



## EQUIPMENT LIST

### *23 x Horizontal CNC Lathes*

- **DOOSAN PUMA 800XLM CNC TURNING LATHE**
  - 28.00" diameter front 4 jaw chuck, and 23" diameter rear air chuck, 198.8 length with tailstock & steady rest,
  - 12.25" diameter spindle bore
  - 35.43" max turning diameter
  - Steady rest range 1.77" to 13.65".
  
- **OKUMA LU45 III CNC TURNING LATHE**
  - 23.00" diameter air chuck front & rear, 118.00" length w/ tailstock & steady rest, 10.23" diameter spindle bore.
  - 25.98" max. turning diameter, 35.43" max. swing over bed, 21.60" max. swing over carriage.
  - Steady rest range 1.77" to 12.20".
  
- **OKUMA LB45 II CNC TURNING LATHE**
  - 24.00" diameter hydraulic chuck, 118.00" length w/ tailstock & steady rest, 6.23" diameter spindle bore.
  - 25.96" max. turning diameter, 33.00" max. swing over bed, 21.85" max. swing over carriage.
  - Steady rest range 3.35" to 13.78". Manual steady rest 18.00" to 25.00".
  
- **MAZAK POWERMASTER PM-U CNC TURNING LATHE**
  - 28.00" diameter 4-jaw manual chuck front & rear, 103" length w/ tailstock, twin turret, 10.25" diameter spindle bore.
  - 31.00" max. turning diameter, 35.50" max. swing over bed, 22.00" max. swing over cross slide.
  
- **DOOSAN PUMA 700 CNC TURNING LATHE**
  - 24.00" diameter hydraulic chuck, 63" length w/ tailstock, 6.45" diameter spindle bore.
  - 35.43" max. turning diameter, 40.55" max. swing over bed, 31.49" max. swing over carriage.
  
- **DOOSAN PUMA 700LM(B) CNC TURNING LATHE (x2)**
  - 20.00" diameter hydraulic chuck, 126" length w/ tailstock & steady rest, 6.45" diameter spindle bore. Live milling attachments on turret.
  - 35.43" max. turning diameter, 40.55" max. swing over bed, 31.49" max. swing over carriage.
  - Steady rest range 1.968" to 12.20".
  
- **DOOSAN PUMA 480L CNC TURNING LATHE**
  - 20.00" diameter hydraulic chuck, 80" length w/ tailstock & steady rest, 6.50" diameter spindle bore.
  - 25.59" max. turning diameter, 35.43" max. swing over bed, 28.34" max. swing over carriage.
  - Steady rest range 1.968" to 12.20".
  
- **DAEWOO PUMA 450B CNC TURNING LATHE**
  - 21.00" diameter hydraulic chuck, 62" length w/ tailstock & steady rest, 5.39" diameter spindle bore.
  - 27.56" max. turning diameter, 35.43" max. swing over bed, 24.80" max. swing over carriage.
  - Steady rest range 1.968" to 12.20".
  
- **DOOSAN PUMA 500 CNC TURNING LATHE (x2)**

- *18.00" diameter hydraulic chuck, 62" length w/ tailstock & steady rest, 5.39" diameter spindle bore.*
- *27.56" max. turning diameter, 35.43" max. swing over bed, 24.80" max. swing over carriage.*
- *Steady rest range 1.771" to 12.20".*



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**Horizontal CNC Lathes (continued)**

- **DAEWOO PUMA 15 CNC TURNING LATHE**
  - 18.00" diameter hydraulic chuck, 62" length w/ tailstock & steady rest, 4.63" diameter spindle bore.
  - 26.00" max. turning diameter, 31.10" max. swing over bed, 21.00" max. swing over carriage.
  - Steady rest range 1.181" to 9.645".
- **DAEWOO PUMA 15 CNC TURNING LATHE**
  - 18.00" diameter hydraulic chuck, 62" length w/ tailstock, 4.63" diameter spindle bore.
  - 26.00" max. turning diameter, 31.10" max. swing over bed, 21.00" max. swing over carriage.
- **DOOSAN PUMA 500 CNC TURNING LATHE**
  - 18.00" diameter hydraulic chuck, 62" length w/ tailstock, 4.63" diameter spindle bore.
  - 27.56" max. turning diameter, 35.43" max. swing over bed, 24.80" max. swing over carriage.
- **DOOSAN PUMA 400LMC CNC TURNING LATHE (x2)**
  - 21.00" diameter hydraulic chuck, 79" length w/ tailstock & steady rest, 6.50" diameter spindle bore. Live milling attachments on turret.
  - 22.00" max. turning diameter, 30.30" max. swing over bed, 23.23" max. swing over carriage.
  - Steady rest range 1.378" to 9.645".
- **DOOSAN PUMA 400LMB CNC TURNING LATHE (x2)**
  - 15.00" diameter hydraulic chuck, 81" length w/ tailstock & steady rest, 4.63" diameter spindle bore. Live milling attachments on turret.
  - 22.00" max. turning diameter, 30.30" max. swing over bed, 23.23" max. swing over carriage.
  - Steady rest range 1.181" to 8.66".
- **DOOSAN PUMA 400LB CNC TURNING LATHE**
  - 15.00" diameter hydraulic chuck, 81" length w/ tailstock & steady rest, 4.63" diameter spindle bore.
  - 21.65" max. turning diameter, 27.56" max. swing over bed, 23.23" max. swing over carriage.
  - Steady rest range 1.181" to 9.645".
- **DOOSAN PUMA 400B CNC TURNING LATHE**
  - 15.00" diameter hydraulic chuck, 41" length w/ tailstock, 4.63" diameter spindle bore.
  - 21.65" max. turning diameter, 27.56" max. swing over bed, 18.90" max. swing over carriage.
- **DOOSAN PUMA 400B CNC TURNING LATHE (x2)**
  - 15.00" diameter hydraulic chuck, 41" length w/ tailstock, 4.63" diameter spindle bore.
  - 21.65" max. turning diameter, 27.56" max. swing over bed, 23.23" max. swing over carriage.
- **DAEWOO PUMA 250L/C CNC TURNING LATHE**
  - 12.00" diameter hydraulic chuck, 51" length w/ tailstock, 3.00" diameter spindle bore.
  - 15.75" max. turning diameter, 22.44" max. swing over bed, 14.57" max. swing over carriage.



## 10 x CNC Machining Centers

- **DOOSAN NHM-1000 CNC HORIZONTAL MACHINING CENTER**
  - *Twin pallet machine w/ 39.50" x 39.50" tables, .001 degree rotary indexing.*
  - *Max. weight capacity 5,500lb.*
  - *Axis travel: X=82.80", Y=49.20", Z=49.20".*
  - *equipped with rotary 5<sup>th</sup> axis.*
  - *High pressure thru' spindle coolant.*
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- **OKUMA MB-8000H CNC HORIZONTAL MACHINING CENTER**
  - *Twin pallet machine w/ 31.50" x 31.50" tables, .001 degree rotary indexing.*
  - *Max. weight capacity 4,400lb, max. work piece 57.08" x 57.08".*
  - *Axis travel: X=51.18", Y=43.30", Z=49.21".*
  - *90 degree rotary 4<sup>th</sup> axis.*
  - *High pressure thru' spindle coolant.*
- **DOOSAN NHM-8000 CNC HORIZONTAL MACHINING CENTER (x2)**
  - *Twin pallet machine w/ 31.50" x 31.50" tables, .001 degree rotary indexing.*
  - *Max. weight capacity 4,400lb.*
  - *Axis travel: X=55.10", Y=41.30", Z=47.20".*
  - *1 equipped with rotary 5<sup>th</sup> axis.*
  - *High pressure thru' spindle coolant.*
- **OKUMA MILLAC 1052V CNC VERTICAL MACHINING CENTER**
  - *86.61" x 41.34" table.*
  - *Max. weight capacity 11,000lb.*
  - *Axis travel: X=80.71", Y=41.73", Z=31.50".*
  - *90 degree rotary 4<sup>th</sup> & 5<sup>th</sup> axis.*
  - *High pressure thru' spindle coolant.*
- **OKUMA & HOWA 852V CNC VERTICAL MACHINING CENTER**
  - *86.61" x 33.46" table.*
  - *Max. weight capacity 5,500lb.*
  - *Axis travel: X=80.71", Y=33.46", Z=29.53".*
  - *90 degree rotary 4<sup>th</sup> axis.*
- **OKUMA MILLAC 852V CNC VERTICAL MACHINING CENTER (x2)**
  - *86.61" x 33.46" table.*
  - *Max. weight capacity 5,500lb.*
  - *Axis travel: X=80.71", Y=33.46", Z=29.53".*
  - *90 degree rotary 4<sup>th</sup> axis.*
  - *High pressure thru' spindle coolant.*
- **OKUMA MB-66VB CNC VERTICAL MACHINING CENTER**
  - *60.20" x 25.98" table.*
  - *Max. weight capacity 3,300lb.*
  - *Axis travel: X=59.06", Y=25.98", Z=25.98".*
  - *90 degree rotary 4<sup>th</sup> axis.*
  - *High pressure thru' spindle coolant.*
- **MAZAK VTC-20C CNC VERTICAL MACHINING CENTER**

- **78.74" x 20.08" table.**
- **Max. weight capacity 1,764lb.**
- **Axis travel: X=65.35", Y=16.10", Z=20.10".**
- **90 degree rotary 4<sup>th</sup> axis.**



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