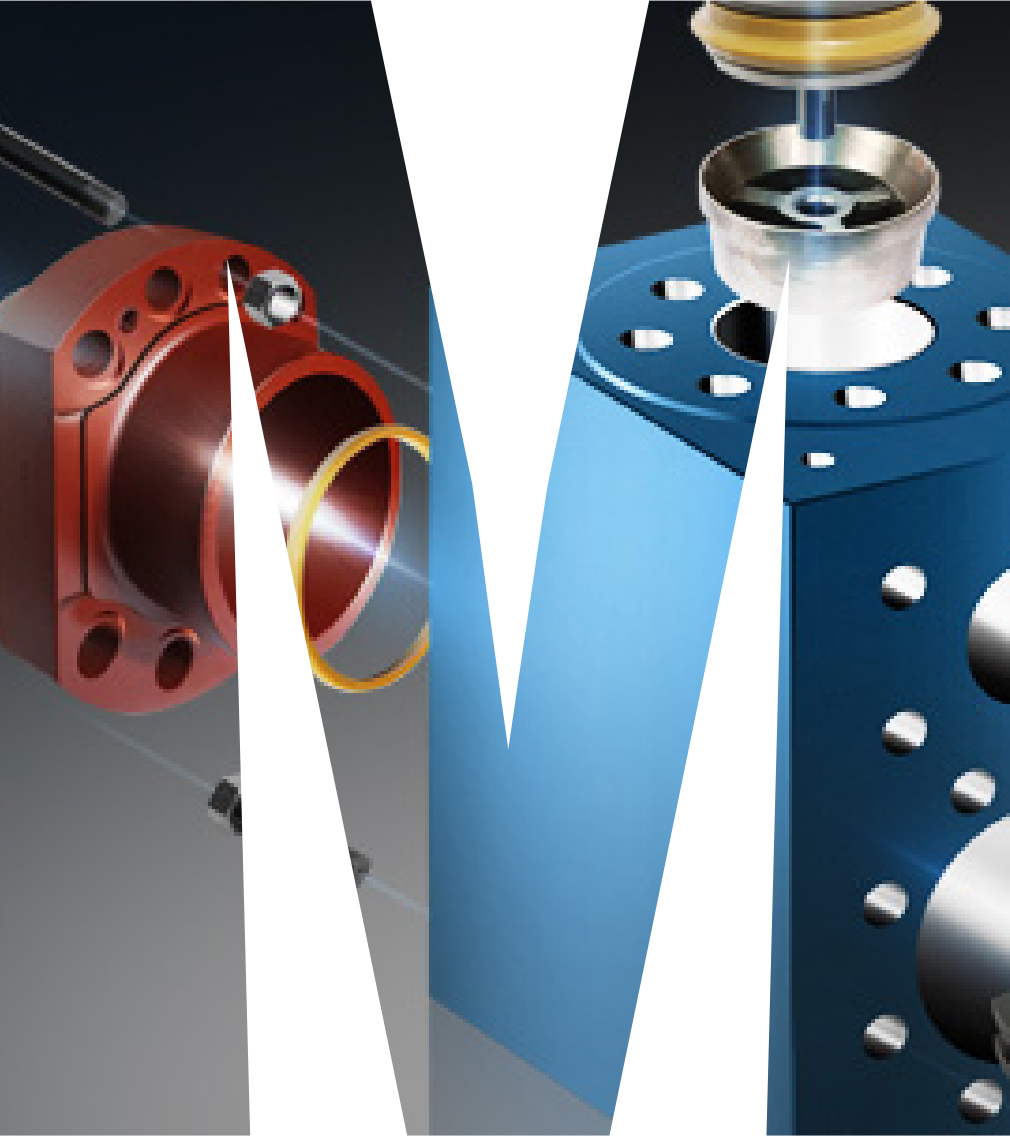




**MM AKSHELLS Inc.**



**MM AKSHELLS INC.**

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MM AKSHELLS INC.



SERVICE&QUALITY

# COMPANY

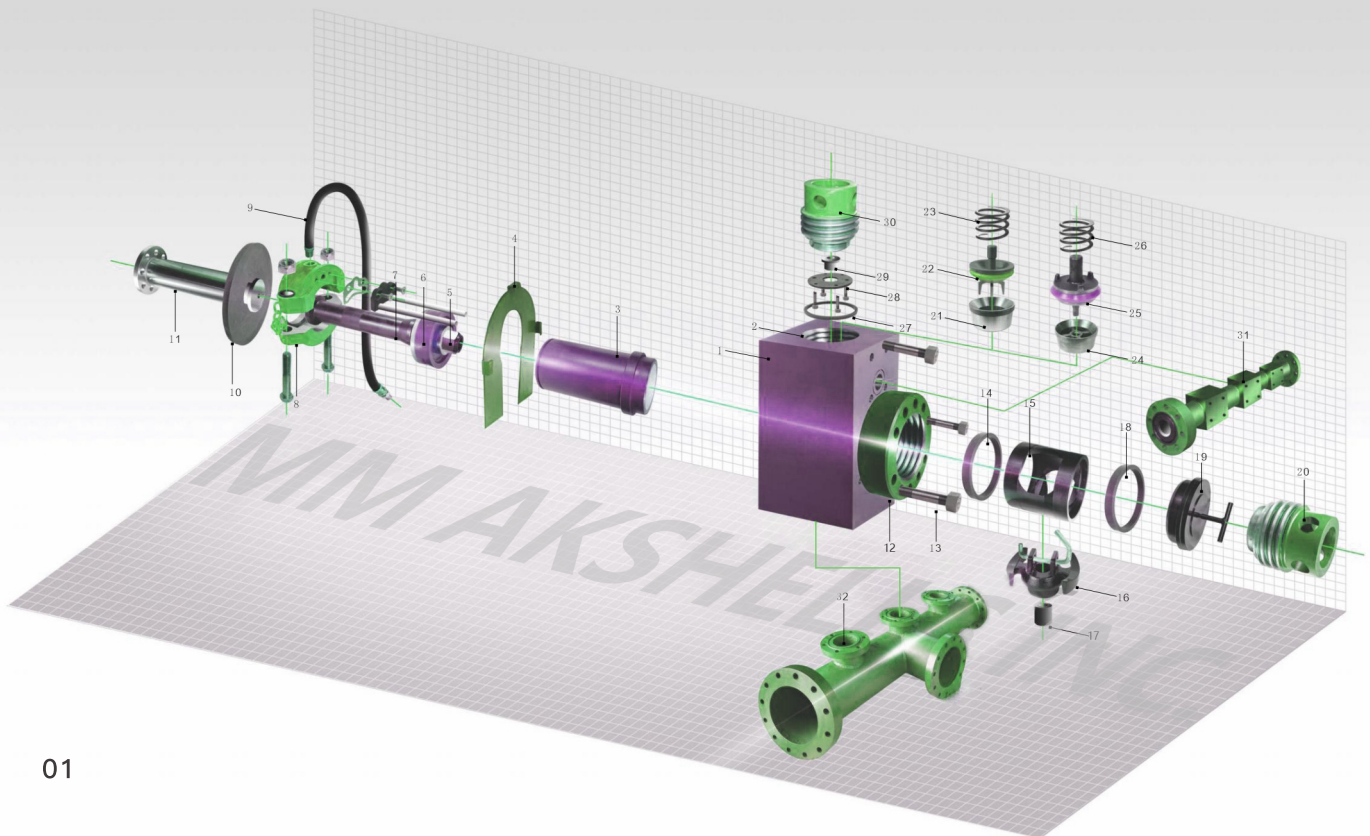
## MM AKSHELLS INC.

©MM AKSHELLS INC.(MMAK)is a high-quality manufacturer and distributor of various mud pump replacements. We have more than 30 years of experience in the production of oilfield mud pumps.

©MM's products cover more than 23,000 components of the power and hydraulic mud pumps, including gears, crankshafts, bearings, pistons, cylinder liners, valve seats, valve bodies, etc.

© Every product we provide complies with US API specifications and quality standards with the original O.E.M code.

©We have state-of-the-art production equipment that can produce pump components for new and old models, including nonstandard parts.





MM AKSHELLS INC.

# PROFILE



## FLUID ENDEPENDABLES

- ©Modules: discharge & suction
- ©Liners
- ©Valves & seats
- ©Piston & piston rubbers
- ©Piston rods & extension rods
- ©Cylinder heads & valve covers

## INSTRUMENTATION & OTHER PARTS

- ©Pressure gauges
- ©Hydraulic seat pullers
- ©Oilfield chains
- ©Gasket & baffles
- ©Dampeners
- ©Manifolds, discharge & suction
- ©Diaphragms & discharge crosses

## POWER END

- ©Crankshafts
- ©Bearings
- ©Crossheads & guides
- ©Pinion shaft
- ©Gears





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# WOMBLE

MM offers premium fluid-end modules for all well-known mud pumps. All modules are made from internally hardened AISI 8620 or 4135 alloy steels with precise machining, complex heat treatment, and strict inspection in order to provide extremely durable modules for high-demand pumping requirements in current oil and gas industry. The interchangeable suction and discharge connections enable adaptability to most OEM fluid ends, eliminating extensive spare part inventories.



## ■ Features

- ©Operating pressure ranges are 5,000, 7,500, and 10,000 PSI
- ©Valve-over-valve and L-shaped (one-bonded or two-pieces)
- ©Fully interchangeable with standard OEM equipment
- ©Incomparable manufacturing technology and quality control assure durability
- ©Most of MM's modules are coated with our corrosion resistant material to maximize service time





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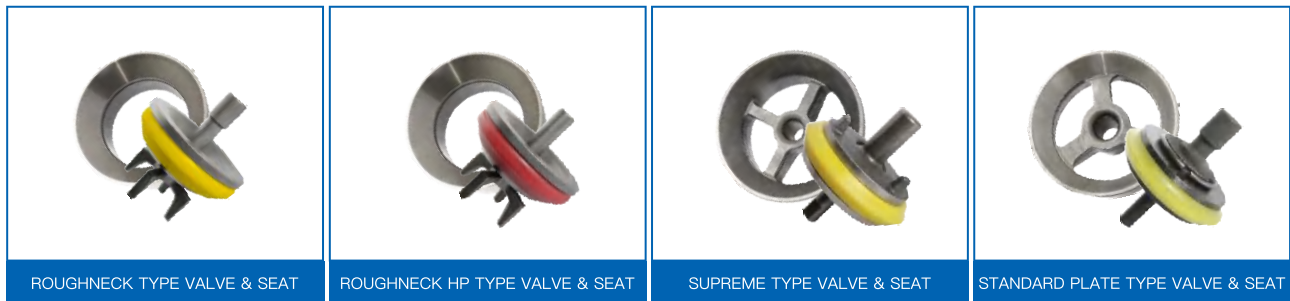


## Liners

| Liners                           |                                  | Hy-Chrome                           | Ceramic                             | Hardened Steel                              | Chrome Plated                       |
|----------------------------------|----------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------|-------------------------------------|
| DESCRIPTION                      |                                  | Hy-chrome Liner                     | Ceramic Liner                       | Hardened Steel Liner                        | Chrome Plated Liner                 |
| Material                         |                                  | AISI 1045<br>HI CR-CF               | AISI 1045<br>Ceramic                | AISI 1045<br>(carburized and quenched bore) | AISI 1045<br>(chrome-plated bore)   |
| Hardness                         |                                  | HRC59~69                            | HRC84~92                            | HRC58~62                                    | HRC58~62                            |
| Normal Service<br>Life time (Hr) |                                  | 800                                 | 2000~4000                           | 800                                         | 800                                 |
| Operating Condition              | Operating Pressure<br>(Max. psi) | 7500                                | 7500                                | 7500                                        | 7500                                |
|                                  | Temperature                      | 20 ~ 230 °F                         | 20 ~ 338 °F                         | 20 ~ 230 °F                                 | 20 ~ 230 °F                         |
|                                  | PH. (Normal.)                    | 7.5~10.2                            | 10 ~ 12                             | 7.5~10.2                                    | 7.5~10.2                            |
|                                  | Hydrogen Sulfide<br>(Max.) ppm   | 22                                  | 22                                  | 22                                          | 22                                  |
|                                  | Sand Solids (Normal)             | 0.21% Oil Based<br>and Oil Emulsion | 0.21% Oil Based<br>and Oil Emulsion | 0.21% Oil Based<br>and Oil Emulsion         | 0.21% Oil Based<br>and Oil Emulsion |



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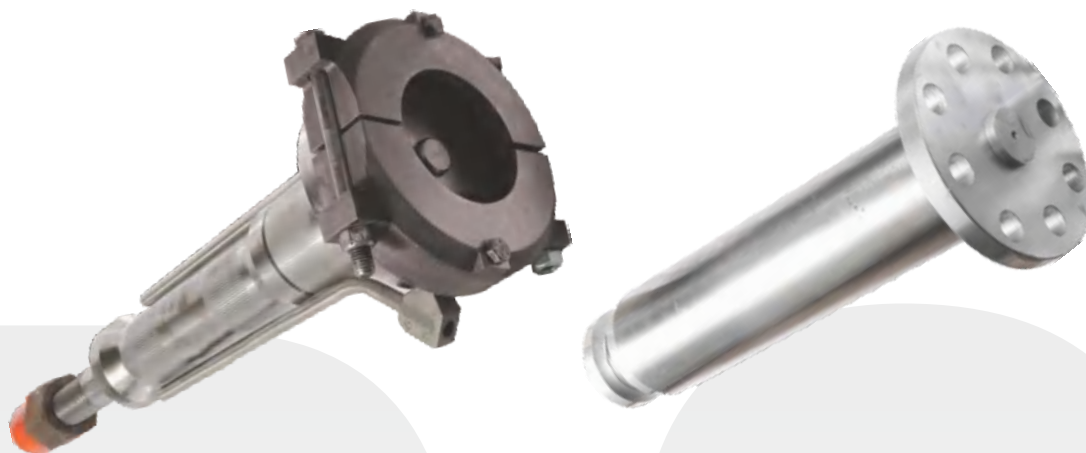


## Pistons & Valves



| Piston                           | Rubber                              | Urethane Bonded                     | Blue Lightning                      | Green Bonded                        | Urethane HT High-Temp               | High-Temp                           | Bull nose                           |
|----------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Material                         | AISI 5140<br>Buna-N Rubber          | AISI 5140<br>Urethane 711           | AISI 5140<br>Polyurethane           | AISI 5140<br>Urethane 711           | AISI 5140<br>Polyurethane           | AISI 5140<br>Polyurethane           | AISI 5140<br>Dual Urethane          |
| Hardness                         | HB285-341<br>85+/-5                 | HB285-341<br>90+/-5                 | HB285-341<br>90+/-5                 | HB285-341<br>90+/-5                 | HB285-341<br>90+/-5                 | HB285-341<br>90+/-5                 | HB285-341<br>90+/-5                 |
| Operating Pressure<br>(Max. psi) | 5000                                | 6300                                | 7500                                | 7500                                | 7500                                | 7500                                | 7500                                |
| Temperature                      | 32 ~ 175 °F                         | 20 ~ 200 °F                         | 20 ~ 220 °F                         | 220 ~ 250 °F                        | 20 ~ 300 °F                         | 20 ~ 325 °F                         | 20 ~ 200 °F                         |
| PH. (Normal.)                    | 7.5-10.2                            | 7.5-10.2                            | 7.5-10.2                            | 7.5-10.2                            | 7.5-10.2                            | 7.5-10.2                            | 7.5-10.2                            |
| Hydrogen Sulfide<br>(Max.) ppm   | 22                                  | 22                                  | 22                                  | 22                                  | 22                                  | 22                                  | 22                                  |
| Sand Solids,<br>(Normal)         | 0.21% Oil Based<br>and Oil Emulsion | 0.21% Oil Based<br>and Oil Emulsion | 0.21% Oil Based<br>and Oil Emulsion | 0.21% Oil Based<br>and Oil Emulsion | 0.21% Oil Based<br>and Oil Emulsion | 0.21% Oil Based<br>and Oil Emulsion | 0.21% Oil Based<br>and Oil Emulsion |

MM's pistons are made to exact tolerances and include a variety of extended wear materials yielding excellent service life. Pistons include combinations from 3" to 8" sizes and available for all pressures.



## Piston Rods & Extension Rods

MM's full line of piston rods and extension rods are available for various pumps. Made of forged alloy steel with thermal refining treatment, the result yields excellent mechanical characteristic. Duplex and triplex components are available.



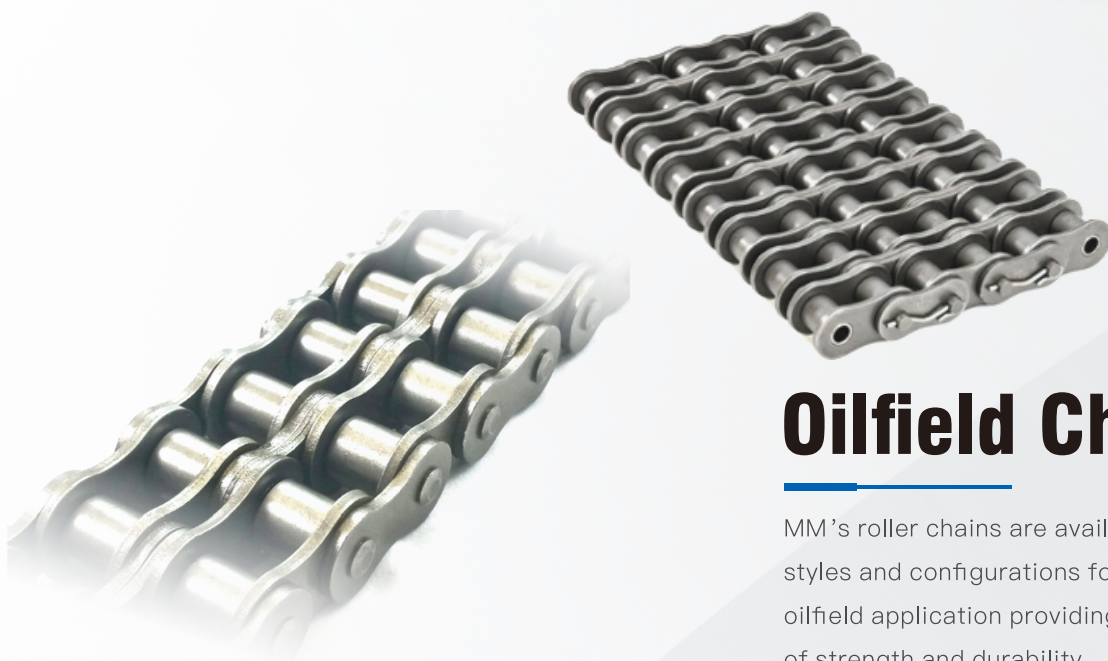
## Cylinder Heads & Valve Covers

MM's cylinder heads and valve covers are made from forged alloy steel and designed for quick and easy access to valves and liners during maintenance operations.



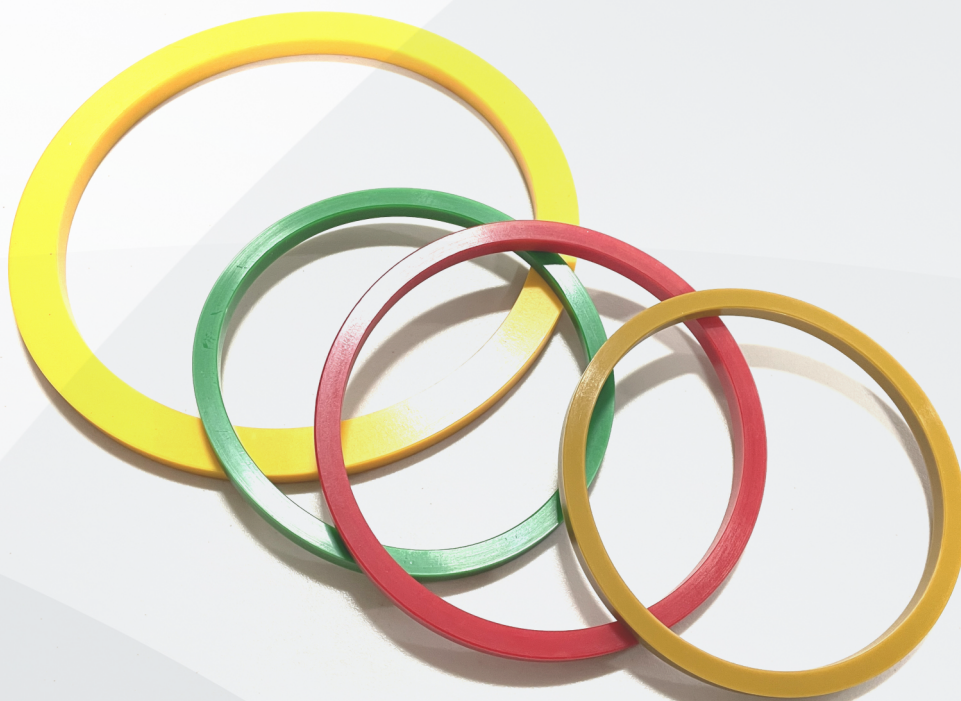


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## Oilfield Chains

MM's roller chains are available in many styles and configurations for a variety of oilfield application providing a combination of strength and durability.



## Gasket & Baffles

MM's gaskets for valve covers, cylinder heads and liner seals are made of polyurethane, rubber and or a combination of fabric and rubber resulting in a durable and flexible material unyielding to high pressures and temperature.