

MX Series Machine Specifications

|                        |                   |                                                                                   |                                                                                    |                                                                                     |
|------------------------|-------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                        |                   |  |  |  |
|                        |                   | <b>MX-330 PC10</b>                                                                | <b>MX-520 PC4</b>                                                                  | <b>MX-850 PC4</b>                                                                   |
| Travel (X/Y/Z)         | mm (in.)          | 435 / 465 / 560<br>(17.13 / 18.31 / 22.05)                                        | 630 / 560 / 510<br>(24.80 / 22.04 / 20.07)                                         | 900 / 780 / 650<br>(35.43 / 30.70 / 25.59)                                          |
| Travel (A/C)           | deg               | -125 ~ +10 / 360                                                                  | -125 ~ +10 / 360                                                                   | -125 ~ +30 / 360                                                                    |
| Working Surface        | mm (in.)          | ø130<br>(ø5.11) <b>PC10</b>                                                       | ø400<br>(ø15.74) <b>PC4</b>                                                        | ø630<br>(ø24.80) <b>PC4</b>                                                         |
| Max. Work Size         | mm (in.)          | ø330 x H300<br>(ø13.00 x H11.81) <b>PC10</b>                                      | ø520 x H330<br>(ø20.47 x H13.00) <b>PC4</b>                                        | ø850 x H385<br>(ø33.46 x H15.16) <b>PC4</b>                                         |
| Loading Capacity       | kg (lb.)          | 80<br>(176)                                                                       | 175<br>(385) <b>PC4</b>                                                            | 400<br>(880) <b>PC4</b>                                                             |
| Spindle Speed          | min <sup>-1</sup> | 15,000 : BT40 <b>Standard</b>                                                     | 12,000 : BT40 <b>Standard</b>                                                      | 12,000 : BT40 <b>Standard</b>                                                       |
|                        |                   | 15,000 Power Up : BT40 <b>Option</b>                                              | 12,000 Power Up : BT40 <b>Option</b>                                               | 15,000 : BT40 <b>Option</b>                                                         |
|                        |                   | 20,000 : BT40                                                                     | 20,000 : BT40                                                                      | 20,000 : BT40                                                                       |
| Rapid Traverse (X/Y/Z) | m/min (ipm.)      | 40<br>(1,574.80)                                                                  | 40<br>(1,574.80)                                                                   | 40<br>(1,574.80)                                                                    |
| Rapid Traverse (A/C)   | min <sup>-1</sup> | 17 / 33                                                                           | 17 / 33                                                                            | 17 / 33                                                                             |
| Number of Tools        | —                 | 30 : BT40 <b>Standard</b>                                                         | 60 : BT40 <b>Standard</b>                                                          | 60 : BT40 <b>Standard</b>                                                           |
|                        |                   | 60 / 90 : BT40 <b>Option</b>                                                      | 90 / 120 : BT40 <b>Option</b>                                                      | 90 / 120 : BT40 <b>Option</b>                                                       |
| Number of Pallets      | —                 | Fixed Table <b>Standard</b>                                                       | Fixed Table <b>Standard</b>                                                        | Fixed Table <b>Standard</b>                                                         |
|                        |                   | 1 <b>Option</b><br>10 : Floor Pallet System                                       | 1 <b>Option</b><br>4 : Floor Pallet System                                         | 1 <b>Option</b><br>4 : Floor Pallet System                                          |
| NC System              | —                 | <b>Matsuura G-Tech 31i</b>                                                        | <b>Matsuura G-Tech 31i</b>                                                         | <b>Matsuura G-Tech 31i</b>                                                          |

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Matsuura

5-Axis Vertical Machining Center

MX Series

MX-330 PC10



MX-520 PC4



MX-850 PC4



MAXIA  
Innovation by Matsuura

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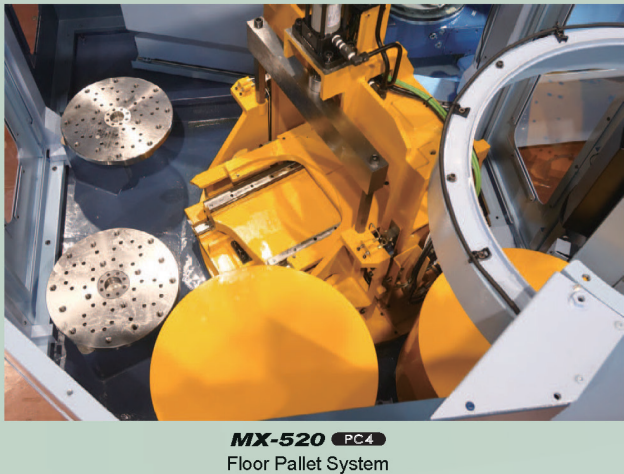
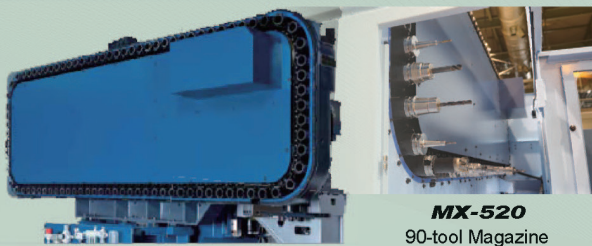


# A Solution to “Automation” and “Unmanned Operation” Needs

Simple automation for the **MX series** with good operability, high machining capability, good cost performance, and the keyword “A Smooth Transition to 5-axis Machining”  
Automation and unmanned operation is enabled in a small footprint.

## Automation Package

- Automation added to the **MX** concept
- Floor pallet system and simple automation package
- Automation system built in a small space



## Schedule Operation Details

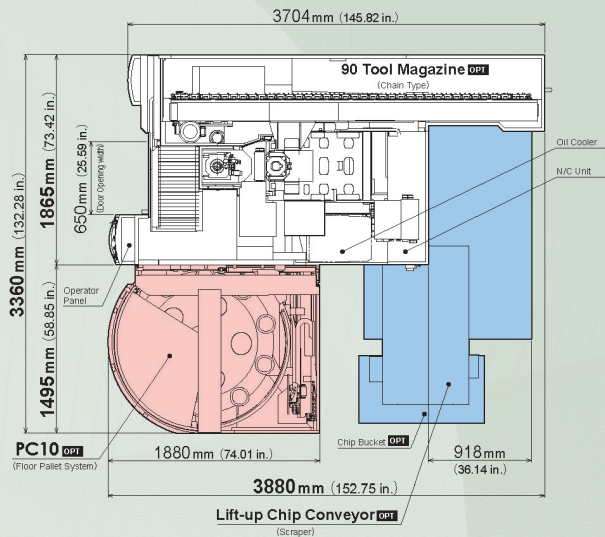
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|-------------------------------|-------------------------------------------------------------------------------------|
| Schedule operation            | Machining from a pallet with a smaller schedule number                              |
| “Interruption” pallet setting | Giving top priority to urgent parts and interrupting in the preset schedule         |
| “Hold” pallet setting         | Setting up pallets during the daytime for unmanned machining at night time          |
| Continuous operation          | Machining specified pallet continuously                                             |
| “End” pallet setting          | Finishing the schedule operation when the machining on an “end” pallet is completed |



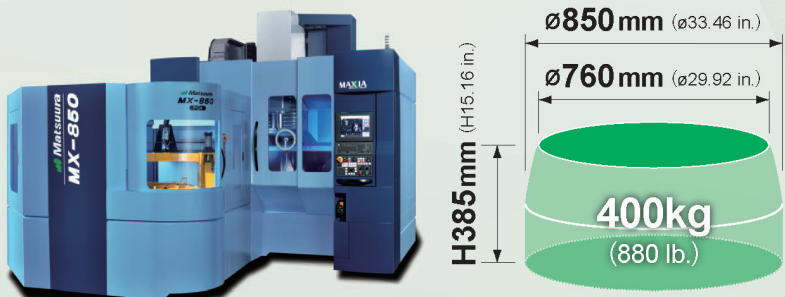
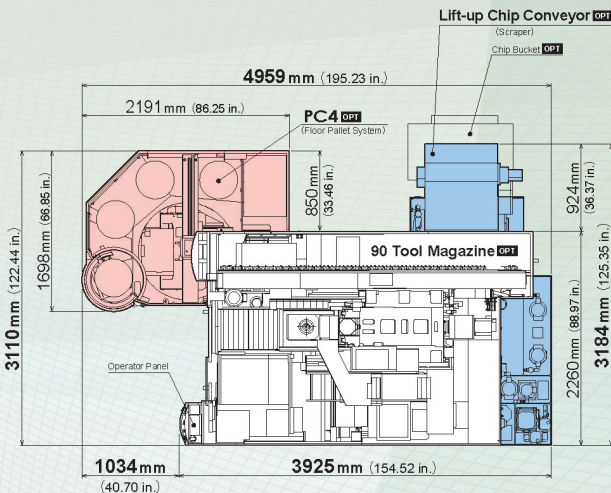
# Unmanned Automation Package Option



| MX-330 Machine Specification |                                      |
|------------------------------|--------------------------------------|
| Spindle Speed                | 15,000 min <sup>-1</sup>             |
| Max. Spindle Motor Torque    | 65.1 N·m                             |
| Pallet                       | CAPTO C6                             |
| Max. Work Size               | ø330 × H300 mm (ø13.00 × H11.81 in.) |



| MX-520 Machine Specification |                                      |
|------------------------------|--------------------------------------|
| Spindle Speed                | 12,000 min <sup>-1</sup>             |
| Max. Spindle Motor Torque    | 120 N·m                              |
| Pallet                       | ø400 mm (ø15.74 in.)                 |
| Max. Work Size               | ø520 × H330 mm (ø20.47 × H13.00 in.) |



| MX-850 Machine Specification |                                      |
|------------------------------|--------------------------------------|
| Spindle Speed                | 12,000 min <sup>-1</sup>             |
| Max. Spindle Motor Torque    | 187 N·m                              |
| Pallet                       | ø630 mm (ø24.80 in.)                 |
| Max. Work Size               | ø850 × H385 mm (ø33.46 × H15.16 in.) |

