\$28.00
36" Curved	355-207	\$39.25
60" Handle	356-204	\$6.20

**32" Grip 'N Grab**

Great indoors and out. Comfortable handle and rubberized jaws. Articulating head turns 90 degrees. Rustproof. 207-115 \$19.50



**Wipe'N Dry Floor Squeegee**

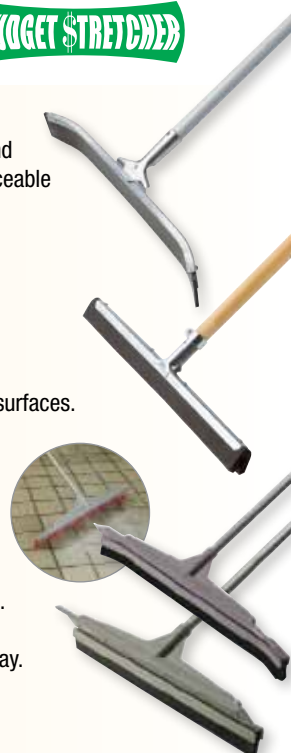
98% closed-cell rubber digs deep into irregular surfaces. Nothing stops this squeegee.

22"	355-211	\$9.55
30" w/Guard	355-212	\$17.00

**Hydro Squeegee**

Six high-pressure jets blast away dirt and debris. Quick connector fits standard water hose. Foam blade conforms to surface and pushes water away.

24" Straight Black	355-200	\$53.75
30" Curved Black	355-202	\$57.00



**Heavy Duty Floor Cleaner**

- Cleans embedded deposits of grease, oil and tire residues
- Highly concentrated 8 ounces to 20 gallons of water
- Spray on and mop or use with a power washer

Gallon	319-601	\$27.25	Save \$10.90 on 4+
5 Gallons	319-603	\$127.50	



**G-Force**

Enzyme-Based Concrete Cleaner

- Effective, safe, heavy-duty for concrete & other surfaces
- "Green" yet effective as solvent cleaners
- Spray & rinse most surfaces, scrape porous surfaces

Gallon	320-601	\$39.00	Save \$18.72 on 4+
5 Gallons	320-603	\$185.25	



**Trio Plus**

- Remove odors and stains caused by organic waste
- Clean human or pet waste, oil, grease and fats or proteins
- Safe for your rugs, carpets or sofas
- Enzyme cleaning and stain removal that absorbs and eliminates odors from urine, milk, feces, vomit and any other organic odors
- Spray on, no scrubbing or brushing required

Gallon	245-601	\$23.25	Save \$9.30 on 4+
--------	---------	---------	-------------------



**Magic Touch Universal Spot Remover**

- Easy-to-use, fresh smelling spotter that removes 95% of the stains found in homes, offices and even cars
- Removes ink, paint, grease, coffee, beverages, food spills and most protein and oil based stains instantly
- Pour or spray on and massage or brush in, then blot or extract excess with vacuum

Gallon	245-604	\$25.00	Save \$10.00 on 4+
5 Gallons	245-606	\$113.75	



**NevrDull Concrete Cleaner**

- Non-toxic, biodegradable, environmentally preferable
- Non-caustic, non-corrosive and hypoallergenic
- Removes oil, grease, grime and mildew from concrete, asphalt and stone
- Ideal for use on driveways, patios, floors, sidewalks, statues, garages and factories
- Can be used in power washers
- Natural enzymatic, microbial-based formulation
- Renewable plant-based formula, phosphate-free, no glycol ether, ozone-save, phthalate-free

Gallon	320-611	\$58.00	Save 23.20 on 4+
5 Gallons	320-615	\$260.00	



**NevrDull Floor Cleaner**

- Use on wood, vinyl, laminate, linoleum and tile
- Penetrates and lifts grease, dirt and grime
- Gently cleans, leaving a beautiful luster
- No harmful residue
- Biodegradable, phosphate-free, no glycol ether, ozone-save, phthalate-free
- Natural formula safe to use around people and animals
- Hypoallergenic, highly effective
- Renewable, plant-based formula

Gallon	319-611	\$52.00	Save 20.80 on 4+
5 Gallons	319-615	\$229.00	



**Bird Control** is a great add-on for professional window cleaners. Bird Barrier can help you make extra money:

- Technical Support
- On-site Visits and Training
- Training (technical, sales, more)
- Shipping from both Coasts

Call for a free 52-page catalog  
800-NO-BIRDS



**Become an Expert**

Log on to [www.birdbarrier.tv](http://www.birdbarrier.tv) and watch our comprehensive installation videos.



**Bird-Shock Flex-Track** conditions birds to stay away permanently. It is ideal for any surface (flat or curved) where total exclusion and low visibility are key; roof peaks, parapets, beams, ledges etc. It is effective against all bird species and all pressure levels. Made from UV stabilized PVC and stainless steel, Flex-Track will be on the job for many years.



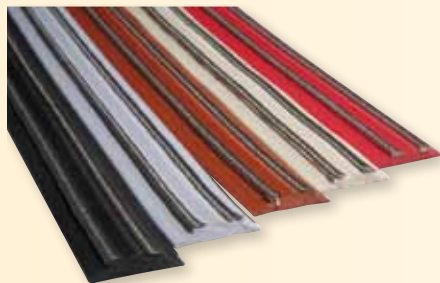
We carry the full line of track, chargers, connectors and tools.



Bird Barrier's Quick-Connectors are used to bridge a 6-inch gap in these concrete decorative features.



These decorative fins were a favorite roost for about 100 pigeons. Two rows of Flex-Track cleared them off.



**Bird-Shock Flex-Track**

The tracks come in 50-foot lengths and in multi-roll kits for greater economy. Each roll includes 11 Straight Connections and 9 Corner Connections, which will accommodate normal applications.

- |           |                 |
|-----------|-----------------|
| Black     | BS-FB50/733358  |
| Beige     | BS-FBG50/733360 |
| Brick Red | BS-FR50/733359  |
| Gray      | BS-FG50/733361  |
| Sign-Red  | BS-FSR50/646025 |

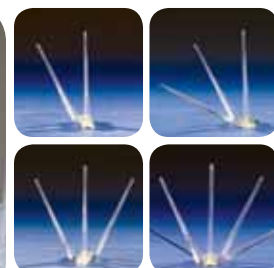
**Bird-Flite Spikes** are ideal for ledges, parapets, signs, beams, pipes, chimneys, cut-outs, security cameras, lights, etc. They are effective against pigeons and larger birds. They are made from stainless steel and polycarbonate. Glue the base to the surface using Bird Barrier Bond.



Bird-Flite is sold by the foot. Narrow & Wide case qty. = 100 ft. Xtra-Wide case qty. = 50 ft.

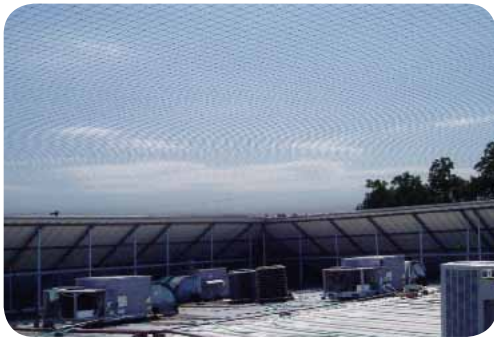
- |                  |                |
|------------------|----------------|
| Narrow 2-1/2 in. | BP-F100/654109 |
| Wide 5 in.       | BP-F200/654108 |
| Xtra-Wide 8 in.  | BP-F300/665677 |

**Polly-Spikes** are ideal for ledges, parapets, signs, beams, pipes, chimneys, cut-outs, security cameras, lights, etc. They are effective against pigeons and larger birds. They are made from polycarbonate. Glue the base to the surface using Bird Barrier Bond.



- |            |               |
|------------|---------------|
| 2 in. Wall | BP-B20/655988 |
| 4 in. Wall | BP-B40/639853 |
| 5 in.      | BP-B50/636465 |
| 8 in.      | BP-B80/654345 |

**StealthNet** is the leading bird control netting in the US. It can keep birds from any enclosed or semi-enclosed area where pest birds are to be excluded; including open beam structures, loading docks, building façades, courtyards, bridges etc. By using the correct mesh size all bird species can be excluded. Made from high-density polyethylene, StealthNet is UV stabilized and will last many years.



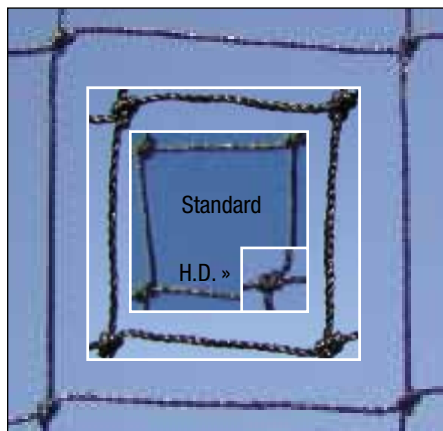
StealthNet over this rooftop machinery keeps the entire area bird-free.



The pipes and beams on the underside of this bridge are sealed off by StealthNet.



Bird Barrier carries the entire line of hardware, tools and fittings to ensure a professional, long lasting installation. Call for a catalog, 800-NO-BIRDS.



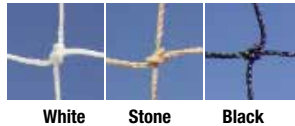
**Mesh Sizes:**

- 2"** Pigeons and larger birds
- 1-1/8"** Starlings, grackles, blackbirds, etc.
- 3/4"** Sparrows, swallows & other small birds

Bird Barrier offers standard sized nets:  
 25 x 25 ft., 25 x 50 ft., 25 x 75 ft.,  
 50 x 50 ft., 50 x 75 ft., 50 x 100 ft.,  
 100 x 100 ft., 100 x 200 ft.

*We also custom-cut nets; call for a quotation.*

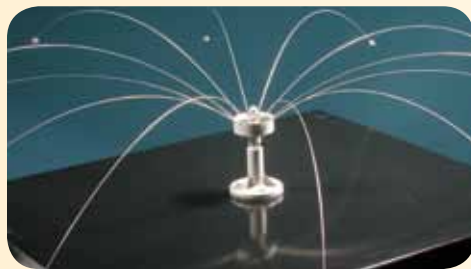
**StealthNet Colors**



**BirdSlide** blocks birds off any ledge with a back wall; just glue it in place and watch the birds "slide" off (even from heavy nesting roosts). Available in gray or beige, but can be painted any color. Covers a 6" wide ledge. Trim for narrower ledges, or add an extension for wider ledges. Comes in four-foot lengths.

BirdSlide Beige (52 feet)	SL-B00
BirdSlide Gray (52 feet)	SL-G00
Beige Extensions (52 feet)	SL-B20
Gray Extensions (52 feet)	SL-G20

**Daddi Long Legs** protects flat areas like rooftops, AC units and streetlights, from pigeons and larger birds. Made from stainless steel and Delrin. Glue or screw the rotating base to the surface.



4 ft. DLL (ea.)	DD-4000
6 ft. DLL (ea.)	DD-6000
8ft DLL (ea.)	DD-8000
DLL PVC Base (ea)	DD-B100
DLL Boat Base (ea.)	DD-B105
DLL Sandbag Base (ea.)	DD-B110
DLL Boat Railing Mount	DD-B115

< A sea of Daddi Long Legs saved this office building's roof; it used to be white w/seagull droppings & feathers.

**Open Space Bird Control**

Controlling Birds in open spaces can be difficult, expensive and time consuming. Bird Barrier has developed two products that deter birds from areas such as courtyards, resort pool areas, outdoor dining areas, agricultural fields and warehouses.



**Eagle Eye** is an optical bird scarer that harmlessly deters birds from unwanted areas by making use of light beams reflected from direct sunlight or artificial light. The reflective pyramid rotates via an electric motor, sending the beams around in a menacing pattern. The light spectrum reflected back by the Eagle Eye disorients birds in flight by limiting their vision significantly. This causes the bird to deviate in flight and fly to another destination.



**AviHaze** is non-lethal; controlling birds via behavior modification; AviHaze sweeps birds from the treated area using a haze of FogForce® without impacting the use or operation of the facility. The system is modular, the components are easily placed where you need them, often the compressor is hundreds of feet away in an equipment enclosure. A small building might use one AviHaze Module, large industrial plants or public attractions could place dozens of modules.





**AWNING RESTORATION** - A two-step process for cleaning and restoring awnings which have become badly soiled or neglected by the sun's rays, airborne pollutants or run-off from the building.

**STEP 1** The awning will need cleaning. If the awning has been neglected for some time, it's best to use Winsol DEEP CLEAN to remove deeply embedded soils and restore the natural appearance of the awning. When used with the Tucker X-Pole, one gallon of DEEP CLEAN will cover approximately 6,000 to 8,000 sq. feet. DEEP CLEAN can be used on vinyl and fabric material awnings.

**STEP 2** When the dirt or stains have been removed from the awning, it is best to protect the awning with AWNING ARMOR to penetrate and replace the important plasticizers that keep vinyl awnings soft, supple and as colorful as the day it was installed. This will greatly improve the appearance of the awning as well as providing increased protection against the effects of the sun, rain and airborne pollutants. When used according to instructions, AWNING ARMOR will also increase the life expectancy of the awning. AWNING ARMOR must be applied by hand or by using a strip washer on a pole. AWNING ARMOR can be applied immediately after washing and rinsing with DEEP CLEAN. One gallon will treat approximately 8,000 to 12,000 sq. feet. AWNING ARMOR can only be used on vinyl type awnings.

If the awning is not badly soiled or worn from the sun and rain, Winsol AWNING CLEANER & PROTECTANT can be used as a one step restoration process. Use it with a Tucker X-Pole system to quickly and effectively remove light stains and dirt and leave a protective finish. AWNING CLEANER & PROTECTANT can also be used several months after using DEEP Clean and AWNING ARMOR to provide the same results. (may vary depending upon the location of the awning). One gallon bottle will cover approximately 10,000 sq. feet when used with the Tucker X-Pole system. AWNING CLEANER & PROTECTANT may only be used on vinyl type awnings.

**NOTE** If the awning you want to clean is acrylic fabric or canvas, use DEEP CLEAN first to remove the soil. Follow this cleaning by using Winsol AWNING GUARD 690 PLUS to repel water and stains. AWNING GUARD 690 PLUS was specifically designed to protect all types of woven fabrics (both man made and natural fibers). AWNING GUARD 690 PLUS will provide durable protection effectively for up to one year with proper application and maintenance. Must be applied by hand and one gallon will treat approximately 1,000 sq. feet.

**Tucker X Method Detergent Dispenser**



Dema Injector Complete

DEEP Clean can be applied by using the Tucker X-Pole system. Connect one of the hoses to a water source and the other hose into the chemical. The DEMA valve will mix the right amount of DEEP CLEAN with the water for the exact solution. See page 46.

\* Dispenser can be used with a C Method pole if the hoses are reversed at the top of the pole.



### Deep Clean

#### Awning Appearance Restorer

- Safe for removing most heavy soils and streaking
- Powerful Cleaning without pulling color from inked awnings.
- Restores original beauty
- Effective on both vinyls and woven fabrics
- Completely goof-proof, won't harm the most delicate of fabrics
- Can be applied using water-fed pole systems
- One gallon covers 6,000 - 8,000 sq. ft.



Gallon	88-641	\$52.76	Save \$25.32 on 4+
5 Gallon Pail	88-645	\$206.75	

### Awning Armor Vinyl Protectant

#### Factory Gloss Formula

- Increases awning life and prevents sun damage to inks and dyes.
- Restore suppleness, color, UV protection and reintroduce lost plasticizer.
- Maximizes protection from sun, birds, run-off and all types of pollution
- Makes future cleanings easier and more profitable
- Can be applied by hand or strip washer on a pole.
- One gallon covers 8,000 - 10,000 sq. ft.



Gallon	88-611	\$69.00	Save \$33.12 on 4+
5 Gallon Pail	88-615	\$263.95	

### Cleaner and Protectant

#### One-Step Vinyl Maintenance System

- Designed for light to moderately soiled vinyl fabrics.
- Cleans all vinyls quickly and easily
- Helps reduce color loss and fading while reintroducing lost plasticizer and UV protection.
- Helps maintain vinyl suppleness and increase its effective life span
- Can be applied using water-fed pole systems
- One gallon covers 10,000 sq. ft.



Gallon	88-621	\$39.50	Save \$18.96 on 4+
5 Gallon Pail	88-625	\$157.00	

### Awning Guard 690 Plus

#### Moisture and Stain Repellent

- Water and stain repellency for any type of woven outdoor fabric
- Durable protection: does not wash out or discolor
- Makes more difficult for soils or moss and mold to enter the fabric weave.
- Stops stains before they can start
- Can be applied by hand.
- One gallon will treat approximately 1,000 sq. ft.



Gallon	88-631	\$75.50	Save \$36.34 on 4+
5 Gallon Pail	88-635	\$340.75	

green prices mean savings for you



**Green Seal Certified**

**Jaws 3421**

A specially formulated glass, plastic and CRT cleaner designed for use on glass, Lexan, Lucite, mirrors, menu boards and other surfaces not harmed by water.

- Combination of soil-suspending detergents, and wetting agents to quickly remove soil smudges, grease and finger prints without streaking
- Anti-static to repel airborne dirt
- USDA-C1 Equivalent, pH 7.8

Spray Bottle & 1 Cartridge 84-706 \$4.95  
6 Cartridges 84-707 \$9.00



**Jaws 3910**

This powerful Spray & Wipe Degreaser Cleaner combines powerful grease cutting agents with a unique vandalism mark remover to eliminate problem soils and permanent ink marks.

- Residue-free spray and wipe cleaner
- Removes work station soil buildup, inks from table tops, countertops, walls, and everyday grease, grime, oils, and lubricating compounds
- USDA-C1 Equivalent, pH 12

Spray Bottle & 1 Cartridge 85-706 \$4.95  
6 Cartridges 85-707 \$10.00



**HydrOxi Pro Concentrate**

HydrOxi Pro® Concentrated oxidizing multi-purpose cleaner, degreaser and deodorizer for hard, non-porous surfaces. Four versatile dilutions satisfy all general cleaning needs in any environment.

- All-purpose cleaner
- Attacks grease with low residue
- Streak-free glass cleaning
- Restores grout without harsh acids
- Complete carpet care program
- Eliminates odors
- Low V.O.C.'s for improved air quality

Gallon 84-733 \$20.15 *Save \$4.84 on 4+*  
8 oz. Measure Cup 84-740 \$1.50  
Portion Aid Kit 84-741 \$4.60



**HydrOxi Pro Grout Smart**

Grout Smart is a unique solution of natural orange oil, hydrogen peroxide and surfactant technology that safely renovates, cleans and maintains hard surfaces. Easily remove heavy build up of soapy residue left behind by the competition.

- For use in: Auto-scrubbers, Steamers, Pressure Sprayers, Extraction Machines
- Maintainer and Cleaner for tile, grout, marble and stone, windows, mirrors, walls, floors, bathrooms, shower rooms, tile & grout, carpet and kitchen.

Gallon 84-736 \$17.35 *Save \$4.16 on 4+*



*Designed for the Environment US EPA*

**Green Logic Glass & Surface Cleaner**

- Environmentally sound formula uses no 2-butoxyethanol, alcohol or ammonia
- Eliminates the need to have a separate glass cleaner and surface spray
- Streak-Free
- Biodegradable
- Non-Toxic
- Phosphate-free

Gallon 84-731 \$16.10 *Save \$3.80 on 4+*



**Green Logic Degreaser**

- Fast-acting cleaner and degreaser combines green emulsion surfactants to handle tough cleaning
- Removes oil residue and hydrocarbon buildup such as grease, motor oil, tar, fuel, fats and heavy soil
- Non-flammable
- Non-corrosive
- Biodegradable
- Phosphate-free

Gallon 85-732 \$19.00 *Save \$7.60 on 4+*



*Environmentally Sound*

**HydrOxi Pro Power Safe Degreaser**

Heavy duty cleaner and degreaser

- Uses Hydrogen Peroxide combined with orange oil and wetting agents
- Helps reduce contaminants
- Cleans, degreases and destroys tough odors
- Safe for all surfaces
- For use on: ovens, ranges, refrigerators, microwaves, stainless steel, chrome, cabinets, countertops, ceramic tile, porcelain, floors, walls, fiberglass and more!

Gallon 85-731 \$17.35 *Save \$4.16 on 4+*



**HydrOxi Pro MineralX**

Safer, reduced toxicity alternative to harsh acid-based mineral cleaners.

- Removes hard water build up, rust and soap scum from hard surfaces using organic salt and degreasing agents
- Non-Corrosive to skin
- Biodegradable and Non-Fuming
- For use on: showers, tubs, ceramic tile, grout, toilets, sinks, urinals, stainless steel, polished metal, porcelain, fiberglass, glass, brick and stone.
- Non-regulated for shipping, handling and storage

Gallon 85-733 \$12.00 *Save \$4.80 on 4+*



Sadly, graffiti is a part of urban life and these vandals use a growing arsenal of methods to mark the surfaces; but like most problems on buildings graffiti creates an opportunity to the window cleaner that services the account. Read the product descriptions below to learn how you can make money removing graffiti and protecting against future attacks.

# NEW09

### WipeOut Porous Surface Graffiti Remover

A biodegradable graffiti remover designed to remove heavy graffiti from all "porous" surfaces i.e. brick, mortar, cement, stucco and natural stone surfaces like granite, marble, sandstone or brownstone.

- Non drip formula clings to surface longer
- Removes spray paint, marker, pen, ink, shoe polish
- Removes adhesives, caulking, epoxies, urethanes
- Apply full strength with brush, roller or sprayer
- Let sit 15 minutes if power washing
- Let sit 30 minutes using nylon brush to agitate
- Approximately 100-150 sq. feet per gallon



Quart	82-256	\$20.40	
Gallon	82-251	\$60.00	Save \$12.00 on 4+
5 Gallons	82-255	\$280.50	

### LiftAway Graffiti Remover

A citrus based formulation that is biodegradable and environmentally safe. Removes most types of graffiti and stains from masonry, concrete, glass, terrazzo, metal and other surfaces

- Works on spray enamels, markers, inks, crayons, etc...
- Entire process is less than 15 minutes
- Simply apply, agitate and rinse
- Coverage is 60-70 sq. feet per gallon
- Aerosol is ideal for glass, signs, plastic, postal boxes, desks, bathroom partitions, traffic lights, poles and control boxes, playground equipment
- Spray directly onto the surface, let it sit, use nylon brush to agitate, rinse with hose
- Coverage is about 200 sq. feet per gallon



12.5 oz. Aerosol	82-266	\$13.00	
Gallon	82-261	\$61.20	Save \$12.24 on 4+
5 Gallons	82-265	\$280.50	

### LiftAway Wipes

Removes tough graffiti including enamel. It is non toxic, non flammable, non hazardous and a biodegradable formula.

- Towels are odorless, no harmful fumes
- Towels stay moist for greater usage
- A slight abrasive aids in cleaning and yet is non scratching
- Works on hard surfaces like: bathroom partitions, lamp posts, desks, road signs, phone booths, bus stops and seats, wall tile, aluminum siding, stainless steel, and lockers
- Blot area with wipe, let stand 20-40 seconds, scrub in circular motion, wipe away residue with a clean cloth



30 pack	82-267	\$13.50	
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### Graffiti Barrier Coating Kit

A two component, non-sacrificial, waterborne polyurethane coating provides protection against graffiti, harsh chemicals, solvents, chalking and severe environmental elements. Formulated with unique resin chemistry and Dupont Zonyl Fluro additive for superior abrasion resistance, long term beading and repellency properties.

- Makes graffiti removal faster on brick, concrete, stucco, copper, brass, aluminum, wood, plastic, and painted surfaces
- Suitable for interior and exterior applications.
- Will resist environmental and weather related exposures
- A two-coat treatment is recommended for porous surfaces
- Simple to use, mix two parts together, pot life is 4 hrs.
- Apply with brush, roller or sprayer
- Coverage is 325 sq. feet per gallon



*DROP-SHIP AND SPECIAL ORDER ONLY DUE TO SHORT SHELF LIFE*

Gallon	82-270	\$158.10	Save \$31.60 on 4+
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### Vandal-X Graffiti Remover

**Smooth Surfaces:** Removes ballpoint ink, wax build-up, stencil marks, grease, chalk, fingerprints, spray paint, magic marker, lipstick, crayon, graphite.

**Porous Surfaces:** Removes paint, enamel, shellac, inks, grease, lipstick, crayons and wax build-up. Also removes carbon residue after a fire.

For Smooth Surfaces	89-818	\$10.05
For Porous Surfaces	89-819	\$12.25



green prices mean savings for you



## Catch the Wagon

The Window Wagon tours the country showing window cleaning equipment to you. Call us if you'd like a visit from J. Racenstein's fully stocked vehicle and training specialist.





*PowerBoost is formulated to save you time and energy. An invisible barrier helps repel dirt, bird grime, and pollution for a long lasting, clean finish. This new technology causes water to sheet away, allowing the solar panel to dry with minimal or no water spots. It's a cleaning solution containing high powered surfactants, which can increase the solar panel's power output. It's easy to use, fast, and convenient. Leaves an incredible clean and virtually spot free surface. Biodegradable and Ph balanced, will not harm the environment. When used with cold water, does not damage gaskets or junction boxes. Super concentrated formula washes up to 100kW of solar panels.*

NEW09



#### Top Ten Reasons for Window Cleaners to clean solar panels

1. Solar Panels have, and will continue to become more and more common on rooftops.
2. Panels must be clean and free of debris so that they can produce as much energy as possible.
3. Window cleaners are already great at keeping glass spotless.
4. Adds a new line of business for window cleaners who already have the required skills and the majority of the required tools.
5. Window cleaners will enjoy very low overhead to set up an additional revenue stream.
6. It allows window cleaners to market themselves as environmentally conscious companies.
7. Most homeowners do not want to climb up on their roofs to clean panels.
8. Most window cleaners are seeing solar panels on at least some of their existing clients' roofs.
9. It is a simple up-sell to an existing client to suggest washing panels while the windows are being cleaned.
10. According to USA today energy prices are surging by at least 30% making the energy produced by panels even more valuable.

We would recommend charging about 20% more than a typical window cleaner would ask for a skylight. This would cover the use of the required safety equipment and allow a higher price because of the high profile nature of the panels. A frame work of price per kilowatt might be helpful so the cleaners could charge more for larger systems. A typical home has around four to five kilowatts of panels on the roof which is approximately 300 square feet of glass. This method would require very little labor to clean the system well.

#### PowerBoost Solar Panel Cleaner

Solar panels need to be clean and free of debris to provide maximum output. Designed specifically for solar panels; the proprietary PowerBoost® formula cleans quickly and easily for just pennies a panel and leaves an invisible coating which repels dust, dirt, and air-born pollution for a long-lasting clean. The high-foaming, touchless cleaning solution contains high-quality, biodegradable surfactants.

1 Gallon	#89-70	\$76.50	Save \$30.60 on 4+
Applicator	#89-72	\$77.00	

**Directions:** Attach spray applicator to a garden hose. Use foaming wand for close-up application, or remove for longer distances. Spray foam evenly over entire solar panel and allow to sit for a few minutes. Using the brass quick release, remove the PowerBoost reservoir and rinse thoroughly with water. Air dry to leave a spot free, protective finish.

“Solar panel cleaning is extremely important to achieve maximum output of a solar electric system,” said Dr. Patrina Eiffert, CEO, SolarFrameWorks. “The financial impact of a clean solar panel is immediate. More electricity produced by the solar panels means less dollars billed by the utility company and a direct savings to the owner. During this time of year, when solar systems generate the most power due to air conditioning usage, cleaning maintenance is especially important.”



\$

NEW09

Glass, stainless steel, marble and other porous surfaces can be cleaned and coated with a durable protective shield that resists stains, fingerprints and hard water stains. Glass protected with 386 Nanotech's sealant will bead water, and hard water markings simply wipe away with a damp cloth. Working at the molecular level, the particulates are self organizing and form a hypo-retardant barrier; all the porous areas are effectively sealed and bonded, resisting any penetration of water or other particles. The Cleaner and Sealant kits below can be applied to a variety of surfaces and offer the window cleaner additional profit potential.

**Micro-Splitting Multi-Purpose Cleaner**

- Biodegradable and non-toxic
- Excellent as a daily cleaner for all surfaces such as granite, stone, concrete, glass, mirrors, and metals
- Leaves a streak free shine and is used as a pre-cleaner for some of the sealant products
- Creates an optimal clean surface for 386 sealants to adhere
- Splits and prevents the dirt and salts so they are not able to reattach, leaving a squeaky clean surface

16 oz. 82-210 \$9.95 **Save \$3.98 on 4+**  
 32 oz. 82-211 \$19.00 **Save \$7.60 on 4+**



**Stainless Steel and Glass Cleaner**

- Biodegradable and non-toxic cleaner
- Removes years of buildup on stainless steel from chemicals and oily cleaners
- Remove watermarks, fingerprints, salt buildup and light etching from glass surfaces.
- Use as a pre-cleaner to the Stainless Steel or Glass Sealants to create a neutral surface for best possible seal
- Covers 700 - 1,000 square feet

32 oz. Cleaner 82-217 \$25.00 **Save \$10.00 on 4+**



**Stainless Steel and Chrome Sealant**

- Perfect for use in commercial and residential settings on stainless appliances, counter tops, backsplashes, chrome in and around showers, and any shiny stainless surface
- Contains no silicone, acrylics, PTFE's
- UV stable and will not peel or discolor
- Reduces the amount of cleaning time and effort
- Seals for up to 3 years

32 oz. Sealant 82-216 \$175.00 **Save \$70.00 on 4+**



**Tumbled and Porous Stone Sealant**

- Water-based and green for use indoors and outside
- Perfect for use in commercial, industrial, and residential settings. Use on sidewalks, patios, parking decks, bridges, pool decking, pavers, brick, concrete and stone surfaces, cultured stone, and architectural elements.
- Creates an easy to clean surface. Easily remove dirt and debris with low pressure water or a sponge.
- Helps prevent chloride ingress, efflorescence, freeze thaw damage
- Helps resist staining from leaves, tree sap, oil, etc.
- Helps prevent bacteria, mold and mildew growth
- Contains no silicone, polymer, acrylic or PTFE's
- UV stable and will not peel or discolor
- Seals for up to 10 years
- Covers 700 - 1,000 square feet

32 oz. Sealant 82-225 \$150.00 **Save \$60.00 on 4+**  
 32 oz. Cleaner 82-226 \$19.00 **Save \$7.60 on 4+**



**Granite and Marble Sealant and Cleaner**

- 1 quart covers 1,000 square feet of surface.
- Helps prevent bacteria
- Can be used on polished surfaces such as granite, marble and travertine. For counter tops and flooring.
- Perfect for use in commercial and residential settings.
- UV stable and will not peel or discolor
- Contains no polymers, silicone, acrylics, or PTFE's
- Seals for up to 10 years
- Covers 700 - 1,000 square feet

32 oz. Cleaner 82-228 \$19.00 **Save \$7.60 on 4+**  
 32 oz. Sealant 82-227 \$180.00 **Save \$72.00 on 4+**



**Stainless Steel Appliance Kit**

- 3.4 oz. Cleaner
- 3.4 oz. Sealant
- Sponge
- 2 Application Towels
- Covers 75 - 100 square feet

82-202 \$70.00 **Save \$28.00 on 4+**



**Polished Granite and Marble Kit**

- 3.4 oz. Micro-Splitting Cleaner
- 3.4 oz. Sealant
- Sponge
- 2 Application Towels
- Covers 75 - 100 square feet

82-203 \$90.00 **Save \$36.00 on 4+**



**Tumbled and Porous Stone Kit**

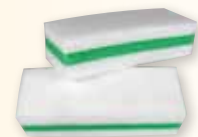
- 3.4 oz. Micro-Splitting Cleaner
- 3.4 oz. Sealant
- Sponge
- 2 Application Towels
- Covers 75 - 100 square feet

82-204 \$90.00 **Save \$36.00 on 4+**



**NanoTech Sponges**

10 pk. 82-212 \$15.00



green prices mean savings for you **GOGET \$TRETCHER**



**Gutter Getter**

Flexible tip conforms to any size gutter. Extended tongue reaches under gutter supports. Narrow heel makes it easy to pull loaded scoop from gutter. High Handle position protects hands from scrapes and scratches. Comes with handy wrist strap. Made of durable polypropylene.

55-23 \$5.00 *Save \$1.50 on 3+*



**Gutter Grabber**

The Gutter Grabber was designed to make the tough job of gutter cleaning easier. The Gutter Grabber's patented blade shape digs into the corner of the gutter and lies flat against both the bottom and side to thoroughly clean the gutter. The gutter grabber cuts down on ladder movement and lets you clean even where a ladder won't go. Slender design lets you reach into even very narrow gutters. Curved neck reaches under gutter hangers--even works with gutters with overhanging shingles from repeated re-roofing. Convenient hook lets tool hang from gutter while you change positions.

55-22 \$7.00 *Save \$2.10 on 3+*



**Gutter Cleaning Kit**

Rake it - Scoop it - Toss it! This kit is specially designed to reach under and around gutter hangers. Works with all types of gutters. Sturdy polypropylene and ABS construction. Very easy clean up! Kit includes the Gutter Grabber Tool, 42-inch steel extension pole, the Gutter Getter Scoop-plus, and a 2-pack Big Top downspout strainers.

55-20 \$15.00 *Save \$4.50 on 3+*



**Gutter Zap**

Gutter Zap is a revolutionary cleaner that will remove black streaks from gutters caused by the electrostatic bonding of tar and asphalt from roofs. Can be touchless with spray on and rinse off or with light agitation from a very soft brush. This product is concentrated and can be diluted two parts water to one part product and up to three parts water to one part product.

Gallon 89-01 \$20.00 *Save \$8.00 on 4+*  
 5 Gallon 89-05 \$66.30



**NEW 09**

**Gutter Down Spout Snake**

It unclogs downspouts fast and makes a difficult job easy. It is an effective tool to free the water flow and much more time effective than taking a downspout apart.

55-11 \$25.00



**Gutter Sense Tongs**

This a rain gutter cleaning tool that makes gutter maintenance easy from the ground, fits on an ordinary extension pole, is light enough to reach a two story gutter, grasps even pine needles, cleans beneath the supports and doesn't get you or the woodwork wet or blow the mess all over. Adjust the tongs forward and you can use it to grasp out-of-reach objects.

55-06 \$17.00



**GutterPillar Brush**

Cleaning Brush designed for fast and easy cleaning. 5" twisted wire, heavy duty bristles with 80 lb. test wire, ergonomic handle with hanging slot, and a 6" rise to keep your hands away from the roof and gutter.

55-05 \$12.50



**GutterPillar Filter**

Keeps pine needles, seeds, leaves, branches, and debris out of gutters and downspouts. With it's unique pre-scored guide lines on the inside of the filter, it eliminates problem with folding at installation time, thus eliminating possible voids and collection points at the back of the filter. UL, Class 1, Testing to be fire resistant and flame retardant gutter guard. They are 1/2-inch thick, the optimum design for water flow, will allow an estimated 300 plus gallons of water flow per hour. Will not cave in, collapse, bend, crack, crumble, dent, or separate. Helps prevent bird and rodent nesting and mosquito breeding. Reduces ice damming and ice cycling

5" x 48" 55-03 \$16.35  
 6" x 48" 55-04 \$17.35



**Gutter Tool**

Residential Gutter Cleaning Made Easy

- Handy, durable scoop can remove leaves & other debris
- Long, comfortable handle
- Attaches to extension pole for hard-to-reach jobs

55-10 \$10.55 *Save \$6.33 on 6+*



**SafeWindowCleaning.com**

A site dedicated to Water-Fed Poles and Systems







# HOW TO ORDER

We offer a variety of convenient methods for you to place your order with us. All are fast and easy for you, and will be attended to by our staff in the same professional manner.

## By Phone: (800) 221-3748



Simply call your order in to one of our knowledgeable technical consultants. They will make sure we have everything you need and will get the order shipped in most cases the same day.

## By Fax: NJ office (201) 348-1385 or CA office (310) 527-0739



Just fill out the order form on the opposite page completely and our order entry department will get it in the system and out the back door. All orders are reviewed by our technical consultants so we can insure you are getting all the right items for your project.

## By E-mail: [helpdesk@jracenstein.com](mailto:helpdesk@jracenstein.com)



Simply address an order to [helpdesk@jracenstein.com](mailto:helpdesk@jracenstein.com) and one of our specialists will get your order moving. Please be sure to include your telephone number so we can contact you with any questions.

## Online: [www.windowcleaningsupplies.com](http://www.windowcleaningsupplies.com) or [www.jracenstein.com](http://www.jracenstein.com)



Use the "shopping cart" at [www.jracenstein.com](http://www.jracenstein.com) and your order is in our hands immediately. It's easy to use and can be done at any time of the day. Our site offers secure payment processing, and will also be reviewed by one of our order specialists.

## By Mail:



If you are not in a rush, simply fill out the order form on the opposite page and mail it with your payment to J.Racenstein at the address at the bottom of this page.

**99% of all orders received before 2pm are shipped complete the same day they are received, no matter how you place them, online, by phone, fax or mail.**

## Save Time:

Call your order in directly toll free:  
**800-221-3748**

### West

J. Racenstein Co.  
20925 Chico Street  
Carson, CA 90746  
Fax: (310) 527-0739

### East

J. Racenstein Co.  
74 Henry Street  
Secaucus, NJ 07094  
Fax: (201) 348-1385

## Methods of Payment:



### Credit Card:

This is the easiest and fastest way to purchase your goods. We accept American Express, Visa, MasterCard and Discover. Please make sure you are prepared to give us the mailing address of your credit card statement as we will need that for verification. If you use a credit card you save at least \$9.00 over C.O.D.

### C.O.D.:

Another fast way to place an order is using Cash on Delivery. Our sales associates will call you back with the exact amount of the check to have ready. New customers on large orders will be asked to have a Cashiers Check prepared for pickup by the shipper. There is a C.O.D. collection fee of \$9.00 per package imposed by the carrier. All Checks and Money Orders should be made to J. Racenstein Company, LLC.

### Pre-Payment by Mail:

Please contact us for a shipping quote. Send us a check with your order form and we will fill your order. Orders may be held until the check clears the bank (approximately ten days).

### Credit:

J.Racenstein may be able to extend credit to regular customers based on the results of a Credit Application and subsequent evaluation. Please ask your sales consultant for a credit application.

### Pre-Pay Drop Shipments:

Pre-Payment in full is required for all items not shipped from one of our warehouses. This includes but is not limited to Ladders, Extension Washers, Roof Rig equipment.

Minimum Order - \$40 in Merchandise.

### Terms of Sale:

The J. Racenstein catalog is printed annually. We do our best to guarantee all prices, but they are subject to change at any time.

### Shipping Methods:

We need a Delivery Address not a PO Box for delivery.

We work with a UPS and a variety of freight carriers so we can get you what you need when you need it. When you place your order you will be asked to select a shipping method:

- Next day service
- Two-day service
- Three-day Saver service
- Ground service (delivery time will vary widely, from 1 - 2 days on the east and west coasts up to five or six days to the center of the country.)
- Freight. For large orders on pallets we can review the shipping price with a variety of freight companies.
- International. We will do our best to insure the fastest, safest and most economical shipping method for your order.

### Freight Charges:

The customer is responsible for freight charges. If you ask us, we will confirm a freight charge before the order ships. This way you can make an educated decision about the form of shipment.

### Will-Call

Will-call orders can be picked up in Secaucus or Carson. Please call the order in advance and allow two hours.

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Heavy Duty 6 in.



Triumph 5 in.



MK3 Angled 6 in.



Angled 6 in.



Triumph 3 in. Handy



Triumph 6 in.



MK 3 Straight 6 in.



Triumph Holster

Triumph scrapers and blades are the standard in the industry and are used every day by thousands of window cleaners. Don't risk your reputation, choose Triumph Scrapers. To learn more about why they are the best visit [www.TriumphScrapper.com](http://www.TriumphScrapper.com).



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