QM POWER

Peak Power At Peak Efficiency

21st Industry Growth Forum

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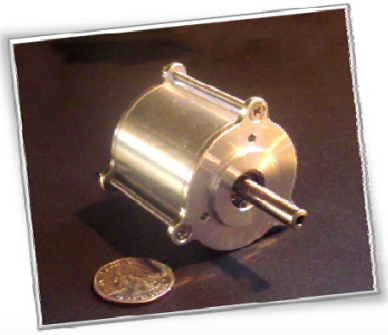
QM Power has invented and patented a new magnetic circuit that dramatically reduces the costs of electric motors, generators and actuators.



At <$10/bbl oil, QM Power's electric motors, generators and actuators will still be preferred over alternative conventional designs as they will have the <u>lowest upfront cost</u> AND will have the highest efficiencies.

Reducing the Total Cost of Ownership

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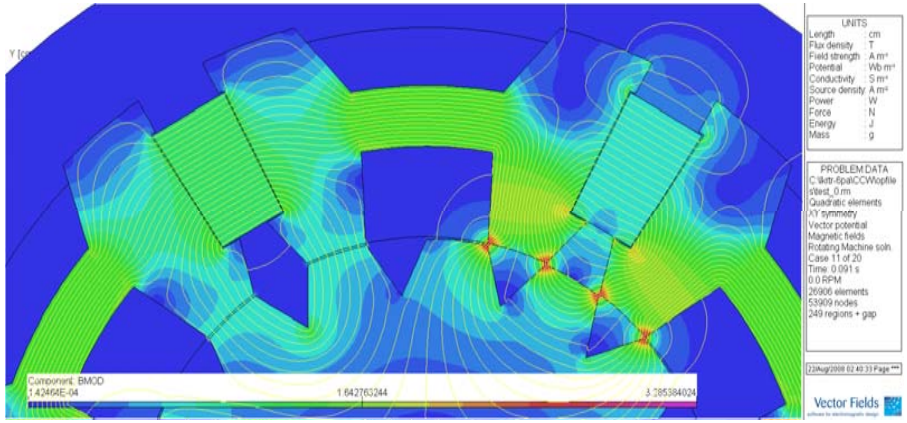
QM Power has a breakthrough technology that uses permanent magnets in a novel yet simple design that significantly increases power density and efficiency in electric motors, generators and actuators.



Technical Value Proposition

QM Power electromechanical technologies achieve the highest flux density/ampere in the regions of the air gap that produce force or torque in the direction work is being performed.

Customer Value Proposition

27% Greater Power Density	*Lower Weight and Volume*	*10%+ Lower Up-front Cost*
4-55%+ Greater Efficiency	*Minimized System Costs Gearing/Cooling*	*Greater Reliability*

Competitive Offerings

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QM Power devices are scalable from milliwatts to megawatts and do not require sourcing or production process pioneering. QM Power has assembled and tested prototypes from .1HP to 10HP and is currently designing and building prototypes in excess of 100HP.

Motor Size Range (hp)	Standard Efficiency Industrial Motors*	Premium Efficiency Industrial Motors*	QM Power Maximum Efficiency Motors	Efficiency Improvement **
1/6 - <1	68.0%	80.0%	**91.0%**	25.3%
1 - 5	82.5%	88.8%	**93.0%**	11.3%
7.5 - 20	84.6%	90.1%	**94.5%**	10.5%
25 - 50	88.9%	93.1%	**95.9%**	7.3%
60 - 125	91.4%	94.8%	**97.0%**	5.8%
>125	94.1%	95.9%	**97.9%**	3.9%

The average efficiency of the 900+ one HP fixed speed motors in the MotorMaster database is 81.1%.

QM Power is the Lowest Cost Solution

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1-5 hp Industrial Motor Example	Standard Efficiency Motor	NEMA Premium Efficiency Motor	QM Power Maximum Efficiency Motor
Average Purchase Price	$241.60	$287.20	$240.00
Average Motor Efficiency	81.0%	85.6%	93.0%
Annual Energy Cost	$644.88	$610.22	$561.67
Payback Period (yrs)	NA	1.3	None
First Yr Cost Differential	NA	$10.95	($95.76)
Installed Dimensions	Baseline	Size Increase	Size Decrease