

Superior performance
and reliability.



Eaton® Xcel Series
Low-Speed High-Torque Motors



EATON

Powering Business Worldwide

Where superior performance and reliability meet exceptional value.

» In order to manage costs while optimizing machine life, mobile OEMs must specify a motor that matches the duty cycle of the work circuit to the machine's performance requirements. For light- and medium-duty applications, there's no better solution than Eaton Xcel Series Low-Speed High-Torque motors.

3-zone architecture at a 2-zone price point

Competitive light- and medium-duty motors are designed with two zones (A and B ports) and no case drain. The problem with these 2-zone designs is that in applications requiring bi-directional rotation, the shaft seals are vulnerable to B-port pressure spikes – which can damage the motor and cause premature failure. Xcel Series motors feature a 3-zone architecture, which dampens pressure spikes in both directions, even without a case drain hose – helping extend shaft seal life and enhance overall reliability.

Plus, Eaton's 3-zone motors use a "same speed" disc valve that rotates with the output shaft, improving mechanical and volumetric efficiency. Competitive 2-zone motors have high-speed valves that spin 6X faster than the output shaft, requiring extra horsepower which raises the system's operating temperature and wastes energy.

Ideal applications

- Salt and sand spinners
- Street cleaner brushes
- Car washes
- Combine reel drives
- Feed-grinding augers
- Auger swing drives
- Stake-down motors
- Post-hole drives

In a brush cutter comparison test, the Xcel Series motor was

40%
more efficient
than competitive
2-zone motors.

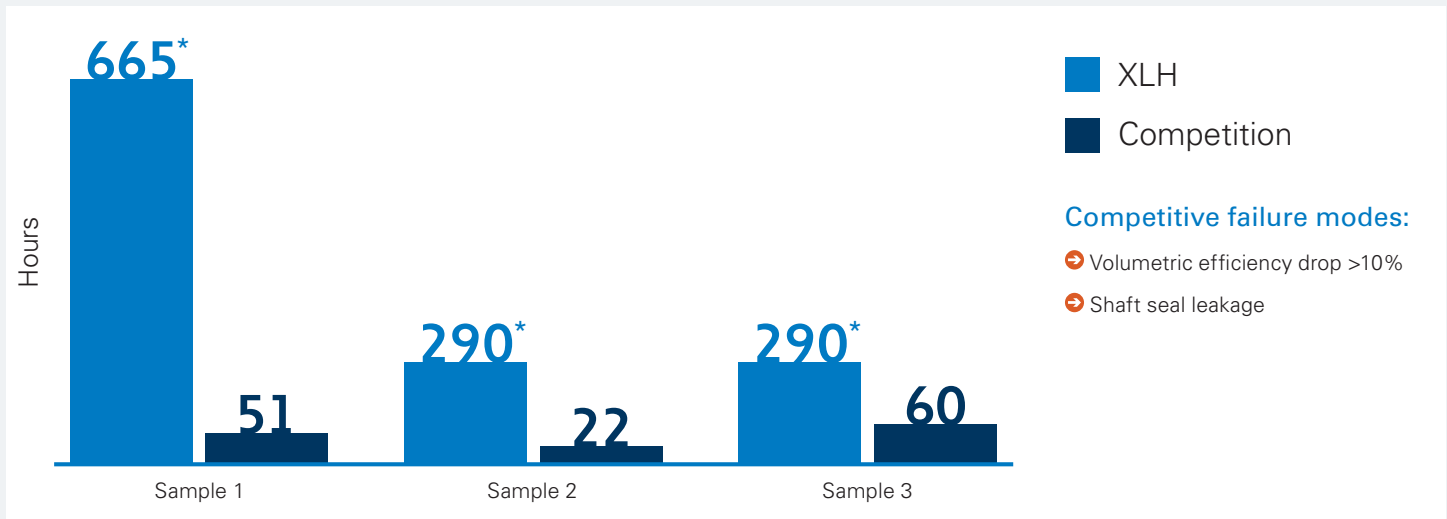
The Xcel Series is available at a comparable price point to competitive 2-zone motors, making it easier than ever to make the switch.



Xcel Series motors vs. offshore competitors: the difference is clear.

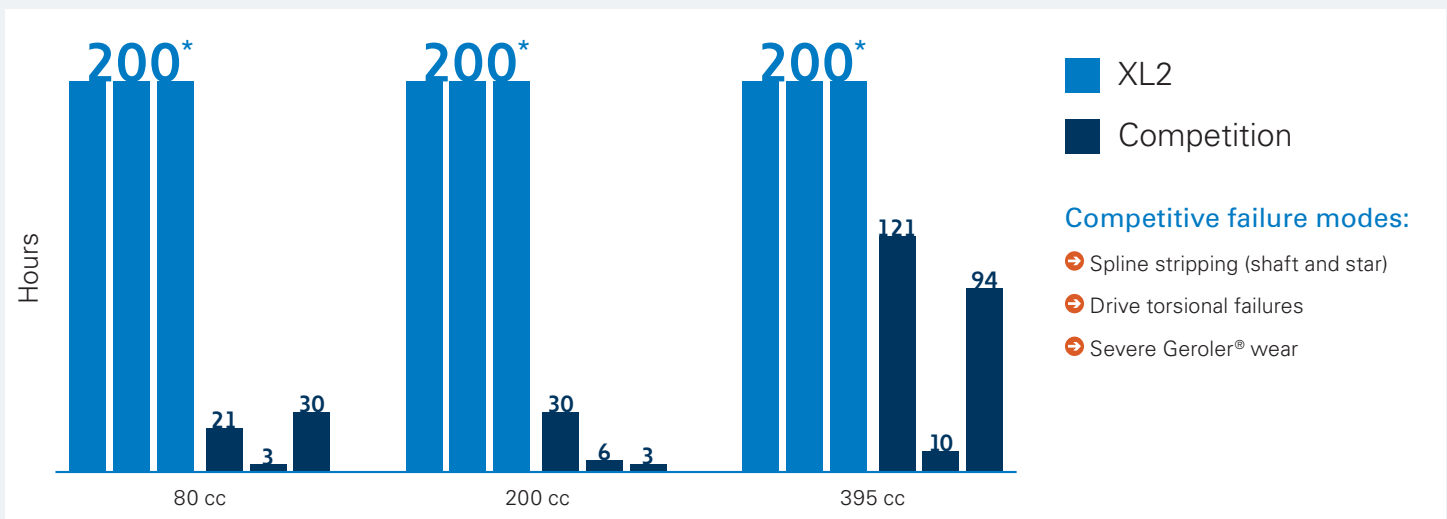
» In accelerated life tests (continuous operation at maximum intermittent pressure and maximum continuous flow), Eaton Xcel Series motors exponentially exceeded the performance of competitive motors.

Accelerated life test: XLH vs Competition at 200cc



*No failure. Testing stopped per TR-019493A.

Accelerated life test: XL2 vs Competition

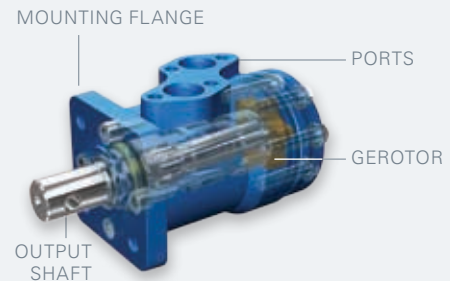


*Test goal met at 200 hours per TR-017903A.

Which Xcel Series motor is right for your application?

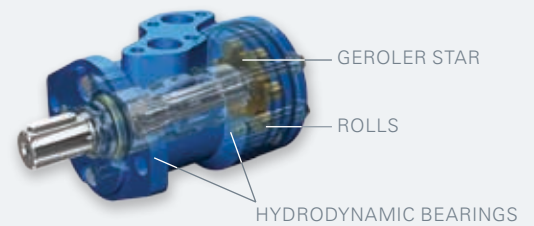
Eaton XLH

Uses Eaton's proven Gerotor motor design and offers a simple, reliable, effective solution for the widest variety of applications. Supported by hydrodynamic bearings, the spool valve design is available with the most popular output shafts, mounts and displacements.



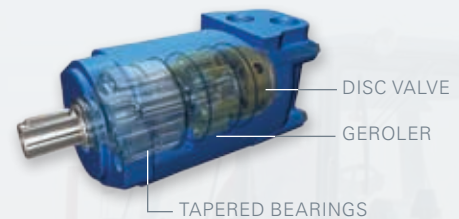
Eaton XLS

Leveraging the compact size of the XLH, the XLS incorporates Eaton Geroler® technology to further reduce internal friction and provide added longevity for applications needing higher-than-normal performance.



Eaton XL2

Featuring Eaton's highly reliable Geroler design, the XL2 motor includes a tapered bearing set to support high sideloads plus a rear disc valve to help maintain high efficiency at high pressures and high torque.



Motor	Max Speed	Torque Nm (in-lbs.)*	Flow lpm (gpm)*	Δ Pressure bar (psi)*
XLH	800	507 [4485]	68 [17.6]	138 [2000]
XLS	875	512 [4530]	68 [17.6]	155 [2250]
XL2	924	930 [8225]	115 [30]	310 [4500]

*Intermittent ratings based on 10% of every minute

 Request an Xcel Series prototype today

Contact your local Eaton distributor to request an Xcel Series prototype.

Don't have a distributor? Visit eaton.com/locatedistributor to find one near you.

A better solution for your toughest light-duty motor challenges.

Challenge:

High-performance motors work well but cost too much because they're over-specified for the application.

Xcel Series solution:

Engineered specifically for light- and medium-duty applications, the Xcel Series offers the Eaton reliability you depend on at a more attractive price point – helping you meet both your machine performance and cost goals.

Challenge:

Low-cost motors meet your price point but may be prone to premature failure.

Xcel Series solution:

Compared to competitive 2-zone motor designs, Xcel Series motors feature a 3-zone architecture that helps extend shaft seal life and enhance overall motor reliability – giving you the durability your application needs at the price point your machine can support.

Challenge:

Low-cost motor failure can damage your company's reputation due to poor quality, limited life and increased warranty claims.

Xcel Series solution:

When you choose an Xcel Series motor, you're choosing the same quality and reliability that comes standard with all Eaton products. Xcel Series motors are backed with a 2-year warranty, giving you complete confidence and peace of mind – and helping protect your reputation.



One source for all your light- and medium-duty motor needs.

Xcel XLH Motor*



MOUNT	SHAFT	PORTS	DISPLACEMENT (cm ³ /r [in ³ /r])									
			53 cm ³ /r [3.2]	63 cm ³ /r [3.8]	80 cm ³ /r [4.9]	100 cm ³ /r [6.1]	125 cm ³ /r [7.6]	160 cm ³ /r [9.8]	200 cm ³ /r [12.2]	245 cm ³ /r [15.0]	315 cm ³ /r [19.2]	390 cm ³ /r [23.8]
4 Bolt Flange	1" SAE 6B Spline	7/8-14 O-ring Staggered	016-0264	016-0265	016-0266	016-0267	016-0268	016-0269	016-0270	016-0271	016-0272	016-0273
	1" Straight Keyed Shaft		016-0230	016-0274	016-0231	016-0205	016-0275	016-0206	016-0207	016-0208	016-0276	016-0246
	1" Straight w/ Crosshole		016-0325	016-0326	016-0327	016-0328	016-0329	016-0330	016-0331	016-0332	016-0333	016-0334
2 Bolt Flange	1" SAE 6B Spline		016-0287	016-0288	016-0289	016-0290	016-0291	016-0292	016-0293	016-0294	016-0295	016-0296
	1" Straight Keyed Shaft		016-0297	016-0298	016-0252	016-0299	016-0300	016-0301	016-0302	016-0303	016-0304	016-0305
	1" Straight w/ Crosshole		016-0335	016-0336	016-0337	016-0338	016-0339	016-0340	016-0341	016-0342	016-0343	016-0344

Xcel XLS Motor*



MOUNT	SHAFT	PORTS	DISPLACEMENT (cm ³ /r [in ³ /r])									
			50 cm ³ /r [3.1]	80 cm ³ /r [4.9]	100 cm ³ /r [6.1]	130 cm ³ /r [7.9]	160 cm ³ /r [9.8]	195 cm ³ /r [11.9]	245 cm ³ /r [15.0]	305 cm ³ /r [18.6]	395 cm ³ /r [24.0]	
4 Bolt Flange	1" SAE 6B Spline	7/8-14 O-ring Staggered	036-0232	036-0233	036-0234	036-0235	036-0236	036-0237	036-0238	036-0239	036-0240	
	1" Straight Keyed Shaft		036-0241	036-0242	036-0225	036-0243	036-0244	036-0245	036-0246	036-0247	036-0248	
	1" Straight w/Crosshole		036-0249	036-0250	036-0251	036-0252	036-0253	036-0254	036-0255	036-0256	036-0257	
2 Bolt Flange	1" SAE 6B Spline		036-0258	036-0259	036-0260	036-0261	036-0262	036-0263	036-0264	036-0265	036-0266	
	1" Straight Keyed Shaft		036-0267	036-0268	036-0269	036-0270	036-0271	036-0272	036-0273	036-0274	036-0275	
	1" Straight w/Crosshole		036-0276	036-0277	036-0278	036-0279	036-0280	036-0281	036-0282	036-0283	036-0284	

Xcel XL2 Motor



MOUNT	SHAFT	PORTS	DISPLACEMENT (cm ³ /r [in ³ /r])								
			80 cm ³ /r [4.9]	100 cm ³ /r [6.1]	130 cm ³ /r [7.9]	160 cm ³ /r [9.8]	195 cm ³ /r [11.9]	245 cm ³ /r [15.0]	305 cm ³ /r [18.6]	395 cm ³ /r [24.1]	490 cm ³ /r [29.9]
2 Bolt Flange	1" Straight Keyed Shaft	7/8-14 O-ring Staggered	629AG00151A	629AG00152A	629AG00153A	629AG00154A	629AG00155A	629AG00156A	629AG00073A	629AG00157A	629AG00158A
	1.25" Straight Keyed Shaft		629AG00001A	629AG00002A	629AG00003A	629AG00004A	629AG00005A	629AG00006A	629AG00007A	629AG00008A	629AG00009A
	1.25" Tapered		629AG00159A	629AG00160A	629AG00161A	629AG00162A	629AG00163A	629AG00164A	629AG00165A	629AG00166A	629AG00167A
	1.25" 14 Tooth Spline		629AG00074A	629AG00075A	629AG00076A	629AG00077A	629AG00078A	629AG00079A	629AG00080A	629AG00081A	629AG00082A
4 Bolt Magneto Flange	1" Straight Keyed Shaft		629AG00168A	629AG00169A	629AG00170A	629AG00171A	629AG00172A	629AG00173A	629AG00174A	629AG00175A	629AG00176A
	1.25" Straight Keyed Shaft		629AG00177A	629AG00178A	629AG00179A	629AG00180A	629AG00181A	629AG00182A	629AG00141A	629AG00142A	629AG00183A
	1.25" Tapered		629AG00184A	629AG00185A	629AG00186A	629AG00187A	629AG00188A	629AG00189A	629AG00190A	629AG00191A	629AG00192A
	1.25" 14 Tooth Spline		629AG00193A	629AG00194A	629AG00195A	629AG00196A	629AG00197A	629AG00199A	629AG00120A	629AG00198A	629AG00199A

*Note: all XLH and XLS part numbers must include a -002 code suffix.

➔ To configure the right Eaton Xcel Series motor for your application, visit eatonpowersource.com



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