



**SPM™ Oil & Gas**

*A Caterpillar Company*

**SPM® EXL Frac Pump**



## Engineered to overcome

Today's frac fleets are being pushed to their limits under increasingly brutal conditions. Pumps work longer hours with less frequent service intervals, while field resources are stretched thinner than ever.

At SPM Oil & Gas, our engineers were inspired by these challenges to design the most reliable frac pump in its class. The SPM® EXL Frac Pump systematically addresses the biggest issues facing operators and manufacturers.

### Superior strength and rigidity

Leveraging the innovation built into the SPM® QEM 3000, the SPM® EXL Frac Pump boasts the highest rod-load rating in its class—238,000 lbs. With solid-steel unibody-nose construction, the power end offers superior rigidity, distributing the load more evenly through the frame.

Since most frames crack along weld lines, we dramatically reduced the number of internal groove welds, moving them to the outside of the frame. The frames can be welded robotically, achieving better and consistent welds. An integrated skid design provides added rigidity and bearing alignment, minimizing vibration and wear on critical components.

### Precision machined

Extreme torque stress brutalizes bearings, bull gears and pinions. So we completely re-engineered the gear system, using modernized manufacturing techniques to maximize surface contact between gear teeth, reducing the risk of stripping damage and extending service life.

## SPM® EXL Fluid End

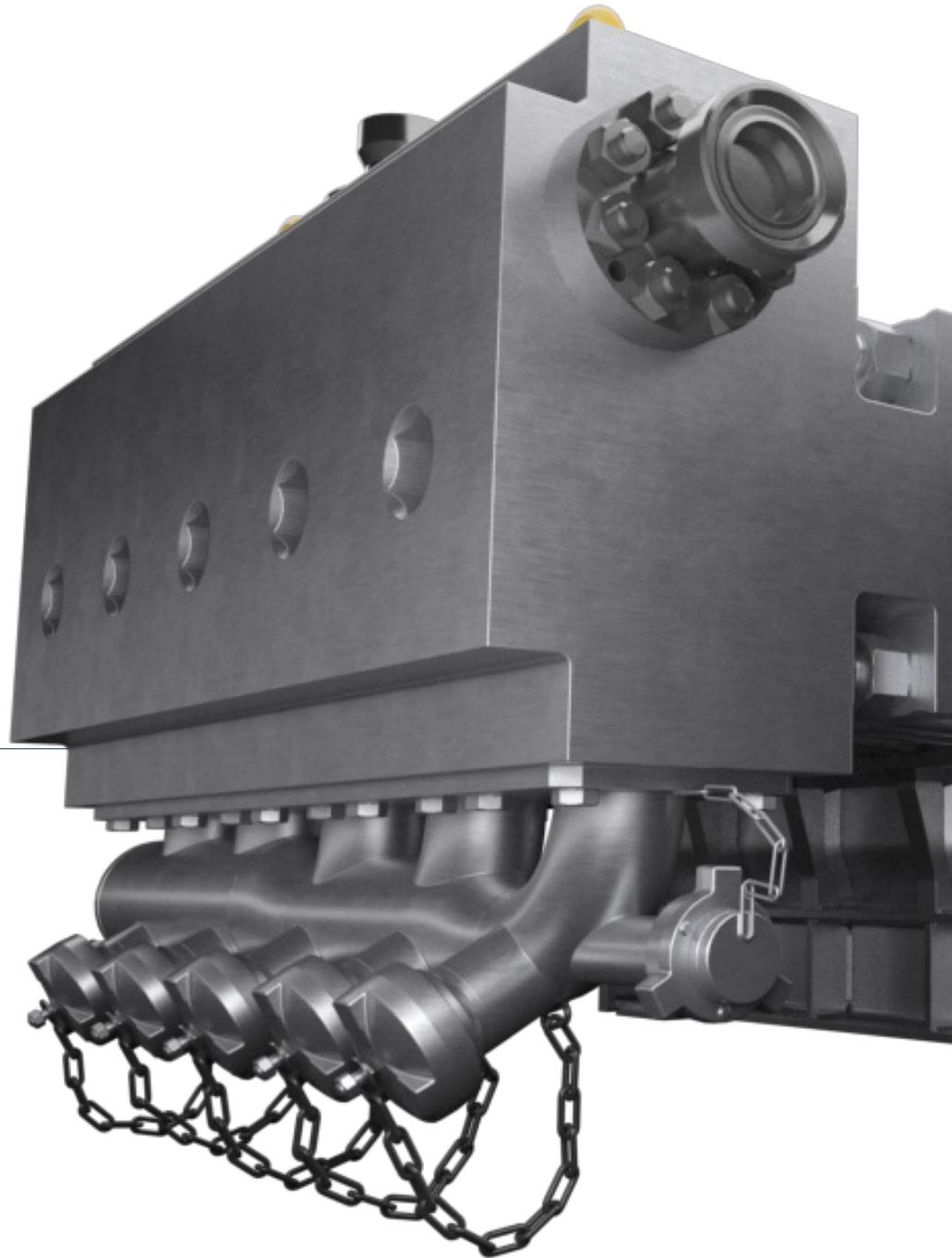
# Human interaction: minimized

### Features

- Patent-pending SPM® Everbore™ hardened steel packing bore to eliminate threat of washboarding and added downtime associated with re-sleeving
- Patent-pending cross-bore design eliminates need of hand blending and autofrettage, while optimizing thread engagement
- Patent-pending suction cover and valve stop mitigate seal bore wear with engineered seals
- SPM® Duralast® retainer nut adds strength while lowering stress 32%
- Maintenance markings on expendables to simplify field maintenance
- Comprehensive guidance from SPM® Edge including product maintenance, videos and service tips
- Digital customer support solutions for easier, more accurate management of assets

### Specifications

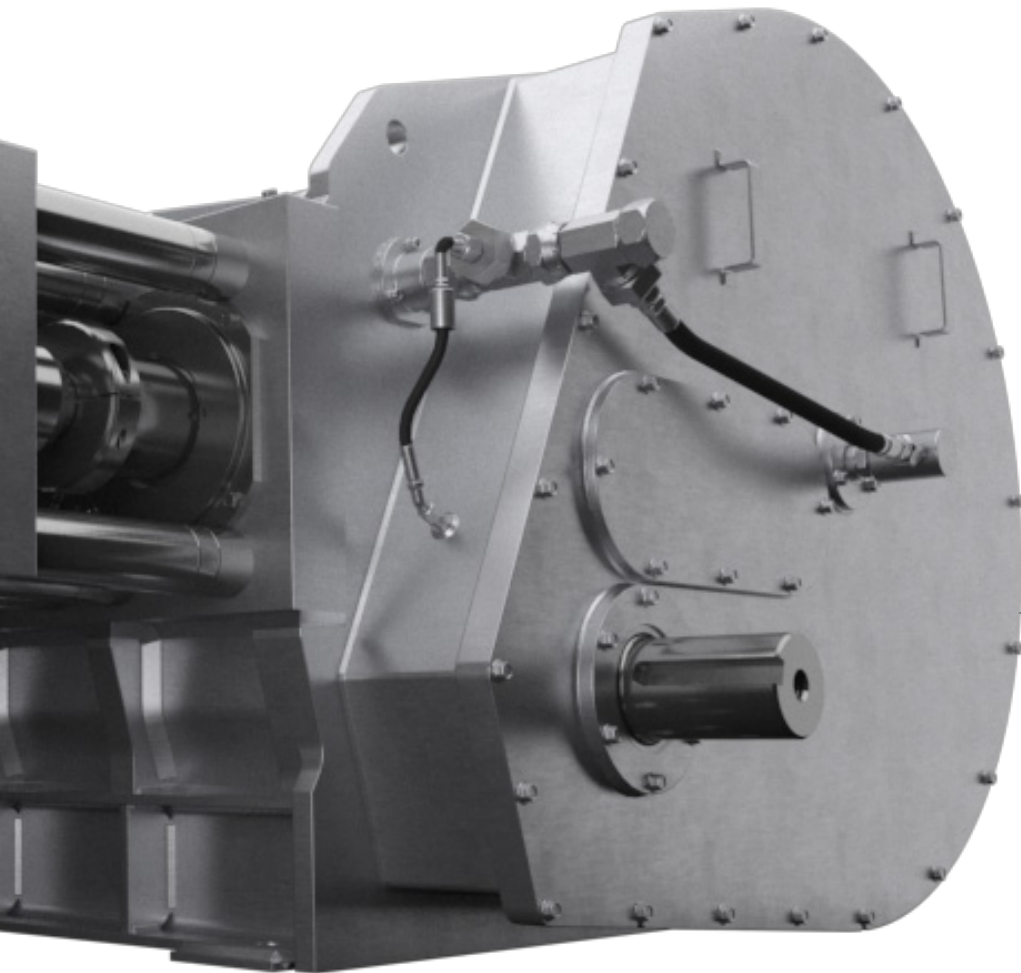
- Application: hydraulic fracturing
- Approximate Dry Weight (assembled): 5,084 lbs.
- Approximate Length: 52"
- Approximate Width: 20"
- Approximate Height: 23.75"



**Note:** Dimensions refer to fluid cylinder only; they do not include external components.

## SPM® EXL Power End

### Weak links: eliminated



#### Features

- Solid-steel unibody-nose plate construction for greater rigidity and better load distribution
- Integrated skid for greater rigidity, reduced wear on critical components and minimized vibrations
- Completely redesigned gear system and manufacturing processes provides greater surface contact between gear teeth, reducing damage and maximizing service life
- Fewer internal welds
- Fewer potential leak points
- Robotic weld processes for consistent manufacture
- Designed for minimal interaction, supported by SPM® Edge and quality SPM® EdgeX™ replacement parts and engineered repairs

#### Specifications

- Application: hydraulic fracturing, 2,500 bhp quintuplex pump, allows for 15,000 psi at a 4.5" plunger
- Maximum Rod Load Capacity: 238,000 lbs.
- Stroke Length: 8"
- Gear Ratio: 6.353:1
- Approximate Length: 86.5"
- Approximate Width: 79.5"
- Approximate Height: 45"
- Approximate Weight (dry): 12,075 lbs.
  - Power End: 12,075 lbs.
  - Fluid End: 5,085 lbs.
  - Zoomie Suction Manifold: 225 lbs.

Note: Pump dimensions and weights are approximate. For full detailed drawings, please contact SPM Oil & Gas.

SPM® Edge

## The service advantage



We designed the SPM® EXL Frac Pump for minimal interaction, ultimately targeting zero maintenance in the red zone. To simplify service for operators with limited resources, we've designed the pump for ease of maintenance, with service specifications printed directly on the body of the fluid end.

Plus, we have a library of service training videos that can supplement your own rigorous training programs and act as reminders for your teams in the field.

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As always, SPM® Edge field technical teams are always ready to deploy to your site for root-cause analysis and specialized expertise—with quality SPM® EdgeX™ replacement parts and engineered repairs—giving you a service advantage in the world's most challenging conditions.

**For more information, visit [www.spmoilandgas.com](http://www.spmoilandgas.com)**



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