Recommended Safety Signs for Die Cast Machines and Related Equipment
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NADCA and the Safety Committee would like to thank NUTRON NAMEPLATE, INC. for providing their technical assistance with this document. Parties interested in these signs may contact NUTRON NAMEPLATE, INC. to inquire about availability and pricing.

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This technical report is intended to define, clarify, and standardize safety signs for common hazards that exist in die casting machinery and related equipment. The design of such machinery and related equipment may vary considerably from one manufacturer to another. Therefore, additional safety signs may be required due to the unique design of each machine. In such cases, this report may be used as a guide, but all safety signs in their entirety (pictorial panel, signal word panel, and message panel) must be created in accordance with ANSI Z535, taking all other applicable regulation into account.”
**DANGER**

High voltage.
Before servicing turn off, lock out/tag out main power disconnect.
Do not modify electric or hydraulic circuits unless authorized by manufacturer.
Earth ground machine and electrical cabinet before turning on power. Failure to comply can cause shock, burns or death.

**ELECTRICAL CABINET AND/OR ELECTRICAL CABINET DOOR DC001**

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**DANGER**

High speed moving parts.
Do not operate with gate / guards removed or open.
DO NOT REACH AROUND, UNDER, OVER OR THROUGH GATE/GUARDS while machine is operating.
Can cause crushing injury or death.

**GATE AND GUARD OR MACHINE FRAME DC002**

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**DANGER**

High voltage.
Hot surface.
Turn off and lock out main power disconnect, allow to cool before servicing.
Can cause shock, severe burns or death.

**HOT SURFACE WITH ELECTRICAL POWER DC003**
**HOT SURFACE**

**WARNING**
High temperature.
Surface may be hot, do not touch. Protective gear must be worn when working near this area.
Can cause serious injury.

**DC004**

**SAFETY MESSAGE**
**MACHINE FRAME**

**CAUTION**
High speed moving parts.
Do not operate machine unless you are trained, read and understand the Maintenance/Operator manual(s).
At start of each shift and after each mold change, check the operation of:
1) Operator gate limit switch(es).
2) Operator gate hydraulic valve.
3) Mechanical platen stop mechanism.
4) Power gate leading edge switch(es) if equipped.
Do not operate machine unless interlocks/safety devices are in place and function properly.
Failure to follow instructions could result in injury.

**DC005**

**ALTERNATE SAFETY MESSAGE, MACHINE FRAME**

**CAUTION**
Complex machine with hazards.
Do not operate machine unless trained, read and understand the Maintenance/Operator manual(s). Prior to start-up, test safety devices per instruction manual. Do not operate machine unless interlocks/safety devices are in place and function properly. Do not modify machine unless authorized by manufacturer.
Failure to follow instructions could result in injury.

**DC006**
WARNING
Crushing injury.
High speed moving parts.
Keep head and hands out of press while motor is running.
Use special tongs and/or hooks for feeding and removing parts.
Install safety blocks before putting hands into die.
Failure to follow safety procedures can cause injury.

FRAME OR MACHINE
DC007

WARNING
Crushing injury.
High speed moving parts.
Keep hands and fingers out of pour hole.
Do not place objects on bottom "C" frame shelf. See operators manual for proper procedures on freeing stuck plungers.
Failure to follow safety procedures can cause injury.

COLD CHAMBER
DC008

WARNING
High speed moving parts.
Gate must be open and all safety devices in place and functioning properly if entering die area to retrieve parts.
Can cause crushing injury or death.

INSIDE LARGE MACHINE DIE AREA
DC009
HIGH PRESSURE

DC010

GUARD OR ROBOT PERIMETER

DC011

SHOT END HOT MATERIAL

DC012
ROBOT MOUNTED

DC013

WARNING
High speed moving robot. Interlocked perimeter guarding must be in place and functioning before operating robot. Can cause serious injury.

OVERHEAD EXTRACTOR ROBOT

DC014

WARNING
Robot may drop load. Do not walk under robot/load. Can cause serious injury.

PERIMETER GUARD AREA

DC015

WARNING
High speed moving Robot(s). When interlocked perimeter gate is open all safety devices must be in place and functioning before authorized personnel enter or reach into guarded area. Can cause serious injury.
VAPORS AND FUMES

Vapors and fumes. Consult Material Safety Data Sheets (MSDS) for handling information. Adhere to safety requirements. Protective gear may be required for some materials. Exposure to certain raw materials may cause injury.

DC016
Signal words call attention to the safety sign and designate a degree or level of hazard severity. The signal words for product safety signs are DANGER, WARNING and Caution.

When no federal, state, or local government code, regulation, standard, or guidelines specifies a particular signal word, selection of the signal word should be made in accordance with the definitions provided below.

**DANGER** - indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING** - indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION** - indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

**CAUTION** - used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Reference: ANSI Z535 - 1995