

10K Muffin Monster® Takes Over When Macerators Can't Cut It Schertz, Texas



The Cibolo Creek Municipal Authority (CCMA) created in 1971, provides regional wastewater services for the area northeast of San Antonio, Texas and serves the communities of Schertz, Cibolo, Selma, Randolph Air Force Base and portions of surrounding towns. The overall system includes the gravity interceptor system, lift stations, force mains, a water reclamation plant, and a reclaimed water distribution system. In general, the gravity system follows the region's natural topography and drainage basins flowing to the Water Reclamation Plant which is rated for an annual average flow of 6 million gallons per day (977 m³/hr).

For many years, a water reclamation plant in Schertz successfully used six Penn Valley Double Disc Pumps for their primary sludge and scum applications. At their last expansion project, they added macerators in-line ahead of all the Double Disc Pumps to enhance their process and grind rags and debris. Since the installation of the macerators, they have suffered severe problems with plugging of the pump suction lines that led to frequent pump rebuilds. The facility was in dire need of a solution and fast. After years of frustration in dealing with this problem, they turned to the 10K Muffin Monster. "I always heard good things about the Muffin Monster brand," said the Maintenance Superintendent.

PROBLEM: *Excessive daily macerators clogs*

APPLICATION: *Sludge Pumping*

SOLUTION: *In-Line 10K Muffin Monster®*

According to the Plant Maintenance Superintendent, "It's been a blessing for the last six months" having installed the In-Line 10K Muffin Monster.

With their previous macerators, the plant had to interrupt the system 2 – 3 times a day to cut through rags, hair and debris. This would then wear down the blades faster, requiring constant replacement. With two pumps on each system, the cleanup and pump rebuilding was time consuming. The lack of durability and strength of the macerators forced the staff to do a complete pump rebuild every two years. This had become the norm at this facility for years.

The 10K Muffin Monster now plays an integral role in this water reclamation plant's system by grinding the primary sludge and debris that is pumped to the digesters. Its efficiency has proven so great the plant no longer keeps all six pumps running. They have



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installed three In-Line 10K Muffin Monsters and are now grinding more reliably with less energy. There's no need to rebuild or stop sludge pumping to manually cut away the debris.

When asked if he would recommend the 10K Muffin Monster the Maintenance Superintendent said, "Definitely! There are multiple products on the market but the 10K Muffin Monster fit our needs." Their ultimate goal was to make their treatment plant more efficient, eliminate rebuilds and cut down on man hours. The In-Line 10K Muffin Monster has far exceeded their expectations.

The In-Line 10K Muffin Monster is a compact grinder, tough on solids in sludge applications. It fits into areas with limited space requirements while still providing the necessary power for downstream protection. This simplified design makes it the best cost solution to your sludge pumping problems. The 10K Muffin Monster also saves on electrical costs by using half the energy needed for high speed macerators.

In-Line 10K Muffin Monster is designed for 4" (100mm) and 6" (150mm) pipelines and uses an 8" (203mm) cutter stack to shred solids, thus eliminating rags and other debris from blocking sludge pumps, heat exchangers, centrifuges and other equipment. The In-Line 10K Muffin Monster uses a 2 HP (1.5kW) gear motor (29:1) and has a maximum flow up to 55 gpm (35 l/s). Other motor options include a 3 HP (2.7kW) gear motor, or JWC's exclusive immersible motor.

Since its founding in 1973, JWC Environmental has become a world leader in solids reduction and removal for the wastewater industry with its Muffin Monster grinders and Monster Separation Systems for screening, compaction and washing. JWC also solves challenging size reduction and processing problems in commercial and industrial applications through its Monster Industrial division. JWC Environmental is headquartered in Costa Mesa, California, and has a global network of representatives, distributors and regional service centers to provide customer support. For more information, visit JWC Environmental at www.jwce.com.

