

**GI Part 71. Laundry and Dry Cleaning Machinery and Operations
Compared With
29 C.F.R. Laundry machinery and operations**

Summary: The significant differences between GI Part 71. Laundry and Dry Cleaning Machinery and Operations and 29 C.F.R. Laundry machinery and operations are in:

- Employer responsibility
- Employee responsibility
- Illumination
- Floors and aisles
- Lubrication
- Hot surfaces
- Steam pressure procedures
- Hydraulic safety
- Fire safety
- Material handling
- Marking machine and label remover
- Washing machine
- Extractors
- Combination washer-extractor
- Power wringer
- Starching machine
- Tumblers; shake out, conditioning and drying
- Steam drying box and cabinets
- Dampening machine
- Beaters
- Folding machine
- Rollers and unrollers
- Ironers
- Laundry press
- Vertical pants presser
- Vertical coverall or shirt press
- Sewing machines
- Hot patch machine
- Tying machine
- Cover or door interlocks
- Extractors
- Dry cleaning press

The below comparison show only those provisions where MIOSHA rules are different than OSHA or where MIOSHA rules are not included in 29 C.F.R.

****means there is a comparable OSHA rule to this paragraph

MIOSHA	OSHA
<p>R 408.17111 Employer responsibility. Rule 7111. An employer shall do all the following: (a) Provide training to an employee as to the hazards and safe operation of the assigned job. (b) Maintain machinery, building, ramp, platform, and aisles in a condition free of recognized hazards. (c) Provide face and eye protection, as prescribed in Part 33. Personal Protective Equipment, being R 408.13301 et seq. of the Michigan Administrative Code. (d) Provide to an employee, at no expense to the employee, aprons, gloves, and other protective equipment where an acid having a pH of less than 4.0 or a caustic having a pH of greater than 10.0 is handled</p>	<p>No comparable OSHA provision, except for: 1910.264(d)(1)(v) Instruction of employees. Employees shall be properly instructed as to the hazards of their work and be instructed in safe practices, by bulletins, printed rules, and verbal instructions.</p>

MIOSHA	OSHA
<p>R 408.17112 Employee responsibility. Rule 7112. An employee shall: (a) Use personal protective equipment when furnished by the employer. (b) Not use machinery or equipment unless authorized and trained in its use. (c) Not remove guards from machinery and equipment except when necessary for servicing. The guard shall be replaced before restarting the machine. (d) Report defective machinery, equipment and hazardous conditions, when detected, to the employer</p>	<p>No comparable OSHA provision</p>
<p>R 408.17121 Illumination. Rule 7121. Illumination shall be provided at the operator's work station to maintain a minimum of 20 footcandle intensity.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17122 Floors and aisles. Rule 7122. An aisle for combined usage of an employee and powered stock moving equipment shall be 3 feet wider than the widest load moved. The outline of the aisle shall be marked or otherwise indicated</p>	<p>No comparable OSHA provision</p>
<p>R 408.17125 Lubrication. Rule 7125. In all instances of lubrication, rule 732 of the general industry safety standards commission standard, Part 7. Guards for Power Transmission, being R 408.10732 of the Michigan Administrative Code, shall be followed.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17126 Hot surfaces. Rule 7126. Steam and hot water pipes and surfaces of machinery, except those coming in contact with the fabric being processed, which would cause burns if exposed to contact shall be covered with a heat resistive or insulating material or guarded by a barrier.</p>	<p>1910.264 Laundry machinery and operations. 1910.264 (c) Point-of-operation guards 1910.264 (c)(4)(iii) Steam pipes. 1910.264 (c)(4)(iii)(a) All steam pipes that are within 7 feet of the floor or working platform, and with which the worker may come into contact, shall be insulated or covered with a heat-resistive material or shall be otherwise properly guarded</p>
<p>R 408.17128 Steam pressure procedures. Rule 7128. (1) Steam valves to machinery shall be cracked open for several minutes and then opened slowly to avoid uneven expansion of a pressure chamber. (2) The rated operating steam pressure of a machine shall not be exceeded.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17129 Hydraulic safety Rule 7129. A hydraulic system of piping, hose and their component parts shall have a designed safety factor of 4.</p>	<p>No comparable OSHA provision</p>

MIOSHA	OSHA
<p>R 408.17130 Fire safety. Rule 7130. (1) Fabrics which contain a combustible vapor or fluid first shall be rinsed in cold water or maintained not less than 25 feet from spark producing equipment or open flame. (2) Smoking shall be prohibited, except in designated areas. "NO SMOKING" signs shall be posted in these prohibited areas.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17131 Material handling. Rule 7131. (1) A mechanism used to tilt tote boxes shall be enclosed by a standard barrier on 3 sides. (2) Where a chain or cable sling or metal bale is used in connection with lifting by a powered hoist, the hook of the hoist shall be equipped with a safety latch. (3) A screw conveyor less than 8 feet from a floor or platform shall be equipped with a barrier on each side the entire length of the conveyor. The barrier shall project not less than 1 1/2 inches above and below the conveyor to prevent hair entanglement.</p>	<p>No comparable OSHA provision</p>
<p>SPECIFIC PROVISIONS – LAUNDRY</p>	
<p>R 408.17141 Marking machine and label remover. Rule 7141. A marking machine or label remover with an opening of more than 1/4 inch shall be guarded by 1 of the following: (a) A spring compression device designed to prevent injury if the fingers are caught between the marking plunger and the platen. (b) A control device requiring concurrent use of both hands to operate the machine. (c) A barrier designed to prevent contact with the marking plunger.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17142 Washing machine. Rule 7142. (1) The outer door of a double cylinder washing machine shall be interlocked to prevent the inside cylinder from moving when the outer door is open and also to prevent opening the outer door when the inside cylinder is in motion. The use of an inch control is permissible. (2) A single cylinder washing machine shall be guarded as prescribed in R 408.17146. (3) A washing machine shall have a device for holding the outer and inner doors open for loading and unloading.</p>	<p>1910.264 Laundry machinery and operations 1910.264(c) Point-of-operations guards 1910.264(c)(1)(ii) Washing machine. 1910.264(c)(1)(ii)(b) Each washing machine shall be provided with means for holding open the doors or covers of inner and outer cylinders or shells while being loaded or unloaded</p>

MIOSHA	OSHA										
<p>R 408.17143 Extractors.</p> <p>Rule 7143. (1) A rotating extractor shall be equipped with a metal cover interlocked in a manner so as to prevent opening it when the basket is in motion or to prevent power operation of the basket when the cover is open.</p> <p>(2) A rotating extractor shall not be operated at a speed in excess of the rated speed, which speed shall be permanently marked on the machine. Where the rated speed is not available, table 1 shall be followed.</p> <p>(3) A rotating extractor shall be:</p> <p>(a) Equipped with a braking device.</p> <p>(b) Secured to the floor or foundation to prevent lateral movement.</p> <p>(c) Loaded in a manner to keep the extractor in balance.</p> <p>(d) Inspected not less than once a year at points of wear such as, but not limited to, the basket, rings, and cover, and repaired where defects that are a hazard are found.</p> <p>(4) A squeeze extractor shall be equipped with:</p> <p>(a) A cover interlocked to the compacting mechanism which shall prevent the removal of the cover until the pressure has been relieved.</p> <p>(b) A 2-hand control device which shall be operated concurrently to activate the cover placement.</p> <p>(5) A steam, hydraulic, or pneumatic-type squeeze extractor shall be equipped with a pressure relief valve set to open if the applied pressure is 10% more than the maximum rated operating pressure. The maximum operating pressure shall be permanently labeled or marked on the machine.</p> <p>(6) Table 1 reads as follows:</p> <table border="1" data-bbox="115 1167 784 1493"> <thead> <tr> <th colspan="2" data-bbox="115 1167 784 1234">TABLE 1</th> </tr> </thead> <tbody> <tr> <td data-bbox="115 1234 566 1297">30-inch diameter extractor</td> <td data-bbox="566 1234 784 1297">1200 r.p.m.</td> </tr> <tr> <td data-bbox="115 1297 566 1360">40-inch diameter extractor</td> <td data-bbox="566 1297 784 1360">900 r.p.m.</td> </tr> <tr> <td data-bbox="115 1360 566 1423">48-inch diameter extractor</td> <td data-bbox="566 1360 784 1423">750 r.p.m.</td> </tr> <tr> <td data-bbox="115 1423 566 1493">60-inch diameter extractor</td> <td data-bbox="566 1423 784 1493">500 r.p.m.</td> </tr> </tbody> </table>	TABLE 1		30-inch diameter extractor	1200 r.p.m.	40-inch diameter extractor	900 r.p.m.	48-inch diameter extractor	750 r.p.m.	60-inch diameter extractor	500 r.p.m.	<p>No comparable OSHA provision</p>
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<p>R 408.17144 Combination washer-extractor.</p> <p>Rule 7144. A combination washer-extractor shall be:</p> <p>(a) Equipped with a braking device.</p> <p>(b) Equipped with a steel door interlocked to the drive mechanism which will prevent opening the door while the cylinder is in motion and prevent operation while the door is open. An inch control is permissible for internal door models to aid loading and unloading.</p> <p>(c) Mounted on a vibration dampening foundation or be equipped with a device which will shut off the power and apply the brake when the machine is out of balance to a hazardous degree.</p> <p>(d) Equipped to maintain the doors in an open position during loading and unloading.</p>	<p>No comparable OSHA provision</p>										

MIOSHA	OSHA
<p>R 408.17145 Power wringer. Rule 7145. (1) A power wringer shall be equipped with a safety bar or barrier positioned in front of and across the entire front of the first feed or pressure roll so arranged that if the bar or barrier is struck, either the machine will stop or the pressure on the rolls will be relieved. (2) The stopping distance of the feed or pressure roll measured on the circumference shall be not more than 1/2 of the lineal distance measured from the safety bar or barrier to the pinch point.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17146 Starching machine. Rule 7146. A starching machine shall be guarded by an enclosure or barrier to prevent contact with the moving cylinder or box.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17148 Tumblers; shake out, conditioning, and drying. Rule 7148. (1) A tumbler shall be equipped with a safety interlock that will prevent energizing the drive motor unless the door is closed. The interlock shall allow for momentary inching the tumbler cylinder to facilitate loading and unloading. (2)**** (3) A tumbler designed without a door, where the work is continuously loaded and discharged, is excepted from subrules (1) and (2). (4) A single cylinder tumbler shall be guarded as prescribed in R 408.17146.</p>	<p>No comparable OSHA provisions</p> <p>Equivalent</p> <p>No comparable OSHA provision</p>
<p>R 408.17149 Steam drying box and cabinets. Rule 7149. A steam drying box or cabinet having access doors shall be equipped with both inside and outside latches.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17150 Dampening machine. Rule 7150. A roll dampening machine shall be guarded in a manner which will enclose the rolls and prevent an employee's fingers from entering the pinch point.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17151 Beaters. Rule 7151. A beater on a flat work ironer other than one using cloth or canvas beater blades, shall be guarded against accidental contact by the operator.</p>	<p>No comparable OSHA provision</p>

MIOSHA	OSHA
<p>R 408.17152 Folding machine. Rule 7152. (1) A fixed or interlocked removable barrier shall cover the moving parts of a flatwork folding machine. (2) A small piece folding machine shall have access openings covered and interlocked to the power source, where an employee would be exposed to a hazard such as a chain or belt drive.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17153 Rollers and unrollers Rule 7153. (1) A towel roller shall be equipped with a barrier made of plastic or expanded metal electrically interlocked to the power source or interlocked to the clutch and designed to prevent entry into the pinch point created by the 2 inrunning rolls, or it shall be equipped with a 2-hand constant pressure control device. (2) A towel unroller shall be equipped with a barrier to prevent entry of the operator's fingers into the pinch point created by the 2 inrunning rolls, or it shall be equipped with a 2-hand constant pressure control device.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17154 Ironers. Rule 7154. (1) A flatwork ironer shall be equipped with a safety bar or barrier positioned in front of and across the entire front of the first feed or pressure rolls so arranged that striking of the bar or barrier will stop the machine. The stopping distance of the feed or pressure roll measured on the circumference shall be not more than 1/2 of the lineal distance measured from safety bar or barrier to the pinch point. The ends of the pressure rolls shall be guarded by an enclosure or barrier which will prevent contact by an employee. (2) A flatwork ironer shall be equipped with an idler roll, sometimes known as a doffer or finger roll, in front of the safety bar or barrier. (3) A body-type roll or shoe-type sleeve or band ironer shall be guarded as prescribed in subrule (1). The hot roll or shoe shall be covered as prescribed in R 408.17126 to prevent contact with the heated surfaces. (4) A rotary body and coat ironer shall be equipped with a safety bar or barrier across the entire front of the feed roll or shoe so arranged that striking the bar or barrier will stop the machine. The hot roll or shoe shall be covered as prescribed in R 408.17126 to prevent contact with the heated surface.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17155 Laundry press. Rule 7155. (1) A laundry press shall be equipped with a control device requiring concurrent use of both hands until the press has closed and the locking device has taken effect. (2) A laundry press shall be provided with an emergency release bar or button which will instantly release the locking device of the laundry press head.</p>	<p>No comparable OSHA provision</p>

MIOSHA	OSHA
<p>R 408.17156 Vertical pants presser. Rule 7156. A vertical pants presser with a fly clamp except those manually actuated, shall be equipped with a 2-hand control device for the fly clamp and a interlocked door covering the point of operation.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17157 Vertical coverall or shirt press. Rule 7157. A vertical coverall or shirt press having shoulder or yoke clamps shall be equipped with a 2-hand control device.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17158 Sewing machines. Rule 7158. A sewing machine shall be equipped with a permanently attached guard which will prevent a finger from passing between the needle and the pressure foot. The guard design shall allow threading of the needle without removing the guard.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17159 Hot patch machine. Rule 7159. A hot patch machine shall be equipped with a barrier to enclose the point of operation or it shall be equipped with a 2-hand control device.</p>	<p>No comparable OSHA provision</p>
<p>R 408.17160 Tying machine Rule 7160. A tying machine shall be equipped with an enclosure guard around the path of the moving arm so designed as to eliminate any pinching between the table and the guard or the guard and the arm.</p>	<p>No comparable OSHA provision</p>
<p>SPECIAL FOR DRY CLEANING</p>	
<p>R 408.17161 Cover or door interlocks. Rule 7161. (1) An extractor, washer or tumbler used in a dry cleaning operation shall have the covers or doors interlocked to prevent the inside cylinder from moving when the cover or door is open. On an extractor, the interlock shall also prevent the outer door being opened while the inside cylinder is in motion. (2) A combination dry cleaning machine, wherein the washing and extracting cycles are completed within the same enclosure, shall be equipped with a splash-proof cover or door which shall be interlocked as prescribed in subrule (1).</p>	<p>No comparable OSHA provision</p>
<p>R 408.17162 Extractors. Rule 7162. An extractor shall not be operated in excess of its rated speed. If the rated speed is unavailable, table 1 of R 408.17143 shall be followed.</p>	<p>No comparable OSHA provision</p>

MIOSHA	OSHA
<p>R 408.17163 Dry cleaning press. Rule 7163. (1) A dry cleaning press may be actuated by use of 1 hand, but when pressure is increased or a locking device is actuated, 2-hand controls shall be used concurrently. (2) A dry cleaning press shall be provided with an emergency release bar or button which will instantly release the ironing press head from its closed position.</p>	<p>No comparable OSHA provision</p>

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