

## FACILITIES - MACHINERY AND EQUIPMENT INVENTORY

### FACILITIES

#### Colorado Springs Main Facility

10.5 acre paved site (fenced yard)

100,000 sqft Fabrication shop + 10,000 sqft office

50,000 sqft with ~ 22ft to crane hook

50,000 sqft large fab bay with 100ft x 450 ft clean span ~ 30 ft crane hook

50ft x 100 ft assembly bay at one end with 55ft to crane hook

Machine Shop / Fab – located adjacent to Colorado Springs shop 50,000 sqft

#### Westminister Facility

82,000 sqft high bay shop / office

Large drive through door / multiple dock doors

### CRANES (main facility)

(2) 40 ton x 100ft span double trolley bridge crane 30ft. under hook height

Twin 15 ton bridge cranes 55 ft. under hook height – assembly bay

15 ton side gantry crane – fit up in large bay

5 ton side gantry crane – fit up in large bay (4)

22' ~ Hook 10 ton Bridge Cranes (3)

22' ~ Hook 5 ton Bridge Cranes (4)

1 ton ~ 7.5 ton Jib Cranes (30+)

20 ton telescopic hydraulic mobile yard crane

### SHOP SUPPORT

Several precision floor imbeds in large fab bay, configurable up to 90 ft long.

Numerous welding positioners – to 40,000 lb capacity

Turning rolls to 40 ton capacity

Large number of hand tools, tooling, benders, material handling, etc.

### PRESS BRAKES

Cincinnati Hydraulic

20' x 750 ton

Accura Press CNC

3 Axis 320 ton x 14'

Cincinnati Hydraulic

10' x 175 ton

### ROLLS

Roundo 12' x 1-5/8"

4 roll double I.P CNC

Roundo 10' x 5/8"

4 roll double I.P CNC

Roundo 10' x 5/8"

3 roll double I.P.

Montgomery 6' x 1/4"

4 roll double I.P.

Roundo Angle Roll R5

L5x5x3/8" Capacity

DiAcro 16" x 3/16"

2 roll urethane pinch

### PLATE BURNING / PLASMA

Kinetic 4000 cutting system

8' x 20' table

260 amp high definition plasma

With plasma bevel head

Oxy fuel head

24 station machining head

Drilling, tapping, chamfering

Kinetic 2500 cutting system

10' x 24' table 260 amp high definition

Double head high precision

**FLAT LASER**

Mazak Nexus 2 - 4kw	78"x157" travels, shuttle table (new Oct 2014)
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**TUBE LASER**

Mazak Fabrigear 4,000 watt 6-axis w/ Tapping Head	8-5/8" OD x 24 ft (new 2011)
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**SAWS**

HE&M Automatic / feed	24" x 24" capacity programmable
HYD-MECH vertical	18" x 20" capacity
HYD-MECH horizontal Automatic Feed	18" x 18" capacity
Powermatic vertical	19" throat
Soco Cold Saw	14" blade

**SHEARS**

Cincinnati Mechanical	3/16" x 96"
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**IRONWORKERS**

HMI	70 ton hydraulic
Pirahna P3	50 ton hydraulic

**DRILLS**

Ocean Avenger	60ft travel beam drill (new 2015)
Cincinnati Bickford Radial	6' x 17" #6mt
Morris Radial Drill	5' x 11" #4mt
Milwaukee Mag Drill (4)	
Various other drills	

**WELDERS**

Romar Odgen	18'x18' track manipulator (sub-arc)
Teledyne Readco	12' x 12' track manipulator (sub-arc)
Ransome	10'x10' track manipulator (sub-arc)
Pandjiris	12'x12' stationary seam welder (sub-arc)
Pandjiris Double 8	8' x 8' x 30' track manipulator (sub-arc)
Flat Seam Welder	12' long x 1" thick (sub-arc)
Jet Line Seamer	(round) 10 ft long 1,000 amp (sub arc)
TIG (20+)	various models
MIG (50+)	various models
Panasonic Robot	400 amp 8 axis, 5ft sq envelop
ABB Robotic Welding System	450 amp MIG 6'x6'x50' work envelope with an integrated rotary axis, through the arc tracking and touch sensing and 8 functional axis of movement
BUG-O magnetic tractor welder	
BUG-O dual head tractor T welder	

**LATHES**

Samsung CNC with live tool & steady rest – 30" x 130"
Alpha CNC engine lathe 14x40
Haas SL30 slant bed lathe 17 x 34 w/ Servo 800 bar feeder
Mazak Integrex 200s
Mori Seiki (small capacity)

**LATHES (vertical boring mill)**

HNK CNC Vertical Boring Mill with Live Spindle
78" table x 98" max swing
70" under rail
20 hp live spindle with tool changer
Right angle head attachment for side work
Bullard Vertical Turret - 46" chuck x 58" swing x 38" under head

<b>MILLS (vertical &amp; horizontal)</b>	(inches)
G&L CNC Horizontal floor type - 10ft square rotary infeed table	360x96x48
Feeler CNC Bridge Mill (Includes right angle head, indexable)	205 x 94 x 47
Chevalier CNC Bridge Mill	162x101x39
Femco HBM 4.33" bar (full 4 <sup>th</sup> axis)	78 x 70 x 66
Mazak CNC Horizontal Machine Center Dual pallet 4 axis	52x48x48 (new Nov 2014)
Toshiba CNC Horizontal	118x80x40 (Westminster)
Tigercut CNC Horizontal	86x64x36 (Westminster)
Vanguard CNC Bridge Mill	98 x 49 x 29
(3) Femco CNC Machine Center	58 x 28 x 28
HAAS VF6	62 x 28 x 24 (Westminster)
Mori Seiki	24 x 48 x 20 (Westminster)
Several small manual mills	

#### **PLATE BEVELERS**

Steelmax DBM 50	2" capacity
Heck 8000 bevel cutter	1/2" plate capacity
Gulco Bevel Mill (2)	1" plate capacity

#### **PIPE THREADER**

Rigid 1224	4" pipe capacity
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#### **T-DRILL**

T-150 collaring machine

#### **FORKLIFTS**

Yale 32,000#  
 Combilift 17,000# crab lift  
 CAT 15,500#  
 Yale 9,000#  
 Yale 5,000#

#### **BLAST & PAINTING**

2 cabinet blasters  
 Blast building 24ft x 20ft x 60ft with recovery floor  
 Viking 18'high x 20'wide x 75'long enclosed spray booth  
 Graco X45 airless sprayer  
 Graco "President" 30:1 ratio airless sprayer  
 Electrostatic sprayer  
 Several Binks spray guns

#### **INSPECTION EQUIP (partial)**

FARO 3D Laser Tracker 250 ft cube  
 (2) Faro Arm Platinum 6' cube coordinate measuring instrument  
 Surface Plate – Trimos Various Gages & Measuring Instruments  
 Vessel Hydro Test Equipment  
 Hamar 3 axis precision geometry alignment laser  
 PMI Tester (positive material identification) handheld  
 Digital Psychrometer (humidity tester)  
 Paint inspection, adhesion, holiday, thickness  
 Mag Particle  
 Olympus Ultrasonic Weld Examination