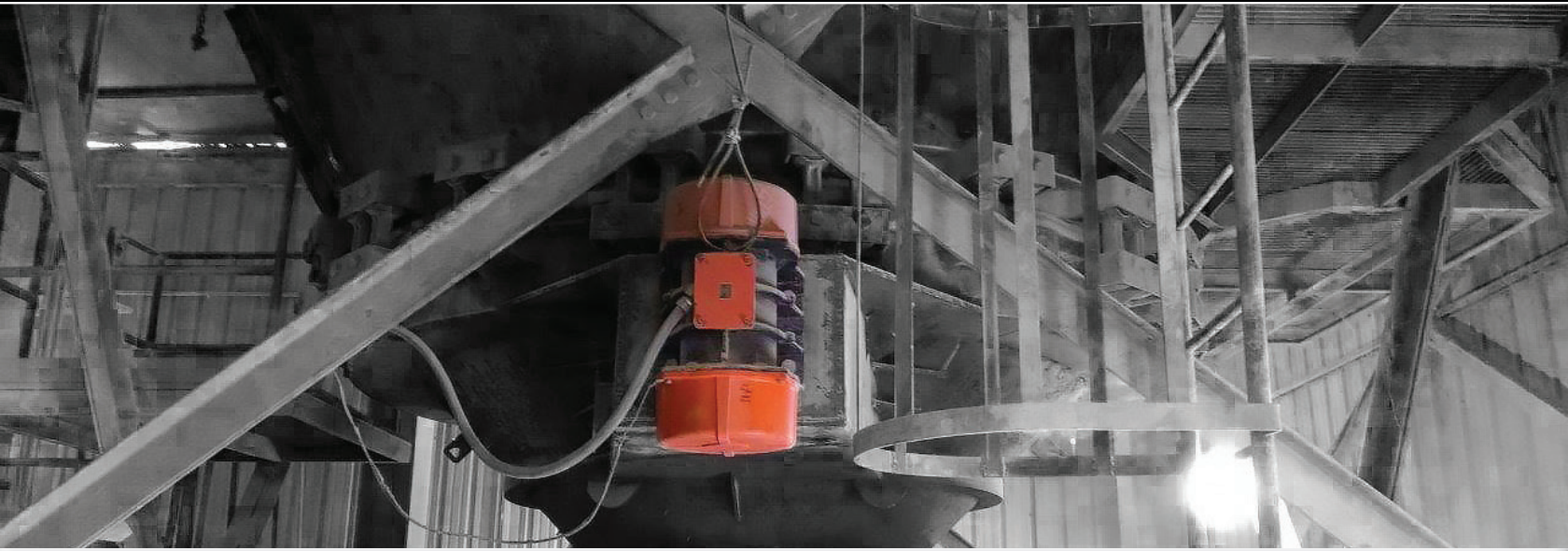




VIBRATION SOLUTIONS

ENHANCING THE FLOW OF MATERIAL

L3665



vibrators **BUILT TO SHAKE STRONGER LONGER**



WHY MARTIN?

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.

SOLUTIONS BY APPLICATION

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

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

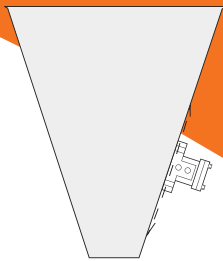
Availability of compressed air, electric, or hydraulic power may dictate choice.



LINEAR vs ROTATIONAL FORCE



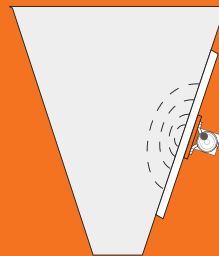
LINEAR FORCE for WET/STICKY MATERIAL



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

BIN, CHUTE, AND HOPPER VIBRATION

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

FOOT-MOUNTED ELECTRICS

MARTIN®
MM SERIES
ELECTRIC VIBRATORS



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

ROTARY PNEUMATIC

VIBROLLER® ROLLER VIBRATORS



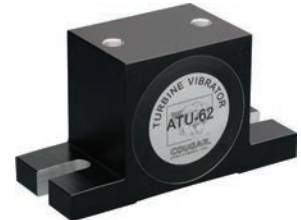
- Low air consumption
- High frequency

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

THUMPER™ SERIES TIMED IMPACTOR



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

PV SERIES PISTON VIBRATORS



- Stronger robust design
- Suitable for high temperature applications

2000 SERIES PISTON VIBRATORS



- Broad application range
- High-frequency, high-impact energy

VIBRATORY EQUIPMENT

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

MARTIN® **SCREEN** VIBRATORS



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

MARTIN® **MFS-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

MOBILE TRUCK VIBRATION

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				Concrete Pumper	Sanitation, Pumper & Vacuum Trucks	Volumetric Mixers	Mixer Trucks	Grain Trailers	Fertilizer Tenders
	Standard			Tandem Live Bottom	Slide- In	Mount- ed	Tailgate or ATV							
	1-5 yards	5-10 yards	11+ yards	15-30 yards	5-10 yards	5-10 yards	.2-2 yards	2-4 yards						
DC 3200			X	X		X				X				
DC 2700		X				X				X				
DC 2500		X				X				X				
DC 1600	X				X	X								
DC 1100	X				X									
MDCV-700					X						X			X
MDC 400					X				X					
SDC 200								X	X					
SDC 100							X							
SDC 40							X							
THD-2500 (hydraulic)		X	X	X						X				
THD-1600	X													
AP5-200-Y (pneumatic)											X		X	
ATU-43												X		

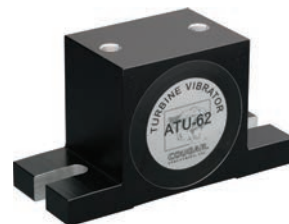
AP5 SERIES PISTON VIBRATORS



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

CONCRETE CONSOLIDATION

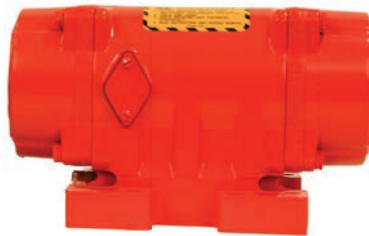
Martin® vibrators solve common problems in the precast concrete industry. With electric and pneumatic options, Martin vibrators will improve productivity and increase material strength and compaction.

MB36-3000 CONCRETE-FORM VIBRATOR



- CSA certified
- Fully interchangeable with Hawkeye* and BRECON** units

U1-1600 HIGH-FREQUENCY



- Includes overload and current protection
- Optional speed control

VIBROTOR™ CCR VIBRATOR



- 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 VIBRATION

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



UNITED STATES



AUSTRALIA



BRAZIL



CHINA



FRANCE



GERMANY



INDIA



INDONESIA



ITALY



MEXICO



PERU



RUSSIA



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