WORKMASTER®

WE FIND A WAY — OR MAKE ONE!

VIBRA-TAK®

SLIDE RULE TACHOMETER

Address:	284 Three Tun Rd.
	Malvern, PA 19355
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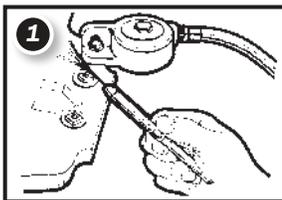# VIBRA-TAK®
SLIDE RULE TACHOMETER

The **VIBRA-TAK® Slide Rule Tachometer** is an easy-to-use tool for accurately measuring the speed of a vibrating or rotating object. Protected in a durable vinyl storage case, it's the ideal pocket size troubleshooting tool for shop and field mechanics, engineers, and service technicians. The VIBRA-TAK® is accurate to ± 7%, and, after thousands of uses, can be easily re-calibrated by either gently compressing the unit's 4-sectioned Bullet Nose to reduce the Reed-to-Bullet Nose mechanical play or replacing a worn or damaged Vibrating Reed.

MODEL	RANGE	PART #
STD-TAK	2,000 to 21,000 RPM/VPM	31-10000
SLO-TAK	200 to 2,000 RPM/VPM	31-10001

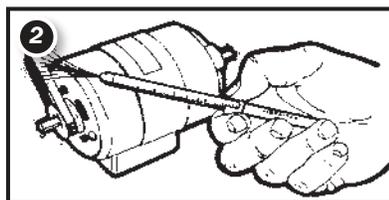VIBRA-TAK® Slide Rule Tachometer and Durable Vinyl Case
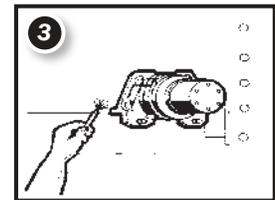
APPLICATIONS INCLUDE:

- **Measuring Vibrations-per-minute (VPM)**
- **Checking RPM of both high & low speed machines**
- **Finding source of unwanted vibration**
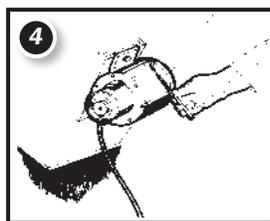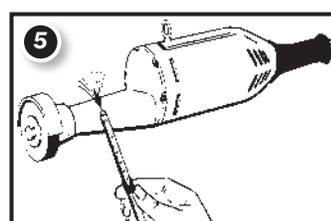- **Locating "Dead Spots" on Vibration Equipment**

Measure VPM on Foundry Match Plate

Check Electric Motor RPM

Measure Vibrator RPM to Help Correct Dangerous Overspeed or Inefficient Underspeed

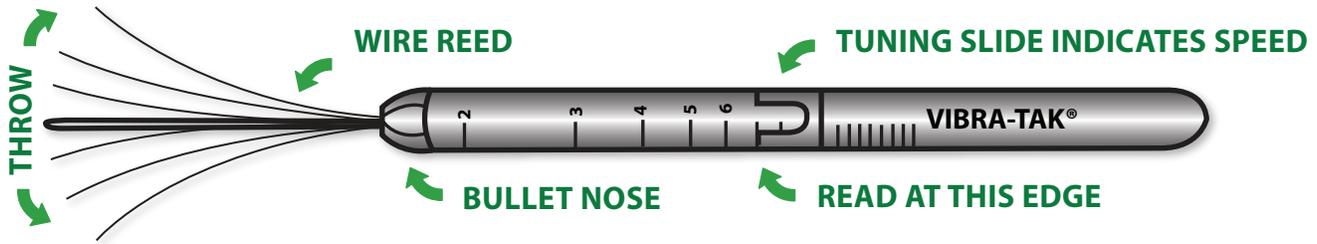Proper speed indicates good vibrator mounting on bins, hoppers, or forms

Check speed of Grinders to match wheel speed to tool speed

PN: 10-00061

VIBRA-TAK®
SLIDE RULE TACHOMETER

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THROW

WIRE REED

TUNING SLIDE INDICATES SPEED

2   3   4   5   6   VIBRA-TAK®

BULLET NOSE

READ AT THIS EDGE

HOW TO USE

1. Press the Bullet Nose against the rotating/vibrating object.
   NOTE: When using on air vibrators, place the Bullet Nose on the air hose about 4" from the vibrator's inlet.

2. Move Tuning Slide up / down until Reed reaches maximum "throw". For most accurate results, average 3 readings.

3. SLO-TAK: Multiply reading by 100 for VPM, or shaft RPM.
   STD-TAK: Multiply reading by 1,000 for VPM, or shaft RPM.

4. The Reed's "throw" is in direct proportion to speed and amplitude. Each 1/2" of "throw" equals .001" amplitude.

FOR INTERNAL COMBUSTION ENGINES

This instrument will give a direct read of crank-shaft speed for 1&2 cylinder 4-cycle engines.

To check the RPM of internal combustion engines, remember that the VIBRA-TAK Vibration gives the number of power impulses. Therefore, to measure power RPM on:

   2-Cycle Engines: Divide reading by the number of cylinders.

   4-Cycle Engines: Divide reading by 1/2 the number of cylinders.

FOR VIBRATORS, AIR & ELECTRIC MOTORS, & POWER TOOLS

When checking air and electric motors, tools, or vibrators, the instrument is direct-read. On power tools, and engines on mowers, boats, model planes, etc., press the VIBRA-TAK®'s Bullet Nose against an area where vibration can be felt with fingers; On air vibrators press the Nose against the air supply hose about 4" from the vibrator's inlet.

Workmaster® line of Hopper Car Unloading Products

ranging from our wide selection of gate openers and railcar vibrators to our railcar pocket-to-undertrack conveyor connectors, offers total solutions to the vexing problems of unloading hopper cars.

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WORKMASTER® is a manufacturer of labor savings bulk material handling tools to help safely and efficiently unload, transport, store and process bulk solids from hopper bottom railcars, bulk trailers, bins, silos and chutes. To help Customers gain maximum benefit from our bulk materials handling tools and equipment, we also supply a complete line of operating, mounting, and maintenance products and accessories, such as Timers and Motor Controls, Vibrator Mounts, and Lubricating Oils to help keep your unloading site tools running longer and more efficiently. WORKMASTER products help Customers work more safely and efficiently, increase the lifespan of production-critical equipment, and decrease operating and maintenance costs of tools and equipment used in some of Industry's most dangerous, difficult, and dirty jobs.

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