

VIBRATION SOLUTIONS

ENHANCING THE FLOW OF MATERIAL

L3665









SOLUTIONS BY APPLICATION

- 3 Vibration Basics
- 4-6 Bin, Chute, Hopper
 - **7 Vibratory Equipment**
- 8-9 Mobile Truck
 - 10 Concrete
 - 11 Railcar

With over 100 years of combined experience in applied vibration, we provide the highest quality products with the highest level of service at a fair price. Offering an extensive line of electric, pneumatic, and hydraulic vibrators, every product comes with our industry-leading and unsurpassed manufacturer's warranty and fast delivery times.

APPLIED VIBRATION TECHNOLOGY

Using the power of applied vibration,
Martin Engineering Vibration Technologies
energize material, reducing friction
against container walls as well as internal
particle-to-particle cohesion. With properly
sized and applied vibration, the material
moves more freely, feeds more effectively,
sorts more consistently, compacts more
efficiently and handles more easily.

APPLICATION

Each application is unique. No matter what industry your operation serves, Martin vibration has a product to suit your needs.

AIR vs ELECTRIC POWER

INITIAL COST

Initial purchase price for electric vibrators is typically greater than air vibrators.

OPERATION COST

Electricity is less expensive than air, therefore long-term operating costs will typically be lower for electric vibrators.

NOISE LEVEL

Electric vibrators are quieter than air vibrators; rotary is quieter than linear.

POWER SOURCE AVAILABLE

Availability of compressed air, electric, or hydraulic power may dictate choice.





LINEAR VS ROTATIONAL FORCE



LINEAR FORCE

for WET/STICKY MATERIAL

Linear vibrators activate the material inside a chute or bin by using heavy blows on the outside of the structure's steel walls.

ROTATIONAL FORCE

for DRY MATERIAL





Rotary vibrators create a vibratory force through the rotation of an eccentric weight.

NECESSARY MOTOR SPECIFICATIONS PER APPLICATION (ELECTRICS ONLY)

Application	Frequency (rpm)	Acceleration (G's)	Amplitude	
Conveying or Feeding	900 - 1800	2.0 - 5.0	High	
Screening	900 - 1800	5.0 - 7.0	High	
Draining or Dewatering	900 - 1800	3.0 - 5.0	Medium	
Bin/Hopper and Chute Evacuation	1800 - 3600	0.05 - 0.15*	Medium	
Compaction of Bulk Materials	1800 - 7200	2.0 - 4.0	Low	
Consolidation of Concrete	3600 - 10800	0.8 - 1.5	Very Low	
Testing of Parts or Assemblies	450 - 7200	0.5 - 5.0	High to Low	

^{*} Material Weight in Sloped Section



Durable, energy-efficient vibrators that are ideal for numerous flow aid applications.

FOOT-MOUNTED ELECTRICS

MARTIN® ELECTRIC VIBRATORS



- · Engineered for continuous-duty
- Fully-interchangeable drives with other major manufacturers

MARTIN® ELECTRIC VIBRATORS



- · Class II explosion-proof
- · Dual voltage



ROTARY PNEUMATIC

VIBROLLER®

ROLLER VIBRATORS



- Low air consumption
- · High frequency

VIBROLATOR®

BALL VIBRATORS



- Most cost-effective on the market
- Original ball vibrator

ATU SERIES

TURBINE VIBRATORS



- · Energy efficient
- · Quiet operation



PNEUMATIC PISTON

AP5 SERIES

PISTON VIBRATORS



- · Service-free with use of **FRL**
- · Great for sticky, coarse, or high-moisture material

PV SERIES PISTON VIBRATORS



- · Stronger robust design
- Suitable for high temperature applications

THUMPER™ SERIES

TIMED IMPACTOR



- Timer controlled
- Variable vibration from 1 to 60 impacts per minute

2000 SERIES

PISTON VIBRATORS



- Broad application range
- · High-frequency, highimpact energy



Durable, energy-efficient vibrators that are ideal for numerous applications such as feeders, conveyors, tables, and bin activators.



- Provides up to 16,500 lbsf
- Direct replacement for Derrick® screen vibrators*

MARTIN®

F-SERIES AND MFD-SERIES VIBRATOR



- Designed specifically for round separators
- Available in any rating

MARTIN®

HSV SERIES

HYDRAULIC VIBRATOR



- Ideal for remote applications
- Used in screening applications

MARTIN® MM SERIES ELECTRIC VIBRATORS



- Engineered for continuous-duty
- Fully-interchangeable drives with other major manufacturers

MARTIN® MMX SERIES ELECTRIC VIBRATORS



- · Class I explosion-proof
- · Larger C4 fit bearings
- · Higher force outputs

^{*}Derrick® is a registered trademark of Derrick Corporation, Buffalo, New York. There is no affiliation between Derrick Corporation and Martin Engineering.



Cougar® Truck Vibrators boost productivity by thoroughly and evenly unloading material. After patenting the world's first 12-volt truck vibrator in 1964, we continue to make the most rugged and reliable truck vibrators on the market.

COUGAR®

DC SERIES

TRUCK VIBRATOR



DC-3200/-2700/-2500/-1600/-1100

- 1000-3200 force-lbs at 4000-5000 vpm
- Available in 12 and 24 volt

COUGAR®

MDC SERIES

TRUCK VIBRATOR



MDC12-400/700

- Available in 400 or 700 pounds of force
- Available in 12 or 24 volt

COUGAR®

SDC SERIES

TRUCK VIBRATOR



SDC12-40/100/200

- Up to 200 pounds of force
- Available in 12 volt

THD
TRUCK VIBRATOR



THD-2500/1600

- · Ideal for dump trucks
- Good for self-powered heavy equipment

TRUCK APPLICATION

Model	Dump Truck				Spreaders			er	per ks	SIS			ß	
	Standard			Tandem Live Bottom	Slide- In	Mount- ed	Tailg or A	jate .TV	Concrete Pumper	Sanitation, Pumper & Vacuum Trucks	Volumetric Mixers	Mixer Trucks	Grain Trailers	Fertilizer Tenders
	1-5 yards	5-10 yards	11+ yards	15-30 yards	5-10 yards	5-10 yards	.2-2 yards	2-4 yards	Conc	Sanita & Vac	Volur	Σ	Gr	Fertil
DC 3200			х	х		х				х				
DC 2700		Х				х				х				
DC 2500		х				х				х				
DC 1600	Х				Х	х								
DC 1100	Х				Х									
MDCV-700					Х						Х			х
MDC 400					Х				Х					
SDC 200								х	Х					
SDC 100							х							
SDC 40							х							
THD-2500 (hydraulic)		х	х	х						х				
THD-1600	Х													
AP5-200-Y (pneumatic)											х		х	
ATU-43												Х		

AP5 SERIES

PISTON VIBRATORS



AP5-200-Y

- · Never need service when used with filtered or lubricated air
- Great for sticky, coarse, or high-moisture material

ATU SERIES

TURBINE VIBRATORS



ATU-62

- Mounts easily with cradle lug brackets
- Low-noise for indoor application



Martin® vibrators solve common problems in the precast concrete industry. With electric and pneumatic options, Martin vibrators will improve productivity and increase material strength and compaction.

MB36-3000
CONCRETE-FORM VIBRATOR

U1-1600 HIGH-FREQUENCY



VIBROTOR[™] CCR VIBRATOR



- · CSA certified
- Fully interchangeable with Hawkeye* and BRECON** units
- Includes overload and current protection
- Optional speed control
- Long-lasting
- Easily mounted using brackets

^{*}There is no affiliation between HawkeyePedershaab and Martin Engineering.

^{**}There is no affiliation between BRECON Vibrationstechnik GmbH and Martin Engineering.



Railcar vibrators from Martin Engineering provide powerful vibration that enhances material flow for faster and safer unloading.

3-INCH IMPACTING

RAILCAR VIBRATOR



- Includes a handle for easy placement and removal
- Lightweight at 49 pounds

VIBROTOR™ CCR

VIBRATOR



- Long-lasting
- Easily mounted using brackets

BRUTE® CCV

VIBRATOR



- Clamp foot for portability and positive mounting
- Adjustable eccentrics





GLOBAL LOCATIONS



MARTIN ENGINEERING AUSTRALIA PTY LTD (HEAD OFFICE)

20 Ern Harley Dr Burleigh Heads, QLD 4220 Australia

Phone: 1300 627 364 mea@martin-eng.com www.martin-eng.com.au

