



TOSH Logica Mi.micro N90S

Supplemental Information - Automation Options



Table Stand Version with optional TO-100 Cross Table.

Technical Information

Operation: All-electric with touch screen control

Printing Force: 770N (approx. 172 Lbs)

Max Print Speed: Adjustable to 2,900 c/h*

Number of Colors: 1-2

Max. Cup Diameter: 90mm

Standard Cup Size: 90mm (60mm, 70mm + oval options)

Vertical Stroke: 95mm (programmable in 1mm increments)

Max. Pad Height: 90mm

Power: 230V (+/- 10%), 50/60Hz, Single Phase

Weight: About 50Kg (1 color print head only)

Dimensions: 600mm (d) x 370mm (w) x 900mm (h) (Table stand version)

This document is a supplement to the Micro 90 brochure. It is intended for use in sharing additional information / photos about how we integrate the Micro 90 with TOSH part conveying / automatic eject accessories as well as third-party pre-treatment and post-treatment equipment.

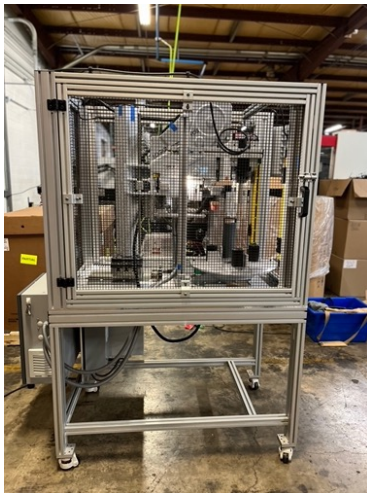
Photos of a Recent Build



This system, installed in late 2022, features a one-color Micro 90 on our standard automation table, with extruded aluminum frame and aluminum table top. The printer is mounted to the table using TOSH's automation post and a TOSH TO-200 XY table (+/- 150mm of travel in both axis). The post has Z axis manual adjustment for the print head relative to the part conveying accessory (in this case a TOSH TRCN-2S rotary table). The 12-station rotary table is fully programmable for speed in 10% increments, as well as variable indexing using 2, 4, 6 or 12 stations, through HMI, which is mounted to the outside of the safety enclosure. Indexing counter-clockwise, the dial indexes parts from the load station at corona pre-treatment (by 3-DT) and hot air drying (by Leister). A Keyence light curtain protects the operator from the corona, hot air and table movement. The light curtain is mounted to the access doors right and left, with the light curtain itself serving as the safety interlock when the doors are opened.



Photos of a Recent Build



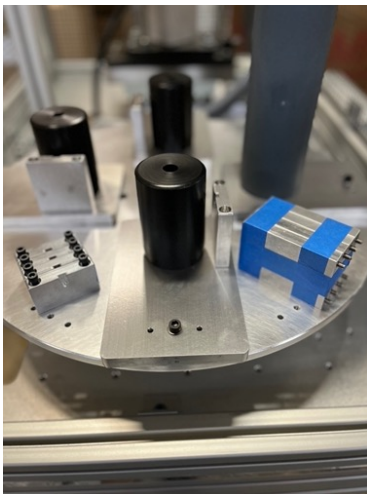
Side view. Note casters.



Mounting post with Z axis adjustment on top of the TO-200 XY cross table.



Light curtain mounted to access door / interlock.



Rotary dial with 4 nests. Note the keyed spacers for each of the three different versions of the parts being printed.



3-DT corona pretreatment head mounted using 80/20 for X and Z axis adjustment over part on rotary dial.



Leister hot air gun head mounted using 80/20 for X and Z axis adjustment over part on rotary dial.



Photos of a Recent Build



TOSH touch screen HMI with Emergency Stop.



Main electrical cabinet with Power and "ready" indicator lights.



3-DT corona pre-treatment electrical / generator.

You've Got Options

There are several options available, including an automatic pad cleaner for the Micro 90 (with programmable cleaning frequency), TOSH PL-300 Linear Indexer instead of the rotary table, TOSH single-axis automatic eject, thinner metering, vision inspection and good vs. bad part separation.

Whether your application requires pre- or post-treatment, you want to go faster, or you want to load and unload with a robot or cobot, stepping up to a more automated system such as the one pictured here makes sense, and is easily cost justified.

Our technical team is available to work with you in identifying the most cost-effective solution for your specific application. We're here to help.

Contact Us Today

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Thank you!

