

DATRON DISPENSING SYSTEMS

Next Generation Dispensing





DATRON

DISPENSING TECHNOLOGY OF TOMORROW

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Highest Dispensing Quality

Advanced pump control ensures outstanding results in the form of consistent bead cross-sections. This reduces the risk of defective parts for you and saves costs and time in quality assurance.

» More Informations

Dispensing as Easy as Never Before!

The DATRON next control is the heart of our production technology. It simplifies the most complex tasks for you and ensures the highest process reliability for your production.

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Productivity Redefined

Achieve maximum efficiency with the DATRON evo 600. Whether high utilization or smaller series sizes - your time savings mean cost savings.

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The Human in Focus

Specifically developed for the operator, the ergonomic design and intuitive software ensure an optimal user experience. Because when the human is at the center, success is preprogrammed.

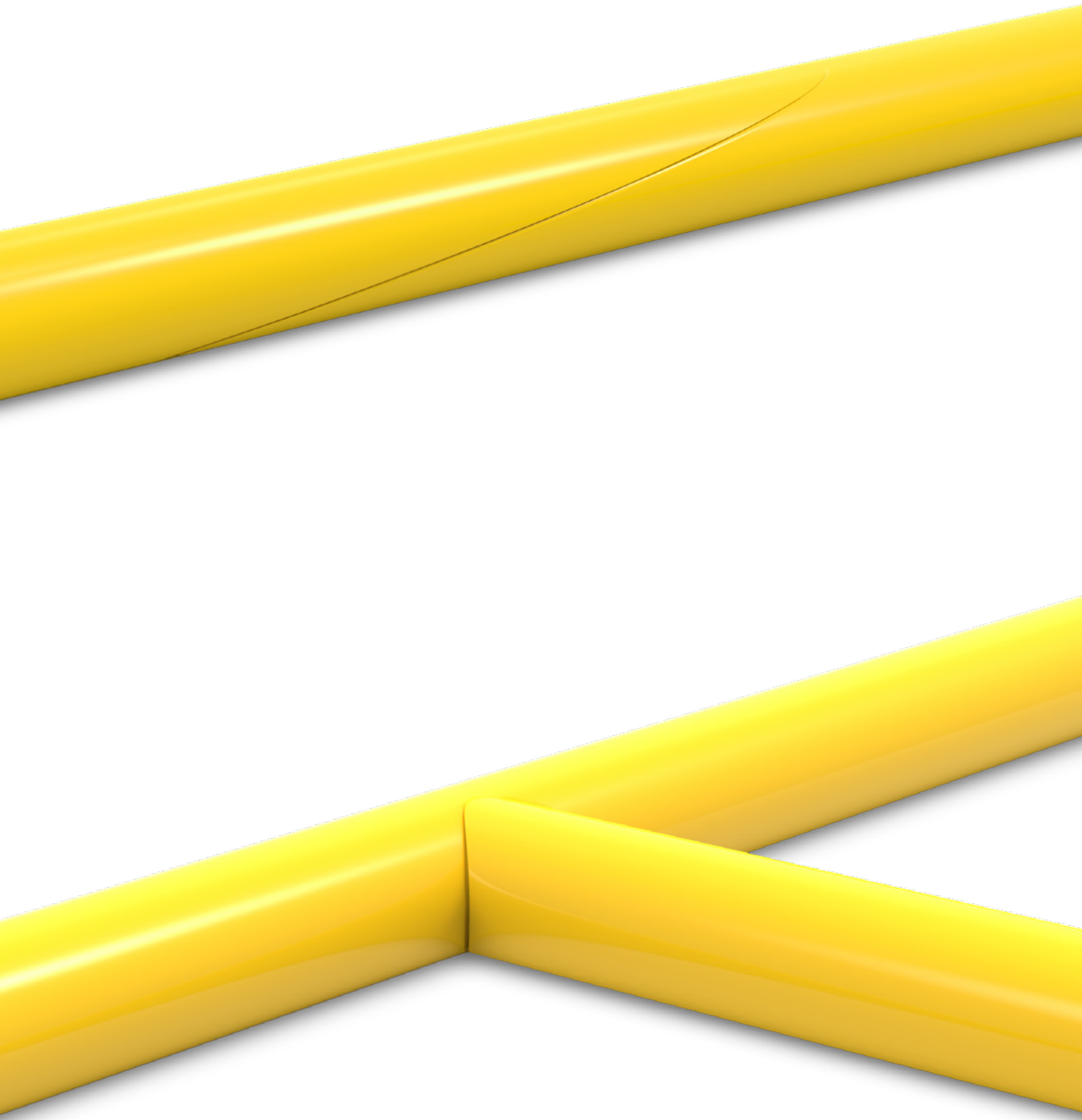
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Limitless Possibilities

Flexible for your individual requirements! React quickly to changing conditions and minimize your investment risk in times of shorter product life cycles.



reddot winner 2024
industrial design



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EXCELLENT DISPENSING QUALITY

A reproducible dispensing result reduces the risk of defective parts and thus saves material and time in quality assurance. This not only protects the environment but also lowers your costs.

Intelligent Dispensing Technology

- The intelligent linking of the movements of the axis system with the dispensing pump leads to constant bead cross-sections (height and width), even at different speeds. This enables optimized cycle times while ensuring the best possible dispensing result.
- Each dispensing application brings individual requirements. To always ensure you the best possible dispensing quality, the axis system and the dispensing pump work in absolute harmony, so that the specific flow properties of each dispensing material and the component geometry are immediately considered. This way, you not only achieve the highest possible dispensing quality for your application but also always have full control over your process parameters and can react easily and quickly to changing production circumstances.
- The DATRON dispensing technology ensures a consistent bead cross-section along the entire dispensing contour. Through precise adjustment of the dispensing quantity and the use of special ramp and stripping strategies, hardly visible thickenings occur even at critical points such as start/stop areas and junctions. The result is a uniform and exact dispensing that meets the highest quality standards.

Technological Strength

- The axis system of the DATRON evo 600 meets the highest precision requirements and ensures outstanding reproducibility of your dispensing results in conjunction with highly developed sensor technology for component and dispensing needle measurement. Rely on DATRON for consistent quality and reliability in every dispensing process.





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DISPENSING AS EASY AS NEVER BEFORE!

The DATRON next control forms the heart of our production technology. Through continuous development, you benefit at any time from the latest functionalities and secure the future viability of your production. The intuitive operating concept simplifies processes and reduces training efforts. Through forward-looking software options, you can further reduce error rates and significantly lower follow-up costs.

With DATRON next Simply to the Goal

- Whether setting up or producing, thanks to the interface tailored to the requirements in the dispensing world, the operator always has the data relevant to the upcoming process step in view. The intuitive operating concept makes working with the DATRON next control as easy as operating a smartphone. The camera options provide additional support for important process steps.
- With the DATRON next control, you effortlessly move from the idea to the finished dispensing process. Prefabricated templates enable the creation of new dispensing programs within a few steps. The technology management offers full control over all process parameters and allows for the quick optimization of existing dispensing programs, even with a large variety of variants.

Smart Options for Your Process

- Leave nothing to chance and save valuable time in quality assurance. The innovative component measurement of the DATRON next control enables highly accurate scanning of the height profile of the entire dispensing contour and automatically adjusts the dispensing height to the desired measurement result.
- Additional options for quality control are available through a fully automatic measurement of the dispensing bead according to the same principle. Users receive a corresponding warning notice in case of any errors in the dispensing bead.

Creating Connections for a Future-Oriented Production

- Connectivity is a decisive factor for progress. With the DATRON next control, you receive reliable solutions for seamless communication between your various systems. Capture and monitor your process data effortlessly and integrate DATRON next seamlessly into your entire production environment.
- This equips you perfectly for an efficient and sustainably positioned manufacturing.

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DATRON

PRODUCTIVE, USER-FRIENDLY & FLEXIBLE

Productivity Redefined

Maximize your output with high utilization or enjoy „more time for other things“ with smaller series sizes. Every reduction in cycle time also means a reduction in unit costs. Therefore, the high productivity of the DATRON evo 600 offers you an indispensable foundation for an economical dispensing process.

- The intelligent pump control guarantees not only the highest dispensing quality but also continuously adapts to the dispensing contour to always achieve the maximum dispensing speed – and that with a consistent bead cross-section.
- The DATRON evo 600 was specifically developed for use in industrial series production. Our portfolio offers you comprehensive solutions for drastically reducing the main and secondary times of your production process. This way, you can further increase the performance of your series production and remain competitive.

The Human in Focus

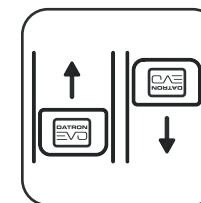
At DATRON, the human is at the center. For this reason, we have dedicated our entire product development to the user. From ergonomic machine design to intuitive programming - everything is designed to make work as simple and efficient as possible.

- While conveyor belts and robots take over the work in automated production lines, the operator plays a central role in systems with manual loading. That is exactly why we have designed the cabin of the DATRON evo 600 for maximum ergonomics and user-friendliness.
- The open cabin design with a wide entry opening facilitates loading and retooling. At the same time, the operator always has the process in view.
- The DATRON next control forms the intuitive interface between human and machine and completes the overall package.

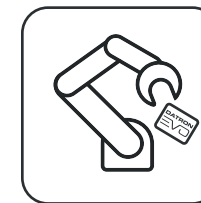
Limitless Possibilities

The DATRON evo 600 was developed to best adapt to individual requirements. In a time of ever-shortening product life cycles, we offer you the necessary flexibility to react to changing conditions and thus reduce your investment risk.

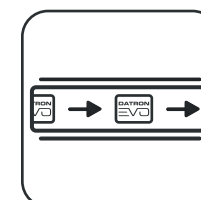
- Exactly the right production solution for your application. The wide range of equipment options gives you the opportunity to align the DATRON evo 600 exactly to your individual needs.
- In a dynamic world, flexibility is the foundation for your competitiveness. The DATRON evo 600 was designed to adapt to your production quantities and can be converted with little effort into a fully integrated system or for manual loading.
- Whether manual loading or fully automated component feeding, the DATRON evo 600 is highly easy to adapt to different project requirements as a plug & play solution. This reduces efforts for the design and integration of your production line and enables a quick start of production.



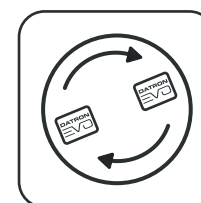
Changing Table



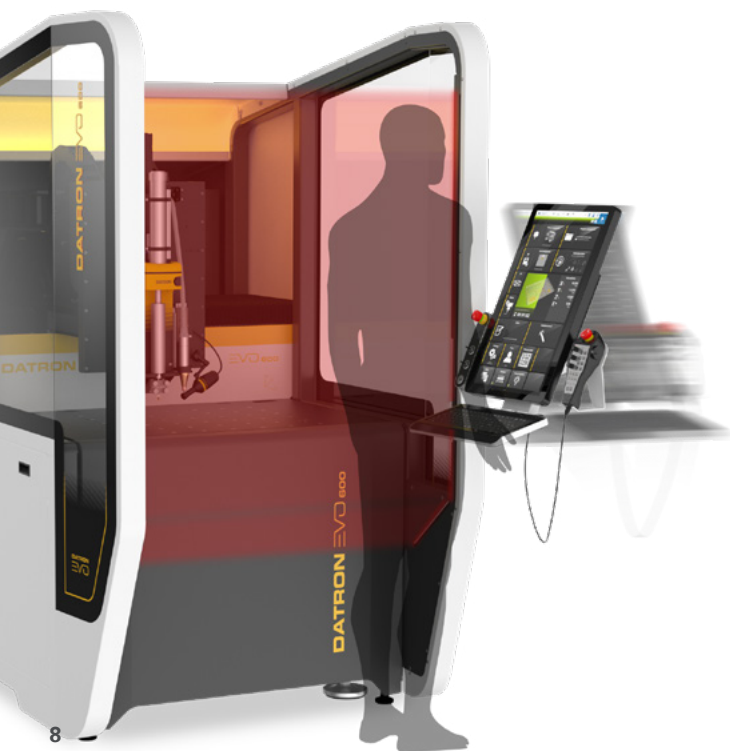
Robot



Conveyor Belt



Rotary Table



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DISPENSING SYSTEM OVERVIEW

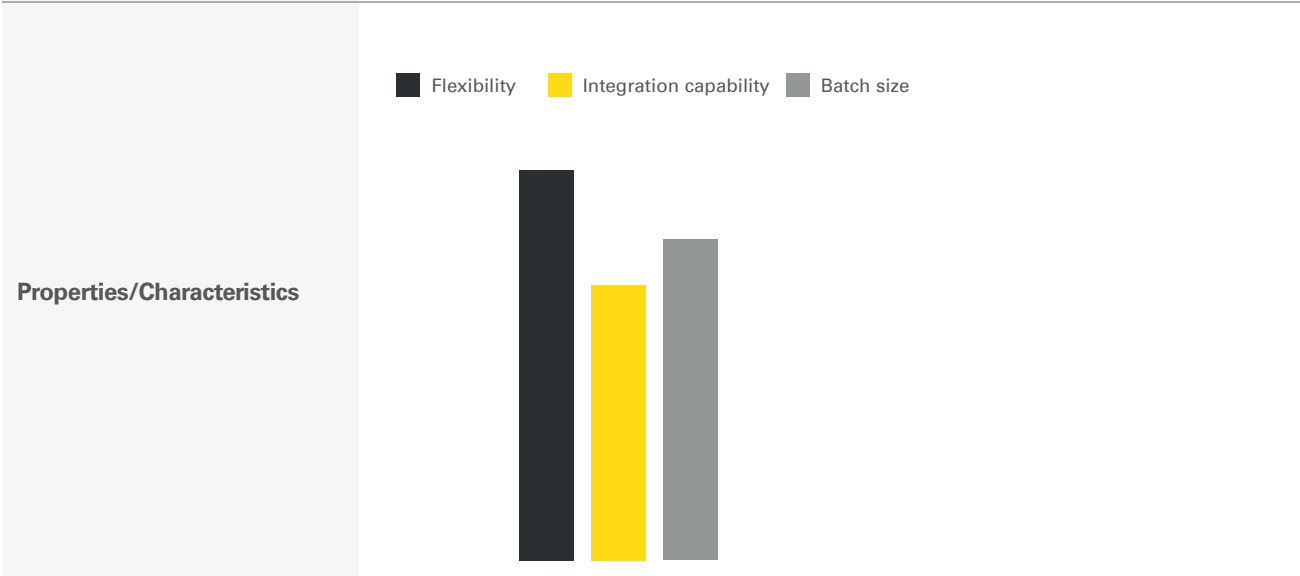
DATRON EVO 600



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ERGONOMIC
& FLEXIBLE

Axis	3+1
Travel path (XxYxZ)	620 mm x 515 mm x 240 mm
Component height	up to 250 mm (factory increase to 450 mm possible)
Jog speed	up to 50 m/min
Drive system	Digital servo drive



Informations on page 12-13

Each application is specific, and we offer the perfect solution for your special needs: Whether as a flexible standalone solution or consistently integrated into your automation: The DATRON evo 600 and the DATRON evo 600 integrate are based on the same powerful technology platform. Our experts are happy to advise you and support you in finding the best and most efficient solution for your application.

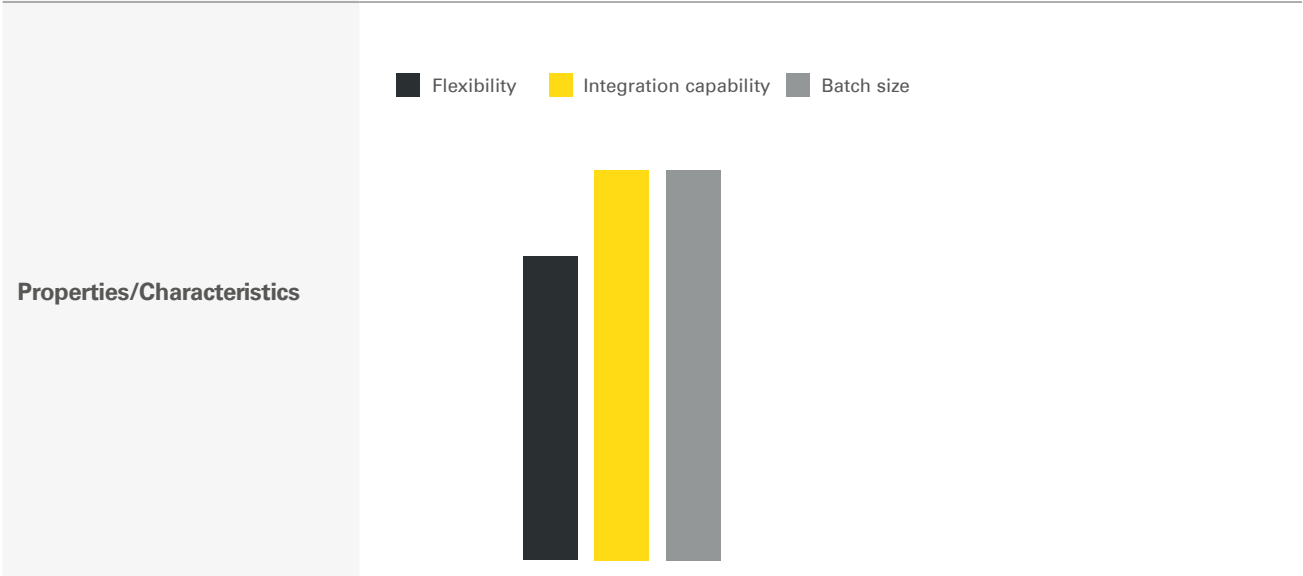
DATRON EVO 600 INTEGRATE



» More Informations

DYNAMIC
& PRODUCTIVE

Axis	3+1
Travel path (XxYxZ)	620 mm x 515 mm x 240 mm
Component height	up to 860 mm
Jog speed	up to 50 m/min
Drive system	Digital servo drive



Informations on page 14-15

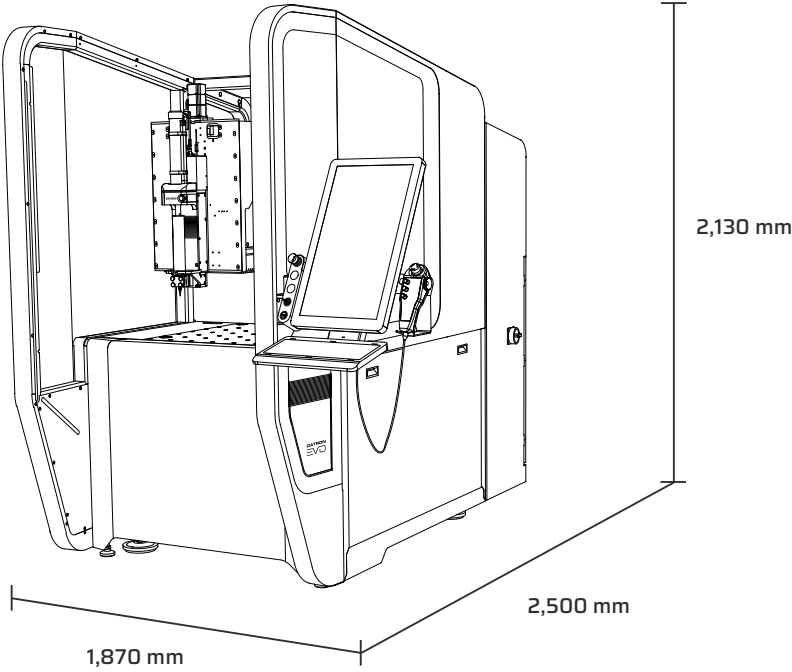
DATRON EVO 600

Experience a dispensing machine with the DATRON evo 600 that revolutionizes your manufacturing processes. Thanks to the innovative DATRON next control and precise dispensing technology, you achieve outstanding dispensing results. The open cabin not only offers easy access for loading and unloading but also guarantees the highest safety through integrated light curtains. The user-friendly interface of the forward-looking DATRON next control enables intuitive handling, while the modular design offers flexibility for configuration. Maximize your efficiency and future viability with the DATRON evo 600.



» More Informations

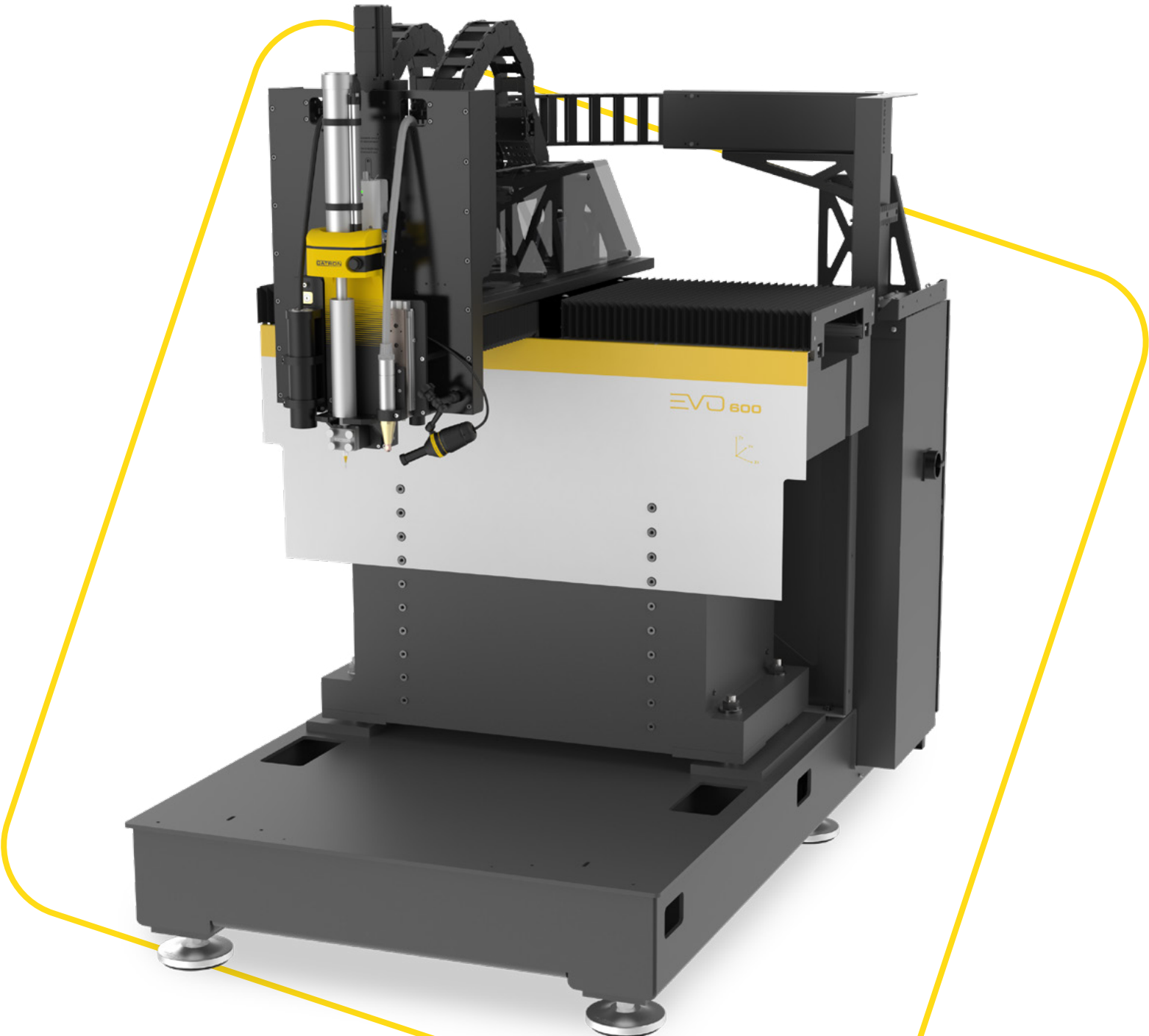
Technical Data



DATRON evo 600	
Machine construction	CNC axis system with table and cabin
Maximum component height	250 mm (factory increase to 450 mm possible)
Jog speed X,Y	up to 50 m/min
Jog speed Z	up to 23 m/min
Traversing area (XxYxZ)	620 mm x 515 mm x 240 mm
Machine table	Aluminum table with M6 cone thread grid (100 mm x 100 mm)
Control system / software	DATRON next
Operating terminal	24" multi-touch screen with additional handheld control panel
Safety concept	Safety light curtain type 4
Drive system	Digital servo drives
Compressed air connection	6.5 bar, purity class ISO8573-1:2010 [3 : 4 : 3]
Electrical connection	400 V, CEE 16 A, 4.5 kVA
Installation dimensions with operating terminal (WxDxH)	1,870 mm x 2,500 mm x 2,130 mm
Installation dimensions without operating terminal (WxDxH)	1,290 mm x 2,200 mm x 2,130 mm
Weight	approx. 1,900 kg

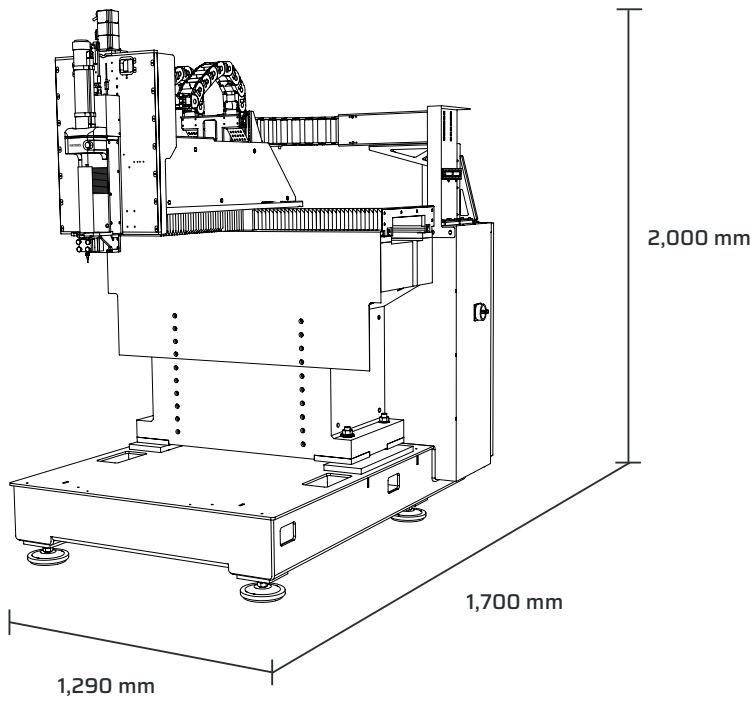
DATRON EVO 600 INTEGRATE

The DATRON evo 600 integrate combines the outstanding features of the DATRON evo 600 and additionally offers maximum flexibility for integration into fully automated production lines. This cabinless variant with a massive substructure and lowerable machine table was developed to ensure the highest flexibility and efficiency. Through the simple connection options for customer-specific component loading, it is optimally suited for industrial series production.



» More Informations

Technical Data

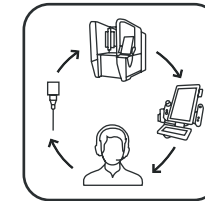


DATRON evo 600 integrate	
Machine construction	CNC axis system with table and cabin
Maximum component height	860 mm
Jog speed X,Y	up to 50 m/min
Jog speed Z	up to 23 m/min
Traversing area (XxYxZ)	620 mm x 515 mm x 240 mm
Machine table	customized or optional aluminum table with M6 cone thread grid (100 mm x 100 mm)
Control system / software	DATRON next
Operating terminal	24" multi-touch screen with additional handheld control panel, installation on customized cabin
Safety concept	customized
Drive system	Digital servo drives
Compressed air connection	6.5 bar, purity class ISO8573-1:2010 [3 : 4 : 3]
Electrical connection	400 V, CEE 16 A, 4.5 kVA
Installation dimensions with operating terminal (WxDxH)	customized
Installation dimensions without operating terminal (WxDxH)	1,290 mm x 1,700 mm x 2,000 mm
Weight	approx. 1,600 kg (incl. operating terminal)

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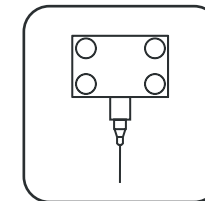
EFFICIENCY WITH SYSTEM

Developed by DATRON. Made for your Success.



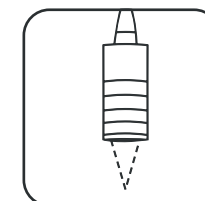
Technology & Process Support

- Your component, our know-how.
- Tailored strategies for your application.
- Technology consulting that delivers measurable results.



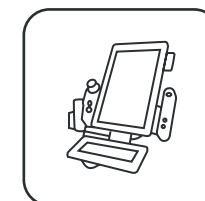
Dispensing Heads & Pumps

- Volumetrically precise delivery technology.
- Independent of viscosity & material properties.
- Optimized for dynamic start-stop sequences.



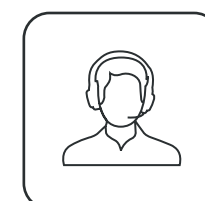
Accessories

- 3D confocal sensor for high-resolution, contactless surface measurement.
- Automated needle measurement.
- High process reliability through the DATRON needle cleaning station.
- Plasma pretreatment for increased adhesion.



Software

- Real-time height correction of the dispensing path.
- Quality analysis of bead width & height
- Camera-based process monitoring.



Services

- Expertise on your doorstep.
- Quick. Competent. Directly from the manufacturer.
- Maintenance, calibrations & training.
- Service that keeps your production running.

Log in via the Service Helpdesk now!
www.datron.de/helpdesk

» Mehr Informationen

We are glad to provide you with detailed information:



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by email:

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or online at:

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Gefördert durch:



Bundesministerium
für Wirtschaft
und Energie

aufgrund eines Beschlusses
des Deutschen Bundestages



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