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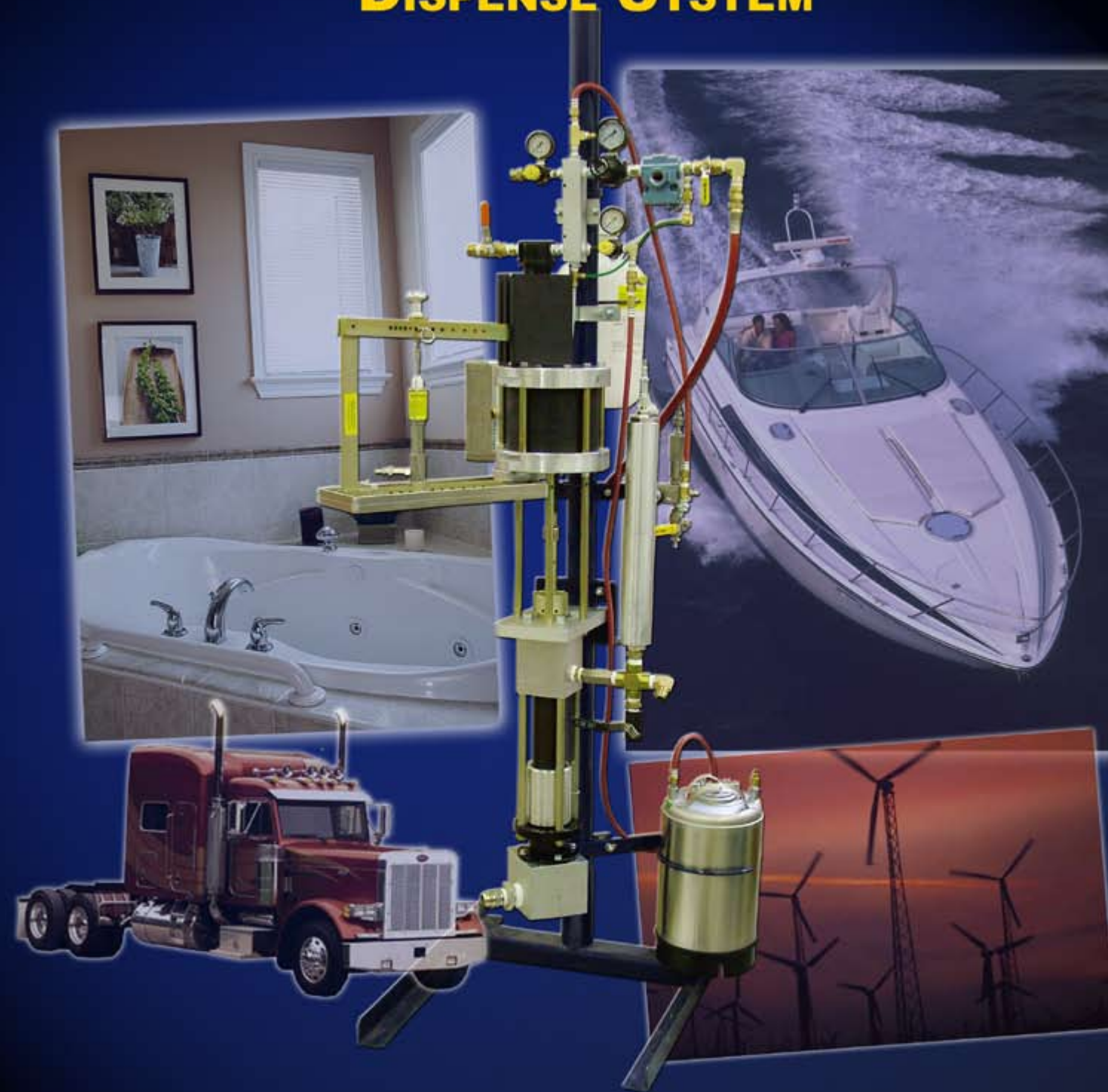
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ULTRAMAX™ SYNTACTIC MATERIALS DISPENSE SYSTEM



DISPENSING SPRAYABLE SYNTACTIC MATERIALS FOR CORE REPLACEMENTS AND BARRIER COATS HAS NEVER BEEN EASIER

PRECISION COUNTS

Magnum Venus Plastech is pleased to introduce a system specifically designed to dispense sprayable syntactic materials for core replacement and barrier coats. This system is the only one that can handle low density syntactics with compressible spheres, and internally mix them with even catalyzation and thorough mix.

The UltraMAX™ Chop Check (shovel pump) Mix/Meter System for Syntactic Materials was originally designed as a putty or adhesive dispensing system mounted onto a 55-gallon ram plunger. By removing the ram plunger, and replacing it with a bulk feed pump inlet housing, the system is able to provide pressure feeding through a transfer pump. The advantage to using this unique system is the minimization of sphere compression at the pump's top-end reversal, as the shovel pre-loads the materials resulting in a more uniform delivery to the spray tip.

Syntactic materials in barrier coats and core replacement contain spheres which are compressible once under pressure. The challenge with standard reciprocating ball check pumps is "hot spots" that develop once the materials are first put under pressure at the top pump reversal. Because the MEKP slave pump is linked to the resin pump, the end result at the top of the pump reversal ("hot spot") is a lack of the syntactic material during sphere compression. The higher the sphere content, and/or fluid pressures, the greater the sphere compression or "hot spot".

Another advantage with this system is that it is built utilizing quick-change components, which allows for little or no down time. The major components change out in 10 minutes or less.



CHOP CHECK FLUID SECTION

The Chop Check fluid section provides only the amount of material you need, reducing material waste normally encountered with hand mixing. No more triggering into the bucket waiting for proper catalyzation as is necessary with other machines. The Chop Check fluid section features hardened nitrotech rods and a hardened cylinder, reducing wear and tear on one of the more expensive components on any system.



FULLY INTEGRATED SYSTEM

Transfer Pump: The 6:1 Transfer Pump is ideal for the low-pressure transfer of fluids from one container to another, or pressure feeding of nearby pumping equipment. Low-to-medium viscosity fluids are easily handled with a minimum of pumping cycles to move a given amount of material at very low air consumption.

The pump incorporates the versatile VPH power head with its Rapid Access Design (R.A.D.), the look and efficiency of the UltraMAX™ pump, pilot valve operated by line-pressure allowing for quick reverse action and no reversal hesitation, a non-freeze muffler design, and much more.

Mixer: Utilizing a 3/4 horsepower air motor with a 25:1 gear ratio, this mixer is ideal for mixing high viscosity materials. A sealed gear box, sealed bearings, and synthetic lube for cooler running allow this mixer to continue running consistently with little maintenance.



INTERNAL MIX PRO GUN

Distributive Mixing

During operation, catalyst is injected into the center of the gun's mix chamber while resin is forced into the chamber through several holes surrounding the catalyst port. This unique concentric pattern creates a balanced flow, and blends materials efficiently and thoroughly. Distributive Mixing actually pre-mixes catalyst and resin before they pass through the turbulent mixing device. The results are significant material savings, improved quality control and reduced styrene fuming for a clean, safe work environment.



Air-actuated Trigger

The Pro Gun's air-actuated trigger makes it one of the easiest guns to use. Pulling the trigger gently toward the operator opens an air valve to spray the material. Because it is highly responsive to even light force, the trigger provides the operator with enough control to spray parts of complex shape and small size.

Advanced Rotary Valve

The Pro Gun™ replaces manually adjusted trigger needles with a stainless steel rotary rod that maintains consistent volumes of resin and catalyst. Built into the gun block, the rod turns during operation to expose two holes drilled in the center. Resin and catalyst then flow simultaneously through the holes and through the distribution ring.

Versatility

Modular construction enhances the Pro Gun's versatility, and simplifies disassembly for cleaning and maintenance. The removable mix housing allows rebuilding a "set-up" gun in minutes. The gun's push-button flush system is also easy on the operator. Material flows directly through the resin port to the mix chamber during flushing, leaving no residual resin to get in "dead" spots".