
MATTCO

Manufacturing Equipment for
the Oilfield Service Industry
Since 1947

Mattco Manufacturing, Inc.



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MATTCO Manufacturing, an independent manufacturer specializing in the oilfield service industry since 1947, provides a full array of products from custom engineered components to complete OEM solutions for many of the world's largest reciprocating pump and drawworks equipment companies.

MATTCO Manufacturing provides three main product brands: MATTCO, TTE and Bear. All products are proudly made in the USA and can be delivered with ASME, ABS, CRN, CE and DNV certifications.

MATTCO specializes in equipment for all makes and models of reciprocating pumps with operating pressures from 150 to 25,000 PSI including all manifolds, fluid ends, strainer crosses, fluid end parts and gaskets. In addition, MATTCO provides custom-tailored pulsation control for liquid, mud and slurry applications. Adapted from military technology used for over 20 years, MATTCO provides a maintenance-free suction stabilization and control manifold (U.S. Patent No. 7,621,728) that does not rely on a nitrogen pre-charged bladder or an over-pressurized centrifugal pump. For the discharge side, MATTCO provides an entire line of maintenance-free, pneumatic and combination dampeners (U.S. Patent No. D626,819). Taken as a system, MATTCO products improve both drilling efficiency and safety, reduce cost through reduced wear and tear on equipment, and notify the user of equipment problems in real-time before catastrophic failure occurs.

TTE specializes in XTRA-Life™ rims and discs for all manufacturers of drawworks. XTRA-Life™ rims and discs are produced with a special high-alloy material that greatly extends service life and brake-block life by resisting grooving, streaking and ribbing. Service histories show that TTE rims and discs last more than twice as long as non-hardened, Q&T and flame hardened products.

Bear specializes in instrumentation for all manufacturers of drawworks. The Bear Cat Automatic Driller provides for a consistent weight on the bit which directly results in an increased life span and reduced drilling cost. The Bear Cat Twin-Stop is the premier safety device that sets the brake to stop drawworks motion in both directions. It engages the drawworks brake automatically, in either direction, at pre-set points. As a result, it protects both the rotary floor and the crown block. All Bear products are extremely rugged and simple to install and operate.

With an engineering design team, a complete weld shop and a full array of manual and CNC machines, MATTCO Manufacturing provides a wide variety of design, manufacturing and refurbishment work for equipment up to 96" in diameter and 25,000 lbs. Call us today for your specific needs.

Mattco Fluid Ends and Strainer Crosses

Fluid Ends, Strainer Crosses, Suction and Discharge Manifolds



MATTCO specializes in equipment for all makes and models of reciprocating pumps with operating pressures from 150 to 25,000 PSI. All fluid ends, suction and discharge manifolds, strainer crosses, spools, fluid end parts and gaskets, flanges and couplings are supported. MATTCO duplex and triplex fluid ends are identical replacements for original equipment and accept standardized components and expendables. All fluid ends can be ordered with a premium autofrettage process which dramatically increases cross bore life. Many parts can be ordered with premium stainless steel construction or stainless inlays to ensure extremely long service life. Custom designs and ASME, ABS, CRN, CE and DNV certifications are available.

Bear Instruments

Backed by over 40 years of Bear's experience in the design and manufacturing of drilling instruments, the Bear Cat Automatic Driller and Twin-Stop are extremely rugged and simple to install and operate.



Bear Cat Automatic Driller

The Bear Cat Automatic Driller provides for a consistent weight on the bit which results in an increased life span and reduces drilling cost. It is 100% pneumatic and requires little maintenance.

Bear Cat Twin- Stop

The Bear Cat Twin-Stop is the premier safety device that sets the brake to stop the drawworks motion in both directions. It engages the drawwork's brake automatically, in either direction, at pre-set points. As a result, it protects both the rotary floor and the crown block.

TTE Brake Rims and Discs

TTE specializes in XTRA-Life™ rims and discs for all manufacturers of drawworks and many industrial applications. XTRA-Life™ rims and discs are produced with a special high-alloy material that greatly extends service life and extends brake-block life by resisting grooving, streaking and ribbing. Service histories show that TTE rims and discs last more than twice as long as non-hardened, Q&T and flame hardened products. Custom OEM designs and ASME, ABS, CRN, CE and DNV certifications are available.

Brake Rims, Rotors, Spacers and Drum Clutches



XTRA-Life™ Rim, Drum and Flange life can be further extended through an integrated water-cooling jacket which is offered in either a low-carbon or stainless steel. With up to a 2.5 million ft-lbs stopping capacity, XTRA-Life™ Disc and Rotor Life can be further extended through an integrated water-cooling cavity. All TTE products can be refurbished when necessary.

Pulsation Control Equipment

MATTCO provides custom tailored pulsation control for liquid, mud and slurry applications inclusive of all makes and models of reciprocating pumps for the oilfield service, forging plant, water purification, electrical power generation and many other industries. With designs ranging from 150 to 25,000 PSI, MATTCO eliminates 100% of the damaging harmonic resonance on both the suction and discharge sides of the pump. Installation of MATTCO's pulsation control products result in increased safety and system optimization allowing the pump to function at all designed operating speeds; reduces cost through wear and tear on equipment; and through MATTCO's partner White Rock Engineering Services (www.WRES.us), notifies the user of equipment problems in real-time before potential catastrophic failure occurs. Custom OEM designs and ASME, ABS, CRN, CE and DNV certifications are available.

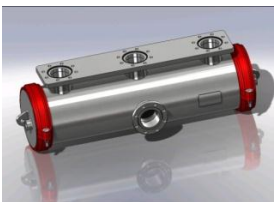
Suction Stabilization and Control

MATTCO Suction Stabilization and Control products are designed to stabilize the velocity variation of liquid, mud or slurry in a reciprocating pump's suction feed stream. Using a closed cell foam that does not utilize nitrogen pre-charging or an over-pressurized centrifugal pump, MATTCO's maintenance-free solution is currently the only method available to eliminate acceleration head loss between the suction feed system and the reciprocating pump. By reducing peak-to-peak hydraulic pressure variation to near zero: hydraulic resonance cannot occur in suction piping, the potential for pump cavitation is completely eliminated, each cylinder is guaranteed proper feeding so the pump can operate at full rated speed, and particulate matter will remain in suspension which protects against damaging uneven wear to suction pump valves. In many pump systems, acceleration head loss also directly results in piston cross head shock which can greatly shorten the service life of costly power-end components such as crankshafts and bearings.

Discharge Pulsation Control

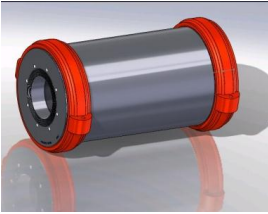
MATTCO Discharge Pulsation Dampeners are designed to stabilize the velocity variation of the liquid, mud or slurry for all makes and models of reciprocating pumps. MATTCO can nearly eliminate peak to peak pressure variations at all pump operating speeds. The elimination of pump and system dynamic responses directly results in increased safety, improved MWD signal processing and extended life of the pump and system components.

Cellular Suction Stabilizing Manifold (U.S. Patent No. 7,621,728)



MATTCO Cellular Suction Stabilizing Manifolds (U.S. Patent No. 7,621,728) are the premium solution for reciprocating pump acceleration head loss. Suction Stabilization and Control is optimized when the stabilizer is mounted directly to the intake of the pump. Used in place of a traditional intake manifold, MATTCO's solution is custom-tailored to each specific application and will be configured for simple and easy installation onto all makes and models of reciprocating pumps using standard bolting and API connections.

Cellular Suction Stabilizer



MATTCO Cellular Suction Stabilizers have been the best performing suction stabilizers for the drilling industry for many years. Using a flow through design, MATTCO's solution is tailored to respond to the specific volume and pressure requirements of the pump. The CSS is configured for simple and easy installation for all makes and models of reciprocating pumps using standard API connections.

Pneumatic Pulsation Dampeners



MATTCO Pneumatic Discharge Dampeners are available in both 10 gallon and 20 gallon versions ranging in operating pressure from 3,000 to 10,000 psi. Molded bladders are interchangeable with Hydril series K dampeners. The replaceable bottom plate connects to standard API flanges.

Maintenance-Free Pulsation Dampeners



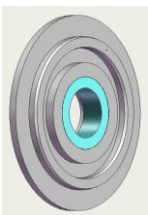
MATTCO Maintenance-Free Discharge Dampeners are available in all sizes from 5 to 160 gallons ranging in operating pressure from 200 to 25,000 psi. Each dampener is custom tailored to the specific volume and pressure requirements of the reciprocating pump and will be designed for any mounting configuration using standard API connections.

Combination Dampener (U.S. Patent No. D626,819)



MATTCO's Combination Discharge Dampener (U.S. Patent No. D626,819) offers the synergistic benefits of both the Maintenance-Free and Pneumatic Discharge Dampeners. The combination dampener includes a strainer on the outlet so it takes the place of one pneumatic dampener, one maintenance-free dampener and a strainer cross. As a result, performance is optimized while the weight and footprint are minimized.

Wave Blockers



MATTCO Wave Blockers eliminate up to 70% of the hydraulic resonance in discharge piping. They can be utilized in conjunction with MATTCO's Maintenance-Free Discharge Dampeners or the Wave Blockers can be ordered as a stand-alone solution for any piping that is experiencing hydraulic resonance. Designed with a proprietary ceramic insert, the wave blockers have a service life in excess of 5 years.



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