



MagnaShear™ versus Stearns Brakes

The MagnaShear “Quickmount” spring set electric release motor brake featuring “Oil Shear Technology” has proven itself dependable and reliable in the toughest applications including mining, conveyors, trippers, port loading facilities, stackers, rail car loaders, dumpers, spotters, winches for marine duty, barge spotters, concrete block manufacturing and overhead cranes.

But like most things, if you need the quality, dependability and reliability – **you pay for it.**

Or do you... Recently, we compared our MagnaShear brakes with Stearns brakes. The results may be surprising. On low horsepower applications, our brakes cost only \$300 - \$400 more. Still much less expensive if you consider overall cost of maintenance, parts, inventory, and purchasing.

Even better, as the horsepower increased, the costs difference decreases. Above 10 HP the MagnaShear brake is actually less expensive than a comparable Stearns NEMA 4 brake.

Considering the long maintenance free life with “no ad-



justment—ever” the MagnaShear brake is a bargain.

Contact Force Control Industries, Inc. or your local Distributor.

<http://forcecontrol.com/products/brakes/motor-brakes/magna-shear-motor-brakes>

MagnaShear Motor Brakes	Stearns Motor Brakes
<ul style="list-style-type: none"> 40,000,000 cycle design life – *maintenance free 	<ul style="list-style-type: none"> 5-10,000,000 cycle life
<ul style="list-style-type: none"> Designed for dynamic stopping—not just holding 	<ul style="list-style-type: none"> Typically a holding brake with some dynamic capability
<ul style="list-style-type: none"> No Adjustment – ever! 	<ul style="list-style-type: none"> Requires regular adjustment depending usage
<ul style="list-style-type: none"> No replacement of discs, plates, or coils over life of brake 	<ul style="list-style-type: none"> Requires regular replacement of discs and coils.
<ul style="list-style-type: none"> Totally enclosed and sealed from dirt, dust, and moisture 	<ul style="list-style-type: none"> Standard brake is not sealed. Optional NEMA 4 available at additional cost
<ul style="list-style-type: none"> Smooth cushioned stops 	<ul style="list-style-type: none"> Harsh, abrupt, and noisy
<ul style="list-style-type: none"> Split clamp quill for 360 degree shaft clamping 	<ul style="list-style-type: none"> Standard bore and key – potential damaged key and keyway
<ul style="list-style-type: none"> Oil Shear Technology eliminates disc wear, fade, and noise. 	<ul style="list-style-type: none"> Dry friction susceptible to wear, disk degradation, and fade.

**Annual fluid change recommended for maximum performance and life.*

So, if you can get the quality, dependability and reliability of the MagnaShear Brake for less money than the Stearns Brake – Why wouldn't you?

Comparison Based on HP with Standard Torque Value (2x Safety Factor)

HP	RPM	NEMA FRAME	Recommended Brake Torque	Stearns		Force Control Ind	
				Basic Model	List Price	Basic Model	List Price
1/2	1200	056	4	01-056-021-00	\$515	MSB2-4-H-006-S-A-1	\$1,128
	1800	056	3	01-056-011-00	\$450	MSB2-4-H-006-S-A-1	\$1,128
3/4	1200	056	7	01-056-031-00	\$615	MSB2-4-H-008-S-A-1	\$1,128
	1800	056	4	01-056-021-00	\$515	MSB2-4-H-006-S-A-1	\$1,128
1	1200	145T	9	01-056-031-00	\$615	MSB2-4-H-012-S-A-1	\$1,128
	1800	143T	6	01-056-021-00	\$515	MSB2-4-H-006-S-A-1	\$1,128
1 1/2	1200	182T	13	01-087-021-00	\$925	MSB2-4-H-012-S-0-1	\$1,128
	1800	145T	9	01-056-031-00	\$615	MSB2-4-H-012-S-A-1	\$1,128
2	1200	184T	18	01-087-031-00	\$1,050	MSB4-5-H-021-S-0-1	\$1,893
	1800	145T	12	01-056-041-00	\$715	MSB2-4-H-012-S-A-1	\$1,128
3	1200	213T	26	01-087-041-00	\$1,200	MSB4-5-H-033-S-1-1	\$1,893
	1800	182T	18	01-087-031-00	\$1,050	MSB4-5-H-021-S-0-1	\$1,893
5	1200	215T	44	01-087-051-00	\$1,500	MSB6-8-H-062-S-1-1	\$2,435
	1800	184T	29	01-087-041-00	\$1,200	MSB4-5-H-033-S-1-1	\$1,893
7 1/2	1200	254T	66	01-087-061-00	\$2,000	MSB6-8-H-086-S-3-1	\$2,435
	1800	213T	44	01-087-051-00	\$1,500	MSB6-8-H-062-S-1-1	\$2,435
10	1200	256T	88	01-087-081-00	\$2,700	MSB6-8-H-100-S-3-1	\$2,435
	1800	215T	58	01-087-061-00	\$2,000	MSB6-8-H-062-S-3-1	\$2,435
15	1200	284T	131	01-081-021-0x with 5-55-2043-00 adapter	\$6,475	MSB8-R-150-R-5-1	\$4,965
	1800	254T	88	01-087-081-00	\$2,700	MSB6-8-H-100-S-3-1	\$2,435
20	1200	286T	175	01-081-021-0x w with 5-55-2043-00 adapter	\$6,475	MSB8-R-200-R-5-1	\$4,965
	1800	256T	117	01-081-011-0x w with 5-55-2041-00 adapter	\$6,125	MSB8-Q-150-R-3-1	\$4,965
25	1200	324T	219	01-081-031-0x	\$5,700	MSB9-S-250-R-7-1	\$8,646
	1800	284T	146	01-081-021-0x w with 5-55-2043-00 adapter	\$6,475	MSB8-R-150-R-5-1	\$4,965
30	1200	324T	263	01-082-041-0X	\$7,800	MSB9-S-300-R-7-1	\$8,646
	1800	286T	175	01-081-021-0x w with 5-55-2043-00 adapter	\$6,475	MSB8-R-200-R-5-1	\$4,965
40	1200	364T	350	01-082-051-0X	\$8,700	MSB9-S-350-R-E-1	\$8,646
	1800	324T	233	01-082-041-0X	\$7,800	MSB9-S-250-R-7-1	\$8,646
50	1200	365T	438	01-082-051-0X	\$8,700	MSB9-S-450-R-E-1	\$8,646
	1800	326T	292	01-082-041-0X	\$7,800	MSB9-S-300-R-7-1	\$8,646
60	1200	404T	525	01-086-X31-02 w ith 5-55-6041-00	\$18,300	MSB10-S-650-R-E-1	\$11,720
	1800	364TS	350	01-082-051-0X	\$8,700	MSB9-S-350-R-7-1	\$8,646
75	1200	405T	656	01-086-X31-02 w ith 5-55-6041-00	\$18,300	MSB10-S-650-R-E-1	\$11,720
	1800	365TS	438	01-082-051-0X	\$8,700	MSB9-S-450-R-E-1	\$8,646
100	1200	444T	875	01-086-X41-0X	\$17,000	MSB12-T-950-R-?-1	\$16,553
	1800	404TS 405TS	583	01-086-X31-02 w ith 5-55-6041-00	\$18,300	MSB10-S-650-R-E-1	\$11,720
125	1200	445T	1,094	01-086-X41-0X*	\$17,000	MSB12-T-1250-R-?-1	\$16,553
	1800	405TS 444TS	729	01-086-X31-02 w ith 5-55-6041-00	\$18,300	MSB10-S-650-R-E-1	\$11,720
150	1800	444TS 445TS	875	01-086-X41-0X	\$17,000	MSB12-T-950-R-?-1	\$16,553

Force Control Industries, Inc

Phone: (513) 868-0900 Fax: (513) 868-2105

www.forcecontrol.com info@forcecontrol.com

