

Sherwin Industries, Inc.

MILWAUKEE, WISCONSIN
ESTABLISHED 1938

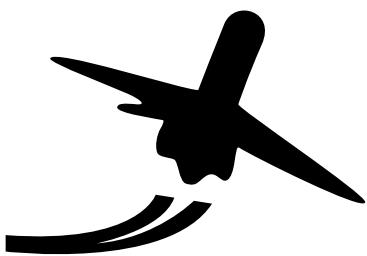


**HELPING TO MAKE SAFE
ROADS AND RUNWAYS**

About Sherwin Industries, Inc.

Sherwin Industries, Inc. became a corporation in 1938 and today Sherwin is in its fourth generation of ownership. Sherwin is divided into four divisions; asphalt and sealcoat manufacturing, distribution of pavement maintenance products, airport runway support, and airfield marking installation. We have added many different products to our catalog over the years, and continue to look for dependable and reliable items and services to offer our customers. Sherwin Industries is committed to serving our customers with quality products and excellent customer service. We have sales offices and dealer locations throughout the continental United States, England, and Hawaii to better serve each and every customer.

Sherwin Industries, Inc. Airport Runway Support



MILWAUKEE, WISCONSIN
WWW.SHERWININDUSTRIES.COM



Corporate Headquarters - Milwaukee, Wisconsin

Good Seal Products

A Division of Sherwin Industries, Incorporated

Sherwin Industries has been proudly serving County Highway Departments, City DPW's, Towns, Villages, DOT's, Highway Contractors, Sealcoat Contractors, and Airports for decades.

Sherwin Industries also takes employee satisfaction very seriously. We have several members of our team that have been employed at Sherwin for over 20 years.

From everyone at Sherwin Industries, Inc. we want to thank you for your business, and look forward to working with you for many years to come!

We are proud to be
an American
Company.



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Jennifer Larson
Shayna Schultz

North Eastern WI Office Staff
Patty Zepnick



OFFICE LOCATIONS

Corporate Headquarters

Sherwin Industries, Inc.
Good Seal Products Division of
Sherwin Industries
2129 W. Morgan Avenue
Milwaukee, Wisconsin

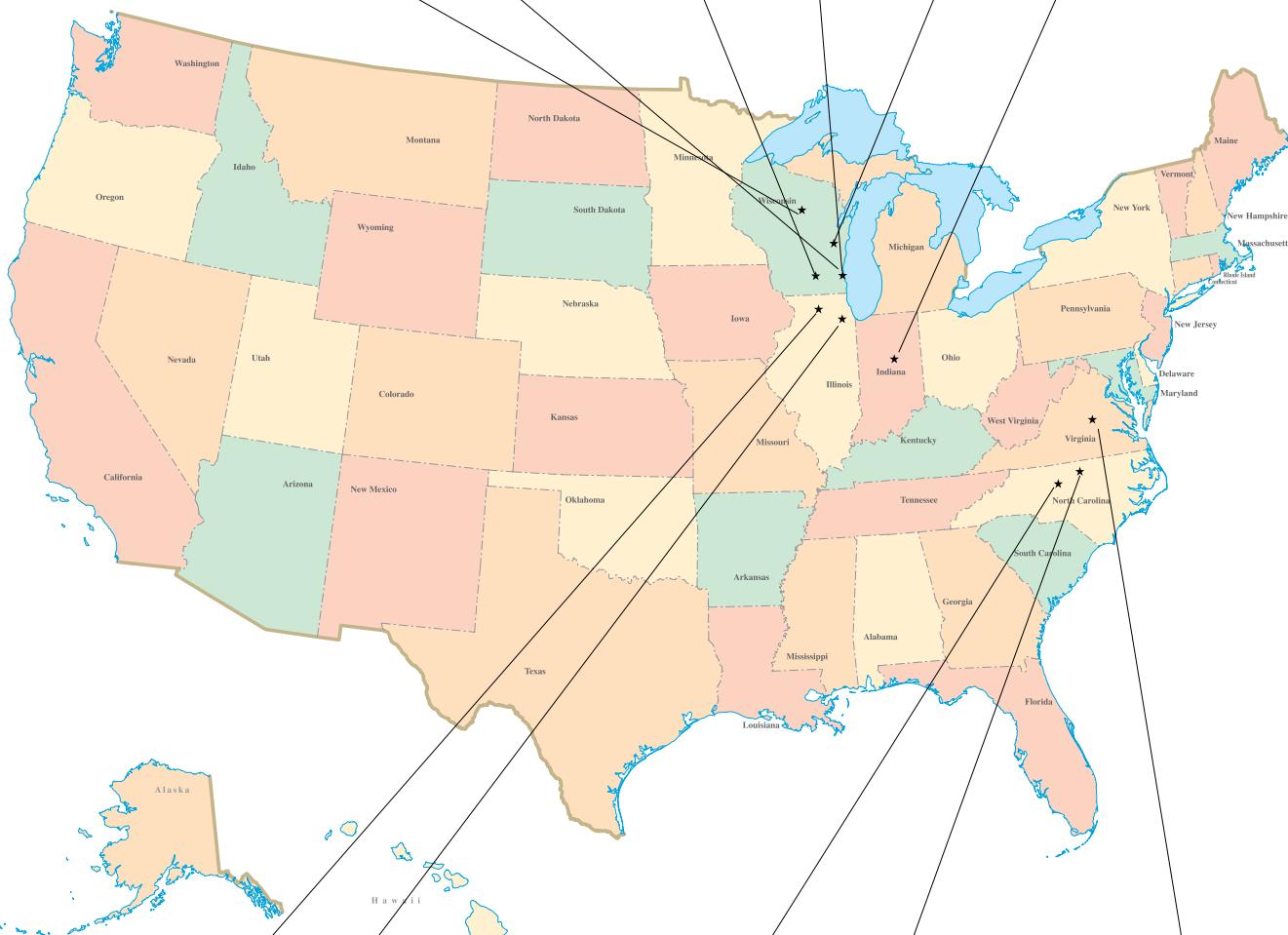
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Milwaukee, Wisconsin 53221
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Austad & Son, Inc.

905 Dempsey Road
Madison, Wisconsin 53714
Office: (608) 661-4600

Good Seal Products

2129 W. Morgan Avenue
Milwaukee, Wisconsin 53221
Office: (414) 284-4900

Jack & Dick's

975 S. Jackson St. (At Delavan)
Janesville, Wisconsin 53545
Office: (608) 752-3058

North Carolina

Sherwin Industries, Inc.

325-101 Habersham
High Point, North Carolina 27260
Office: (336) 342-4550

Furniture City

2325 E. Kivett Drive
High Point, North Carolina 27260
Office: (336) 869-8376

Indiana

Glenrock, Inc.

5500 W. 96th Street
Zionsville, Indiana 46077
Office: (317) 691-5618

Virginia

Bermuda Distribution, Inc.

12511 Bermuda Triangle Road
Chester, Virginia 23836
Office: (804) 748-6385

International Dealers

UK/ENGLAND**Bowmonk Limited****Ernie Hill**

Diamond Rd, St. Faith's Industrial Estate
Norwich, Norfolk NR66AW
Office: 011-44-1603-485153
Fax: 011-44-1603-418150

Hawaiian Islands & Pacific RIM**Frank Young & Lisa Young Hunt**

120 Kapalulu Place
Honolulu, Hawaii 96819
Office: (808) 833-6020
Fax: (808) 834-4690

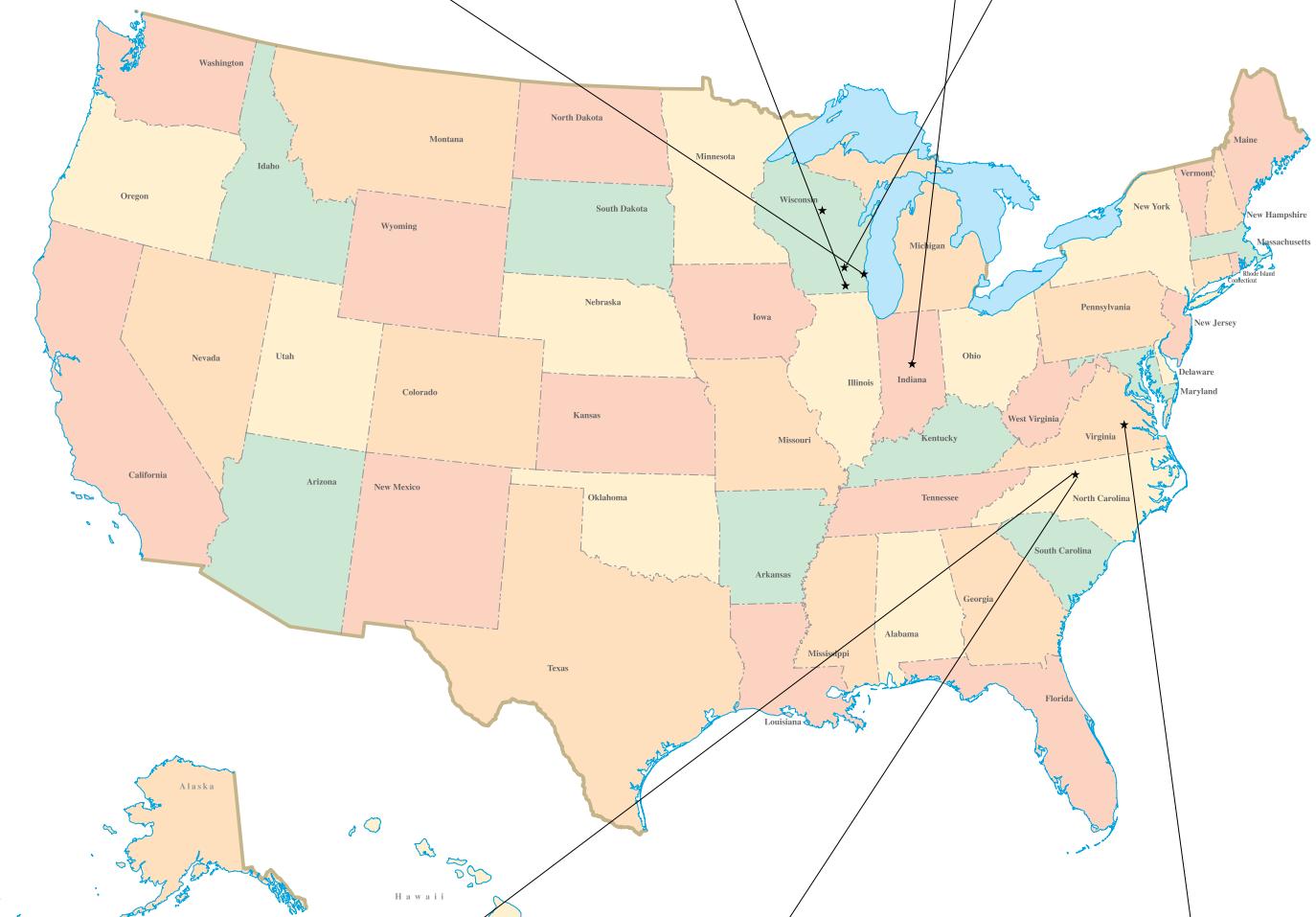


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Chester, Virginia 23836
Phone: (804) 748-6385

RENTAL EQUIPMENT

<u>PART #</u>	<u>DESCRIPTION</u>
*S0062R	Crafco Model 200 Pavement Cutter with Electric Clutch <i>Note:</i> With rental of all pavement cutters (routers) the customer must purchase all cutters, pins and spacers from renter.
*S0064R	Crafco Melter Applicator
*S0068R	Falcon Trailer Mounted 2-Ton Diesel Fired Hot Box
*S0069R	Crafco Patcher II for Poly Patch and Tech Crete Material Trailer Mounted with Diesel Burner <i>Note: All rentals are plus gas, diesel or propane where required.</i>
SG1247R	Walk Behind High Output Blower
*S0063R	Trailer Mounted Infrared Heater <i>Note: With rental, customer must purchase propane from renter.</i>
*S0071R	Flat Bed Trailer for Equipment
*S0072R	Four Ton Capacity Dump Trailer
*S0073R	Hot Air Lance - used for properly cleaning and drying cracks prior to sealing
*S0074R	Graco GrindLazer - For Traffic Paint, Thermoplastic and Epoxy Line removal, smoothing uneven concrete or asphalt surfaces
*S0075R	Graco FieldLazer - Designed for Athletic Field Markings
SSMDSS	Sherwin Portable 12 Volt Spray System for application of Star Seal Concrete Penetrating Sealers
*S53010R	Pre Mark Torch
G1007R	Sealer Tanks 300, 500 gallon
S1701R	Rental of Lighted Runway Closure Marker (RCM)

Note: All rental equipment must be returned clean and in working order otherwise a service fee for clean up and repair will be charged to the renter. All customers who rent must have liability insurance coverage to rent equipment, and name Sherwin Industries, Inc. as additional insured for full value of rented piece of equipment. Proof of insurance is required; and all customers who rent must sign a rental agreement. Renter must have proper size vehicle and tow equipment to tow rental equipment. Sherwin Industries, Inc. has the right to refuse rental if tow vehicle is not large enough, and correct for towing.

Hand agitated and spray systems available.

***Please call for availability on above units.**

EZ Series II Melter/Applicators

The High Efficiency Melter

The all new **EZ Series II** is the fourth generation of Crafco melters. The EZ Series II has taken the best of the EZ-Pour, added a heated hose and electronic controls, making it the highest efficiency machine available. Automatic electronic controls and modular design features add to the usability of the Series II. We have the highest heat efficiency ratio and the fastest heat up time of any machine on the market.

The all new EZ Series II offers heated or unheated applicator hose options, the largest commercial air compressor, as well as such labor saving options as the

autoloader and integrated engine gauges. The heat jacket fins and the heat tower, with the best insulation, provide a fast heat-up and recovery time.

The two inch rugged sealant pump with true on demand pumping give the Series II the ability to apply hot pour, fiber and coal tar sealants quickly and efficiently.

Take your crack sealing into the 21st century and give the all new EZ Series II melter applicator a try. They are available today from your local Crafco Distributor.



OPTIONS

- Engine Cover
- Gravity Feed
- Arrow Board Kit
- Surge Brakes
- Engine w/ Gauges
- Autoloader
- 50, 70, CFM Compressor
- Custom Paint
- Hitch Selection
- Electric Pin Selection

- Hitch Extension
- Cab Brake Control
- Break-away Battery w/ charger
- Locking Battery Box
- Light Bar
- Overnight Heater
- Fire Extinguisher
- Tool Box
- Safety Hooks
- Mud Flaps
- Spare Tire Kit



WORKING AREA
15' hose = 1019 Sq. Ft.
18' hose = 1357 Sq. Ft.
20' hose = 1452 Sq. Ft.

New self adjusting sliding boom increases operator head clearance to 6'5", allows for 7" of travel and increases hose mobility.

Low Profile / Low Center of Gravity

The EZ Series II features a galvanized, corrosive resistant jacket painted with a two part Dupont™ epoxy paint. Under the jacket, surrounding the tank, is a high efficiency flexible blanket insulation. The frame is of a one piece construction.



EZ Series II 500

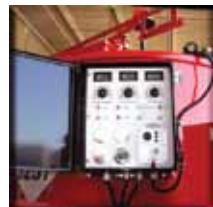


EZ Series II 1500



Webbed Reinforced Welded Frame

Single piece constructed frame for balance, durability and towing ease.



Rear Control Box

All controls are in one location at the rear of the unit. Functions include all engine controls, heated hose with lockouts, and pump flow control.



Recirculation on Switch

Provides true "on-demand" pumping for extended pump life, lower operating costs, and less down time.



Removable Burner Box

Side access for easy servicing and new high efficiency insulation.



Heat Chamber

Features a heat damper to control the temperature and 20 GPM 2" sealant pump.

Super Shot Melter Applicators

Crafco Super Shot Melter/Applicators **Engineered Performance** answers todays challenges of high energy costs and small budgets with innovative features. Available in three sizes to match budgets and job criteria. Super Shot machines get the job done, and get the job done right, quick and economical. No other machine on the market today can match Crafco's Engineered Performance System Machines.

Engineered Efficiency. Crafco's Super Shot engineered pump is mounted inside the melter, eliminating material recirculation, outside plumbing and high-pressure lines, which decreases pump wear. By eliminating the need for re-circulation the pump runs only when material application is needed making this an "on demand" system which increases pump life and operator safety.

Additionally, an internally mounted pump requires no packing eliminating maintenance. Less maintenance in the shop means more production on the job, more profit and less costs.

Engineered Options and Features. Standard Engineered Features make the operation of these melters the safest and the easiest machines to operate. Many of the other features reduce labor and operating costs. The most impressive are the Super Shot Melter Engineered Options. Design the machine you want with these options. Add an optional industrial air compressor and save the cost of running an additional engine and tow vehicle. With over 20 available options you will save time, money and man power.





Super Shot 125



Super Shot 60



Super Shot 250

SUPER SHOT 60

SUPER SHOT 125

SUPER SHOT 250

Dimensions - 110.25" L / 62.00" W / 72.00" H	- 138.25" L / 68" W / 83.25" H	- 174.00" L / 91.25" W / 81.00" H
Shipping Weight - 2,085 lbs / 945.7 kg. - Actual	- 38001 lbs / 1,724 kg. - Actual	- 5,457 lbs / 2,456 kg. - Actual
Gross Weight - 5,800 lbs. / 2,631 kg. - Approx.	- 5,100 lbs / 2,313 kg - Approx.	- 7,957 lbs / 3,609 kg - Approx.
Material Capacity - 60 Gal. / 227 liter	- 132 Gal. / 500 liter	- 250 Gal. / 946 liter
Melt Rate - 480 lbs/hr	- 900 lbs/hr	- 1,700 lbs/hr
Heat Transfer Oil - 21 Gal / 79 liter	- 34 Gal / 128 liter	- 49 Gal / 185 liter
Tank Construction - Double Boiler	- Double Boiler	- Double Boiler
Tank Opening - 12.25" X 15" / 311.15mm X 381mm	- 14" X 18" / 355.6mm X 457.2mm	- 16" X 24" / 457.2mm X 609.6mm
Loading Height - 50 in. / 127 cm	- 58.0 in. / 147.3 cm	- 58 in. / 147.3 cm
Heat Input - 180,000 Btu	- 290,000 Btu	- 290,000 Btu
Diesel Fuel Capacity	- 26 Gal. / 121 Liter	- 32 Gal. / 121 Liter
Propane Capacity - 100 lbs. / 45.3 kg		
Hydraulic Oil Capacity - 26 Gal. / 98 Liter	- 21 Gal. / 79 Liter	- 26 Gal. / 98 Liter
Engine Standard - Kohler Mod. Ch205 20HP @ 3600 RPM	- Three Cyl. Isuzu Mod 3CB1 25.4 BHP @ 3,000 RPM	- Three Cyl. Isuzu Mod 3CB1 25.4 BHP @ 3,000 RPM
Engine Option (W/Compressor) - NA	- 53 cfm comp. Three Cyl. Isuzu Mod. 3CD1 33 BHP @ 3,000 RPM	- 53 cfm comp. Three Cyl. Isuzu Mod 3CD1 33 BHP @ 3,000RPM
	- 70 cfm comp. Three Cyl. Isuzu Mod. 3CD1TK 41.6 BHP @ 3,000 RPM	- 70 cfm comp. Three Cyl. Isuzu Mod. 3CD1TK 41.6 BHP @ 3,000 RPM
Axle Capacity - 2000 lb. Torsional / 907 kg	- 2000 lb. Torsional / 907 kg	- Dual 5,200 lb. Torsional
Tires - ST175 / 80 D-13	ST225 / 75R15	- ST225 / 75R15
Air Compressor (Optional) - NA	- 53.8 CFM @ 100 PSI / 70 CFM @ 100 PSI	- 53.8 CFM @ 100 PSI / 70 CFM @ 100 PSI
Surface Area-Material Tank - 2,538 in ² 16,347 cm ²	- 4,272 in ² 27,135cm ²	- 6,632 in ² 42,787 cm ²
Surface Area-Oil Tank - 3,335 in ² 21,516 cm ²	- 5,377 in ² 34,153 cm ²	- 7,655 in ² 49,387 cm ²
Ratio of Tank Surface Area - 1.31:1	- 1.26:1	- 1.15:1
Controls - Standard Super Shot	- Standard Super Shot	- Standard Super Shot
Control Location - Rear Control Station	- Front and Rear	- Front and Rear
Hose Style - Electric	- Electric	- Electric
Wand Style - Electric	- Electric	- Electric
Hose Compartment - No	- No	- No
Material Recirculation - No	- No	- No
Boom - Sliding Bearing	- Sliding Bearing	- Sliding Bearing
Burner Box - N/A	- Removable Face Plate	- Removable Face Plate

Engineered Performance Features



QUICK AND EASY START-UP

With the flip of a toggle switch the Super Shot will be ready to operate in less than an hour. Shut down at the end of the day is just as easy.



HEATED HOSE

The low voltage electric heated hose heats material to application temperature within 45 minutes. The hose has the longest working radius in the industry, a 360° swivel, protected sleeve, and a repairable hose and wand.



Automatic Agitator Shut-Off and Splash Proof Lid



Integrated Operator Control System



Optional Compressor



Optional Engine Cover



Efficient Burner



Low Profile

Shut offs are incorporated into the lid, hose, wand, pump, burner, and electrical controls.

Controls operate the entire unit and overrides possible operator error. Integrated control box houses all the gauges, switches, and engine.

Compressor runs air lance used to clean out dirt and debris from cracks increasing crack sealing efficiency.

Protects engine from the elements, vandalism and theft.

Burner is positioned safely within the frame giving it protection and ample ground clearance. Time saving electric overnight pre-heater option available.

Low center of gravity provides easy loading, yet has ample unobstructed ground clearance for safe towing over the most rugged road conditions.

Engineered Performance Options

Crafcos offers many Engineered Performance Options to increase production, save labor and lower operating costs. The versatility of the Super Shot units allows you to specify options in your time frame, from the initial placement of the order all the way through production. Most Super Shot units have been engineered to accept any option, whether it's an autoloader, compressor, light bar or fire extinguisher. These options will enhance production, increase safety and security.

Engine covers and battery boxes protect the engine from the elements and add security. The autoloader increases production, adds safety and decreases operator fatigue. The overnight heater is an on the job must if you want to reduce start up time. The light bar is essential for added safety to direct traffic and increase driver awareness. No other machine comes as complete or as diversified.



- Engine Cover
- Gravity Feed
- Arrow Board Kit
- Surge Brakes
- Engine w/ gauges
- Autoloader
- 50, 70 CFM Compressor
- Custom Paint
- Hitch Selection
- Electric Plug Selection
- Hitch Extension
- Cab Brake Control
- Break-away Battery w/ charger
- Locking Battery Box
- Light Bar
- Overnight Heater
- Fire Extinguisher - 10 or 20 lb
- Tool Box
- Safety Hooks
- Mud Flaps
- Spare Tire Kit
- 100 lb propane tank kit

AutoLoader

Crafco Auto-Loader Conveyor

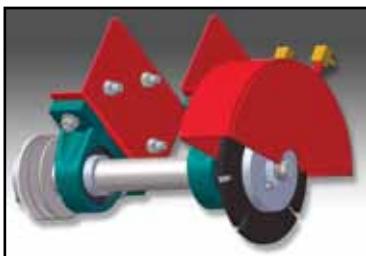


The New Crafco Auto-Loader conveyor increases production by supplying a continuous flow of sealant to the melter. The unique patented design of the Auto-Loader keeps workers out of traffic for loading operation increasing work safety while minimizing the lifting height. All loading is done from in front of the melter/applicator from the truck bed. The sealant blocks move down a conveyor belt and drop into the tank through a anti-splash loading door. The Auto-Loader operates off the existing power system on the melter and installs onto most existing power system on the melter and installs onto most existing melter/applicators. The Crafco Auto-Loader can be ordered as an option on new Crafco Supershoot and EZ Series II Melter/applicators.

Model 200 Pavement Cutter

*Random cracks stay sealed 50% longer when they are routed with the
Crafco Model 200 Pavement Cutter and Sealed with a quality sealant. (SHRP H.106 Report)*

Over 30 years of proven performance • Most comprehensive service coverage



Crack Saw Attachment Option

The Crafco Crack Saw Attachment is designed to convert the Crafco Model 200 Pavement Cutter into a joint and random crack saw for use on concrete and asphalt. Conversion takes less than one hour. Diamond or abrasive blades (not included) may be used wet or dry. All parts necessary to transform the Pavement Cutter into a saw, including all belts, bearings, shafts, hoods and brackets are included.



Self Propelled Option

The Model 200 Pavement Cutter Self Propel option will propel the cutter. Moving the cutter uphill, up inclines (road crowns) and from crack to crack effortlessly. Simply engage the wheel drive power whenever it is needed. The self-propelled option greatly increases productivity and decreases operator fatigue.

Clutch Operated:

An electric clutch is mounted on the pavement cutter to stop and start the cutter head on demand.



The **Crafco Model 200 Pavement Cutter** has been the industry standard for over thirty years. There is no other Pavement Cutter that can match the quality, reliability, long term performance and features of the Crafco Model 200. Its lightweight mobile design, unique center of axis and cutter head alignment enable it to produce unmatched crack following accuracy. There is no better way to effectively and efficiently create sealant crack reservoirs than with the Crafco Model 200 Pavement Cutter, the most popular Pavement Cutter throughout the world.

31134 Steel Cutter



Place in line with six spacers on each side. The cut will be approximately 1/2 inch wide. Us on AC pavement or PCCP. Some spalling can be expected.

31145 Wide Hub Cutters



The wide hub and smaller arbor reduces cutter "wobble" providing a cleaner pavement cut which improves the sealant bond to the crack sidewall. Provides 1/2 inch to 3/4 inch cut.

31136-7 Carbide Cutters



Place six spacers on each side for a 1/2 inch wide cut. Stack two cutters side by side with three spacers on each side, or stagger in a 2-1-2-1-2-1 configuration for a 1.3 inch wide cut. You can also use three cutters side-by-side for a two inch wide cut. These cutters can be used on AC pavement or PCCP.

31138- 6 1/2" Carbide Cutters



These cutters are the same as the 31136 cutter except they have an increased cut depth up to two inches. Three cutters are evenly spaced on the cutter head leaving every other pin empty.

31114 - Cutter Pins

Crafco cutter pins are ultra hard on the outside for wear resistance and flexible on the inside.

31151 - Extended Life Cutter Pins

These pins gain 20% to 30% more life as compared to the 31114 pin.

31149 - Extended Life Carbide Cutters

TechCrete

The Superior Solution for Concrete Repair

Crafco TechCrete is the long-term solution for distressed concrete pavement preservation. Crafco TechCrete is a proven hot pour superior repair solution different from conventional rigid repair methods. Due to its flexibility, high tensile strength, ability to bridge joints and high compressive resistance, TechCrete creates a long lasting concrete repair.

Conventional rigid cement repairs such as epoxy or fast curing cementitious products often fail due to de-bonding, fatigue, and differential expansion characteristics. Unlike conventional repair methods once in place Crafco TechCrete will move with the pavement and will not de-bond or crack. TechCrete repair system has excellent adhesion and has a high friction surface ideally suited for Thin Bond Repair (TBR), multi corner slab repair, joint intersection repairs and recessed applications. Repairs with Crafco TechCrete can be opened up to traffic within as little as one hour. TechCrete is the most advanced concrete fix available and is ideal for highway and airport pavement repair. With Crafco TechCrete it's a one-time fix.



Easy Application!

- Long Lasting Repair
- Excellent Adhesion
- Flexible
- Compressive Resistant
- High Tensile Strength
- Spans Joints
- Ideal for Recessed Areas
- Ideal for Multi Corner Slab Repairs
- Open to Traffic in About One Hour



PolyPatch / Mastic One

The Cost Effective, Permanent Repair for Distressed Concrete and Asphalt Pavements



Crafco PolyPatch has been specifically designed for cracks too large for crack sealing and distressed surfaces that are too small for re-paving. It is a versatile hot-applied, pourable, self-adhesive polymer modified asphalt binder containing selected aggregate to ensure good load bearing and skid resistant characteristics. Available in several grades for various applications. PolyPatch is effectively used to level high manhole risers, crop inlets, bridge deck approaches, elevation discrepancies, utility cuts and more. PolyPatch is a *lightweight* product packaged in three gallon containers.

Mastic One - Same great properties of PolyPatch only with a standard weight aggregate.

Crafco Mastic One is a hot applied, pourable, aggregate filled, polymer modified asphalt pavement repair mastic. Mastic One is used for filling and repairing many distressed in both asphalt concrete and Portland cement concrete that are larger than those typically repaired by crack or joint sealing, but smaller than repairs requiring remove and replace patching procedures. Typical uses include filling and leveling of wide transverse or longitudinal cracks and joints, filling potholes and utility cuts, localized skin patch repairs and leveling bridge approaches or faulted areas. When properly applied, Mastic One forms a well bonded, flexible, durable, traffic resistant repair. To use, Mastic One is removed from the box, placed into an appropriate melter (Crafco Patcher I or II), mixed and heated until application temperature is reached, then poured into the prepared repair area and then leveled. Mastic One is formulated to provide neat feathered edge installation. Mastic One is then ready for traffic when it has cooled to solidify.

Patcher Polypatch and TechCrete Melter



No matter the task, we have the right equipment and material for your operation.

Specifically designed to melt and prepare PolyPatch and TechCrete pavement patching material for application.

The diesel Crafco Patcher II is a double boiler that is digitally controlled to assure that material temperatures are held within specification ranges at all times. A swivel material delivery chute makes placing material fast and easy. To clean out, load the machine with dry aggregate - run agitator and empty it's that easy. All machines are equipped with a safety shutoff on the lid to prevent injury during operation. Available in a one ton (Patcher I) and two ton (Patcher II).

FEATURES

- Diesel powered
- Digital temp controls
- Swivel chute
- Easy clean out
- Safety shut off lid
- Curb side controls
- Double boiler
- Multi material use design





Crafco's Magnum Spray Injection Patcher is the top workhorse in an impressive line of patching equipment. It effectively repairs a wide variety of pavement conditions including potholes, deteriorated shoulders, utility cuts, fissures, and alligator cracked areas. The Magnum Spray Injection Patcher's integrated operation cleans the area to be repaired, applies a tack coat, coats the aggregate with asphalt emulsion and then applies the mixture all in one easy continuous operation. Using high velocity air, the coated aggregate material is compacted during application leaving virtually no voids in the final pavement repair, making a long lasting patch that is superior to conventional methods as proven by government studies. The Magnum will place over seven tons per hour. The aggregate material for the trailer mounted Magnum is supplied from a dump truck that is equipped with a live tailgate, which provides a uniform material supply for uninterrupted production. A counterbalance folding boom sweeps a 360° arc that extends eighteen feet from the back of the unit covering an unprecedented **1,275 square feet work area**. All controls are positioned at the operators' fingertips giving the operators complete control. The Magnum Spray Injection Patcher features a "maintenance free" emulsion feed line and a machined aluminum application nozzle, which contains an internal pressurized spray ring assuring 100% aggregate coating. Crafco Magnum Spray Injection Patchers give you complete control of pavement preservation, from the smallest repair to the largest; quickly, effectively and efficiently.

The Crafco Spray Injection Patcher is the only piece of pavement preservation equipment to be documented by every major trade publication, the US Department of Transportation and customers to be "better than hot patch" and "to have no equal".

Features:

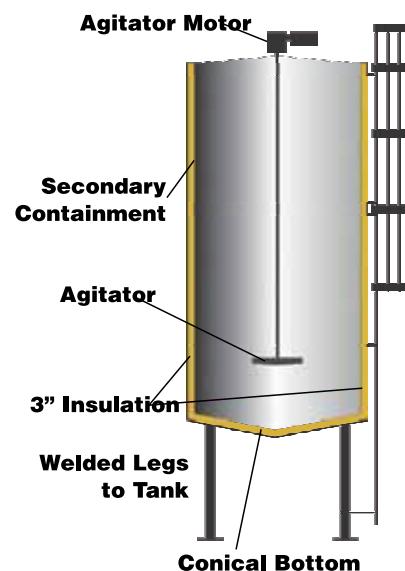
- Highest production in the industry
- Best velocity control
- Best aggregate control
- Seven tons per hour production
- Large work area (1,275 sq. ft.)
- Positive feed system
- Precise emulsion control
- Crafco quality



Emulsion Storage Tanks Specifications

SCOPE The emulsion tank shall be furnished complete and ready for satisfactory operation. The unit bid herein will be the manufacturer's latest current production model. Complete detailed specifications with advertising literature sheet shall be furnished with the quotation on the IDENTICAL tank proposed. Any information necessary to show compliance with these specifications not given on the advertising literature sheets furnished with bid shall be supplied in writing and attached to the bid proposal. Unit shall meet or exceed the MINIMUM requirements described herein.

- Double welded seams
- Drop cone bottom
- 3" insulation
- Secondary containment shell
- Leak detection gauge
- Heating element
- Agitator
- Bottom clean out
- Continuous steel structure



TANK Tanks shall be vertical type and pressure tested for storage of emulsified asphalt and oils. Tanks are manufactured with an offset seam and a series of welds inside and a full seal weld pressure tested outside. They shall be fabricated of minimum 7-gauge steel. Insulation shall be a minimum thickness of 3 inch R-11 available. Tank shall have primer coat and be painted black. Tank shall be supplied with one side mount manhole access. Tank shall come complete with 10 gauge steel secondary containment shell with 2" monitor pipe and leak detection site glass. There shall be a 5-inch dial side mount material temperature gauge.

HEATING ELEMENT The tank shall have heating elements of 6,000 watts and 220 volts. Elements shall be placed in schedule 40 housing positioned inside the tank which are 60" long and located 8" below the 24" liquid manhole access. Heating elements shall be removable without draining the tank or removing the tank cover or the insulation.

BALL VALVES There shall be minimum of two 3-inch ball valve for material loading and unloading located at or near tank.

STEEL STAND The bottom of tank must be a minimum of 5 feet above ground level for gravity loading of product, optional 8 foot legs.

HOSE Hose shall be a minimum 3-inch ID, 12 foot long loading hose shall be provided with tank.

AGITATION SYSTEM Top mounted, worm gear electric motor, single phase, 110 or 220 volt, shall be provided with HP size based on mixer size.

OPTIONS

- 18, 20, or 24 inch bolted top manhole
- 18, 20, or 24 inch hinged manhole
- Top rail with toe plate
- 4 inch internal overflow pipe
- Low level mixer shut down
- Low temperature mixer shut down
- High level alarm
- Timer for mixer with battery back up
- R-13 insulation in place of R-11
- Mechanical float gauge
- 8 foot steel legs in place of standard 5 foot
- 2" ball valve w/ heat tape, 220 volt
- Electric time clock control for agitator
- Access ladder with cage

	2000 GALLON CAPACITY	3000 GALLON CAPACITY	4000 GALLON CAPACITY	5000 GALLON CAPACITY	6000 GALLON CAPACITY	8000 GALLON CAPACITY	10000 GALLON CAPACITY
TANK							
Minimum diameter and minimum height	64" X 12'	7' X 11'	7' X 14'	7'6" X 5'	7'6" X 18'	8' X 21'	9' X 21'
Shall have minimum drop cone bottom for solids retention.	2"	3"	3"	4"	4"	5"	6"
7-gauge steel construction	Side/top	Side/top	Lower 5' of side 1/4" w/ balance & top 7-gauge	Lower 6' of side 1/4" w/ balance & top 7-gauge	Lower 6' of side 1/4" w/ balance & top 7-gauge	Lower 6' of side 1/4" w/ balance & top 7-gauge	Lower 6' of side 1/4" w/ balance & top 7-gauge
steel bottom	7 gauge	7 gauge	1/4 inch				

	2000 GALLON CAPACITY	3000 GALLON CAPACITY	4000 GALLON CAPACITY	5000 GALLON CAPACITY	6000 GALLON CAPACITY	8000 GALLON CAPACITY	10000 GALLON CAPACITY
HEATING ELEMENTS							
6,000 watts/220 V/25 amps	2	2	2	2	2	3	3

	2000 GALLON CAPACITY	3000 GALLON CAPACITY	4000 GALLON CAPACITY	5000 GALLON CAPACITY	6000 GALLON CAPACITY	8000 GALLON CAPACITY	10000 GALLON CAPACITY
STEEL STAND							
Beam legs and Base plates	(4) 4" 13# WF beam legs & 8" X 8" X 1/2" base plates	(4) 6" 20# WF beam legs & 10" X 10" X 1/2" base plates	(4) 6" 20# WF beam legs & 10" X 10" X 1/2" base plates	(4) 8" 31# WF beam legs & 12" X 12" X 1/2" base plates	(4) 8" 31# WF beam legs & 12" X 12" X 1/2" base plates	(4) 10" 45# WF beam legs & 14" X 14" X 1/2" base plates	(6) 8" 31# WF beam legs & 12" X 12" X 1/2" base plates

	2000 GALLON CAPACITY	3000 GALLON CAPACITY	4000 GALLON CAPACITY	5000 GALLON CAPACITY	6000 GALLON CAPACITY	8000 GALLON CAPACITY	10000 GALLON CAPACITY
AGITATION SYSTEM							
Minimum shaft diameter	1 3/4"	1 1/2"	2 3/8"	2 3/8"	2 7/8"	2 7/8"	2 7/8"
Impeller shall be HyFlow II with specified diameter	24"	32"	33"	33"	34"	45"	45"
Impeller to operate at non-variable speed maximum of specified RPM	70 RPM	58 RPM	58 RPM	44 RPM	58 RPM	44 RPM	44 RPM

MISCELLANEOUS The bidding agency is responsible for cost and construction of concrete foundation and for proper placement of mounting component, cost and arrangements for required electrical wiring, cost and arrangements for tank erection and placement, and environmental compliance. Detailed tank leg specifications for mounting to concrete foundation shall be provided by supplier.

WARRANTY The manufacturer's usual warranty shall apply and will be in effect for at least one year. Bidder shall provide warranty information with bid proposal.

Please consult your local OSHA standards for tank regulations in your region.

Easy Installation



Pour Pad



Erect Tank



Weld Feet



Permanently Secure



Install Parts Kit

Loop Detection Sealant

Crafco Loop Detection Sealant is specifically designed to provide total and permanent protection in both concrete and asphalt pavements. Crafco Loop Detection Sealant is a hot-melt, rubberized asphalt sealant material that, when properly applied, forms a resilient and adhesive seal. The Crafco Loop Detector Sealing System will save you time, money and labor while helping eliminate the need for the costly repair or replacement of failed loop wire systems.



LF 150 Loop Fill Equipment



BAX 250

Marker Adhesive

Standard Adhesive PN# 34269

- Meets ASTM D4280 and D4383
- Single component - Hot applied
- Uniform blend
- Very workable
- Highly adhesive
- Crafco quality

Crafco Flexible Marker Adhesive PN# 34270

- Polymer modified for temperature stability.
- Applied with standard jacketed melter.
- 30% lighter than conventional filled adhesive.
- Will not settle out in the applicator tank.
- Re-heatable.
- Flexible to 20°F. (-7°C)
- Faster heat up.
- Extended life.



The right choice for marker application is the Crafco Marker Adhesive System. Crafco's Marker Adhesive System includes both application equipment and marker adhesive.

The BAX 250 will heat 250 pounds of adhesive per hour and applies 20 "shots" per minute for high application rates. The BAX comes skid mounted. Also available is a 600 pound unit for Flexible Marker Adhesive application. A 10 foot heated hose and 24" wand allows maneuverability and efficient production. Additional hose and wand options are available.

Super Sealcoater



Crafco Engineered Performance Design

Designed for the contractor, the Crafco Super SEALCOATER's standard features are considered options on all other competitive seal coat machines. Quality parts and superior construction make the Super SEALCOATER the machine of choice for everyday rigorous use. Features such as the unbreakable steel tank to the oversize hydraulic system set this unit apart from all the others. Built with Crafco quality and engineered to last, choose the Super SEALCOATER for your next seal coat machine.

Options include:

- 35 Gallon Water Tank w/ Pump
- 35 Gallon Brush Box

Specifications

550 & 800 Gallon Capacity

- Steel Tank w/ 10 Gauge Thick Bulkhead & Tank Wrap
- Jenny Air Compressor - 13 HP Honda Engine w/ Electric Start & 30 Gallon Air Tank
- Choose From 3 Hitch Styles, Breakaway Switch & Safety Chains
- 54.5" long X 40" wide Storage Deck
- (2) 6,000 lb. Torsional Axles w/ Electric Brakes
- 16" Load Range D Tires
- Variable Speed Hydraulic Powered Agitation System w/ Forward, Reverse & Neutral Metering Valve
- 6 Paddle Agitator w/ Rubber Wipers
- 2" Diaphragm Pump
- 6' Aluminum Hand Wand
- 3 Gallon Strainer Box and Basket
- 24" X 24" Material Tank Hatch w/ Sand Grate & Inner Splash Lid, Outer Lid Lock
- Brake, Side Marker, Center Light Bar Lights & License Plate Bracket
- Heavy Duty Safety Tread Plate Fenders w/ Integrated Steps
- 1/4" wide Air Powered Water Pumping System w/ 25' Hose & Nozzle
- Weatherproof Record Box
- Industrial Grade Paint
- 35 Gallon Water Tank w/ Direct Connect to Piping System with Water Pump
- Hose Reel on Fabricated Swivel w/ 100' - 3/4", 300 psi Hose
- 60" X 41.5" Storage Deck Flip-Up Ramp

The Geo Composite Advantage

Crafco Geo Composites will effectively seal moisture from concrete or asphalt surfaces while dispersing stress associated with reflective cracking of overlaid pavements.

Easy Fast Installation = Long Lasting Cost Effective Results

The leading Geo Composite membranes since 1982

PavePrep is a high density mastic laminated with a tough woven polyester designed specifically to withstand the loads encountered by highway traffic and stress concentrations at pavement joints and cracks. PavePrep's dense and flexible mastic reduces the tendency for cracks to reflect through the overlay by dispersing the pavement stress.

PavePrep SA (Self Adhesive) comes with a peel-and-stick adhesive on the application side and does not require a tackcoat for most surfaces.

GeoTac is a peel-and-stick waterproofing membrane designed specifically as a moisture barrier. GeoTac is high caliper and uses a full modified SBS asphalt mastic applied to a non-woven polyester geotextile.

GeoTac HS is composed of a specifically designed polymer modified asphalt waterproofing membrane adhesive that is bonded to a high strength woven polyester fabric backing.

Advantages

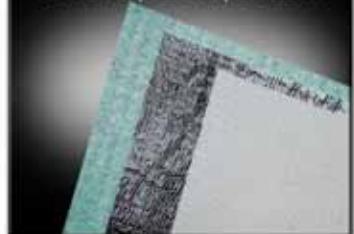
- Provides a stress relief layer
- Significantly reduces reflective cracking
- Lowers pavement maintenance costs
- Easy installation
- Minimal traffic disruption
- Reduces further structural deterioration
- Reduces moisture penetration
- Increases overlay life
- Waterproofs



PavePrep SPECIFICATIONS

Property	Value	Test Method
Cold Flex	No cracking or separation of fabric	ASTM D146 (modified)
Tensile Strength (Peak)	2,000 psi minimum	ASTM D412 (modified)
Elongation (@ Peak Tensile)	10% minimum	ASTM D412 (modified)
Weight	0.8 lbs/sf (3.7 kg/m ²) minimum	N/A
Density (mastic)	80 PCF minimum	ASTM D70
Thickness	0.135 inches typical	ASTM D1777
Thickness Retention	75% minimum retained after loading	ASTM D395 (modified)
Absorption (mastic)	1% maximum	ASTM D517
Brittleness	Passes	ASTM D517
Softening point (mastic)	210° F - 230° F (99° - 110° C)	ASTM D36

PavePrep Composition

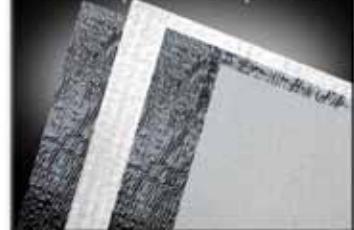


PavePrep SA SPECIFICATIONS

PavePrep SA (Self adhesive) eliminates the need for a tack coat for application in most

Property	Value	Test Method
Cold Flex	No cracking or separation of fabric	ASTM D146 (modified)
Tensile Strength (Peak)	2,000 psi minimum	ASTM D412 (modified)
Elongation (@ Peak Tensile)	10% minimum	ASTM D412 (modified)
Weight	0.8 lbs/sf (3.7 kg/m ²) minimum	N/A
Density (mastic)	80 PCF (1.28/g/cc) minimum	ASTM D70
Thickness	0.135 inches typical	ASTM D1777
Thickness Retention	75% minimum retained after loading	ASTM D395 (modified)
Absorption (mastic)	1% maximum	ASTM D517
Brittleness	Passes	ASTM D517
Softening point (mastic)	210° F - 230° F (99° - 110° C)	ASTM D36

PavePrep SA Composition



GeoTac SPECIFICATIONS

Property	Value	Test Method
Caliper (thickness)	0.080 inches	ASTM D1777
Grab Tensile Strength	50 (Min.) Lbs/in. Min.	ASTM D4632
Puncture Resistance	200 lbs. min.	ASTM E154
Permeance	0.10 (MAX) perms	ASTM E96, Method B
Elongation	50% min.	ASTM D4632
Pliability (2" Mandrel; 180° Bend)	No cracks in fabric or Rubberized Asphalt	ASTM 146 (modified)

GeoTac Composition

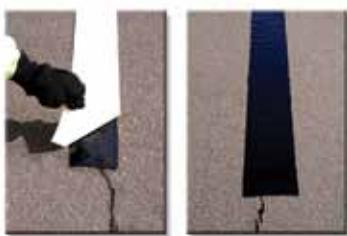


GeoTac HS SPECIFICATIONS

Property	Value	Test Method
Caliper (thickness)	0.065 inches 220 lb. (968 N)	ASTM D1777
Grab Tensile Strength	200 lbs. (968 N) min. 300lb.(134)	ASTM D4632
Puncture Resistance	300 lbs. (1344 N) min.	ASTM E154
Permeance	0.10 US perms max.	ASTM E96, Method B
Elongation	15% min.	ASTM D4632
Pliability (2" Mandrel; 180° Bend)	Pass at -25° F (-31.7° C)	ASTM 146 (modified)

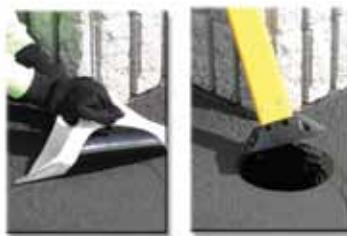
GeoTac HS Composition





QWIKSEAL is a peel and stick, modified asphalt compound ideal for sealing cracks, seams around pavement patches and concrete joints. Applying QWIKSEAL is as simple as blowing the pavement making sure the surface is clean and dry, unrolling QWIKSEAL and applying it to the surface. Warm the edges to assure a long lasting bond. Properly installed, QWIKSEAL prevent water intrusion and the deterioration it causes to the pavement. QWIKSEAL is compounded to perform in a wide range of climates and conditions.

Crafco QWIKSEAL is supplied in a preformed continuous strip either 4" or 2 1/2" wide and 50 foot long.



Use the Crafco **QWIKDOTS** system to adhere sign posts, rumble strips, speed bumps, parking bumpers, temporary signs or most anything else to both concrete and asphalt pavements. Crafco QWIKDOTS are pressure sensitive peel and stick modified asphalt adhesive pads.

Available in 6" diameter - 120 per box and 8" diameter - 80 per box.



The Crafco **QWIKSTIX** is a fast and easy way to adhere pavement markers or do small crack repairs. The only tool required is a small torch. Peal back the self release cardboard box and melt just enough to do the job. Single markers or touch up to a crack sealing project are ideal for the QWIKSTIX. QWIKSTIX work equally well on AC or PCCP pavements.



CRACK-STIX is a direct fired, rubberized crack and joint sealant. Easy to use, melts in minutes. Super resilient, self-bonding to asphalt or concrete. It is a rubberized sealant on a spool. Self-leveling. Simply the right choice for small repairs.

S31004

Crack-Stix in 2 Gal. Pail 1/2" Diameter 150 L.F.

(Note: L.F. means Lineal Feet)

CSX900 TORCH

SCSX900

Torch with trigger start/modified tip



Part Number	Product Name	Specification	Crack Sealing	Crack Filling	Joint Sealing
34200	PARKING LOT SEALANT	Crafco Specification		●	
34201	ROADSAVER 201	ASTM D6690 Type II (ASTM D3405, AASHTO M301	●	●	●
34202	PARKING LOT SEALANT TYPE 1	Crafco Specification	●	●	
34203	ROADSAVER 203 HIGH TEMP	ASTM D6690 Type I (ASTM D1190, AASHTO M173	●	●	
34211	ROADSAVER 211	ASTM D6690 Type I (ASTM D1190), AASHTO M173	●	●	●
34220	ROADSAVER 220	ASTM D6690, Type II, (ASTMD3405), AASHTO M301 ASTM DD6690, Type I, (ASTM D1190), AASHTO M173, and Federal Specification SS-S-164	●	●	●
34221	ROADSAVER 221	ASTM D6690 Type II (ASTM D3405), AASHTO M173, and Federal Specification SS-S-164	●	●	●
34222	ROADSAVER 222	ASTM D6690 Type II (ASTM D3405, AASHTO M301	●	●	●
34231	ROADSAVER 231	ASTM D6690 Type IV	●		●
34232	ASPHALT RUBBER TYPE 2	ASTM D5078		●	
34234	ASPHALT RUBBER TYPE 4	Crafco Specification		●	
34240	ASPHALT RUBBER TYPE 1	ASTM D5078		●	
34241	ASPHALT RUBBER PLUS	ASTM D6690 Type I (ASTM D1190), AASHTO M173	●	●	
34244	ASPHALT RUBBER PLUS TYPE 2	ASTM D6690 Type I (ASTM D1190), AASHTO M173 Modified	●	●	
34248	POLYFIBER TYPE 1	Crafco Specification		●	
34249	POLYFIBER TYPE 2	Crafco Specification		●	
34250	POLYFIBER TYPE 3	Crafco Specification		●	
34251	POLYFIBER TYPE 4	Crafco Specification		●	
34515	ROADSAVER 515	ASTM D6690 Type I (ASTM D1190), AASHTO M173 Modified	●	●	
34516	POLYFLEX TYPE 1	ASTM D5078	●	●	
34517	CRAFCO DF	ASTM D5078		●	
34518	POLYFLEX TYPE 2	ASTM 507D8, AASHTO D5978	●	●	
34519	FIBER ASPHALT	Crafco Specification		●	
34521	POLYFLEX TYPE 3	ASTM D5078		●	
34522	ROADSAVER 522	Crafco Specification	●	●	●
34526	POLYFLEX TYPE 4	Crafco Specification		●	
34532	SUPERFLEX	Crafco Specification		●	
34533	SUPERFLEX HT	Crafco Specification		●	
34534	ROADSAVER 534	ASTM D6690, Type II, (ASTM D3405), AASHTO M301, ASTM D6690, Type I, (ASTM D1190), AASHTO M173 and Federal Specification SS-S-164	●	●	

Part Number	Product Name	Specification	Crack Sealing	Crack Filling	Joint Sealing
34651	SUPERSEAL 444/777	ASTM D 7116 Type I			●
34655	SUPERSEAL 1614A	ASTM D 7116 Type II			●
34656	SUPERSEAL LOW MOD	ASTM D 7116 Type II			●
34902	ROADSAVER SILICONE HS	ASTM D 5893			●
34903	ROADSAVER SILICONE SL	ASTM D5893			●
34660	SUPERSEAL	Federal Specification			●
34661	200E SEALANT	SS-S-200E			●
34524	PAVEMENT ADHESIVE*	Crafco Specification			●
34281, 82/83/84 85/86/87	POLYPATCH*	ASTM D5167	●		
33339	MASTIC ONE	Crafco Specification	●		
34951 to 58	TECHCRETE*	Crafco Specification	●		
34269	HOT APPLIED BITUMINOUS MARKER ADHESIVE*	ASTM D4280 and D4383			●
34270	FLEXIBLE PAVEMENT MARKER ADHESIVE*	ASTM D5167			●
34271	LOOP DETECTOR SEALANT 271*	ASTM D5167			●
34681	DETACK*	Crafco Specification			
34500	HIGH SLOPE SEALANT*	Crafco Specification		●	
	SPRAY PATCHING*		●		



HBR-XL Backer Rod

For Use with Hot Applied Sealant

PART #	SIZE	WEIGHT PER BOX	FEET PER BOX
S34616-01	3/8"	15#	3600
S34617-01	1/2"	15#	2500
S34618-01	5/8"	15#	1550
S34615-01	7/8"	15#	850
S34612-01	1"	15#	550
S34614-01	1 1/4"	15#	400
S34610-01	1 1/2"	15#	552
S34609-01	2"	15#	360

Hand Held Backer Rod Installation Tool for proper depth
1/2", 3/4" or 1" available

HBR Backer Rod

Cold Applied for Silicone Sealant Only

PART #	SIZE	WEIGHT PER BOX	FEET PER BOX
S34621-01	1/4"	15#	6400
S34626-01	3/8"	15#	3600
S34627-01	1/2"	15#	2500
S34620-01	5/8"	15#	1550
S34625-01	3/4"	15#	1100
S34622-01	7/8"	15#	850
S34623-01	1"	15#	550
S34624-01	1 1/4"	15#	400
S34608-01	1 1/2"	15#	552
S34611-01	2"	15#	360



Sherwin Industries, Inc.
MILWAUKEE, WISCONSIN
ESTABLISHED 1938

Phone: 800-525-8876 • Fax: 414-281-6404

RoadSaver Silicone Sealant

Crafco RoadSaver Silicone conforms to specifications for low modulus silicone for many highway departments, federal agencies and the FAA. The product also meets and exceeds all requirements of ASTM D5893 "Standard Specification for Cold-Applied Single Component, Chemically Curing Silicone Sealant for Portland Cement Concrete Pavements".

Joint Design for Crafco RoadSaver Silicone Sealants in Joints in PCC Pavements Joint Design

*Join Width	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"
Minimum Sealant Recess	1/4"	1/4"	5/16"	5/16"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"
Backer Rod Diameter ¹	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 1/2"	1 3/4"	2"
Sealant Bead Thickness ^{2,3}	1/4"	1/4"	1/4"	5/16"	3/8"	7/16"	1/2"	1/2"	1/2"	1/2"	1/2"
Minimum Joint Saw/Reservoir Depth	1 1/8"	1 1/4"	1 1/2"	1 3/4"	1 7/8"	2"	2 3/8"	2"	2 7/8"	3 1/8"	3 3/8"
Minimum Backer Rod Depth	1/2"	1/2"	5/8"	11/16"	3/4"	13/16"	7/8"	1"	1"	1"	1"
Estimated Usage Non-Sag (ft/gal)	245	149	112	70	51	35	26	23	18	16	15
Estimated Usage Self-leveling (ft/gal)	273	172	130	82	58	41	31	27	22	20	19

1 Backer rod diameter should not be varied from specified dimensions. If larger sizes are used, increased saw depth is needed.

2 Sealant bead thickness can vary by +25% of design value.

3 Never install Roadsaver Silicone to a depth greater than the joint width (1 to 1).



Roadsaver Silicone SL



Roadsaver Silicone NS



Crafco RoadSaver Silicone SL is a low modulus silicone which offers the performance and durability characteristics of conventional non-sag silicone with the ease of installation of self-leveling materials. Crafco RoadSaver Silicone SL is supplied as a ready to use one component moisture curing system. RoadSaver Silicone SL offers outstanding weathering resistance, remains flexible down to temperatures as low as -50°F (-46°C), is jet-blast resistant and will maintain field serviceability when exposed to intermittent fuel and oil spills. It bonds strongly to concrete joints without the use of a primer. Crafco RoadSaver Silicone SL can be used in all typical concrete joint applications on highway and airfield pavements in all climates. RoadSaver Silicone sealant is compatible with asphalt pavement. The leveling characteristics insure that the required joint wetting for development of appropriate adhesion occurs during application, with no tooling required. RoadSaver Silicone SL has been a top performing quality Crafco product for over 15 years, and has achieved the Crafco CERTIFIED PERFORMANCE designation.

Crafco RoadSaver Silicone NS is a uniquely formulated low modulus non sage silicone for sealing joints in Portland cement concrete pavements in all climates. The product is supplied as a ready-to-use, one component moisture curing system, which provides a lasting and flexible seal. Crafco RoadSaver Silicone can be used in all typical concrete joint applications, on highway and airfield pavements, and is compatible with asphalt pavement. Crafco RoadSaver Silicone offers outstanding weathering resistance, remains flexible down to temperatures as low as -50°F (-46°C), is jet-blast resistant, and will maintain field serviceability when exposed to intermittent fuel and oil spills. The sealant bonds strongly to Portland cement concrete joints without the use of a primer. To achieve the proper joint configuration, Crafco Silicone NS must be toolled. RoadSaver Silicone has been a top performing quality Crafco product for over 15 years, and has achieved the Crafco CERTIFIED PERFORMANCE designation.

RoadStar & Highway Star Joint Sealant Pumps



5 Gallon

- German Designed & Engineered
- 38:1, 48:1 or 59:1 Power Ratios
- Built and Serviced in the U.S.A.
- Chopping Check Style Pump
- 3" Post Double Elevator / Ram
- Air Line Filter / Lubricator / Regulator
- Applicator Valve or Gun & Wand
- Operating and Service Manual
- Pump fluid section can be rotated 180° for ease of mounting in truck or trailer.
- 360° Drum Locator / Clamp holds drum in place while traveling. Can be opened right or left for convenience while changing drums.
- Stainless Steel or Zinc Plated external surfaces and fasteners for maximum corrosion protection in outdoor applications.
- 5 Gallon Pail Conversion Kit Available



55 Gallon

CMT Joint Plow Tools (JPT)

PART #	DESCRIPTION
S32222	1/4" JPT Style A or B
S32222 A	3/8" JPT Style A or B
S32222 B	1/2" JPT Style A or B
S32222 C	5/8" JPT Style A or B
S32222 D	3/4" JPT Style A or B
S32222 E	1" JPT Style A or B

CMT Tapered Joint Plow Tools (TJPT)

PART #	DESCRIPTION
S32223	5/8" TJPT 19 Degrees
S32223 A	3/4" TJPT 19 Degrees
S32223 B	3/4" TJPT 10 Degrees
S32223 C	1" TJPT 10 Degrees
S32223 D *NEW	1/2" TJPT 7 Degrees

A & B Styles 1/2"

Available in:

1/4" Wide			NEW SIZE
3/8" Wide	Also Available	Also Available	W=1/2"
1/2" Wide	W=5/8"	W=1"	N=1/8" (7 Taper)
5/8" Wide	N=3/16"	N=1/2"	
3/8" Wide			
1" Wide			



Material Handling Tools



Crafco Pour Pot with Wheels

PN# 40200

Used to apply a uniform band of sealant to a crack or joint. Wheeled for ease of use. Gravity feed with shut off lever.

Crafco Hand Held Pour Pot

PN# 40201

For application of thin crack sealant to a joint or crack. Gravity feed with shut off lever.

Crafco TechCrete Bucket

PN# 32263

For transporting TechCrete or PolyPatch material from the Patcher I or Patcher II to the repair area.

Crafco Material Handler

PN# 56375

For handling and distributing of PolyPatch material from the Patcher I or Patcher II to the repair area. Propane heated with material side discharge gate.

Crafco Heavy Duty Squeegee w/ Aluminum Handle

PN# 27199

Crafco Replacement Blade PN# 27195
4 in. x 18 in. x 3/8" in.

Patching Tools

Crafco Ironing Wand w/ 4 ft. 6 in. handle

PN# 32243

Used as a leveling and a warming tool for the proper application of TechCrete.

Crafco Chute Scraper w/ 2 ft. handle

PN# 32246

Used for cleaning the chute on the Patcher I and Patcher II.

Crafco Tank Scraper w/ 6 ft. handle

PN# 32258

Used for cleaning the Patcher I and Patcher II tanks.

Crafco Shoebox w/ 6ft. Handle

PN# 32350 - 8"x8"x3" PN# 32255 - 8"x8"x6"
 PN# 32351 - 8"x10"x3" PN# 32250 - 8"x10"x6"
 PN# 32352 - 8"x12"x3" PN# 32252 - 8"x14"x6"
 PN# 32353 - 8"x14"x3" PN# 32253 - 8"x14"x6"

Used for assisting placement of PolyPatch. Use the size suitable for your application. Fill using the Material Handler or TechCrete Bucket.

Crafco Hand Torch

PN# 25012 - 20 ft. Hose

PN# 25016 - 12 ft. Hose

PN# 25021 - 50 ft. Hose

Used on the EZ Pour 50, Patcher I and Patcher II.

Crafco Cold Air Lance

PN# 42648

Use this tool in conjunction with an air compressor to blow cracks and joints clean.

Crafco Heat Lance

PN# 45650

Requires air compressor and propane supply. Features Auto ignition and includes moisture trap, regulator and 40 ft. hose.

Crafco Heat Lance w/ Regulator

PN# 32259

Use to dry out, heat and clean cracks. Requires air compressor and propane supply. Includes regulator and 20 ft. hose.

Sealing Tips



Super Shot Drip Stopper

Use with Crafco Super Shot sealing tip. Stops sealant drip once wand trigger is released

- ① - PN# 27114 Tip Adapter
- ② - PN# 50270 Duckbill Valve
- ③ - PN# 27115 Shroud - Tip



Swivel Applicator

3" - PN# 27120

4" - PN# 27130

Use with Super Shot Melter & EZ Pour Melters with or w/o Drip Stopper.



Crafco Duckbill

PN# 50270

Use with Super Shot Melter wands to prevent dripping of material.



Crafco Sealing Foot / Flush

Used for random asphalt and concrete cracks.

PN# 27154 - Sealing tip/ft assembly 1/4" flush

PN# 27155 - Sealing tip/ft assembly 3/8" flush



Crafco Sealing Foot / Protruded

Use for straight asphalt and concrete joints.

PN# 27159 - Sealing tip/ft assembly 1/4" protruding

PN# 27160 - Sealing tip/ft assembly 3/8" protruding



Crafco Joint Sealing Tip

Use for straight asphalt and concrete joints.

PN# 27146 - Sealing tip assembly 1/4"

PN# 27147 - Sealing tip assembly 3/8"



Crafco Round Sealing Tip

Multi-purpose for random cracks and joints.

PN# 27170 - Sealing tip assembly 3/8"

PN# 27171 - Sealing tip assembly 1/2"



Crafco Applicator Disk

Used for over banding, great labor saver.

PN# 27162 - 3" Disk Assembly

PN# 27163 - 4" Disk Assembly

PN# 27164 - 6" Disk Assembly

L.A.B. Torch Hot Air Lance Equipment

S70	L.A.B. Torch Hot Air Lance Model B: made entirely of stainless and hard chromed, plated steel. Includes stainless steel aluminum wheel kit.
S70A	L.A.B. Torch Hot Air Lance Only Model B
SWKC	L.A.B. Torch Hot Air Lance Wheel & Guard
SHK-40	40' Hose Kit
S1B50-6	50' Hose Kit
SHK-60	60' Hose Kit
SHBCLAB	Hot Box stainless steel
S7139	Protective Hose Cover per foot
S3010	P.A. Torch hot air lance, 50' hose kit, regulator, and quick connect couplers
S71	Cold Air Lance with trigger demand switch for blowing out debris from cracks/joints
S70C	L.A.B. Torch Hot Air Lance Model C: complete unit

Model B - Classic & Hot Shot

Heated Air Temperatures: 400° F to 2600° F

Exit Heated Air: Up to 1000 ft. per second

Propane: 5 to 30 psi

Compressed Air Supply: 60 - 100 cfm, 50- 175 psi (Hot Shot)

Propane Consumption: 10 Lbs per hour @ 20 psi

100-185 cfm, 50 - 175 psi (Classic)

BTU's: To 1,000,000

Lance Weight: 11 Lbs

Stainless Steel Construction

**Model C Blaster**

Heated Air Temperatures: 600° F to 3000° F

Exit Heated Air: Up to 3000 ft. per second

Propane: 5 to 30 psi

Compressed Air Supply: 150 + cfm, 90- 175 psi

Propane Consumption: 12 Lbs per hour @ 20 psi

BTU's: To 1,500,000

Lance Weight: 12 Lbs

Stainless Steel Construction

**Complete Package Includes:**

- Hot Air Lance Unit
- Hose Kit Assembly (40', 50', 60') in protective hose cover
- Wheel Kit Debris Guard - Optional
- Shoulder Strap
- Heavy Duty Air Filter
- LP Regulator & Gauge
- Quick Connect Fittings
- Safety & Operation Manual
- Warranty Card



EZ Mini Melter System

Heat, apply and Detack with Crafco quality products featured in the
Crafco EZ Mini Melter System of crack sealing.

Crafco Mini Melter 30
Part Number 57600



The Mini Melter 30 (air jacketed hand agitated) is a 30 gallon sealant melter and dispenser that can be used in conjunction with the Mini Melter 10 or the Crafco Pour Pot with Wheels.



The Mini Melter 10 is a hand agitated, 10 gallon melter/applicator, that will melt sealant for application in approximately twenty minutes. The wheeled melter easily follows random cracks for efficient crack sealing.

The Wheeled Pour Pot is used to apply a uniform band of sealant to a crack or joint. Wheeled for ease of use and ideally used with the Mini Melter 30.

The Mini Melter System is an ideal optional "add on" to the Crafco Super SealCoater.

To double sealant life, rout cracks prior to sealing with the Crafco Pavement Cutter.

Crafco Mini Melter 10
Part Number 57500



Crafco Pour Pot w/ Wheels
Part Number 40200

- Applies over hot sealant
- Eliminates blotting
- Increases production
- Reduces traffic closures
- Protects sealant integrity

- Eliminates Tracking
- Eliminates sticking
- Decreases labor cost
- Reduces traffic closures

Open traffic immediately after crack sealing by eliminating the "stick" from newly applied hot sealant. **DETACK** is supplied ready to use in 5 gallon (19L) plastic pails. To use, **DETACK** is poured in to typical hand pump pressurized garden sprayers. **DETACK** should be applied to the sealant immediately after sealant is placed, or at any time after sealant is placed when surface tack is present. Usage rate of **DETACK** is typically 1 gallon (3.8L) per 1000-2000 linear feet (305-610m) of sealed cracks. **DETACK** should be applied to cover the sealant surface with minimal excess of application onto the pavement surface.



Tools, Products and Equipment

<u>Part #</u>	<u>Description</u>
S27199 A	Small V-shaped Squeegee w/ wooden handle
S27199 B	Pull-Type V-shaped Squeegee w/ wooden handle
S27195 A	V-shaped Squeegee Rubber Refill (Small)
S27295 B	Pull-Type V-shaped Squeegee Rubber refill
S26010	Heat Transfer Oil - 55 gal. Drum-\$25 drum deposit
S26010 A	Heat Transfers Oil - 5 gal. Pail
S40200 W	Wheels for Speed Bander (steel)
S40200 A	Weld Plates for Speed Bander
S0054	3 Gal. Pour Pot w/ stand and leg
S41A	Chippers Broom Head Only
S53	Wooden Tapered Handle 6' for chipper & steel bristle brooms
S55	Steel Bristle Cleaning Broom w/ handle
S62	Steel Bristle Broom - New Style w/ handle
S58	Asphalt Tack Coating Brush 4" wide
S59	Corn Broom
S60	Asphalt Rake
S56	Asphalt Hand Tamper (Head Only)
S56 A	Asphalt Tamper Handle
S50	30" Aluminum Asphalt Lute Complete
S50 A	36" Aluminum Asphalt Lute Complete
S50 B	42" Aluminum Asphalt Lute Complete
S107-1097	Mini Melter Jr. 10 Gal. 16" L x 16" W x 24" H with 2" molasses valve
S29280	2" Molasses Valve for mini melter and 55 gal. drum
S67	Propane hand Held Torch 10' hose w/ shut off valve
S1235	100# Paf-2 - oxidized, steep, hot pour crack filler
S38012	Hand Cleaner 38 - Pint Bottles
S88	Glenzoil 20 Plus - 5 gal. pails

Pave Pro 100% Organic Asphalt Remover - EPA Approved

<u>Part No.</u>	<u>Container Size</u>
S86	5 gal pail
S86A	20 gal drum
S86B	35 gal drum
S86C	55 gal drum
S2GH5P	Pave Pro 2 gallon Hand Sprayer Pump w/ Viton seals <i>*Plus shipping charges</i>
SVMDP	Venus Standard Duty Metal Drum Pump <i>*Plus shipping charges</i>



GREASE, OIL, ROAD TAR ASPHALT CLEANER



Solvall is a ready-to-use, water-rinsable liquid, which easily removes coal tar sealer, asphalt sealer, crack sealer, roofing tar, mastic, tack coat, or oil and grease from washable surfaces. It can be safely used on tools, equipment, vehicles, sidewalks, flooring, siding, clothing and carpeting. Solvall will clean up fresh spills, splatters and over-sprays, as well as caked-on messes.

Part No. S85 1 gal.,

Part No. S85B 1 qt spray bottle



Paving Equipment Cleaner is a safe, effective substitute for diesel fuel to clean and prevent asphalt build up on tools and equipment. Paving Equipment Cleaner starts to work immediately and is non-toxic, non-hazardous, non-flammable, and non-ozone depleting. In addition, Paving Equipment Cleaner is non-reactive.

Part No. S89



Oil-Flo is a specialized product for removing organic stains such as asphalt, tar, oils tree pitch, adhesive stickers, gum, candle wax, silicon caulk, roof tar, oil, etc. It is a versatile and effective cleaner that works especially great for removing graffiti. Oil Flo is safely used on glass, vinyl, concrete, metals, carpets and clothing. Oil Flo is the proven answer to cleaning asphalt, spills, overspray, equipment, clothes, and concrete. Non-volatile.

Part No. S85A 1 gal.

ASPHALT RECYCLER / HEATER

A Falcon Asphalt Recycler:

1. Recycles asphalt chunks and millings
2. Holds hot mix overnight
3. Heats cold mix without burning
4. Provides year-round, on-site access to hot mix
5. Reduces labor and material costs of asphalt maintenance
6. Conserves aggregate petroleum resources
7. Enables asphalt repairs to be made in a safer manner



2-Ton Hopper, Diesel Fuel Source, Auto Temp Control, Solvent Sprayer, Single Axle Trailer



4-Ton Hopper, Diesel Fuel Source, Auto Temperature Control, Hydraulic Doors, Warning Light, Battery Charger



3-Ton Hopper, Diesel Fuel Source, Auto Temperature Control, Dump Box Trailer, Dual Burner Recycling



5-Ton Slip-in Diesel Fuel Source, Auto Temp Control, Shoveling Apron, Hydraulic Doors



1/2-Ton Capacity Hopper, Propane Fuel Source, Automatic Temperature Control, (Sized to fit a utility vehicle)



2-Ton Capacity Hopper, Diesel Fuel Source, Automatic Temperature Control, Shoveling Apron, Steel Loading and Material Doors

AVAILABLE FEATURES AND OPTIONS

CAPACITY	STANDARD FEATURES
<ul style="list-style-type: none"> • 2 TON • 3 TON • 4 TON • 5 TON • 6 TON 	<ul style="list-style-type: none"> • Diesel Fuel Source • Automatic Temperature Controls • 8-Bolt Wheels • Electric Brakes • Fully Insulated • Triple Wall Construction • Hopper Access Platform
OPTIONS RECYCLING	BRAKES
<ul style="list-style-type: none"> • Single Burner Recycler • Dual Burner Recycler 	<ul style="list-style-type: none"> • Electric • Surge
FUEL SOURCE	TACK TANK
<ul style="list-style-type: none"> • Diesel • Liquid Propane • Vapor Propane 	<ul style="list-style-type: none"> • Heated / Insulated / Gravity Feed • Spray System with Hose Reel • Pour Pot with mounting mechanism
BURNER MAINTENANCE AND TUNE UP KITS	MARINE GRADE BATTERY CHARGER
CONTROLS	VIBRATORY ROLLER / PLATE COMPACTOR
<ul style="list-style-type: none"> • 50/550 Rear Temperature Gauge • 24 Hour Timer • 7 Day Timer • Hour Meter • Hydraulic Loading and Unloading Doors 	<ul style="list-style-type: none"> • Vibratory Roller • Plate Compactor • Basket for Mounting Vibratory Roller / Compactor Plate • Water Tank
SAFETY & LIGHTING	OTHER
<ul style="list-style-type: none"> • LED Upgrade • Arrow Board • Arrow Stick • Strobe Warning Light • Fire Extinguisher • Hoist with 12 Volt or Manual Winch 	<ul style="list-style-type: none"> • Solvent Sprayer • Tool Holder • Tool Box • Electric Overnight Heat • Cold Weather Package • Water Tank • Spare Tire / Spare Tire Holder

Model SST-2

Solar Assisted Speed Limit Trailer

Features

- Two character display, 14" X 19", available in high or low density
- Heavy-duty welded construction
- Fold down sign support
- Manual winch with safety brake
- 14" automotive type wheels
- 4 corner drop jacks
- Tandem towing capability
- Solar assist battery powered
- Constant horizontal positioning of solar panels (automatic)
- Low density thermoplastic lockable battery enclosure

Options

- Cellular DTMF control changes posted speeds instantly from any phone with tone confirmation
- Calendar
- Radar
- Custom colors

Trafcon Solar Assist Sign Trailers are available in a variety of sign, lighting and trailer configurations to meet D.O.T. Requirements.



MB-ADS

Vehicle Mounted Dynamic Sign

The vehicle-mounted dynamic sign combines the flexibility and convenience of dynamic messaging with complete mobility. This enables the user to reconfigure the signs to suit a wide variety of vehicle makes and styles.

The vehicle-mounted sign utilizes the new BRICK® sign system, which encompasses many benefits:



- The system is fully modular; BRICKS® can be added or removed according to specifications.
- Once mounted, the sign can be easily lowered or raised with a push of a button.
- Full graphics and text can be programmed in any language utilizing a laptop computer or handheld controller.
- The system has excellent angularity and visibility, and meets or exceeds all industry standard for both changeable message signs and arrow boards.
- Mounts are available in a variety of factory paint colors.

MB Series

Vehicle Mounted Advance Warning Panels

- Lamp hoods fastened with stainless steel machine screws into insertion nuts - eliminates loose hood condition
- Neoprene gaskets between lamps and sign panel - less vibration - extends lamp life
- Aluminum frame - all welded construction with mid-panel bracing
- 20' remote cable - allows for mounting on most vehicles - additional and custom lengths available
- SIGN PANEL Construction - sandwich type Material - aluminum front and back panels- .063" sheet
- Framework welded 3" x 1" x 125" extruded aluminum channel
- Lamps - PAR 36, 11 Watt, Polystar polycarbonate OR PAR46 - 4412A amber sealed beam lamps
- Hoods - 360 degrees high impact plastic
- Harness- 20'



TC1-ADS

Trailer Mounted Dynamic Sign

The Arrow Dynamic Sign™ (ADS) combines the positive attributes of both an arrow board and a dynamic message sign. This convenience and flexibility enables the user to reconfigure the signs to fit any application.

The ADS utilizes the new BRICK® sign system, which encompasses many benefits:

- The system is fully modular, BRICKS® can be added or removed according to specifications.
- Sign configurations can be mounted horizontally or vertically on the standard back plane of an arrow board trailer.
- Full graphics and text can be programmed in any language utilizing a laptop computer or handheld controller.
- The system has excellent angularity and visibility, and meets or exceeds all industry standards for both changeable message signs and arrows boards.
- The package comes complete with a durable, all-steel trailer and energy-efficient solar power.



TC1 Series

Solar Trailer Mounted Advance Warning Panels

Features

- Long lasting LED lamps
- LCD mode display on controller and new LCD bar graph voltmeter
- Wide wheel base for towing stability
- Microprocessor based controller
- "HFM" technology for extended lamp life
- Available fully automatic battery charger
- 14" automotive wheels and tires
- Quick change battery compartment for your convenience
- Multi stage electrostatic paint process
- Rugged polyethylene low density box and fenders
- Heavy Duty "A" frame draw bar
- Removeable draw bar for security
- 1 screw jack on tongue and 4 corner drop jacks
- Built in hour meter
- LCD, backlit, touch pad control



Solar Panel Features

- Single Crystal panels provide higher performance
- Panels can maintain horizontal position in operating and transport modes
- Solar panels are mounted at the top of the sign for vandal resistance
- Constant horizontal solar panel positioning



Solar Charging System

- Single, high efficiency, solar panel size rated (upgrades available)
- Continuous intensity feature-constant lamp intensity to cutoff
- Low battery cutoff - 11V
- Solid state controller
- Battery condition indicator LED bar graph
- Solar panel mounting - continuous horizontal positioning
- Audible low battery warning

Technical Specifications

Standard Trailer Construction

- Heavy duty MIG welded steel tubing construction
- Heavy duty locking disk brake holds the message sign at any desired position.
- Riveted aluminum message sign cabinet powder coated flat black, with cooling fans
- Axle assembly with leaf springs: 2000 lb. Capacity
- Tires: 15"
- Four corner swiveling jacks
- Powder coated
- Telescoping/rotating tower, hand winch only

Mini Matrix Message Director™ Dimensions and Weights

- Length with Hitch: 140" (350cm)
- Cabinet Size: 96" (244cm)
L X 55" (140cm) H X 12" (30.5cm) D
- Trailer Frame Width: 76" (193cm)
- Operating Height: 141" (358cm)
- Traveling Height: 99" (252cm)
- Approximate Weight: 99" (252cm)
- Removable drawbar
- OPTIONAL: Outrigger Stance: 120"
(305cm) by 76" (193cm) L



Model Number	WVTM
Style/ Tower Type	Mini Matrix Msg. Director Hand winch, 360° Rotation
Board Type	Matrix Variable Fonts & Graphics
Character Rows x Number	Minimum 4 Lines X 14 Maximum 1 Line X 7
Approximate Legibility	750ft 122 m - 595 m

Technical Specifications

Standard Trailer Construction

- Axle assembly with leaf springs: 2000lbs capacity
- Tires: 15" automotive
- Heavy duty winch with safety brake allows one person to raise arrow board
- Single locking device to hold arrow board in place while in operation or travel modes
- Optional ring or combo ball/pintle hitches available
- Optional auto locking pins for stabilizer legs

Trailer Specification

- Length with drawbar: 114.5" (290.8cm)
 - Length without drawbar: 63.0" (160.0cm)
 - Arrow board width: 96.0" (243.8cm)
 - Trailer Frame Width: 72.0" (182.9cm)
 - Operating Height: 134.5" (341.6cm)
 - Traveling Height: 94.5" (240.0cm)
 - Approximate Weight (solar): 1200 lbs (544kg)



Travel position



Model No.	Solar panel(s) wattage*	BATTERY BANK	# of Lamps	# of arrow modes	OPTIONS AVAILABLE
WTSP55-LSA	50-55	450	15	7	
WTSP55-LSAC	50-55	450	25	12	
WTSP75-LSA	65-80	450	15	7	
WTSP75-LSAC	65-80	450	25	12	
WTSP110-LSA	85-110	450	15	7	
WTSP110-LSAC	85-110	450	25	12	
WTSP150-LSA	130	450	15	7	
WTSP150-LSAC	130	450	25	12	<ul style="list-style-type: none"> • Battery charger or meter package • Auto locking stabilizer legs • 4D and 8D batteries (acid or gel) • Rear tow

Speed Limit Directors

WSLD2430-A

Features

- Sun shades over 12" - 18" characters
- Customize your own activation, violation and extreme speed settings
- Battery/solar powered or AC
- New technology lowers maintenance costs and increases energy efficiency
- Powder coated paint
- Single-pole mounted

Common Standard Features for Pole Mounted Directors

- R2-1 regulatory style and sizes
- High output amber LEDs with Automatic Night Dimming Circuit
- 12 VDC Beacon Flasher Circuit included (Beacons optional)
- Adjust regulatory numbers through optional timer or pager
- Optional radar package flashes speed limit when speed limit is exceeded

Standard Sign Construction

- Approach only K band radar, adjustable sensitivity selection
- Aluminum cabinet
- Sunshades
- Three selectable settings on control panel
- Solar panel regulator and low voltage disconnect for 12 VDC (solar charged systems)
- Remote output terminals on over speed and extreme speed settings for accessory warning devices like strobe light and/or audio alarms



Model No.	Roadway usage	* Sign Size	Power Source	LED Character Size (Nominal)	SIGN OPTIONS
WSLD2430-A	Standard	24" x 30"	110 VAC	12"	• 365 day timer
WSLD2430-S	Standard	24" x 30"	55 Watt Solar	12"	• External lights or alarms
WSLD3648-A	Expressway	36" x 48"	110 VAC	14"	• Red LEDs
WSLD3648-S	Expressway	36" x 48"	55 Watt Solar	14"	• Km/h
WSLD4860-A	Freeway	48" x 60"	110 VAC	18"	• Pager
WSLD4860-S	Freeway	48" x 60"	55 Watt Solar	18"	• Yellow diamond grade sheeting

*Consult local codes for exact sizes.

ADD: -R to any model = Radar Option | ADD: -T to any model = Programmable Timer Option

ADD: -P to any model = Pager Option

104257-001 Aluminum 4" Pole with Pedestal Base

Contact Factory for a variety of flashing beacon options.

Pole Mounted Radar Speed Director

Model WSD2430P

Standard Features for Pole Mounted

Regulatory Pole Sign (WSD2430P)

- Cabinet size: 24" (61cm) W X 30" (76cm) H X 8.5" (22cm) D
- Weight: 40 lbs (18kg)
- 12" Characters with sunshades
- Dual power standard (12VDC/120VAC)
- Diamond grade reflective sheeting (resembling a R2-1)

Pole Options

- Aluminum or steel mounting poles
- Flashing Cautions Beacons
- Larger solar panels and/or more batteries
- Regulatory signs



Model No.	Style	Charging System	Misc.
WSDP-A	Pole Mount Kit - 18" letters	110 VAC	Customer to provide pole, regulatory sign and electrical hook up
WSDP-S	Pole Mount Kit - 18" letters	40/55 Watt Solar	Includes radar sign, solar panel and frame, aluminum battery box and gel cell battery
WSD2430P	Pole Mount Kit - 12" letters	110 VAC or 12 VDC	Includes radar sign and pole mounting hardware
WSD2430P-S	Pole Mount Kit - 12" letters	12 VDC Solar System	Includes radar sign, solar panel, and gel cell battery

Portable Traffic Signal Systems

SQ2 & SQ2MPR
Portable Traffic Control System



SQ3TS
Portable Traffic Signal With Solar Assist



SQ2 & SQ2-MPR Data Sheet

Operating Position

Signal carts per system	4
Signal heads per cart	1
Signal carts per traffic phase	2
Signal cart footprint	31" x 25-1/2"
Signal lamp type	12" diameter LED
Signal height	96" from bottom of green to the road surface (per MUTCD)

Signal Heads

Signal Head Type	Aluminum (yellow)
Visor Type	Poly (black)
Face color options	Standard black / optional yellow
Lamp Type	LED
Lamp size	12 inch diameter
Back plate	Available option

Power Supply

Operating power source	12 volt system / 2 - 12 volt batteries
Battery capacity	7 days of continuous use @ 72°
Charging	110 volt on board charger

System Setup

Lift system	Manual hand crank
Locating signal carts	Manually wheeled into position
Signal cart weight	420 lbs

Available Options

GPS monitoring	Provides information on location, operating status, battery voltage
Knockdown	Allows the Horizon signal to operate in conjunction with a standard street corner controller
Back plates	Provides an additional background around the signal head to enhance visibility
Flagger / pilot car module	Allows the flagger or pilot car driver to control the signal status with built-in safeguards
Traffic counter	Can be attached to the portable signal to count traffic through the work zone
Work zone light	Provides visual signal status inside the work zone
Transport trailer	An enclosed trailer to transport, store and accommodate charging of SQ2 signals

SQ3TS Data Sheet

Operating Position

Signal heads per trailer	2
Lower signal height	96" from bottom of green to the road surface (per MUTCD)
Upper signal height	213" from bottom of green to the road surface (per MUTCD)
Signal head rotation	180 degrees rotation provides flexible trailer placement
Signal lamp types	12" diameter LED
Upper signal arm extension min / max	68" to 109" (from end of trailer)
Solar collection capability	450 watts minimum
Solar panel position	Flat
Stabilizers per trailer	4

Tow Position

Tow type	dual tow signal trailers
Tow length	290-1/2 inches (two trailers)
Tow height	89 inches
Trailer width	85 inches
Trailer weight	3000 lbs. per trailer
Axle Type	Independent Torflex
Tire Size	ST205/75R15 LRC
Trailer brakes	Standard

Signal Heads

Signal Head Type	Aluminum (yellow)
Visor Type	Poly (black)
Face color options	Standard black/optional yellow
Lamp type	LED
Lamp size	12 inch diameter
Back plate	Available option

Available Options

GPS monitoring	Provides information on location, operating status, battery voltage
Knockdown box	Allows Horizon signal to operate in conjunction with a standard street corner controller
Preemption	recognizes emergency vehicles and changes signal status as programmed
Back plates	Provides an additional background around the signal head to enhance visibility
Traffic Actuators	Facilitates traffic actuation through motion sensors or true presences detection
Traffic counter	Can be attached to the portable signal to count traffic through the work zone
Flagger / pilot car module	Allows the flagger or pilot car driver to control the signal status with built-in safeguards
Intelligent traffic sensing	The portable signal system will automatically adjust time based on learned traffic patterns
Work zone light	Provides visual signal status inside the work zone

Power Supply

Operating power source	12 volt system utilizing 16-6 volt batteries
Battery capacity	1720 amp hours at a 20 amp hour rate
Charging option 1	solar via 450 watts minimum per trailer
Charging option 2	110 volt on board charger

SP-10***Surface Preparation*****Features**

- Unitized welded steel frame for rugged low maintenance performance
- Vibration isolated engine for operator comfort
- Six heavy duty 3/4" cutter shafts to accommodate larger diameter cutters on a full 10" loaded cage for increased productivity
- Cutter options: Tungsten Carbide Tipped Cutters, Hardened Steel Beam Cutters, Carbide Tipped Milling Flails. All cutters are interchangeable on one single cage
- Safety/Control Brake System with fingertip controlled tension and quick release hand lever to ensure the utmost in operator safety and control
- Grease fittings on all spindle, wheel, pivot shaft and axle bearings for continuous smooth operation
- Locking depth control hand wheel for maintenance of precision cutting depth
- Three row V-belt/Timing Belt drive train to minimize down time
- Castering nose wheels for easy handling, even in the middle of a cut
- Optional Dust Control adapter for dust free operation

SPECIFICATIONS

Machine Weight	435 lbs (197.7 kg.) fully loaded with single spaced TCT Cutter
Engine	Briggs & Stratton Vanguard OHV 9 HP., Honda GX 270 9 HP.
Width of Cut	10" (250 mm.)
Number of Cutter Shafts	6
Cutter Diameter	2.28" (57.9 mm.)
Cutter Shaft Diameter	.75" (19.05 mm.)
Working Distance from a Wall	2.5" (63.5 mm.)
Cutter Options	TCT, Carbide Tipped Milling Flails, Hardened Steel Beam Cutters



PD-39/Accessories and PD-39P

**Model
and/or
Part No.**

Specifications

(All drivers are equipped with the exclusive Rhino Alloy, Double Valve Piston.)

- | | | |
|---|------------------|---|
| 1 | PD-39
070006 | Light Weight Medium Duty Post Driver with a 3 5/8" (92 mm) I.D. Master Chuck, uses 42 CFM (1.19 m ³ /min) @ 90 psi (6.4 kg/cm ²). Approx. Wt. 39.9 lbs (18.1 kg) |
| 2 | PD-39P
070016 | Light Weight Medium Duty Panel Post Driver with a 2 1/8" (53.98 mm) I.D. Chuck, uses 42 CFM (1.19 m ³ /min) @ 90 psi (6.4 kg/cm ²). Approx. Wt. 41 lbs (18.6 kg) |
| 3 | 070330* | 3" (76.2 mm) I.D. PD-39 Chuck Adapter |
| 4 | 070320* | 2 1/2" (63.5 mm) I.D. PD-39 Chuck Adapter |
| 5 | 070319* | 2" (50.8 mm) I.D. PD-39 Chuck Adapter |
| 6 | 070334* | PD-39 Channel Post Chuck Adapter - 3 to 4 lbs/ft Posts |
| 7 | 070337* | PD-39 Channel Post Chuck Adapter - 2 to 2.75 lbs/ft Posts |
| 8 | 070338* | PD-39 Channel Post Chuck Adapter - 1.2 to 1.5 lbs/ft Posts |

*Chuck adapters only available for the model PD-39

PD-45 and Accessories

**Model
and/or
Part No.**

Specifications

(All drivers are equipped with the exclusive Rhino Alloy, Double Valve Piston.)

- | | | |
|---|-----------------|--|
| 1 | PD-45
070012 | Light Duty Post Driver with a 3" (76.2 mm) I.D. Master Chuck, uses 30 CFM (0.85 m ³ /min) @ 90 psi (6.4 kg/cm ²). Approx. Wt. 46.3 lbs (21 kg) |
| 2 | 070600 | 2 1/2" (63.5 mm) I.D. Chuck Adapter |
| 3 | 070601 | 2" (50.8 mm) I.D. Chuck Adapter |
| 4 | 070602 | 1 1/2" (38.1 mm) I.D. Chuck Adapter |
| 5 | 070603 | 1" (25.4 mm) I.D. Chuck Adapter |
| 6 | 070606 | Channel Post Chuck Adapter - 1.2 to 1.5 lbs/ft Posts |
| 7 | 071215 | Rhino PDT-45 Transport Kit includes Transport Accessories as well as:
PD-45 Light Duty Post Driver
PD-45 2 1/2" (63.5 mm) Chuck Adapter
PD-45 2" (50.8 mm) Chuck Adapter
PD-45 1" (25.4 mm) Chuck Adapter
PD-45 Channel Post Adapter
Filter-Regulator-Lubricator and 5 ft. of Hose |

*Note: Chuck adapter selection is customizable.



PD-55 and Accessories

**Model
and/or
Part No.**

Specifications

(All drivers are equipped with the exclusive Rhino Alloy, Double Valve Piston.)

- | | | |
|----|-----------------|---|
| 1 | PD-55
070013 | Medium Duty Post Driver with a 3 7/8" (98.4 mm) I.D.
Master Chuck, uses 42 CFM (1.19 m ³ /min) @ 90 psi
(6.4 kg/cm ²). Approx. Wt. 54.6 lbs (24.8 kg) |
| 2 | 070609 | 3 1/2" (88.9 mm) I.D. Chuck Adapter |
| 3 | 070610 | 3" (76.2 mm) I.D. Chuck Adapter |
| 4 | 070611 | 2 1/2" (63.5 mm) I.D. Chuck Adapter |
| 5 | 070612 | 2" (50.8 mm) I.D. Chuck Adapter |
| 6 | 070613 | 1 1/2" (38.1 mm) I.D. Chuck Adapter |
| 7 | 070614 | 1" (25.4 mm) I.D. Chuck Adapter |
| 8 | 070617 | Channel Post Chuck Adapter - 1.2 to 1.5 lbs/ft Posts |
| 9 | 070618 | Channel Post Chuck Adapter - 2 to 2.75 lbs/ft Posts |
| 10 | 070619 | Channel Post Chuck Adapter - 3 to 4 lbs/ft Posts |
| 11 | 071216 | Rhino PDT-55 Transport Kit includes Transport Accessories
as well as:
PD-55 Medium Duty Post Driver
PD-55 3" (76.2 mm) Chuck Adapter
PD-55 2-1/2" (63.5 mm) Chuck Adapter
PD-55 2" (50.8 mm) Chuck Adapter
PD-55 Channel Post Chuck Adapter
Throttle Valve Kit with 15 ft of Hose
Filter-Regulator-Lubricator and 5 ft. of Hose |

*Note: Chuck adapter selection is customizable.



PD-110 and Accessories

**Model
and/or
Part No.**

Specifications

(All drivers are equipped with the exclusive Rhino Alloy, Double Valve Piston.)

- | | | |
|---|------------------|--|
| 1 | PD-110
070014 | Medium/Heavy Duty Post Driver with a 4 1/4" (107.9 mm) I.D.
Master Chuck, uses 64 CFM (1.81 m ³ /min.) @ 100 psi (7 kg/cm ²).
Approx. Wt. 109.16 lbs (49.5 kg) |
| 2 | 070622 | 3 5/8" (92 mm) I.D. Chuck Adapter |
| 3 | 070623 | 3" (76.2 mm) I.D. Chuck Adapter |
| 4 | 070624 | 2 1/2" (63.5 mm) I.D. Chuck Adapter |
| 5 | 070625 | 2" (50.8 mm) I.D. Chuck Adapter |
| 6 | 070628 | Channel Post Chuck Adapter - 1.2 to 1.5 lbs/ft Posts |
| 7 | 070629 | Channel Post Chuck Adapter - 2 to 2.75 lbs/ft Posts |
| 8 | 070630 | Channel Post Chuck Adapter - 3 to 4 lbs/ft Posts |
| 9 | 071217 | Rhino PDT-110 Transport Kit includes Transport Accessories
as well as:
PD-110 3" (76.2 mm) Chuck Adapter
PD-110 Channel Post Chuck Adapter
Throttle Valve Kit with 15 ft of Hose
Filter-Regulator-Lubricator with Carrier and 5 ft. of Hose |

*Note: Chuck adapter selection is customizable.



PD-140 and Accessories

**Model
and/or
Part No.**

Specifications

(All drivers are equipped with the exclusive Rhino Alloy, Double Valve Piston.)

1 PD-140 070015	Heavy Duty Post Driver with a 4 1/4" (107.9 mm) I.D. Master Chuck, uses 64 CFM (1.81 m3/min) @ 100 psi (7 kg/cm2). Approx. Wt. 138.40 lbs (62.8 kg)
2 070634	3 5/8" (92 mm) I.D. Chuck Adapter
3 070635	3" (76.2 mm) I.D. Chuck Adapter
4 070636	2 1/2" (63.5 mm) I.D. Chuck Adapter
5 070640	Channel Post Chuck Adapter - 1.2 to 1.5 lbs/ft Posts
6 070641	Channel Post Chuck Adapter - 2 to 2.75 lbs/ft Posts
7 070642	Channel Post Chuck Adapter - 3 to 4 lbs/ft Posts
8 070061	4" x 6" (101 mm x 152 mm) H Column Chuck
9 070062	4" x 6" (101 mm x 152 mm) H Column Driving Cap
10 070063	4" x 4" (101 mm x 101 mm) Wood Post Chuck
11 071218	Rhino PDT-140 Transport Kit includes Transport Accessories as well as: PD-140 3" (76.2 mm) Chuck Adapter PD-140 Channel Post Chuck Adapter Throttle Valve Kit with 15 ft of Hose Filter-Regulator-Lubricator and 5 ft. of Hose

*Note: Chuck adapter selection is customizable.



MP-3 Accessories Specifications

**Model and/or
Part No.**

Height

**Base
Dimensions**

**Handle
Length Extended**

Weight

1 MP-3 071012*	41" 1.04 m	9-1/2" x 12" 241 mm x 304 mm	60" 1.52 m	41.25 lbs 18.71 kg
2 220422		Chain Assembly is 45.25" (1.15 m) long, 3/8" (9.25 mm) Grade 80 Alloy Chain with 3.5 Ton (3.17 MT) Grab Hook and 3 Ton (2.72 MT) Swivel Hook Weighing 9.44 lbs (4.28 kg).		
3 071040		Post Grabber with an Opening of 4-3/8" Wide x 2-1/2" Deep (111 mm x 63.5 mm) for the Post to be Pulled and a 1-1/2" (38.1 mm) Hook Eye Opening, Weighing 11.50 lbs (5.22 kg).		
4 071041		Panel Post Grabber for Pulling 1-5/8" (41.3 mm) Line Posts Between Temporary Fence Panels. Weighing 2 lbs (0.9 kg).		

*The model MP-3, Part No. 071012, includes the Chain Assembly and Post Grabber



PL-3 Accessories Specifications

**Model and/or
Part No.**

Height

**Width &
Length**

**Hook
Opening**

Cable

**Pulling
Stroke**

Weight

1 PL-3 071000	36 3/4" 934 mm	12" x 12-1/4" 305mm x 311 mm	1" 25.4 mm	3/8" 9.5 mm	39" 990 mm	53 lbs 24 kg
2 071040		Post Grabber with an Opening of 4-3/8" Wide x 2-1/2" Deep (111 mm x 63.5 mm) for the Post to be Pulled and a 1-1/2" (38.1 mm) Hook Eye Opening, Weighing 11.50 lbs (5.22 kg).				



PAVEMENT MARKING

LineLazer 3400

The LineLazer 3400 is the preferred choice with parking lot and seal coating contractors who are looking for professional performance and features, in a one-gun machine.

Easy Reach Controls

- Operator controls are located right of the handle bars
- You can fine tune the striping system operation without stopping

Swivel Front Wheel

- Provides easier "up the curb" parking lot striping with the ability to also stripe arcs and curves
- Tapered locking pin design for years of dependable operation

Handle Bar Design

- High-comfort design for greater stiper control and less operator fatigue
- Contoured grips comfortable fit your hands

Electronic Pressure Control

- Accurate, tight tolerance system for excellent line quality

Easy-Roll Wheel Design

- Tall, low friction wheels push easier for reduced operator fatigue

Chromex™ Pump Rod

- Long life rod treatment built for the most demanding applications
- 4 times harder than ordinary chrome



DESCRIPTION	PART NUMBER	MAX TIP SIZE	MAX GPM (LPM)	MAX PSI (BAR)
LineLazer 3400	248861	0.027 (1 Gun)	0.75 (2.8)	3300 (227)



Exclusive, Single-stage gear drive system



Simple to use parking brake system



Durable, swivel front wheel

LineLazer IV 3900 & 5900 Auto-Layout System

Both the LineLazer IV 3900 and 5900 featuring the exclusive new Auto-Layout System allow you to do layout jobs without the hassle and "pain" - only from Graco.

New Digital Display

- The display now shows psi, mph, mils-instant average, lineal foot, gallons and mils-total - all on one screen
- Simple push button design makes it easy to use
- Back-lit feature can be seen in all conditions

Exclusive Durable Can Holder Design

- Folds up for on-board storage
- Pivots forward or backwards if hit
- Built to last in all conditions

Rear Gun Mount System

- Ability to place the guns near the rear axle for applying straighter long lines and smoother curved lines
- Combine with Auto-Layout System for one pass dot marking and line striping

Advanced Vibration Reduction System

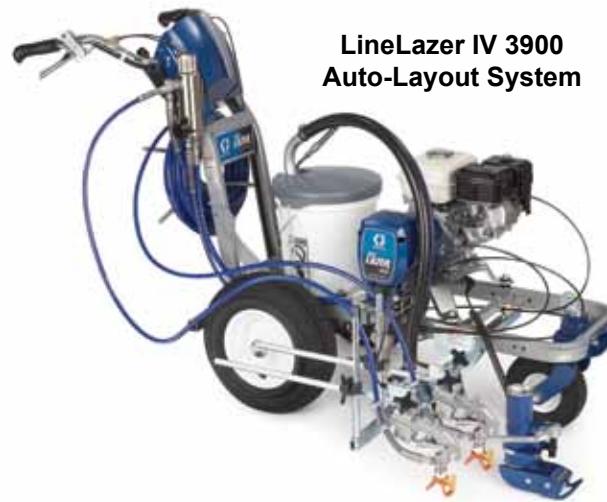
- Removes engine vibration, taking line quality to the next level
- Up to 60% less vibration at the spray tip than the competition

Chromex Pump Rod

- Long life rod treatment built for the most demanding applications
- 4 times harder than ordinary chrome

Flow-Through Easy Out Filter

- Filter element removes with the cap for convenient, mess-free access
- Flow-through design flushed faster for quicker color changes



**LineLazer IV 3900
Auto-Layout System**



**LineLazer IV 5900
Auto-Layout System**



New digital display show it all



No-tool adjustment and storage



No-tool electrical connector system

DESCRIPTION	PART NUMBER	MAX TIP SIZE	MAX GPM (LPM)	MAX PSI (BAR)
LineLazer IV 3900 Auto-Layout System	253920 (1 Gun)	0.036 (1 Gun)	1.25 (4.7)	3300 (227)
LineLazer IV 3900 Auto-Layout System	253953 (2 Gun)	0.025 (2 Gun)	1.25 (4.7)	3300 (227)
LineLazer IV 5900 Auto-Layout System	253921 (1 Gun)	0.043 (1 Gun)	1.60 (6.0)	3300 (227)
LineLazer IV 5900 Auto-Layout System	253954 (2Gun)	0.029 (2 Gun)	1.60 (6.0)	3300 (227)



LineLazer IV 200 HS

Advanced Vibration Reduction System

- Removes engine vibration, taking line quality to the next level
- Up to 60% less vibration at the spray tip than the competition

High-Capacity Cooling System

- 20% larger, hydraulic fluid reservoir keeps the system running cool
- Innovative cooling fins wrap down and under the reservoir for improved air flow

Cooling Fan Design

- Exclusive design delivers nearly 70% more air flow to keep the hydraulic pump running cool

SmartControl Pressure Control

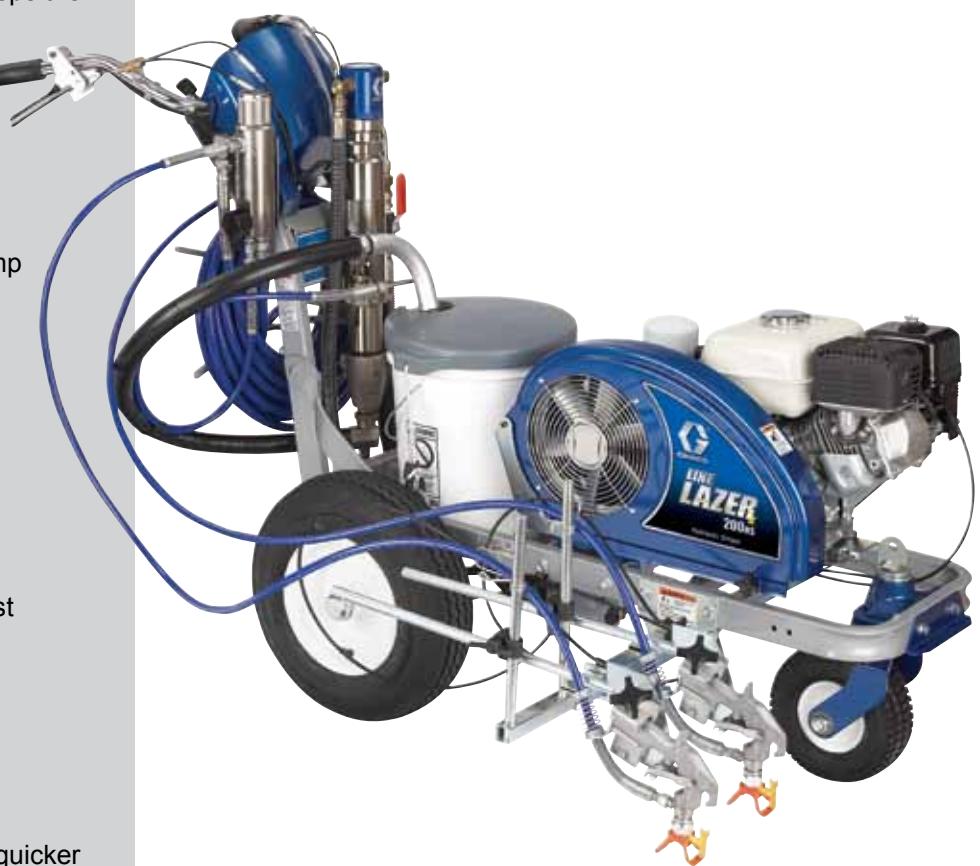
- Provides consistent spraying pressure, reducing pulsation and line variation
- Digital Tracking System keep you informed-on the job

Chromex Pump Rod

- Long life rod treatment built for the most demanding applications
- 4 times harder than ordinary chromex

Flow-Through Easy Out Filter

- Filter screen removes with the cap for convenient, mess-free access
- Flow through design flushes faster for quicker color changes



DESCRIPTION	PART NUMBER	MAX TIP SIZE	MAX GPM (LPM)	MAX PSI (BAR)
LineLazer IV 200HS	248870 (1 Gun)	0.047 (1 Gun)	2.15 (8.14)	3300 (227)
LineLazer IV 200HS	248871 (2 Gun)	0.034 (2 Gun)	2.15 (8.14)	3300 (227)



High-efficiency hydraulic motor



Exclusive cooling fan design



High capacity reservoir runs cool

PAVEMENT MARKING

FieldLazer

Leave the Heavy Work to the Players.

With its low weight and specially designed cart, FieldLazer is easy to use on the field. Each component on FieldLazer is designed to deliver superior performance in a lightweight and compact package.

At just under 80 pounds, FieldLazer weighs in as the easiest-to-push airless field striper. The exclusive tall-wheel cart rolls easily over ruts and cleat marks that can cause smaller-wheeled machines to dip and dive. The result is less operator fatigue and straighter lines!

Easy Out™ Filter
strains paint to make tip clogging a thing of the past.

High-efficiency Honda® 4-stroke engine
Lightweight, compact design delivers superb fuel economy and quiet operation.

Pre-set Automatic Pressure Control
Factory set for straight forward operation.

High-Performance Piston Pump
Job-proven long-life design.

Fully Adjustable Spray Shields
No-tools adjustment makes line width changes fast and easy - stripe 2 to 12-inch lines in a single pass.

Original container siphoning
eliminates the hassle of cleaning tanks and pots.

Removable Hand Gun with 25-ft Hose
No-tools removal for easy spraying of numbers, logos, etc.

Max Working Pressure	900 psi (62 bar)	
Max Delivery Pressure	0.5 gpm (1.9 lpm)	
Spray Tip Selection	Line Width	Spray Tip
	2 Inches	LL5217
	4-8 Inches	LL5421
	8-12 Inches	LL5627
Engine	31 cc Honda 4-Stroke	
Weight	80 lbs (36 kg)	

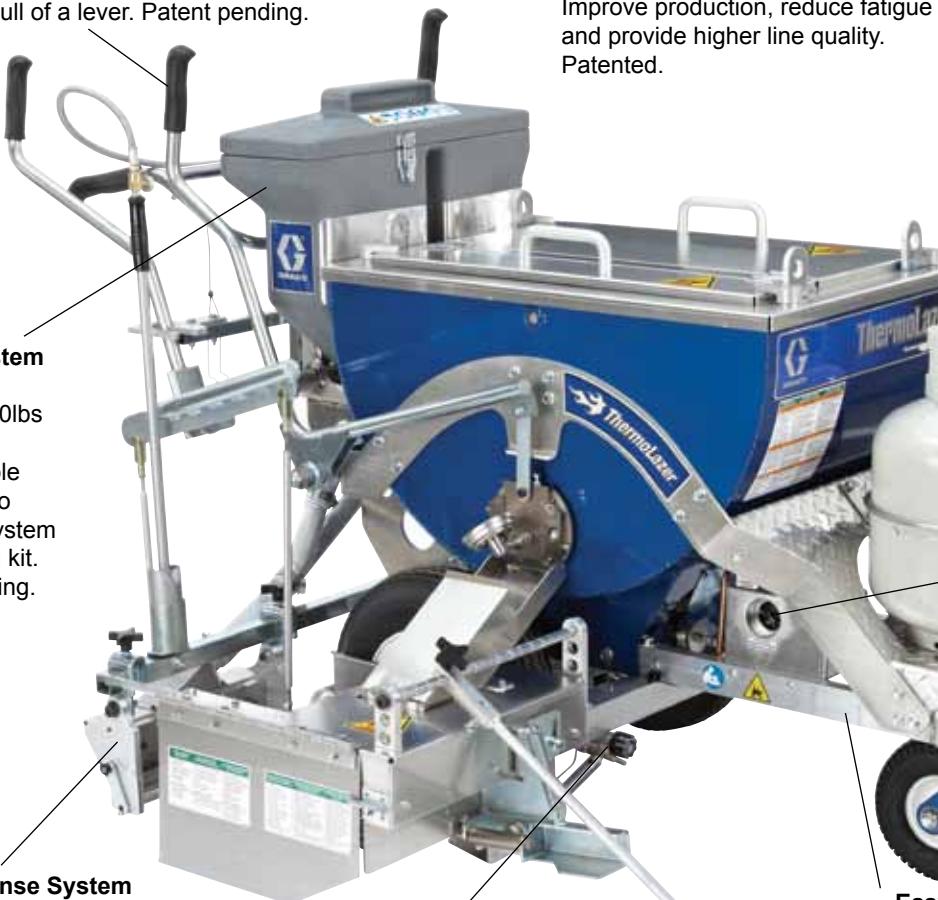


ThermoLazer

The industry-leading experts that brought you the ground-breaking LineLazer™ family of stripers in 1990 have done it again by changing the game in thermoplastic striping technology. Introducing the new **ThermoLazer**. Graco, the airless line-striping leader has created the most user-friendly, innovative thermoplastic stiper to hit the streets. Check out some of the exclusive, market changing features below and see for yourself where the next generation of thermoplastic stripers is heading - **Only on a Graco!**

ControlFlow™ System

Precise material flow control with a pull of a lever. Patent pending.



LineDriver™ Compatible

Improve production, reduce fatigue and provide higher line quality. Patented.



SplitBead™ Hopper System

Split hopper holds over 90lbs (40 kg) of beads. Simple conversion to dual bead system with optional kit. Patent pending.

Bead Dispense System

No-tool system allows fast and flexible line width changes. Patent pending.

Infrared Die Heater System

Reliable, safe system to keep die ready to use. No open flame.

HighCap™ Hopper System

20-50% larger for fewer refills - 300 lbs (136 kg) for maximum productivity.

Electronic Ignition System

Simple and safe to use. Push of a button is all it takes.

Fat Track™ Front Swivel Wheel System

Proven front caster wheel system makes turning fast and easy. Patented.

EasyGlide™ System

First thermoplastic line stiper with dual rear wheels with single front caster for LineLazer-like handling. Patent pending.

SPECIFICATIONS:

Part Numbers	258699 - North America (includes 4 in/10 cm die)
	258700 - International (no die included)
Material Capacity.....	300 lbs (136 kg)
Available Dies.....	4 in/10cm, 5 in/12cm, 6 in/15cm, 7 in/18cm 8 in/20cm, 9 in/22.5cm, 10 in/26cm, 12 in/30cm, 4 x 4 x 4 in/10 x 10 x 10cm, 4 x 3 x 4 in/10 x 8 x 10cm
Fuel Source	LP Gas (LP tank NOT included)
Main Burners	Twin Ransom/20,000 BTU
Die Heater	Infrared Technology
Bead Hopper Capacity	90 lbs (40 kg)



EasEZ-Steer™ Handle Bar System
Makes turning and handling as easy as a LineLazer.



PaddleMax™ Dual Paddle Mixing System
Requires 50% less effort to mix material. Patent pending.



SmartDie™ Installation and Removal System
Allows quick and effortless line width changes. Patent pending.

PAVEMENT MARKING

GrindLazer 270

GrindLazer 270 (Patent Pending)

DESCRIPTION	PART #
GrindLazer 270 (Bare)	571002
GrindLazer 270, 8 in Cut, 8 point Flail complete, 114 cutters, 186 spacers	571018
GrindLazer 270, 8 in cut 6 point Miller complete 42 cutters, 132 spacers	571021

SPECIFICATIONS

Maximum Cut	8 (20)
Width in (cm):	Forward
Cut Direction:	600 sq ft/hr
Removal Rate (walk)	1300 sq ft/hr
Honda Engine CC (HP)	270 (9.0)
Weight lbs (kg)	300 (136)
Prostart System	Heavy-Duty
Air Cleaner	Cyclone

OPTIONAL LineDriver

LineDriver and LineDriver HD adaptable, doubles your production while it eliminates user fatigue.



- Now get higher productivity, straighter line removal with less fatigue
- Move between removal jobs without having to push
- Load and unload GrindLasers with ease

The **GrindLazer 270** is the perfect scarifier for removing parking lot lines. Its EasyGlide Wheel Mount System makes it as easy to use as a LineLazer and its rugged, innovative design means you can count on it to perform for a lifetime of use.



TriBelt™ Drive System

- 3-cog belt design optimizes power transfer and maximum load handling
- Eliminates costly downtime



EasyGlide Wheel Mount System

- Front mounted caster along with dual rear pneumatic air-filled tires makes handling safe and easy to maneuver as a LineLazer
- Pneumatic air-filled tires helps eliminate vibration



Fat Track Front Swivel Wheel

- Proven front caster wheel system makes turning fast and easy
- Maneuver curves better
- No need to "muscle" it while moving

Heavy-Duty ProStart System

- Centrifugal clutch allows easy starting and shut off of cutters providing one of the safest units on the market today
- Easy to start in cold weather
- Eliminated broken recoils
- Provides longer belt life



Sherwin Industries, Inc.
MILWAUKEE, WISCONSIN
ESTABLISHED 1938

Phone: 800-525-8876 • Fax: 414-281-6404

GrindLazer 390

GrindLazer 390 (Patent Pending)

DESCRIPTION **PART #**

GrindLazer 390 (Bare) 571003

GrindLazer 390, 10 in Cut,
8 point Flail complete,

138 cutters, 150 spacers 571018

GrindLazer 390, 10 in cut
6 point Miller complete

54 cutters, 66 spacers 571022

SPECIFICATIONS

Maximum Cut

Width in (cm): 10 (25)

Cut Direction: Forward

Removal Rate (walk) 800 sq ft/hr

Removal Rate (ride) 1700 sq ft/hr

Honda Engine CC (HP) 390 (13.0)

Weight lbs (kg) 310 (140)

Prostart System Heavy-Duty

Air Cleaner Cyclone

OPTIONAL LineDriver

LineDriver and LineDriver HD adaptable,
doubles your production while it eliminates
user fatigue.



- Now get higher productivity, straighter line removal with less fatigue
- Move between removal jobs without having to push
- Load and unload GrindLasers with ease

The **GrindLazer 390** is the contractor choice for all-around scarifying jobs including parking lot lines, intersection markings, construction zones and sidewalk smoothing. With the optional LineDriver system its productivity is unmatched and means you can get more work done everyday without the fatigue from walking.

Vibration Reduction Technology

- Pneumatic air-filled tires, comfort grips, LineLazer-like cart design combine to eliminate vibration reducing user fatigue
- Comfort-grip handle bars for precise steering
- Up to 4 times less vibration than the competition

DialDown™ Depth Control System

- “Forward Cut” precise cutting depth with multiple position depth control
- Simple and easy to “dial-down” to optimum depth



Heavy-Duty ProStart System

- Centrifugal clutch allows easy starting and shut off of cutters providing one of the safest units on the market today
- Easy to start in cold weather
- Eliminates broken recoils
- Provides longer belt life

InstaCut Technology

- Only unit to offer “hand-on” engagement of the cutting deck system for up or down position
- Provides ultimate flexibility for removal and inlay
- No-tool system
- Allows deck to “float” when on uneven surfaces



PAVEMENT MARKING

GrindLazer 480

GrindLazer 480 (Patent Pending)

DESCRIPTION **PART #**

GrindLazer 480 (Bare) 571004

GrindLazer 480, 10 in Cut,
8 point Flail complete,
138 cutters, 150 spacers 571008

GrindLazer 480, 10 in cut
6 point Miller complete
54 cutters, 66 spacers 571023

GrindLazer 480, 10 in cut,
5 point Diamond complete,
38 blades, 41 spacers 571010

GrindLazer 480, 5 in cut,
5 point Diamond complete,
19 blades, 42 spacers 571010

SPECIFICATIONS

Maximum Cut	10 (25)
Width in (cm):	Reverse
Cut Direction:	"UP-Cut"
Removal Rate (ride)	2100 sq ft/hr
Vanguard engine CC (HP)	480 (16.0)
Weight lbs (kg)	330 (150)
Prostart	Extreme-Duty
Air Filter	2-Stage Heavy-Duty

LineDriver Required



GrindLazer 480 with Reverse/"Up-Cut" cutting direction requires the use of a LineDriver Propel System. The GrindLazer 480 unit cannot operate without a LineDriver due to the ProStart safety switch interlock system.

The **GrindLazer 480** is the high production choice when it comes to the most demanding scarifier jobs. With its "Up-Cut" cutting direction you not only are able to remove all types of lines found on parking lots or roadways but now have the power to do inlay/grooving jobs. Combined with the LineDriver you'll finish jobs faster and more accurately than ever before!



Extreme Duty ProStart System

- Centrifugal clutch allows easy starting and shut off of cutters providing one of the safest units on the market today
- Easy to start in cold weather
- Eliminates broken recoils
- Provides longer belt life



InstaCut Technology

- Only unit to offer "hands-on" engagement of the cutting deck system for up or down position
- Provides ultimate flexibility for removal and inlay
- Allows deck to "float" when on uneven surfaces
- Provides longer belt life



EasEZ-Steer Handle Bar System

- Makes turning and handling simple as a LineLazer
- Fully adjustable handles for all size users
- Reduces vibration



Sherwin Industries, Inc.
MILWAUKEE, WISCONSIN
ESTABLISHED 1938

Phone: 800-525-8876 • Fax: 414-281-6404

Cutter Assemblies for GrindLazers

8 Point Flail: Tungsten Carbide Cutter		Applications: All purpose removal of paint, epoxy and thermoplastic markings, bump-smoothing and anti-slip grooving.							
Part Number	Description	Cut Width	Cutters	Spacers	End Rods	Plates	GrindLazer		
							270	390	480
24D182	Completely assembled drum for General Purpose*	*6 in / 15.25 cm	84	234	6	2	✓	✓	✓
24D180	Completely assembled drum for General Purpose*	*8 in / 20.5 cm	114	186	6	2	✓	✓	✓
24B957	Completely assembled drum for General Purpose*	*10 in / 25.5 cm	138	150	6	2	—	✓	✓
24D610	Drum Without Cutters	—	—	—	6	2	✓	✓	✓
24D979	Replacement Drum Rods	—	—	—	6	—	✓	✓	✓
24D980	Replacement Drum End Plates	—	—	—	—	2	✓	✓	✓
24D612	Replacement 8 pt Flail Tungsten Carbide Cutters (20 per pack)	—	20	—	—	—	✓	✓	✓
24D981	Replacement Steel Spacers (20 per pack)	—	—	20	—	—	✓	✓	✓

*For additional widths and/or cutter setups please see repair manual.



6 Point Miller: Tungsten Carbide Cutter		Applications: Specifically used for thermoplastic, tape and thick material build up.							
Part Number	Description	Cut Width	Cutters	Spacers	End Rods	Plates	GrindLazer		
							270	390	480
24E214	Completely assembled drum with cutters	*6 in / 15.25 cm	30	204	6	2	✓	✓	✓
24D585	Completely assembled drum with cutters	*8 in / 20.5 cm	42	132	6	2	✓	✓	✓
24D183	Completely assembled drum with cutters	*10 in / 25.5 cm	54	66	6	2	—	✓	✓
24D613	Replacement 6 pt Miller Tungsten Carbide Cutters (6 per pack)	—	6	—	—	—	✓	✓	✓



*For additional widths and/or cutter setups please see repair manual.

DynaCut Diamond Blade Cutter		Applications: Specifically used for concrete and asphalt pavement to groove and/or inlay							
Part Number	Description	Cut Width	Cutters	1/8" Blade Spacers	1/4" End Rods	Square Key	GrindLazer		
							270	390	480
24B965	Completely assembled drum for pavement grooving/inlay	*5 in / 12.75 cm	19	21	21	2	—	—	✓
24D583	Completely assembled drum for pavement grooving/inlay	*10 in / 25.5 cm	38	39	2	2	—	—	✓
24E289	Single, diamond blade (5pt)	*1/4 in / 6.35 cm	1	—	—	—	—	—	✓



*For additional widths and/or cutter setups please see repair manual.

LineDriver and LineDriver HD Ride-On System

Exclusive ProStart Engine Starting System (HD model)

- Up to 50% less pulling effort to start the engine - no more broken recoils
- Out performs manual pull and electric start systems when the weather starts turning cooler
- Patent pending design

Exclusive Advanced Vibration Reduction

- Proven system with LineLazer IV, system now used on the LineDrivers to eliminate engine vibration
- Eliminates user fatigue and helps keep line quality the best in the industry

Exclusive FlexBeam Break-A-Way Light System

- Fully adjustable for all types of low light applications
- Break-A-Way design helps protect costly repairs and keeps you on the job

Exclusive LineDriver & LineDriver HD Features

- Forward speeds to 10 mph (16km/h), reverse 6 mph (10km/h)
- New off set Parking Brake System
- New "Cool Grey" operator seat - 20% cooler than black seats
- New "No Maintenance" Hydrostatic Pump System
- New "ALL-Terrain" smooth ride tires (HD Model)



LineDriver



LineDriver HD

DESCRIPTION	PART #	ENGINE	FUEL TANK CAPACITY	OPERATING SPEED
LineDriver, Ride-On System	262004	160 cc Honda GX	.95 gal (3.6 L)	Up to 10 mph (16 km/h)
LineDriver HD, Ride-On System	262005	200 cc Honda GX	.95 gal (3.6 L)	Up to 10 mph (16 km/h)



Dual foot pedal system for forward and reverse (patented)



FlexBeam Break-A-Way light system keeps you striping in low light conditions



Complete striping jobs faster and more accurately with LineDriver & LineDriver HD



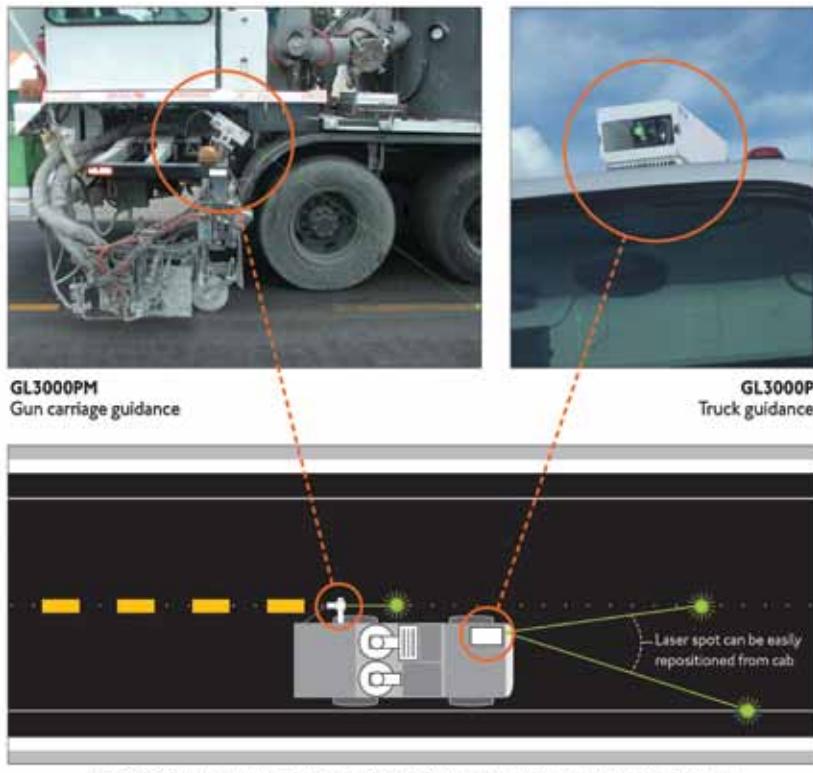
LaserLine MFG., Inc.

THE SYSTEM

The GL3000-Series Laser Striping Systems use an ultra high visibility green laser to establish visual line control for your paint striping machine or gun carriage package.

Depending on the model, the Operator adjusts the laser spot to the desired reference point on the road surface using a remote control panel located in the cab of the vehicle or manually at the laser. The laser spot is impacted directly on the road surface and show the Operator exactly where the vehicle is relative to "on line." The laser spot is on the road ahead of the Operator so that the reference is in the driving field of view instead of a T.V. screen or boom pointer.

It is fast to set up and easy to use.



SPECIFICATIONS

Laser: 532nm Class 111A Green Laser

Power: 11-15 Volt DC Positive or Negative Ground

Power Draw: 4.00 Amps (Maximum Operating), 0.03 Amps (Sleep Mode)

Laser Housing GL3000P (Remote):

Height: 6 1/8 Inches

Length: 12 Inches

Width-Housing: 6 1/2 Inches

Base: 9 1/2 Inches

Laser Housing GL3000PM (Manual):

Height: 4 1/2 Inches

Length: 9 Inches

Width Housing: 3 3/4 Inches

Base: 4 1/4 Inches

Cable length from Laser Housing to Control Box: 20 Feet

12 Volt Power Cable Length from Control Box: 5 Feet

Shipping Weight: 25 lbs.

THE PRODUCT

- Main Housing - Weatherproof, containing optic plate mounting platform, micro processor electronics, laser, laser mounting assembly, laser driver board, automatic cooling and heating system, and in the remote version, X-Y positioning control mechanism, drive motors, and optics. The entire unit is dry nitrogen purged to protect all components.
- 20 Feet of Interconnect Cable with a waterproof, mil spec, in-line connector mounted between the laser main housing and the control panel mounted in the cab.
- Control Panel allows the Operator to turn the unit on and off on the manual version as well as aim the laser spot toward or away from the vehicle as well as left and right on the remote control version.
- 5 Feet of 12 Volt DC Cable running from the control box for connection to vehicle's 12 V power.

Laser Guide System for Paint Stripers and Snow Plows with wing attachments

GL3000PM Laser Guidance System



SGL3000PM Laser Guidance System-Manual Control Complete

* Comes with 19' cable, and control box.

GL3000P Laser Guidance System



SGL3000P Remote Laser Guidance System-Remote System Complete

* Comes with 19' cable, and remote control box.

OPTIONS

SNPM-M Magnetic Foot (each)

4 Required for GL 3000P

2 Required for GL 3000PM

SNPM-CA Cigarette Adaptor Power Cord

Note: All products listed are PLUS freight charges.

The GL3000-Series Laser Striping System use an ultra high visibility GREEN laser to establish visual line control for your paint striping machine, and or gun carriage. This system also works great for snow plow rigs with wing attachments.

ADVANTAGES

- For truck control, you can set your references 20-30 feet out in front of the vehicle impacting on the road. For fun package control, the laser is used to give the operator "heads up" time to move the gun package in and out for easy and precise alignment.
- Keeps your eyes in the natural driving field of view at the reference point.
- SAFER-Paint up to intersections without the worry of injury or damage to other vehicles.

IT'S MORE VERSATILE, EASIER, FASTER, AND SAFER



Traffic Paint



Striping Paint

Aervoe

Solvent-Based (20-oz), 12 cans/case



Krylon

Solvent-Based (20-oz), 12 cans/case



Product

<u>Product</u>	<u>Part #</u>
Traffic White	710
Traffic Yellow	720
Traffic Red	730
Traffic Orange	740
Traffic Blue	750
Traffic Green	760
Traffic Black	770

Product

Product

Highway White	K08300
Highway Yellow	K08301
Handicap Blue	K09302
Firelane Red	K08303
Cover-Up Black	K08304

Water-based formulations available upon request

PAVEMENT MARKING

Stencils



American Stencil 1/8 inch Poly-Vinyl-Paint Stencils

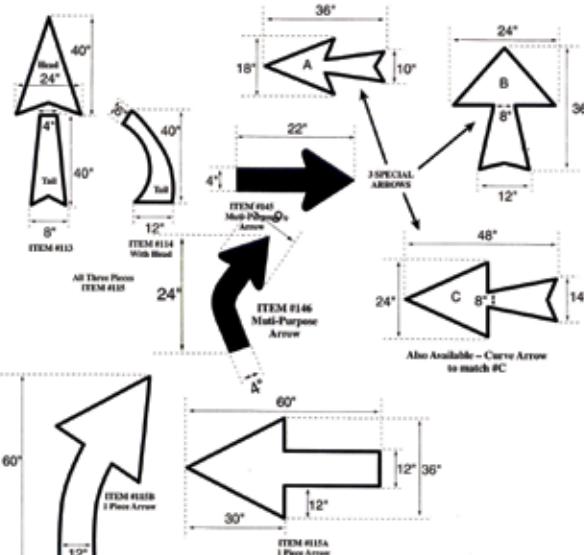
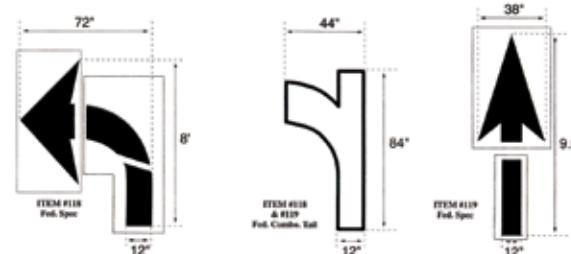
<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
S96	3" Letters	S110B	96" Numbers with 6" stroke
S97	3" Numbers	S111A	Handicap Symbol (33x42x2-3/4" stroke)
S98	4" Letters	S111	Handicap Symbol (24x36x2" stroke)
S99	4" Numbers	S112	Handicap Symbol (12x18x1-1/4" stroke)
S100	6" Letters	S113	6' Straight Arrow (2 piece)
S101	6" Numbers	S114	6' Curved Arrow (2 piece)
S101A	8" Letters	S115	6' Arrow with Curved and Straight Tails (3 piece)
S101B	8" Numbers	S116	5' R for rail road crossing (2'x5'x6" stroke)
S102	10" Numbers	S116A	6' Federal Spec "R" for Rail Road Crossing (1'x6'x3" stroke)
S102A	10" Letters	S117	6' "R" for rail road crossing (2'x6'x6" stroke)
S103	12" Numbers	S117A	"X" for rail road crossing
S104	12" Letters	S118	Federal Curved Arrow
S105	24" Numbers	S119	Federal Straight Arrow
S106	24" Letters	S120	Stop Bar (8'x16")
S107	36" Letters	S121	Stop Bar (8'x12")
S107A	36" Numbers	S122	8'x6' Stop Bar
S108	48" Numbers		
S108A	48" Letters		
S109	72" Letters		
S109A	72" Numbers		
S110	96" Letters with 6" stroke		
S110A	96" Letters with 4" stroke		



<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
S123	Stop Bar (8'x6")	S152A	36" Football Field Kit - roman style (0,1,2,3,4,5,G)
S124	Stop Bar (8'x4")	S153	72" Football Field Kit - roman style (0,1,2,3,4,5,G)
S125	Fire Hydrant Symbol w/Arrow (18"x33")	S154	12" No
S125A	Maltese Cross Symbol (37"x37")	S155	12" Parking
S126	Pedestrian Crossing Symbol (36"x60")	S156	12" Fire
S127	Bicycle Lane Symbol (40"x60")	S157	12" Lane
S128	10" Manager	S157A	12" Zone
S129	10" Loading	S157B	12" Compact
S130	10" Stand	S157C	12" Loading
S131	10" Asst.	S158	12" Stop
S131A	10" Chief	S159	12" Reserved
S132	10" Stop	S160	12" Visitor
S133	10" Fire	S161	12" Enter
S134	10" Lane	S162	12" Exit
S135	10" Zone	S162A	12" Only
S136	10" Taxi	S162B	4" No skateboarding
S137	10" Mgr.	S162C	4" No Diving
S138	10" Doctor	S162D	4" No Running
S139	10" President	S163	4" No Rollerblading
S139A	10" Reserved (condensed)	S164	4" No Parking
S140	10" Reserved	S165	4" Reserved
S140A	10" Vice	S166	4" Visitor
S141	10" Only	S167	4" Fire
S141A	10" Visitor	S167A	4" Lane
S141B	10" Compact	S167B	4" Loading
S142	10" Cars	S168	4" Wait for Walk Signal
S142B	6" No Parking	S168A	4" Zone
S143	10" One Way (1 piece)	S168B	4" Min.
S144	10" No Parking	S168C	4" Manager
S145	6" Handicap	S169	4" Handicap
S146	Multi-Purpose Arrow (straight 22")	S170	8" Senior
S147	Multi-Purpose Arrow (curved 24")	S170A	8" Manager
S148	6" No Skateboarding	S171	8" Customer
S148A	6" No Diving	S171A	8" Loading
S149	6" No Running	S172	8" Only
S150	6" Visitor	S173	8" Stand
S151	6" Exit	S174	8" Asst.
S151A	6" No Smoking	S175	8" Chief
S152	6" Reserved	S176	8" Fire
		S177	8" Lane
		S178	8" Zone
		S179	8" Taxi

PAVEMENT MARKING

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
S180	8" MGR	S218	48" No (1 piece)
S181	8" Doctor	S219	48" Slow (1 piece)
S182	8" President	S220	48" Yield (1 piece)
S183	8" Reserved	S221	48" Stop (1 piece)
S184	8" Vice	S222	48" Exit (1 piece)
S185	8" Visitor	S223	48" Drive (1 piece)
S186	8" Compact	S224	48" Do (1 piece)
S187	8" Cars	S225	48" Thru (1 piece)
S188	8" No Parking	S226	48" Not (1 piece)
S188A	8" Handicap	S227A	48" Only (1 piece)
S188B	9" Slow Speed (1 piece)	S227B	48" Enter (1 piece)
S189	9" No Parking (1 piece)	S228	ADA Symbol w/No Parking
S190	18" No	S229	ADA Symbol w/Van Accessible
S191	18" Parking	S230	ADA Symbol w/Handicap Parking
S192	18" Fire	S231	Crosswalk Bars
S193	18" Zone	S238	Line Stencil
S194	18" Lane	Includes: 1 set Giant Economy Starter Kit	
S195	18" Only	1 each 10" One Way, 1 each 19" In/Out, 1 each Arrowheads, 1 each Curve & Straight Tails	
S196	18" One		
S197	18" Way		
S198	18" Drive		
S198A	18" Thru		
S198B	18" Exit		
S198C	18" Enter		
S199	18" Stop		
S200	24" No		
S201	24" Parking		
S202	24" Fire		
S203	24" Lane		
S204	24" Zone		
S205	24" Enter		
S206	24" Exit		
S207	24" Drive		
S208	24" Thru		
S209	24" Loading		
S210	24" One		
S210A	24" Way		
S210B	24" Stop		
S211	24" Only		
S212	6" Loading		
S213	6" Zone		
S214	6" Lane		
S217	6" Fire		



PreMark® Pavement Markings



- Heavy-duty, durable intersection grade pavement marking material
- Complies with MUTCD; used primarily for regulatory markings on public streets and highways and private properties
- Supplied at 125 mil for cost-effective service life
- **Lasts 6 to 8 times longer than paint**
- No minimum ambient or road temperature requirements; pavement marking season can be extended into colder months
- Preheating pavement to specific temperature is not required
- Retroreflective; glass beads mixed throughout material so that as marking wears new beads exposed
- Precut; ready to use out of the carton
- Clean, crisp appearance
- Quick and simple mobilization; no heavy equipment to set-up and clean
- Made at ISO 9001:2008 certified facility
- No lead chromate or VOCs
- Simple 3-step application process with Flint 2000EX Heat Torch

The top surface of the material has regularly spaced heating indicators which provide a visual cue during application that the material has reached a molten state indicating satisfactory adhesion and proper bead embedment has been achieved. The heating indicators also provide a post-application visual cue that the installation procedures have been followed.



ViziGrip®

Specially made for crosswalks, bike paths, handicap markings and other pedestrian uses, ViziGrip® is a unique feature designed to ensure that skid resistance and retroreflectivity are optimized especially where loss of traction in wet conditions is of great concern.

ViziGrip® can be added to any of the PreMark® lines, legends, arrows, and other designs in 90-mil and 125-mil thicknesses.

Surface-Applied Detectable Warning Material



- Applies on concrete (including green) and asphalt; new and existing surfaces
- Supplied in convenient kit to complete 32 sq. ft. of application
- Complies with current Public Rights-of-Way Accessibility Guidelines (PROWAG) and ADA/ABA-Accessibility Guidelines (formerly ADAAG)
- New convenient 2'x4' sheet; also in 2'x3', 1'x2', 1'x3', plus a wedge piece
- Conforms to contours
- Easy to cut with heavy-duty scissors for special angles and curves
- No fasteners, anchors or power tools required
- Quick and simple mobilization
- Slip resistant; abrasive component throughout material
- Long-lasting color pigments are organic and contain no heavy metals
- The truncated domes are integral parts of the material - not add-ons
- Made at ISO 9001:2008 certified facility
- Simple 4-step application process with Flint 2000EX® Heat Torch

Custom Logos and Horizontal Surface Signage



- Durable intersection-grade preformed thermoplastic pavement marking material
- Enhance transportation/pedestrian guidance; increase brand awareness; reduce sign clutter; promote community pride and school spirit
- Precut; ready to use out of the carton
- Interconnected shapes and colors; easy to handle
- 17 standard colors; premium/custom colors with minimum purchase requirement
- **Lasts 6 to 8 times longer than paint**
- ViziGrip® provides enhanced visibility and skid/slip resistance
- Material flush to surface; no tripping hazard from imprinted grooves; wheelchair and shopping cart-friendly
- Glean, crisp appearance
- No minimum ambient or road temperature requirements; pavement marking season can be extended into colder months
- Heating indicators in surface of material provide visual cue for proper application
- Made at ISO 9001:2008 certified facility
- No lead chromate or VOCs
- Application on asphalt and concrete
- Simple application process with propane heat torch or large heater



Decorative Crosswalks and Traffic Calming Surfaces



- Durable intersection-grade preformed thermoplastic pavement marking material
- Improve traffic safety; enhance visibility; promote and/or revitalize community pride
- For streetscapes, crosswalks, roundabouts, medians, islands, hardscapes, and more
- 2' x 3' interconnected sheets in 90-mil and 125-mil thicknesses; easy to handle
- 9 standard colors; 7 premium colors; 6 standard patterns
- **Lasts 6 to 8 times longer than paint**
- Anti-skid materials intermixed throughout material for maximized skid resistance
- Material flush to surface; no tripping hazard from imprinted grooves; wheelchair and shopping cart-friendly
- Clean, crisp appearance
- No minimum ambient or road temperature requirements; pavement marking season can be extended into colder months
- Heating indicators in surface of material provide visual cue for proper application
- Made at ISO 9001:2008 certified facility
- No lead chromate or VOCs
- Application on asphalt and concrete
- Simple application process with propane heat torch or large heater
- Eliminates maintenance and safety concern of loose pavers
- Single-colored sheets for application over pattern-imprinted or stamped asphalt



Enhanced
Skid
Resistance



Sherwin Industries, Inc.
MILWAUKEE, WISCONSIN
ESTABLISHED 1938

Phone: 800-525-8876 • Fax: 414-281-6404

Inverted Marking Paint

Krylon

Krylon® Industrial, the leader in innovative solutions offers you Quik-Mark™ Solvent-Based and Water-Based Inverted Marking Paints and Chalks. With our advanced UV resistant formulas you can mark your lines during harsh or adverse conditions. Even in extreme sun Quik-Mark™ advanced UV resistant formulas will not fade to a different color!



Aervoe

A complete line of paints, speciality coatings, applicators, and measuring devices that are made specifically to meet a variety of marking requirements.

Aervoe Marking Wands

Marking Wands

- Constructed of durable, rugged plastic and lightweight steel
- Comfortable pistol grip for easy handling and marking

Description

- K7095 Spotter Hand-Held Wand (12" Length)
K7096 Wheeler Hand-Held Wand (34" Length)
K7098 Can Holster



245 Marking Stick



244 Spot Marker

Krylon Marking Wand



284 Linear Measuring Display Box

PAVEMENT MARKING

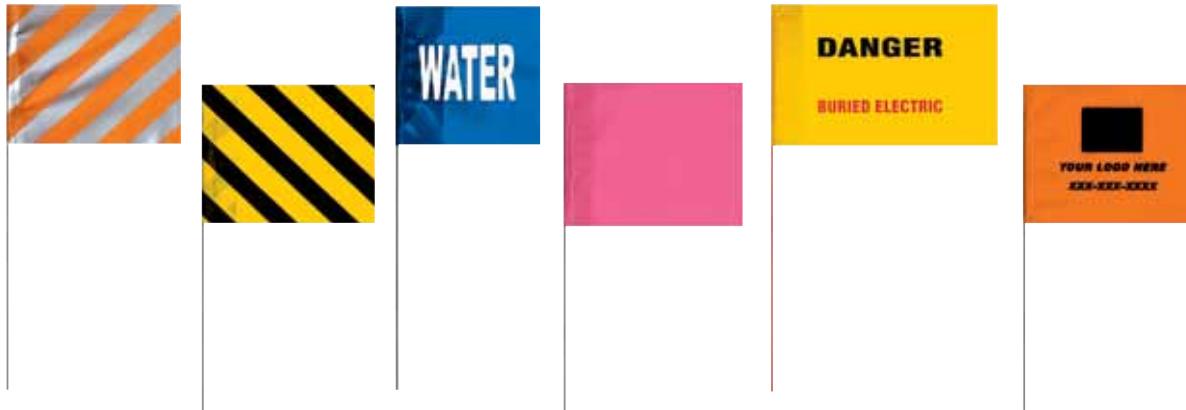
Survey Marker Flags

Available in Red, White, Yellow, Orange, Blue & Green

- S1209** Survey Marker Flag with Wire Staff: 24" tall with a 4" x 5" flag
1,000 markers to a box. Many other sizes, lengths and colors available.
- S1209A** Survey Marker Flag with Plastic Staff: 24" tall with a 4" x 5" flag
1,000 to a box.



Caution Barricade Tape



- S6050** Safety Flare (spike type) lasts 30 minutes, measures 11" 36/Case

Roll Flagging

- SPXC** Ink Color Roll Flagging 12 rolls per box

Patterns Available: stripes, polka dots, and checkerboards. Size 1/3/16" wide

Ink Colors Available:

white / black	black / blue	black / yellow	yellow
white / blue	black / blue glo	yellow red	black
white / green	black / green	green	orange
white / orange	black / orange	red	white
white / pink glo	black / orange glo	blue	
white / red	black / pink glo		
white / yellow	black / red		



Checkerboard Roll Flagging (left to right): White with Yellow, White with Red, White with Black, Pink Glo with White, and Pink Glo with Black

Polka Dot Roll Flagging (left to right): White with Blue, White with Red, Yellow with Black, Pink Glo with Black, and Orange Glo

Stripe Roll Flagging (left to right): White with Green, White with Red, Red with Black, Yellow with Black, and Green with Black

Manhole Protection Rings

PreMark® Manhole Protection Rings

- Heavy-duty, durable intersection-grade preformed thermoplastic pavement marking material
- Simple application method: prepare, position and heat
- Supplied at 125-mil thickness for cost-effective service life
- Precut with clean, neat appearance
- Quick and simple mobilization; no heavy equipment to set-up, transport and clean
- No minimum ambient or road temperature requirements; pavement marking season can be extended into colder months
- Preheating the pavement to a specific temperature is not required
- Indents in surface provide a visual cue for proper application of heat
- Made at ISO 9001:2000 certified facility
- Environmentally-friendly with no lead chromate, heavy metal compounds or VOCs during application or removal



3M™ Stamark™ High Performance Pavement Marking Tape

Series 380I ES

Series 380I ES extended season tape combines reflective beads, a durable topcoat and an improved adhesive for a high performance tape that may be applied in temperatures as cool as 40 degrees F. The improved adhesive package extends the striping season by several months and eliminates the need for surface preparation adhesive, saving time in the overall application.

Benefits

- Extended season application
- Superior retroreflectivity day or night due to unique ceramic beads
- Ease of application without the use of surface preparation adhesive

Available in:

- A380I ES (Non-Lined) White
- A381I ES (Non-Lined) Yellow
- L380I ES (Lined) White
- L381I ES (Lined) Yellow

Suggested Use

- Asphalt or concrete
- Interstate highways, dark rural roads, urban street intersections

Ultima Data - Logging - Analysis



What?



When?

Ultima, a unique Tablet Computer controlled development from the well established vehicle based Scarecrow Premier 1500 bird dispersal system. Operation is simplified by user selectable languages of English, French, German, Italian and Spanish; others can be specified to special order.

The 21 cm (8.4") touch screen can display a database of bird recognition information, including full screen illustrations to aid identification. Ultima self-learns the routine of each Operator, also remembering, for example, prominent species present airside and the various sound levels previously used at GPS dependant airside locations. Ultima establishes proof of dispersal procedures completed in real time, logging Operator, species, time and date; its inbuilt GPS function logs the vehicles airside position from which dispersal took place.

Ultima is a complete system, including roof mountable loudspeakers, Tablet mounting brackets, microphone for live announcements, back-up control unit and hot-pluggable USB flash drives to enable data captured to be transferred from the vehicle to the airfield analysis system for which audit software is provided.

The flash drive can also act as an identity key for each Operator, offering proof of their use and an audit trail of all processes to prove due diligence and to provide long term analysis of bird behavioral patterns.



Where?



How?



Proof?



Further benefits

In addition to the feature detailed previously, the software driven basis of Ultima means that subsequent improvements and enhancements to the software can be delivered to existing system users via USB flash drive upgrade. For example, this could include enhanced bird species recognition pages and developments in functionality. Ultima has a graphical data interface, so can be understood easily across the world. However, the software is also multilingual, so the required language can be selected. The Ultima system also features a hard-wired remote control for use in the event of a tablet PC failure.

Premier 1500



The broadcast of distress calls, as part of an integrated bird management scheme, has proved effective for bird dispersal from airfields and surrounding areas. It is an essential part of flight safety and must be carried out efficiently to minimize bird strike risk to aircraft, their passengers and crew.

Scarecrow are acknowledged leaders in their field, producing digital audio storage systems of the highest technical standard. Scarecrow products are approved and used by major civil airports and in military aviation throughout the world, representing state of the art technology to fully meet the challenging task of bird strike avoidance.

Scarecrow bio-acoustic bird dispersal systems are humane and inoffensive in their function, exploiting natural bird behavior for their success. New technology, designed to further improve the well established efficiency of Scarecrow Premier Products, forms the basis of this product. 12v vehicle operation (24v operation available), requires the addition of two loud speakers.



A durable preformed thermoplastic pavement marking material that is specially formulated for airfield applications.

****Sherwin Industries, Inc. is a Certified AirMark Applicator****

- Applied with large radiant heater and propane heat torch by Certified Applicators for quality assurance and maximum safety
- Durable preformed thermoplastic pavement markings
- Other colors include, but not limited to: blue, black, red, pink
- Applies to bituminous and/or portland cement concrete (including Green concrete)
- FAA-compliant marking designs and colors
- Supplied at 65 mil for cost-effective service life
- Interconnected colors and shapes of material saves significant time when positioning marking for application
- Resistant to aviation fuels, motor fuels, lubricants, de-icers, etc.
- Retroreflective glass beads mixed throughout material so as the marking wears new beads are exposed for retained retroreflectivity
- Clean, crisp appearance
- Preheating pavement to specific temperature is not required with road and ambient temperatures down to 35° F
- Indents in top surface of material provide a visual cue during application for proper heat and bead embedment
- Re-opened to traffic 15 minutes after application
- Made at ISO 9001:2000 certified facility
- No lead chromate or VOCs
- Removes easily with waterblasting



Lighted Runway Closure Marker

S1701



Features

- Trailer mounted
- 110 Volt Diesel Generator Powered
- Sets up in two minutes or less
- Day and Night Operation
- Tandem towed at highway speeds
- Visibility - 3.5 miles daytime VFR
Minimum 6 miles nighttime VFR
- Specification/Certification sheets available upon request



S1703



OPTIONAL - S1703 (not included in Standard Specifications)

- Heavy-duty coated vinyl Lighted X covers
- Anti-mildew with UV pigments
- Color - yellow



Sherwin Industries, Inc.
MILWAUKEE, WISCONSIN
ESTABLISHED 1938

Phone: 800-525-8876 • Fax: 414-281-6404

Safety Barrier

Type: Safety Barrier Model 4202-25 (Low Profile Airport Barrier)

Standard Colors: Safety Orange or Safety White

Composition: UV-Resistant Polyethylene

Size: Height: 10" / 256 mm

Length: 96" / 2438 mm

Width: 10" / 256 mm

Wall: .25" / 6.35 mm (Avg.)

Mass: 28 lb. (empty) / 253 lbs. (filled with 27 gal. water) 387 lbs. (filled with sand)

Part Number	Color
4202SO-25	Safety Orange
4202SW-25	Safety White



Barrier Lights/Flags

S601



S360SC



SB360RY



Features

- Utilizes 4 LEDs to project a 360 degree flashing light pattern
- Lasts 76 hours after fully charged
- Internal solar panels allow light to exit through top of dome giving more visibility to pilots
- Standard 2" water pipe thread allows for easy installation
- Poly carbonate dome and base
- Manual external on/off switch

Features

- Flash and steady operation
- Colors: Amber, Yellow, Red, Blue and White
- Lasts 120 hours in flash mode
- Last 72 hours in steady mode
- Photoelectric controlled
- Flash rate 60+/- times/minute

Features

- Flash and steady operation
- LED Circuitry
- 3-5 year battery life
- Rugged case, customer specified case color
- 3 Bolt options - D-bolt, Pyramid, moon
- Lens Colors - Amber, Red, Blue Green and Clear

MODEL 630



Features

- Utilizes 4 LED bulbs to project an omnidirectional light pattern.
- Available in steady burn or flashing configurations.
- Two spring type 6 volt batteries will power a flashing light for up to 9 months.
- Manual on/off switch recessed inside battery case.



20" x 20" Safety Flag with Diagonal, 30" Staff

Part Number	Color
SFP20-30	Orange
SFP20-30W	White

Runway/Taxiway Light

Light Specifications

• Operating Voltage

Low Voltage Cutoff: 2.8 volts
High Voltage Cutoff: 3.8 volts
Average Battery Voltage: 3.2 volts

• Solar Charger

Charge Current: 320mA to 290mA
Number of Charge Hours Typical: 6 Hours
Battery 18650 LiFePO: 1.3 AH
Battery Capacity: 16.64 WH (4 batteries)

• Night Time Flash Mode

Peak Power (LED's): 0.350 W
Flash On time: 0.2 Sec
Flash Rate: 1 Sec
Total Energy/Day (12 Hours): .84 WH/day
Safety Margin: 6.6
Reserve Capacity, flash days: 19.8 days

•

SOLAR ECLIPSE RUNWAY/TAXIWAY LIGHT



SAR .360x

Color Options Available:
White, blue, amber, red, green/red

• Night Time Steady Mode

Peak Power (LED's): 0.350 W
Duty Cycle: 0.4 Sec
Total Energy/Day (12 Hours): 1.68 WH/day
Safety Margin: 3.3
Reserve Capacity, flash days: 9.9 days

• Battery Life

Design for 5 to 8 years
Guarantee for 3 years

• Case Materials

Lens: Polycarbonate
Base: Polycarbonate
Dust Cover: Polycarbonate
Solar Cell Lens: Glass

• LED Output Power

Steady: 7 cd
Distance: over 2 Miles
Flashing: 25 cd
Distance over 2 Miles

Mode Selection: The mode is set by swiping a supplied magnet along the top of the light. Each swipe will increment the mode from Steady to Off and then to Flash to Off. Once the mode is set the light will stay in that mode until changed by the user.

Mounting: The mounting of this light can be done three ways.

Pipe Mount: Located on the bottom of the housing is a 1 inch NPT thread. Utilize this thread for pipe mounting.

Magnet Mount: There is an optional magnet that can be purchased for magnet mounting applications.

Bolt Mount: The light can be bolt to any object using the three holes on the base. They are designed for #10 bolts.



- Patented Quick-Change Base for any airport lighting needs
- Solar Lights and Fixtures for Heliports
- Airfield lighting system with solar lights and fixtures
- Affordable solutions for remote landing lights
- Windsocks for roadways or airfields



Airport Safety Construction

Flag (Follow Me)

Heavy duty nylon flag.

Orange and white checker.

Item #
APF - S6040

Description
36" x 36"



60" Wooden Mast for Flags

Item #
S6041

Airport Taxi-way & Runway Light Markers

Item #
S1503
Description
TLMF 28 3/4"



Lighted Safety Batons

- Constant or Flashing Light
- Four Color Selection
- Visible Up To One Mile
- Use Two AA Batteries
- Up To 400 Hours of Battery Life (Flashing Mode)
- Completely Safe- Only 3 Volts
- Used By Police, Fire, Railroad, Airport & Pedestrian Safety Personnel



Item #
SIB-4R

Windsock Hardware

Frames are constructed of heavy duty wire with sleeve and set collars. Zinc coated for weather protection. Rotate freely with no maintenance required.

Item #
WS10HW
WS18HW

Description
10" Windsock Hardware
18" Windsock Hardware



Replacement Airport Windsocks

Our highly visible and durable windsocks are made of Fluorescent vinyl coated fabric. **Hardware available for WS10 and WS18.**

Item #	Throat	Apex	Length
WS10	10"	4"	24"
WS18	18"	8"	96"
WS36	36"	12"	146"

Bowmonk AFM2

SBOW009



FAA Approved for Winter Runway Friction Testing Standard Features

- 32 character high contrast alpha-numeric liquid crystal display with back lighting for night-time visibility.
- Tactile switches, with beep, for selection purposes
- Automatic cancellation of faulty friction tests
- Manual cancellation of any test if required
- Provides for temporary suspension of friction testing with no loss of recorded data
- Stores up to 99 friction readings
- Provides each third of runway and operator identification
- Permits field programmable airport name runway and operators through keypad or bar codes
- No mounting kit required
- 128k byte CMOS memory with battery backup
- No connection to vehicle required
- Built in 6 volt rechargeable battery (external voltage for battery recharge 9v to 18v DC) powers unit for at least 12 hours. Can be recharged from main power pack or car cigarette lighter outlet
- Built in temperature compensated accelerometer records runway friction coefficient in compacted snow and ice conditions as %g

The FOD*BOSS

SFB2400-0



Environmentally Clean and Silent

From the largest Int'l airport to the smallest local strip, the FOD*BOSS revolutionizes FOD control. Single, duplex and triples units available.

Battery electrical powered vehicles can tow the FOD*BOSS with ease making it the only FOD sweeper with this desirable capability.

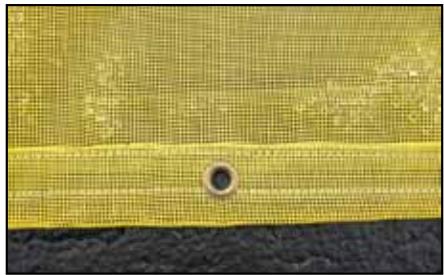
The FOD*BOSS is low impact on aircraft movement surfaces reducing pavement damage often caused by heavy sweeping machinery.

Its quiet operation makes it convenient to use around the clock in noise sensitive areas.



Sherwin Industries, Inc.
MILWAUKEE, WISCONSIN
ESTABLISHED 1938

Phone: 800-525-8876 • Fax: 414-281-6404



Vinyl X-It

Features

- 1) Lightweight - 50 lbs. per piece
- 2) 10 colors available
- 3) Porous
- 4) Vinyl coated polyester fabric
- 5) Inexpensive
- 6) Weighted ends
- 7) Swivel in middle
- 8) Custom sizes available

Benefits

- 1) Easy to install, move, pickup and store
- 2) Aesthetically pleasing yellow & orange
- 3) Lets rain & wind through
- 4) Tough & durable - won't stretch, shrink or fade
- 5) Non-budget item
- 6) Pieces can be rolled together for ease of storage
- 7) Any situation or size can be accommodated

Standard Size 60' x 10' (2 pieces to make a full X-it).

Standard Size 30' x 5' (2 pieces)

Water Filled Lay Down Vinyl X

APPLICATION

Rural Electric's closure-X is made of durable vinyl coated fabric and provides airports with a reliable and economical method for closing runways and taxiways to aircraft use. The solid yellow color provides superior visibility for a clear indication of closures.

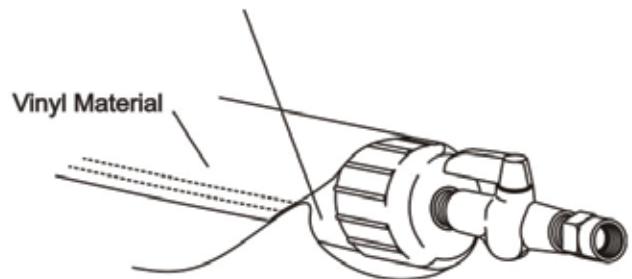
FEATURES

- Convenient anchoring is accomplished by filling a 3 inch "Fire Hose" bladder that runs the entire perimeter of the vinyl sheet
- Water bladder is resistant to wind and is more "forgiving" than sandbags or stake in the event of an aircraft strike
- Material is mildew and U.V. resistant as well as double seamed for durability
- Easy removal is allowed by opening a drain at the low point of the bladder. Approximately 50 gallons of water is required per one half of the Runway Closure-X60 and approximately 25 gallons for one half of the Taxiway Closure-X30

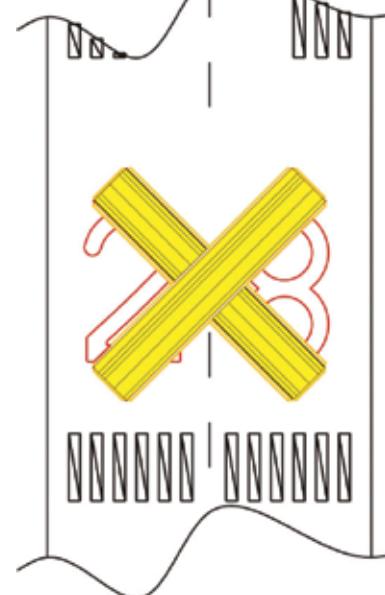
INSTALLATION

- Each leg of the "X" is unrolled and located over the runway numbers or other chosen location
- Water is pumped or gravity flowed in the hose fitting in the 3" diameter bladder. A vent is opened on the other end of the bladder and a short extension hose is attached and elevated to ensure complete filling of the bladder

3" flexible Fire Hose
filled with water weighs
approximately 420 pounds per leg



APPLICATION



The Runway Closure-X60
is two 10' x 60' Pieces of
Bright Yellow Vinyl

The Taxiway Closure-X30 is
two 5' x 30' Pieces of Bright
Yellow Vinyl

Portable Lighted Taxiway Barricade System

STBS



- Closing a taxiway has never been easier
- 55 Hour Run time on single fuel load
- 2700 watt diesel powered generator
- 150 ft. Flexible L.E.D. lighted rope
- Nine—52" Reflective Stanchions
- Nine—Regulatory Signs
- Custom 5' x 8' Trailer w/ Obstruction Light
- One person operation
- Protective Fitted Cover



Permathane Gold Blades

Urethane Advantages:

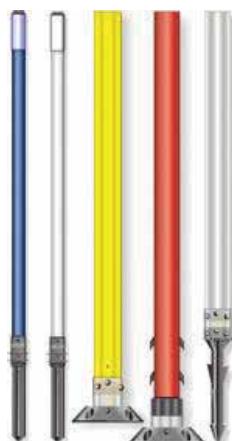
- It reduces damage to in-ground lighting.
- It reduces impact on plows, blowers, and vehicles when solid edges, objects or surface changes are impacted.
- It greatly reduces driver fatigue.
- It reduces vibration.
- It will outlast rubber by approximately 8:1 in applications requiring low impact cutting edges.
- Urethane cutting edges are multi-adjustable for extended use.
- Blades are custom cast to customer requirements for thickness, length, width, edge angle, and mounting bolt patterns.
- Water and slush are squeegeed out of shallow depressions preventing ice spots from forming.



Compound B87G Specifications

ASTM

<u>Property</u>	<u>Test</u>	<u>Value</u>
Tensile Strength	D412	7100 PSI
Elongation	D412	550%
Bayshore Rebound	D2632	29%
Tabor abrasion	H-18	.0137 grs per 1000 cycles
Coefficient of Friction	Concrete	.70
Durometer	D2240	87 Shore A
Melting Point		400 Degrees F



FlexStake

FlexStake makes five markers that are particularly well suited for airport use. Because of their ability to withstand multiple traffic hits at up to 80 mph, the FlexStake HD, SM, and TM are used on runways and taxi strips. At speeds up to 80 mph, these posts can be run over by a plane without damage to landing gear or post.



HOT WASHABLE JACKETS



**ANSI
CLASS** 3



**ANSI
CLASS**

3



APX757HC3b
"X-TRA" VISIBILITY
ANSI CLASS 3 PARKA

**ANSI
CLASS** 2

AJY646SC3b
ANSI CLASS 2
BLACK BOTTOM
TOW JACKET
AVAILABLE IN
CHILDREN'S SIZES

AJX759HC3b
ANSI CLASS 3 "HUMAN FORM"
JACKET - "X-TRA" VISIBILITY



PHO114



PHY114



KCO103



KCY103



SCY111



XCY121



XCO121

**ANSI
CLASS** E



ABC690HCE
ANSI CLASS E BALLISTIC BIBS

HOT WASHABLE

PERSONAL SAFETY

**ANSI
CLASS** **2**



AMY721SC2



AMO721SC2



ASO112SC2



ASY112SC2

**ANSI
CLASS** **3**



AMY706HC3



TSY207



TLY209



AMO706HC3

TLO209



TSO207

OTHER OPTIONS AVAILABLE UPON REQUEST

BREAK-AWAY

Offering the utmost in safety, our break-away vest does just that.

- One inside pocket, one outside pocket with pen compartment and a utility loop
- 2" 3M™ Scotchlite™ reflective tape: One 360° horizontal stripe, two vertical stripes

LUX-SSBRP

Yellow: M to 7X
Orange: M to 5X



LIGHTWEIGHT CREW

- 50% polyester / 50% cotton fabric provides breathability and comfort
- 2" reflective tape: One 360° horizontal stripe, two vertical stripes



Above Shown Combined
With The **LUX-TJR**
Rainwear Jacket

LUX-SWTL

Yellow: M to 5X

LIGHTWEIGHT HOODED

- 50% polyester / 50% cotton fabric provides breathability and comfort
- 2" reflective tape: One 360° horizontal stripe, two vertical stripes



LUX-TENR

Yellow: M to 5X

RAIN PANTS

- 50% polyester / 50% cotton fabric provides breathability and comfort
- 2" reflective tape: One 360° horizontal stripe, two vertical stripes

PERSONAL SAFETY

WEATHER RESISTANT

Outside fabric PVC coated polyester. Extremely bright, 100% weatherproof material. Perfect companion to any of our jackets. Expandable waist, snaps for securing cuffs, and 2 pocket openings.

- 2" 3M™ Scotchlite™ reflective tape, four 360° horizontal leg stripes
- Pass-through Pockets



LUX-TEN

Yellow: S to 5X
Orange: S to 5X



LUX-TJR

Yellow: S to 5X
Orange: S to 5X

RAIN JACKET

With technological advancements and a revolutionary design, this breathable waterproof and windproof jacket provides maximum protection against the harsh elements.

The lightweight breathable fabric provides ease in mobility while the roll up hood offers head and face protection.

- 2" 3M™ Scotchlite™ silver reflective tape: Two 360° horizontal stripes, four 360° horizontal sleeve stripes
- 17 mil thickness



TWO TONE BOMBER

The TJBJ-B answers our customer's requests for a jacket that looks cleaner after a hard day of work. Black fabric on the lower front and sleeves fights the "dirty jacket look".

LUX-TJBJ-B

Yellow: M to 6X



LUX-TJEC

Yellow: S to 6X
Orange: S to 6X

LIGHTWEIGHT BOMBER JACKET

PU coated polyester outer, lightweight poly fleece inside lining. Black collar, cuffs and waistband. Stylish.
Spring / Fall Weight

- 2" 3M™ Scotchlite™ silver reflective tape: One 360° horizontal strip, two vertical stripes, and four 360° horizontal sleeve stripes



JACKET COLLECTION

All TJBJ ANSI Jackets have 2" 3M™ Scotchlite™ Silver Reflective Tape, One 360° horizontal stripe, Two vertical stripes, and four 360° horizontal sleeve stripes



Zip out the fleece jacket leaving a two layer light-weight coat.

Zip off the outer jacket sleeves and remove the fleece lining leaving a Class 2 vest.

Inner fleece jacket can be worn alone on cool days when working away from traffic.

All three jackets in the TJBJ Collection can be worn 4 ways. PVC coated polyester, nylon lining with heavy poly fleece removable inner jacket and removable outer jacket sleeves. Black collar, cuffs and waistband.

Super warm, versatile, and stylish. Their versatile design means you'll wear them for work or weekend.

Weather resistant construction.

LUX-TJBJ

Yellow: S to 6X
Orange: S to 6X

ORIGINAL BOMBER

Forestry

Woodsman™ Forestry Systems

The perfect solution for a variety of protection needs:
Chainsaw/machinery operation, sandblasting, woodworking,
home repairs

- Three systems to choose from with NRR's ranging from 22-24
- Gladiator® six-point Ratchet hard hat with Reflex™ suspension system
- Extra low padded nape strap for ultra-secure fit
- Full feature clip on earmuffs with stand off and storage positions plus tension adjust. All cap-mount earmuffs come with Soft-Seal™ cushions
- T-5000 Super-Tough visor carrier can be raised and lowered to three detent positions, seals off at hardhat brim for falling particle protection.

- Molded steel mesh face screen designed for superior impact and temperature resistance. Epoxy coated for glare and corrosion resistance
- All components meet or exceed ANSI requirements
- Fully dielectric fiberglass mesh screen available
- Woodsman models 6000, NRR=22 (T-2000 earmuffs)
- Models 6001 and 6030, NRR=24 (Blackhawk, Sound Star earmuffs)



6000



6030

Head Protection

Gladiator® Hard Hat

The Gladiator® Hard hat features the most rigid UV resistant shell available and a patented six-point ratchet suspension. The Gladiator's unique Re-Flex™ suspension technology effectively distributes and absorbs impact force. The suspension system also features our Cool Guard™ self-wicking brow pad, unique ratchet pad and extra-low nape strap for an ultimately secure and comfortable fit. Standard slots are available to accept most accessories. The Gladiator® is offered in blue, green, orange, yellow, red, white, black, lime green and fits head sizes 6 to 9.



Meets ANSI Z89.1-1997 Type I Class E

Phase I



Unique, patented multi-phase suspension uses eight elastomer inserts to absorb and disperse the initial impact.

Phase II



Extra-wide webbing continues to disperse impact.

Phase III



Manufactured from racing helmet material, the Gladiator's shell provides greater deflection than standard polyethylene shells.

Secure Fit



The lowest available true nape strap and padded locking ratchet ensures a secure fit and keeps the Gladiator where it belongs on your head.

Miscellaneous



Spirit-leg Waist Apron

Bib Apron

Cape Sleeve with Bib Sets

These items are ideal for use with a hot air lance or for use with crack sealing operations. Great protection from burns!
CALL FOR PRICING.



Leggings



Cloth Work Gloves



Leather Work Gloves



Personnel Safety Water-Jel Burn Products



<u>PART #</u>	<u>DESCRIPTION</u>	<u>Size</u>
S6012	Burn Wrap Blanket in a canister #3630	3" x 2.5"
S6012A	Burn Wrap Blanket in a pouch	3" x 2.5"
S6012B	Industrial/Welder's Burn Kit IWK5	
S6012C	Burn Kit (Food Service)	
S6012D	Utility Kit UK5	
S6013A	Fire Blanket-Plus in a canister #7260	6' x 5'
S6013B	Fire Blanket-Plus in a pouch	6' x 5'
S6014	Heat Shield Blanket in a canister #9672	
S6020	W-J Burn Jel Squeeze Bottle	4 oz.

Heavy Duty Mounting Brackets for Above Canisters

<u>PART #</u>	<u>DESCRIPTION</u>
S6015	Mounting Bracket for Canister #9672 Heavy Duty
S6015A	Mounting Bracket for Canister #7260 Heavy Duty
S6015B	Mounting Bracket for Canister #3630 Heavy Duty



Water-Jel Sterile Burn Dressing - First Aid for Burns

<u>PART #</u>	<u>DESCRIPTION</u>	<u>Size</u>
S6011A	Burn Dressing	2" x 6"
S6011	Burn Dressing	4" x 4"
S6011B	Burn Dressing	4" x 16"
S6011C	Burn Dressing	8" x 18"
S6011D	Burn Dressing for Facial Burns	12" x 16"

Cool Jel

<u>PART #</u>	<u>DESCRIPTION</u>
S6017	Cool Jel 4 oz. squeeze bottle for minor cuts, scrapes, and burns
S6017A	Cool Jel Unit Dose (3.5 gms ea.) 6 packs/box in a unitized box

These products are used to protect your skin from the skin irritation that coal tar sealer can cause. It is recommended for our customers to use them before skin irritation starts and to use after work for continued protection.

S1112	Medicated Cream	5 oz. Tube
S1113	Hand Cleaner	5 oz. Tube
S1113A	Hand Cleaner	1 gallon



RAC Plus I

...the standard in distance measuring instruments



The RAC Plus I brings the accuracy, reliability and productivity of using a vehicle installed distance measuring instrument within the reach of everyone. All distance and speed information can be read directly from the RAC Plus I's display - no software is required to view your data. This unit is a replacement for our older model RAC-100 DMI.

ROADWATCH Pavement Temperature Sensor



Available As:

RW 1 Standard Kit - 12' cable 12-volt system hard wire
Standard Kit, 16' cable
J1708 and RS232 options available
DC1 Spreader Controller
Polished Sensor Case, Standard Kit
Mounting accessories included for mirror mount



SRWI Basic Kit

Two Number Display Gauge
Air Temp
Shows Road Temp -40 + 122 degrees F
Used by Municipalities for:
Snow Plows - chemical deployment
Paving - patching and slurry
Wherever temperature sensitive substances are deployed

Road Surface Temp
Second Generation Hi Brite Gauge and Connectors

Road Line paint deployment
Weed control chemical deployment

The Bowmonk BrakeCheck Portable Brake Tester

The Bowmonk BrakeCheck is a fully self-contained, portable, battery-powered device that can be used by workshops, government traffic authorities, testing and inspection stations etc. to test and report on vehicle brake efficiency.



- Peak & Average Deceleration
- Indicates Left / Right Pull
- Service & Hand Brake Test
- Battery Powered
- MOT Approved
- Automatic Level
- Portable - Lightweight
- Option to Print via 3 different methods

SAMPLE OF PRINT OUT

BrakeCheck

=====

Serial No: BRK00176

S/W Version: 1.0.05

Test Performed:

12:17:45 03/06/2003

Service Brake Test

=====

Front-Back Deceleration

Peak: 90%g

Average: 65%g

Left-Right Acceleration

Peak: 5%g

Vehicle Pulls: Right

Test Speed: 35 km/h

Stopping Dist: 7.5m

Brake Efficiency: 64%

Calibration Ok

Due: 06/06/2005

.....
Vehicle Registration

.....
Inspector Nae

.....
Signature

Part Number

Description

SBOWC

Bowmonk BrakeCheck System with standard accessories:

Includes:

- BrakeCheck with battery charger
- Carrying Case
- Infrared printer
- Case of Replacement Paper 10 rolls per case

SBOW801

BrakeCheck with battery charger

SBOWCS

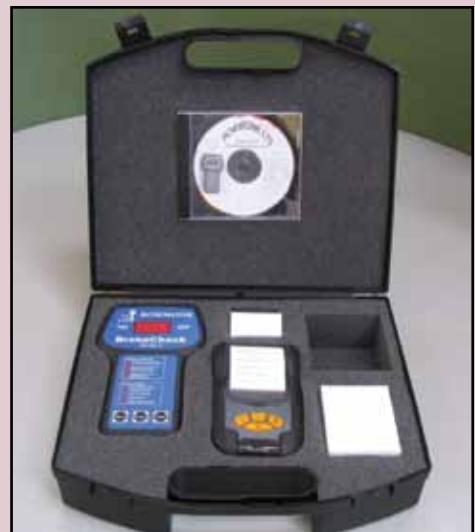
BrakeCheck carrying case

SBOW808

Infrared Printer

SBOWRP

Case of Replacement paper 10 rolls per case



Optional Accessories

SBOW804

PC Download Cable

SBOW123

Cab Check PC Program

LCD Color Monitors

They are designed for the rugged conditions on the road and will last the lifetime of your vehicle. With our monitors drivers can change lanes, pull into traffic, and back up safely with more confidence and less risk of accidents. Companies and Municipalities can protect themselves and increase overall safety.

HC 703M

7" TFT LCD Color Monitor w/Audio



Features

- 7" Brand New Panel / Aspect Ratio 16:9
- 3 Screen Mode: Wide, Full and Normal
- 2 Video Inputs & Audio Inputs / 1 additional Video Input
- Resolution 1440(H) X 230(V) Pixels / Luminance 300cd / m²
- Monitor Function in Reverse Gear
- NTSC, PAL-BGDHI, PAL-N, Secom etc Multi System
- Up & Down / Left & Right Screen Flip Function
- Full OSD Function
- Full Functional IR Remote Control
- Screen Noise Deduction (Blue Back Screen)

Specification

DESCRIPTION	7" LCD MONITOR
Power Source	DC 13.5V
Video System	NTSC / PAL / Secom Compatible
Operation Temp.	-10° C degree ~ +70° C degree
Storage Temp.	-40° C degree ~ +80° C degree
Dot Pitch	0.107(H) X 0.370(V) (mm)
Luminance	300cd / m ²
Viewing Angle	+40 to ~ -60 degrees (V)/ +50 ~ -60 degrees (H)
Consumption Power	9.5 W
Features	*Video 1 / Audio L/R (Stereo) Input *Video 2 / Audio L (Mono) Input *Earphone Jack Stereo Output *1W 4 Ohm Speaker
Dimensions	193mm X 129mm X 22.8mm
Weight	550 g
Accessories	1X External Antenna Input 2X AV Input 1X DC 12.5V Input 1X Monitor out Wireless Remote Control



HC IR270 Color Mobile Camera



Features

1/3" Sony Super HAD CCD: 270K Pixels & 420TV Lines
 Heavy Duty Vibration & Shock Resistant
 Built In Audio
 Aluminum Die-casting Housing
 130° Wide Viewing Angle
 Water-Proof Camera and Cable (IP66)
 Built-in 18 IR LEDs

Specification	
Model	DF-8073
Image Pick-up Device	1/3" Sony Color CCD
Horizontal Resolution	420 TV Lines
Number of Pixels	NTSC:510(H)×492(V); PAL:500(H)×582(V)
Scanning System	NTSC:525 Lines,60 Field/sec, PAL:625 Lines 50 Field/sec
Sync System	Internal Synchronization
Gamma Characteristic	0.45
S/N Ratio	≥45dB(AGC Off)
Electronic Shutter Time	Auto, NTSC 1/60~1/100,000Sec,PAL 1/50~1/100,000Sec;
Usable Illumination	0Lux at night(18 IR LED ON)
Lens mount	2.9mm
Video Output	1.0Vp-p 75 ohm
AWB AGC BLC	Auto
Power supply	DC 12~24V
TV system	NTSC/PAL
Operation Temperature	-10°C~+50°C RH95% Max
Storage Temperature	-20°C~+60°C RH95% Max
IR power on	CDS auto control under 10Lux by CDS(10Lux cds on)
Weight	340g

MiniTemp®

Portable Infrared Thermometer

The MiniTemp MT6 thermometer - introducing automotive professionals to noncontact temperature measurement.

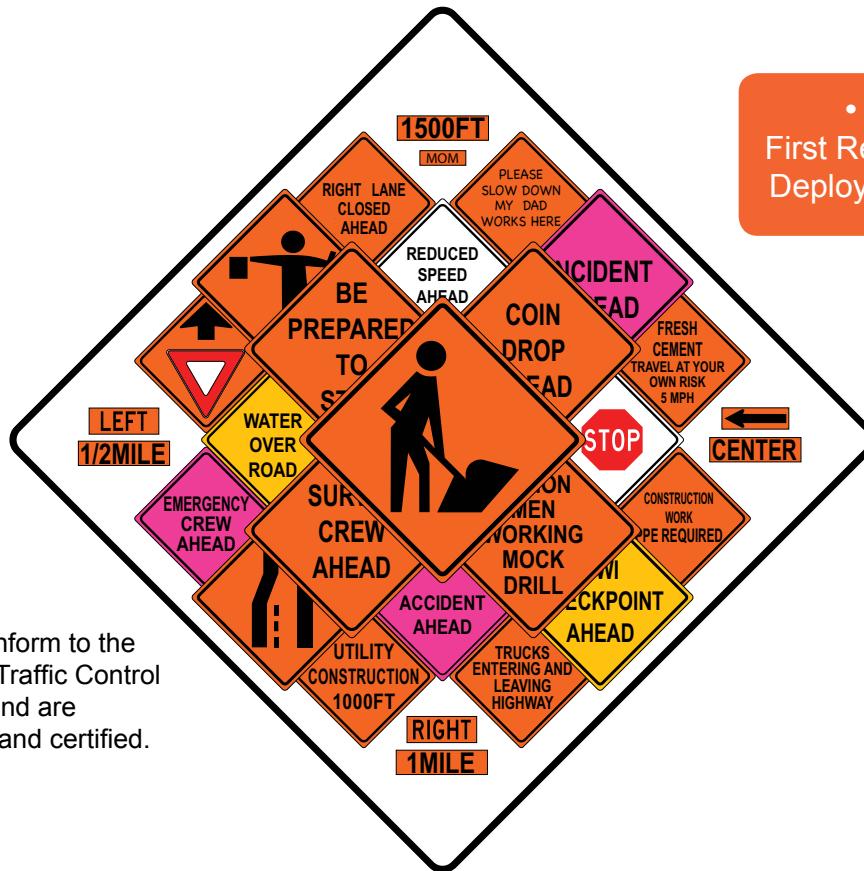
Noncontact Temperature Measurement



Specifications	
Measurement range	-30 to 500°C (-20 to 932°F)
Accuracy	±1°C (2°F) from 10°C to 30°C (50°F to 86°F), ±1.5% of reading or ± 1.5°C (3°F) whichever is greater over the balance of the range (assumes standard and stable measurement conditions)
Repeatability	±0.5% of reading or ≤ ±1°C (±2°F) whichever is greater
Emissivity*	preset 0.95
Response time	<500 mSec
Distance to spot size	10:1 calculated @ 80% energy
Spectral range	6.5-18 um thermopile detector
Display resolution	0.2°C (0.5°F)
Display hold (7 seconds)	
LCD backlit	
Temperature display	°C or °F selectable
Ambient operating range	0 to 50°C (32 to 120°F)
Relative humidity	10-90% RH noncondensing, @ up to 30°C (86°F)
Typical distance to target (spot)	Up to 2 m (6ft)
Laser class II	Laser Point Sighting
Weight/dimensions	7 oz (200g) 152 x 101 x 38 mm (6 x 4 x 1.5 in)
Power	9V Alkaline battery (included)
Battery life (alkaline)	12 hours
Storage temperature	-20 to 65°C (-4°F to 150°F) without battery
Options/accessories	Includes protective boot and storage pouch
Warranty	2 years** (conditional)

Standard and Custom Roll-Up

For daytime use we offer **Premium Mesh** and **Non-Reflective Vinyl** with superior fade resistant UV stabilizer. For daytime as well as nighttime usage, we offer **Standard Reflective** and **High Performance Reflective** materials.



• Available •
First Responders Traffic Deployment Pink Signs

All Roll-Up signs conform to the Manual on Uniform Traffic Control Devices (MUTCD) and are NCHRP-350 tested and certified.

Overlays

All overlay panels attach to sign faces with durable, weather resistant brass snap button fasteners. Velcro may be used upon request. Signs and overlays are designed so that overlays may be attached to the back of the sign for storage.



Roll Up Sign Sheeting

Diamond Grade™ (DG)

3M™ Diamond Grade™ Roll-Up Sign Sheeting Series RS20/RS24 is a visible light-activated fluorescent wide angle prismatic lens reflective sheeting designed for the production of Roll-Up traffic control signs used in construction work zones. This sign sheeting is designed to provide higher nighttime sign brightness than sheetings that use glass bead lenses. RS24 sheeting has higher daytime brightness than ordinary (non-fluorescent) colored sheeting. Series RS20/RS24 sheeting is backed with a strong, flexible, gray-coated fabric.

<u>Color</u>	<u>Product Code</u>
White	RS20
Fluorescent	
Orange	RS24



High-Intensity

3M™ Roll-Up Hi-Intensity Sign Sheeting Series RS30 consists of retroreflective microprisms formed on a flexible glossy and UV-stabilized polymeric film, designed for the production of roll up traffic control signs used in work zones and emergency traffic control. This sign sheeting is designed to provide higher nighttime sign brightness. Series RS30 sheeting has a protective film on the facing side and is backed with a heavy duty vinyl coated fabric.

<u>Color</u>	<u>Product Code</u>
White	RS30
Fluorescent Pink	RS33
Fluorescent Orange	RS34

Non-Reflective Fluorescent Orange Roll-Up Signs

Non-Reflective Fluorescent Orange Roll-Up Signs are constructed of a fabric reinforced UV stable vinyl. This construction will not delaminate and provides excellent durability and fluorescence stability.

Non-Reflective Fluorescent Orange Roll-Up Signs are suitable for maintenance and moving operations. They are intended for daytime use only. They are not intended for use during night operations or low light conditions.

Marathon (M)

Reflexite's Roll-Up sign blanks which utilize Marathon Fluorescence take performance to a higher level. The longer lasting fluorescent color gives the sign a longer useful life and offers outstanding visibility, day and night. Higher levels of photometric performance ensure superior reflectivity at night and in low light conditions. Reflexite high Performance Marathon Fluorescence signs are available in the following colors: fluorescent orange, fluorescent yellow-green (lime), non-fluorescent white, and the new fluorescent yellow.

<u>Color</u>
Marathon Fluorescent Orange
Fluorescent Yellow-Green (lime)
White
Fluorescent Yellow



Roll Up Sign Sheeting

Super Bright (SB)

This is one of Reflexite's most popular products. Super Bright fluorescent prismatic sign blanks are used by our customers to create the work zone signs you see on the road. As a motorist, you benefit from maximum visibility at long distances, day and night. Reflexite's color stability technology ensures a long and useful life. Super Bright colors are: fluorescent orange, non-fluorescent white, yellow and the new fluorescent pink color recommended for Incident Management applications.

Color

Fluorescent Orange	Fluorescent Pink
White	Yellow

Premium Mesh

Bone Safety Signs' true fluorescent orange mesh is flexible, breathable, and mildew resistant. Great strength and durability, along with high color visibility, make this fabric ideal in safety applications.

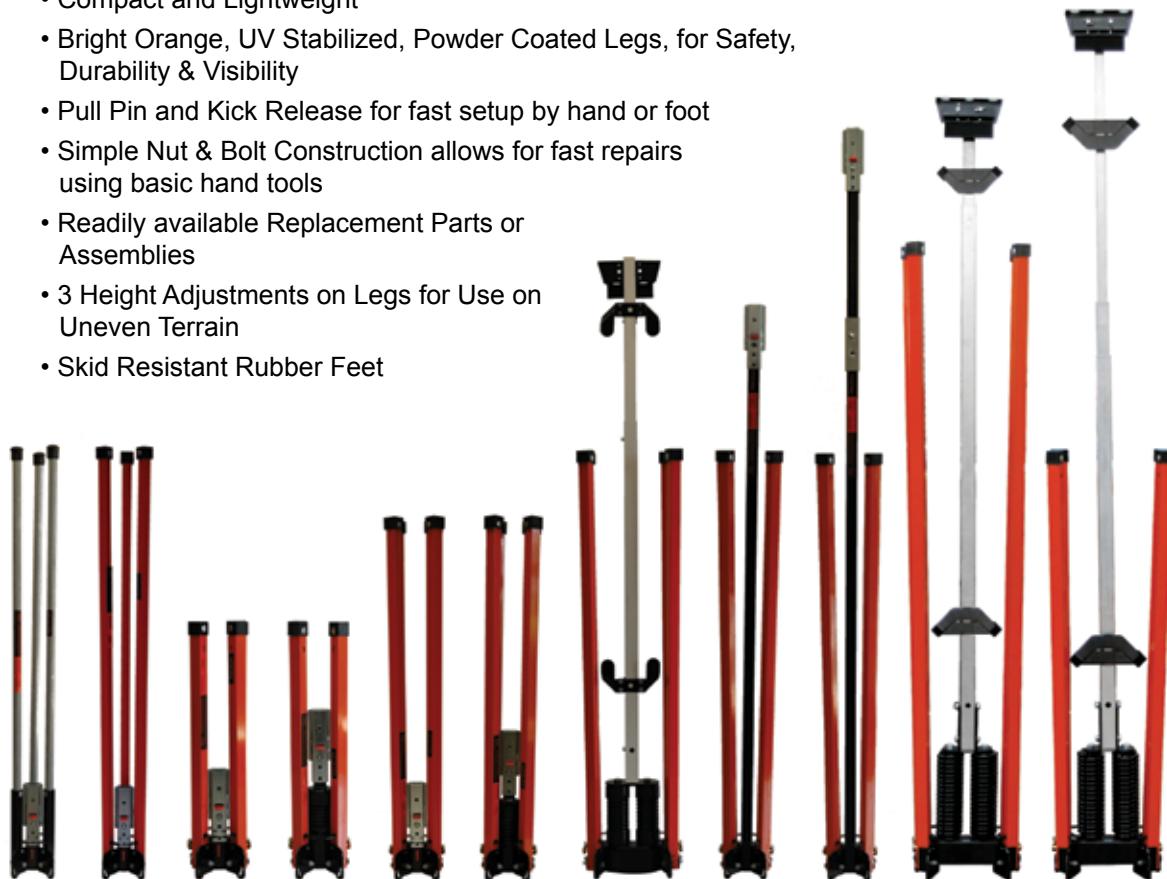
Color

White
Fluorescent Orange

Sign Stands

Sign Stands come with our patented Auto-Latch mechanism, unless our Universal Bracket is requested. The advantage of our Auto-Latch is the speed in which the sign is attached and released from our stands.

- Crash Design Breakaway Base
- Exclusive Quick Release System for all modular attachments and accessories
- Compact and Lightweight
- Bright Orange, UV Stabilized, Powder Coated Legs, for Safety, Durability & Visibility
- Pull Pin and Kick Release for fast setup by hand or foot
- Simple Nut & Bolt Construction allows for fast repairs using basic hand tools
- Readily available Replacement Parts or Assemblies
- 3 Height Adjustments on Legs for Use on Uneven Terrain
- Skid Resistant Rubber Feet



Green Cross Product Line

The Green Cross system is most effective on unsignalized low-speed two-lane streets. The mobility of the Green Cross system allows it to be taken in and out of the street during the school day, enhancing the effectiveness of the system.

- Durable yet extremely lightweight safety posts to highlight crosswalk areas
- Bases to secure safety posts in the roadway, portable and fixed
- Highly reflective flags, signs and stop paddles



- Crosswalk safety signs, complete crosswalk safety kits
- Signs are manufactured w/ 3M Diamond Grade Fluorescent Yellow Green Sheeting with White Hi-Intensity Sheeting Insert
- Fully Tested and NCHR 350 Approved
- Designed to Take Impacts and re-orient Towards Traffic

Impact Recovery Signs

And why the IRS System is the best on the market!

The heart of the system is a unique reactive spring with the strength to support not only a flexible post, but an information panel as well. This reactive unit gives upon impact and is designed to reorient the panel towards traffic. The introduction of the new "Anti-Twist Feature" assures the sign will return to its' original position after impact.



"Anti-Twist Feature"



T1 & T2 Barricades

Traffic control devices help to insure roadway safety by providing direction for orderly and predictable movement of all traffic. They also help in the protection of construction crews and motorists on streets and highways.

NCHRP 350 - **Crashworthy** - FHWA Accepted
WZ-06, WZ-47, WZ-85, WZ-165, & WZ180



Combocade Barricade
Steel legs
Plastic boards



Plasticade Barricade
One piece construction
Ballast Internally

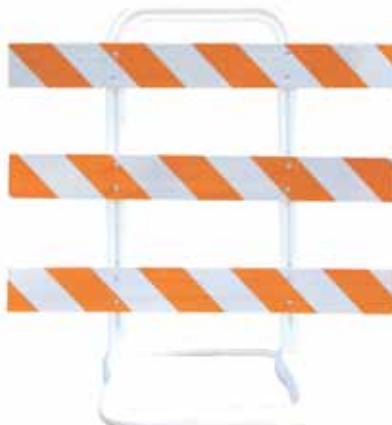


Econocade Barricade
One piece
Solid construction



Fibercade Barricade
Modular components

T3B™ Barricade



NCHRP 350
Crash worthy
FHWA Accepted
WZ39 & WZ63

SafetyRail™

With its common vertical plan, no part of SafetyRail protrudes into or interferes with the walkway.

With SafetyRail, users can create a multitude of angles, up to 90°, and still maintain a continuous guide rail.

SafetyRail is designed for use with the PSS Wave® barricade panel.

The Wave panel is manufactured with encapsulated ends, to prevent snagging of hands and walking aids.

The Wave panel, blow-molded with high density polyethylene (HDPE), with UV stabilizers, for increased durability, provides a smooth guide rail for use by hand.

The Wave is available in convenient sizes of 4', 6' and 8' lengths.

Retroreflective sheeting meets all state and federal specifications, and is available in Engineer, Hi-Intensity and Diamond grades.



SafetyRail™ Features

No hardware is required to assemble SafetyRail. Set-up and tear-down time is minimal.

Choose between internal or external ballast: fill the SafetyRail with sand, using the extra-wide sand-fill hole, or use traditional sand bags.

SafetyRail measures 38" high and 24" wide, by 3.25" deep, and weighs 7 lbs. SafetyRail is lightweight, portable, and easy to transport or store.

SafetyRail is blow-molded with high density polyethylene (HDPE), with UV stabilizers, for increased durability.

A-Frame Barricades

A-Frame is made from a durable, yet lightweight plastic that will not rot, rust, crack or peel. The double slotted frame will hold either one or two panels. Panels are 2"x8" and available in 4, 6, 8, 10 or 12 foot lengths.



All A-frames are sheeted on both sides.

NS-No Sheeting, EG-Engineer Grade, HI-High Intensity and DG-Diamond Grade reflective sheeting available.



O-Frame Barricades

Parade Style "A-Frame" Barricade

Innovative "O-Frame" Barricade Meets MUTCD & ADA Requirements

ADA-Compliant
Type II Barricades

Innovative O-Frame Leg

- Unique four board design
- Center slots have pinch points to lock in the boards
- Molded nubbins for stacking also stabilize barricade light
- Solid injection molded leg - stronger than blow molding
- Versatile - Accommodates plastic or wood panels
 - 1 x 8" plastic panels
 - 2 x 8" plastic panels
 - 2 x 8" nominal lumber
- Impact-resistant and UV-stable thermo-plastics for superior durability
- The only barricades with a 3-year pro-rated warranty!
- Engineered to conform to ADA, NCHRP 350 & MUTCD standards
- Panels have smooth surfaces to allow easy application of reflective tape
- Flexibility to use 1 x 8-inch or 2 x 8-inch barricade panels
- Panels available in 4, 6, 8, 10 and 12-foot standard lengths
- Rigid injection molded legs will not sag in the heat of the sun
- Barricade legs with molded-in holes for attachment of lights
- Barricade legs stack for easy transit & efficient storage
- Panels & legs available for purchase separately or together
- Choose from Engineer, High Intensity or Prismatic sheeting
- Panels can be factory-sheeted on one or both sides

ADA Type II



Type II Format
with Parade Panel



LED and Solar Barricade Lights

Consists of Type A/C, D Cell, 6-Volt standard and B-lights, Solar lights, 360 degree lights, Barge lights and contractor (sale) lights. You can tailor your light by using different housing colors and/or lens colors. All lights come packaged with bolts, wrenches and pins.



Safety Barricade System

Applications Include:

- Traffic Channeling
- Physical Security
- Crowd Control
- Flight Line
- Construction Zones
- Airport Construction
- Guard Units
- Public Works & Utilities
- Special Events
- Flood Control
- Police & Fire Departments

Size: 24" H x 28" L x 24" W / **Wall:** .25" (Avg.) **Model 4201-50**

Mass: 55 lb. (empty) / 790 lbs. (filled with water) (1227 lbs. filled with sand)



Size: 24" H x 96" L x 16" W / **Wall:** .25" (Avg.) **Model 4204-50**

Mass: 50 lb. (empty) / 785 lbs. (filled with water) (1227 lbs. filled with sand)



Size: 42" H x 72" L x 24" W

Economy Barrier

Wall Thickness: .25" (Avg.) **Model 4206-100**

Mass: 100 lb. (empty) / 1558 lbs. (filled with water) (2388 lbs. filled with sand)

Standard Barrier

Wall Thickness: .375" (Avg.) **Model 4206-130**

Mass: 130 lb. (empty) / 1558 lbs. (filled with water) (2418 lbs. filled with sand)



Heavy Duty Barrier

Wall Thickness: .50" (Avg.) **Model 4206-170**

Mass: 170 lb. (empty) / 1598 lbs. (filled with water) (2458 lbs. filled with sand)

Size: 42" H x 96" L x 24" W

Economy Barrier

Wall Thickness: .25" (Avg.) Model 4208-175

Mass: 175 lb. (empty) / 2029 lbs. (filled with water) (3145 lbs. filled with sand)



Standard Barrier

Wall Thickness: .375" (Avg.) Model 4206-200

Mass: 200 lb. (empty) / 2054 lbs. (filled with water) (3170 lbs. filled with sand)



Work Zone Safety



Stop/Slow Paddles

- Paddles are available in hand held or staff mounted versions.
- Lightweight paddles conform to the new design as described in the Manual on Uniform Traffic Control Devices

Spring Cone™

- Compact for easy storage
- Meets MUTCD requirements for 28" highway traffic cone
- Flexible Spring Cone™ spills wind for increased stability
- Cone is made of a durable, bright orange, flexible mesh material

Traffic Cones

- All vinyl construction assures flexible, yet rugged durability in all types of weather.
- High visibility protection is provided by the cone's brilliant fluorescent color.
- Ultraviolet stabilized to provide maximum resistance to fading.
- 18" and 28" cones available with 3M High Intensity collars for increased visibility.



Blinker signs

- Installs easily onto any new or existing sign post
- Solar Powered
- Any MUTCD sign can be made into a Blinkersign



Cone Bar

Technical Specifications	
Length	3.0 ft' adjust to 6.0 ft' 6.0 ft' adjust to 10.0 ft'
Material	ABS
Weights	1.35 lbs
Cone-Bar ring diameter	0.28'



The Director™ Barrel

- Meets MUTCD specifications - 18" minimum diameter
- Two piece break-away construction
- Able to display one or two type "A" or "C" lights
- Available with or without reflective sheeting
- Choice of recycled rubber bases of 25 lb, 40 lb and tire rings
- Meets NCHRP 350 requirement
- Impact resistant, low-or high-density polyethylene
- Height 42.5" overall
- Width 18" top - 23.5" base



Let us be your source for high quality traffic signs, parking signs, road signs, street signs, posts, hardware and more.

Emergency Flare Warning Lights



224 Flare-Lite



Light weight 212



212 w/ Handle



212 Flare-Lite

The 212 Flare-Lite is lightweight with a carrying handle for ease of use. The legs of its barricade type structure fold for easy storage and adjust for all types of terrain. The 224 Flare-Lite can be held like a flashlight or dropped into a traffic safety cone.

Navigator



42" Navigator



28" Navigator

Worker Convenient - Loop handle allows workers to carry 3, 4 or even 5 at one time



Recommended Uses:

- Lane closures
- Crowd control
- Parking lots
- Vehicle traffic control
- Airports

Other Navigator Features:

- Meets all applicable MUTCD specifications.
- 42-inch Navigator available with up to five bands of 6-inch sheeting
- 28-inch Navigator available with up to three bands of 6-inch sheeting
- U.V. stabilized for longer life



10 & 16 lb Bases
Feature Hexagon Shape



30 lb base features
rectangular shape



40 lb base features semi-circular shape and may also be used as internal ballast for lifeguard II channelizer drum

Molded Rubber Bases:

- Navigator utilizes PSS or other industry standard solid rubber ballasts
- PSS bases available in 10, 16, 30 or 40 lb weights
- Manufactured from 100% Recycled Rubber



The PowerFlare PF-200 Series of Electronic LED Safety Lights

LED Colors:

- Red • Amber (shown)
- White (shown) • Green (shown)
- Blue (shown)• Infrared



	PF-200	PF-200R (Rechargeable)	
Size	4.25" (12cm) diameter x 1.25" (3.5cm) tall		
Weight	Less than 7 oz. (200 g) with battery		
Battery	1 CR-123 Lithium battery	1 RCR-123 3.6V rechargeable Li-Ion battery	
Shelf-Life	10 years	Holds useful charge for - 60 days out of charger; but meant to be left in charger when not in use	
Buoyancy	Positive (floats); can attach weight		
Power	Non-rechargeable CR-123 Lithium Battery	<u>Charger PF-CHGR-206:</u> 12-30VDC, 1A (max.); 0.7A trickle (A/C adapter avail.) @ 12VDC nominal	
Op. & Storage Temps	Fahrenheit: -40/-40 to 212/248 deg F Celsius: -40/-40 to 100/110 deg C		
Emission Source	360° LED array: solid-state; no filament		
LED Light Colors (per unit)	Red, amber, blue, green, white, infrared (IR). Custom colors available.		
Light Output Wavelength (nm) Color & Power (PEP)	Red: ----- 630 @ 128,000 mcd Amber: ----- 595 @ 80,000 mcd Blue: ----- 464 @ 38,400 mcd Green: ----- 525 @ 80,000 mcd White: ----- white spectrum @ 96,000 mcd Infrared: ----- 890 @ 236 mW		
Daylight & Night Visibility Ranges	Night: visible to 900M (~3,000 ft) on road or water > 10 miles (16 km) from air Day: visible to 300M (~1,000 ft)		
Housing Color & Material	Yellow, orange, or olive drab (OD) polymer		
Water Depth Rating	80' submersion		
HAZMAT	Hermetically sealed; intrinsically safe		
Chemical	Contains no hazardous chemicals Withstands exposure to petroleum based fuels <i>Avoid acetones and benzopyrenes</i>		
Switch Type	Push button		
Flash Patterns (User-Selectable)	Flash Pattern	PF-200	PF-200R
Max. Run Times, Continuous	Solid-On High	8 hours	2 hours
<i>Note: Times listed are for red, amber, and IR LED's. Blue Green & White color LED versions will run from 50-80% of listed times depending on pattern used.</i>	Rotate	16 hours	3 hours
	Alternate	10 hours	2 hours
	Quad-Blink	50 hours	10 hours
	Double Blink	35 hours	7 hours
	Fast-Blink	20 hours	8 hours
	Slow-Blink	150 hours	100 hours
	Solid-on Low	100 hours	36 hours
	"S-O-S"	24 hours	4 hours
	Flashlight	25 hours	3 hours

Approvals & Certifications:

- Complies with U.S. DOT (FMCSA) 49 CFR §§ 392.25 and 393.95 (g).*
- MUTCD Type A (flashing) and Type C (solid on)
- Designed to meet MIL-SPEC/MIL-STD 810 for shock, vibration, and water-resistance.



Standard Features

- 360° high visibility led beacons - flashing and steady-on
- Portable, safe, easy to use, cost effective (2 cents/hour)
- Bright clear colors
- Designed for use in Class 1, Division 2/Zone 2 hazardous areas
- Up to 40 hour battery life with low battery indicator
- Tough and dependable with one year limited warranty
- Can be submerged up to 100 ft. of water

Specifications

- Beam colors available • red, amber, blue, green and white
- Beam brightness • 15,000 - 25,000 millicandela
- Max beam conspicuity • between horizontal and 10° above horizontal
- Flash rate • 120 flashes per minute
- Batteries • 2 alkaline D cells
- Battery life • up to 40 hours at full brightness
- Height • 8.0 inches (including base)
- Weight • 1.00lb. (including batteries)



Wireless Remote Control Portable Search Light



Durable, Versatile, Powerful...Guaranteed!

Searchlights Built to Last.

Cr5 Pentabeam™ Technology

Remote Controlled Operation

370° Rotation x 120° Tilt

400,000 Candle Power, 5.5 Amps

U.V. & Salt Water Resistant

3 Year Warranty



Compact and portable 360-degree LED light with carrying strap and magnetic base included. Contains 24 ultra-bright LEDs. Includes optional use photocell. Runs on 2 "D" batteries. Optional handle (Part Number PS-HDL) available separately. Handle fits into most standard traffic cones. 300-400 hours per set of "D" batteries (Not Included).



MMBLEDLP Mini Bars

Low Profile LED Micro-Mini Bar. Contains 24 high quality output LEDs, 6 user selectable patterns. Optional 24V or magnet mount version available. Colored domes available.



New two rocker switch cig plug with on/off rocker & pattern changing rocker



R2 Permanent mount pattern changing button



MMBSLEDL-C/A

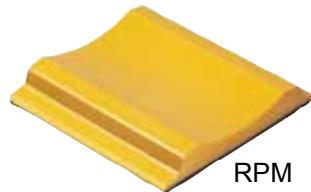
Economy Low-Profile LED Mini-Bar. 12/24V, LED Mini bar. Unit cycles through pre-programmed flash patterns. Magnet mount version includes 15' straight cored and plug with on/off switch.



Pavement Markers

RPMs & Halftracks

- Effective and convenient long-term temporary road marking products
- Designed to be long-lasting enough for use in both low volume and interstate highways
- Provide clear guidance to motorists both night and day
- Simple to install and remove



Temporary Overlay Markers (TOMs)

- Primarily for short-term temporary lane line markings in asphalt paving projects and other construction work zones
- Placed after final rolling of the new asphalt
- Engineered for easy application and removal to reduce the amount of time workers are in the roadway
- Unique adhesive system keeps the TOM securely in place but when it is time for removal the TOM comes up with a simple tug



TRPM



TOM

TOM options:

- Standard colors are yellow and white but are available in additional colors by special order
- TOMs are available with reflective sheeting on one or both sides

Flexible Chip Seal Markers (TRPMs)

TRPMs, just TOMs, provide positive guidance to drivers both night and day. The TRPM utilizes a cube-corner micro-prismatic reflector. These tough reflectors are extremely bright and resist cracking and peeling.

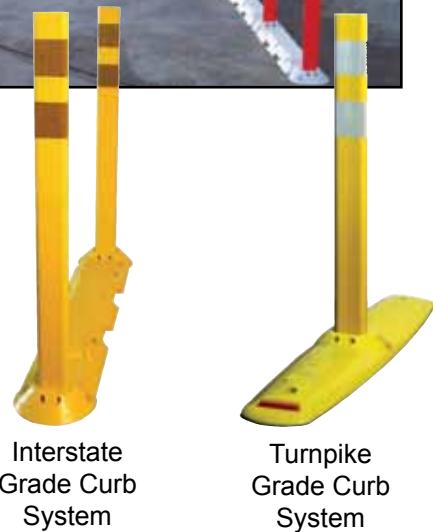
Options:

- Standard in yellow and white but other colors are available by special order
- Standard TRPMs come with at least one clear plastic cover or cap which is designed to protect the marker and reflective sheeting from sprayed asphalt or slurry products
- Multiple protective covers are available if the requirements of your sealing project warrant
- Special high heat TRPMs formulated to withstand extreme temperatures are available
- TRPMs are available with reflective sheeting on one or both sides



Curb Systems

Research has shown that fluorescent colors grab the eye's attention quickly. In low light conditions or on dark, gray winter days when visibility is limited, fluorescent posts stand out boldly and help to more effectively guide motorists.



Interstate
Grade Curb
System

Turnpike
Grade Curb
System

- Proven safety and performance - FHWA approved, NCHRP 350 tested and accepted at 70mph/112kph
- Designed for high speed applications

Surface Mount Posts

- Posts feature the unique clover-leaf design that allows the tubular post to rebound time after time when simple round posts fail
- Conforms to MUTCD & NCHRP 350 standards with proven durability on NTPEP test deck

Base

- Standard base for general purpose applications
- Flush mount channelizer posts



Flexible Roadside Posts



- Guide posts that offer a combination of strength, flexibility and durability that stand up in the harshest weather conditions
- They will not discolor when exposed to UV rays and will not rust, rot or splinter
- NTPEP Tested, NCHRP 350 Approved



Round Channelizer Posts

- Provides 360 degrees of highly reflective delineation
- Impact resistant from all directions
- MUTCD and NCHRP 350 compliant



EZ See Hydrant Marker

Item #	Description
41610	1/4" x 4' Orange Hydrant Marker
42610	1/4" x 4' White Hydrant Marker
51610	1/4" x 5' Orange Hydrant Marker
52610	1/4" x 5' White Hydrant Marker
72610	3/8" x 5' White Hydrant Marker



Driveway Marker

Item #	Description
55948	1/4" x 4' Driveway Marker
55950	5/16" x 4' Driveway Marker
55952	5/16" x 5' Driveway Marker
55962	5/16" x 6' Driveway Marker



Bollard Post Guard

Post Guard is a protective sleeve that easily fits over posts. It saves time and costs by eliminating constant scraping and repainting. The plastic part contains ultraviolet and anti-static additives that withstand extreme temperatures. Custom colors, symbols and company logos are available.

Post Guard sizes:

4.5" Dia. x 52"
4.5" Dia. x 64"
7" Dia. x 60"
7" Dia. x 72"
8-7/8" Dia. x 72"
10-7/8" Dia. x 60"

Square:
4.5" x 4.5" x 55"
6.5" x 6.5" x 55"

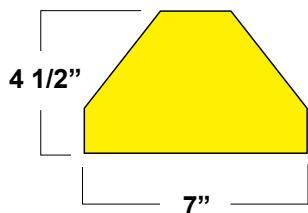
**Easily trimmed
on-site to fit your
applications**



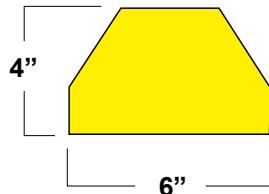
Solid Plastic Parking Block Specifications



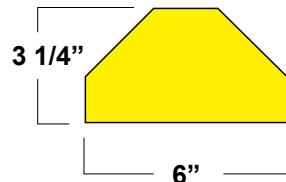
LENGTH	NOTES	WEIGHTS	COLORS
4'	The 4' parking block comes in DELUXE and STANDARD	Deluxe: 24 lbs. Standard: 20 lbs.	Yellow
6'	The 6' parking block comes in DELUXE, STANDARD and COMPACT	Deluxe: 36 lbs. Standard: 30 lbs. Compact: 25 lbs.	White
8'	The 8' truck block comes in one size only: 7" x 10" x 96"	Truck Block: 100 lbs.	Gray
20"	The wheel chock comes in one size only: 4" x 6" x 20"	Wheel Chock: 10 lbs.	Black
			Blue



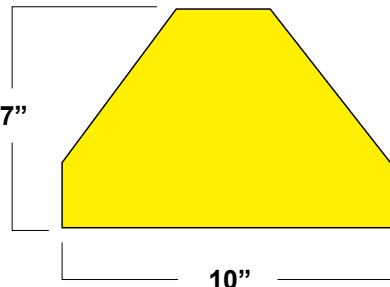
DELUXE



STANDARD



COMPACT



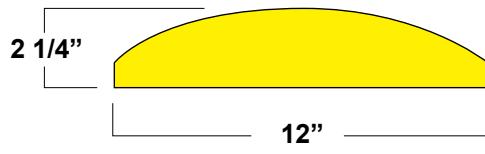
TRUCK BLOCK

Solid Plastic Speed Bump Specifications

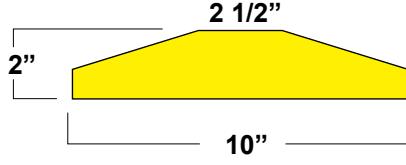


LENGTH	NOTES	WEIGHTS	COLORS
4'	The 4' speed bump comes in DELUXE and STANDARD	Deluxe: 28 lbs. Standard: 22 lbs.	Yellow
6'	The 6' speed bump comes in DELUXE and STANDARD	Deluxe: 41 lbs. Standard: 25 lbs.	
9'	The 9' speed bump comes in STANDARD only	Standard: 50 lbs.	

- Includes installation instructions and hardware
- All dimensions are nominal - allow for up to 3-6% mold shrinkage
- Lifetime warranty



DELUXE



STANDARD

RoadQuake™ Temporary Portable Rumble Strip

Ideal for Short-Term Work Zones

Where daily installation and removal of the work zone is required:

- Pilot car or flagging operations
- Lane closures
- Traffic safety check-points
- Routine maintenance projects
- Paving operations

Recommended for 2 or 4 lane highways with posted speed limits of 60 mph or less.



RoadQuake is:

Temporary

- No nails or glue are needed for installation and use.
- Quick installation and removal time. No clean-up!

Portable

- No installation equipment needed.
- A crew of 2 can install an array in minutes.

Durable

- 3-5 year life under normal conditions.
- Suitable for use in rain and colder temperatures.

RoadQuake Features:

- At 11 feet long, RoadQuake traverses an entire lane.
- At 12" wide and 13/16" thick, RoadQuake generates a significant audible and vibratory alert.
- In closed-track tests of sound and vibration, RoadQuake tested as high as milled strips, and higher than glue-down strips.
- The beveled edge, which faces traffic, makes RoadQuake motorcycle-friendly.
- Ergonomic handles make installation and storage easy.
- Non-slip textured surface keeps RoadQuake in place.



GOOD SEAL

Good Seal Products is a Division of Sherwin Industries, Inc

Good Seal Products is a division of Sherwin Industries, Inc. and has been manufacturing coal tar sealers for contractors and homeowners since 1981. In 2002 Good Seal Products introduced and started manufacturing asphalt emulsion sealers.

STAR SEAL brand sealers, produced by Good Seal Products, is a contractor grade sealer that meets or exceeds ASTM D5727-00 specification. All coal tar and asphalt emulsion sealers are manufactured in Milwaukee, WI and shipped to our warehouse locations for convenient customer pick up. Good Seal will also ship bulk tanker loads directly to our contractors or governmental agency in concentrate or ready-to-use form.



SERVICE DEPARTMENT

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SPECIALTY TECHNOLOGY AND RESEARCH

STAR-Seal is a heavy-duty coal tar sealer that is specifically designed to protect and beautify asphalt pavement. Composed of high temperature refined coal tar pitch, selected mineral fillers and surfactants, **STAR-SEAL** forms a tough durable and flexible coating that protects asphalt pavements from the damaging elements of weather, water, salts, gas and other petro-chemicals. **STAR-SEAL** is manufactured using a carefully monitored batch process to ensure that you receive the most consistent material possible.

- Rich Black Color
- Extends Pavement Life
- Increases Curb Appeal
- Stops Oxidation
- Cuts Maintenance Cost
- Resists Chemicals
- Prevents Water Penetration



STAR-Seal Application:

STAR-SEAL is supplied in concentrate and must be mixed with:

- Water - for proper application consistency
- Silica Sand or Aggregate (50-70 mesh) - for traction and uniform textured appearance.

Additives such as Macro-Flex, Macro-Fast and/or Max-Dri may be added to maximize performance



- G1001** STAR-Seal Concentrated Sealer, Federal Spec. 5 gallon pail
G1002 STAR-Seal Concentrated Sealer, Federal Spec. 55 gallon drum
***SEALER** STAR-Seal Concentrated Sealer, Federal Spec. Bulk pickup or 4200 gallon truck load deliveries
G70/30 STAR-Seal® 70/30 (Pro Blend) of Coal Tar sealer and Asphalt Emulsion

Good Seal Products offers our customers the use of bulk agitated tanks for those larger jobs.

Available in 300 and 500 capacities when available.

- *G1030** STAR-Seal sealer and filler
***G1004** STAR-Seal ready-to-use sealer



The SUPREME Advantage

STAR-Seal Supreme is a premium grade pavement sealer for discriminating jobs that demand outstanding performance and appearance year after year. It is the ultimate in asphalt pavement protection having an extraordinary degree of toughness, flexibility and water repellency.

STAR-Seal Supreme utilizes a proprietary technology to achieve toughness and flexibility. Toughness is important as it will reduce wear from traffic and last longer on the pavement surface. Flexibility is important so that the coating can flex with the changes in the asphalt, reducing cracking. Specialty polymers, rubber, and chemicals are blended with the hot refined tar during the manufacturing process. The hot blending allows the optimum fusion of these ingredients with the refined tar, thus the full development of properties.

STAR-SEAL SUPREME® *G1020

- Outstanding toughness & durability
- Flexibility at all temperatures
- Fast drying to rich, black color
- Excellent resistance to fuel, gasoline, oil and chemicals
- Fills minor voids and provides uniform texture
- Stops pavement degradation
- Preserves asphalt oils in the pavement
- Easy to clean and maintain
- Highly cost effective



STAR-Seal Supreme achieves water resistance by creating a clay chemistry that repels water. Water is the most damaging element to asphalt surfaces and coatings.

STAR-Seal Supreme resists re-emulsification caused by water attack on the clay system so prevalent in competitive coatings. The improved water repellency enhances the longevity of the coating and reduces the chance of tracking.

STAR Micro-Pave

STAR MICRO-PAVE Application:

STAR MICRO-PAVE is a concentrated product, which must be thoroughly mixed with:

- Water at 15-20% by volume.
- mixed with 50-70 mesh silica sand or aggregate at a rate of 4-6 lb. per gallon.

All asphalt pavements shall be sealed with two (2) coats of the above mix per detailed specifications for STAR MICRO-PAVE.



STAR MICRO-PAVE *G1050

- Fills and smooths pavement voids
- Seals out water and sunlight
- Seals in asphalt oils
- Restores rich, black color
- Provides a tough, resilient wearing surface
- Non-tracking
- Non-toxic to workers and environment
- Easy to clean, stripe and maintain
- Cost effective

Latex Additives

Macro-Flex - R+V

- Longer lasting, increased toughness & flexibility
- Increases viscosity to suspend higher sand loads
- Improved gasoline, oil and chemical resistance
- Faster drying time
- Meets FAA specifications
- 1:1 water dilution



Part #	Description
G1083R	1 Gallon
G1083	5 Gallon



Macro-Fast

Rapid Drying Additive For Sealcoatings

- 60% faster curing time
- Will NOT change sealer viscosity
- Reduces power steering marks and tracking
- Deeper jet black color
- More cost effective than competitive additives
- Improved gasoline, oil and chemical resistance

Part #	Description
G1084	5 Gallon



STAR ADVANTAGE 4

4 in 1 ADDITIVE

For All Sealcoatings, Based on Asphalt and Coal Tar

- **Fast Drying:** Quicker off/on times for traffic
- **Performance Boosting:** Higher scuff and chemical resistance
- **Blacker, Darker, Dry Sealer Color:** Sealcoatings dry darker in sun or shade
- **Thickening for Sand Suspension:** Effectively suspends large amounts of sand or aggregates to increase traction and for overall appearance

Part #	Description
G1086	5 Gallon



Cold Crack Sealants

Sta-Flex

- Cold applied, no expensive application equipment required
- Stays flexible, rubberized using high-molecular weight polymers
- Easy to apply and cleans up with water
- Compatible with both coal tar and asphalt emulsion sealers

Coverage: 100 linear feet @ (3/8" wide by 1/2" deep)

Packaging: 1 gallon jug, 5 gallon bucket

Part #	Description
G1092	1 Gallon
G1093	5 Gallon



Sta-Flex Trowel Grad

- Tough, flexible and durable, it is rubberized with polymers and reinforced with specialty chemicals and minerals
- Compatible with both coal tar and asphalt emulsion sealers
- Ready to use, and cleans up with water

Coverage: 75-80 linear feet @ (1/2" wide by 1/2" deep)

Packaging: 5 gallon bucket
55 gallon drum

Part #	Description
G1094	1 Gallon
G1095	5 Gallon



SURFIX Premium Trowel Grade

- Heavy bodied mastic patching & repair product designed for excessively cracked areas
- Outstanding flexibility and toughness resulting into superior performance
- Compatible with both coal tar and asphalt emulsion sealers.
- Cleans up with water

Coverage: Varies greatly depending on application.
(approx. 1 gallon per 25 sq ft)

Packaging: 5 gallon bucket

Part #	Description
G1040	5 Gallon



Primers & Patch

One-Step

- Apply at full strength to prime and seal in "one step"
- Dilute 1:1 with water to use as a primer coat
- Dries to a satin black finish
- Dries fast, in about 20-30 minutes
- Bonds to surfaces contaminated by oil, grease and fuel
- Can also be used to black out traffic markings



Part #	Description
G1010	5 Gallon Pail

S.O.S.

- Dilute 2:1 with water for proper application
- Transparent coating when dry
- Dries fast, in about 20-30 minutes
- Will stop oil, grease and fuel from bleeding through the sealer
- Acrylic latex based: highly efficient



Part #	Description
G1087B	1 Gallon
G1087	5 Gallon

Silica Sand

Part #	Description
G1116	100# bags Medium #4020, 35 bags per pallet



Black Boiler Slag

Part #	Description
G1117A	#3060 Finest 100# bags,
G1117	#2040 Fine 40 bags per
G1117B	#1240 Coarse pallet



STAR Green

NO COAL TAR, NO ASPHALT, NO PAHs.

BASED ON HIGH PERFORMANCE POLYMERS AND SPECIALTY CHEMICALS.

Asphalt Pavement Sealer

- Fast Drying
- Resistant to Oil, Salts, Gas and Petrochemicals
- Durable, Tough & Flexible

Part #	Description
G1061	5 Gallon Pail
G1061D	55 Gallon Drums
G1061T	275 Gallon Totes



STAR GREEN is an acrylic polymers-based sealcoating that belongs to a new generation of sealcoatings that are totally free of refined coal or asphalt binders. **STAR GREEN** is totally free of PAHs (polycyclic hydrocarbons). **STAR GREEN** cures to a beautiful black color that does not fade or weather with time. In addition to acrylic polymers, **STAR GREEN** is made with a select group of pigments, fillers and surface active compounds. It is easy to apply and store. Its durability will match to that of any premium grade sealer.

- Non-hazardous in application and storage.
- Longevity, toughness and flexibility
- Fast drying
- Uniform black color that will not fade with weathering
- Built-in water repelling properties of cured sealcoatings
- Resistant to oil, gas, salt and petro-chemicals

STAR GREEN is recommended for all asphalt pavements; home driveways, restaurants, commercial parking lots, gas stations, schools, play areas, office complexes, etc. Gas Stations and many more.

COVERAGE RATE

0.08-0.10 gallon/sq. yard (90-110 sq. ft/gallon)
No. of coats - Only one

MIX DESIGN

Important - All mix designs must include sand @ 3-3.5 lbs. gallon of **STAR GREEN**.

STAR GREEN	100 Gals
Water	5 Gals
Sand 50-70 AFS	300 lbs.

Acrylic Resurfacer

1.0 MATERIAL DESCRIPTION

Acrylic Resurfacer is a concentrated 100% acrylic latex binder designed for field mixing with silica sand and is to be applied to recreational surfaces constructed of hot-mix asphalt or Portland cement concrete.

2.0 INTENDED USE

Acrylic Resurfacer is intended for preparing new asphalt or concrete surfaces as well as existing acrylic surfaces for color coating.

3.0 MIXING INSTRUCTIONS

The following mix has been found to be satisfactory for average surface conditions:

Acrylic Resurfacer	55 gallons	30 gallons
Silica Sand (60-80 Mesh)	600-900 lb.	325-400 lb.
Clean potable water	20-40 gallons	11-22 gallons

4.0 PHYSICAL PROPERTIES

Color:	Black
Coverage Rate (undiluted)	0.06 gallons/sq. yd.
Weight per gallon:	8.8 lbs.
Curing conditions:	70°F & 50% relative humidity
Estimated cure time:	2 hours
Minimum ambient, surface & product installation temperature:	60° and rising

Note: Low temperatures or high humidity will increase drying time drastically. Maximum surface temperature = 140° F

DecoColor®

The System

1. Filler Course: Acrylic Resurfacer blended with approved silica sand.

2. Texture Course: DecoColor® mixed with silica sand or blended with DecoBase I provides a uniform surface texture and determines the speed of play and traction on the court.

3. Finish Course: DecoColor creates a vibrant, durable finish highly resistant to weather and ultraviolet degradation.

4. Lines: A heavy bodied acrylic latex white striping paint, comes both in textured and untextured.

(The above installation is a brief overview of the application of this product, be sure to follow the proper product installation specification sheet for comprehensive installation instructions. Color and scale not representative of actual product.)

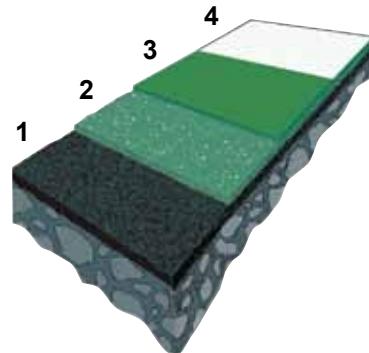
DecoColor Court Maintenance

How to maintain the high quality of your DecoColor surface:

Keep court free of foreign matter. Things such as dirt and leaves can lead to premature deterioration of the surface.

Beware of water. After cleaning your court, take care to dry the surface thoroughly before playing. Also, do not over-irrigate around court edges.

Clean your court frequently. Clean your court monthly. If mold or mildew develops in shady areas, clean with a diluted household bleach mixture (two party water, one part bleach). Be sure to rinse area thoroughly after cleaning.



Deco Color's

G1210	Ready to Use Color Coating Blue	5 gal. pail
G1211	Ready to Use Color Coating Red	5 gal. pail
G1212	Ready to Use Color Coating Green	5 gal. pail
G1213	Ready to Use Color Coating Tan	5 gal. pail
G1236	Custom Coating Concentrated Forest Green	55 gal drum
G1233	Custom Coating Concentrated Summer Red	55 gal. drum
G1234	Custom Coating Concentrated Spring Green	55 gal. drum
G1250	Acrylic Base for Recreational Surfaces	55 gal. drum
G1250A	Acrylic Base for Recreational Surfaces	5 gal. pail

Use the right equipment. A soft nylon or hair-type push broom can be used for sweeping and scrubbing. Beware that scrubbing too hard can damage surface. Connect a water broom to a standard garden hose (70 p.s.i. max.) for hard to clean areas.

Armour Guard

**Clear, 100% Acrylic Latex, Fast Penetrating Sealer
For Protecting Concrete, Brick, Masonry & Wood Substrates**



SSCA55	55 gallon
SSCA5	5 gallon
SSCA275	275 gallon

- Shields and protects against the irreversible effects of salt and chemical damage to concrete
- Improves flexural and tensile strength of the concrete
- Easy to apply, fluid, water-like consistency
- Water based product is safe to handle and easy to store
- Non-flammable

All types of concrete, brick, masonry and exterior wood surfaces.

- Concrete driveways, sidewalks, garage floors
- Basement foundation walls and floors
- Specially suited for protecting and beautifying paving stones, terrazzo tiles, rocks, etc.

Coverage rate is approx. 200 sq. ft. per gallon, which may vary depending upon the surface porosity of the substrate.

Approx. 30 minutes which may vary according to ambient temperature and drying conditions.

STAR ARMOUR-GUARD is a specialty clear penetrating sealer that was developed especially to protect common building materials like, concrete, brick, masonry, etc. Being based on 100% Acrylic polymers and specialty chemicals, STAR ARMOUR-GUARD is highly stable and resistant to water, salts, ultraviolet and weathering.

It quickly penetrates the substrates and forms a rubber network in the interstices that stops water, chloride de-icing chemicals, salt, and other damaging elements from entering and destroying concrete.

Star Macro Deck



SSMD5	5 gallon
SSMD55	55 gallon

- 100% acrylic polymer concrete saturant.
- Superior grade DOT tested formulation.
- Penetrates concrete, won't wear away like surface coatings.
- Environmentally safe, non-flammable, water based product.
- Easy to apply, does not degrade when stored.
- Economical solution, lasts longer, does not wash away or break down from U.V. like traditional linseed oils does.
- No specialized training or equipment required.

STAR Inc. is the first to provide innovative solutions for the nations' deteriorating bridges.

STAR Macro-Deck is a specialty penetrant and saturant system, specifically designed to protect concrete structures, bridge decks, columns, and control barriers. This advanced technology is based on specialty polymers and formulated concrete saturants.

STAR Macro-Deck penetrates in to the concrete profile and quickly forms a rubber matrix inside the physical structure. STAR Macro-Deck will not allow water, deicing salts, and other damaging elements to penetrate the concrete structure.

STAR Macro-Deck maintains both the flexural and tensile strength of concrete and can be applied on new and existing concrete structures.

Crack Filler

LASTEK Rubberized Caulk Grade Crack Sealer for Asphalt or Concrete

G1054	Lastek 34 Black 0.1 gal. Capacity caulking tube	Case of 12 tubes Tube
G1055	Lastek 35 Gray 0.1 gal. Capacity caulking tube	Case of 12 tubes Tube



Chem-Calk®

Capable of dynamic joint movement totaling 50% of original joint geometry ($\pm 35\%$), designed for sealing expansion joints, control and perimeter joints in parking decks, pavements, plazas, malls, patios, driveways, factory and institutional floors or any other areas subject to foot traffic and light vehicle traffic.

CHEM-CALK 955-SL

One-component self-leveling polyurethane sealant. Exceeds ASTM C-920, Type S, Grade P, Class 35, Traffic Grade. SWRI validated.

28 oz. Cartridge: 12/cs	Limestone Light Gray Black	A71010 A73230 A72630	A
5 gallon Pail	Limestone Light Gray Black	A71005 A73230 A72605	MTO



Rock Salt



50 lb. Bag Ice Melt
Pallet (49 Bags)
Truck load (18 Pallets)



50 lb. Bag Calcium Chloride
Pallet (56 Bags)
Truckload (18 Pallets)

Cold Patch

G1301	G1300	S11 S10 S10B	Cold patch 5 gallon pails Cold patch Bulk Cold patch 50 lb bags
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Miscellaneous Sealing Tools

PART #	DESCRIPTION
G1130	18" Sealer Brush with Handle
G1131	18" Sealer Brush Refill
G1134	24" Heavy Duty Sealer Brush with Handle
G1135	24" Heavy Duty Sealer Brush Refill
G1136	36" Heavy Duty Sealer Brush with Handle
G1137	36" Heavy Duty Sealer Brush Refill
G1137A	48" Heavy Duty Sealer Brush
G1137B	48" Heavy Duty Sealer Brush Refill
G1138	2" Throw-Away Sealer Brush/Squeegee
G1138A	48" Throw-Away Sealer Brush Handle
G1141	18" Throw-Away Sealer Brush /Squeegee
G1145A	Aluminum Holder for Brushes
G1145B	3-1/4" Aluminum Brush Bracket (smaller)
G1190	5" Wide Brushes for Sealing Machine
G1176	3" Scraper (handle sold separately)
G1180	Rubber Sealing Gloves
G1141A	Sealer Broom with Handle
G1141B	24" Sealer Broom Head
G1141C	36" Sealer Broom Head
G1158	Bracket for Broom Handle
G1142	30" Heavy Duty Squeegee with Handle
G1142A	30" Squeegee Refill Punched
G1143	36" Heavy Duty Squeegee with Handle
G1143A	36" Heavy Duty Squeegee Refill Punched
G1144	60" Heavy Duty Squeegee with Steel Frame
G1144A	5" Squeegee Refill Punched
G1145	Aluminum Squeegee Holder
G1148	15" Squeegee with Handle
G1148A	15" Squeegee Refill Punched
G1160A	8' Wooden Handle
G1160	6' Wooden Handle
G1170	Drum Mixer for 1/2" Drill
G1171	5 Gallon Pail Mixer for 1/2" Drill
G1260	5 Gallon Plastic Pail with Cover
G1263	5 Gallon Plastic Pail Opener For Easy Lid Removal
G1262	55 Gallon Steel Drum Open Head with Cover
G1163	3" Putty Scraper
G1164	Rolatape Small Style
G1165	Rolatape Large Style
G1209	Duct Tape, Large Roll
G1175	36" Wooden Stakes, 1 Dozen
G1140	Vandal Mark Remover, 20 oz.
G1140A	Big Orange Industrial Spray, 18.5 oz.
G1206	Fuel Oil Brush



Mobile Sprayer Sealer Tank Accessories

- G1280** 3" Heavy Duty Rubber Discharge Hose
G1281 2" Plastic Discharge Hose
G1282 2" Heavy Duty Rubber Discharge Hose
G1283 5' Aluminum Sealer Wand with Valve Tip Included
G1283A 5' Aluminum Wand, no valve tip included
G4450 Exhaust Muffler with Filter for Spray Unit
G1284 3/4" High Pressure Hose 300 psi, no fittings
G1284A Hose Fitting for High Pressure Hose, both ends (2)
G1284B 1/2" High Pressure Hose 300 psi, no fittings
G1284C 3/8" High Pressure Hose 300 psi, no fittings
G1286 2" Ball Valve, 6' Plastic Hose (2"), 1 set of quick coupler and 2" short nipple
G1287 6' Plastic Hose (2") 1" quick coupler on one end and 2" short nipple
G1161 Steel Spray Tip 80/40
G1161A Steel Spray Tip 80/50
G1161B Steel Spray Tip 80/60
G1161C Steel Spray Tip 80/70
G1161D Steel Spray Tip 80/100
G1167 2" heavy Duty Brass Ball Valve
G1167A 3/4" Brass Ball Valve
G1167B 1/2" Brass Ball Valve
G1167C Spare Handles for Valves
G1172 Spray Wand Reducing Bushing, 3/4" pipe to 1/4"
G1172A Spray Wand Reducing Bushing, 3/4" pipe to 3/8"
G1172B Spray Wand Reducing Bushing, 3/4" pipe to 1/2"
G1173 2" Quick Coupler - aluminum, female and female ends
G1173A 2" Quick Coupler - aluminum, male end with female thread
G1173B 2" Quick Coupler Casing Nipple



Safety Products



Safety Glasses:
Fashionable and safe all at the same time! A must have for cleaning crews



Leather Palm Work Gloves:
High quality leather work gloves to keep your hands clean.



Cation and Banner Tape:
Cation tape comes in 1000' rolls.
Banner tape in 300' rolls



Disposable Coveralls & Pants:
The inexpensive way to keep your clothing clean. Sturdy enough to get several uses before replacing.

Little Wonder® High Output Blowers



Optimax

SHO
Suburban High Output



Optimax Blowers

All of the features, dependability and durability of regular series HO series blowers, but with **23% more blowing power** than HO models of the same horsepower.



Swivel Wheel Kit p/n 9050-00-01

Easy to install.
Gives operator 360° turning control. Can also be locked in a straight position.

SHO "Suburban High-Output" Series

- 5-Year limited commercial, rental, or consumer warranty
- 3-Year Honda engine warranty
- Industry leading, patented designed blower
- Adjustable air deflector
- Lighter weight
- 12" rear wheels for improved maneuverability

HIGH OUTPUT BLOWERS	
Item Number	Description
9502-00-01	SHO 4.6NP* Honda GC160
LB601-00-01	SHO 6HP Subaru EX
LB901-00-01	Optimax 9HP Subaru EX
LB900-00-01	Optimax 8NP* Honda GX270
9131-00-01	HO 11NP* Honda GX390
LB1401-00-01	Optimax 14HP Subaru EX
Blower Accessories	
9050-00-01	Swivel Wheel Kit



High Performance Vacuum

**Push or Self-Propelled!
Highest Suction, Best Reduction Ratio and Lowest Noise!**

Picks up and reduces, bottles, cans, leaves (wet or dry), stones, etc. The user-friendly design produces minimal noise and dust with exceptional maneuverability, exceeding sales and performance expectations with dealers, rental companies, and ground maintenance professionals everywhere!

Accessories

- Hose Kit - p/n 600020
- Liner Kit - p/n 600025
- Nozzle Guard Kit - p/n 600035
- Felt Liner for Debris Bag - p/n 600050

Little Wonder HPV Standard Features

- Powerful 6 or 6.5hp Briggs Intek engine
- Cyclonic separator and exclusive bag design ensure easy unloading
- Unique dust direction system - reduces clouding and redirects dust particles to ground level
- Replaceable 1/4" polyurethane housing liner (model 5611-00-01)
- Advanced impeller and housing design
- Five blade, reverse inclined fan
- 8-bushel (or 90 lbs.) debris bag capacity
- Precision balance (whether the bag is full or empty)
- Pneumatic wheels (12" rear, 10" front)
- Automatic floating nozzle (nozzle heights .75" - 3")
- 1-Year commercial/consumer warranty
- 2-Year warranty on 5611 HPV and all truckloaders retailed and registered after March 1, 2008

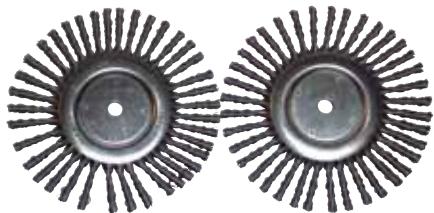


HPV-HIGH PERFORMANCE VACUUM	
Item Number	Description
5611-00-01	Walk-behind, 6HP Briggs, w/liner
5621-00-01**	Self-propelled hydro, 6.5HP Briggs
**Limited Quantity	
HPV Accessories	
600020	Hose Kit
600025	Replacement Liner
600035	Nozzle guards
600050	Felt Liner kit
600040	Swivel wheel kit for 5600/5601/5610/5611
600041**	Swivel wheel kit for 5621/5631

**Limited Quantity

Little Wonder Edger's

PART #	DESCRIPTION
GS6002-00-01	3.5 HP Briggs IC gasoline engine, 10" Pro-Edger
GS6232-00-01	4.0 HP Honda gasoline engine, 10" Pro-Edger
GS6020-00-01	Crevice crack cleaner kit
GS1270B	Replacement 8" wire brush for edgers



Little Wonder Crack Cleaner

Cutting up to 90 ft. per minute, these contractor-tough time savers are as rugged as they are easy to operate. With tough steel frames, cast iron cutter head housing and a selection of hardworking engines to choose from, they're built for heavy, daily usage.

- All models have controls positioned for added ease of operation.
- Little Wonder Edgers give you full cutting power at all depths, thanks to our unique height adjustment system.
- For a clear edge in durability, ease of operation and performance, it's Little Wonder.



Billy Goat® Blowers

Force Blowers are the only full line composite blower on the market. They cover 6HP through 18HP, features 15 & 16 blade computer designed composite fans matched to composite volute housing for best in class air volume, air velocity; unit weight; and dba rating vs. the competition. The units also feature the patented "Aim-n-Shoot" feature for directing and fanning air output from the operator position as well as industry leading ergonomic handles and larger wheel sizes.

F601S

At only 76 pounds, this unit is one of the lightest in its class making it a breeze to roll on the job. Ideal for driveways and small lots, it costs little more than a backpack, but is 2.5 times more powerful, so you'll get your work done faster with less fatigue. (Optional forward discharge: Part No. 441130.)

- Features:**
- 6 hp commercial engine
 - 16-blade fan
 - 3-year Subaru engine warranty

Air volume = 2.5 x backpacks*



F1301H

13 HP of professional productivity, this unit is ideal for full-sized seal coaters where productivity is key. Thick, padded ergonomic handles, pneumatic wheels and low Dba make it a crew favorite. The optional trailer lock down kit (Part No. 440120) and parking brake (Part No. 440140) are valuable time savers when loading and on hills.

- Features:**
- 13 hp commercial engine
 - 15-blade fan
 - 2-year warranty

Air volume = 4.5 x backpacks*



F901S and F901H

Step up to the commercial clean up power of a 9 HP blower. This unit is ideal for medium-sized pavement maintenance contractors. The optional trailer lock down kit (Part No. 440120) and parking brake (Part No. 440140) are valuable time savers when loading and on hills.

- Features:**
- 9 hp commercial engine
 - 15-blade fan
 - 3-year Subaru and 2-year Honda engine warranty

Air volume = 3.5 x backpacks*



Grazor®

The Grazor® is invaluable for the sealing contractor who has to remove vegetation and other debris from cracks and crevices before laying down crack filler and applying sealant. Unlike cheap lawn edgers that weren't designed for this application, the Grazor's robust construction and balanced platform make cleaning cracks much less of a chore.



Grazor & Slot Machine Options

- G600172 - 8" Wire wheel-heavy duty for Grazor
- G620158 - 1/2" Router bit for SL
- G620159 - 5/8" Router bit for SL
- G620160 - 3/4" Router bit for SL
- G620161 - 1" Router bit for SL

GZ401H & GZ451S

The Grazor® rips through ragged cracks and crevices at a rate of 5 feet every 15 seconds. Its rugged design and balanced platform are specifically engineered for the demands of the pavement industry. The pulley ratio is optimized for maximum cutting torque without belt slippage or premature sheave wear.

- Features:**
- 6-position height adjustment
 - 8" steel wire brush
 - Remote brush declutch
 - 3-year Subaru and 2-year Honda warranty



Model	Engine	Weight	Front Wheels	Rear Wheels	Length	Width	Height	Brush
GZ401H	4.0 HP Honda OHC	84lb	5" Full-circle Caster	8" Semi-pneumatic	42"	19"	39"	8" Wire
GZ451S	4.5 HP Subaru	85lb	5" Full-circle Caster	8" Semi-pneumatic	42"	19"	39"	8" Wire

Model	Velocity	Fan	Discharge	Engine	Weight	Front Wheels	Rear Wheels	Length	Width	Height
F601S	Just under 200 mph	16" 16-blade Composite Fan	3.5"	6.0 HP Subaru EX	76 lb	8" x 3" Semi-pneumatic	10" x 3" Pneumatic	43.5"	22"	26" (housing), 45" (handle)
F901S	Just under 200 mph	17" 15-blade Composite Fan	4"	9.0 HP Subaru EX	139 lb	10" x 3" Pneumatic	13" x 5" Pneumatic	58"	29.25"	32.5" (housing), 45" (handle)
F901H	Just under 200 mph	17" 15-blade Composite Fan	4"	9.0 HP Honda GX	148 lb	10" x 3" Pneumatic	13" x 5" Pneumatic	58"	29.25"	32.5" (housing), 45" (handle)
F1301H	Just under 200 mph	17" 15-blade Composite Fan	5"	13.0 HP Honda GX	161 lb	10" x 3" Pneumatic	13" x 5" Pneumatic	58"	29x25"	32.5" (housing), 45" (handle)
F1801V	Just under 200 mph	17" 15-blade Composite Fan	6"	18.0 HP Vanguard	179 lb	10" x 3" Pneumatic	13" x 5" Pneumatic	58"	29.25"	32.5" (housing), 45" (handle)

Features/Benefits



Grazor® - Wide, stable wheel base

Heavy-duty 8" semi-pneumatic tires improve stability and maneuverability on any hard surface.



8" Steel Wire Brush

Specifically designed to sweep through crevices for better prepared crack edges.



Powerful 15 and 16 Blade Fan

Computer designed for optimum performance, less weight, low noise, no rust and less stress on engine shaft. Compare to the competition.

Accessories



Forward Discharge Nozzle

(Optional for F6 series - part no. 441139; standard on F9 and F13 series.) Clears out debris next to buildings, fences or hedges. Patent Pending.



Quick Lock Down Kit

(Optional for F9, F13 and F18 models only. Part No. 440120) Quick trailer lock down attachment saves time.



Parking Brake Kit

(Optional for F9, F13 and F18 models only. Part No. 440140) Prevents roll-aways on inclines and saves relocation time when you need to step away.



Mobile Skid Mounted Mixer Sealer Tanks

MIXERS FOR SPRAYING COAL, TAR AND ASPHALT EMULSION SEALING PRODUCTS

- Skid mounted 39" wide x 12' long
- Tank capacities from: 300, 500, 1000, 1500 gallons
- Full sweep blade mixer with rubber squeegee wipers operates in either forward or reverse direction
- Side mounted ladder for easy and safe loading
- Large, hinged loading door with steel safety screen
- Large lifting hooks
- Dual sided hose hangers
- 50 ft. of high pressure spray hose and aluminum wand 5 ft. long with 80/70 tip
- Air operated gear reducer for agitation system, with adjustable speed control
- 13 HP Honda
- 175 PSI, 90 CFM air compressor, complete with all filters, regulators, and lubrication
- Built in surge system for uniform spraying of sealer
- Built in suction system to load from drums or tanks. 10 ft. long 2" diameter heavy duty suction hose with quick couplers
- 1 1/2" Wilden M2 air diaphragm pumping system
- In line material strainer

SEALER TANK WITH HAND AGITATOR

G1610 Model 300 HA
G1630 Model 550 HA
G1660 Model 1000 HA

SKID MOUNTED SEALER TANK WITH AIR POWERED AGITATOR

G1620 Model 300 APA
G1640 Model 550 APA
G1650 Model 1000 APA

SKID MOUNTED SEALER TANK WITH HYDRAULIC POWERED AGITATOR

G1670 Model 300 HPA
G1680 Model 550 HPA
G1690 Model 1000 HPA

SKID MOUNTED SEALER TANK W/AIR

POWERED AGITATOR & AIR PUMP

G1700 Model 300 APA-ADP
G1710 Model 550 APA-ADP
G1720 Model 1000 APA-ADP

SKID MOUNTED SEALER TANK W/HYDRAULIC

POWERED AGITATOR & ROPER PUMP

G1730 Model 300 HPS-HRP
G1740 Model 550 HPS-HRP
G1750 Model 1000 HPS-HRP

OPTIONS

G1802 Material Strainer
G1802A Material Basket Strainer - Large or Small
G1802D Air Regulator - For all spray units
G1802E Material Pumps
Graco 1' Model D73666 Huskey 1040
G1802F Seal Kit - For above pump D07666
G1802H Seal Kit - For pump No. D0B666 (for 1 1/2" pump)
G18021 Steel Water Tank - For brush cleaning and storage

GOOD SEAL

SPECIFICATIONS

- For all 300 and 550 gallon units, the steel tank is 12 gauge mild steel.
- The 1000 gallon tanks are 10 gauge mild steel.
- The three steel tanks with a pump system measure approximately:
 - 300 Gallon 37"W x 144"L
 - 550 Gallon 48"W x 144"L
 - 1000 Gallon 65"W x 144"L
- The entry doors on the top of units measure 24"L x 16"W, with a raised lip of 4"H and each contain a safety screen.
- All tank agitators have a 1-1/2" diameter steel shaft, with 3/8" keyway, and has 4 paddles.
- Each unit has sealed bearings to support the agitator shaft on each end.
- All spray units come standard with 50 feet of 3/4" high-pressure hose and a 5' aluminum spray wand.
Brackets are used to store the hose and wand on unit.
- The piping on the spray unit comes with 2" steel piping, valves and fittings as needed.
- Each spray unit comes standard with one 6' long, 2" diameter suction/discharge hose with quick coupler on one end.
- All units have steel lifting eyes on the top of the tank for easy loading and unloading from the transport unit.
- All air spray units come standard with an air compressor and a pull start 13 HP Honda gasoline engine.
It has a 30 gallon air tank that delivers 90 CFM at 175 PSI. The material air diaphragm pump is a Graco Huskey pump that has a 1-1/2" outlet and a 1-1/2" "out" outlet.
- All gravity type Good Seal Mixer tanks come with legs welded to the tank for support. Note: No skid.
- The units have a hand crank for the mixing of the material in tank.
- All units are pried and painted black.
- All hydraulic units come with a 10 HP Briggs and Stratton gasoline pull start engine.
The pumping system has a 2" roper material pump with a 2" discharge hose.

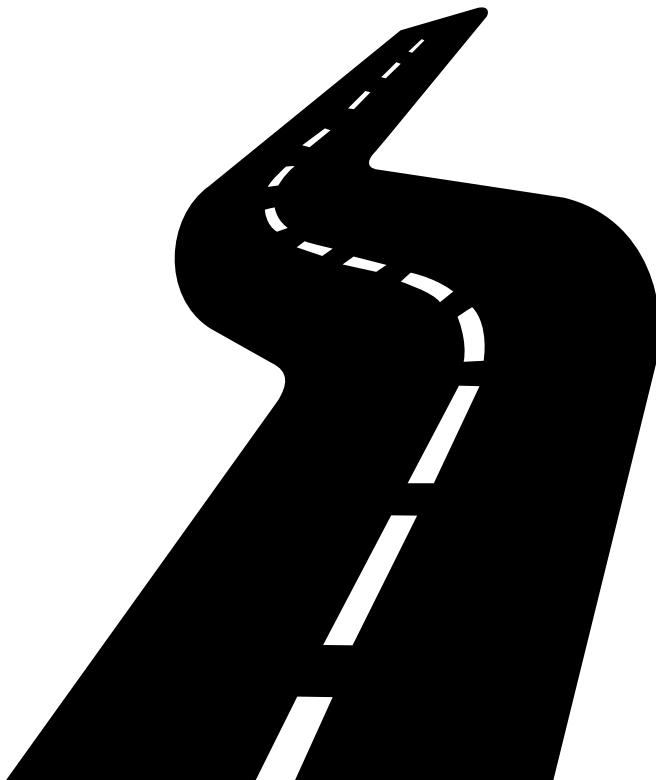
Note: Remember, when using a roper pump system, the pump is NOT designed to handle sealer with a silica sand added to it. The silica sand will destroy the roper pump very quickly.

*Specifications subject to change without notice.

Sherwin Industries, Inc.

MILWAUKEE, WISCONSIN

ESTABLISHED 1938



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Good Seal Products

A Division of Sherwin Industries, Incorporated