

# ***m*innich**

CONCRETE VIBRATORS & DOWEL PIN DRILLS

## ***Flex Shaft Vibrators***



***Electric & Gasoline***



# Why do Minnich Electric Vibrators last longer?

Aluminum Ribbed Casting  
for greater cooling

Squirrel Cage Fan  
for greater cooling

Larger Armatures  
for longer motor life

Optional  
Quick  
Release

Cover Over  
Brush Caps  
for easier  
access

Heavy  
Duty  
Bearings

Protected  
Air Inlet  
prevents  
concrete  
clogging

Larger Brushes  
requires less maintenance  
and provides longer motor life

Heavy Duty Vibration Isolators  
for less operator fatigue

Double Bar Frame  
for better balance and  
to protect the switch

Power Cord  
Strain Relief  
for extra protection

Core Strain Relief  
for extra protection

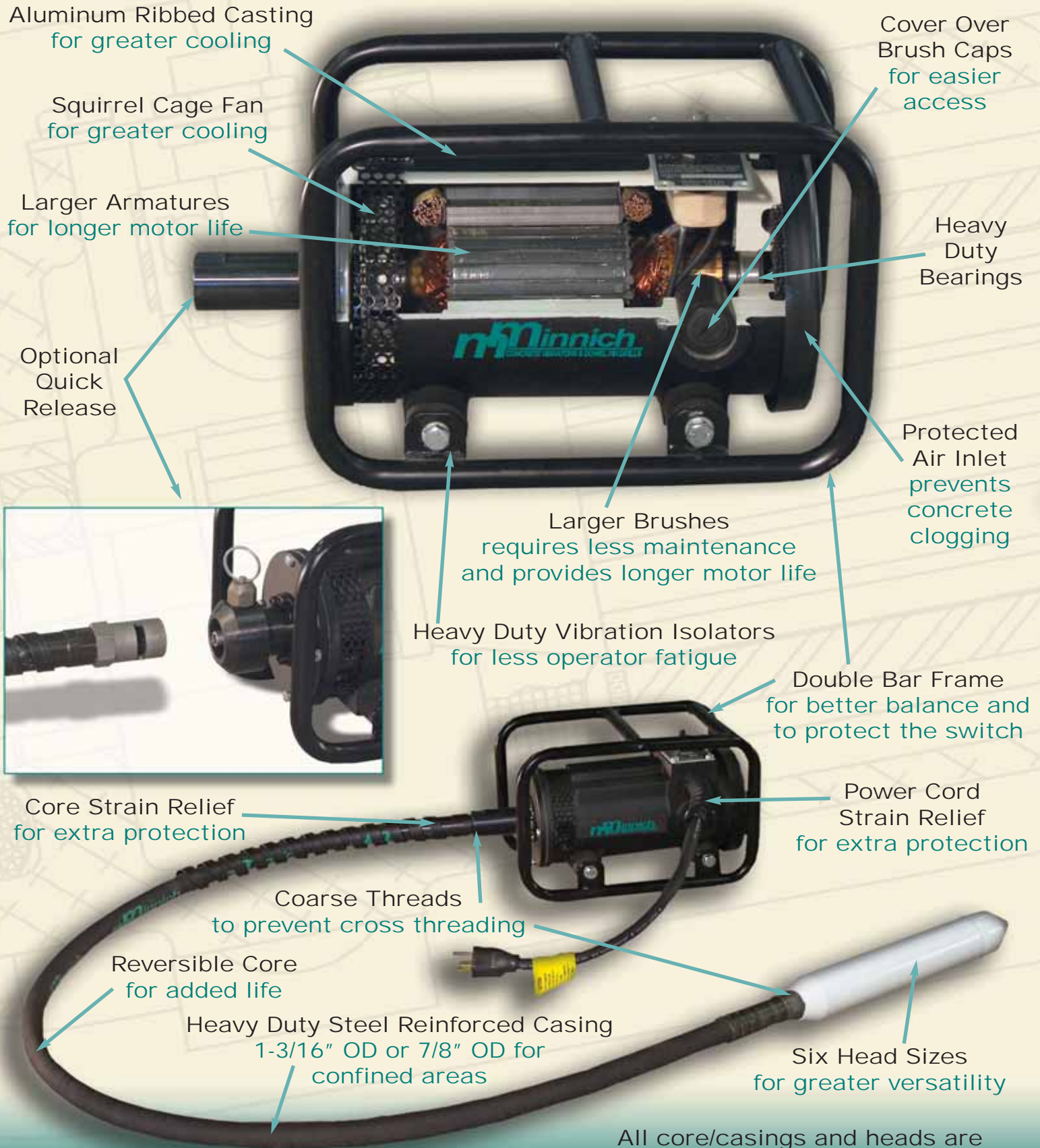
Coarse Threads  
to prevent cross threading

Reversible Core  
for added life

Heavy Duty Steel Reinforced Casing  
1-3/16" OD or 7/8" OD for  
confined areas

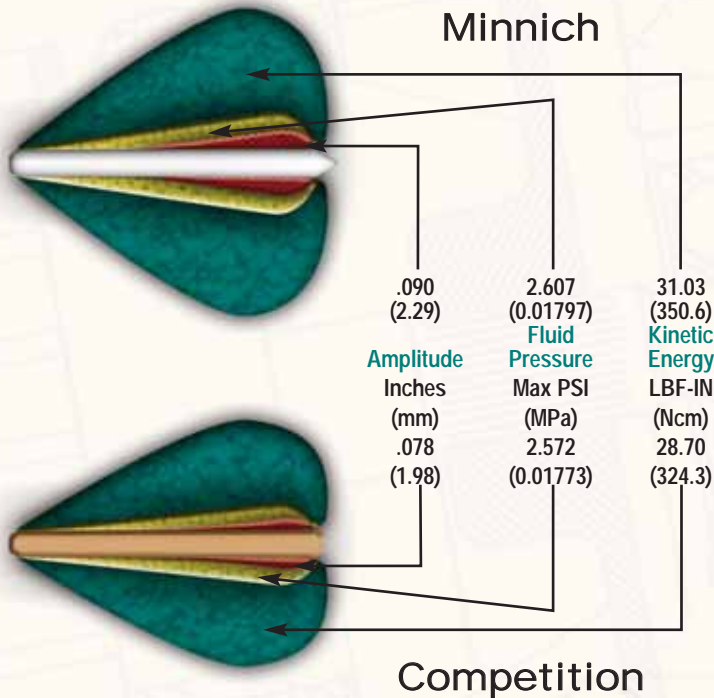
Six Head Sizes  
for greater versatility

All core/casings and heads are  
interchangeable with all motors  
and gas powered back pack.



# This is what the research shows!

## Vibrator Effectiveness In Concrete

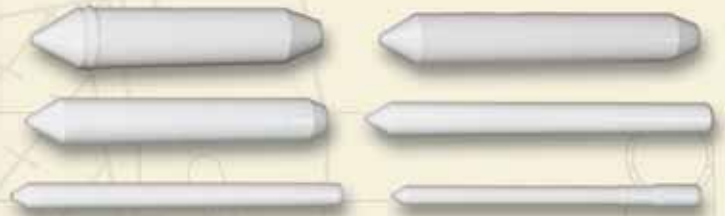


## Round vibrator heads produce:

- Better Consolidation
- Greater Amplitude
- Greater Velocity
- Greater Influence

An independent research firm, hired by Minnich Manufacturing, conducted a thorough study comparing the round vibrator head to other existing shapes available on the market today. The results provided, gave clear evidence that the Minnich round design offered greater amplitude, greater fluid pressure, and greater kinetic energy, resulting in a greater diameter of influence.\*

Select a head for your specific needs.



## Recommended AWG Wire Size for Extension Cords

Motor		HC	1500	2500	3500	Head Diameter	Centrifugal Force	Amplitude	Diameter of Influence
Rated Amps		3A	9A	15A	20A	3/4" (19mm)	105lbs. (467N)	.050" (1.27mm)	4" - 6" (101mm-152mm)
Cord Length	25' (7.6m)	18ga	18ga	16ga	14ga	1" (25mm)	151lbs. (671N)	.056" (1.42mm)	5" - 7" (127mm-177mm)
	50' (15.3m)	14ga	14ga	12ga	12ga	1-3/8" (35mm)	424lbs. (1886N)	.070" (1.77mm)	8" - 14" (203mm-355mm)
	100' (30.5m)	12ga	12ga	10ga	8ga	1-3/4" (45mm)	795lbs. (3536N)	.102" (2.59mm)	16" - 20" (406mm-508mm)
	150' (45.8m)	10ga	10ga	8ga	6ga	2" (50mm)	1000lbs. (4448N)	.090" (2.28mm)	20" - 24" (508mm-609mm)
	200' (61.0m)	8ga	8ga	6ga	6ga	2-3/8" (60mm)	1186lbs. (5275N)	.092" (2.33mm)	23" - 27" (584mm-685mm)

High Cycle	1500 Motor grounded	2500 Motor grounded	3500 Motor grounded
Weight: 14lbs. (6.4kg)	Weight: 14lbs. (6.4kg)	Weight: 17lbs. (7.7kg)	Weight: 21lbs. (10kg)
Amp: 3(115V), 1.5(230V) 3ph 180 cycle	Amperage: 9(115V), 4.5(230V)	Amperage: 15(115V), 7.5(230V)	Amperage 20(115V), 10(230V)
Shafts: 2', 5', 7', 10', 14', 21'	Shafts: 2', 5', 7'	Shafts: 2', 5', 7', 10', 14', 21'	Shafts: 2', 5', 7', 10', 14', 21'
Heads: 3/4" thru 2-3/8"	Heads: 3/4", 1", 1-3/8"	Heads: 1-3/8", 1-3/4", 2", 2-3/8"	Heads: 1-3/8", 1-3/4", 2", 2-3/8"

Shaft Length	2' (.6m)	5' (1.5m)	7' (2.1m)	10' (3.0m)	14' (4.3m)	21' (6.4m)
7/8" (22.2mm) OD Casing Recommended Head Sizes	3/4", 1", 1-3/8", 1-3/4"	3/4", 1", 1-3/8", 1-3/4"	3/4", 1", 1-3/8", 1-3/4"	3/4", 1", 1-3/8"	3/4", 1"	3/4", 1"
1-3/16" (30.1mm) OD Casing Recommended Head Sizes	1-3/8", 1-3/4", 2", 2-3/8"	1-3/8", 1-3/4", 2", 2-3/8"	1-3/8", 1-3/4", 2", 2-3/8"	1-3/8", 1-3/4", 2", 2-3/8"	1-3/8", 1-3/4", 2", 2-3/8"	1-3/8", 1-3/4", 2", 2-3/8"

\* Research data available upon request



# Gas Powered Vibrators

## Honda Mini 4-Stroke Hand Held or Back Pack Concrete Vibrator



Padded shoulder harness is standard on the hand held.

Double strap shoulder harness is standard on the back pack.

Vibrator heads are interchangeable with all electric and gas powered motors.

All core/casings are interchangeable with all motors and the gas powered back pack.

### Specifications:

Engine: - - - Honda GX35 Mini 4-Stroke  
Power: - - - 1.3 HP (1.0 KW)

RPM (Engine/Head): - - 8,000 - 9,000  
Displacement: - - 35CC  
Fuel Tank Capacity: - - - 20 FL OZ (.59L)  
Clutch: - - - - - 2 Shoe Centrifugal  
Ignition: - - - - - Electric

Carburetor: - All Position Diaphragm  
Primer for easy start  
Mount: - - - - Anti-Vibration  
Weight: - - - Back Pack 19.5lbs (8.84kg)  
Hand Held 12.75lbs (5.78kg)

Recommended Shaft Length for Back Pack		
7' (2.13m)	10' (3.05m)	14' (4.27m)

Recommended Shaft Length for Hand Held		
3' straight rigid with 2' flex	3' bent rigid with 2' flex	2' straight rigid with 5' flex

Recommended Head Diameter	Lbs. of Centrifugal Force	Amplitude	Average Diameter of Influence
3/4" (19mm)	105lbs. (467N)	.050" (1.27mm)	4" - 6" (101mm-152mm)
1" (25mm)	151lbs. (671N)	.056" (1.42mm)	5" - 7" (127mm-177mm)
1-3/8" (35mm)	424lbs. (1886N)	.070" (1.77mm)	8" - 14" (203mm-355mm)
1-3/4" (45mm)*	795lbs. (3536N)	.102" (2.59mm)	16" - 20" (406mm-508mm)
2" (50mm)**	1000lbs. (4448N)	.090" (2.28mm)	20" - 24" (508mm-609mm)
2-3/8" (60mm)**	1186lbs. (5275N)	.092" (2.33mm)	23" - 27" (584mm-685mm)

\* not recommended for 14' shaft

\*\* not recommended for 10' or 14' shaft



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