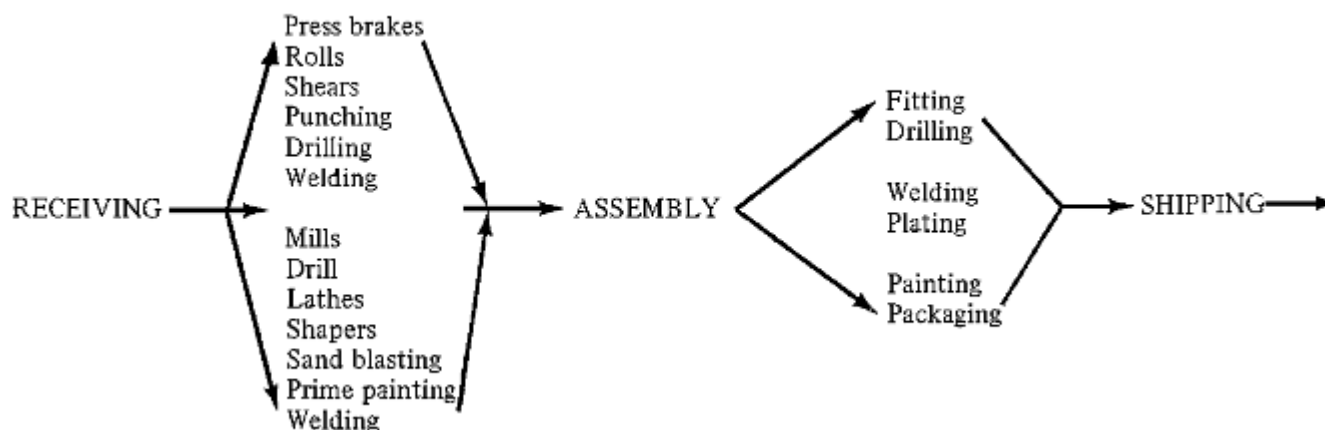
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<u>Industry:</u> Machinery, except Electrical	<u>Sub-Group:</u> Farm Machinery and Equipment
<u>SIC:</u> 3523	<u>NAICS:</u> 333111, 332212, 332323 and 333922


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	Amputation and lacerations	Shipping and Receiving	Powered Industrial Trucks	Accidents, carbon monoxide
	Noise	Hearing loss			
	Welding	Burns, inhalation of fumes			
	Spray painting	Explosion, fire, inhalation			
Key OSHNC Standards					
Reference	29 CFR 1910 — General Industry Standards				
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		
<p>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.</p>		
Other Pertinent Comments:		