



## International Tooling Solutions, LLC

731 Broadway N.W., Grand Rapids, MI 49504

Phone: 616/459-8285 Fax: 616/459-8292

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### EQUIPMENT LIST

#### CNC MILLS

##### 1 – G&L CNC Machining Center

- 6” Spindle,
- 144” X Axis
- 96” Y Axis,
- 48” Z Axis

##### 1 – G&L CNC Machining Center

- 5” Spindle,
- 144 X Axis,
- 96” Y Axis,
- 48” Z Axis

##### 1 – LeBlond Makino CNC Copy Mill

- 67” X Axis
- 32” Y Axis
- 28” Z Axis.

##### 1 – PARPAS – Moving Column Horizontal Spindle

- 236” Horizontal,
- 98” Vertical,
- 73” Cross Travel

##### 1 – FPT – Horizontal Spindle CNC Machining Center

- 98” Horizontal
- 60” Vertical
- 39” Cross Travel with CNC Controlled Rotary Table

##### 1 – TOS CNC Boring Mill

- 5 1/8” Spindle
- 138” X Axis
- 79” Y Axis
- 50” Z Axis with CNC Controlled Rotary Table

##### 1 – Mori-Seiki

- NV 5000 2003 VMC
- 20” x 31”;
- Hi Pressure Coolant

##### 1 – 1994 LeBLOND Makino MC 98 With A Fanuc

- 16MB Control, 1 200 Station Automatic Tool Changer, Coolant Through the spindle.
- (2) 25” x 25” pallets & It Is A Full 4<sup>th</sup> Axis
- Travels are 36” X, 32” Y & 29.5” Z
- 10-4,000 RPM’s
- #50 Taper

##### 1 – OKUMA

- 60.23” X Axis
- 25.98” Y Axis
- 24.01” Z Axis
- Table Size: 26” x 60”
- Spindle Speed 6.000

#### HANDLING EQUIPMENT

1 – 30/5 Ton Overhead Crane

1 – 25 Ton Overhead Crane

1 – 20 Ton Overhead Crane

2 – 15 Ton Whiting Crane

1 – 15 Ton Shaw Box Crane

1 – 10 Ton P & H Crane

4 – 2 Ton Overhead Cranes

1 – 13,000 Lb. Capacity Hi-Lo – Clark Overhead Crane

4 – 4,000 Lb Capacity Hi-Lo – Overhead Cranes

1 – 1 Ton Clark Hi-Lo – Overhead Crane

**\* All Press Equipment Listed on  
Separate Press Spec Sheets**

## **ENGINEERING CAPABILITIES**

Uni-Graphics (22 Seats)

SDRC (1 Seat)

Rhinoceros Software (1 Seat)

Work NC (5 Seats)

Lemoine (9 Seats)

VisView (Shop Floor Viewing Software) (9 Seats)

Pam Stamp Simulation Software (2 Seats)

Rapid Form Software (1 Seat)

1 – 5 Ton Kone Crane

1 – 5 Ton Robbin & Meyer Crane

## **INSPECTION**

### **1 - Brown & Sharpe Coordinate Measuring Machine**

with Brown & Sharpe Support Hardware

- 120” X Axis
- 78” Y Axis,
- 59” Z Axis

2 - Rockwell Hardness Tester

1 - Olsen Ductility Tester

1 – Ultrasonic Tester

1 – Datamte 3053 Collector With Turbo SPC

**1 – CogniTens Optigo White Light Scanner**

## **CAD/CAM FILE CONFIGURATION CAPABILITIES & REQUIREMENTS**

### **File Types We Read**

IGES

DXF

CATIA

SDRC

UNI-GRAPHICS

### **MEDIA REQUIRED:**

CD ROM

### **NETWORK:**

10 Meg Attachment E-Mail Files

F.T.P. SITE (its-mtc.com)



# ITS Manufacturing Solutions, LLC

2066 Bristol Avenue N.W., Grand Rapids, MI 49504

Phone: 616/284-2900 Fax: 616/284-2934

## EQUIPMENT LIST

### CNC MILLS

#### 1 – Pratt & Whitney CNC Vertical Machine

- CNC Control with Lemoine real time Digitizing unit
- Table Size 63" x 152"
- Sub Table Size 71.5" x 130"
- 120" X Axis
- 72" Y Axis,
- 30" Z Axis

#### 1 – Toshiba 5 Axis CNC Vertical Bridge Mill

- (2) Lemoine RTM Control Consoles
- 70" x 74" T-Slotted Power Feed Table
- 800 Inches per Minute Feed
- (3) Motorized Chip Conveyors
- Gusher Pump Coolant System
- Vacuum Pump and Splash Enclosure
- 10,000 RPM
- 5" Spindle,
- 88" X Axis,
- 55" Y Axis,
- 28" Z Axis

#### 1 – Nomura CNC Horizontal Boring Mill

- Fanuc Series O-M CNC Control
- 5.950 Spindle Bar
- Table Size 188" x 354"
- (2) 72" x 114" Angle Plates
- 354" X Axis
- 114" Y Axis
- 118" Z Axis.

#### 1 – LeBlond Makino CNC Vertical Mill

- Makino Accutrace 8 Tracer Head
- Fanuc 15M CNC Control
- 6000 RPM
- Chip Auger
- 32" x 8" T-Slotted Table
- 31" x 58" Auxillary Table
- 80" X, 39.5" Y & 27.5" Z

### 5 AXIS LASER

Prima Industries Bridge Style 360-Degree CNC Laser, 48" x 78" Tapped Table, Self Contained PRC Laser, Laser Interface, Joystick, Rapido P/C Based Control, Motors & Controls.

### WIRE EDM'S

#### 2 – Charmilles 5-Axis CNC Wire EDM's

- Model Robofil 290
- Travels: 15.7" X-Axis, 9.8" Y-Axis, 7.9" Z-Axis, 15.7" U-Axis, 9.8" V-Axis

### HANDLING EQUIPMENT

- 2 30/10 Ton Overhead Crane – 50' Span
- 1 25 Ton Overhead Crane – 50' Span
- 5 20 Ton Overhead Crane – 50' Span
- 1 20/5 Ton Overhead Crane – 50' Span
- 1 15 Ton Overhead Crane – 40' Span
- 4 10 Ton Overhead Crane – 30' Span

1 - AllisChalmers 10,000 LB. LP Gas Forklift -136" Lift

1 - Allis Chalmers 12,000 LB. LP Gas Forklift

1 - Baker 6,000 LB. LP Gas Forklift

1 - AllisChalmers 10,000 LB. LP Gas Forklift -136" Lift

1 – Automatic Transportation Company 20,000 LB.  
Electric Die Cart

### INSPECTION

1 - ITP Coordinate Measuring Machine with PCDMIS

- Renishaw PAC-10 Probe
- 192" Horizontal Travel
- 120" Vertical Travel
- 96" x 240" Table

**\* All Press Equipment Listed on  
Separate Press Spec Sheets**



## ITS South, LLC

111 Commerce Blvd., Frankfort, KY 40601

Phone: 616/284-2900 Fax: 616/284-2934

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### EQUIPMENT LIST

#### CNC MILLS

**1 - Fadal 4020** Vertical Machining Center

- 21 Position tool changer
- Fanuc 15MB CNC Control
- 40" X Axis
- 20" Y Axis
- 20" Z Axis

**1 - Bridgeport Series-I** vertical milling machine

- 2 HP
- 9" x 48" Table
- Rapid Reverse
- Newall C80 DRO
- Kurt Machine Vise

**1 - Republic-Lagun FTV-2S** vertical milling machine

- 2.2 HP
- 10" x 50" Table
- Rapid Reverse
- Newall C80 DRO

#### LATHES

**1 - Clausing-Colchester 15** engine lathe

- 15" x 50"
- 2" Spindle bore
- 8" 3 jaw chuck
- Tool Holder
- 12" Rotary Table & face plate

#### RADIAL DRILLS/DRILL PRESSES

**1 - American Hole Wizard** radial arm drill

- 12" x 6'
- 34" x 83" Slotted base
- 28" x 28" Slotted Table

**1 - Cincinnati Bickford Super Service**

#### GRINDERS

**2 - Okamoto L-6.18** Surface grinders

- 6" x 18"
- 2" Spindle bore
- 8" 3 jaw chuck
- Tool Holder
- 12" Rotary Table & face plate

**1 - Boyar-Schultz No. 2** profile grinder

- 2 HP
- 18" x 20" Table

**1 - Wilton** combination belt/disk sander

- 6" Belt
- 10" Disk

#### HANDLING EQUIPMENT

1 – 30 Ton Overhead Crane

1 – 25 Ton Overhead Crane

1 – 5 Ton hoist

1 – 5 Ton hoist

**1 – Taylor TC-200S** rigger forklist

- 20,000 lb capacity
- LP, cushion tires and 2 stage mast
- 48" forks

**1 – JLG Model 35** electric manlift

- 48 volt electric with built in charger
- 35' platform height
- 20'6" reach, 500 lb capacity, pneumatic tires

**\* All Press Equipment Listed on  
Separate Press Spec Sheets**

## INSPECTION EQUIPMENT

### 1 - Wenzel Prazision coordinate measuring machine

- 64" Max height
- 48" reach
- 79" W x 100" L x 12" H black granite surface plate
- Renishaw PHC9 probe head controller
- Dell Dimension 8200 computer
- Virtual DMIS software

### 1 - Rockwell Hardness tester

## WELDING EQUIPMENT

### 1 - Miller Trailblazer 251 Welder

- CC/CV AC/DC
- 4000 Watt generator, LP, On a cart

### 1 - Miller CP-250 TS welder

- CV/DC arc welding power source
- Miller S-22A wire feeder

### 1 - Miller Syncrowave 250 welder

- AC/DC arc welding power source
- Leads, tig gun and foot control

### 1 - Miller Maxstar 150STH welder

- s/n LE510212M
- Leads and diamondback 17V torch

### 1 - Thermal Dynamics Pak Master 50XL

- Plasma cutting system with leads & gun

### 2 - TJ Snow SP1-15-75-30 spot welder

- 75KVA with Model 105 microprocessor controls
- Leads and diamondback 17V torch

### 1 - Robotron AVA-3 spot welder

- 300KVA
- with bowl feeder, with (2) pneumatic nut feeders
- with double palm buttons

## AIR COMPRESSORS

### 1 - Ingersoll-Rand SSR-EP-150

- Rotary screw air compressor
- 150 HP

### 1 - Hankinson International PR1000A

- R-22 Refrigerant air dryer

### 1 - Manchester 1060 gallon air receiver tank

## PLANNED 2009 ADDITIONS

### 1 - NTC 5 Axis Laser System

- 6' x 10' Table
- 2500 Watt



### 1 - FPT CNC Machining Center

- 98" Horizontal
- 60" Vertical
- 39" Cross Travel with CNC Controlled Table



## PRESS SPECIFICATIONS



111 Commerce Blvd  
Frankfort, KY 40601  
502/565-4386



	1100 Ton Niagra	1000 Ton Clearing	1000 Ton Clearing	800 Ton Clearing	800 Ton Clearing	400 Ton Komatsu	400 Ton Stamtec	400 Ton Verson	400 Ton Verson	400 Ton Verson	300 Ton CCI	300 Ton CCI	110 Ton Komatsu	60 Ton Komatsu
<b>Bed Size (LR/FB)</b>	240" x 72" (2 Rolling Bolsters)	144" x 72" Rolling	120" x 72" Rolling	144" x 72"	144" x 72"	122" x 61"	108" x 60"	96" x 72"	132" x 72"	132" x 72"	108" x 48"	108" x 48"	40.5" x 25"	33.25" x 18.25"
<b>Shut Height (Min)</b>	40.5"	48"	48"	15"		24"	30.5"	24"	42"	42"	28"	28"	14.96"	11.81"
<b>Shut Height (Max)</b>	62.5"	60"	60"	76"	76"	36"	36"	34"	48"	48"	40"	40"		
<b>Stroke</b>	24"	24"	24"	28"	28"	16"	12"	14"	8"	8"	18"	18"	5.91"	4.72"
<b>Speed (SPM)</b>	10 - 20	10 - 24"	10 - 24	10 - 24	10 - 24	20 - 40	20 - 40	20 - 40	20	20	20	20	10 - 60	10 - 60
<b>Electronic Controls and Die Protection</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Coil Feeder</b>	Yes	Yes	Yes	Yes	No	Yes	No	Yes	No	No	No	No	Yes	No
<b>Max. Width</b>	60"	60"	60"	62"	N/A	40"	N/A	60"	N/A	N/A	N/A	N/A	25"	N/A
<b>Max. Weight</b>	30,000 LBS	20,000 LBS	30,000 LBS	30,000 LBS	N/A	30,000 LBS	N/A	20,000 LBS	N/A	N/A	N/A	N/A	4,000 LBS	N/A

## PRESS SPECIFICATIONS



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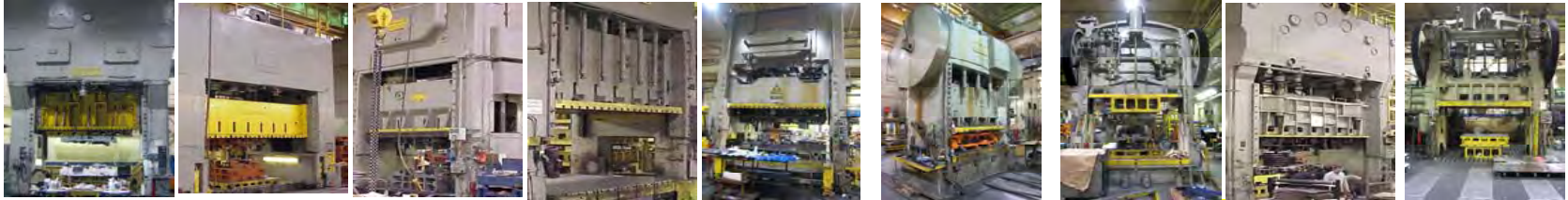


	1600 Ton	L1 1000 Ton	L2 1000 Ton	L3 1000 Ton	L4 1000 Ton	L5 500 Ton	L6 650 Ton	550 Ton	400 Ton	200 Ton Bliss
<b>Bed Size (LR/FB)</b>	220" x 180"	132" x 172"	132" x 84"	132" x 84"	132" x 84"	80" x 114"	100" x 154"	72" x 143"	72" x 127"	48" x 84"
<b>Shut Height (Min)</b>	32.50"	26.00"	26.00"	26.00"	26.00"	46.25"	56.75"	72.00"	55.875"	22.00"
<b>Shut Height (Max)</b>	66.00"	56.00"	56.00"	56.00"	56.00"	58.25"	71.50"	79.50"	71.75"	30.00"
<b>Stroke</b>	40"	24"	24"	24"	24"	20"	36"	20"	20"	25"
<b>Speed (SPM)</b>	8	16	16	16	16	12	12	12	12	12
<b>Cushion</b>	Yes	No	Yes	Yes	No	Yes	No	No	Yes	No
<b>Coil Feeder</b>	Yes	Yes	No	No	No	No	Yes	Yes	No	Yes
<b>Max. Width</b>	72.00"	60.00"	N/A	N/A	N/A	N/A	59.50"	37.50"	N/A	14.00"
<b>Max. Weight</b>	40,000 LBS	20,000 LBS	N/A	N/A	N/A	N/A	20,000 LBS	10,000 LBS	N/A	5,000 LBS

## PRESS SPECIFICATIONS



731 Broadway NW  
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	<b>1600 Ton</b> Verson	<b>800 Ton</b> Clearing	<b>750 Ton</b> Cleveland	<b>600 Ton</b> Verson	<b>450 Ton</b> Clearing	<b>400 Ton</b> Minster	<b>245 Ton</b> Toldeo	<b>1000 Ton</b> Clearing Double Action	<b>800 Ton</b> Bliss Double Action
<b>Bed Size (LR/FB)</b>	166" x 66"	144" x 72"	138" x 72"	120" x 72"	126" x 80"	96" x 64"	103" x 51"	208" x 90"	126" x 80"
<b>Shut Height (Min)</b>	56.10"	49.00"	36.75"	35.00"	33.00"	14.25"	40.75"	38"	52"
<b>Shut Height (Max)</b>	65.00"	60.75"	60.75"	45.00"	45.00"	30.00"	45.50"	78"	61"
<b>Stroke</b>	42"	28"	36"	20"	24"	16"	20"	26"	22"
<b>Speed (SPM)</b>	8	20	10	14	12	13	20	8	6
<b>Cushion</b>	No	No	Yes	Yes	Yes	Yes	Yes	No	No
<b>Coil Feeder</b>	No	No	No	No	No	No	No	Yes	No
<b>Max. Width</b>								52.00"	
<b>Max. Weight</b>								30,000 LBS	