

Cycle Time Reduction of 58% with Palletization and Unmanned Machining

Products & Advantages

MX-330 PC10



Cycle time reduction

Cycle time reduction of 58% through palletization & unmanned machining

Manpower savings

Reduced setup time and manpower with a 10-pallet feed system

Elimination of hand polishing

High accuracy & Precision produce superb surface finish

Overwhelming productivity

Achieve 3-4x higher productivity compared to the standard machine

The philosophy at Precision Products is very simple: "Help our customers gain a competitive advantage." In today's economy, that means providing solutions that reduce cost, increase efficiency, and result in significant labor savings. It also means maintaining the strictest standards of quality and delivery – at a competitive cost. In line with this philosophy, the company has installed several Matsuura 5-axis multi-pallet machines, including the **MX-330 PC10** in 2021.

Background

Reduce touches to the part

"The main thing we're trying to do is obviously reduce labor and reduce touches to the part," said Bruce Palmer, VP of Precision Products. For more than 20 years, Precision Products had traditionally manufactured parts by lathing, machining, hardening, EDM, hand polishing, and grinding.

The company determined Matsuura's multi-pallet process integration would be an effective solution. They've remanufactured how they go about making that part by replacing EDM with milling, as it can be done through palletization, maximizing its advantage.

Results

Cycle time reduction of 58% with Matsuura's accuracy & palletization

Precision Products has successfully removed many steps from the process, saving time, with their **MX-330 PC10**, 5-axis multi-pallet machine. "With the precision of the Matsuura and its repeatability, we completely eliminated the EDM process," Palmer explained. Additionally, the company removed the hand polishing process. "We've eliminated polish 100% as well, due to the precision and the surface finish that does not require polish, which is phenomenal and a major leap forward in our process," Palmer added.

Also, Matsuura's palletization and unmanned machining capability are crucial. With the process integration of the EDM and hand polishing into the milling process, along with the automatic feeding system, the company reduced the enormous amount of time and manpower previously required for setup. Consequently, the Matsuura **MX-330 PC10** has enabled a 58% overall reduction in cycle time and manpower savings.



Precision Products

Headquarters : 1701 Industrial Dr, Greenwood, IN 46143, USA
 Foundation : 1974
 # of employee : 25
 Business : Contract machining manufacturer for military, automotive, semiconductor, and other industries.



[Watch the video](#)



*It's palletized and that's where the huge gains are in the reduction of your cycle time. The **MX-330 PC10** can eat the work of three or four standard machines because your spindle only stops running when you're doing a tool change or a pallet change, other than that it's cutting metal.*

With a tool like the Matsuura, that just helps me do that job more easily, more effectively, and more profitably overall, which is key.

Bruce Palmer
 VP, Precision Products

