



Electromagnetic MagHammer™ Impact Vibrator

Low maintenance solution to powder and bulk solid flow problems



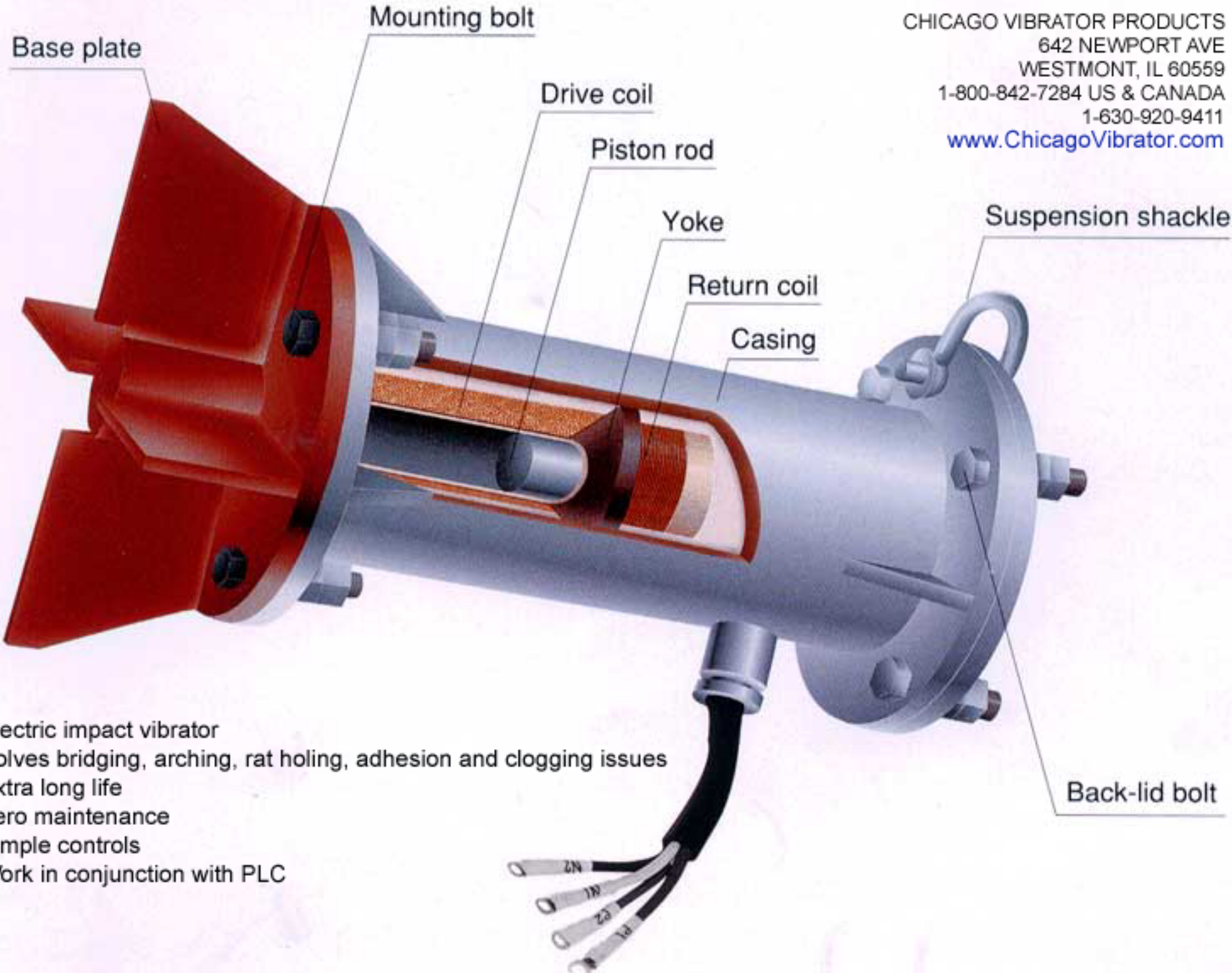
- **Electric impact vibrator**
 - **Solves bridging, arching, rat holing, adhesion and clogging issues**
 - **Extra long life**
 - **Zero maintenance**
 - **Simple controls**
- **Work in conjunction with PLC**

SIC electromagnetic impact vibrator or MagHammer™ is a high impact force, low frequency impact vibrator for the free-flow of powder and bulk solids. This vibrator an internal piston driven by a pair of electromagnetic coils providing a strong impact force on the face of vibrator which is transferred to the mounting surface. This impact is similar to a slug hammer impact, without the damage to the bin or silo, in that it frees materials that are clogged or sticking to the sides of a bin or silo. This is useful for the breaking up bridging, arching, clinging, and rat holing in bins, silo and transfer lines. The advantage of this system over other types is the sealed system requires zero maintenance. The associated controller also allows more control over the impact force and provides more consistent impact force.

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MagHammer™ Specification

MagHammer™ Dimensions

Model	Type	Impact Force		Weight (kgs/lb)	Body Dimension (length x dia)	Face Dimension (depth x dia) in	Current (amps)
		kg-m/sec	Hammer force				
SIC-05A	Sealed Unit (Indirect impact)	1.8	1 lb	7/16	5.13 x 8.9	2.3 x 6.7	1.3
SIC-1A		3.8	2 lb	13/29	11.2 x 6.5	3 x 8.5	1.8
SIC-2A		8.2	4 lb	22/49	12.5 x 6.3	3.4 x 7.8	3.4
SIC-3A		21.3	10 lb	52/115	15.12 x 10	4.25 x 12	3.9
SIC-05AS	Sealed Unit (Indirect impact, reduced noise)	1.3	0.7 lb	7/16	5.13 x 8.9	2.3 x 6.7	1.3
SIC-1AS		2.7	1.5 lb	13/29	11.2 x 6.5	3 x 8.5	1.8
SIC-2AS		5.7	3 lb	22/49	12.5 x 6.3	3.4 x 7.8	3.4
SIC-3AS		14.8	7 lb	52/115	15.12 x 10	4.25 x 12	3.9

Size and Number Selection Chart

Wall Thickness

Vessel Diameter	Ga	18-17	16-13	12-10	9-7	7-5	4-3	2-1				
	In	0.04	0.08	0.12	0.16	0.2	0.24	0.28	0.32	0.35	0.4	
	Ft	m/mm	1	2	3	4	5	6	7	8	9	10
2	0.5	1 ea		1 ea			1 ea				1 ea	
3	1	SIC-05		SIC-1			SIC-2				SIC-3	
7	2											
10	3	2 ea		2 ea			2 ea				2 ea	
14	4	SIC-05		SIC-1			SIC-2				SIC-3	
16	5											
20	6	3 ea		3 ea			3 ea				3 ea	
23	7	SIC-05		SIC-1			SIC-2				SIC-3	
26	8											
30	9	4 ea		4 ea			4 ea				4 ea	
33	10	SIC-05		SIC-1			SIC-2				SIC-3	

Controller Specifications

Model	Max. Quantity		Enclosure	Power	Operation	Impact Force
SB-1A	05A x 3	1A x 2	Indoor Dustproof	200/220 VAC 50/60 Hz 3-phase	Automatic, continuous or external operation; Impact: Adjustable 1-10; Pause time: Adjustable; 30 sec to 10 min	50-100% of the rated value of the hammer
	2A x 1	3A x 1				
SB-2A	05A x 6	1A x 4	Indoor Dustproof	200/220 VAC 50/60 Hz 1-phase	Automatic, continuous or external operation; Impact: Adjustable 1-10; Pause time: Adjustable; 30 sec to 10 min	
	2A x 2	3A x 2				
SB-1S	05A x 3	1A x 2	Indoor Dustproof	200/220 VAC 50/60 Hz 1-phase	Automatic, continuous or external operation; Impact: Adjustable 1-10; Pause time: Adjustable; 30 sec to 10 min	
	2A x 1	3A x 1				
SB-2S	05A x 6	1A x 4	Indoor Dustproof	200/220 VAC 50/60 Hz 1-phase	Automatic, continuous or external operation; Impact: Adjustable 1-10; Pause time: Adjustable; 30 sec to 10 min	
	2A x 2	3A x 2				
SN-1A	05A x 3	1A x 2	No enclosure	200/220 VAC 50/60 Hz 3-phase	External signal; Impact: once per sec	
SN-2A	2A x 1	3A x 1				
		05A x 6	1A x 4			
	2A x 2	3A x 2				