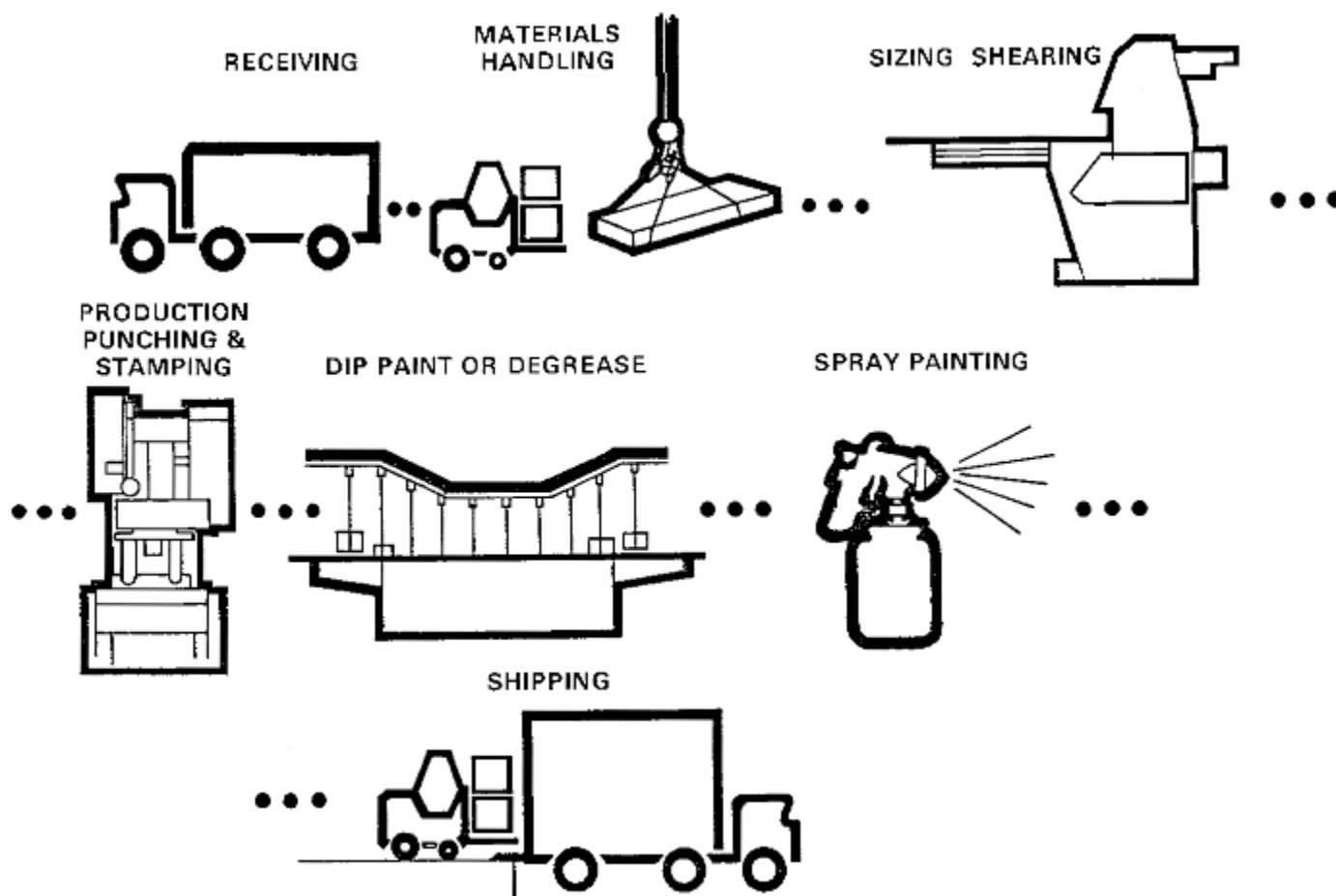



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Industry: Fabricated Metal Products	Sub-Group: Metal Stamping
SIC: 3461	NAICS: 332116

PROCESS DESCRIPTION: Ferrous and nonferrous metals are used in a variety of shapes and sections, such as coils, sheets and strips. Other materials utilized in production are die lubes, degreasing compounds and paint. Sections are cut to size by shears. Coil and sheet stock is hand or automatically fed into power presses and press brakes where it is blanked to size, punched, formed, drawn and trimmed. Additional operations may be performed after stampings, such as degreasing and dip or spray painting. Products are placed in containers and shipped to customer. Raw materials, containerized products and dies may be moved or handled by crane or forklift. Complete tool and die and heat treating facilities may be in operation if the firm constructs its own dies.

PROCESS FLOW:




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Hazards Analysis

Major Hazards			Other Hazards		
Location	Item	Hazard	Location	Item	Hazard
Sizing production	Shears, punch press	Amputation and crushed limbs	Throughout	Housekeeping	Slips, trips and falls
Production	Noise	Hearing loss	Production	Die handling	Strains and sprains, lacerations and crushed limbs
	Mechanical power transmission apparatus	Amputations and crushed limbs		Die lubes, degreasing compounds, spray painting and dip tanks	Allergies to subject compounds (dermatitis), toxic vapors, fires, explosions
	Flying metal particles	Lacerations to face and eyes			

Key OSHNC Standards

Reference	29 CFR 1910 — General Industry Standards
ANSI B30.6	Overhead underhung hoists
Subpart D	Walking and working surfaces
Subpart E	Means of egress
Subpart I	Personal protective equipment
Subpart O	Machinery and machine guarding
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
1910.179	Overhead and gantry cranes
1910.1000	Air contaminants
1910.1200	Hazard Communication

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Inspection Analysis		
<p>The inspection should begin in the receiving area. Check cranes, powered industrial trucks, walking-working surfaces and stacking of sheet and coiled material. Check metal shears for blade and hold down guards; check footwear and hand protection in both receiving and sizing areas. The production area will contain power presses, press brakes and squaring shears. Check mechanical power presses for barrier guard or properly placed and protected two hand controls. Interview a die setter for confirmation of die marking and die setting procedures and confirm weekly inspection of clutch/brake mechanism anti-repeat and single stroke mechanism. Parts may be degreased and/or painted after stamping. Check paint dip/spray areas for approved electrical equipment. Packing and shipping must be checked for those items included in the receiving area.</p>		
Other Pertinent Comments:		