IN MIKRON

THE AUTOMATION SOLUTION



Inf MIKRON

FOUNDED IN 1908, MIKRON IS TODAY A WORLD LEADER IN HIGH-PERFORMANCE AUTOMATED ASSEMBLY.

RELIABLE AND INNOVATIVE, OUR SOLUTIONS ARE BASED ON PROVEN PLATFORMS AND ARE ADAPTED TO THE SPECIFIC NEEDS OF YOUR COMPANY.

YOUR SATISFACTION IS OUR GOAL

Mikron works in partnership with its customers to design the most effective automation solution for each project. To create tailor-made solutions for the product you want to assemble, we listen... and combine your experience with our own.

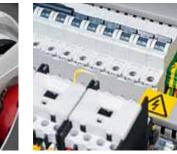
UNIQUE EXPERIENCE ACROSS MULTIPLE SECTORS



Pharma / Medical from insulin pens to asthma inhalers



Automotive from gas generators for airbags to fuel injectors



Electric / Electronic from circuit breakers to mobile phone speakers











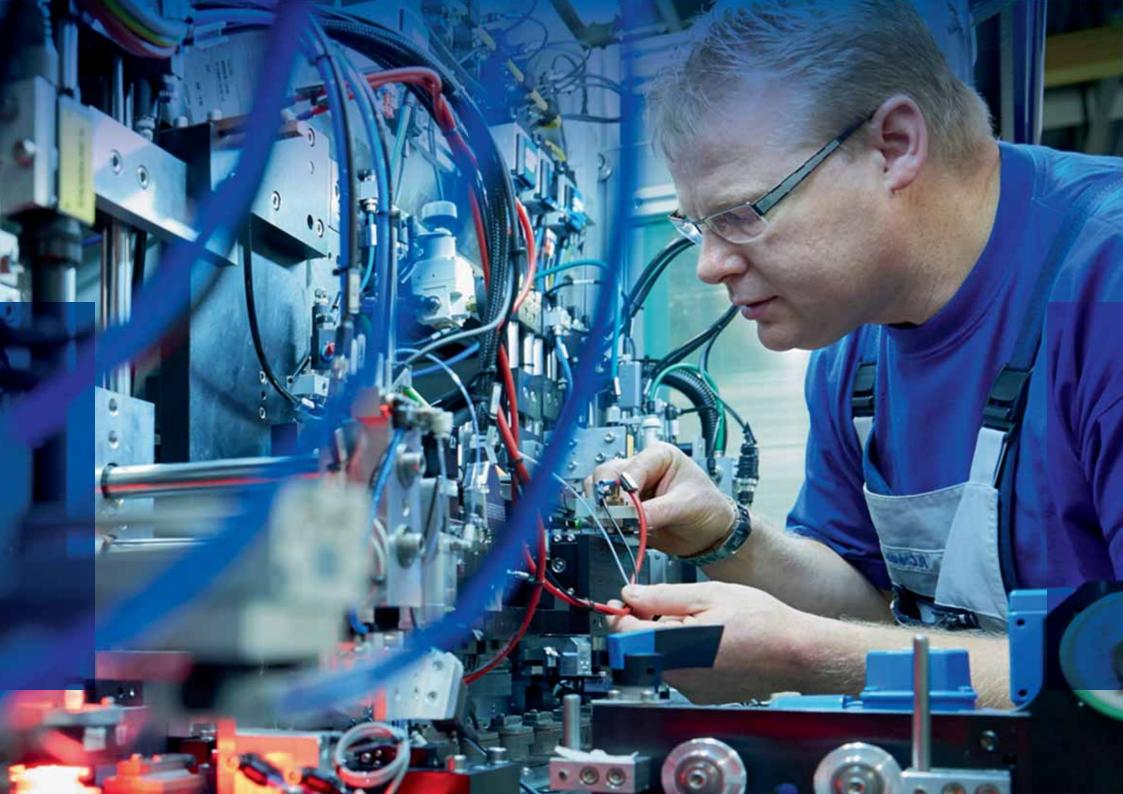
150,000,000

= parts assembled on Mikron solutions each day worldwide

550+

 dedicated employees design, build and support your production solution







SOLUTIONS DESIGNED FOR YOU

To date, close to 3000 Mikron assembly solutions have been successfully installed across the world and are running around the clock.

Mikron-designed automation solutions are developed specifically for you. Their modularity, precision and process flexibility help you to realise your project quickly and efficiently. A flexible solution, that can change to suit your production needs within an ever changing market place.

OUR EXPERTISE – WORKING FOR YOU

Mikron's strengths

- Highly modular, standardised platforms which provide a solid, tried and tested foundation.
- More than 40 years of experience in integrating complex production processes.
- Optimised project management which, combined with our other benefits, ensures the quickest turnaround time.
- With 5 design and manufacturing centers around the world, Mikron expertise and support is where you need it.

PROVEN PRODUCTION AND TEST PROCESSES

Feeding

Bowl Centrifugal feeding Flexible feeding Tray handling Escapement

Handling

Glass handling Needle handling and inserting Tube handling

Testing and Controlling

Functionality tests Flow and leak tests Multiple torque tests Needle tip, angle, length vision check Occlusion check Pull check Quality tests Vision tests X-ray checks

Dosing and Curing

Gluing Greasing Liquid dosing Powder dosing UV curing Thermal curing

Welding

Laser welding Ultrasonic welding Resistance welding

Marking and Printing

Hot-Foil marking Inkjet printing Labelling Laser marking Pad printing

Data management

Data capture Line management Statistics Traceability

Forming and Stamping

Clinching Forming Riveting Hard and soft material stamping

Other specific processes

Coil winding Magnetization Photovoltaic related processes

EVERY DAY 150,000,000 COMPONENTS ARE ...



... ASSEMBLED ON MIKRON SOLUTIONS



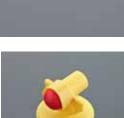


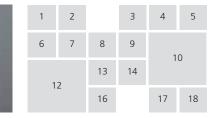












Pharma / Medical

- 3. Stopcock
- 6. Glass syringe
- **12.** Inhaler for asthma
- 13. Auto-injector
- **15.** Plastic syringe
- **17.** Closer for ISO vials
- **20.** Shielded winged IV needle (Butterfly needle)
- 24. Diagnostic kit
- 25. Pen injector
- **26.** Dose counter for inhaler
- **28.** Lancet

Automotive

- 2. Airbag gas generator
- 4. Rocker
- 9. Seat belt buckle
- 10. Gasoline injector
- 16. DC motor
- 23. Ignitor for airbag gas generator
- **27.** Synchronizing ring for gearbox

27 28 29

20

23

21

Electrical / Electronic

11

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19

- 1. Electrical switch
- **14.** Loudspeaker for mobile phone
- 19. Connector block
- 21. Electrical socket
- 29. Circuit breaker

Consumer goods

- 5. Cosmetic dispenser
- 7. One-way pressure-relief valve
- **11.** Carburetor for outdoor power equipment gas engines
- **18.** Quick pneumatic fitting
- 30. Fluid Tap

Industrial / Building

Gas valve for cooking plate
Sprinkler



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PARTS AND PARTNERSHIP

After installation, our customized training and production assistance introduces your people to the feel and function of the new system, increasing productivity by reducing the learning curve.

Our support continues with remote maintenance tools, a service hotline, and the expertise of our technicians – who arrive at your site to personally provide support throughout the entire service life of your assembly solution.

CONTINUOUS IMPROVEMENT

Need to make changes to your parts? Thanks to the flexibility of Mikron solutions, and the experience of our engineers, your line can be improved and adapted throughout its service life.

WE ARE COMMITTED TO ENSURING THAT THE FINAL RESULT MEETS YOUR EXPECTATIONS.



GROWN FROM THE SAME ROOTS AS THE SWISS WATCH-MAKING INDUSTRY, MIKRON SHARES THIS SAME PASSION FOR PRECISION, RELIABILITY AND PERFECTION.

AS YOU READ THESE WORDS, CLOSE TO 3000 MIKRON SOLUTIONS AROUND THE WORLD ARE RUNNING – LIKE SWISS WATCHES.



THESE CUSTOMERS TRUST MIKRON

Renowned companies around the world place their trust in Mikron - for precision, performance and success.



ABB AEG Aerogen Ltd Albrecht Jung Alere Aptar Group B. Braun Medical Bausch&Lomb Bespak Boehringer Ingelheim

Briggs & Stratton Chiesi Farmaceutici Cilag Connectwell Continental Dayco Eli Lilly and Company Federal Mogul **GE** Power Controls Gerresheimer



Gira GlaxoSmithKline Hager Electro Huber+Suhner ITW Ark-Les Johnson Controls Knowles Legrand MeadWestvaco Metal Work



Schlaeger Kunststofftechnik Nemera Novo Nordisk Nypro Osram Owen Mumford Pierburg Philips Phillips-Medisize

Pfizer

Renault Robert Bosch Rockwell Automation Röhm Sabaf SAIA-Burgess Solarnova Sanofi Schneider Electric Schott

Siemens Teva Pharmaceuticals Industries Trodat TRW Tyco Fire Products Unilever Unilife Worldwide Dispenser Ypsomed ZF



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