

**Matsuura** PREMIUM MACHINE TOOL MANUFACTURER

**MATSUURA MACHINERY USA, INC.**  
**MAM72-70V** 5-AXIS VERTICAL MACHINING CENTER



SN: 22536

Proposal #: M2182

9/2022

**IMTS 2022**



## **MATSUURA FACTORY STANDARDS**

- FANUC G-TECH 311B CONTROL WITH IHMI
- SCALE FEEDBACK FOR B & C AXIS
- ATC AUTO DOOR
- SYNCHRONIZED TAPPING FUNCTION
- ADVANCED TAP (AD-TAP) FUNCTION
- INTELLIGENT PRECISION CONTROL (IPC) FUNCTION
- SPINDLE OIL COOLER WITH OVERLOAD PROTECTION
- AUTO GREASE SUPPLY TO FEED AXIS
- INTERNAL SPIRAL AUGER
- CHIP FLUSH SYSTEM
- WORK LIGHT
- TOTAL SPLASH GUARD
- STANDARD MECHANICAL TOOLS & TOOL BOX
- MACHINE COLOR PAINT
- LEVELLING PALLETS AND BOLTS (NOT UTILIZED FOR THE FOUNDATION)
- CD-ROM FOR MEMORY CARD OPERATION
- MATSUURA SAFETY SPECIFICATION
- COMPLETE TRUEPATH SOFTWARE WITH INTELLIGENT PROTECTION SYSTEM (IPS)  
1 YEAR OF SOFTWARE INCLUDED  
*A SUITE OF POST PROCESSING, G-CODE EDITING, MACHINE SIMULATION, COLLISION  
DETECTION, AND ANALYSIS TOOL*



## **FACTORY INCLUDED OPTIONS**

### ***MAM72-70V***

SN: 22536

PO No: M2182

Location: IMTS

### **SPINDLE**

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

*INCLUDES 2 YEAR WARRANTY ON ALL SPINDLE COMPONENTS*

### **TOOLS**

**330 TOOL MATRIX**

### **PALLET CHANGER**

**2 PALLET SYSTEM WITH METRIC PALLETS**

### **GENERAL**

**SCALE FEEDBACK FOR (X,Y,Z) AXIS/ HEIDENHAIN SCALE**

*HEIDENHAIN LINEAR GLASS SCALE FEEDBACK - B & C AXIS ARE STANDARD WITH ROTARY SCALES*

**(8) EXTRA M-FUNCTIONS**

*FOR 3RD PARTY ACCESSORY INTEGRATION*

**3-COLOR PRODUCTION MONITORING LIGHT**

*RED/GREEN/YELLOW*

**WEEKLY TIMER**

*7-DAY AUTOMATIC POWER-UP AND AUTOMATIC POWER-DOWN FUNCTION*

**AIR DRIVEN ROTARY WIPER**

**MOVEABLE MANUAL PULSE GENERATOR**

### **COOLANT**

**MATSUURA FP-70 1,000 PSI THROUGH SPINDLE COOLANT SYSTEM**

*INCLUDES COOLANT PUMP, VACUUM, VACUUM SOLENOID, AND COOLANT CHILLER*

**COOLANT SHOWER SYSTEM**

*FOR MACHINING AREA WASH-DOWN WHILE CUTTING*

**PROVISION FOR MIST SEPARATOR**

### **PROBING**

**LASER TOOL SETTER – RENISHAW NC4**

### **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 OPTION**

*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.*

### **EZ-5 W/ CALIBRATION BALL**

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

### **SYNCHRO TIP + ORBITAL MACHINING FUNCTION**

## **CONVEYOR**

### **MOSNIC LIFT UP CHIP CONVEYOR WITH DRUM FILTER**

## **FANUC PACKAGES**

### **MMU VALUE PACKAGE**

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

### **HIGH SPEED/ HIGH PRECISION + 5-AXIS PACKAGE**

- *IZ-2/150NF*
- *NANO SMOOTHING 1 & 2*
- *OPTIMUM TORQUE ACCELERATION & DECELERATION*
- *DATA SERVER PACKAGE WITH ETHERNET CONNECTIVITY AND 1 GIGABYTE OF PROGRAM STORAGE*
- *TOOL CENTER POINT CONTROL*
- *TILTED WORKING PLANE COMMAND*
- *3D CUTTER COMPENSATION*
- *WORK SETTING ERROR COMPENSATION*
- *INVERSE TIME FEED (G93)*
- *TOOL POSTURE CONTROL*