

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 SURFTTEST

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**