

## ***SALIENT CHARACTERISTICS CNC HORIZONTAL MACHINING CENTER***

**CNC Horizontal Machining Center (Haas EC-1600 or equivalent)** to include the following minimum/equal features:

- Disassemble and Remove existing GPM Titan AFD 105 DRO Horizontal Boring Machine. Install new machine into same space.
- 64" "X-direction", 50" "Y-direction", 32" "Z-direction" (minimum).
- Table size 64" x 36"
- Max Table load 10,000 lbs. min.
- 50 taper spindle.
- 30Hp (22.4Kw) 2-speed geared head, 7,500 rpm.
- Electronic Thermal Compensation to compensate for the expansion and contraction of each linear axis.
- 50+1 side-mount tool changer.
- 600 ipm (15.2 m/min) rapids.
- Max Cutting 500 ipm (12.27 m/min).
- Automatic Chip Auger.
- 95-gallon (360 liter) flood coolant system.
- Enclosure Exhaust System.
- Controller Features- 15" color LCD monitor, Graphic Dry Run, Self-Diagnostics, USB port, Memory Lock Keyswitch, Color Remote Jog Handle, Rigid Tapping, Advanced Pocket Milling, Tool Life Management, Background Editing, Media Display M-Code, M-130, Remote Monitoring, 1 GB program memory, Ethernet Interface and Power Failure Detection Module.
- 8M, 8 additional M-code outputs.
- 64GB Expanded on-board solid state memory.
- HSM, High-Speed Machining.
- DWO/TCPC, G254 Dynamic work offset (DWO) and G234 Tool Center Point Control (TCPC) software features to simplify set-ups.
- WIPS-R, Wireless Intuitive Probing System, Haas Visual Programming System including macros, spindle orientation coordinate rotation and scaling.
- 4AX-E16 full 4<sup>th</sup> axis platter integrated into the table provides fully interpolated motion for contouring and positioning of large parts. Platter diameter is 30" with a 10,000lb weight capacity.
- OIL-SKIMMER, Automatic Coolant Oil Skimmer.
- High Pressure Coolant System.
- WRK TBL EC1600-24V Work table light 24V magnetic mount LED
- HD HV-ISO-XFRMR, Heavy Duty Internal High-Voltage Isolated Transformer for 440VAC operation.
- XL Machine Anchoring Kit.
- IUID Tag, IUID tag plate per MIS-STD-130x.
- Four (4) days operator/programming training, on-site.
- One (1) days maintenance training, on-site.
- NRTL inspection.
- "Turn Key" Installation.
- Freight, Package Freight.