CNC Machine Tool Cutter Changer

TURNKEY SOLUTION

Seamless integration with your existing production to boost your productivity. This machine replaces tool cutter with ease. It is a great add-on for your CNC machine.

MAXIMUM FLEXIBILITY

Self-contained and designed to work with independently. Batch handling of tool cutters in trays for flexible operation.

QUALITY DESIGN AND DURABILITY

Robust system design with excellent ergonomics. The equipment uses only choicest parts to ensure high quality and long durability.

- Ultra-short Cycle Time to boost your productivity
- Compatible with various tool cutter makes and sizes
- Precise height control for tool cutter insertion
- Intelligent software
- QR Code Reader to capture tool cutter model number

This machine makes replacing the CNC milling machine tool cutter easy. The height of each tool cutter element to be inserted into the master tool holder is can be controlled precisely.

We use advanced technologies to remove and insert tool cutters. First, the machine utilizes induction heating method to heat up the holder to remove the used cutter tool and rapid air cooling to cool off the cutter after the new tool cutter is inserted into the holder.

Conventionally, this tool cutter replacement process must be completed using semi-automatic machine with heavy manual labor. And it is not easy to precisely control the alignment and/or the height of the tool cutter tip. Manual labor inevitably increases the likelihood of damaging the lens resulting in lower yield. The automated lens assembly system is ideally designed to be used in a mass production environment.

The short cycle time is the fastest to-date in the industry. It is achieved by an optimized operation sequence. The system is designed with ease of use and trays can easily be placed inside or removed from the system. The assembled parts are then orderly placed in the output tray without any intervention of an operator. This not only significantly increases the throughput and the yield. Any human errors or mistakes from the operator are also eliminated.

The automated tool cutter replacement system is equipped with a QR code reader that can read the QR code on the tool cutter. Hence, the system can handle tool cutter of various models on a single tray without having to do any sorting.

PINNACLE TECH

PROFESSIONAL SOFTWARE

Modular software architecture that supports various types of lenses. Intuitive software interface design for ease of operation.

COST EFFECTIVE

Ultra-high throughput and short cycle time and at the same time a very cost-effective solution to suit your need.
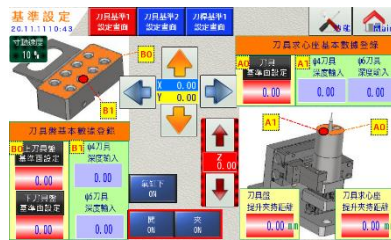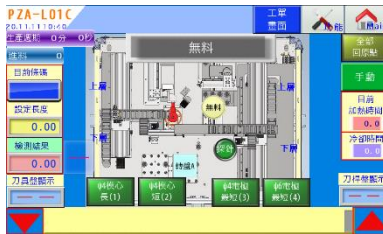
TECHNICAL SUPPORT

From pre-sales technical consultation to post-sales on-site installation and technical support, we provide world class professional support.

To learn more about the product and see it in action, please visit

https://youtu.be/cd80olObREs

For more information on any of our products or services please visit us on the Web at:

www.pinnacle-techpro.com

Software Features

Software GUI

- Support State-of-the-art fly-by visual system inspection of parts to ensure maximum throughput

- Intelligent Algorithm for fast process

- Intuitive software interface

- Open process language for fast and easy process optimization

- Real-time process monitoring and control via IoT sensors

System Specification

Model: PZA-L01C-A	
Cycle Time Per Sample	Less than 50 seconds
Motor System	Servo motor system
Tool Cutter Size	Φ 3 - 25 mm
Supported Tray Size	350 (L) x 200 (W) mm
Repeatability	+/-10.0um (positioning)
Power	3-phase, AC 220V, 50/60Hz
Compressed Air	6 Kgf/ cm^2 300L/min
Power Consumption	2.0 KW
Dimensions	1200 (L) x 1800 (W) x 2400 (H) mm
Weight	700 Kg

Specification subject to change without notice

Inside Working Chamber

SERVICES AVAILABLE

Customized Turnkey Solutions   Technical Support

Installation and Setup   Maintenance   Application Support

Hardware Support

Pinnacle Tech

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