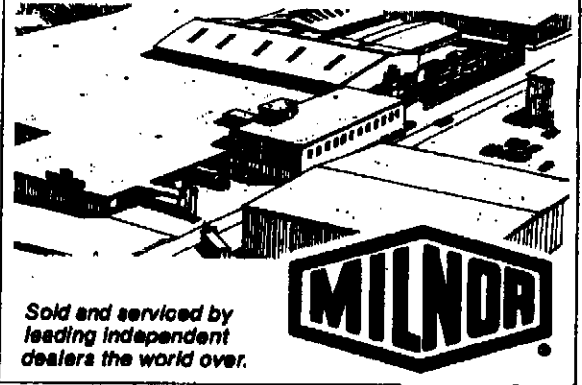


Dealer Bulletin

PELLERIN MILNOR CORPORATION
P. O. Box 400, Kenner, LA 70063 (a suburb of New Orleans)



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DEALER BULLETIN B22DB91024
Reissued September 18, 1992

**RE: CURRENT BUILDING CONSTRUCTION TECHNIQUES
CAN CAUSE SERIOUS VIBRATION PROBLEMS!**

Dear MILNOR Dealer:

How many times have you heard it said, "They just don't build them like they used to"?

Today's building construction techniques can cause vibration problems in upper floor installations of any manufacturer's rigid or flexibly-mounted washer-extractors. It is even possible for on-grade installations to transmit vibrations to upper floors. Such problems will occur if the floor is not strong enough, and especially if the floor isn't rigid enough as when the natural frequency of the floor or building is close to the operating speeds of the machinery. This is even true of MILNOR's flexibly-mounted HYDRO-CUSHION machine which has long been the standard for our industry.

What has been published about HYDRO-CUSHION machines in the past was appropriate for the buildings of yesteryear. However, building and construction techniques have changed so radically in recent years that new construction simply may not be rigid enough to support any rotating or reciprocating machinery even if the building otherwise meets all code requirements including the minimum live load mandated by the applicable building code.

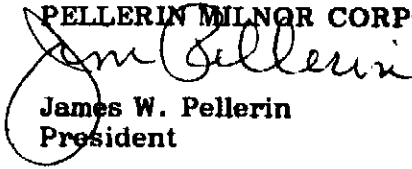
Before such machinery is offered or sold for installation on any floor not on grade, it is imperative that your customer obtain a recommendation from qualified professional engineers, based on a thorough analysis of the static, live load, and dynamic force characteristics of any rotating or reciprocating machinery. This applies not only to washer-extractors but also to such machines as ironers, dryers and air compressors.

On the other hand, if an existing upper floor has been successfully supporting suspension-mounted washer-extractors (of any brand), a MILNOR HYDRO-CUSHION machine of the same capacity can most certainly replace it without causing additional vibration, or MILNOR will accept return of the machine for full credit.

For your own protection -- and for your customer's protection -- please be sure to make your customer aware of these potential problems at the very beginning of any project.

Sincerely,

PELLERIN MILNOR CORPORATION


James W. Pellerin
President

JWP/ebd

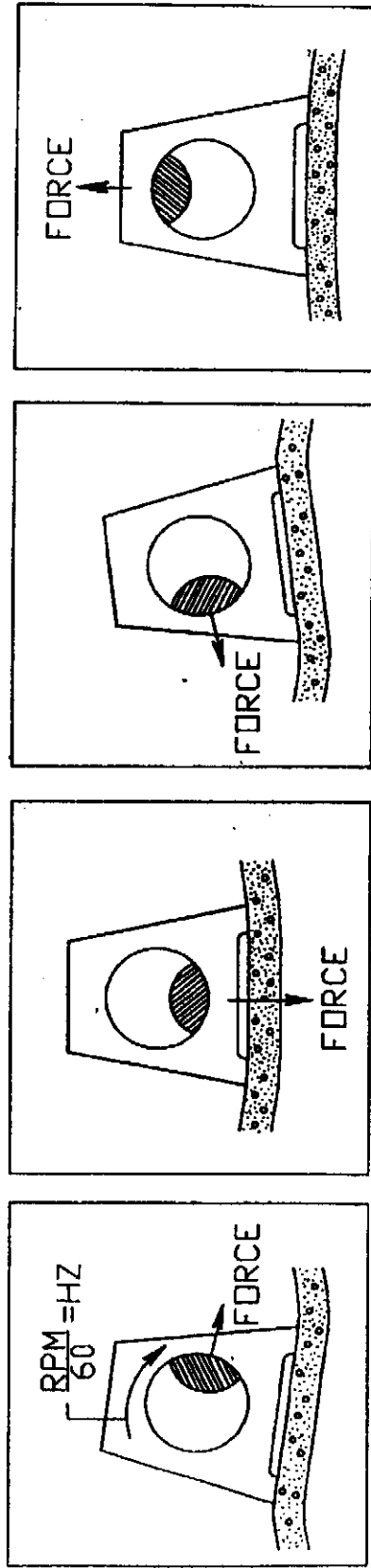
P. S. SEE OVER (B22DB91025/*91402) FOR MORE IMPORTANT INFORMATION.

ABOUT THE FORCES TRANSMITTED BY MILNOR WASHER-EXTRACTORS—During both washing and extracting, all washer-extractors transmit both static and dynamic or cyclic forces to the floor, to the foundation, or to any other supporting structure. During washing, the impact of the goods as they drop imparts forces which are quite difficult to quantify. Size for size, both rigid and flexibly-mounted machines transmit approximately the same forces during washing. During extracting, "rigid" machines transmit forces up to 30 times greater than equivalent "flexibly-mounted" models. The actual magnitude of these forces vary—depending on the machine size; the final extraction speed; the amount, condition and type of goods being processed; the liquor level and chemical conditions in the bath preceding extraction; and on several other factors. Estimates of the maximum force normally encountered are available for each MILNOR model and size upon request. Floor or foundation sizes shown on any MILNOR document are only for on-grade situations based only on previous experience without implying any warranty, obligation or responsibility on our part.

RIGID MACHINES—Size for size, rigid washer-extractors naturally require a stronger, more rigid floor, foundation or other supporting structure than flexibly-mounted models. Providing the supporting soil under the slab is itself strong and rigid enough and has not subsided to leave the floor slab suspended without support, "on grade" installations can often be made directly to an existing floor slab if it has sufficient strength and rigidity to safely withstand our published forces without transmitting undue vibration. If the subsoil has subsided, or if the floor slab itself has insufficient strength and rigidity, a deeper foundation, poured as to become monolithic with the floor slab, may be required. Support piles may even be required if the subsoil itself is "springy" (i.e. if its resonant frequency is near the machine's operating speed). Above grade installations of rigid machines also require a sufficiently strong and rigid floor or other supporting structure as described below.

FLEXIBLY-MOUNTED MACHINES—Size for size, flexibly-mounted machines generally do not require as strong a floor, foundation or other supporting structure as do rigid machines. However, a floor or other supporting structure having sufficient strength and rigidity (as described below) is nonetheless vitally important for these models as well.

HOW STRONG AND RIGID? Many USA building codes specify that laundry floors must have a minimum live load capability of 150 pounds per square foot (732 kg per square meter). However, even compliance with this or any other standard does not necessarily guarantee sufficient rigidity. In any event, it is the sole responsibility of the owner/user to assure that the floor and/or any other supporting structure exceeds not only all applicable building codes, but also that the floor and/or any other supporting structure for each washer-extractor or group of washer-extractors actually has sufficient strength and rigidity, plus a reasonable factor of safety for both, to support the weight of all the fully loaded machine(s) including the weight of the water and goods, and including the published 360° rotating sinusoidal RMS forces that are transmitted by the machine(s). Moreover, the floor, foundation, or other supporting structure must have sufficient rigidity (i.e. a natural or resonant frequency many times greater than the machine speed with a reasonable factor of safety), otherwise the mentioned 360° rotating sinusoidal RMS forces can be multiplied and magnified many times. It is especially important to consider all potential vibration problems that might occur due to all possible combinations of forcing frequencies (rotating speeds) of the machine(s) compared to the natural frequencies of the floor and/or any other supporting structure(s). A qualified soil and/or structural engineer must be engaged for this purpose.



The above illustrations are intended to depict both "on-grade" and "above grade" installations and are equally applicable to flexibly-mounted washer-extractors, as well as to rigid models installed either directly on a floor slab or on a foundation poured integrally with the slab. Current machine data is available from MILNOR upon request. All data subject to change without notice and may have changed since last printed. It is the sole responsibility of every potential owner to obtain written confirmation that any data furnished by MILNOR applies for the model(s) and serial number(s) of the specific machine(s).

PELLERIN MILNOR CORPORATION

WARRANTY

We guarantee to the original purchaser that MILNOR® machines will be free from defects in material and workmanship for a period of 12 months from the date of shipment from our factory.

CONDITIONS

Providing we receive written notification of any defects within 30 days of a defect and within 12 months of the date of shipment, and providing such equipment is found by us to be defective, we will—at our option—repair or replace the defective part or parts, FOB our factory, subject to our inspection of the parts claimed defective. We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same, under this warranty.

EXCLUSIONS

Any component of our machines not manufactured by us, including but not limited to electric motors, is not included in our warranty, and is in no way guaranteed by us, whether or not such component has been furnished by us. In particular, electric motors which fail must be serviced by the motor repair shop authorized by the manufacturer of the particular motor on your machine. Service by unauthorized persons disqualifies the warranty provisions of all motor manufacturers. (If you do not know the nearest authorized repair station for your motor or other component not manufactured by us, we will gladly furnish this information upon request providing you advise us of the serial number of your machine and the full nameplate data of the motor or other component.) We shall not be responsible, or in any way liable, for unauthorized repairs or service to our machines and/or the component parts thereof.

This warranty is void if the machine is not installed, operated and serviced as specified in the operating manual supplied with the machine, or if the machine is not operated under normal conditions and by competent operators.

Parts which require routine replacement due to normal wear—such as gaskets, contact points, brake and clutch linings and similar parts—are not covered by this warranty, nor are parts damaged by corrosion caused by exposure to weather or to chemicals.

We assume no liability for consequential or incidental damage attributable to the failure of any part of the machine (including parts repaired or replaced by us).

We reserve the right to make changes in design or in the construction of our equipment (including purchased components) without obligation to change any equipment previously manufactured by us.

This warranty does not cover machinery manufactured by others which is not an integral part of our machinery but which is sold by MILNOR for use in conjunction with its machinery. This machinery may, however, be covered by a warranty of the other manufacturer.

This warranty is expressly in lieu of any and all other warranties whether expressed or implied, and any and all other liabilities, including liability for damages, actual, contingent or liquidated. We neither assume, nor authorize any employee or other person to assume for us, any other liability in connection with the sale of our equipment to any buyer.

THIS SALE IS MADE ON THE EXPRESS UNDERSTANDING THAT THERE IS NO IMPLIED WARRANTY THAT OUR MACHINES OR EQUIPMENT SHALL BE MERCHANTABLE, NOR IS THERE ANY WARRANTY EITHER EXPRESSED OR IMPLIED THAT OUR MACHINES OR EQUIPMENT SHALL BE FIT FOR ANY SPECIFIC OR PARTICULAR PURPOSE, OR SHALL BE PRODUCTIVE IN ANY SPECIFIC OR PARTICULAR SITUATION.

Please see the other side for parts ordering procedures.

How to order repair parts

Repair parts may be ordered either from the authorized dealer who sold you this machine, or directly from the MILNOR factory. In most cases, your dealer will have these parts in stock.

When ordering parts, please be sure to give us the following information:

1. Model and serial number of the machine for which the parts are required
2. Part number
3. Name of the part
4. Quantity needed
5. Method of shipment desired
6. In correspondence regarding motors or electrical controls, please include all nameplate data, including wiring diagram number and the make or manufacturer of the motor or controls.

All parts will be shipped C.O.D. transportation charges collect only.

Please read this manual

It is strongly recommended that you read the installation and operating manual before attempting to install or operate your machine. We suggest that this manual be kept in your business office so that it will not become lost.

PELLERIN MILNOR CORPORATION

P.O. BOX 400, KENNER, LA., 70063-0400, U.S.A.

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