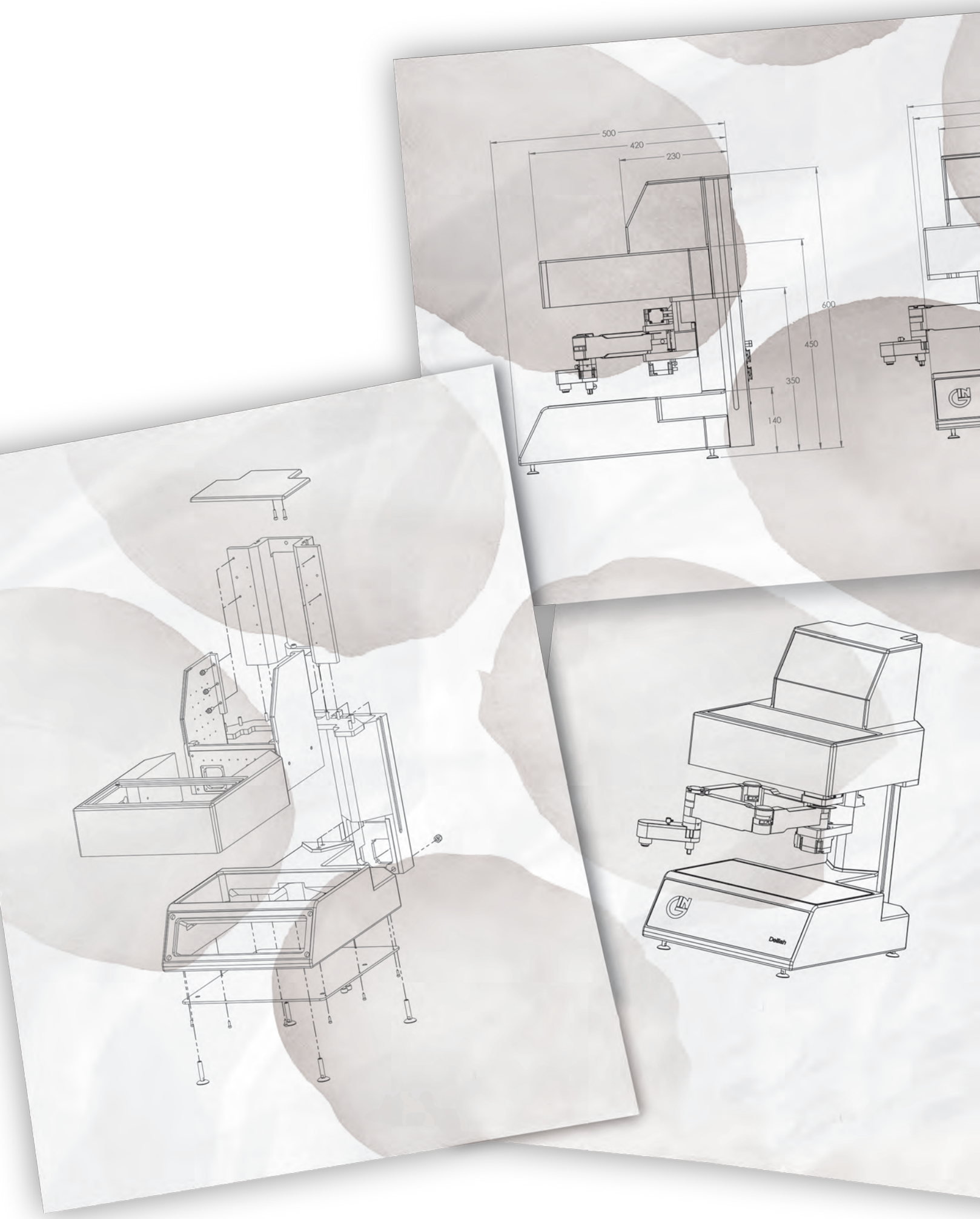
New Innovations in Laboratory, Diagnostic and MedTech Manufacturing Automation

Global Innovation Network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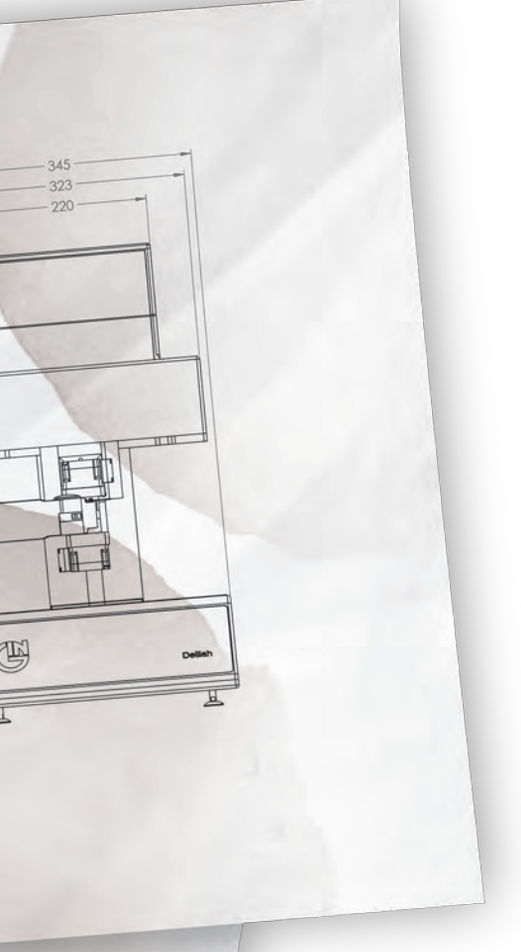

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Facts about GIN

Business Units

Global Innovation Network (GIN) Ltd. provides innovative solutions for laboratory automation, diagnostic device manufacturing and MedTech companies. GIN introduces industrial automation quality and performance in its products and solutions.

Laboratory Automation	Diagnostic Test Manufacturing Automation	MedTech Manufacturing Automation

Global Innovation Network Ltd.

Global Innovation Network Ltd. develops standardized, modular and space saving automation solutions for sample and liquid handling in diagnostic and drug screening processes and for diagnostic test and implant manufacturing.

GIN's business operations are based on strong automation know-how and business line expertise – all of which are visible in the innovative, efficient and reliable product range for laboratory automation instruments and diagnostic test manufacturing solutions and dental implant manufacturing.

GIN solutions are best suited for high mechanical precision and small liquid volume handling in both laboratory automation and diagnostic test manufacturing. We have specific knowledge in e.g. microfluidic device manufacturing solutions and electro-chemical sensor solutions.

GIN's Core Competences are:

- Strong manufacturing automation competence
- Deep understanding of manufacturing needs
- Expertise in microfluidics
- Expertise in liquid handling
- Wide international multidisciplinary business experience & network

Delilah

Efficiency in Laboratory Automation

GIN introduces industrial automation quality and performance in its laboratory automation products. Our reliable and maintenance free products provide unique performance and user friendliness in laboratory automation.

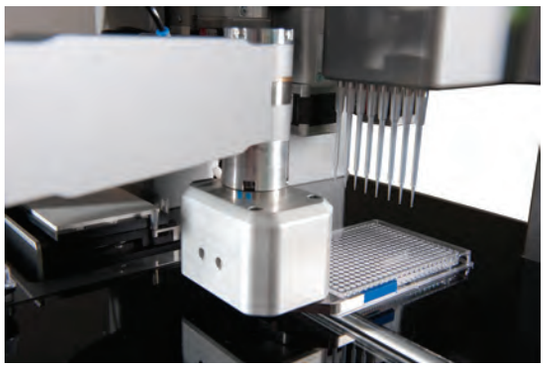
The GIN™ Delilah robot platform brings completely new level of efficiency, flexibility and quality to laboratory environment. All our solutions are based on the GIN™ Delilah robotic platform that gives our customers minimized cost of ownership, flexibility to adopt new processes and even introduce completely new applications.

We have adopted a modular design in our products and solutions that supports a 'build-as-you-go' approach, handling of different types of laboratory objects such as tubes, microplates (up to a 1536 format), conversions between different format microplates (e.g. 96-384-1536) and reservoirs.

The typical applications our customers use GIN solutions are sample, liquid and tube handling, high throughput screening (HTS), drug development, and conversations between microplate formats.

GIN solutions are based on standardized open interfaces that support integration to other 3rd party equipment, e.g. incubation stations and chambers, detectors and readers.

A special attention is paid to product design to support minimized daily cleaning which allows our customers to truly focus on the essential laboratory tasks and processes. This results in increased throughput, efficiency and process quality.



RT500Z
Delilah
250ZD

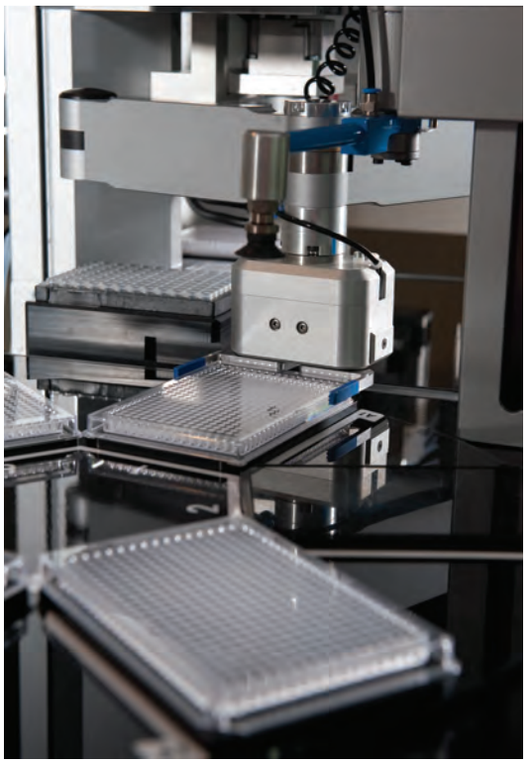
Efficient and Modular Automation Solutions for Diagnostic Device Manufacturing

GIN's production automation solutions increase productivity by introducing a multi-functional and highly accurate GIN™ Delilah robot platform with the world's smallest footprint.

This unique solution saves cost by reducing cleanroom space requirement. In terms of technology, the GIN™ Delilah is unrivalled. It has the most user-friendly set-up and is both silent and incredibly energy efficient. Furthermore, the manufacturing system is easy to use through its wireless tablet-based user interface. These features are revolutionary and unique in diagnostic device manufacturing.

Our products for diagnostic device manufacturing are easy to use, flexible, modular and can easily be reconfigured to meet new production needs. In addition, the GIN products are designed to meet the strict industrial standards. Maintenance, production quality control and fast delivery times bring our customers additional benefits.

And by the way, our solution is noiseless.



MedTech Manufacturing Automation

GIN serves MedTech companies with a small-sized, fully featured, high precision 5-axis GIN™ Kolibri CNC machine. Kolibri can be used from prototype and mould making to full scale production. The typical applications are medical devices, their components and medical and dental implant manufacturing.

GIN™ Kolibri - High Precision CNC Milling Machine

GIN™ Kolibri is a 5-axis high precision compact size CNC milling machine. It can mill practically all materials from titanium to plastics. Small in size GIN™ Kolibri is a full-scale milling machine for versatile CNC needs and efficient high-volume manufacturing.

Supporting Sustainable Development

Low energy consumption and minimum amount of required cutting fluids makes GIN™ Kolibri an environmentally friendly production unit, compared with many other milling machines. GIN™ Kolibri is especially designed for milling small-sized and complex parts. Due to a smaller size, the masses moved are a lot lower than with bigger machines, thus enabling significantly lower operational expenditures.

Compact in Size, Full-Scale in Features

GIN™ Kolibri is a compact-sized CNC-machine that offers all the features a full -scale milling machine does. High speed spindle, automatic tool changer and oil mist lubrication system offer possibilities to wide-ranging milling operations. GIN™ Kolibri control system utilises standard G-code.

Open system for industry-leading CAD/CAM softwares.

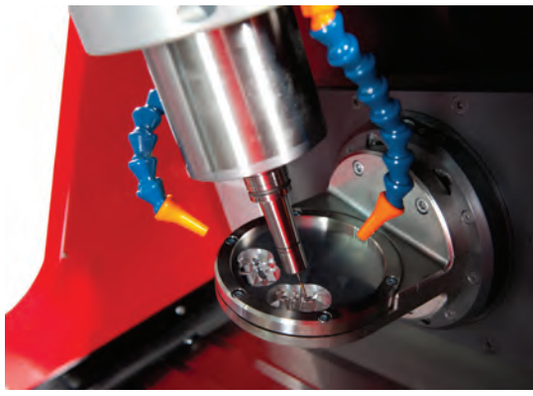
GIN™ Kolibri Supports Precision Machining

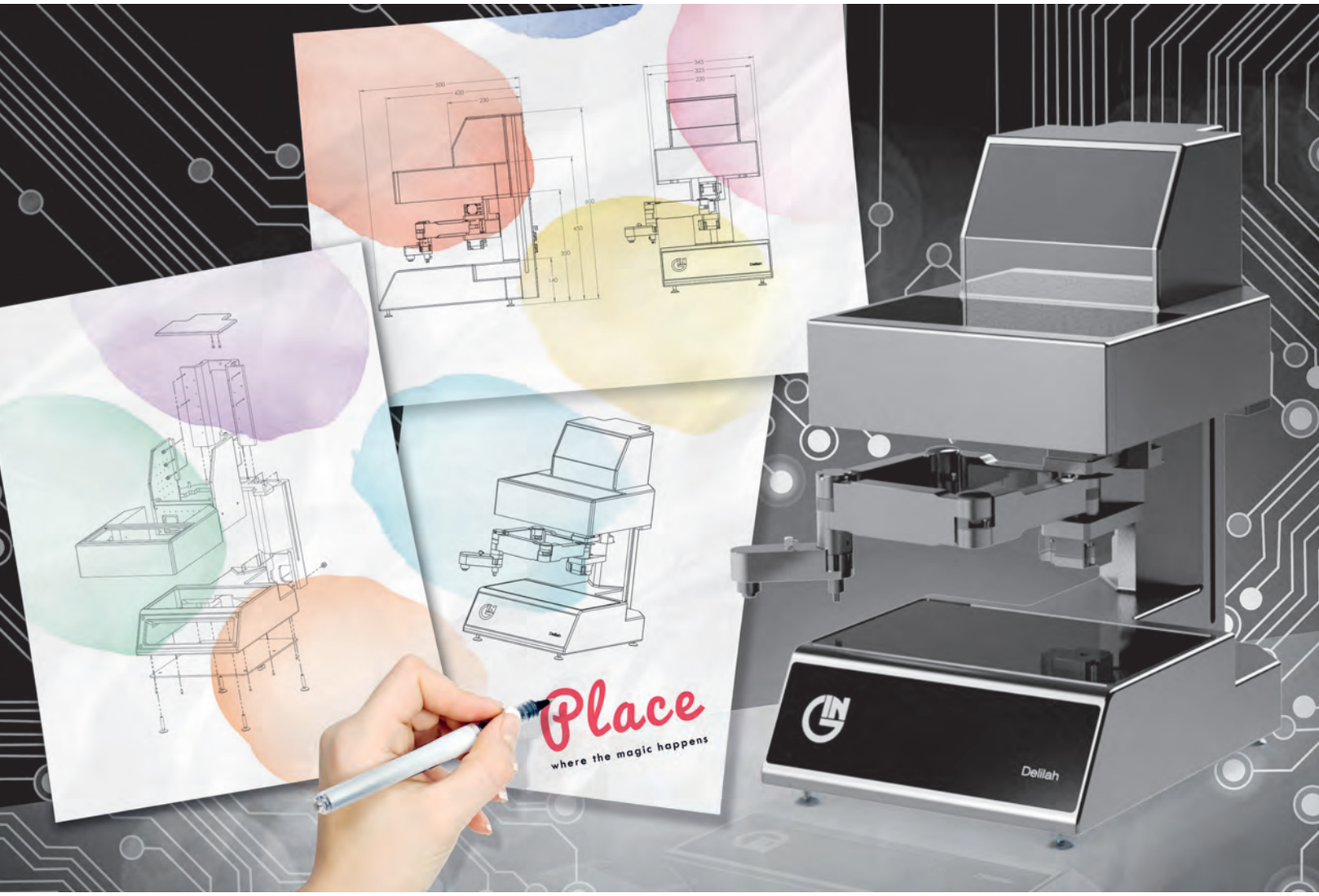
Accurate machining with good quality outcomes applies to GIN™ Kolibri. The guaranteed precision level within the working envelope is 5 µm.

Application Areas

GIN™ Kolibri serves MedTech and dental industries in all applications where high precision manufacturing is needed. Typical examples are dental bridges, crowns, retainers and implants. GIN™ Kolibri can mill all materials from soft plastics and ceramics to hard titanium and chrome-cobalt.

GIN™ Kolibri is the InnoFinland Prize 2011 winner.





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