

Application Story

Studying Water Science Comes From a Great Thirst for Knowledge



It's amazing what NLB Corp. can do with a little water, diesel fuel and electricity. Today's green industries are finding new ways to clean, reuse, repair structures, containment tanks and process pipes rather than replace and scrap them when they rust or corrode.

Oguras powerful 1000 foot pound clutch, the MMC-140E-04, has gained a new following in the professional high pressure water pump industry. These clutches can be used with engines and pumps up to 300 Hp and 40,000 psi for high powered cleaning and demolition work.

Historically, these trailer mounted pressure systems used large heavy mechanical clutches with Pneumatic or hand lever activated clutches to connect the large diesel engines to their triplex or quadruplex convertible water jetting pumps. These "state of the art"

pumps can blast away damaged concrete from buildings or roadways yet leave their structural rebar sparking and in place. This newly exposed rebar is clean, undamaged, and ready for fresh concrete.

Using only water and reusing rebar in demolition is as GREEN as it gets. This system eliminates the caustic airborne dust normally associated with demolition. Keeping workers safe from toxic airborne contaminants is a must in today's busy workplaces.

Another feature of using Oguras MMC-140 electric clutch is the ability to dry separate the engines drive system from the pump with a simple quick press of a button on the operators lance, saving water and keeping the workplace dryer and safer than previous on-off technologies. These 12 VDC clutches incorporate multi pole technology and use a bi-

directional return spring which works well with the high transient torque spikes present during diesel combustion. Dual oversized ball bearings at both the input (field side) and output (hub side) insure thousands of hours of trouble free use. The oversized spline input drive and Spicer matched universal output coupling insure easy and positive torque transfer. The robust protective plating and stainless steel fasteners lead to many years of adjustment-free and corrosion-free service.

NLB has chosen Oguras high strength, highly reliable MMC clutches to improve an already innovative solution to the dirtiest and most dangerous of jobs.

For more on this patent pending application and a terrific video on this clutch in action, see here:

www.nlbcorp.com●



125 series diesel pumps to 145 HP



Ogura MMC 140 clutch



225 series diesel pumps to 350 HP