

Mycronic introduces the MYPro A40: an evolutionary high-speed, high-flexibility pick-and-place platform

Mycronic, the leading Sweden-based electronics assembly solutions provider, is introducing its next-generation MYPro A40 pick-and-place solution, equipped with an all-new MX7 high-speed mounthead technology. The new platform, which increases top placement speeds by 48% while handling a significantly wider range of component types and sizes, will be launched at Productronica 2023 in Munich.

An icon of agility evolves

Mycronic's MYPro MY300 pick-and-place platform, introduced six years ago, has firmly established itself as the industry benchmark for manufacturers with a highly variable mix of products and frequent new product introductions (NPIs). The MYPro A40 further extends these capabilities thanks to a new high-speed MX7 mounthead technology, which places components up to six times larger than previous high-speed mountheads at up to 48% faster top speeds.

Turning up the volume

Manufacturers aiming to boost throughput will welcome the MYPro A40DX's IPC-rated top speed of 59,000 cph (components per hour), compared with 40,000 cph for the MYPro MY300DX. The new MX7 mounthead achieves this by integrating seven independent placement nozzles steered by fourteen individual Z and theta motors. Thanks to an advanced, proprietary motion control system, updating at a rate of 80,000 times per second, it ensures an unprecedented combination of control and speed by optimizing every movement across up to 224 interchangeable feeder positions and 640x510 mm board placement area.

Expanded component range

To accommodate a wider range of applications and technologies, the new mounthead technology expands the upper component size limit by six times, enabling placement of components as large as 45x45x15 mm or 150x40x15 mm. Its capabilities extend down to the placement of components as small as 0.4x0.2 mm (01005), allowing producers to manage the continued miniaturization of PCB technologies.

This unique combination of high placement speeds and a broad mix of component technologies introduces new possibilities for agile, just-in-time production. Traditionally high-mix manufacturers will benefit from the ability to rapidly scale up production volumes without investing in a dedicated high-speed line. Higher-volume manufacturers, meanwhile, will have the opportunity to expand their product mix and take on prototype runs without sacrificing speed or line utilization.

Mycronic AB

Mycronic AB
PO Box 3141
SE-183 03 Täby
Sweden

Visit/Delivery:
Nytorpsvägen 9
SE-183 17 Täby
Sweden

Tel: +46 8 638 52 00
Fax: +46 8 63852 90

info@mycronic.com
www.mycronic.com

Reg office: Stockholm
Reg no: 556351-2374
Vat no: SE556351237401

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A high precision mounthead complements the MX7 to mount chip components as small as 0.3×0.15 mm (009005), and components as large as 99×73×15/22 mm.

New graphical user interface

Outside the machine, a newly designed graphical user interface has been introduced to simplify both training and pick-and-place operations for even novice operators. By providing straightforward touchscreen guidance, the MYPro A40 moves the pick-and-place process another step forward towards the company's ambition of fully automated one-click operations.

Two new high-speed, high-capacity models

At launch, the new pick-and-place portfolio will consist of two models, MYPro A40DX-13 and A40DX-17, with an 8 mm feeder capacity of 160 and 224 feeders respectively. A MYPro A40DX Synergy line will also be available, with up to 448 feeders, for customers seeking the highest possible production volumes by combining two MYPro A40DXs into a unified pick-and-place solution.

Continued leadership in flexible assembly

The MYPro A40 continues in the footsteps of its predecessors by again pushing the boundaries of flexible PCB assembly. With the industry's fastest changeovers, flexible feeders and an array of powerful process control systems, the MYPro Line production concept is designed to keep manufacturers ahead of the accelerating innovation cycles, complex board designs and rapid prototyping demands that are increasingly driving the electronics industry. Complete with standard Hermes and CFX interfaces, it offers a versatile solution that can easily be integrated into virtually any intelligent factory environment.

"The MYPro A40 is the result of several years of intensive development by our global team of R&D engineers in close collaboration with our customers," says Clemens Jargon, Sr VP High Flex Division. "And now it's time for the most exciting part, where we see how customers use this platform to improve product quality, scale up their production and accelerate delivery times. Times are changing, and I'm confident that the MYPro A40 will open up entirely new opportunities for our customers' next phase of growth."

For further details, product specifications or inquiries on the new portfolio of MYPro A40 pick-and-place solutions, contact your local Mycronic sales office or visit [mycronic.com](https://www.mycronic.com).

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For additional information, please contact:

Clemens Jargon

Sr VP High Flex

Tel: +46 8 638 52 00

E-mail: clemens.jargon@mycronic.com

Simon Sandgren

Head of Strategy & Marketing High Flex

Tel: +46 8 638 52 00

E-mail: simon.sandgren@mycronic.com

About Mycronic

Mycronic is a Swedish high-tech company engaged in the development, manufacture and marketing of production equipment with high precision and flexibility requirements for the electronics industry. Mycronic's headquarters are located in Täby, north of Stockholm and the Group has subsidiaries in China, France, Germany, Japan, Mexico, the Netherlands, Singapore, South Korea, United Kingdom, United States and Vietnam. Mycronic is listed on Nasdaq Stockholm. www.mycronic.com

Image Attachments

[Mycronic MYPro A40](#)

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