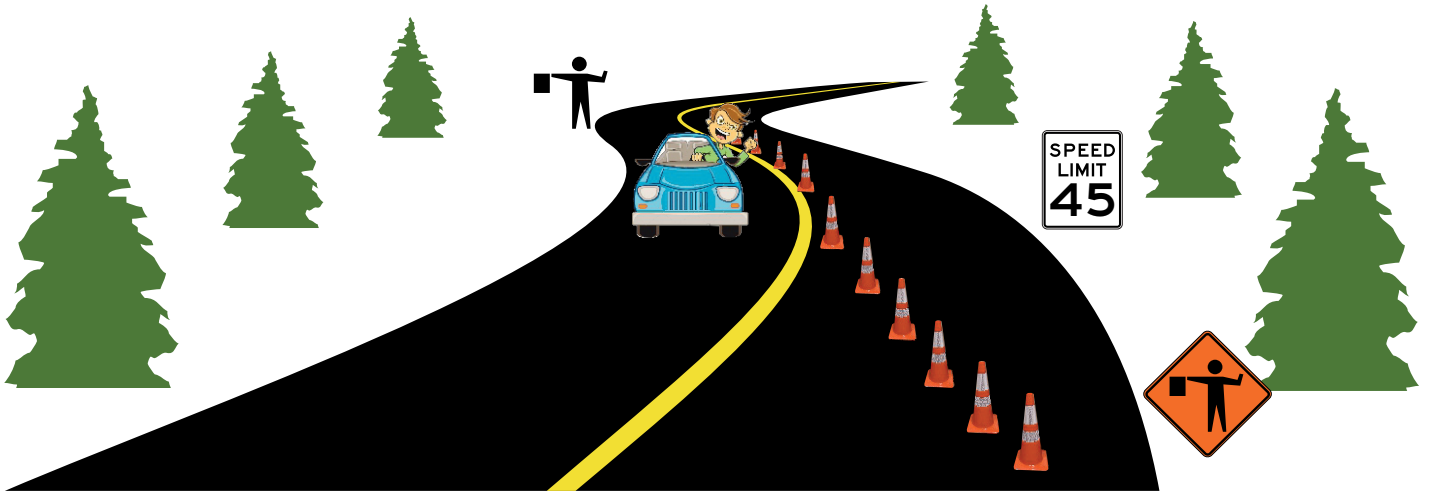


# Alpine Products, Inc.



## Your One Traffic Shop.

**JOE CHANES, SALES - TRAFFIC SUPPLIES**

[joe@alpinemarkings.com](mailto:joe@alpinemarkings.com)

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**[www.alpinemarkings.com](http://www.alpinemarkings.com)**

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**Everything For The Marking, Maintenance and  
Security of American Highways and Byways  
Founded 1978**

# OUR CUSTOMER SERVICE TEAM



**ENNIS-FLINT®**



## **Pavement Marking Products**

**RAISED PAVEMENT MARKERS  
TRAFFIC LINE STRIPING PAINT  
THERMO PLASTIC  
PAVEMENT MARKING STENCILS  
PREFORMED THERMO PAVEMENT MARKINGS  
TEMPORARY PAVEMENT MARKINGS  
PAVEMENT MARKER ADHESIVES  
CHIP SEAL MARKERS**

## **Asphalt Maintenance Products**

**HOT AND COLD CRACK SEALERS  
BAGGED PERMANENT POTHOLE PATCH  
TRAFFIC LOOP SEALERS  
AEROSOL LOCATING PAINT  
ASPHALT RAKES AND TAMPS  
STREET BROOMS, SHOVELS, ETC.  
RECYCLED RUBBER SPEED BUMPS  
AND WHEEL STOPS  
CONCRETE WHEEL STOPS**

## **Pavement Marking Equipment**

**GRACO WALK BEHIND STRIPERS  
RIDE ON STRIPERS  
THERMO PLASTIC APPLICATORS  
BITUMINOUS APPLICATION EQUIPMENT  
TRAFFIC LINE GRINDERS  
WALK BEHIND/HAND BLOWERS**

## **Traffic Safety Products**

**CONES AND BARRICADES  
STOP/SLOW PADDLES  
REFLECTIVE GUIDE POSTS  
SAFETY VESTS/HARD HATS  
SIGNS-TEMPORARY/PERMANENT  
PERSONAL SAFETY PRODUCTS**

**State Contract Pricing  
AVAILABLE TO ALL POLITICAL SUBDIVISIONS**

**Alpine Products, Inc.** is a full-line stocking distributor of traffic safety, signs, pavement marking/maintenance products and related application equipment.

Washington State Purchasing contracts awarded to **Alpine Products** and available to all State Agencies, Political subdivisions of Washington, Including Universities, Colleges, Community, and Technical Colleges. (And Oregon ORCPP Members.)

**Pre-Approved Traffic Line Paint (SOLVENT/WATERBORNE)**

**Low-Voc Highway/Road Striping Paint**

**Hi-Voc Marking and Road Striping Paint (Pails Only)**

**Waterborne Traffic Paint**

**Glass Beads for Traffic Paint**

**Reflective Glass Spheres for Traffic Paint, Thermoplastic, and other Durable Markings**

**Inverted Aerosol Marking Paint**

**Layout and Locating Marking Paint**

**Traffic Marking Paint**

**Athletic Field Marking Paint**

**Flexible Guideposts**

**Flexible Guideposts with reflective Sheeting**

**Guardrail/Barrier Markers with Reflective Sheeting**

**Raised Pavement Markers and adhesive**

**4x4 Reflective Raised Pavement Markers with Abrasion Resistant Coating**

**2x2 Low-Profile Reflective Raised Markers with Abrasive Resistant Coating**

**TRPM's Chip Seal Marker with Reflective Sheeting and Protective Cover**

**Hot Melt Flexible Bituminous Adhesive for Raised Pavement Markers**

**Epoxy Adhesive for pavement Markers, Delineators, Handicap Signs, etc.**



# TRAFFIC PAINT



**ENNIS-FLINT.**

A TRAFFIC SAFETY SOLUTIONS COMPANY

**Streets & Highways**

**Local & Rural Roads**

**Parking Lots**

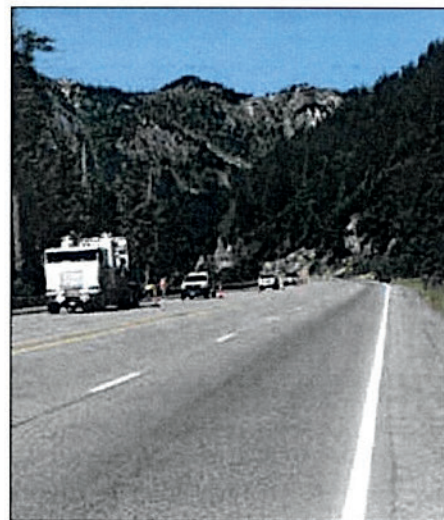


# **EF** TRAFFIC PAINT

Ennis-Flint manufactures and supplies a full line of traffic paints in both waterborne and solvent based formulations engineered to meet your specification whether Federal, State, local, or commercial based.

## **WATERBORNE TRAFFIC PAINT**

Environmentally friendly and lasting pavement markings, waterborne traffic paint is based on proven acrylic emulsion technologies. Formulated for use in a wide range of applications from streets and highways to parking lots, waterborne traffic paints can be applied from temperatures as low as 35°F to as high as 120°F. Waterborne paints are suitable for application on both bituminous and concrete substrates and can be sprayed with airless or conventional spray equipment.



### **STANDARD DRY**

- Low VOC formula; non-flammable
- Reduces and cleans up with water
- Excellent atomization and application characteristics
- Dries to a durable, abrasion-resistant finish in temperatures of 50°F and rising

### **FAST DRY**

- Worker and environmentally friendly
- Proven waterborne acrylic durability
- Minimizes traffic control when restriping
- Dries to "no track" in 2 minutes or less under standard conditions at 15 wet mils (vs. 25 min. std.)

### **HIGH BUILD**

- Increased durability through greater film build (30 mil)
- Dries to "no track" in 3 min. or less under standard conditions at 30 mils
- Flexible paint film to withstand road expansion/contraction
- Has ability to hold larger beads for enhanced retroreflectivity



### **DURASHEEN**

- Specifically for use where dirt pickup is an issue
- Excellent atomization and application characteristics
- Performs equally well on both asphalt and concrete surfaces
- Most commonly used for curbs on roadways and parking lots

### **EXTENDED SEASON**

- Developed for use from early Spring until late Fall
- Specialized formula eliminates switching to solvent systems in cold climates
- Eliminates hazardous waste and minimizes exposure to chemicals
- "No track" in less than 10 minutes at temperatures of 35°F and rising
- 9 month shelf life



From highway striping to parking lot delineation, choose from the versatile selection of EF Traffic Paints for your next pavement marking project.

## SOLVENT BASED TRAFFIC PAINT

Solvent based traffic paints are co-polymer based and formulated for use on streets and highways, rural roads, and parking lots.

Solvent based formulas are especially suitable for colder ambient applications where waterborne cannot be used. Suitable for application on bituminous and concrete substrates, a 15 mil application can be applied at temperatures near freezing; for faster drying times, it can be heated (maximum of 125°F) and sprayed with airless or conventional spray equipment.

Solvent based paints are classified as High VOC and Low VOC.

High VOC > 150 g/l typically 450 g/l

- Chlorinated Rubber
- Regular Dry Alkyd
- Acrylic Copolymer

Low VOC < 150 g/l

- Acrylic Copolymer (Low VOC)

## PRODUCT BENEFITS

- Versatile quick dry times with excellent durability
- Applies with ease at ambient temperatures as low as 40°F
- Designed to be used with or without glass beads
- Available in both Zone Markings and Low VOC formulations
- Allows for traffic markings in the colder "shoulder" season
- Dries to no pickup in 10 minutes or less when applied at 15 mils





## PREFORMED THERMOPLASTIC

Ennis-Flint manufactures and supplies a complete line of durable preformed thermoplastic products engineered to provide optimal performance, lasting value, and to extend the life of your pavement marking program.

Manufactured in our ISO 9001:2008 certified facility ensuring consistent thickness and composition to meet specifications, HotTape™ is formulated with the highest quality resin, binder, aggregate, glass bead, and pigment systems. Depending upon regulatory requirements or specific application purposes, HotTape™ is offered with the following options:



### BD = Beaded

Factory-applied surface beads and intermix beads are uniformly distributed at time of manufacturing so that as the marking wears, new beads are exposed

### NB = Non-beaded

No factory-applied surface beads; typically used for reversible arrows where beads are dispersed evenly over surface during field application

### SO = SkidOptics

In addition to intermix beads, SkidOptics is a feature that can be added to any HotTape marking at time of manufacturing to provide enhanced skid resistance while maintaining retroreflective performance. Used for crosswalks, bike symbols, and other markings with pedestrian traffic.

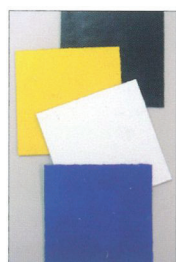
### ROLLS

Because of its flexible characteristics, HotTape™ 90-mil linear material is available in rolls.



### HOTSPOTS RAISED MARKER ADHESIVE

HotSpots are 5-inch squares of HotTape™ material used for adhering raised pavement markers. Application using a propane heat torch is the same as other HotTape™ markings on concrete and asphalt. No sealers are required. Simply apply marker to melted HotSpot.



HotSpot colors available:  
Black, yellow, white, blue

HotTape™ is a *Preheat* type of preformed thermoplastic material

- Preheating the road surface to a certain temperature is required

### BENEFITS OF USING HOTTAPE™

- Provides enhanced durability and visibility to help increase life of pavement marking program
- Pre-cut and ready to use out of the box. Simple application does not require major capital investments in application equipment.
- Supplied in 90- and 125-mil thicknesses. Available in 90-mil rolls.
- Sealer is not required for application on concrete.
- Clean edge appearance; no "alligator" cracking that can occur with hot-applied thermoplastic
- Minimal mobilization costs allows quick response to maintenance projects
- One year shelf life allows broader options for inventory management
- Modifies easily in field with razor knife or heavy duty scissors if required
- Easy to repair if road or utility maintenance requires a portion of the marking to be removed
- Sustainable product with small environmental impact. Recycled materials make up 60% of the product and 29% of the components are rapidly renewable materials, primarily from pine trees. Other natural resources used come from cotton, sunflowers, and soya.

### STANDARD REGULATORY COLORS AVAILABLE





HotTape™ is made for use on public streets, highways, and local roads as well as parking lots and roadways at shopping centers, school campuses, business parks and more.

## SIMPLE APPLICATION METHOD

*Always follow the complete set of application instructions provided with the product.*

Applying HotTape™ is fast, safe and cost-effective with an industrial propane heat torch such as the Magnum Heat Torch and an infrared thermometer. Preheating the pavement to a specified temperature is required prior to application.

### HIGH SKID RESISTANT FOR SAFETY

Specially made for crosswalks, bike paths, and other pedestrian uses, Skid Optics is a unique feature of HotTape™ that ensures skid resistance is maximized.

### VISIBILITY

HotTape™ is pre-beaded and incorporates intermixed glass beads which provide both initial and long-term retroreflectivity. HotTape™ is formulated with the highest quality color pigments resulting in vibrant colors offering superior daytime visibility.

### ENHANCED DURABILITY

HotTape™ is extremely durable and provides excellent long-term performance in critical ADT areas requiring transverse markings.

### IMPERVIOUS TO OIL AND GAS

HotTape™ is oil and gas impervious, yet compatible with all asphalt surfaces. HotTape™ can be applied on fresh asphalt as soon as the road surface sets.

### WORKER AND ENVIRONMENTAL SAFETY

With no lead chromate, heavy metal compounds or VOCs, HotTape™ is non-hazardous based on current EPA and OSHA standards either during application or removal.

### MANUFACTURING CONTROL

All HotTape™ preformed thermoplastic materials are made at Ennis-Flint's manufacturing facility which is ISO 9001:2008 certified for design, development and manufacturing.



Clean surface. Preheat pavement to 300° F.



Unroll or lay out material



Heat with propane heat torch then chisel test for bond

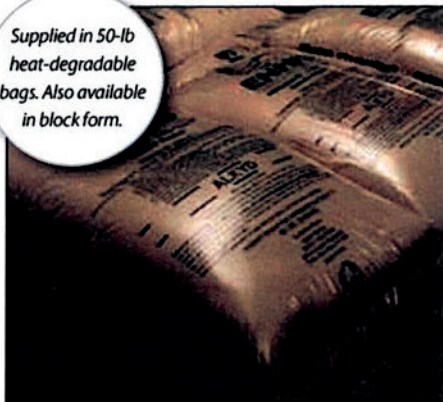
# EF THERMOPLASTIC

Ennis-Flint manufactures and supplies a full line of durable thermoplastic products in both alkyd and hydrocarbon formulations engineered to meet your specification whether Federal, State, local, or commercial based.

Thermoplastic pavement marking material is a 100% solid, environmentally and user safe compound containing pigments, glass beads, binder, and filler which becomes liquid when heated. Pigments provide color and opacity; fillers, such as calcium carbonate, add bulk; and binders, consisting of plasticizers and resins, provide toughness, flexibility and bond strength while holding all the components together. Intermixed and drop-on glass beads provide retroreflectivity for nighttime visibility of the pavement marking. There are two types of hot-applied thermoplastic.



Supplied in 50-lb heat-degradable bags. Also available in block form.



## HYDROCARBON THERMOPLASTIC

Made from petroleum-derived resins, it is best used for long-line applications.

## ALKYD THERMOPLASTIC

Made from wood-derived resins, a renewable natural resource, it is impervious to oil and diesel fuels.

## BENEFITS OF USING THERMOPLASTIC PAVEMENT MARKINGS

- Superior performance; abrasion resistant for durability
- Mechanically adheres to all asphalt pavements
- Adhesive bond to concrete (requires primer for application)
- Extended durability results from:
  - Intermix beads for maintained retroreflectivity
  - Flexible application thicknesses
- Formulated for quick dry of < 2 minutes at temperatures as low as 50°F
- Engineered to minimize lane interruptions and closures
- Application methods include spray, ribbon or screed (40-125 mils)
- Complete thermoplastic product line available in lead-free yellow

## STANDARD COLORS



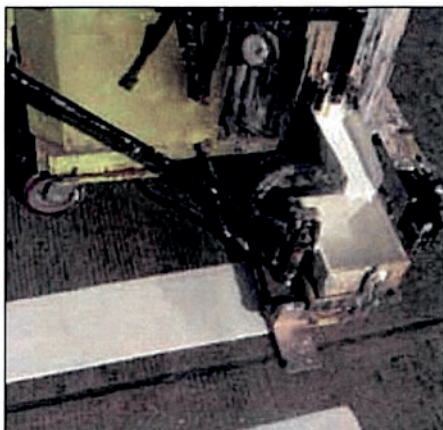
White



Yellow



A specially formulated black thermoplastic, used with white or yellow combination, enhances visual contrast on concrete or light-colored asphalt.



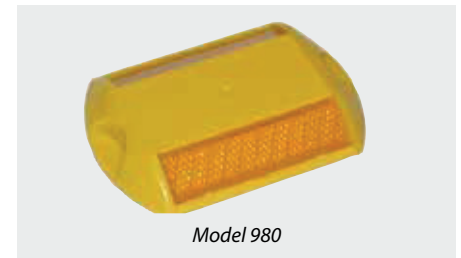


Proven durability and adhesion are combined with advanced optics and optimal abrasion-resistant treatments to deliver the high retained reflectivity needed on roadways.

## NON-PLOWABLE RAISED PAVEMENT MARKERS:

### High Performance

- Glass face model 980 provides maximum retained reflectivity
- Modular lens provides delineation after impact
- Specially engineered bottom ensures aggressive grip to the roadway
- Injection molded from durable high impact polymers
- Recommended for high ADT and high intensity conditions



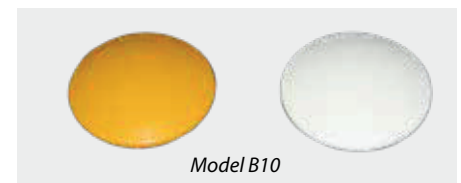
### Abrasion Resistant (Coated)

- Abrasion resistant coating or glass face provides enhanced retained reflectivity
- Advanced optics deliver high reflectivity and durability
- Recommended for high ADT and high intensity conditions



### Traffic Buttons

- Round non-retroreflective pavement markers
- White and yellow colors of ABS plastic
- 4 inches in diameter



## AVAILABLE COLORS OPTIONS



One Way Yellow  
Two Way Yellow  
Two Way Yellow/Red

One Way White  
Two Way White  
Two Way White/Red



One Way Blue  
Two Way Blue



One Way Green  
Two Way Green



One Way Red  
Two Way Red



## Duraset Product Line: General Information

Duraset is the trade name for Ennis Paint's methacrylate based multi-component durable pavement marking materials. The line consists of several products tailored for specific application methods, various film thicknesses and/or specific multi-component proportioning application equipment. All provide exceptional retroreflectivity and longevity at an attractive cost per useful life. They can be surface applied or inlaid onto asphalt or concrete roadways, and required AC02 (or equivalent) coated drop on glass beads.

These products and their descriptions are outlined below. Each Duraset type is available in white and lead free yellow. All are catalyzed by BPO (benzoyl peroxide). The form of this Part B catalyst varies by the Duraset type. Data sheets specific to each type are available upon request.

Our Duraset types 1 through 5 are based upon the older system of methacrylate resins which are externally plasticized. Types 6, 7, 8 and Pathfinder use the newer, internally plasticized methacrylate resin systems.

<u>Type</u>	<u>Description</u>
Duraset 1/1P	<p>A product designed for extrusion at 60 mils or more by a self propelled vehicle, pushcart, drag box, or trowel. The powdered or liquid BPO concentrate catalyst is blended in using a rotating mixing blade just prior to application on the job site. The product contains intermixed glass beads. Usage is for intersectional markings or long line applications.</p> <p>The 1P product can be applied using a profile forming self propelled or pushcart extrusion device. The profiles come in the shape of a raised bar at set intervals along and formed simultaneously with the extruded baseline. This base line can be 60 mils or more in thickness with the raised bar protruding at least 500 mils above the road surface. This raised bar provides both an audible warning and enhanced wet night delineation. Specify Duraset 1P when ordering material intended for profile application.</p>
Duraset 2	<p>This product is designed for installation of long line raised bar profile material using truck mounted extrusion equipment. Minimum thickness for the intermix bead containing extruded base line is 60 mils, with a 500 mil minimum raised bar profile installed simultaneously with the baseline. Automatic mixing of the methacrylate and BPO components takes place just prior to the application head. This material is a 4:1 liquid to liquid system.</p>
Duraset 3	<p>This material is designed to apply as flat long lines via extrusion using truck mounted equipment. Minimum thickness for the intermix bead containing extruded line is 60 mils. Automatic mixing of the methacrylate and BPO liquid components in a 4:1 ratio takes place just prior to the application head.</p>
Duraset 4	<p>This intermix bead containing system is designed for spray applications at a minimum of 30 mils thick. It can be used for either intersectional marking or long line applications, and is a 4:1 liquid to liquid system.</p>

- Duraset 5** Based upon a 4:1 ratio, this product is formulated without intermix beads for airless or air atomized spray application of 30 mils minimum. Intersectional or long line markings may be applied with this material. Although not required, two bead guns, one blowing glass into the material spray fan, the other set as a standard drop on configuration, is advisable for enhanced long term retroreflectivity.
- Duraset 6** This product is designed for installation of long line raised bar profile material using truck mounted extrusion equipment. Minimum thickness for the intermix bead containing extruded base line is 60 mils, with a 500 mil minimum raised bar profile installed simultaneously with the baseline using proportioning equipment at either a 1:1 or 21:1 ratio. The 1:1 product is delivered as a three components. The A part is put directly into the A tank as is. The B portion contains methacrylate that is slow reacting. Just prior to use, the proper amount of BPO concentrate is added to the B portion and mixed prior to putting into the B tank. As this mixed B material has a working pot life of 3 days, there is no need to flush out the B portion of the machine over a weekend. The B in the 21:1 is stable.
- Duraset 7** Designed for spray applications of 20-50 mils, this liquid to liquid system contains no glass beads and is metered using proportioning pumps at 1:1 or 27:1. It may be used for intersectional or long line delineation. The 1:1 product is delivered as a three components. The A part is put directly into the A tank as is. The B portion contains methacrylate that is slow reacting. Just prior to use, the proper amount of BPO concentrate is added to the B portion and mixed prior to putting into the B tank. As this mixed B material has a working pot life of 3 days, there is no need to flush out the B portion of the machine over a weekend. The B in the 27:1 is stable.
- Duraset 8** This intermix bead containing product is intended for surface applied or inlay flat line extrude application using proportioning equipment at either a 1:1 or 21:1 ratio. The 1:1 product is delivered as a three components. The A part is put directly into the A tank as is. The B portion contains methacrylate that is slow reacting. Just prior to use, the proper amount of BPO concentrate is added to the B portion and mixed prior to putting into the B tank. As this mixed B material has a working pot life of 3 days, there is no need to flush out the B portion of the machine over a weekend. The B in the 21:1 is stable.
- Duraset  
PATHFINDER** An intermix bead containing material designed to profile in a unique splatter technique also called "PATHFINDER". The pattern gives enhanced wet night retroreflectivity, allows more water to flow off the road surface, and is more resistant to snow plows than the bar profiled design application. The material is activated using either a powdered or liquid BPO catalyst, and the peaks can reach up to 200 mils or more in height. When viewed at the driver's angle, the PATHFINDER line appears solid when installed on a bare or new pavement surface. Intended primarily for long line work, the material is put down using self propelled motorized equipment in a controlled, yet random, pattern.

The information offered herein is, to the best of our knowledge, true and accurate. All recommendations are made without warranty, expressed or implied. As the conditions of use are beyond our control, neither Ennis Paint, Inc., nor its agents shall be liable for any injury, loss or damage, direct or consequential, arising from the use or the inability to use the products described herein. No person is authorized to make any statement or recommendation not contained in any Product Data Sheet, and any such statement or recommendation, if made, shall not bind the Corporation. Further, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents, and no license under the claims of any patent is either implied or granted. Effective 5/1/04.

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[www.ennispaint.com](http://www.ennispaint.com)



## MMA COLORED BIKE LANES

Ideal for long lane areas with low to high vehicle traffic including cross-over points such as parking lot entries/exits along the corridor.

CycleGrip®MMAX is a specialized system that combines state-of-the-art Methyl Methacrylate resins with hardwearing aggregate and premium pigments. CycleGrip®MMAX is pre-packaged for on-site mixing and convenience.

### BENEFITS

- Increases awareness of shared roadway use among motorists and cyclists
- Enhances visibility of bike lane presence
- Provides clear delineation and traffic calming treatment
- Promotes balanced multimodal transportation network
- Applied in a wide range of temperatures
- Open to traffic in approx. 20-60 minutes

### PERFORMANCE-BASED FEATURES

**Durability:** The state-of-the-art Methyl Methacrylate resins with hardwearing aggregate provide extreme durability.

**Friction:** Meets non-slip requirements for cyclists. Surface provides remarkable traction for safe pedestrian and cyclist traffic.

**Color Stability:** Advanced technology



provides long-lasting color retention, especially against UV rays.

### Convenient Packaging:

Each CycleGrip®MMAX kit mixes to 2.79 gallons and covers approximately 45-50 sq. ft. at 90 mils build thickness. It includes the following:

- CycleGrip®MMAX Resin: 2 gallons/7.57 liters (supplied in 5 gallon pail for easy mixing)
- CycleGrip®MMAX Aggregate: 1 - 25.7 lb/11.67 kg bag
- Catalyst\*: 12.35 fl. oz./365 ml (.51 lb/.23kg)

**Standard Color:** Used only for bike lane delineation.



### APPLICATION OVERVIEW

Refer to the complete set of CycleGrip®MMAX Application Instructions for detailed instructions for proper application, available at [www.ennisflint.com](http://www.ennisflint.com).

Substrate and ambient air temperature must be 40°F - 100°F. Also 5°F above dew point temperature and less than 75% relative humidity.

**Surface Prep:** The surface should be completely dry, clean and free of debris, water, and contaminants.

**Masking:** Use duct tape with plastic or paper to protect areas from overspray as needed.

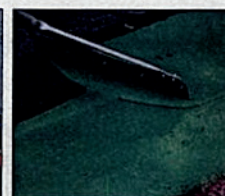
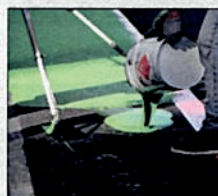


### Mixing:

Catalyst quantity is based on ambient and substrate temperature and must be mixed very thoroughly at specific rates.



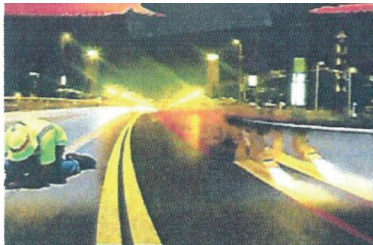
**Installation:** Immediately pour mixed material on pavement. Use squeegee to evenly distribute. Use trowel in small areas where squeegee cannot be used. Then back roll material in one direction to remove lines. Remove masking as material gels.



### Approximate coverage rates:

Kit covers approximately 45-50 sq. ft.





# HIGHWAY

STANDARD & PREMIUM SAFETY MARKING SPHERES

Durable, versatile and highly reflective... in all marking systems

## STANDARD

### Potters Standard Highway Spheres— Cost-effective Highway Delineation

- Retroreflective pavement markings deliver continuous roadway guidance to drivers and have been proven to increase highway safety.
- Our Standard Highway Marking Spheres provide cost-effective nighttime roadway delineation, and can meet any specific standard glass bead specification in North America.
- Our Standard spheres are consistent in quality and composition. Strict quality control produces spheres that optimize retroreflectivity. Proprietary coatings are available to resist agglomeration, ensure flotation for ideal embedment and improve adhesion for greater durability.
- Standard spheres may be applied as a drop-on in all commercial binders, including waterborne paint, epoxy, polyester, thermoplastic, PMMA and polyurea.
- Our beads meet the rigorous heavy metals limitations set forth by state and federal standards.

### Standard Spheres: Facts and Figures

- **Size:** 20–80 mesh (850–150 microns); a range of sizes offsets effects of traffic/binder degradation.
- **Compatible binders:** waterborne or solvent-based paint, epoxy, polyester, thermoplastic, PMMA, polyurea
- **Standards:** Spheres can be supplied to meet state specifications for gradation (size), roundness and coatings. Potters Industries is able to supply glass beads which meet any specific standard glass bead specification in North America.

Our beads meet  
the rigorous heavy  
metals limitations  
set forth by state  
and federal  
standards.

### Typical Standard Bead Size

U.S. Mesh Size	Millimeters	Mass % Passing
16	1.18	100
20	0.850	95–100
30	0.600	75–95
50	0.300	15–35
100	0.150	0–5

AASHTO M-247, Type 1, Roundness — 70%, 75%, and 80% overall by sieve size.



Potters retroreflective pavement markings deliver continuous roadway guidance to drivers and have been proven to increase highway safety.



Recycles Over One Billion Pounds Of Glass Each Year

See Your Potters Representative or Call (800) 55-BEADS  
Visit Us On The Web at [www.pottersbeads.com](http://www.pottersbeads.com)

# **LINELAZER V**

**BREAKTHROUGH  
INNOVATIONS ONLY FOUND  
ON THE LINELAZER V!**

**LazerGuide 2000 Laser-Guided Layout System**

**J-Log™ System with USB Download**

**LiveLook™ Display with SmartControl™**

**Distinctive Blue Frame**

**DualComfort Handle Bar System**

**Rear Gun Bar Holder**

**LazerGuide 1700 Start/Stop Laser**

**EasyMark™ Gun Adjustment System**

**EZ Align™ Wheel System**

**THE FIFTH GENERATION OF LINE STRIPING HAS ARRIVED**

# Exclusive LineLazer V

## AUTOMATIC STRIPING MODES

Eliminate the fatigue that comes from pulling a lever all day for your striping jobs. How? With the new LineLazer V HP Automatic units you simply push a red button and the unit literally stripes for you! Take a look below at some of the ways "You'll never pull a lever again" – Only with Graco!

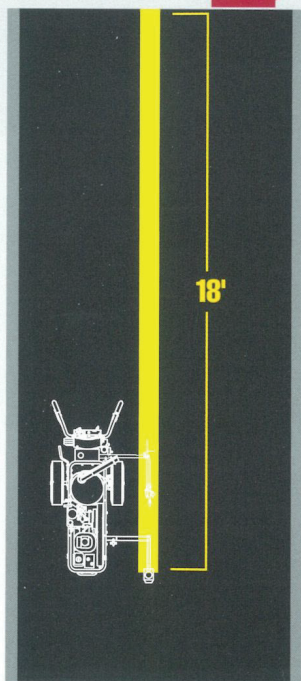


**Only LineLazer V offers (4) distinct modes of striping!**

### AUTOMATIC MANUAL

Push a button instead of pulling a lever – easy and fast

**PUSH AND HOLD**



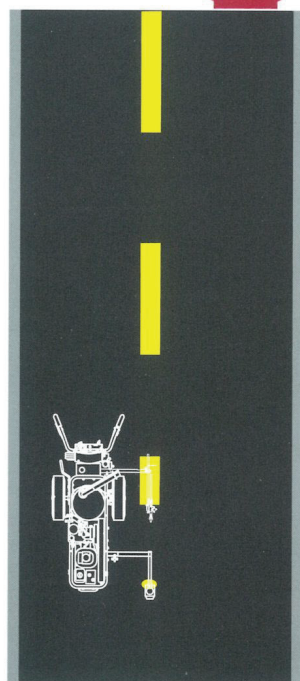
**RELEASE TO STOP**

Re-stripe Jobs  
Long Line Striping—City Streets  
Parking Stall Stripes

### AUTOMATIC

Automatic skip lines have never been easier or more accurate

**PUSH START**



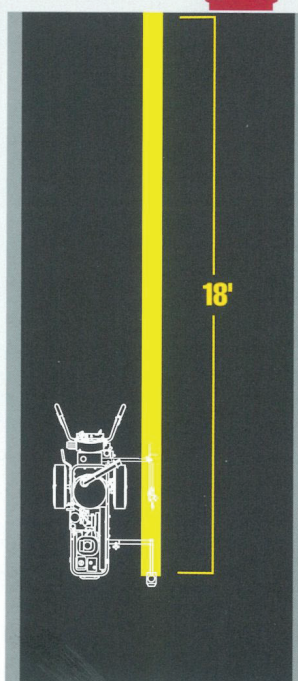
**PUSH STOP**

Re-stripe Jobs  
Parking Lot Lines—All Sizes  
Road Stripes—City Streets

### SEMI-AUTOMATIC

Perfect restripes for parking stalls or center line skips – push the button and it does the rest

**PUSH START**



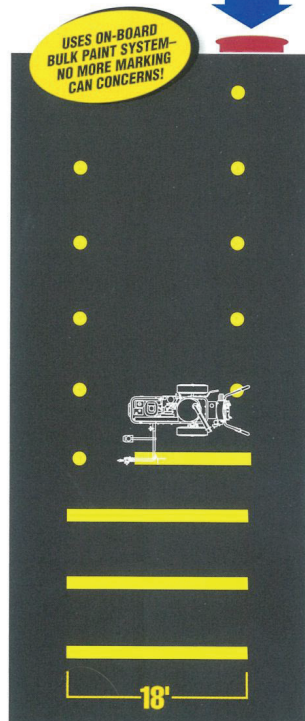
**AUTO STOP**

Re-stripe Jobs  
Parking Lot Lines—All Sizes  
Road Stripes  
(Re-stripes)—City Streets  
Skip Lines—Bike Paths

### AUTO-LAYOUT II

No more cans to deal with! Cuts up to 50% of your layout time

**PUSH START**



**PUSH STOP**

New Parking Lot Layout Jobs  
Raised Marker layout  
Ghost markings for odd jobs



## INDOOR APPLICATIONS

- Warehouses
- Factories
- Parking Garages
- Indoor Sports Facilities



## OUTDOOR APPLICATIONS

- Parking Lots
- Paths
- Intersections
- Airports



**EPOWERR**

# EXCLUSIVE ELECTRIC STRIPING SOLUTIONS

## FUME-FREE, NOISE-FREE, AND VIBRATION-FREE PERFORMANCE

Only Graco offers a complete line of electric striping solutions designed to deliver quiet, fume-free performance on indoor jobs, and the power to tackle large outdoor applications.



### LINELAZER ES 1000

PATENT PENDING

- The industry's first battery-powered striper
- No engine noise, vibration, or fumes
- High-capacity batteries with onboard 12V charger
- Simply plug in to recharge
- Run on 120V wall power—just plug it in



### LINELAZER V ES 2000 STANDARD SERIES

PATENT PENDING

- Get your job done faster
- Higher output
- Supports 2-gun operation
- LiveLook Display



### LINELAZER V ES 2000 HP AUTOMATIC SERIES

PATENT PENDING

- Automatic paint gun system
- Simplify layout and skip line work
- Job performance tracking
- J-Log System with USB download



### MAXIMUM ELECTRIC STRIPING PRODUCTIVITY LINEDRIVER® ES

PATENT PENDING

- No engine noise, vibration, or fumes
- More accurate lines—ExactMil™ speed control and low vibration
- Get the job done fast—higher output with the electric, battery-powered LineDriver ES

# LINEDRIVER ES

## WHY WALK WHEN YOU CAN RIDE?

The Graco LineDriver ES is the quietest, most innovative, user-friendly ride-on system. Simply connect the LineDriver ES to your LineLazer striper to double your striping productivity on any indoor or outdoor job, without the engine noise, vibration, or fumes.

### THE INDUSTRY'S FIRST ELECTRIC BATTERY-POWERED LINEDRIVER!

#### HIGH-SPEED PRODUCTION EFFICIENCY

- 10 mph maximum speed
- 9-12 hours of run time

#### QUIET, ALL-DAY RELIABLE POWER

##### High-Capacity Batteries

- Four, 6V Sealed Lead-Acid 225 Ahr AGM Batteries

#### CONSISTENT LINES EVERY TIME

##### ExactMil™ Speed Control (PATENT PENDING)

- Set your speed for guaranteed perfect lines every time
- Exactly meet the mil thickness requirement—resulting in quality work with no wasted paint

#### SUPERIOR CONTROL AND EXTENDED RUN-TIME

##### SmartDrive™ Technology with Advanced Eco-Mode

- Performance and feel of a Gas-powered LineDriver
- Regenerative braking recharges batteries to extend run-time
- Eco-Mode allows for 12 full hours of run time and precise control at low speeds

#### SIMPLE, PLUG-IN CHARGING

##### Onboard 24 V Charger

- Longer battery life with extended battery-tender feature

#### EASY ACCESSORY CHARGING

##### Dedicated 12V Power Supply

- Dual “cigarette lighter” power supplies for all your accessories
- Dual LED light outputs

#### QUICK-VIEW POWER LEVEL

##### Battery Monitor System

- Displays battery level for easy recall
- Alerts user when battery is low and requires a recharge

#### ON-HAND STORAGE

##### Back Rack Storage Shelf

- Convenient storage for on-the-job supplies



LINEDRIVER	PART #
LineDriver ES	25N555

# LineDriver/ LineDriver HD

## DESCRIPTION LINEDRIVER

PART #  
262004

## SPECIFICATIONS

OPERATING SPEED: UP TO 10 MPH  
(16 KM/H)  
REVERSE 6 MPH  
(10 KM/H)

FUEL CAPACITY GAL (L): 0.95 (3.6)

HONDA GX  
ENGINE CC (HP): 160 (5.5)

STARTING SYSTEM: MANUAL PULL

WEIGHT LB (KG): 265 (120)

## DESCRIPTION LINEDRIVER HD

PART #  
262005

## SPECIFICATIONS

OPERATING SPEED: UP TO 10 MPH  
(16 KM/H)  
REVERSE 6 MPH  
(10 KM/H)

FUEL CAPACITY GAL (L): 0.95 (3.6)

HONDA  
ENGINE CC (HP): 200 (6.5)

STARTING SYSTEM: PROSTART SYSTEM

WEIGHT LB (KG): 275 (125)



Why walk when you can ride? Graco offers two high performance LineDriver Systems to connect to your ThermoLazer unit to help improve your thermoplastic applications. The LineDriver and LineDriver HD attachments provide the most innovative, user-friendly ride-on systems for the professional thermoplastic contractor in the industry.



LineDriver HD

## Features

### Exclusive FlexBeam Break-A-Way Light System

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

### Patented Dual Foot Pedal System

- ▶ For forward and reverse. Move between jobs without having to PUSH!

### Exclusive ProStart Engine Starting System

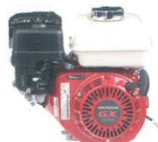
- ▶ Up to 50% less pulling effort to start the engine—no more broken recoils
- ▶ Outperforms manual pull and electric start systems when the weather starts turning cooler

### Honda® Engine

Compact, lightweight, and powerful, Honda engines are reliable, technologically advanced, and easy to start.

- ▶ Oil Alert shuts down engine if oil level drops too low, preventing damage
- ▶ Contractor preferred

POWERED by **HONDA**



Break-A-Way Light System



Dual Foot Pedal System  
(Patent 6,883,633)



MADE IN THE USA WITH  
GLOBAL COMPONENTS

## Two Gun Systems

# LineLazer V 3900

### DESCRIPTION PART #

LINELAZER V 3900  
STANDARD  
(2-GUNS, BOTH MANUAL) 17H450

LINELAZER V 3900  
HP AUTOMATIC  
(2-GUNS; 1-AUTOMATIC,  
1-MANUAL) 17H452

LINELAZER V 3900  
HP AUTOMATIC  
(2-GUNS; BOTH AUTOMATIC) 17H453

LINELAZER V 3900  
HP AUTOMATIC  
(1-AUTOMATIC, 1 MANUAL)  
WITH LAZERGUIDE 2000 17U804

LINELAZER V 3900  
HP AUTOMATIC  
(2-GUNS; BOTH AUTOMATIC)  
WITH LAZERGUIDE 2000 17U805

### SPECIFICATIONS

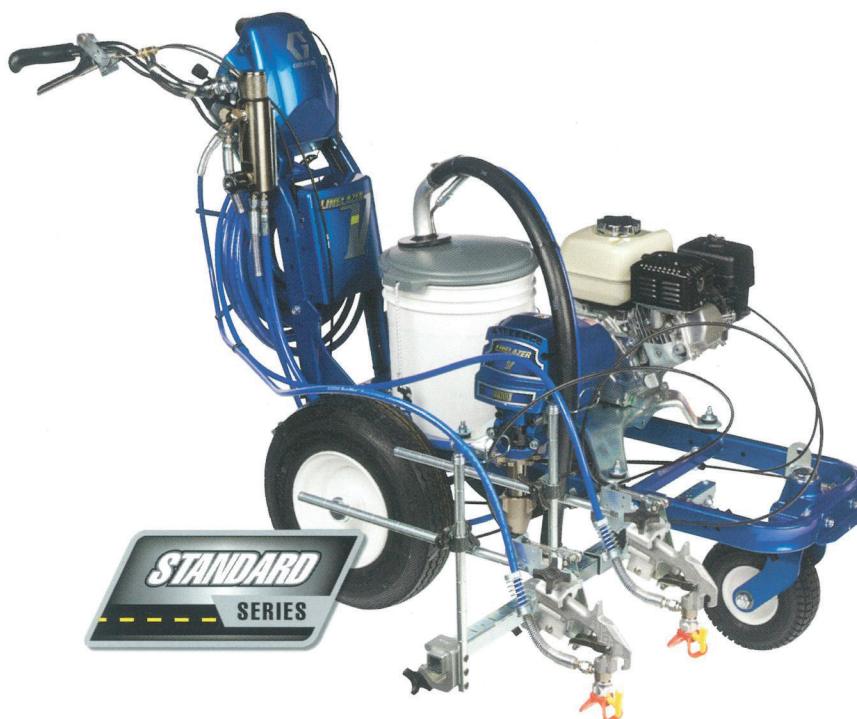
MAX TIP SIZE: 0.036 1-Gun  
0.025 2-Guns

MAX GPM (LPM): 1.25 (4.7)

MAX PSI (BAR): 3300 (227)

HONDA GX  
ENGINE CC (HP): 120 (4.0)

The **LineLazer V 3900** is the airless line striping choice for professional striping contractors who want the industry's best striping unit. When it's time for 2-gun performance, no one does it better than Graco. Designed to deliver the most precise and consistent lines in the industry, it is the perfect choice for new lot layouts, small city jobs and even big malls. With the option to add a LineDriver, the performance of the LineLazer V 3900 is unmatched.



## LineLazer Features:

### Standard Series Features

#### EasyMark Gun Adjustment System

- ▶ Simple guide mark system
- ▶ Easy gun on/off, front/back
- ▶ Perfect gun set up—every time

#### EZ Align Front Wheel System

- ▶ Keeps unit tracking straight
- ▶ Intuitive design

#### DualComfort Handle Bar System

- ▶ Fits all users—easy to adjust

#### LiveLook Display with SmartControl

- ▶ Tracks all aspects of your job
- ▶ Real-time information

### Additional HP Automatic Series Features

#### Automatic, Semi-Automatic Guns

- ▶ Push button control for accurate stripes every time

#### Auto-Layout II

- ▶ Easy to use—cuts layout time in half
- ▶ Exclusive LazerGuide 1700 Start/Stop Laser

#### Data Logging with J-Log System

- ▶ On-board job information for "proof" of completion
- ▶ USB download capabilities allows you to capture and save all job data

#### On-Board Power

- ▶ 12V battery for all your accessory items

#### One-Touch Stripes

- ▶ Walk behind first

The **LineLazer V 5900** continues to be the mid to heavy-duty striping solution for professional contractors who recognize the increased productivity this leader delivers. With it's ability to use 1 or 2 airless paint guns there are no jobs too big or small for the LineLazer V 5900—large parking lots, city streets and everything in between. Known for years by professional contractors for its productivity, the innovations of this new generation positions the 5900 to again exceed all expectations.



## Two Gun Systems

### LineLazer V 5900

DESCRIPTION	PART #
LINELAZER V 5900 STANDARD (2-GUNS; BOTH MANUAL)	17H455

LINELAZER V 5900 HP AUTOMATIC (2-GUNS; 1-AUTOMATIC, 1-MANUAL)	17H457
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LINELAZER V 5900 HP AUTOMATIC (2-GUNS; BOTH AUTOMATIC)	17H458
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LINELAZER V 5900 HP AUTOMATIC (2-GUNS; 1-AUTOMATIC, 1 MANUAL) WITH LAZERGUIDE 2000	17U802
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LINELAZER V 5900 HP AUTOMATIC (2-GUNS; BOTH AUTOMATIC) WITH LAZERGUIDE 2000	17U803
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#### SPECIFICATIONS

MAX TIP SIZE:	0.043 1-Gun 0.029 2-Guns
MAX GPM (LPM):	1.60 (6.0)
MAX PSI (BAR):	3300 (227)
HONDA GX ENGINE CC (HP):	160 (5.5)

## Benefits of LazerGuide 2000 Laser-Guided Layout System

### Higher Productivity

- No more wasting time laying out parking lots with strings, tape measures and chalk

### Less Labor

- Stripe parking lots with just one person

### Less Fatigue

- No more bending over to put down sting, tape measure and marking chalk
- Add LineDriver® and never walk again!

### Simple Operation

- Just line it up with the target box and go

### Accurate

- Once lined up with the striper, you are assured straight lines every time



**LazerGuide™ 2000**  
Laser-Guided Layout System

## Stand-On, Self-Propelled

# LineLazer V 250SPS

## Self-Propelled System

(Patent Pending)

### DESCRIPTION PART #

LINELAZER V 250SPS  
HP AUTOMATIC (2-GUN) 17H467

LINELAZER V 250SPS  
HP REFLECTIVE (2-GUN  
UNIT WITH PRESSURIZED  
BEADSYSTEM INSTALLED)  
• 1 BEAD TANK 17J951

LINELAZER V 250SPS  
HP REFLECTIVE (2-GUN  
UNIT WITH PRESSURIZED  
BEAD SYSTEM INSTALLED)  
• 2 BEAD TANKS 17H469

LINELAZER V 250SPS  
HP REFLECTIVE 2-GUN  
UNIT WITH PRESSURIZED  
BEAD SYSTEM INSTALLED)  
WITH LAZERGUIDE 3000  
LONG-LINE LASER  
• 1 BEAD TANK 25D345

LINELAZER V 250SPS  
HP REFLECTIVE (2-GUN  
UNIT WITH PRESSURIZED  
BEAD SYSTEM INSTALLED)  
WITH LAZERGUIDE 3000  
LONG-LINE LASER  
• 2 BEAD TANKS 25D340

### SPECIFICATIONS

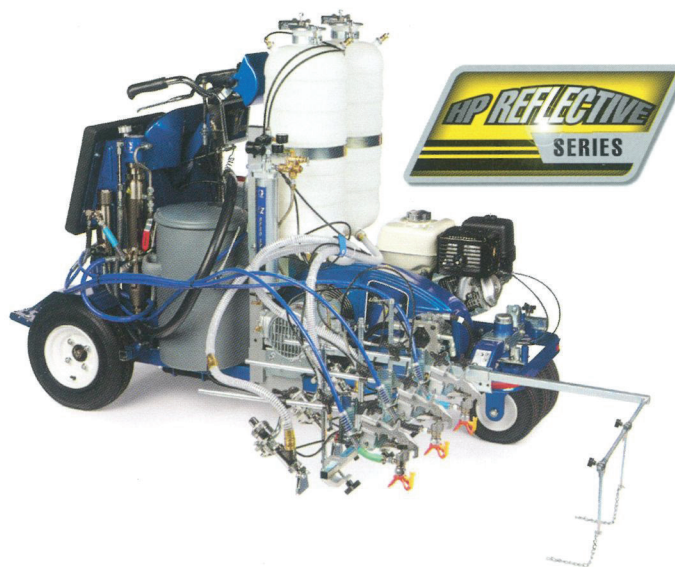
MAX TIP SIZE: 0.055 1-Gun  
0.039 2-Guns  
0.031 3-Guns  
0.025 4-Guns  
0.021 5-Guns

MAX GPM (LPM): 2.5 (9.5)

MAX PSI (BAR): 3300 (227)

HONDA GX  
ENGINE CC (HP): 390 (13.0)  
ELECTRIC START

High performance striping with the exclusive automatic paint guns makes the **LineLazer V 250SPS** the preferred striper for professional contractors who demand hydraulic power. This striper is ideal for large, heavy-duty line striping jobs including parking lots and road jobs.



### Automatic Gun Control System

- ▶ Manual, Automatic or Semi-Automatic paint and bead guns with the push of a button

### Electric Clutch System

- ▶ Disengages engine for fast starting

### 25-Gallon (95 L) Paint Hopper

- ▶ Extended striping time with large capacity hopper

### Honda 13 HP GX Engine—Electric Start

- ▶ Industry proven performance with the most demanded engine by contractors

### Remote Mount - Control Box

- ▶ Simple to use and easy to see in all conditions
- ▶ Information at-a-glance

### Graco Hydraulic Motor System

- ▶ Graco's no-stall hydraulic motor for uninterrupted performance

### Flex Plus™ Guns

- ▶ Industry proven paint guns with LineLazer tips provide precise lines

### Endurance Piston Pump System

- ▶ Long life pump provides precise flow for wide range of striping materials

### Rear Gun Mount System

- ▶ Provides straighter long lines—perfect for bike paths, airports and other long line jobs

### Exclusive Self-Centering Front Wheel

- ▶ Eliminates one user interface for simpler operation
- ▶ Foam filled for stability

Spray two colors *simultaneously* with Graco's new **LineLazer V 250dc**. Ideally suited for airports, municipalities, DOTs or anyone who needs to spray highlight lines or other dual-color stripes. The LineLazer V 250dc redefines line-stripping productivity and flexibility by spraying two colors simultaneously or independently.



Shown with optional  
**LazerGuide™ 3000**  
Long-Line Laser

#### Dual Graco Hydraulic Motors

- No-Stall design provides uninterrupted performance

#### Dual Endurance Displacement Pumps

- Provides precise flow for a wide range of stripping materials

#### Exclusive Self-Centering Front Wheel

- Provides simpler operation

#### Exclusive Stand-On Platform

- Provides ergonomic place for standing, great view and all-day comfort

#### Dual 15-Gallon Paint Hoppers

- Simultaneously spray two colors and refill less often

#### Front or Rear Gun Mount

- Use up to six guns to create straighter long lines

#### Flex Plus Guns

- Industry proven paint guns provide precise lines

#### Graco Bead Guns

- Reliable design delivers proven performance

#### Honda 13 HP GX Engine

- Electric start for ease of use

#### Dual Bead Tanks

- Holds up to 240 lbs of beads (120 lbs each)

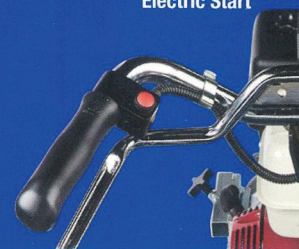
## Stand-On, Self-Propelled

# LineLazer V 250dc Self-Propelled System

DESCRIPTION	PART #
LINELAZER V 250DC HP AUTOMATIC (2 PAINT GUNS)	17H471
LINELAZER V 250DC HP AUTOMATIC (3 PAINT GUNS)	17H472
LINELAZER V 250DC HP REFLECTIVE (2 PAINT AND BEAD GUNS WITH PRESSURIZED BEAD SYSTEM; 2 BEAD TANKS—INSTALLED)	17H473
LINELAZER V 250DC HP REFLECTIVE (3 PAINT AND BEAD GUNS WITH PRESSURIZED BEAD SYSTEM; 2 BEAD TANKS—INSTALLED)	17H474
LINELAZER V 250DC HP REFLECTIVE (2 PAINT AND BEAD GUNS WITH PRESSURIZED BEAD SYSTEM; 2 BEAD TANKS—INSTALLED) WITH LAZERGUIDE 3000 LONG-LINE LASER	25D343
LINELAZER V 250DC HP REFLECTIVE (3 PAINT AND BEAD GUNS WITH PRESSURIZED BEAD SYSTEM; 2 BEAD TANKS—INSTALLED) WITH LAZERGUIDE 3000 LONG-LINE LASER	25D344

#### SPECIFICATIONS

MAX TIP SIZE:	0.055—1 Gun 0.039—2 Guns 0.031—3 Guns 0.025—4 Guns 0.021—5 Guns
MAX GPM (LPM):	2.50 (9.5)
MAX PSI (BAR):	3300 (227)
HONDA GX ENGINE CC (HP):	390 (13) Electric Start



**Electric Gun Control**—Manual, Automatic or Semi-Automatic paint and bead guns with a push of a red button.

# ThermoLazer

# 200TC

## System

(Patent Pending)

**DESCRIPTION**  
THERMO LAZER 200TC  
(Includes 4-inch FlexDie)

**PART #**  
24U282

### SPECIFICATIONS

WEIGHT (UNIT ONLY):	260 LB
MATERIAL CAPACITY:	200 LB
BEAD HOPPER CAPACITY:	40 LB
STANDARD BEAD DISPENSING WIDTH:	12.5 IN
OPTIONAL BEAD DISPENSING WIDTH:	8.5 IN
TEMPERATURE:	UP TO 450°
MAIN BURNER BTUs:	30,000
PROPANE TANK SIZE:	20 LB

The FlexDie is built with the same precision and functionality as its big brother, the SmartDie II. Solid steel construction, built-in die adjustment and direct flames will give you great lines every time.

* COMPLETE SYSTEM #	FLEXDIE PART #	DESCRIPTION
17A332	16Y661	2 in (5 cm)
17A333	16Y662	3 in (8 cm)
24U282	16Y320	4 in (10 cm)
17A334	16Y663	5 in (12 cm)
17A335	16Y190	6 in (15 cm)
17A336	16Y664	7 in (18 cm)
17A337	16Y326	8 in (20 cm)
17A338	16Y665	9 in (22.5 cm)
17A339	16Y332	10 in (25 cm)
17A340	16Y207	12 in (30 cm)
17A341	16Y338	3 in x 3 in x 3 in (8 cm x 8 cm x 8 cm)
17A342	16Y352	4 in x 3 in x 4 in (10 cm x 8 cm x 10 cm)
17A343	16Y666	4 in x 2 in x 4 in (10 cm x 5 cm x 10 cm)
17A344	16Y363	4 in x 4 in x 4 in (10 cm x 10 cm x 10 cm)

\*COMPLETE SYSTEM INCLUDES:  
(1) ThermoLazer 200tc  
(1) FlexDie



## Features

### FlexDie\*

- Delivers excellent line quality with exclusive deep-die, all steel construction and a no-tools change out design

### 200 lb Material Kettle

- Easy-to-fill cylindrical kettle allows for precise heating of thermoplastic material, and its no-tool change-out design lets you switch colors fast

### 40 lb Bead Hopper

- Perfectly matched to the material kettle with a superior flow design

### Direct Heat System

- Direct flames and an on-board hand torch deliver maximum heat, resulting in maximum material flow

### Tri-Wheel System

- Dual solid front and single solid rear wheels provide smooth, quiet operation

### Adjustable Operator Handle

- Handle easily adjusts to multiple heights

### Adjustable Front Pointer

- Easily adjusts for all size dies for following all marks and creating straight lines

### Bead Dispenser

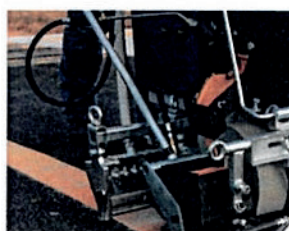
- 8.5 or 12.5-in dispenser, and 1-inch increments allow you to "dial-in" the bead drop rate



Rear Wheel System with release and brake.



FlexDie—Steel die built to last!



Excellent line quality.



# GRINDLAZER

## HIGH PRODUCTION SERIES

### HP DC1013 G DCS

The GrindLazer HP DC1013 G DCS has the added benefit of a Depth Control System and Electric Start — increasing your accuracy and reducing fatigue.



### ELIMINATE MEASURING AND GUESSWORK

#### New GrindLazer Depth Control System

- Quickly and easily adjust the cutter depth to align with ever-changing terrain
- Eliminates damage due to dropped drums



HP DC1013 G DCS shown

POWERED BY HONDA

### ULTIMATE CONTROL AND APPLICATION FLEXIBILITY

#### DCS Controller

- User settable zero point to match cutter assembly
- Displays active depth
- English and metric units
- Robust design stands up to the harsh abuse:
  - Fully encapsulated electronic components
  - Ultimate protection from vibration, jobsite, and weather conditions

### TOTAL OPERATOR CONTROL

#### Remote Momentary Switch

- Control cut depth while keeping both hands on the GrindLazer

### REDUCED FATIGUE

#### Electric Start on all DCS units

- Simple start-up with the turn of a key

### EASY CUTTER DEPTH CONTROL

#### DialDown Depth Control System

- Easy to “dial down” for precise cutting depth control with multiple positions

### ALL-DAY COMFORT

#### Vibration Reduction Technology

- Up to 4X less vibration than the competition
- Pneumatic air-filled tires, comfort grips, and cart design combine to eliminate vibration, reducing user fatigue
- Comfort-grip handlebars for precise steering

### ULTIMATE REMOVAL

#### InstaCut Technology

- Only unit to offer “hands-on” engagement of the cutting deck system for up or down position
- Allows deck to “float” when on uneven surfaces
- No-tool system



# GRINDLAZER STANDARD SERIES

## DC87 G AND DC89 G

The GrindLazer Standard DC87 G (6.5 HP) and DC89 G (9.0 HP) Series scarifiers are great options for those smaller traffic marking removal jobs, trip hazard removal, and for preparing a surface before applying new traffic markings.

### **JOBSITE TOUGH DESIGN**

Heavy-Duty All-Steel Frame

### **CONTRACTOR-PREFERRED POWER**

Durable Honda® Power with Cyclone™ Filter

- Cyclone filter protects the engine from harmful airborne dust

### **EASY MICRO AND MACRO ADJUSTMENTS**

Dual Depth Control

- Multi-position lever and rotating knob controls

### **REDUCED VIBRATION FOR ALL-DAY COMFORT**

Comfort Grip Handles

### **USER-FRIENDLY OPERATION**

- Adjustable handlebar to fit different operators
- Easy-to-reach throttle control

### **BUILT-IN APPLICATION FLEXIBILITY**

Swivel and Fixed Front Wheel

- Swivel Wheel for feathering applications
- Fixed Wheel for straight line removal

### **MAINTENANCE-FREE DESIGN**

Sealed Main Bearing

- Long life and ease of use

### **DURABLE HIGH-TORQUE POWER TRANSFER**

Triple Drive Belts

### **OPTIONAL DUST REMOVAL**

- Vacuum port for LazerVac vacuum system

### **EASY-TO-READ GAUGES**

Dual Purpose Tachometer and Hour Meter

- Ideal for maintenance—ensuring your equipment is in top shape
- Displays engine RPMs while running

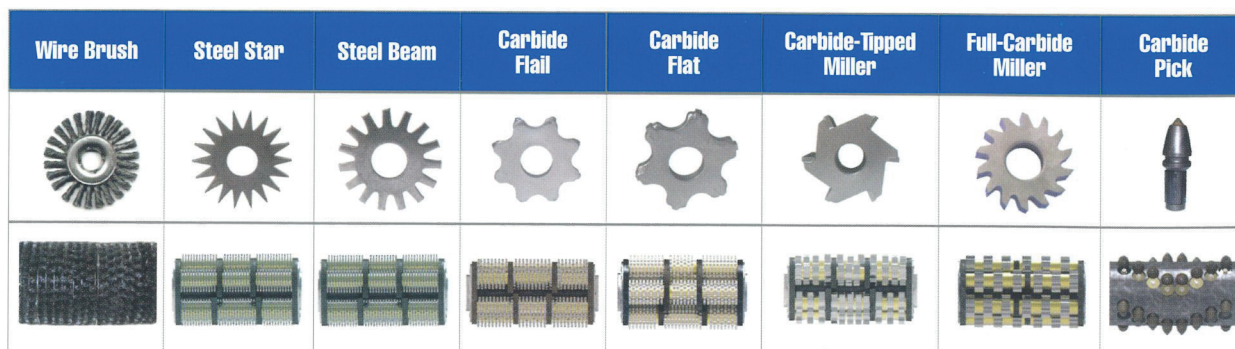


Standard DC89 G  
shown

POWERED by HONDA

STANDARD SERIES GRINDLAZERS	PART #
DC87 G (bare)	25M842
DC89 G (bare)	25M843

STANDARD SERIES ACCESSORIES	PART #
Dust Suppression Water Kit	25N367
Edger Kit (bare)	25M933
Steel Beam, 2" Fine Edger Drum	25N442
Carbide Flail, 2" Medium Edger Drum	25N443
Carbide Flail, 2" Fine Edger Drum	25N444



Individual Cutter	Fully Assembled Drum	Drum Rebuild Kit
19A034		
	25N227	25N306
	25N228	25N307
	25N229	25N308
	25N230	25N309
	25N231	25N310
	25N232	25N311
	25M956	25N312
	25N233	25N313
	25N234	25N314
19A040		
	25N238	25N318
	25N239	25N319
	25N241	25N320
	25N242	25N321
	25N243	25N322
	25N244	25N323
	25M958	25N324
	25N245	25N325
	25N246	25N326
19A080		
	25M964	

Cutter Type	Profile	Cut Width	# Cutters	# Spacers	# Rods
Carbide-Tipped Miller			1		
Carbide-Tipped Miller	Fine	10 in	42	132	6
Carbide-Tipped Miller	Fine	8 in	36	174	6
Carbide-Tipped Miller	Fine	6 in	30	216	6
Carbide-Tipped Miller	Medium	10 in	36	174	6
Carbide-Tipped Miller	Medium	8 in	30	210	6
Carbide-Tipped Miller	Medium	6 in	24	252	6
Carbide-Tipped Miller	Course	10 in	30	210	6
Carbide-Tipped Miller	Course	8 in	24	252	6
Carbide-Tipped Miller	Course	6 in	18	294	6
Full-Carbide Miller			1		
Full-Carbide Miller	Fine	10 in	42	156	6
Full-Carbide Miller	Fine	8 in	36	192	6
Full-Carbide Miller	Fine	6 in	30	228	6
Full-Carbide Miller	Medium	10 in	36	192	6
Full-Carbide Miller	Medium	8 in	30	228	6
Full-Carbide Miller	Medium	6 in	24	264	6
Full-Carbide Miller	Course	10 in	30	228	6
Full-Carbide Miller	Course	8 in	24	264	6
Full-Carbide Miller	Course	6 in	18	300	6
Carbide Pick			1		
Carbide Pick	Course	10 in			6

## PRO/HP DRUM COMPONENTS

Part Number
19A415
17W991
17W983
17W989

Description
Spacer - Pro/HP Drum
Shaft - Pro/HP Drum
End Plate - Pro/HP Drum
Bare Drum (includes Arbor, Shafts, End Plates, and Fasteners)

# LAZERVAC VACUUMS

## 230, 330, AND 550

When used in conjunction with the GrindLazer family of products, Graco's LazerVac Systems reduce airborne silica dust and help meet OSHA's safety requirement for airborne silica dust. \*Available in electric 110/220 volt in the LazerVac 230 and 330 models, as well as a high-pressure Honda Powered System in the LazerVac 550.

### SAFER JOBSITES

#### OSHA-Compliant Filtration\*

- Removes silica dust, resulting in a safer environment

### REDUCED FILTER CLOGGING

#### Auto-Filter Cleaning

- Separate motor operates dual paddles, which knock down the debris from the filter while you work — preventing filter clogs

### MORE UPTIME

#### Toolless Filter Design

- Allows for quick filter change-out while on the job

### REDUCED SILICA DUST

#### Longopac Bag System (LazerVac 550 only)

- Continuous dust containment means less exposure to silica dust
- Large capacity for more run time, less downtime



60% more vacuum pressure when compared to LazerVac 230

\*LazerVac vacuums include a filter-cleaning mechanism and meet 99% efficiency requirement of OSHA 1926.1153 Table 1 for outdoor use with walk-behind milling machines and floor grinders. LazerVac vacuums include a filter-cleaning mechanism and can meet OSHA 1926.1153 Table 1 requirement of 25 CFM minimum per inch of grinder wheel for non-mortar handhelds.

LAZERVAC VACUUMS	PART #
LazerVac 230	25M858
LazerVac 330	25B026
LazerVac 550	25M860

LAZERVAC ACCESSORIES	PART #
Bags for LazerVac 230/330 (20 pack)	17X695
Longopac Bag for LazerVac 550 (20 m long)	17W295
Filter for LazerVac 230/330	17X185
Filter Bags for LazerVac 550 (set of 7)	17X238
Standard Secondary Filter for LazerVac 550 (set of 2)	17X247
HEPA Secondary Filter for LazerVac 550 (set of 2)	17Y254

# CYCLONE SEPARATORS

## 20 AND 32

Add one of Graco's Cyclone Separators in-line with the LazerVac to collect the larger debris prior to getting to the vacuum filter — greatly extending the time between filter changes.



*Recommended for use with the LazerVac 230 and LazerVac 330*



*Recommended for use with the LazerVac 550*

### REDUCED FILTER CLOGGING

#### Cyclone Design

- Removes large debris before it gets to the vacuum filter, reducing filter clogging, which allows you to work longer
- No maintenance design — just empty canister when it is full

### LONGER RUN TIME

#### Large Capacity

- Choose 20 gallon or 32 gallon — depending on your job

### JOBSITE READY

#### All-Steel Construction

- Heavy-duty design will stand up to the harsh jobsite environment

#### LAZERVAC AND CYCLONE HOSES

	PART #
Standard Vacuum Hose (30 ft)	17X156
High-Temp Vacuum Hose (30 ft)	17X704
Separator/Vacuum Connection Hose (5 ft)	17X693

#### CYCLONE SEPARATORS

	PART #
Cyclone 20	25M861
Cyclone 32	25M862



# Unique<sup>®</sup>

## Paving Materials Corporation



UPM High-performance cold-mix asphalt repair material permanently repairs potholes and works in any kind of weather conditions. Wet weather doesn't affect the integrity of UPM mix and won't strip like most cold mixes. You won't have to go back again and again to re-fill the same holes. Available at Alpine in both Spring and Winter formulas.

# Bon<sup>®</sup>

Innovation. Value & Service since 1958

ROAD  
CLOSED  
AHEAD

YOUR  
SPEED

ASPHALT  
RESURFACER

ASPHALT  
RESURFACER

REJUVIT

LIQUID  
CONCRETE  
SEALER

LIQUID  
CONCRETE  
SEALER

Offering more solutions than just superior cold mix!



For more information  
 on our full line of  
 products, contact

**Customer Service**  
**800-441-4880**

15

**UNIQUE<sup>®</sup>**  
**CONCRETE**  
**SEALER**

Seals concrete surfaces  
 and protects from  
 de-icing chemicals.

14

**UNIQUE's**  
**POSTCRETE**  
**GROUT/WS<sup>®</sup>**  
HYDRAULIC CEMENT

Very fast concrete solution  
 for setting ornamental and  
 ADA railings in concrete.

13

**UNIQUE<sup>®</sup>**  
**OVERHEAD**  
**VERTICAL**  
**REPAIR**

Exceptional no sag durable  
 solution for trowel applied  
 vertical and overhead repairs.

12

**UNIQUE<sup>®</sup>**  
**HIGH**  
**PERFORMING**  
**FAST SET**

Fast same day  
 cast-in-place repair  
 trowel applied surface



**ANCE**  
**ET** MORTAR

Durable repair or a solution.

11

**UNIQUE®**  
**CONCRETE**  
**POURABLE**  
**CRACK FILLER**

Gray color crack and joint filler that skins within an hour. Long term durability & easy to apply.

10

**REJUVIT®**  
Concrete Resurfacer

Durable traffic bearing coating for concrete surfaces applied tight to 1/4" thick. Excellent for pitted surfaces.

1



Asphalt patching material that outlasts the surrounding pavement.

2

**KOLD-FLO®**  
POURABLE CRACK FILLER

Ideal for filling and sealing cracks in roads, pavements, driveways, parking lots and other asphalt or concrete surfaces.

3



Premium asphalt-based sealer without odors and health/environmental concerns. Ideal for older pavement and general upkeep.

4

**UNIQUE®**  
**FLEXICRETE®**  
XP POLYMER MODIFIED MORTAR

User-friendly durable repair product that is trowel applied for various repair applications, skin to 3" deep.

5

**UNIQUE®**  
**HIGHWAY**  
**DOT** FAST SETTING CONCRETE MIX

Fast strength gain durable concrete mix for repairs 2" to 8" deep.

6

**UNIQUE®**  
**ASPHALT**  
**RESURFACER**

Durable traffic bearing coating applied tight to 1/4" thick. Great for alligator crack areas.

7

**RAVEL SEAL®**  
PAVEMENT PRESERVATION EMULSION

Preserves and rejuvenates the life of newer existing pavement, roads and streets that are just beginning to show deterioration.

8

**KWIK-LOK®**  
PAVEMENT PRIMER

Grabs and seals oil spots on asphalt and concrete surfaces—prior to sealing.

9



Designed for smaller, repair needs. Provides intricate coverage of narrow, complex asphalt and concrete cracks.



## SPECIFICATION FOR 600 LB THERMOPLASTIC PREMELTER

"QUALITY EQUIPMENT FOR PROFESSIONALS"

5500 Adolfo Road, Camarillo, CA 93012  
805-388-5575 Tel 805-388-5560 Fax  
sales@dispensingtech.com

### GENERAL

The intent of this specification is to describe the minimum requirements for 600 lb capacity thermoplastic pre-melting system. This unit shall conform to all standards for thermoplastic equipment, including but not limited to, continuous agitation. The system shall have an electronic temperature monitoring system with digital display for accurate control and monitoring of the material. The system shall be equipped with a manually controlled slide valve that provides positive shutoff of the thermoplastic material. Unit shall be delivered ready for use with the addition of thermoplastic material.

### MATERIAL CAPACITY

Unit shall be capable of heating 600 lbs. of thermoplastic material with a specific gravity of 2.0 to a temperature of 425° F from an ambient temperature of 50° F. Capacity is calculated when filling 5 inches from the top of melter with a specific gravity of 2.0 minimum.

### MELTING TANK

This tank shall be of all welded steel construction. Tank shall be round. Bottom of tank shall be ¼ inch thick steel minimum. It shall be equipped with a flame shield, which prevents direct contact between the flame and the bottom of the kettle. Tank shall be LP fired using an impinged jet type burner with an output of 140,000 BTU/HR. Dimensions of the melter shall be 24" ID. X 24" deep.

### LOADING HATCH

The melter fill hatch shall be of adequate size to load standard 50 lb. bags of thermoplastic material. Lid shall be designed to minimize the possibly of material splashing back at operator. A locking pin shall be provided to securely lock melter lid while transporting.

### AGITATOR

Melter shall be equipped with a continuous, full sweep hydraulic agitation system to prevent filler from falling out of suspension and to speed the melting rate of the material. Agitator shall rotate in either direction and will have a manual control valve with an open center position and detented positions too hold in the valve in either clockwise or counter-clockwise direction.

### TEMPERATURE INDICATION

The melter applicator shall have digital electronic temperature controller that will automatically regulate the material temperature by cycling the propane valve on or off and automatically providing spark ignition to the burner at the same time. If abnormal loss of flame is sensed, the system will automatically shut down and require cycling the on/off switch to re-light. The controls shall have individual digital readouts with 4 characters display for the material. The material controller shall control the burner ignition automatically up to a temperature of 425 deg F.

### CONTROLS

Hydraulic system shall be adjustable from 500 to 1000 psi. System is preset at the factory for 500 psi. A Gas Control Module shall control melting tank temperature and gas burner ignition to a maximum temperature of 425 deg F. Module shall include a 12 VDC gas ignition system for lighting burner automatically and a 12 VDC solenoid valve to control gas flow. Module shall include on-off switch, and panel light to indicate system status and a type J thermocouple to sense material temperature. It shall also include a safety circuit that senses loss of flame.

### ENGINE

Must be CARB and EPA approved to current standards as of shipment date.

6.5 HP vanguard engine

Converted for propane operation

Electric start with battery shall be standard

High efficiency air-cooling fan

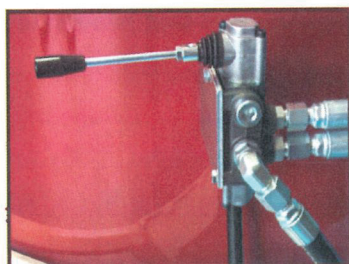
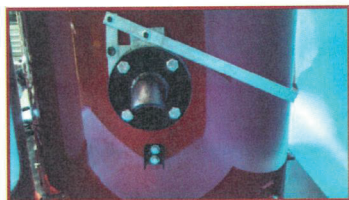
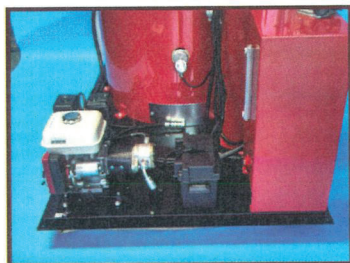
Optimum engine speed is preset at the factory to properly power the hydraulic system

All appurtenances required for operation shall be included

Vacuum operated propane safety shutoff system in the event the engine stops running



*Dispensing Technology Corporation*



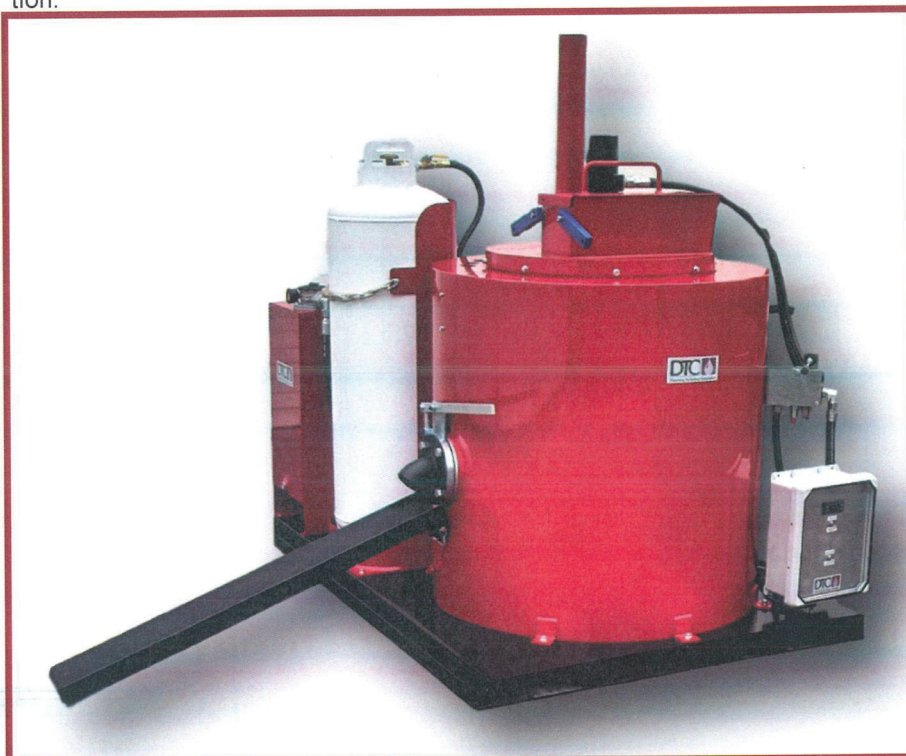
*For More Information*

**1-800-529-7733**

**1-805-388-5575**

## **PM-650 THERMOPLASTIC PREMELTER**

Dispensing Technology is pleased to present the PM-650 Thermoplastic Premelter. This versatile, heavy duty compact Premelter is skid mounted and totally self contained. Just add fuel and material and you are ready for production.



It is equipped with a 6.5 hp Vanguard engine that is converted to run on propane. It is certified for and meets current EPA and CARB regulations for small off road engines. The engine is equipped with a low oil alert system that stops the engine in the event the oil level is run too low.

The engine drives a hydraulic pump that supplies hydraulic fluid to turn the lid mounted, full sweep agitator. Unit is supplied with hydraulic reservoir, filter, pump and a four way hydraulic valve. The four way valve allows the operator to activate the agitator clockwise or counter-clockwise as desired to provide homogenous heating and aid in faster melt rate.

Temperature control box has a digital electronic thermostat for precise temperature control. Each unit is fitted with an over temperature safety switch and redundant propane valve that activates if the material exceeds the safety switch setpoint.

An anti-splash fill port is standard equipment for operator safety.

[Sales@dispensingtech.com](mailto:Sales@dispensingtech.com)

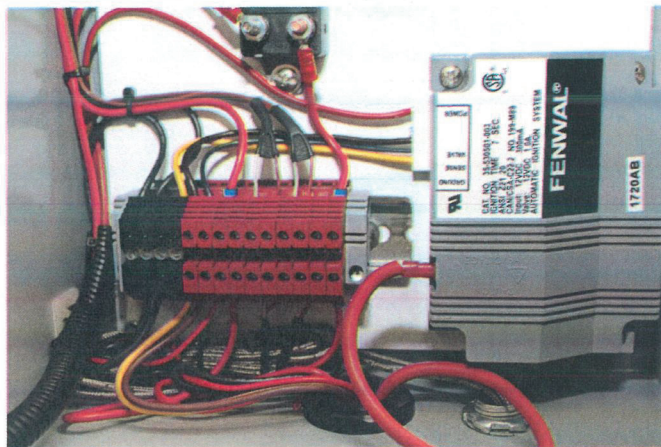
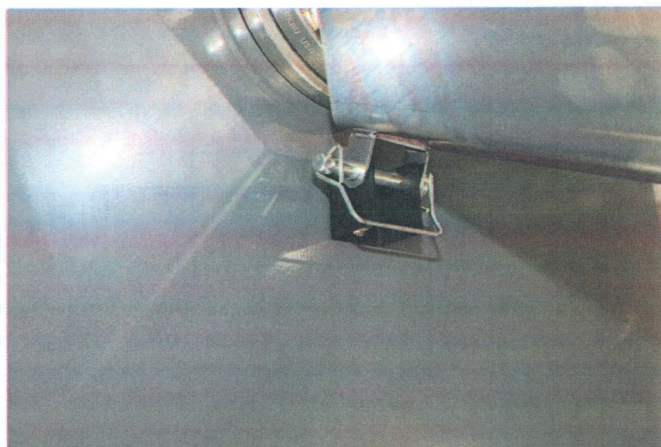
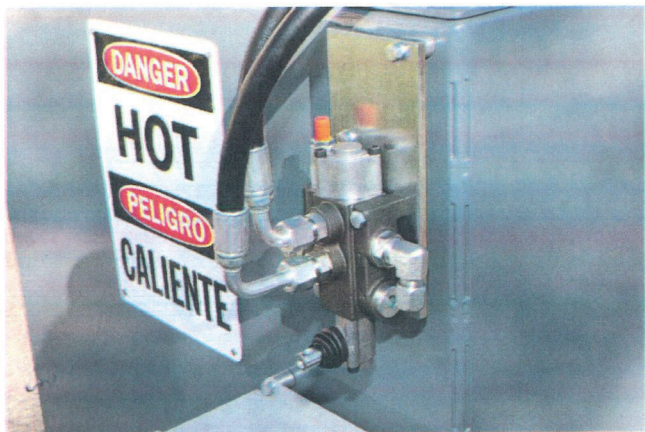


**Dispensing Technology Corporation**

5500 Adolfo Rd. Camarillo, CA 93012 805-388-5575 Tel 805-388-5560 Fax [www.dispensingtech.com](http://www.dispensingtech.com)



**Dispensing Technology Corporation**



The TPM 1200 Thermoplastic Premelting System is available with many accessories and options. They are available as stand alone units as shown, with modular power packs or as fully integrated systems with single or dual melters and self-contained power units.

Give us a call to discuss your specific needs.

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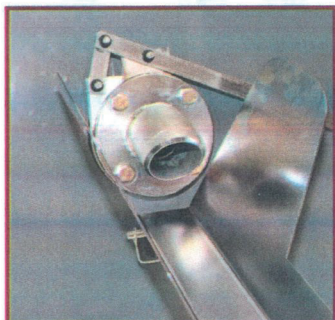


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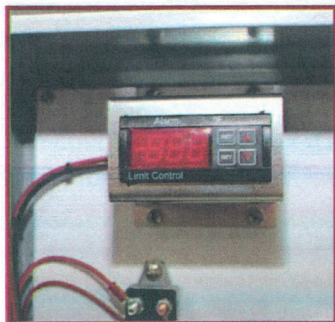
For More Information  
**1-800-529-7733**  
**1-805-388-5575**



Digital temperature controllers with automatic spark ignition systems. Burners are ignited with the flip of a switch.



Heavy duty knife valve does not require a torch to dispense. Hardened steel shutoff plate.



Digital over-temperature cutout circuit standard. Stops all propane flow if set temperature is exceeded

## **TPM 800 & 1200** **THERMOPLASTIC PREMELTING SYSTEM**

The TPM 800 & 1200 Thermoplastic Premelters offer the ability to adapt to many transport options. TPM 1200 Systems are available in many configurations, and single or dual configuration. Propane fired hydraulic power pack with 9hp engine and digital over temperature control combine to keep this compact and safe for the operator.



[Sales@dispensingtech.com](mailto:Sales@dispensingtech.com)

**Dispensing Technology Corporation**

5500 Adolfo Rd. Camarillo, CA 93012 805-388-5575 Tel 805-388-5560 Fax [www.dispensingtech.com](http://www.dispensingtech.com)



# Pavement Repair and Maintenance Materials

**UPM Cold Patch in winter and spring/fall mixes. Each designed for that specific time of year and type of repair. Crack fill, crack seal, Quick Joint material along with Henry DuroFlex crack filler, loop sealant and bituminous marker adhesive. All in stock and ready for your project.**



## Hand Tools

**Asphalt Lutes, 1 & 2 sided, smooth and serrated blades.**

**All replacement parts available, handles, blades, hardware, shovels, tampers, digging bars along with asphalt uv squeegees.**

**Replacement rubber blades for squeegees. Crack filler pots, both with and without wheels.**

**All in stock.**



# ANSI/ISEA Workzone Safety Gear



**Storm Stopper Rainwear**



**High Vis Parka Jackets**



**Class II Vests**



**Class III Vests**



**Ultra-Cool Mesh Pants**

## School Zone Safety Supplies



**School Zone Vest**



**School Zone Stop Flag**



**Cone Signs**

**School Zone Signs**





**Fabulous Sign Crew**

## **RENTAL EQUIPMENT**

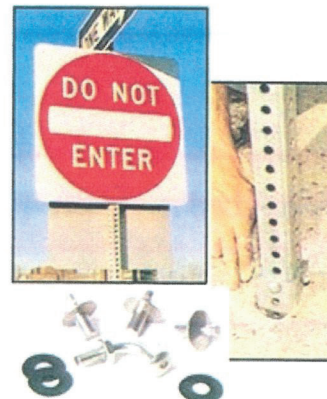
Graco 3900 Striper  
MMA Cart  
Bensink Rotary Broom  
Pressure Washer  
Message Board

\* AUTHORIZED GRACO REPAIR SHOP \*














# **Traffic Signs & Stencils**

**Here at Alpine Products, Inc. we stock many of your common street/parking lot signs & stencils. We also make custom signs, graphics, banners and stencils for all of your signing/marketing needs.**

**We have the best mounting systems and anchors for our Telespar Metal Posts and Signs.**













# Traffic Signs

 R1-1	 R1-3	 R1-4	 R1-2	 R1-2a	 R1-5	 R1-5a	 R1-6	 R1-6a	 R2-1
 R2-6	 R3-1	 R3-2	 R3-3	 R3-4	 R3-5L	 R3-5R	 R3-5a	 R3-6L	 R3-6R
 R3-7L	 R3-7R	 R3-8	 R3-8a	 R3-8b	 R3-9a	 R3-17	 R3-17a	 R3-17b	 R3-18































# Warning Signs

 W1-1L	 W1-2L	 W1-3L	 W1-4L	 W1-5L	 W1-6	 W1-7	 W1-8L	 W1-10	 W1-11
 W1-13	 W1-15	 W2-1	 W2-2	 W2-3	 W2-4	 W2-5	 W2-6	 W16-12p	 W3-1

## SCHOOL SIGNS

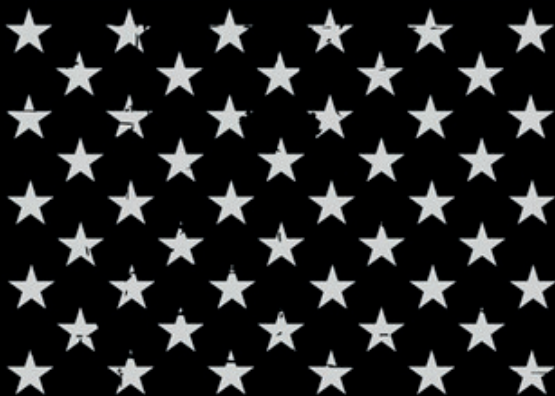
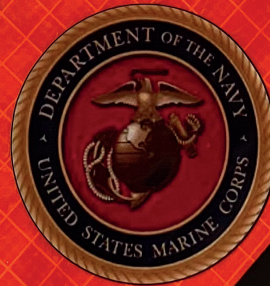
 S1-1	 S3-1	 S4-3	 R2-1	 S4-2	 S4-4	 S4-1	 S5-1	 S4-5	 S5-2
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## CONSTRUCTION SIGNS

 W20-1	 W20-2	 W20-3	 W20-4	 W20-5L	 W20-5R	 W20-5a	 W20-7	 W20-7a	 W21-1
 W21-1a	 W21-2	 W21-3	 W21-5	 W21-5aL	 W21-5aR	 W21-5bL	 W21-5bR	 W21-6	 W21-7
 W22-1	 W22-3	 W23-1	 W24-1L	 W24-1aL	 W24-1bL	 G20-1	 G20-2	 G20-4	 Stop/Slow Paddles



# Alpine Products, Inc. Supports our Troops



**UNITED WE STAND**