



# METAL FABRICATION

Building equipment or component parts by cutting, shaping, welding and assembly of various materials.

## MATERIALS:

Sheet, bar and tube stock of various grades and thicknesses of aluminum, stainless and galvanized coated materials

## EQUIPMENT DESCRIPTION

## MANUFACTURERS

### METAL BENDING / STAMPING & FORMING

1- CNC Tube Benders	Keins
12-Ton Gap Frame Hydraulic Press	
2 - 15 Ton Gap Frame Hydraulic Press	Greenerd Model HPB-15
100 Ton Gap Frame Single Crank Mechanical Press	SPC Sutherland Model CBS-110
50 Ton Gap Frame Single Crank Mechanical Press	SPC Sutherland Model CPS-50
200 Ton Hydraulic Straight Side Double Crank Press	SPC Sutherland Model HD-200S
110 Ton Gap Frame Single Crank Mechanical Press	Sutherland Mark-121
36 Ton Mechanical Press Brake	Niagra Model 1B36-5-6
80 Ton - CNC Hydraulic 6-Axis Press Brake	Amada Astro-100 RabIII 8025
100 Ton x 10'L CNC Hydraulic Press Brake	Amada Model 1030LD
4 - 35 Ton CNC Hydraulic Press Brake	Amada Model FBD-3512
3 - 50 Ton CNC Hydraulic Press Brake	Amada Model RG-5020
60 Ton CNC Hydraulic Press Brake	Cincinnati Model 60BCIIX4
90 Ton CNC Hydraulic Press Brake	Cincinnati Model 90CBIIX6
150 Ton CNC Hydraulic Press Brake	LVD Type 150

### PUNCHING

15 Ton Single End Hydraulic Punch	Amada Model SP-15
58 Station CNC Turret Punch	Amada Model EM2510 NT
45 Station CNC Turret Punch	Amada Model EMK 3610 NT
Initial Pinch Plat Bending Roll	Wysong Model B-72

### WELDING

257 KVA Spot Welder	Amada Model ID-40-ST
10 - MIG Welding Cells	Lincoln Wire-Matic
16 - TIG Welding Cells	Miller Syncrowave 250
8 - MIG Welders	Panasonic Model Pana-Robo
1 - TIG Welding Robot	Panasonic Model Pana-Robo
1 - Six Axis Welding Manipulator Robot	Panasonic Model Pana-Robo

### CUTTING

Laser cutters can cleanly and accurately cut steel stock up to 3/4" thick. NSA's rare Tube Laser significantly improves quality, saves time and reduces waste by accurately cutting holes in tube stock up to 6" in diameter according to a CNC programmed Trumpf.

3 - CNC Laser Cutting Machines	4,000W Amada, 1500W Cincinnati, 3500W Mitsubishi
Tube Laser - CNC	Trumpf Tubematic
Squaring Shear	Amada Model 3060
7 - Band Saws	Amada, FMB, Hyd-Mech

### POWDER COATING

350' Foot Long Overhead Hanger Conveyor, Calhoun and Poxon 3 stage washing system, Deimco Paint Booth, Jebco Fab Gas Fired Double Conv Oven, Pr Dry Preheat Gas- Fired Oven, Wagner Powder Coat Booth. Automated Powder Coating Line can handle pieces up to 88" x 42"x 66" and 400 pounds.



## NSA DELIVERS SOLUTIONS:

NSA's Innovations Group reviewed the design for an engine cover, and determined that a modified design using two pieces of sheet metal instead of one would simplify the process, speed up the production and improve the quality of the finished part. The customer approved the changes, resulting in a better product and a cost reduction of 13%.

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