

Available machine sizes of IKON

Model no.	X axes	Y Axes	Z axes	Spindle Titanium	Spindle Aluminium
IX 1505	500 mm	1,500 mm	200 mm	24000 rpm	42000 rpm
IX 1510	1,000 mm	1,500 mm	200 mm	24000 rpm	42000 rpm
IX 1515	1,500 mm	1,500 mm	200 mm	24000 rpm	42000 rpm
IX 1518	1,800 mm	1,500 mm	200 mm	24000 rpm	42000 rpm

Prepared for almost any application

Fine surface milling

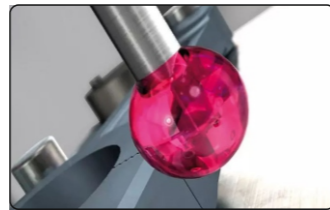
Offers several advantages over other machining processes, including:

- High surface finish quality
- Fine surface milling produces a smooth and precise surface finish, typically with a roughness value of less than 1 micron.

This makes it an ideal choice for applications where a high-quality surface finish is essential, such as in the production of optical components, medical implants, and precision parts.

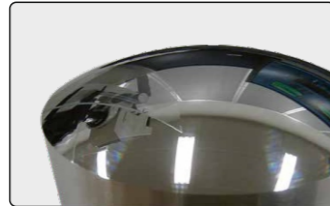
Touch Probe

Superior precision due to patented shark360 measuring mechanism
Extremely high probing speeds
Constant deflection forces in all probing directions
Ideally suited for highly productive production
Reliable measurements, even under the influence of coolant
No-wear, optoelectronic measuring mechanism
Proven and robust design
Enables unmanned manufacturing



Efficient material removal

Fine surface milling removes a thin layer of material from the surface of the workpiece, which reduces the amount of material that needs to be removed in subsequent operations. This can result in shorter cycle times and lower overall production costs.



Versatility

Fine surface milling can be performed on a wide range of materials, including metals, plastics, and composites. It can also be used to produce a variety of complex shapes and features, making it a versatile machining process.

Automation

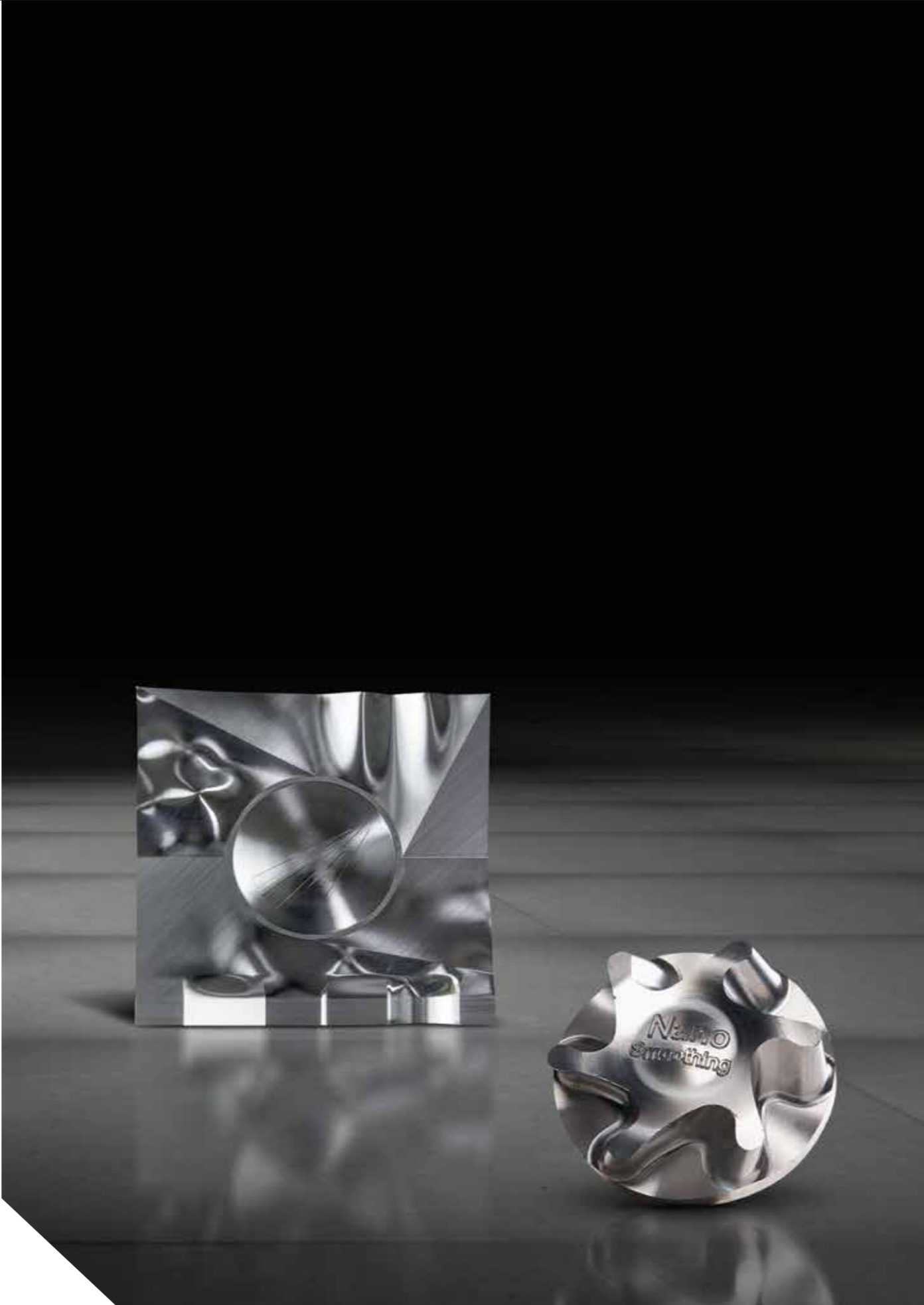
Fine surface milling can be easily automated using CNC machines, which can help to improve accuracy, consistency, and efficiency.

Environmental benefits

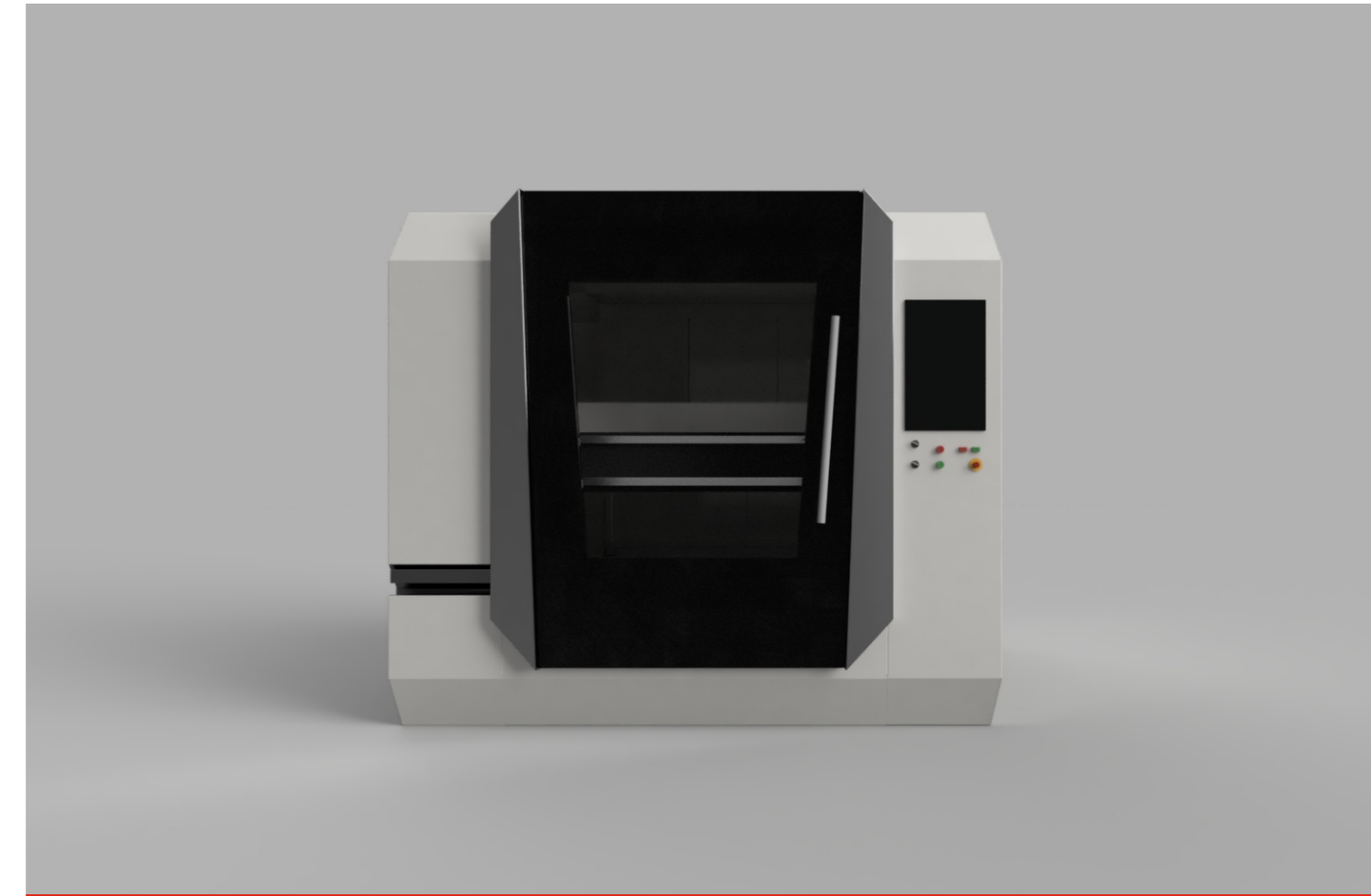
Compared to other machining processes, fine surface milling generates less waste material and consumes less energy, which can reduce environmental impacts and lower operating costs.



Overall, the high surface finish quality, efficiency, versatility, automation capabilities, and environmental benefits of fine surface milling make it an attractive option for many manufacturing applications.



High Speed Milling Machines IKON



Swiss Dynamics GmbH | Echterdinger Strasse 57 | DE-70794 Filderstadt | Deutschland

Tel: +49-152-56980234 | office@swiss-dynamics.com | www.swiss-dynamics.com

www.swiss-dynamics.com

IKON

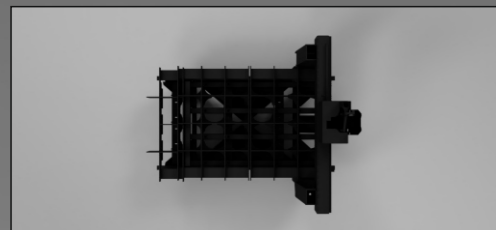
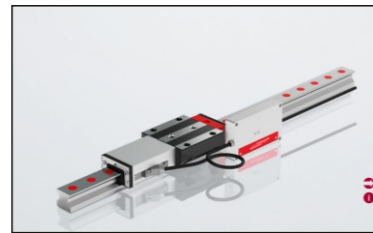
High Speed Milling Machines

High Speed Machining for aluminium, titanium and stainless steel

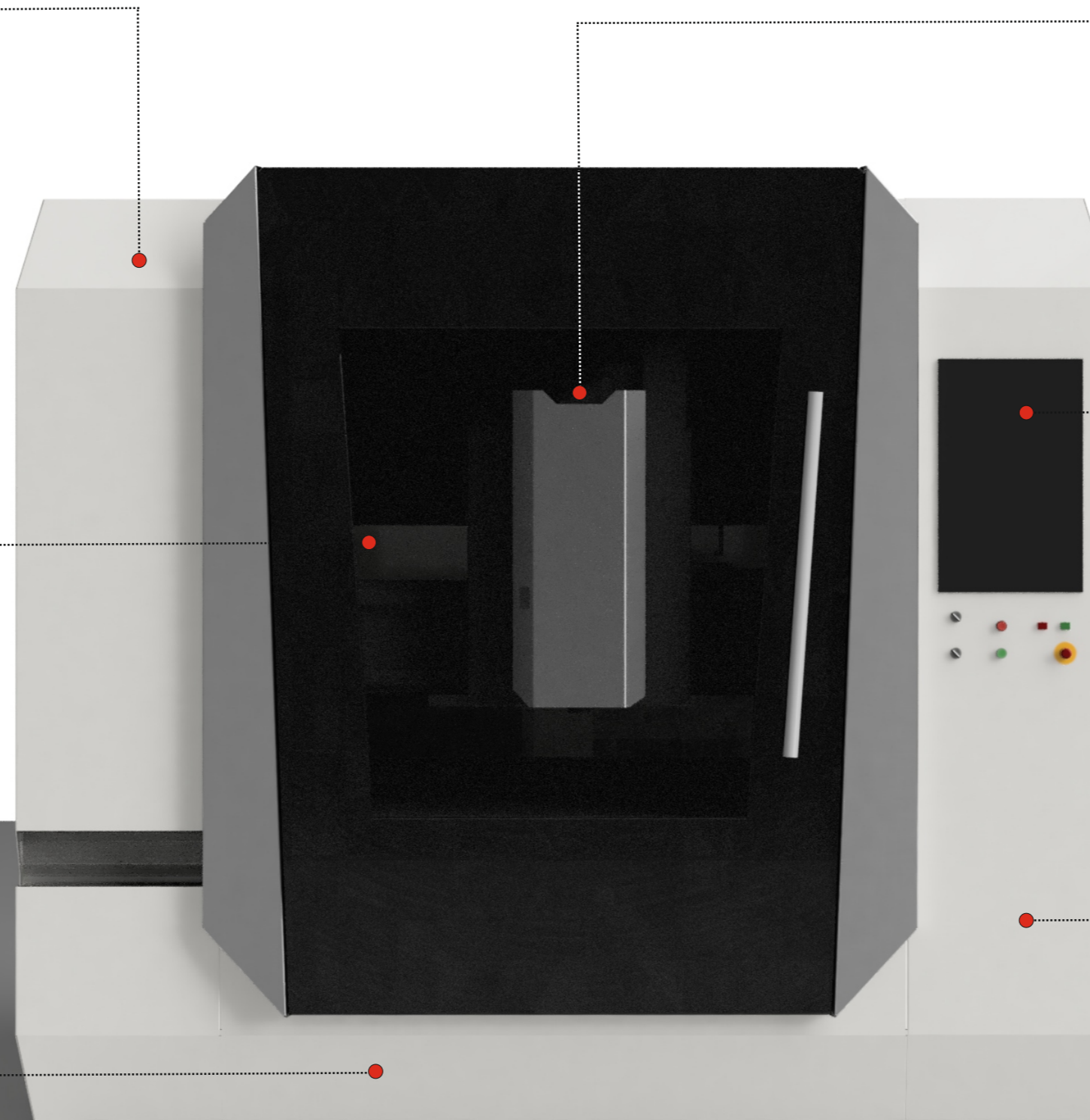
- Accuracy of positioning in all axes with linear scales.
- Thermal compensation ensures stable, precise and high quality production process
- Swiss Made transmission - precision with hardened surface
- Sophisticated design and large working area - combined in the IX series
- Improved ergonomics for easy handling and loading of heavy work pieces
- Huge table up to 1800 x 1500 mm for cutting of parts up to 800 kg
- Small foot print of 6.72 sqm for IX1518

Transmission

- Swiss Dynamics uses high precision profiled linear guideways rollers and planetary gearboxes to achieve excellent accuracy of the machining processes.
- DIRECT Measurement System installed

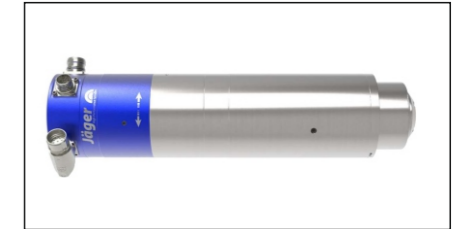


- The laminated profiles welded in argon gas offer benchmark for highest rigidity
- Improved structure concept for X axis offer large clearance of work table.
- Rigid Y-axis concept in whole range of travel
- FEM-optimized design & construction
- Precision in every component and detail



High Speed Spindle Motor

- Rotation speed up to 42.000 rpm
- Power 8 KW / S1
- Motor technology 3-phase asynchronous drive



NEW! CNC Controller made in Japan

- Designed to be extremely user-friendly, FANUC's new iHMI makes operating CNC machines easy and efficient.
- The new panel is flat, features ergonomically positioned keys, completely redesigned hardware and a brand new user interface.
- File display and note function for accessing operating instructions, drawings and texts
- User – friendly operator guidance screen with clear machine status display
- Increase transfer speed up to 120 m/min
- Increased accuracy with *nano metric technologies*



Vacuum System on all standard IKON machines

- High performance vacuum system based on Oerlikon SogeVac vacuum pump with total power of 300 cm³/h and a pressure up to 0.8 mBar Abs.
- Vacuum table divided in up to 16 area with full electronic control.
- Suitable for milling aluminium, stainless steel and titanium.
- Long oil life time and easy maintenance.
- Variants suitable for every application.

