

MACHINE PANEL RETROFITS
OPTIONS



YES	NO	
		MAIN POWER DISCONNECT
		HOUR METER
		TURNTABLE JOG
		7 DAY CLOCK BYPASS SWITCH
		RINSE SYSTEM- Line pressure type
		RINSE PUMP
		CHEMICAL INJECTOR PUMP
		OIL SKIMMER (UNHEATED)
		OIL SKIMMER (HEATED)
		SINGLE BALL TYPE FLOAT SYSTEM
		HI LIMIT FOR GAS HEAT
		HAND RINSE
		CLEAN MACHINE
		LOOP FILTER (MOTOR DRIVEN)
		MAIN PUMP AMMETER
		BOOSTER PUMP AMMETER
		BOTTOM SCRAPER
		MINI SURFACE SCRAPER
		MAIN PUMP Specify horsepower
		SUCTION/BOOSTER PUMP specify horsepower
		HEAT TYPE <input type="checkbox"/> GAS <input type="checkbox"/> ELECTRIC <input type="checkbox"/> STEam

HEIGHT	WIDTH	
		EXISTING PANEL SIZE
SPECIAL PAINT COLOR		
FLOAT SYSTEM TYPE		

Each MART Power Washer is configured and built to order. As a result each control systems while using standardized logic has a unique set of components. Our replacement control systems have the latest and greatly improved control logic for machine functions and safety. This logic has been developed over the last 12 years and has proven highly reliable and trouble free. All components are heavy duty industrial strength products that have extensive field testing and life expectancy.

All our systems have all UL listed components and can meet NFPA-79 Electrical Standard for Industrial Machinery the latest edition.

The unit would come completely assembled, painted, wired and ready for installation with complete wiring and panel layout diagrams it can be easily installed.

Some of the Features of our replacement enclosures are:

7-DAY PROGRAMMABLE CLOCK TIMER: Set Timer to preheat Power Washer during normal wash days. Has Skip-a-Day feature with override to operate Power Washer on normal off days. Provides automatic timed operation of optional Oil Skimmer.

ADJUSTABLE THERMOSTAT & CONTROLLER: Automatically maintains solution-operating temperature.

WASH CYCLE TIMER: Heavy Duty Industrial Eagle Signal timer with large easy to change adjustment: 0-30 minutes in 1-minute increments. Automatically resets to last wash time setting.

STOP: Prominently mounted red Stop Button, immediately shuts down cleaning cycle functions when depressed.

SAFETY DOOR INTERLOCK: Automatically shuts down Cleaning Cycle when Loading Door is open. Has interlock relay for fault detection of safety circuit, and a shield to prevent accidental operation and attempts to defeat switch. For added safety, Loading Door must open and close to reset Safety Lock.

GROUNDING LUG mounted in machine electrical control enclosure: MART provides an attachment point for proper safety grounding of the Power Washer. Each motor has a separate ground wire pulled through conduit and attached to the electrical enclosure back panel to ensure a positive earth ground without relying on the machine structure to supply the grounding path.

ENCLOSURES meet NEMA 12 Dust tight Oil tight requirements. All wiring is Color coded or numbered THHN 14 gauge for control circuit. Properly sized power conductors per NEC 70.

ALL FUSING rated at 200,000 amp interrupt capability: MART protects conductors and components in the event of short circuit to ground. Other fuse types may not provide sufficient interrupt capability. If the power system of your building has a maximum current capacity that is greater than the fuse interrupt capacity, the fuse could open but the components downstream from the fuse, such as the motor starter, may still be damaged.

OIL TIGHT-TYPE SELECTOR SWITCHES, indicating lights, and pushbuttons: Provides reliable operation under the harshest environment.

AUTOMATIC WATER LEVEL SENSOR (Only available with Single ball float systems): Electronic System with large diameter Stainless Steel Float Ball reads solution levels.

- **OVERFLOW PROTECTION:** Shuts off water fill to prevent flooding of shop.
- **LOW SOLUTION SHUTOFF:** If incoming fresh water service is interrupted, disables heat source to reduce fire hazard, and disables Pump System to prevent damage.
- **AUTOMATIC WATER REFILL:** Maintains solution at nominal operating level.



Patented Water Level Control System reads and controls Low and Hi Water levels to prevent pump and heat operation in case of low water condition, and prevent overflow of solution onto shop floor in case of high water. Also provides Rinse Bank to ensure complete rinsing with each Auto Rinse Cycle.

Why is ANSI/NFPA CODE COMPLIANCE important?

Meeting these Codes is even more imperative for washing machines than other shop equipment because of the harsh operating environment of a cabinet-style washer.

A washing machine has high voltage electric power and hot alkaline or caustic solution, and the operators and employees work in close proximity to the equipment. Further increasing the potential for hazards are those washing machines that are heated with natural gas or propane.

WHY THE ANSI/NFPA CODES WERE WRITTEN. Studies by machine tool builders, manufacturers of control equipment, and Underwriters Laboratories Inc., concluded that "... peculiar conditions existed with machine shop equipment that required additional " { man safeguards and other devices not "contemplated by the National Electric Code (NEC)." NFPA 79 was written to overcome the shortcomings of the NEC.

The American National Standards Institute and the National Fire Protection Association (ANSI/NFPA) Codes provide specific requirements that render machinery safe and reliable by minimizing or eliminating such machinery hazards as:

Failure or faults in the electrical equipment the cause electrical shock or electrical fire;
 malfunction of the machine due to failures or faults in the control system of power circuits;
 malfunction of the machine due to disturbances or disruptions in the external power sources;
 and the dangers of electrical interferences, stored energy, and audible noise.