

BRADKEN

MANUFACTURING FACILITIES



Mechanical assembly and testing



Efficient, highest quality robotic production welding



Large fabricated skid

Bradken - Atlas (Machining and Fabrication)

Safety, Quality, Integrity and Experience

Operating for over 80 years, the Bradken – Atlas manufacturing facility has the unique combination of fabrication and machining capabilities to provide customers with large complex finished components and assemblies.

We safely do what we say, when we say. Our reputation in the industry is based on honesty and integrity. Our customers know they will receive high quality components delivered on-time.

Our capabilities include heavy fabrication, NDE, stress relieving, large conventional and CNC machining, dimensional inspection, mechanical assembly, coatings and functional testing. Semi-production and production manufacturing is accomplished using state-of-the-art robotic welding, repetitive tooling, and efficient handling procedures.

Our rare capabilities have enabled Bradken to undertake business in a wide variety of industries including energy generation, underground and above ground mining, aerospace tooling and ground support, nuclear transportation and handling, satellite handling, oil drilling, aggregate support, hydro turbine, dredging, hydraulic crane, and many more.

Manufacturing Capabilities (Overview)

- Heavy fabricated weldments from 50 lbs to over 80,000 lbs (36,000kg)
- 24 ft under-hook height
- Qualified weld procedures in accordance with AWS or ASME to meet customer specific needs
- FCAW, GMAW, SAW, GTAW, SMAW capabilities
- Full time on-site AWS CWI (certified welding inspector)
- Six axis robotic welding
- Large horizontal milling up to 240" (horizontal travel)
- Large vertical turning up to 254" diameter
- CNC machining
- FARO Arm inspection equipment and laser tracking ability
- Complete mechanical assembly and functional testing

Key Differentiators: Turn-key Production

- Our unique combination of heavy fabrication, machining, assembly and testing at the same facility eliminates costly transportation and handling operations. Couple this with our state-of-the-art Bradken - Atlas foundry and heat treat facility right down the street and you have a "One Stop Shop" for your specialty products.
- We specialize in large prototype (jobbing) projects as well as semi-production and production quantities requiring dedicated tooling and manpower.
- Our ability to work with our customers and provide valuable feedback regarding the manufacturability of new products is yet another value-added component to our client-supplier relationship.

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Heavy fabrication from 50 to 80,000+ lbs.



Large conventional and CNC machining



FARO Arm inspection equipment

Facility Information

Lifting Capability over 40 tons (over 36,000 kg) 42,000 square feet

- 3 X 20Ton Capacity Demag Overhead Cranes
- Variety of smaller overhead, gantry, and jib cranes

Horizontal Boring Mills – Maximum travel 240" (6 meters)

- Sinada 5" Floor Model HBM, 80" X 80" Infeed Rotary Table 197"H.T. X 72"V.T.
- Sigma HP100 4" Floor Model HBM, 86" X 86" Infeed Rotary Table (X)240"H.T. X (Y)80"V.T.
- Sigma W100 4" Table Type HBM (multiple machine centers) 64"H.T. X 49"V.T.

Horizontal CNC Milling Centers - Maximum travel 120" (3 meters)

- Cincinnati Milacron 10HC-2500, 31" X 104" Table with 30" Rotary Table 100" X 60" X 30"
- Wakayama 5" Table Type with 96" X 96" Rotary Table 120" X 72" X 48"

Vertical Boring Mills – Maximum diameter 254" (over 6 meters)

- Toshiba-Shibaura 30/55 254" X 118" X 102"
- Toshiba-Shibaura 20/40 (multiple machine centers) 157" X 79" X 87"
- Toshiba-Shibaura TX16 78" X 63" X 63"

Machining Equipment Lathes – Maximum swing 42", Maximum length 216"

- Summit 42" Swing X 216"
- Axelson 28" Swing X 86"
- Graziano, Sag 14 (multiple machine centers) 14" Swing X 48"
- MillTronics, ML1440 CNC 14" Swing X 48"

Drill Presses – Maximum reach 72"

- Nardini, Radial 6' Arm
- Bergonzi, Radial 3' Arm

Saws

- Marvel Ser 8 MKI, Vertical Band Saw 20"
- Powermatic, Vertical Band Saw 20"
- Horizontal, Automatic Bar Feed 10"

Welding Processes - FCAW, GMAW, SAW, GTAW, SMAW Equipment (multiples of most)

- ESAB LAD 1400 Amp Miller Inteliweld 650 Amp
- Linde V1400 MIG 400 Amp Miller Dimension 652 Amp
- Linde V160, 600 Amp Miller Dial Arc 250 Amp
- Linde V1800, 800 Amp Airco DCT 600 Amp
- Linde V1252, 205 Amp Airco Pulsed Arc 350 Amp
- Linde Heliarc UCC 305, 300 Amp Hobart MC 500 Amp
- Lincoln 3R3, 250 Amp Lincoln V350
- Miller Plasma Torch 3/8"

Robotic Welding Equipment

- Robotic Weld Cell FANUC, ARCMATE 100iB 6-Axis with 450 AMP Lincoln Power Supply

Material Handling – 120,000 lbs (54,000 kg)

- Ransom Weld Positioners from 16,000 lb up to 120,000 lbs capacity
- Aronson Turning Rolls up to 60,000 lbs capacity

Miscellaneous Manufacturing Equipment

- Ideal Vertical Press, 38" wide, 36" tall, 20" stroke 500 Ton
- HTC Hydraulic Shear 1/2" X 12'
- HTC Press Brake 400 Ton
- Cadillac Tracers 4", 6", and 10"
- Electro Arc 250 Metal Disintegrator 2-SA
- Scotchman, Hydraulic Ironworker
- Kokie IK-70 Circle Burner
- Heck Bevel Mill
- CMM FARO ARM Platinum 8' Arm, 7-Axis
- ISO 9001 registered

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