

Worldwide Oilfield Machine, Inc. (WOM)

is a multinational manufacturer of pressure and flow control equipment with worldwide headquarters in Houston, Texas, and manufacturing, sales and service facilities strategically located throughout the world. Since the company's founding, WOM has applied innovative concepts and engineering excellence to consistently improve reliability and reduce maintenance of process pressure and flow control equipment. In 1985, WOM introduced the breakthrough Magnum Dual-Seal design for high pressure gate valves used in the oil and gas industry. After thorough and rigorous testing at WOM and independent test facilities, the Magnum Gate Valve design proved its superiority and became the gold standard in the industry for high-reliability, low maintenance valve technology. WOM continues to expand its product portfolio, manufacturing capabilities and customer service/support centers to offer customers a single source for world-class pressure and flow control package solutions.

An aggressive product development program has led to oil and gas, petrochemical and power companies worldwide depending on WOM equipment to support their operations while protecting their employees and the environment. All WOM products meet ISO and API performance and are engineered to surpass quality requirements. Complete vertical integration, combined with a well-managed supply chain, ensures that customers receive orders according to their schedule.

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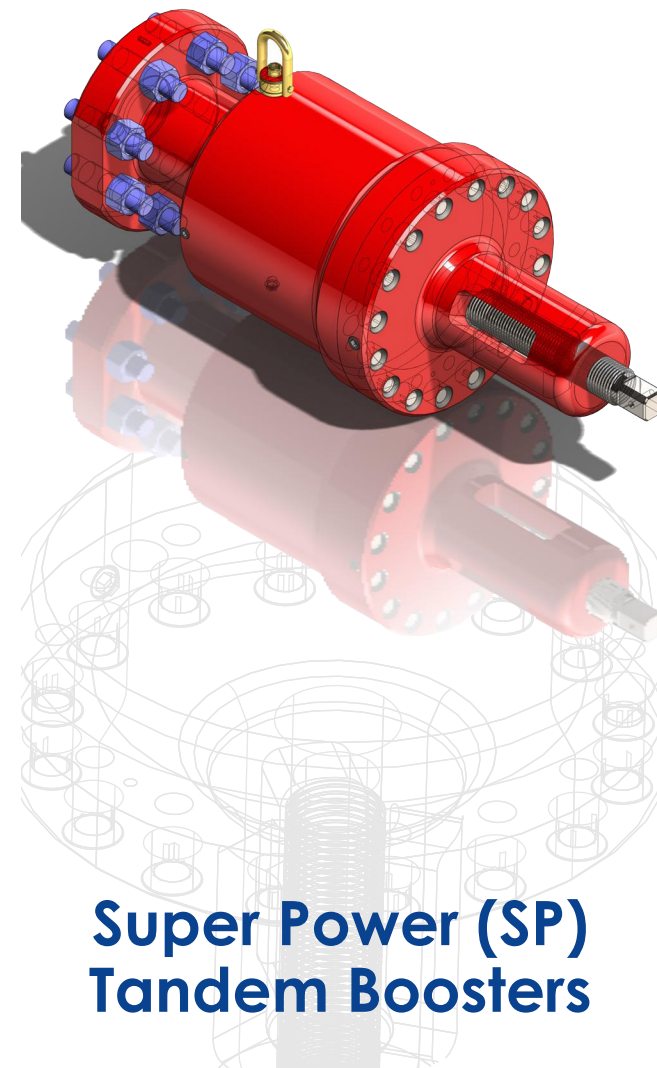
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WORLDWIDE OILFIELD MACHINE

Est. 1980



Super Power (SP) Tandem Boosters

www.womusa.com



WORLDWIDE OILFIELD MACHINE

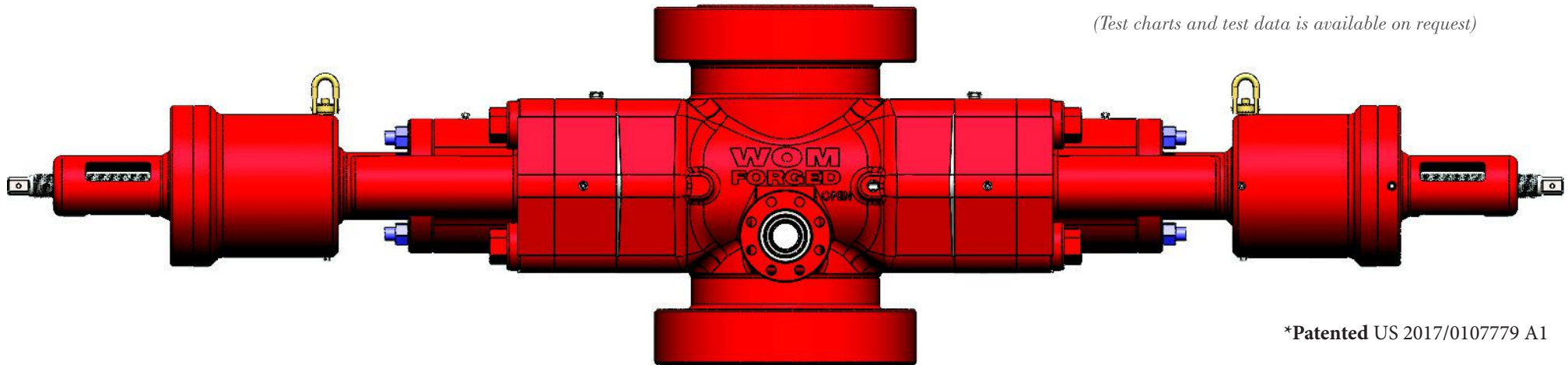
WOM's Super Power (SP)- Tandem Boosters

WOM's new Super Power (SP)-Tandem Boosters* are designed to enhance the shearing force of Ram-type BOPs. WOM's SP –Tandem Boosters offer more advantages and benefits over those of traditional shear boosters.

Features and Benefits:

- May be utilized on any size of ram-type BOP such as but not limited to 7-1/16", 11", 13-5/8", 18 3/4" and 21 1/4".
- Offers ability to shear larger and heavier sizes of drill pipe required for deep drilling, where extra heavy wall-thickness is required for hydrocarbon producing wells or extreme sour environments.
- SP-Tandem Boosters with large bore bonnets have a rigid power of approximately one million pound force, capable of shearing drill pipe at any extreme well condition and harsh environment.
 - SP-Boosters provide twice the shearing force than traditional tandem boosters.
- SP-Tandem Boosters use of internal hydraulic flow path for hydraulic operations, eliminates external piping and exposure to damage during handling, storage, and shipping.
- Quick and easy field replacement of standard seals.
 - The SP-Tandem Booster uses the same seals as the large bore piston and shaft seals.
- Rigid and robust design. Each part is engineered in-house to meet and/or exceed national petroleum industry code and standards.
- Requires only three main components: Housing, Piston and End Plate; making assembly and disassembly quicker with low maintenance.
 - Eliminates the need for spacers, connectors, and other parts used in traditional tandem boosters.
- Weighs less than traditional boosters.
- Existing WU BOPs and other OEM BOPs may be retrofitted with SP-Tandem boosters to provide extra shearing force.
 - External hydraulic lines may be required for retrofit applications.
- May be utilized in smaller size ram-type BOPs, offering a reduction in size, weight and overall cost.
- WOM has successfully completed shear tests on 13 5/8" 10,000-psi blowout preventer utilizing SP-Tandem Shear Booster for the following drill pipes, witnessed by WOM's certified quality assurance personnel as per API-16A guidelines.
 - Drill Pipe OD 5", Grade S-135, PPF 25.6, closing pressure 2300-psi
 - Drill Pipe OD 5 1/2", Grade S-135, PPF 24.7, closing pressure 2200-psi
 - Drill Pipe OD 6 5/8", Grade S-135, PPF 25.2, closing pressure 1500-psi
 - Drill Pipe OD 6 5/8", Grade S-135, PPF 27.6, closing pressure 2,400-psi
- Above test criteria and governing rules meet the requirements of hydraulic closing pressure for drill pipe shear as per API-53 which is 90% below the rated hydraulic maximum pressure.

(Test charts and test data is available on request)



*Patented US 2017/0107779 A1