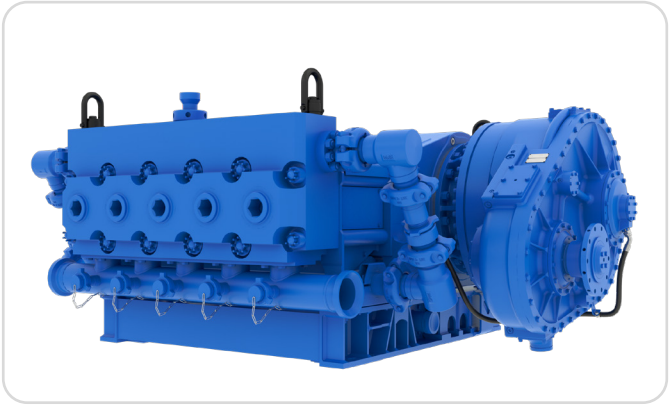
SPM™ QEM PUMPS

QEM3600C / QEM5000C



INCREASE YOUR HORSEPOWER WHILE DECREASING YOUR PUMPS ON-SITE

The SPM™ QEM platform was designed from the ground up for true continuous duty at full rod load-24/7. With zero nonproductive time (NPT) reported across over one billion field cycles, the QEM 3600C (3,600 bhp) and QEM 5000C (5,000 bhp) deliver extreme durability , enabling operators to reduce fleet size by up to 60% while cutting maintenance and operational costs by 20%.*

Rugged durability is engineered into the pump's design, enabling it to outlast legacy pumps. An engineered skid and cast frame enhance structural rigidity to significantly extend component life, while a simplified single pressure lubrication system with on-board filtration optimizes the flow of oil to ensure clean lubricant delivery. This helps prevent premature failure and reduces nonproductive time.

** Compared to previousfrac pump fleets under similar operating conditions.*

FEATURES

Continuous-duty performance: Designed to operate at full rod load in demanding frac applications.

High-horsepower output: Delivers increased power density to support today's high-intensity pumping operations.

Rigid cast power end frame: Provides structural strength for durability in harsh field conditions.

Integrated skid design: Supports transport, installation and overall system packaging.

Large frac pump bearing: Helps manage heavy operating loads and support longer component life.

Reduced pump bore requirement: Enables equivalent fleet output with fewer pump bores on location.

QEM platform flexibility: Supports integration with electric, turbine or alternative power configurations.

BENEFITS

Reliable operation: Helps reduce nonproductive time and keep frac fleets working in demanding pumping environments.

Lower ownership cost: Helps reduce maintenance requirements, support longer service intervals and lower total cost of ownership.

Improved efficiency: Helps operators complete more work with fewer pumps, simplifying fleet setup and site operations.

Enhanced safety: Fewer pumps and pump bores can reduce maintenance touchpoints and personnel exposure on location.

Higher productivity: Helps crews maintain output, pump longer and improve job efficiency.

Lower emissions potential: Compatible power options can help reduce diesel use, fuel consumption, noise and onsite emissions.

SPECIFICATIONS

	SPM™ QEM General Pump Data			
	QEM 3600C		QEM 5000C	
Maximum Brake Horsepower Input	3,600 BHP (2,237 kW)		5,000 BHP (3,729 kW)	
Maximum Rod Load Capacity	275,000 lb (124,738 kg)		308,000 lb (139,706 kg)	
Stroke Length	8 in (203 mm)		8 in (203 mm)	
Approximate Length	89 in (2,261 mm)		89 in (2,261 mm)	
Approximate Width	119 in (2,023 mm)		119 in (2,023 mm)	
Approximate Width (Inc. Gear Reducer and Bridle)	129 in (3,277 mm)		129 in (3,277 mm)	
Approximate Height	56 in (1,422 mm)		56 in (1,422 mm)	
Gear Ratio	6.972:1	10.01:1	6.972:1	10.01:1
Approximate Weight (Dry)	30,415 lb (13,796 kg)	30,435 lb (13,796 kg)	30,415 lb (13,796 kg)	30,435 lb (13,805 kg)

Note: Pump dimensions and weights are approximate.

TOGETHER, WE GET IT DONE.

SPM™ QEM 3600C FRAC PUMP PERFORMANCE CHART

Plunger Diameter	Displace Per Rev	DISPLACEMENT AT PUMP STROKES PER MINUTE (PINION RPM WITH 7:1 & 10:1)											
		50 rpm (349 rpm) (501 rpm)		117 rpm (813 rpm) (1167 rpm)		151 rpm (1054 rpm) (1514 rpm)		186 rpm (1295 rpm) (1860 rpm)		220 rpm (1537 rpm) (2206 rpm)		255rpm (1778 rpm) (2553 rpm)	
in (mm)	gal/rev (liter/rev)	gpm (lpm)	psi (Mpa)	gpm (lpm)	psi (Mpa)	gpm (lpm)	psi (Mpa)	gpm (lpm)	psi (Mpa)	gpm (lpm)	psi (Mpa)	gpm (lpm)	psi (Mpa)
4 ½	**2.75**	**138**	**17291**	**321**	**17291**	**416**	**13335**	**512**	**10852**	**607**	**9149**	**702**	**7908**
(114.3)	(10.4)	(521)	(119)	(1216)	(119)	(1576)	(92)	(1937)	(75)	(2297)	(63)	(2658)	(55)
5	**3.40**	**170**	**14006**	**397**	**14006**	**514**	**10801**	**632**	**8790**	**749**	**7411**	**867**	**6405**
(127.)	(12.9)	(643)	(97)	(1501)	(97)	(1946)	(74)	(2391)	(61)	(2836)	(51)	(3282)	(44)
Input Power: BHP (kW)		**1543**	(1151)	**3600**	(2685)	**3600**	(2685)	**3600**	(2685)	**3600**	(2685)	**3600**	(2685)

Based on 90% mechanical efficiency and 100% volumetric efficiency - Continuous Duty

For pressures above 15,000 psi and speeds above 255 crank rpm, contact SPM for information.

The areas in Orange are greater than 778 gpm and require 4" discharge iron to stay below maximum flow velocity of 42 ft/s.

The areas in Orange have a potential for increased fluid end and consumable wear rates due to high fluid velocities.

SPM™ QEM 5000C FRAC PUMP PERFORMANCE CHART

Plunger Diameter	Displace Per Rev	DISPLACEMENT AT PUMP STROKES PER MINUTE (PINION RPM WITH 7:1 & 10:1)											
		50 rpm (349 rpm) (501 rpm)		145 rpm (1008 rpm) (1448 rpm)		180 rpm (1253 rpm) (1799 rpm)		215 rpm (1498 rpm) (2150 rpm)		250 rpm (1742 rpm) (2502 rpm)		285rpm (1987 rpm) (2853 rpm)	
in (mm)	gal/rev (liter/rev)	gpm (lpm)	psi (Mpa)	gpm (lpm)	psi (Mpa)	gpm (lpm)	psi (Mpa)	gpm (lpm)	psi (Mpa)	gpm (lpm)	psi (Mpa)	gpm (lpm)	psi (Mpa)
5	**3.40**	**170**	**15686**	**492**	**15686**	**611**	**12623**	**730**	**10561**	**850**	**9078**	**969**	**7960**
(127.)	(12.9)	(643)	(108)	(1861)	(108)	(2313)	(87)	(2764)	(73)	(3216)	(63)	(3668)	(55)
5 ½	**4.11**	**206**	**12964**	**595**	**12964**	**739**	**10432**	**884**	**8728**	**1028**	**7502**	**1172**	**6578**
(139.7)	(15.6)	(779)	(89)	(2252)	(89)	(2798)	(72)	(3345)	(60)	(3891)	(52)	(4438)	(45)
INPUT POWER: BHP (kW)		**1729**	(1289)	**5000**	(3729)	**5000**	(3729)	**5000**	(3729)	**5000**	(3729)	**5000**	(3729)

Based on 90% mechanical efficiency and 100% volumetric efficiency - Continuous Duty

For pressures above 15,000 psi and speeds above 285 crank rpm, contact SPM for information.

The areas in Orange are greater than 778 gpm and require 4" discharge iron to stay below maximum flow velocity of 42 ft/s.

The areas in Orange have a potential for increased fluid end and consumable wear rates due to high fluid velocities.

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