



## **CAPABILITY STATEMENT**

Name: S&DC Corp  
DBA: MBK Machine  
13855 Deere Court  
Mead, CO 80504

DUNS #: 079307998  
CAGE CODE: 77G85  
NAICS: 332710  
EIN: 46-4487698  
Unique ID Number: **W7LMFLYT3U19**

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We provide high precision machined parts for prototype and production quantities. We have four degreed engineers on staff in addition to eight programmers/machinist and several operators with many years of experience. We operate three shifts, 7 days a week with inspection on all shifts. We also offer third party inspection services. We are certified to ISO9001:2015 and AS9100:2016 (Rev. D). We are also ITAR registered and NIST SP 800-171 compliant. The following is a list of equipment:

### **Milling:**

**5-axis DMG Mori DMF260-11 with Siemens 840D Controller and 18,000 RPM spindle** (Table size is 43" X 126" with 35.4" of vertical travel and built in turntable)  
**5-axis Grob 550** with Siemens Sinumerik 840D Controller and High Torque 16,000 RPM spindle (31.5" X, 40" Y, 38" Z)  
**5-axis +GF+ Mikron MILL P 500 U D** with Heidenhain TNC 640 Controller and 20,000 RPM (5 pallet carousel and 220 tool holder tower)  
**5- Axis Feeler U800** with Heidenhain TNC 640 Controller and High Torque 15,000 RPM spindle (32" X, 38" Y, 25" Z & able to do up to 35" round)  
**4-axis Okuma MB-5000H II** with OSP-P300A Controller and 15,000 RPM spindle (29.9" X, 29.9" Y, 31.9" Z) and **Fastems FPC-750 Advanced MMS** system with 12 pallets  
**4-axis Matsuura ES450IIH** (two units) with Fanuc Controllers and 15,000 RPM spindles and pallet changer  
**3-axis Doosan DMN 750 II** with Fanuc 0i-MF Plus iHMI Controller and 12,000 RPM spindle (64.2" X, 30" Y, 25.6" Z)  
**3- Axis Matsuura RA-IIIIF** Vertical Machining Center with pallet changer  
**3-axis Matsuura RA-1** Vertical Machining Centers with pallet changer  
**3-axis Fadal VMC 3016** Vertical Machining Center

### **Some key features:**

- Pallet changers on Mikron and on all Matsuura mills
- Up to 20,000 RPM Spindle speeds
- Probes on all pieces on equipment
- Standard maximum dimensions: 70" X-Axis, 38" Y-Axis, 30" Z-Axis
- Larger dimensions can be accommodated by special request

### **Lathes:**

**Cincinnati CFHD65240 with steady rest and tailstock** (Extremely large lathe able to turn up to 65" in diameter and 240" long with maximum part weight of 20,000 lbs.)  
**Okuma LB3000** (two units) with sub-spindle, Y axis, live tooling and bar-feeder able to feed up to 3.08" diameter material  
**Okuma LB12 Lathe**

### **Wire EDM:**

**Fanuc Alpha C600iB-12"**

### **Some key features:**

- 24" X, 16" Y, 12" Z plus rotary axis
- Second Micro Finish Power Supply for improved cuts and finishes especially on large steps in Titanium

1/21/2023



Additional support equipment includes; Lap Master 15, Sunnen Precision Honing Machine, Ultrasonic Parts Cleaner, Manual Lathes, Bridge Ports, Saws and more.

Founded in 1983 and new ownership in 2014, MBK is a precision machine shop working with all types of materials; aluminums, stainless steels, titanium, Invar, Inconel, Kovar, Tungsten, Peek, Acrylic, Teflon, Graphite, Ceramics to name a few. We work with tolerances of +/- 0.0001" (0.0025 mm) on a regular basis. We utilize ProShop for our ERP system.

Our temperature controlled Quality Assurance Lab includes a 2018 Mitutoyo Crysta-Apex S121210 (48"X,48"Y,40"Z) with Precision Air bearings and Glass Scales on all Axes with 0.1 micron resolution, Advanced Renishaw SP25 scanning probe, 9 station probe rack and is able to auto program from 3D models with GD&T included in Model. Additional equipment includes a Brown and Sharp CMM – Coordinate Measuring Machine; Brown and Sharp Micro Height Gage; FARO 4 foot measuring arm with Probe and Laser, Starrett Optical Comparator, and Multiple Surface Plates in addition to all of the regular inspection equipment needed to assure product conformity to specification. Our Quality Assurance Manager has over 20 years of inspection experience and is certified in GD&T and is supported by three other inspectors all well trained in GD&T. We provide reporting from our quality software High QA in AS9102 format or others as needed.

We currently serve several industries including aerospace, medical devices, and instrumentation manufacturing. References can be supplied upon request.