

**FACILITIES LIST**  
**GENERAL MACHINE WORKS COMPANY**  
**13 WEST FIRST STREET**  
**SPENCER, IA 51301**

OVER 50,000 SQUARE FEET AREA – OFFICE, MANUFACTURING, WAREHOUSE  
(CLIMATE CONTROLLED ENVIRONMENT)

**MACHINING CENTERS**

**2 - MAKINO A-55 HORIZONTAL**

30 HP  
14,000 RPM Spindle  
22.0" x 22.0" x 22.0" Work Area  
880 Pound Weight Capacity  
128 Tool Magazine  
Through Spindle Coolant  
Attached to 23 Station Robotic Pallet Changer

**2 – MAKINO A 55 HORIZONTAL**

30 HP  
12,000 RPM Spindle  
22.0" x 22.0" x 22.0" Work Area  
880 Pound Weight Capacity  
60 Tool Magazine  
Through Spindle Coolant  
Attached to 23 Station Robotic Pallet Changer

**1 – MAKINO A 55 HORIZONTAL**

30 HP  
12,000 RPM Spindle  
22.0" x 22.0" x 22.0" Work Area  
880 Pound Weight Capacity  
40 Tool Magazine  
Through Spindle Coolant

**2 – MAKINO A 51 HORIZONTAL**

30 HP  
14,000 RPM Spindle  
22.0" x 22.0" x 23.6" Work Area  
880 Pound Weight Capacity  
134 Tool Magazine  
Through Spindle Coolant

**1 – MAKINO A 51 NX HORIZONTAL**

30 HP  
14,000 RPM Spindle  
22.0" x 25.2" x 25.2" Work Area  
899 Pound Weight Capacity  
60 Tool Magazine  
Through Spindle Coolant

**1 – HARDINGE VMC 1500XP3HPD**

40.2 HP  
7,500 RPM Spindle  
59.6" x 26" x 24" Work Area  
3,300 Pound Weight Capacity  
30 Tool Magazine

**1 – HARDINGE XR 1000**

25 HP  
12,000 RPM Spindle  
40" x 24" x 24" Work Area  
2,000 Pound Weight Capacity  
30 Tool Magazine

**1 – HARDINGE XV 710**

20 HP  
8,000 RPM Spindle  
28" x 18" x 18" Work Area  
910 Pound Weight Capacity  
20 Tool Magazine

**1 – MATSUURA 800 VF VERTICAL**

20 HP  
5,000 RPM Spindle  
31.5" x 17.32" x 19.1" Work Area  
1,100 Pound Weight Capacity  
30 Tool Magazine

**1 – MATSUURA 760 VS VERTICAL**

20 HP  
5,000 RPM Spindle  
29.9" x 17.32" x 19.09" Work Area  
1,100 Pound Weight Capacity  
25 Tool Magazine

**1 – PRATT & WHITNEY TRIMAC V VERTICAL**

15 HP  
5,000 RPM Spindle  
29.5" x 15.7" x 17.7" Work Area  
1,100 Pound Weight Capacity  
24 Tool Magazine

**1 – PRATT & WHITNEY TAPEMATE D VERTICAL**

15 HP  
5,000 RPM Spindle  
20.0" x 15.0" x 15.7" Work Area  
600 Pound Weight Capacity  
10 Tool Magazine

**1 – PRATT & WHITNEY TAPEMATE F VERTICAL**

10 HP  
3,000 RPM Spindle  
20.0" x 15.0" x 7.7" Work Area  
600 Pound Weight Capacity  
7 Tool Magazine

**TURNING CENTERS**

**1 – NAKAMURA TOME TW-30 TWIN SPINDLE**

30 HP Both Spindles  
3,500 RPM Spindles  
2 Twelve Station Turrets  
13.9" Maximum Swing  
11.81" Turning Length

**1 – NAKAMURA TOME SC-450**

30 HP  
2,500 RPM Spindle  
12 Station Turret  
20.47" Maximum Swing  
18.31" Maximum Turn  
30.91" Turning Length

**1 – HAAS SL 20 – New 2004**

20 HP  
4,000 RPM Spindle  
10 Station Turret  
23" Maximum Swing  
10.3" Maximum Turn  
20" Turning Length

**1 – NAKAMURA TOME SC-300**

18 HP  
3,500 RPM Spindle  
12 Station Turret  
17.71" Maximum Swing  
13.78" Maximum Turn  
23.62" Turning Length

**1 – METHODS SLANT 50**

15 HP  
3,500 RPM Spindle  
10 Station Turret  
19.68" Maximum Swing  
11.2" Maximum Turn  
25.0" Turning Length

**2 – PRATT & WHITNEY STARTURN 815**

15 HP  
1,500 RPM Spindle  
8 Station Turret  
20.0" Maximum Swing  
12.75" Maximum Turn  
26.0" Turning Length

**COIL WINDING**

**1 – AUMANN WINDING MACHINE**

7.1" Diameter  
7.87" Length  
.002" - .197" Wire Diameter

**VACUUM POTTING CENTER**

**DUAL WIRE BONDING STATIONS**

**BALANCING**

**1 - BALMAC BALANCING MACHINE – SINGLE PLANE**

30 Pound Capacity  
30.0" Dia.

**ADDITIONAL MACHINES**

**WARNER & SWASEY #4 TURRET LATHE**

18.5" Swing  
2.0" Bar Capacity

**MILLRITE RAM & TURRET MILLING MACHINE**

**ASEA IRBL6/2 FIVE AXIS ROBOT**

14 Pounds Capacity

**BEHRINGER 303A AUTOMATIC BANDSAW**

12.0" Round or Square Capacity

**HEM 750A AUTOMATIC BANDSAW**

10.0" Round  
10.0" x 12.0" Flat Capacity

**WELLSAW MANUAL BANDSAW**

9.0" Round  
9.0" x 16.0" Flat Capacity

**SUNDSTRAND DOUBLE END DRILLING MACHINE**

3.0" Diameter  
36.0" Length

**BROWN & SHARP SURFACE GRINDER**

6.0" x 14.0" Travel

**WILTON DRILLING & TAPPING MACHINE**

12.0" Throat  
16.0" x 20.0" Table

**20 TON PRESS**

18.0" x 20.0" x 30" Work Area

**DIMENSIONAL INSPECTION**

**1 – MITUTOYO SV622 SURFTEST**

Programmable, Skidless  
Three Dimensional, and Form Analysis Capable  
50 MM Stroke x 350 MM Vertical Travel  
Windows 98 PC Based Operating System

**1 – BROWN & SHARP EXCEL 7107 CNC CMM**

25.6" x 39.4" x 25.6" Capacity  
Renishaw Probe Changer

**1 – NUMEREX MANUAL CMM**

24.0" x 24.0" x 15.0" Capacity  
Renishaw Touch Probe

**1 – SCHERR- TUMICO 14.0" OPTICAL COMPARATOR**

**2 – DATAMYTE 953 SPC DATA COLLECTORS**

Turbo SPC Software

**1 – ROCKWELL HARDNESS TESTER**

**1 – BRINNEL HARDNESS TESTER**

**PART WASHING EQUIPMENT**

**PART WASHING DEPARTMENT IS EQUIPPED WITH SEVERAL PART WASHERS WITH THE FOLLOWING CAPABILITIES: HEATED HIGH PRESSURE FLUSH, CONTINOUS FILTERING OF SOLUTION, ULTRASONIC TANKS AND AGITATING MOTION.**

**DEBURRING**

**DEBURRING DEPARTMENT HOSTS VIBRATORY FINISHING EQUIPMENT WHICH IS USED TO DEBURR, DESCALE AND POLISH SURFACES.**

**G.M.W. OFFERS MANUAL AND AUTOMATED DEBURRING SERVICES.**

## **ADDITIONAL RESOURCES & LOCAL OUTSIDE SERVICES**

- **MULTI SPINDLE SCREW MACHINES UP TO 2.625" DIA.**
- **SINGLE SPINDLE SCREW MACHINES UP TO 1.375" DIA.**
- **GRINDING: CENTERLESS, EXTERNAL AND LAPPING.**
- **CARBURIZING, CARBONITRIDING, STRESS RELIEVING, QUENCH & TEMPERING**
- **LASER, FLAME CUTTING, PLASMA AND WATERJET CUTTING**
- **METAL COATINGS AND FINISHING**
- **METALLURGICAL TESTING**