

**Matsuura** PREMIUM MACHINE TOOL MANUFACTURER

**MATSUURA MACHINERY USA, INC.**  
**H.Plus-300** 4-AXIS HORIZONTAL MACHINING CENTER



SN: 22467

Proposal #:M2160

9/2022

**IMTS 2022**



## **MATSUURA FACTORY STANDARDS**

- FANUC G-TECH 311B CONTROL WITH IHMI
- Z-AXIS THERMAL DISPLACEMENT COMPENSATION
- ADVANCED TAPPING (AD-TAP) FUNCTION
- INTELLIGENT PRECISION CONTROL (IPC) FUNCTION
- MATSUURA INTELLIGENT MEISTER SYSTEM (MIMS)
- AUTO GREASE SUPPLY FOR SPINDLE AND FEED AXES
- TOTAL ENCLOSURE GUARD FOR SWarf MANAGEMENT
- SPINDLE RUNHOUR METER
- AUTOMATIC OPERATION RUNHOUR METER
- SPINDLE OVERLOAD PROTECTION
- WORK LIGHT
- STANDARD MECHANICAL TOOLS AND TOOLBOX
- LEVELING PLATE AND BOLTS (NOT FOUNDATION PAD)
- PC TOOL FOR MEMORY CARD PROGRAM OPERATION AND EDITING
- MATSUURA SAFETY SPECIFICATION



## **FACTORY INCLUDED OPTIONS**

### ***H.Plus-300***

SN: 22467

PO No: M2160

Location: IMTS 2022

### **SPINDLE**

**20,000 RPM BT #40 OIL-AIR LUBRICATED SPINDLE**

*INCLUDES 2 YEAR WARRANTY ON ALL SPINDLE COMPONENTS*

### **PALLET CHANGER**

**15 PALLET CHANGER WITH METRIC PALLETS**

### **TOOLS**

**330 TOOL MATRIX**

### **GENERAL**

**SCALE FEEDBACK ON X,Y AND Z AXIS**

**DIRECT DRIVE FULL 4<sup>TH</sup> AXIS TABLE (100 RPM MAX)**

*AUTOMATIC ACCELERATION/DECELERATION CONTROL TUNES INDEXING BASED ON INERTIA OF WORKPIECE.*

*DYNAMIC CLAMPING SYSTEM (DCS) MONITORS THE LOAD ON THE DD MOTOR AND CLAMPING ONLY OCCURS IF NECESSARY*

**AIR BLOW FOR CHIP SWarf REMOVAL**

*EXTERNAL TO SPINDLE AIR BLAST WHILE CUTTING*

**8 SETS OF EXTRA M-FUNCTIONS**

*FOR 3RD PARTY OPTION INTEGRATION – INCLUDES RELAY BOARD*

**WEEKLY TIMER**

*ALLOWS FOR AUTOMATIC SHUT-DOWN & AUTO START-UP WITH SPINDLE WARM UP*

**3 COLOR PRODUCTION MONITORING LIGHT**

*RED / YELLOW / GREEN*

**AIR DRIVEN ROTARY WIPER ON OPERATOR WINDOW**

### **COOLANT**

**70 BAR (1,000 PSI) COOLANT THROUGH SPINDLE PREPARATION**

*COOLANT PUMP NOT INCLUDED*

**COOLANT SHOWER SYSTEM**

*FOR MACHINING AREA WASH-DOWN WHILE CUTTING*

**PROVISION FOR MIST SEPARATOR**

## **PROBING**

**SPINDLE PROBE – RENISHAW OMP-400**

**LASER TOOL SETTER – RENISHAW NC-4**

## **SOFTWARE**

### **SPINDLE LOAD MONITORING FUNCTION**

*ALLOWS AN OPERATOR TO TEACH REFERENCE TORQUE VALUES FOR THE FEED AND SPINDLE AXIS FOR A NEW TOOL. WHEN A TOOL REACHES A WARNING LEVEL THE OPERATOR IS NOTIFIED. IF THE TORQUE VALUES REACH ANOTHER LIMIT THE MACHINE IS HALTED.*

### **TOOL PRE-CHECK FUNCTION**

*THE CONTROL DETERMINES A LIST OF REQUIRED TOOLS FOR THE NEXT PALLET PROGRAM AND ENSURES THAT THE CORRECT TOOLS ARE AVAILABLE BEFORE BEGINNING TO CUT.*

### **3D MODEL OF WORK ENVELOPE IN STL OR IGES FORMAT**

### **OPERATION STATUS MONITORING SOFTWARE (MATSUURA IOT)**

## **CONVEYOR**

### **MOSNIC LIFT-UP CONVEYOR**

*INCLUDING DRUM FILTER AND SPIRAL AUGERS*

## **FANUC PACKAGES**

### **INVERSE TIME FEED**

*FANUC PN A02B-0303-J715*

### **MMU VALUE PACKAGE**

- *TOOL OFFSET PAIRS 999-PAIRS*
- *ADDITION OF WORKPIECE COORDINATE SYSTEM 300-PAIRS*
- *OPTIONAL BLOCK SKIP 9*
- *PROGRAM RESTART*
- *COORDINATE SYSTEM ROTATION*
- *TOOL LIFE MANAGEMENT*
- *PART PROGRAM STORAGE SIZE 8 MEGABYTES*
- *HIGH-SPEED SKIP*
- *COMMON VARIABLE EXPANSION (#100-#199/ #500-#999)*

### **HIGH SPEED HIGH PRECISION PACKAGE**

- *IZ-2/150NF*
- *LOOKAHEAD BLOCK EXPANSION UP TO 1000 PCS*
- *NANO SMOOTHING 1 & 2*
- *OPTIMAL TORQUE ACCELERATION/ DECELERATION*
- *DATA SERVER PACKAGE WITH ETHERNET CONNECTIVITY AND 1 GIGABYTE OF PROGRAM STORAGE*