

# Core Requirements for Preventing Caught-In/Between Injuries and Fatalities in Manufacturing



## Safety actions for machinery and equipment on site

### Installation of safety devices

Legal requirements (Local Rule on the Occupational Safety and Health Standard)	Actions required
<p><b>Preventing risks involving motors, shafts, etc.</b> (Article 87)</p>	<ul style="list-style-type: none"> <li>Install coverings, wools, sleeves, and crossing bridges on/around motors, shafts, gears, pulleys, flywheels, belts, and chains.</li> </ul> 
<p><b>Preventing unauthorized removal/demolition of safe guarding devices</b> (Article 93)</p>	<ul style="list-style-type: none"> <li>Prohibit and prevent the un-installation, unauthorized disassembly or suspension of safety devices for machinery and equipment.</li> </ul>  <p>E.g.) Un-installation of coverings from conveyor drums and chain power transmissions</p> <p>E.g.) Un-installation of coverings from the top of grinder rolls</p> <p>E.g.) Un-installation of opto-electric type safe guarding devices for press machines.</p>

### Installation of power cutoff and emergency stop devices

Legal requirements (Local Rule on the Occupational Safety and Health Standard)	Actions required
<p><b>Power cutoff devices</b> (Article 88)</p>	<ul style="list-style-type: none"> <li>Power cutoff devices, such as switches, clutches, and belt shifts, for power-run machinery must be installed in locations that allow workers to operate them from workers' own locations.</li> <li>E.g.) A key-type power switch that cuts off power to machinery</li> </ul> 
<p><b>Emergency stop devices</b> (Article 192)</p>	<ul style="list-style-type: none"> <li>Emergency stop devices must be installed on machinery or equipment (e.g., conveyors) that present risks for caught-in/between injuries.</li> <li>E.g.) A push-type emergency stop switch</li> </ul> 



## Safety measures for atypical work on machinery and equipment (maintenance, cleaning, repair, etc.)

### ① Cut off power, ② Lock Out/Tag Out (LOTO), ③ Assign line managers.

Legal requirements (Local Rule on the Occupational Safety and Health Standard)	Actions required
<p><b>Suspension of operation for maintenance, etc.</b> (Article 92)</p>	<ol style="list-style-type: none"> <li>Stop the operation of the machinery for maintenance, cleaning, repair, etc.</li> <li>Lock out (LO) the engine. Keep the key to the machine at a separate location or on the tag-out (TO) board.</li> <li>Assign a machine operator to stop the machinery in case the machine suddenly starts again while the work is underway.</li> </ol> 

※ 13 hazardous/risky machines/pieces of equipment subjected to mandatory safety checks (Article 93, Occupational Safety and Health Act): Press, conveyors, cranes, roller machines, injection molding machines, and industrial robots, among others. (Failure to check these parts regularly may result in a monetary fine of up to KRW 10 million.)