THE MIKRON G05™ – STANDARD PLATFORM
FOR YOUR AUTOMATION SOLUTION

The linear assembly cell Mikron G05 is based on the use of standard building blocks which offer flexibility and modularity. The platform makes use of a central drive and cam based modular units for all common motions, thus guaranteeing perfect synchronization between the working units and the pallet indexing system. Fixed pallets enter the cell and are stepped either 60, 120, 160, or 240 mm depending upon the model. Each assembly step is followed by a systematic check to ensure continuous and consistent quality. Multiple cells can be linked together, depending on project requirements, which allow full-fledged flexibility. Improved accessibility for both operators and maintenance personal is guaranteed as a result of the system’s linear concept. All building block components are designed for speeds up to 100 cycles per minute. The use of modular working stations, semi- and fully automated cells offer progressive investment from pilot to fully automated lines.

YOUR BENEFITS

Short lead times
Production cycles have become increasingly shorter. It is therefore necessary to accomplish changes in a very short time – research, design, prototyping, manufacturing, etc. The modular concept of the system allows for quick reconfiguration, thus ensuring fast delivery times.

Rapid changeover: modular adaptability
The modular nature of the modules can be programmed, adjusted and tested off-line by the user. The software producing and facilitating reprogramming is flexible and allows modifications to be made in real-time, thus reducing set-up times.

Progressive investment
Choosing the modular approach allows for a flexible and cost-effective investment strategy. The assembly cell concept is cost-effective and allows for a flexible changeover to new product designs or process requirements. The system can be retrofitted to meet new demands from a simple or semi-automatic to a fully automatic production solution.

Cleanroom compatibility
From the outset, the G05 line offers the ideal solution for current cleanroom conditions for class 600/1,000/10,000 applications. Featuring elements with limited contamination, the modular design enables the use of optional configurations over concepts, easy accessibility and cleaning.

Pharma and medical qualification
The pharmaceutical and medical industry is governed by extremely tight regulations, and the production process of all cells need to be verified by means of strict regulations. To meet these specific needs, Mikron Automation ensures that the G05 is compliant with the latest international standards and regulations. The modular design has been put to a strenuous test and the resulting functionality, maintenance, and serviceability has been validated according to GMP A and GMP B criteria.

Easy programming and operation
A modular computerised control system is fully integrated into the system and offers easy programming through the touch screen with intuitive and user-friendly interface. The control and operation software is specifically designed for each type of cell. The user interface is made up to configure standard functions.

Process integration
A modular computerised system is the most flexible of the Mikron line and can be used for general applications in various industries. The modular design has been designed to integrate high-speed production even when they are very constrained. Flexibility of the design ensures that the cell’s performance is maximized. The efficient operation of the assembly process is the most important requirement of all customers. The overall flexibility and supporting functions of a fully optimised system.

FEEDING SOLUTIONS

Mikron G05 Standard Platforms

TECHNICAL SPECIFICATIONS

- Standardised design concept with power and free pallets, semi-indexed and exchangeable modules to suit the process cell
- Assembled product size: product that you can hold in a hand
- Hosing area: 3.75 m
- Speed: up to 100 cycles per minute
- Cell configuration: 1 Process Module (635 mm x 151 mm x 2222 mm), 2 Process Module (2155 mm)
- Full size: 426, 506, 666, or 2400 mm
- Module repeatability: ±0.03 mm
- Up to 16 processes on a single module for flexibility
- Semi-automated: PC, PLC Drive, and Servo Drive
- Process integration: mechanical semi-automated process units, high speed paper feed unit, customer specific process steps, brushes and hand feeders
- Infeed and output device: transport- and load-unloading according to G-code

5 REASONS TO WORK WITH MIKRON

1. Proven technology over 50 years of experience in precision machining and assembly
2. Reliable and technical production solutions with high added value – machine tool, cell, process, module, standardised and proven automatic platforms
3. Short delivery time – quicker time to market
4. Mikron worldwide organisation is committed to your project success, with worldwide service centres in 277 countries and services
5. Long-term partnerships – quality references

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THE G05 PRODUCT FAMILY OFFERS CUSTOMIZED PRODUCTION SOLUTIONS BASED ON HIGH PERFORMANCE ASSEMBLY PLATFORMS COMBINED WITH FLEXIBLE FEEDING SYSTEMS. THE G05 IS OUR CONTRIBUTION TO THE SUCCESS OF YOUR AUTOMATION PROJECT.