Machinery Solutions, Inc.

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EMAIL QUOTATION

STOCK #UD10588

Machinery Solutions, Inc. is pleased to quote the following for your consideration:

(1) Milltronics ML26IIx120, 26" x 120", Centurion 9000 control, 8 station turret, S/N 13842 (2020)

Price .....$ 129,500.00

EQUIPMENT WITH

- Milltronics 9000 CNC control w/ 15" touch screen color LCD display, Ethernet connection USB ports, Auxiliary keyboard jack, User definable custom macros, Feed rate and spindle speed overrides, Spindle load meter, Edit key lock-out switch, LCD hour meter, Single spare "M" function with CNC wait channel, Rigid tapping, CSS and Feed/rev with threading, rigid tapping, and thread chasing cycles, Dual Electronic Handwheels for Teach, manual or automatic operation
- 24/15 HP (18/11 kW) 2 Speed Delta/WYE spindle motor
- Cartridge spindle design, 1600 RPM spindle
- 6" Spindle bore w/ A2-11 spindle nose
- Rear mount chuck flange adapter
- Rear mounted 8 Station 1" Automatic Turret w/ One Boring Bar Holder and One Axial Tool Holder
- 500 IPM Rapid Traverse rate
- Chip Conveyor
- Flood coolant
- Full enclosure with sliding front doors and door interlock safety switch
- Tri-color end of cycle warning light
- Work light

- Tail Stock latch and position coupler
- Automatic metered way oil lubrication
- Instruction & Operator manual, parts list, and electrical drawings.

EQUIPPED WITH:

- (1) 16” 3-jaw chuck, front mount w/ 5” bore
- (1) 16” 3-jaw chuck, rear mount w/ 5” bore
- (1) Steady Rest – Roller Type 0.75 - 7.8"
- (1) Steady Rest – Roller Type 7.09 – 16.1"

SPECIFICATIONS:

CAPACITY:

X axis travel	13"
Z axis travel	124"
Swing over bed (diam)	27"
Swing over gap (diam)	34.2"
Gap distance	12.75"
Swing over cross slide (diam)	16.1"

SPINDLE:

Spindle nose	A2-11
Spindle bore	6"
Spindle range	30-1600 RPM
AC spindle motor	24/15 HP (18/11 kW) 2 Speed Delta/WYE
Spindle torque	1,250 ft-lbs.

TAILSTOCK:

Tailstock quill travel	6"
Tailstock quill diameter	3.94"
Tailstock quill taper	MT5

AUTOMATIC TURRET:

Number of tools	8
Tooling size	1"
Boring bar capacity	1.5")
Tool selection	Bi-directional

MOTION:

X, Z axis rapid traverse rate	500 IPM
Max. cutting feed rate	100 IPM
X axis ball screw diameter	1.25"
Z axis ball screw diameter	1.97"
Positioning accuracy*	+/- 0.00025"
Repeatability*	0.0002"
Axis thrust force X,Z	4000 lbs.

GENERAL:

Machine Height	83"
Floor Space Required (W x D)	206" x 84"
Machine Weight	13,200 lbs.
Power required	24 KVA / 60 amps
Voltage required	208-240 Volts / 3 Phase

CONSTRUCTION

* BED, CROSS SLIDE AND SADDLE:

The bed, cross slide, and saddle are composed of Meehanite cast iron, which includes very high dampening characteristics. Heavily ribbed castings provide superior dampening decreasing vibration and harmonics providing aggressive turning ability. The bed casting and saddle are stress relieved to ensure machine geometry is maintained. Spacing of the solid box bed ways creates optimal support for the saddle in full travel. The removable gap (12.75") allows larger turning near the spindle. The "T" slotted cross slide is fully ground and hardened and allows easy mounting of custom tooling.

* WAY SURFACES:

The X& Z-axis way surfaces are hardened and ground with turcite. The square box ways on the Z axis provide added rigidity and strength over a conventional "V" way. Additionally the Z axis ways are widely spaced (405 mm) increasing the stability of the bed and slide providing superior cutting performance. The way surfaces on both axes utilize gibs with easy adjustment to maximize rigidity and maintain geometry throughout the life of the machine tool.

* SPINDLE AND HEADSTOCK:

The fully balanced spindle is driven using a 24/15 HP (18/11 kw) 2 Speed Delta/WYE closed loop full regen AC servo motor. Heavy exterior ribbing on the headstock allows for added rigidity and increased surface area for heat transfer. The spindle is directly driven eliminating gears, oil pumps, vibration, and noise. Five high precision, large diameter permanently greased angular ball bearings support the spindle allowing for heavy work pieces. CSS function is standard promoting longer tooling life and improved part finish. A rear chuck mount is standard with the 6" spindle bore.

* BALL SCREWS AND AXIS DRIVES:

Each axis is driven using a high precision, fully ground ball screw. Each ball screw is supported on each end using angular contact thrust bearings to achieve high rapid traverse rates and thrust. The Z axis ball screw is directly driven using AC servo type motors minimizing backlash and vibration. The 5 mm (X) and 10 mm (Z) pitch ball screws provide a high level of accuracy while maintaining adequate thrust.

* AUTOMATIC TURRET:

An 8 position automatic turret provides quick, reliable tool changes. Turning holders utilize 1" square shank tooling and boring bar holders can accommodate 1.5". The bi-directional turret comes standard with 1 boring bar holder and 1 axial tool holder. Additional holders are available and are interchangeable from station to station.

* LUBRICATION:

Automatic lubrication is provided to the way surfaces and ball screws with oil to eliminate wear. Way oil is delivered by metered valves, which precisely control the volume. A low oil-level alarm warns the user preventing possible damage to the way surfaces and ball screws.

* TAILSTOCK:

The design of the interface free tailstock allows for full cutting along the Z axis travel. The oversized tailstock is ideal for supporting heavy work pieces. The tailstock is easily positioned using a carriage connection coupler. The quill can be moved manually up to 6". A MT#5 dead center is provided with the tailstock.

* COOLANT SYSTEM:

A high volume coolant pump (3/4HP) delivers coolant to the coolant nozzle(s) on each turret station. The 84 gallon coolant tank is separate from the machine bed allowing for quick and easy maintenance. The chip wash down system moves the chips into the chip conveyor using high pressure coolant. The belt type chip conveyor removes the chips from the machine.

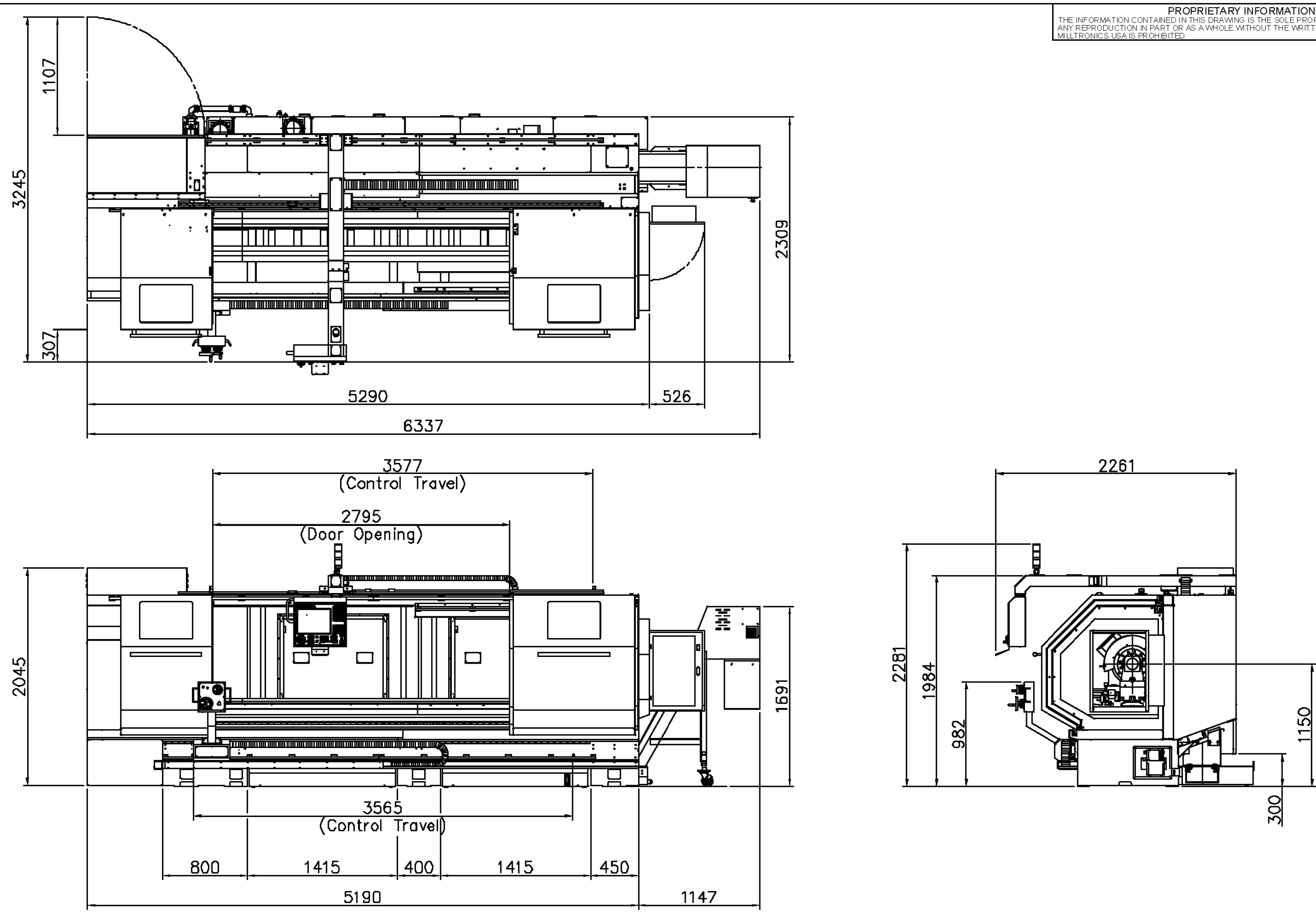
* EDIT KEY:

The edit key enables protection of programs as well as parameters of the 8200-B CNC control. Removal of the key limits a user from loading programs and parameters such as work coordinates and tool offsets. With the edit key in the off position the data in the CNC control is available for editing.

MILLTRONICS 9000-*DGI* CNC SPECIFICATIONS

CNC FEATURES:

- 15’ LCD Screen
- 3000 blocks/second high speed processor
- Conversational programming
- ISO based G&M Code programming
- Inch/Metric Conversion / programming
- Auto routines
- User definable macros
- Trig assist
- Custom Macros
- Irregular pocket clearing
- Rest Machining
- Auto DXF file import
- 3D part and wire frame tool path graphics
- Solid Model Graphic Display
- Onboard diagnostics
- Spindle load meter
- Part counter display
- 120 GB solid state hard drive
- 4 GB Ram Memory
- Networking
- Two USB Ports
- Hour meter
- Manual pulse generator
- Coordinate rotating
- Scaling
- Mirror image
- Helical interpolation
- Feedrate and Spindle Override
- Tool diameter and length offsets (199 total)
- Tool Load Monitoring
- 60 Work Coordinates (G540-G599)
- G92 Coordinate system setting
- Backlash Compensation
- Ball screw pitch error compensation
- Rigid tapping
- Canned cycles including:
    - Drilling
    - Boring
    - Tapping
    - Facing
    - Pocketing with or without islands
    - Threading
    - Bolt hole pattern
    - 3D Pocket/Sweep
    - Text/Engraving
    - Tangent/Circle Generate
- Subprogram Call-50 nested programs maximum
- MDI
- Background Editing
- Program/Parameter protect



REV	E.C.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP'D BY	DATE
A	X	REL						
-	-	-						

SURFACE TREATMENT: ~
HEAT TREATMENT: ~
FIRST USED ON: ML26II

EXCEPT AS NOTED: ALL CORNERS MUST BE AS FOLLOWS
INSIDE: 1.3X 45° or 1.3R MAX
OUTSIDE: 0.8X 45° or 1.3R

EXCEPT AS NOTED: WELDING TOLERANCE MUST BE AS FOLLOWS ±3

GENERAL TOLERANCES UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN METRIC

Range	Tolerance
From 0.5 To 6	±0.1
Over 6 To 30	±0.2
Over 30 To 120	±0.3
Over 120 To 400	±0.5
Over 400 To 1000	±0.8
Over 1000 To 2000	±1.2
ANGULAR	±0°30

MILLTRONICS USA

DESCRIPTION: ML26II-120 OPERATING DIMENSIONS

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
JGW	9-25-19	JCW	9-26-19	CF	9-27-19

SCALE	SIZE	DRAWING	SHT	REV.
-	A1	-	1 OF 1	A

UNIT OF MEAS.: EA

767-1010-011

Note: Machine is in excellent condition and inspected under power. (low hours).

Terms: Net, prior to shipment

FOB: Lexington, South Carolina

Delivery: Immediate