



NORTH CAROLINA DEPARTMENT OF LABOR

No. 35-1

OSH DIVISION

Date: 10/2009

OSHNC INDUSTRIAL DATA REPORT

Pages: 3

Industry: Machinery, except Electrical

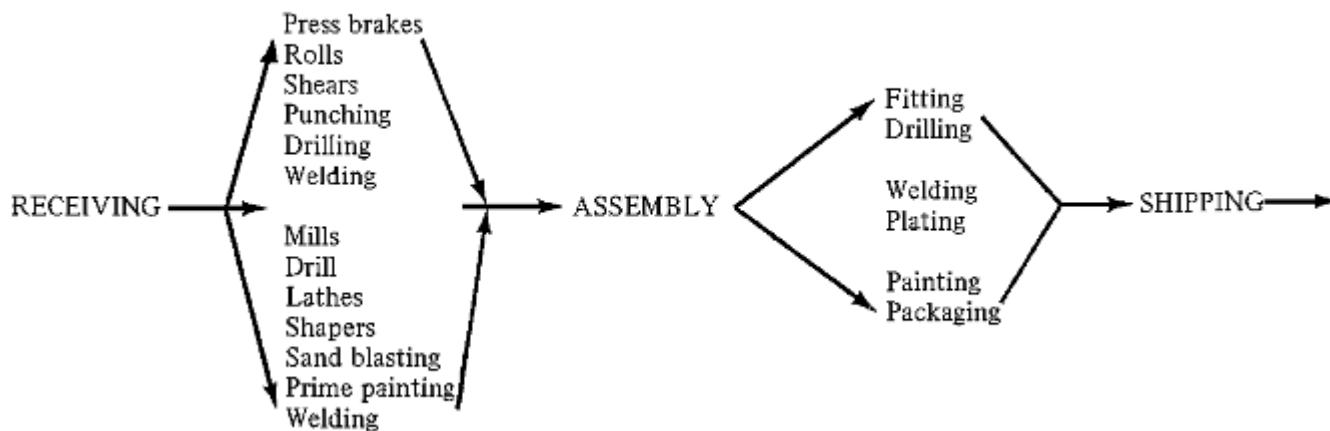
Sub-Group: Farm Machinery and Equipment

SIC: 3523

NAICS: 333111, 332212, 332323 and 333922

**PROCESS DESCRIPTION:** Receives castings, steel (sheet and shapes), pipe, stampings, bolts, nuts, rivets, bearings, wheels, tires, plating and painting supplies, assemblies and sub assemblies. Sheet metal is formed by press brakes, shearing, rolling and punching to desired configurations. Castings are sand blasted, snagged, sawed, milled, turned, drilled, ground, shaped and fitted for final assembly. Welding (gas, spot and electric arc) is used in fabrication of covers and guards. Assemblies are then primed, painted and packaged either disassembled or completely assembled for shipping. There may be additional assembly of other equipment such as electrical or chemical components.

**PROCESS FLOW:**



**Hazards Analysis**

Major Hazards			Other Hazards		
Location	Item	Hazard	Location	Item	Hazard
Receiving	Casting, sheet metal, steel shapes, paints, lumber	Lacerations, crushed limbs, back injuries and hernia	Drilling, cutting, punching, finishing, assembly	Metal chips and welding slag	Eye injuries

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Manufacturing, throughout	Points of Mechanical power transmission apparatus  Noise  Welding  Spray painting	Amputation and lacerations	Shipping and Receiving	Powered Industrial Trucks	Accidents, carbon monoxide
		Hearing loss			
		Burns, inhalation of fumes			
		Explosion, fire, inhalation			
<b>Key OSHNC Standards</b>					
<b>Reference</b>		<b>29 CFR 1910 — General Industry Standards</b>			
Subpart D		Walking and working surfaces			
Subpart I		Personal protective equipment			
Subpart O		Machinery and machine guarding			
Subpart Q		Welding, cutting and brazing			
Subpart S		Electrical			
1910.94		Ventilation			
1910.95		Occupational noise exposure			
1910.106		Flammable and combustible liquids handling and storage			
1910.107		Spray finishing with flammable and combustible liquids			
1910.122 - .126		Dipping and coating operations			
1910.147		Control of hazardous energy – (lock-out/tag-out)			
1910.151		Eyewash and emergency showers			
1910.176		Handling materials			
1910.178		Powered industrial trucks			
1910.1000		Air contaminants			
1910.1200		Hazard Communication			

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**Inspection Analysis**

Inspection should begin in the receiving and material storage area by checking industrial trucks, dock boards, cranes, walking-working surfaces and stacking of material. The sheet metal section must be checked for point of operation guarding and personal protective equipment (gloves). The machine area must also be checked for point of operation guarding and personal protective equipment (face protection, glasses, goggles and shields). The welding area must be inspected for shielding screens, face and eye protection, wrenches on acetylene cylinders, conditions of welding cables and connections and ventilation. The point spray booths or rooms must be checked for electrical hazards, ventilation, construction, respirators, bonding and grounding, accumulation of residues, storage of flammables and fire protection. Compressed air is sometimes used in the assembly of departments for cleaning purposes. Housekeeping and open aisles must be observed throughout the entire plant.

**Other Pertinent Comments:**