



**DM&E CORPORATION
EQUIPMENT
AND
FACILITIES LISTING**

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Computer-Operated, Numerically-Controlled (CNC) Equipment

Cad /Cam

3-dimensional computer assisted design/machining software (CAD/CAM) is available for preparing CNC programs. The software converts the most complex drawing into a working path for the CNC machine tool. Complex 3-dimensional surfaces can be accurately translated into finished parts. The CAD/CAM system is linked to the CNC machine tools for program transfer.

Mori Seiki SL-6 Turning Center

This 50 horsepower, 12-tool, slant bed lathe machines large round parts. It is especially suitable for limited quantities of large complex parts.

Swing: 35"
Distance Between Centers: 40"
Maximum Workpiece Weight: 2500 lbs.

Okuma Captain L-470 L/M

Used for round parts up to 24.50" in diameter. Can be utilized for lower quantity complex parts as well as large quantities of components that require a machine of this capacity.

Swing: 24.50" diameter (18" long)
16.5" diameter (50" long)
Maximum Workpiece Weight: 1320 lbs.

Okuma LB15 CNC Turning Center

This high-speed lathe machines round parts up to 10" in diameter. A 300-part run is generally a required minimum.

Swing: 10" diameter
Length: 20"
Maximum Workpiece Weight: 500 lbs.

Okuma MC-4VA CNC Machining Center (3 each)

These vertical-milling machines, with automatic tool changers, and 4th axis capability machine flat surfaces and/or irregular shapes and perform complex drilling, tapping, and boring operations. A fourth rotary axis permits generation of special cams and spirals. Production runs in excess of 40 parts are generally required for these machines to be efficiently utilized.

Bed Length: 40"
Bed Width: 14"
Maximum Workpiece weight: 1500 lbs.

Computer-Operated, Numerically Controlled (CNC) Equipment (continued)

HAAS VF-2, CNC 3-Axis Vertical Machining Center

This three axis high performance machining center features a 10-horsepower high speed spindle motor, 20-pocket electronic tool changer and 160 ft. lbs. of cutting torque.

Machine travels of 30" in x-axis, 16" in y-axis and 20" in z-axis make this machine a versatile, yet a cost effective machining alternative. Machine table is 34" long and 14" wide.

HAAS VF-6, CNC 4-Axis Vertical Machining Center

This four axis high performance machining center features a 20-horsepower high speed spindle motor, 24-pocket electronic tool changer and 250 ft. lbs. of cutting torque.

Machine travels of 64" in x-axis, 32" in y-axis and 30" in z-axis make this machine capable of handling many larger milling operations. Table is 64" by 26" in size, and the 12" rotary fourth axis may be operated vertically or horizontally.

Manual Equipment

Lathes

Six manual lathes are available to produce limited quantities of round parts with capacities including 54" diameter (10" long), 33" diameter (80" long), and 12" diameter (120" long).

Mills

Nine vertical mills are used for milling, drilling, tapping and boring operations in quantities that do not justify use of CNC equipment. All mills have electronic position indicators to improve accuracy and speed.

A horizontal mill is used for sizing and shaping heavy parts.

Grinders

Cylindrical grinding provides external machining of round parts for precision control of tolerance and finish on outside and inside surfaces.

Outside diameter: 14" maximum
Length: 60"
Tolerances to 0.0002"

Surface grinding allows finishing of flat surfaces to control thickness and finish.

Table: 40" x 12" Tolerances to 0.0002"

Manual Equipment (continued)

One hone allows for close dimensional control of holes that have been machined on other equipment.

Sizes from .060" diameter to 3.000"
Depths to 8"
Tolerances to .0002"

Saws

DoAll automatic (10"), and additional manual horizontal and vertical saws are available.

Assembly

Cutting, bending, wiring and finishing are offered as part of a quality product. Assembly services include; building of prototypes, handling of the simplest fabrications, assembling and finishing complicated machinery from simple units to short production runs.

Support Equipment

Second operation and finishing equipment include drill presses, sand blasting, vibratory finisher, lapping, lifts, and assembly area.

Metal Fabrication

Metal shear to 10' long and 1/4" thick; metal bending 12' x 1/4" thick; CNC Laser, Plasma and Oxy-acetylene pattern cutting to 48" x 96" surface size. Heli-arc, wire and stick-electrode welding for steel, aluminum, and exotic metals. Metal parts fabrication up to 5000 lbs. and 30' long can be produced. We offer a quality source of superior aluminum and iron castings in a variety of alloys. Patterns may also be provided.

Auxiliary Services

Plating and Treating Operations

Excellent working relationships with quality suppliers make it possible to offer sophisticated heat-treating and surface treatment. Quality in house heat-treating is also available for smaller parts.

Aluminum parts may be protective anodized or hard anodized. Steel parts may be zinc, chrome, or electroless-nickel plated. Stainless steel may be electro-polished. Various additive surface treatments from aluminum oxide to Teflon are easily incorporated into finished parts.

Ceramic and rubber coating is available for rolls, shafts and other parts. Painting and high

quality powder coating is available.

Engineering

An engineering staff with proven facilities for prototype machine design capabilities. Particularly experienced in the manmade fibers industry, DM&E can provide design and drafting on the latest version of AutoCAD systems. Manual drafting, project management and design consultations are also available per customer requirements.

Quality Control

DM&E Corporation is committed to providing products and services to our customers that meet or exceed their requirements.

DM&E Corporation maintains appropriate inspection facilities including a 4' x 6' granite table and a Mitutoyo BH700 Coordinate Measuring Machine. The CMM provides high accuracy and consistency in dimensional measuring. This includes point coordinates, two or three dimensional measurements, and contours along with axial length measuring accuracy (at 20°C) is $4.4 + 4.5L/1000\mu\text{m}$. Additional quality assurance and specialized inspection are available through independent laboratories.

Employees

Most of our employees have been with DM&E Corporation for over 10 years. They take pleasure in producing superior parts for every customer. Many have had advanced training in their craft, and enjoy excellent working conditions.

Location

DM&E Corporation is located in western North Carolina approximately 45 minutes southwest of Charlotte. Quick access to Charlotte International Airport, Interstate 85 and the ports of the Atlantic Coast, facilitate transportation of people and equipment to and from DM&E Corporation.

Orders

Most accounts are carried on a 30-day net payment basis. Correspondence with foreign banks through Letters of Credit and fiduciary notes are common banking practices for DM&E. We also accept American Express, Master Card and Visa. Orders are accepted via EDI with turn around invoicing.

Quotations are prepared daily. Quotes can be received through email and returned in the same manner. CAD drawings may also be sent by email attachments to our Website. Contact us at: sales@dmecutter.com.