

WORKMASTER[®]

WE FIND A WAY — OR MAKE ONE!



MOTOSCREED[™]

VIBRATORY BEAM SCREED

Master Distributor

AIRMA[®]
WE'LL HANDLE IT.

airmatic.com

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NEW BREED OF SCREED

The **MOTOSCREED Vibratory Beam Screed** incorporates dual 120VAC Vibratory Motors (speed and force synchronized), which are uniquely mounted to a 6"W x 4"H x 6' to 18' L aluminum beam to produce a Screed which not only spreads, levels, surface-finishes and consolidates conventional, high-flow, and self-compacting concrete, but also self-propels down the Form.

SELF-PROPELLED CONSOLIDATION SCREEDING

The **MOTOSCREED** design – engineered and manufactured by applied vibration specialists – enables the Vibratory Motors to generate a rectilinear motion which self-propels the Screed

along the Form's rails as it strikes-off and straight-edges the concrete. Simultaneously, the Vibrators produce a downward centrifugal force of up to 1320 Lbf at 3600 vibrations-per-minute to both surface-finish, and consolidate the concrete to a depth of 12" to 18". The self-propelled feature provides two distinct advantages: **Safety** and **Speed**.

- Self-propelled motion means Operators can safely and easily guide the Screed along the Form's rails without the usual pulling, pushing, and holding. This greatly reduces hand/arm musculoskeletal disorders associated with the regular use of traditional vibratory equipment.
- Self-propelled motion, when combined with adequate centrifugal force, allows the Screed to be moved more rapidly down the Form to preclude too much mortar being brought to the surface in normal weight concrete; or too much coarse aggregate being brought to the surface in lightweight concrete.

VIBRATORY CONSOLIDATION – NOT VIBRATOR NOISE

Although the dual 120VAC Vibratory Motors operate quietly (less than 70dBa), the synchronized Vibrators operate powerfully and efficiently, producing the amplitude, frequency and centrifugal force required for ideal consolidation and finishing. The Vibrators are activated with a soft-touch ON/OFF switch built into the vibration-isolated Control Box. The Control Box can be mounted to either end of the Screed so as to minimize electrical cord clutter.



ISOLATED CONTROL ARMS

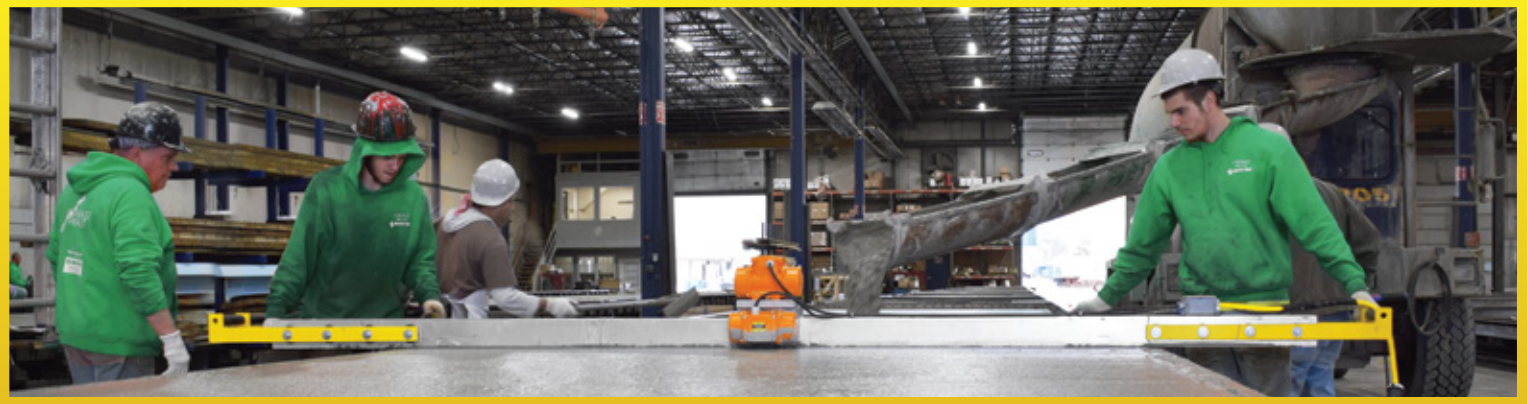
Each of the four (4) Control Arms are isolated from the Screed with three (3) sets of molded rubber mounts which greatly reduces vibration transfer to workers, protecting them from hand/arm vibration syndrome (HAVS), a nerve disorder that can become disabling.

TWO 120 VAC HD VIBRATORS

Dual, heavy-duty Vibratory Motors (speed and force synchronized), are rigidly mounted in a forward-balanced plane to not only produce a linear force that optimizes leveling, consolidating and finishing, but also self-propels the Screed down the Form.

6' L THRU 18' L SCREED BEAMS

The **MOTOSCREED** uses lightweight, high strength, corrosion-resistant, architectural grade aluminum tube-beams with an optimal sized 6" W flat face that provides the ideal surface area to transmit the vibration that is required to level and smooth-finish the concrete in a single pass – no tracking or pulling.



BENEFITS

- **SELF-PROPELLED** – Traditional screeds require considerable-effort to push/pull the unit down the Form. The Motoscreed greatly reduces that effort, allowing Operators to simply guide the Screed down the Form.
- **ADJUSTABLE FORCE VIBRATORS** – Consistent spreading, leveling, surface-finishing, and consolidating concrete is determined by matching the centrifugal force output of the Screed's Vibrators with the concrete's variables (type, mix, slump, etc.). To account for these variables the force settings of the **MOTOSCREED** Motors are adjustable to 10 settings of Force.
- **UNIFORM VIBRATION** – The Vibrators unique mount design provides uniform linear force vibration over the entire length of the Screed to enable more complete and faster leveling and consolidation than traditional vibratory methods.

The **MOTOSCREED** glides along the Form's rails on the steel Control Arms. When determining size, choose a length that can be used on multiple Forms but with no more than 1ft of Beam overhang on each side of the Form to limit dissipation of vibration caused by Screed flexure, eg, a 10ft Screed for a 10ft Form will also work will on an 8ft Form, but not a 6ft Form. When working in close quarters be sure to consider that the 2 handles on the Screed will add a total of 14in to the length, eg, a 10ft **MOTOSCREED** have an overall length of 11ft-2in.

The **MOTOSCREED** is ideal for use on Flat Slabs, Wall Panels, Architectural Panels, Insulated Panels, Superior Walls® Panels, Double T's, Bridge Decks, Spandrel Beams, NEXT Beams, Preparation for Stamped Panels and singular products!

ANTI-VIBRATION HAND GRIPS
Hand Grips incorporate vibration-dampening wraps to reduce muscle and joint injuries as the Operators merely guide the Screed down the Form.

7"

CONTROL BOX

The Control Box is filled with anti-static foam to protect and prevent movement of capacitors, wiring harness, and side-mounted ON/OFF Toggle Switch, and is then mounted with vibration-isolators to either the LEFT or RIGHT end of the Screed (Customer choice based on location of power source).

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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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