

ENGINEERING

Being able to take your ideas and transform them into a working product is an important part of our capabilities.

We can help to fine tune your designs for a stamped part to help reduce cost by eliminating excess materials or processes.

Benefit from over thirty-five years of experience in metal stamping and coining. We have developed many unique methods for stamping and coining over the years which have led to cost savings to our customers.

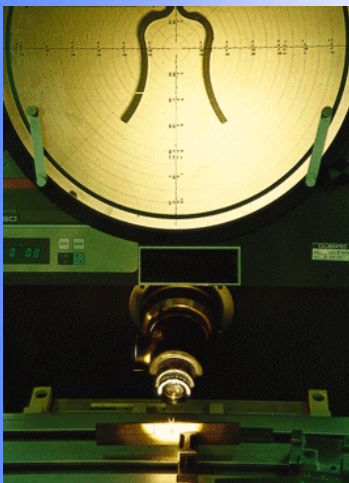
Through the use of the latest technology, we can develop prototypes of parts in a matter of days, helping you to make design decisions which could save you a lot of time and money before you commit to more expensive tooling and modifications.

Our engineering department uses the latest Computer Aided Design software from Cadkey[®], Pro-E[®], and Mastercam[®]. This software is used in the programming of our Wire EDM and Vertical Machining Center, thus further reducing costs.



Since quality is such an important part of your requirements, we have taken steps to insure that when the finished part reaches your door, it meets or exceeds the standards you have set in your contract to us.

Our Quality Control Department provides constant monitoring of all processes to insure that the standards set by the customer are maintained. All parts are subject to a complete first piece inspection upon being set up for a run, and during the course of the run all dimensions deemed critical by the customer are monitored very closely.



A complete history is maintained on every part. This allows trace ability from the purchase of raw material, the production process, final quality release, and shipment to the customer.

The quality program includes assurances that all inspection equipment used, as well as measuring equipment in the whole shop is maintained and calibrated on a scheduled basis.

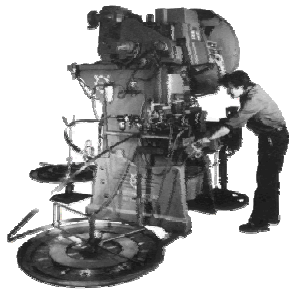
QUALITY CONTROL

MANUFACTURING

Our stamping department has over 40 presses from 10 to 800 tons to meet your needs. From the smallest terminal to large brackets, we have the straight side, OBI, and Knuckle presses to do the job.

We work with materials as thin as .004 to as thick as 1/4 inch and more. Aluminum, carbon steel, stainless steel, brass, copper, phosphor bronze, beryllium copper are stamped regularly.

To supplement our stamping we have the capabilities to do assembly and spot welding. In some cases, we have developed technology to do the assembly of multiple parts in a single stroke of the press, feeding materials co-axially into the die.



Our location is convenient to platers, electropolishers, heat treaters, and other services. This allows us to offer a finished part to you, saving you the cost of sending it out again for finishing.



Our experienced tool and die makers produce sophisticated single station and progressive dies to produce parts with very close tolerances. Working with detailed tool drawings from our engineering department, and using quality tool steels and die sets, all tools produced are 1st class and built to last.

All tools are customer owned, but maintained in top running order throughout the life of the tool by B.E.C., so you do not have to worry about getting charged for maintenance each time you place an order for production. Due to the increased use of computer design and machining technology, the maintaining of your tooling becomes simpler. Once a tool is built, all the programs and machining information is stored in our library for future reference. Spare parts can be quickly generated "overnight" by accessing this library and an exact duplicate die section can be fabricated.

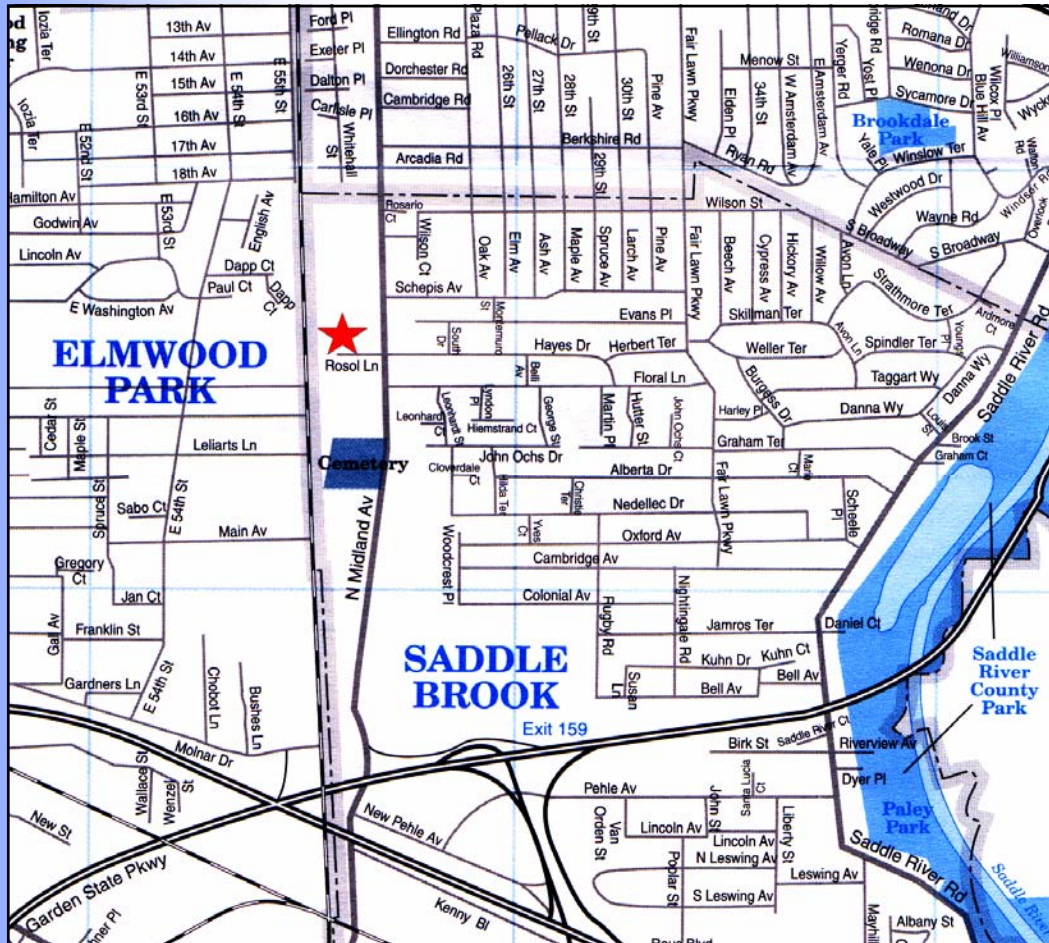


A complete history of maintenance is maintained for each tool providing critical information to pinpoint problem areas, needed design improvements, as well as forecasting routine tool maintenance.

TOOL ROOM



DIRECTIONS



Located near major highways

From George Washington Bridge - Follow signs for Interstate Route 80 West. Stay on Route 80 to Exit 62. (Garden State Parkway – Saddle Brook) Bear RIGHT off exit and then bear left. Follow signs for Garden State Parkway - Midland Ave. Turn RIGHT onto Midland Ave. Go about 8/10 of a mile. Watch for Citgo gas station on right and make next LEFT onto Rosol Lane. We are the last building on the right side.

From New Jersey Turnpike - Follow Turnpike to end (Exit 18) and get onto Route 80 West. Follow the directions above.

From Garden State Parkway - Take exit 159. Follow signs for Midland Ave, Saddle Brook. Make RIGHT onto Midland Ave. Watch for Citgo gas station on RIGHT side. The next LEFT is Rosol Lane.

BEC

Manufacturing Corporation

Facilities Listing

Stamping Department

- (1) 600-TON BLISS KNUCKLE
- (1) 250-TON BLISS KNUCKLE
- (1) 175-TON CLEARING
- (1) 150-TON NIAGARA O.B.I.
- (1) 150-TON TOLEDO KNUCKLE
- (1) 110-TON NIAGARA
- (1) 110-TON BLISS O.B.I.
- (1) 110-TON CLEVELAND
- (1) 105-TON NIAGARA
- (3) 100-TON TOLEDO KNUCKLE
- (1) 90-TON V & O O.B.I.
- (1) 88-TON MINSTER O.B.I.
- (1) 75-TON BLISS O.B.I.
- (1) 65-TON BLISS
- (1) 60-TON BRUDERER STR SIDE
- (3) 60-TON MINSTER O.B.I.
- (3) 60-TON BLISS O.B.I.
- (2) 60-TON L & J O.B.I.
- (1) 60-TON V & O O.B.I.
- (1) 50-TON MINSTER STR. SIDE
- (1) 45-TON NIAGARA O.B.I.
- (1) 45-TON TORC
- (1) 45-TON BLISS O.B.I.
- (3) 35-TON BLISS O.B.I.
- (1) 35-TON MINSTER O.B.I.
- (2) 35-TON V & O O.B.I.
- (2) 32-TON BLISS O.B.I.
- (2) 22-TON L & J O.B.I.
- (2) 22-TON NIAGARA
- (4) 22-TON BLISS O.B.I.
- (2) 22-TON MINSTER O.B.I.
- (5) 10-TON MISC
- (2) AUTOMATIC TAPPING MACHINES
- (2) VIBRATORY TUMBLERS
- (2) BARREL TUMBLERS
- (3) HEAVY DUTY FORK LIFTS
- (1) DIGITAL COUNTING SCALE
- (2) MULTI-SPINDLE TAPPING HEADS
- (1) FLOOR SCALE
- (1) PARTS WASHER
- (1) 4 FOOT SHEAR
- (1) TIMESAVER 648
- (1) 4 FOOT PRESS BREAK
- (5) SPOT WELDERS

Machining

- (1) 2AB WARNER & SWASEY AUTOMATIC LATHE
- (3) 1AB WARNER & SWASEY AUTOMATIC LATHE

Tool Room

- AGIE 200D WIRE EDM
- HAAS VF-2 VERTICAL MACHINING CENTER
- 2 BOYER SCHOLTZ SURFACE GRINDERS
- 4 BRIDGEPORT VERTICAL MILLERS
- 3 MITSUI SURFACE GRINDER
- BROWN & SHARPE SURFACE GRINDER
- MITUTOYO HARDNESS TESTER
- SOUTHBEND 54 INCH LATHE
- SOUTHBEND 17 INCH TURN-ADO LATHE
- DO-ALL BAND SAW
- DO-ALL CUT OFF SAW
- SOUTHBEND 42 INCH LATHE
- 2 CLAUSING VARIABLE SPEED DRILL PRESSES
- BROWN & SHARPE 1024 MICROMASTER WET GRINDER
- 2 TRINCO GLASS BEAD BLASTERS

Engineering

Cadkey

Pro Engineer

Mastercam

3 Rosol Lane Saddle Brook, NJ 07663

Tel: (201) 414-0000 Fax: (201) 414-0011

www.becmfg.com



Registration Certificate

*This document certifies that the administration systems of
BEC Manufacturing Corporation*

New Jersey, USA

*have been assessed and approved by QAS International
to the following management systems, standards and guidelines:*

ISO 9001:2008

The approved administration systems apply to the following:

*Provision of metal stamping services, tool and product design
services and supporting precision tool and die making services.*

Original Approval **9th December 2002**
Current Certificate **9th December 2009**
Certificate Expiry **9th December 2010**
Certificate Number **A1863US**

[Signature]
On behalf of QAS International

www.qas-international.com

*This certificate remains valid while the holder maintains their quality administration systems in accordance
with the standards and guidelines stated above, which will be audited annually by QAS International.*

The holder is entitled to display the above registration mark for the duration of this certificate.

This certificate must be returned to QAS International on reasonable request.

Issuing Office: **QAS Boston, 25 Burlington Mall Road, Suite 300, Burlington, MA 01803, USA**