IX 1505
IX 1510
IX 1515
IX 1518

Portal Milling Machines
IKON

www.intelligentlabs.ro

IX Series
Structure

Highest performance and productivity

Highlights

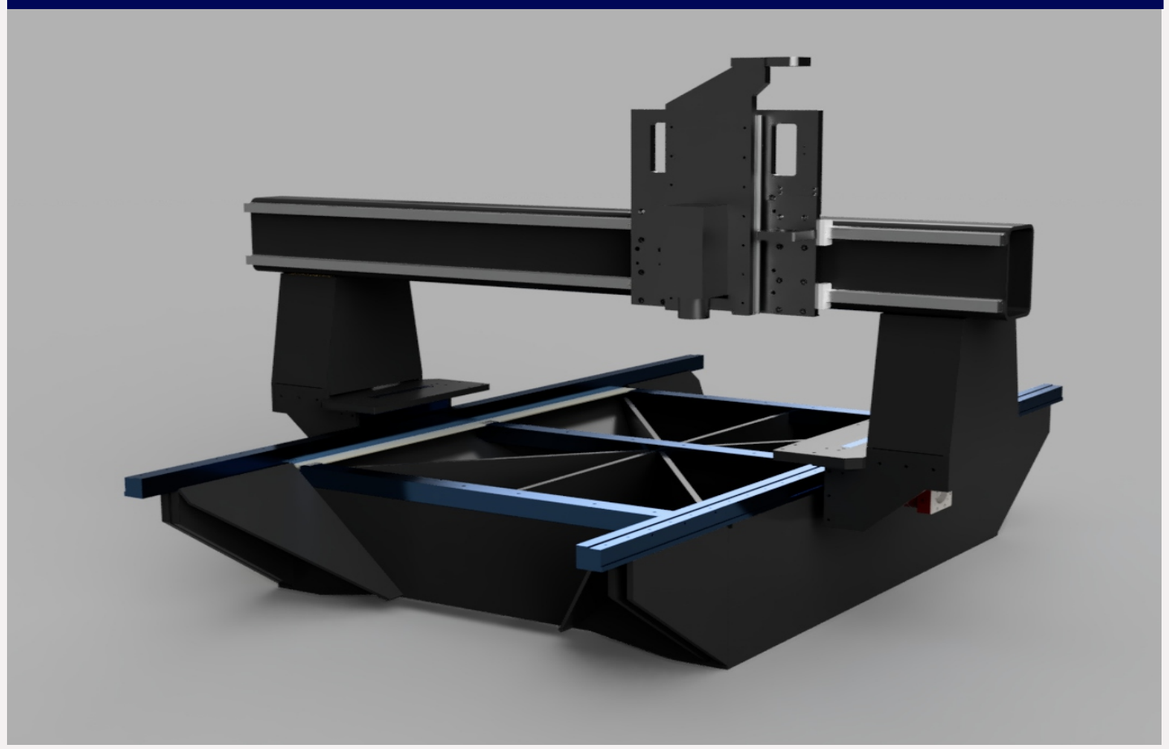
The laminated profiles welded in argon gas offer benchmark for highest rigidity

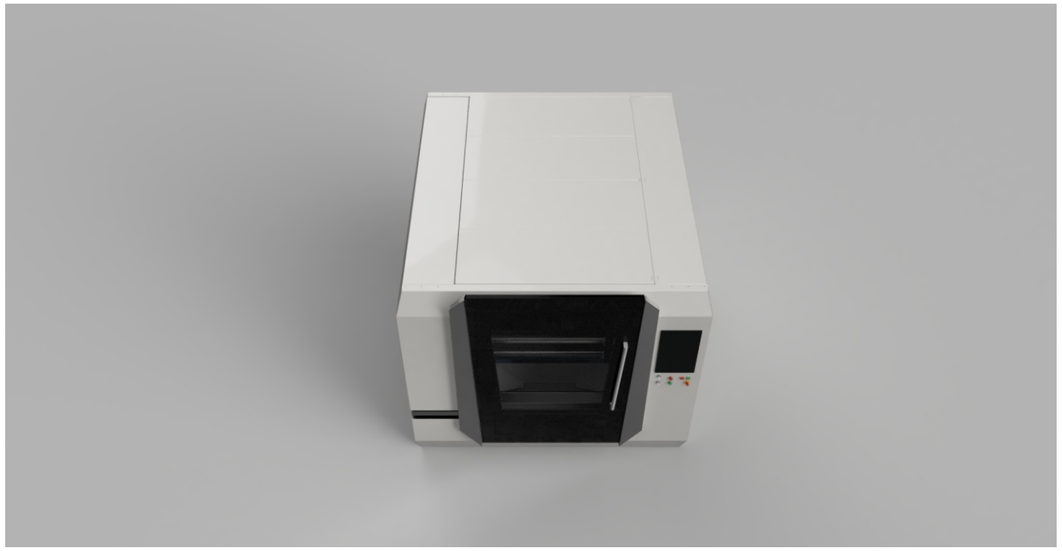
Improved structure concept for X axis offer large clearance of work table.

Rigid Y-axis concept in whole range of travel

FEM-optimized design & construction

Precision in every component and detail





High Speed Machining for aluminium, titanium and stainless steel

Accuracy of positioning in all axes of 10 µm without linear scales.

Thermal compensation ensures stable, precise and high quality production process

Schneeberger - 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 FX1518

IX Series
Standard Machine

Model: IX1510

Work Area

Max. X travels	**1000 mm**
Max. Y travels	**1500 mm**
Max. Z travels	**300 mm**

Table dimensions

Max. table load	**800 kg**
Lift length	**1,200 mm**
Table width	**1,600 mm**

Spindle cutting

Spindle Jäger **- made in Germany**	**40,000 rpm**
Tool type	**HSK E32**
Drive power rating	**5.5 kW (100%), 8Kw(60%)**

Precision

Repetability	**1 um**
Measurement System	**Direct measurement System**

Rapid traverse

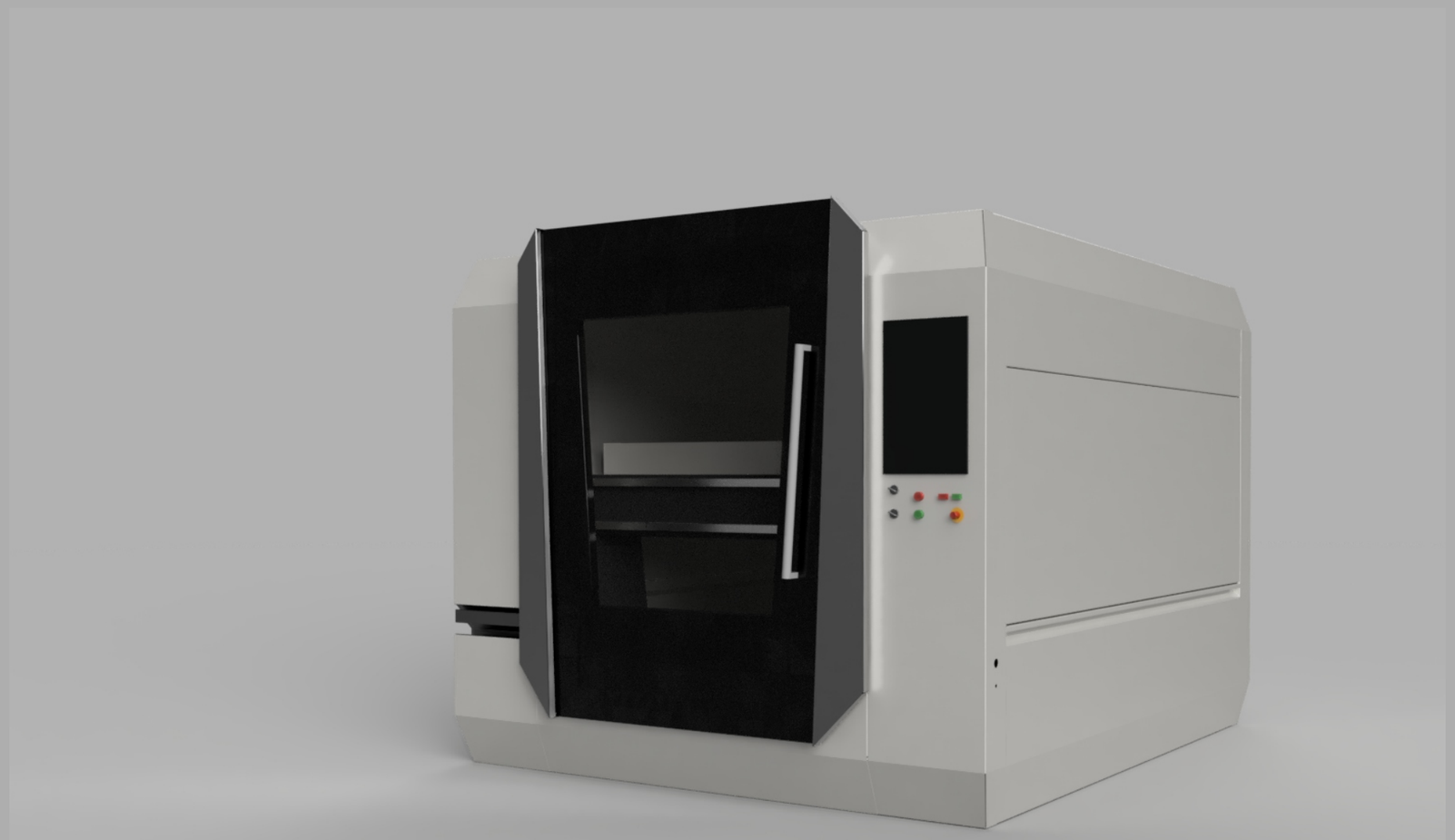
Max. X axis	**60 m/min**
Max. Y axis	**60 m/min**
Max. Z axis	**30 m/min**

Tool Magazine

Tool positions	**12 pcs.**

Touch Probe

Blum TC76 - touch part probe	0.4 um
Blum ZX Speed - touch tool probe	1 um



IX Series
Transmission and Controller

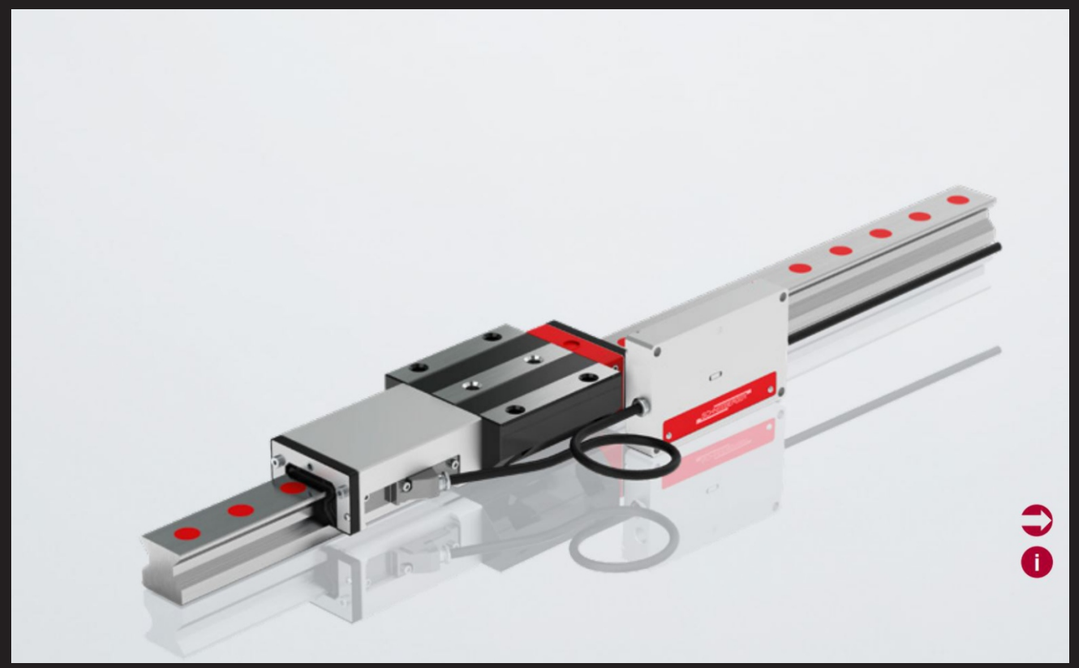
Transmission

SCHNEEBERGER uses its high precision profiled linear guideways rollers worldwide for a wide range of applications in mechanical engineering, from simple handling tasks to heavy machining processes.

DIRECT Measurment System installed

SWISS MADE

SCHNEEBERGER LINEAR TECHNOLOGY



Quality
assured by
hi-class brands ...

CNC Fanuc 0i Plus F

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.

Conversational automatic programming function with process menu

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*

Fanuc alpha - made in Japan

These motors provide excellent acceleration and are ideal for use in high-speed, high-precision machinery such as presses:

maximum speed up to 8,000 rpm
αi series high resolution encoder (32,000,000/rev)
protection class IP65

FANUC

IX Series
Spindle

Characteristics

Speed sensor Vector control
Housing Stainless steel
Housing diameter 100 mm
Cooling Liquid cooled

Ambient temperature + 10°C … + 45°C

Tool change Pneumatic taper change

Tool Holder HSK-E 32 + HSK-F 40

Bearings

Hybrid ball bearing (pcs) 4
Lifetime lubricated maintenance free

Motor

Motor technology 3-phase asynchronous drive
(no brushes or sensors)
Frequency 1.400 Hz
Motor poles (pairs) 2
Rated rotation speed 42.000 rpm
Acceleration/braking value
Per second 10 000 rpm

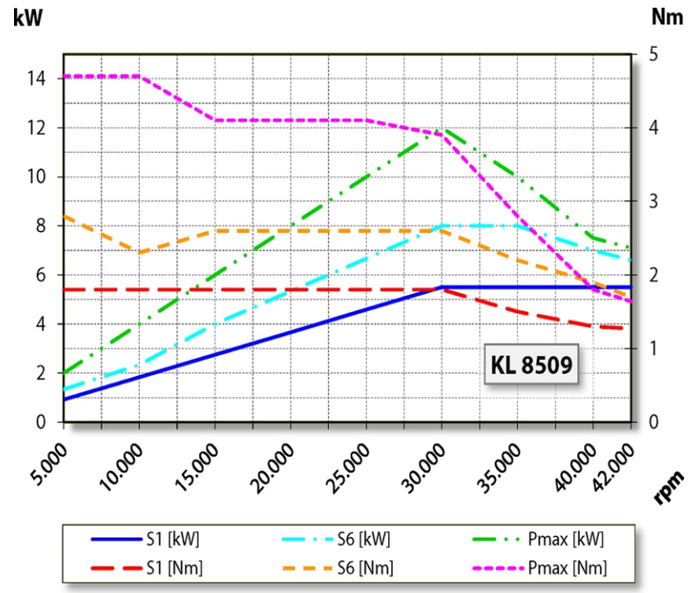
Jäger
High Performance Spindles

Pneumatic taper change

HF-Spindle for
high-speed milling, -grinding, -drilling, -engraving

Power values
Liquid cooled

	Pmax./5s	S6-60%	S1-100%
Rated power	12	8	5,5 [kW]
Torque	4,7	2,8	1,8 [Nm]
Voltage	380	380	380 [V]
Current	28	19	14,5 [A]



IX Series
Touch Probe

BLUM
NOVOTEST

Hardwired touch probe with revolutionary shark360 measuring mechanism

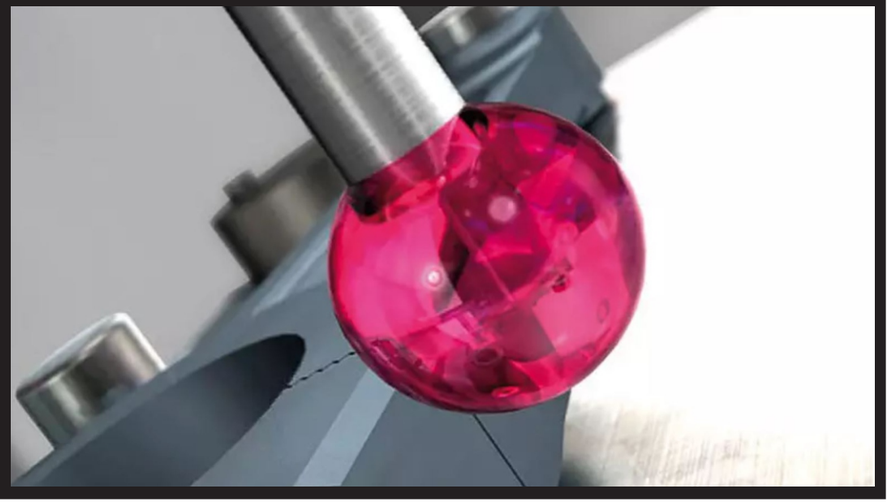
The compact touch probe TC76 is used for a fast and automatic measurement of tools and workpieces in milling centres. Due to a modified face gear and the optoelectronic signal generation, the built-in patented shark360 measuring mechanism sets a new standard with regards to precision and reliability.

– Pulling and torsional measurements with offset stylus
– Tool measurement using stylus with cube
– Excentric measurements
– Compact machines offering limited space
– Customised solutions are easily developed

Your benefit:

– 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

Repetability
0.4 um



Touch Probe TC76
ULTRA-COMPACT

IX Series
Order List

www.intelligentlabs.ro

Model range

IX 1505

Max. X travels	**500 mm**
Max. Y travels	**1,500 mm**

IX 1510

Max. X travels	**1,000 mm**
Max. Y travels	**1,500 mm**

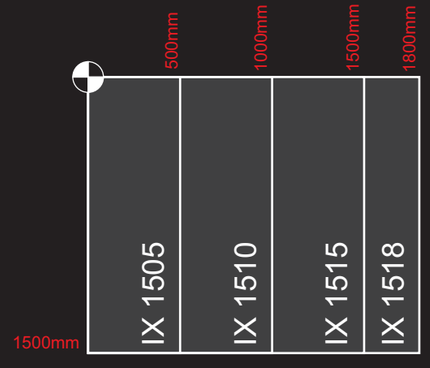
IX 1515

Max. X travels	**1,500 mm**
Max. Y travels	**1,500 mm**

IX 1518

Max. X travels	**1,800 mm**
Max. Y travels	**1,500 mm**

FANUC



IX Series
Optional Vacuum System

www.intelligentlabs.ro

Our Solution

High performance vacuum system based on Oerlikon SogeVac vacuum pump with total power of 300 cm/h and a pressure up to 0.8 mBar Abs.

Vacuum table divided in up to 16 area with full electronic control on controller.

Suitable for milling aluminum, stainless steel and titanium.

- Longest oil life time due to coolest pump on the market
- Different 3 phase motors available
- Variants suitable for every application
- Fastest cycle time on the market
- High process resistance thanks to the large oil volume
- Monitoring possibilities
- 15% lower power consumption vs. competition

Design Principle

SOGEVAC pumps are oil sealed rotary vane pumps. Oil injected into the pump chamber for sealing, lubrication and cooling of the pump is recycled from the pump's oil reservoir and filtered, if required, before it is injected.
The lubricant system is rated for continuous operation at high intake pressures (max. 1000 mbar abs.) so that the pumps may be used in a versatile manner in most rough vacuum applications (accessories are required for some pumps).
The oil carried with the process gas is roughly separated in the oil box before the discharged gas enters the integrated exhaust filters where the fine oil mist is trapped. The thus filtered oil is collected in the oil box and then supplied back to the pump.
The SOGEVAC vacuum pumps distinguish themselves by their very low power consumption, typically 15% lower compared to competitive pumps.

oerlikon

Leybold

Technical Data

SOGEVAC Rotary vane pump		SV 200		SV 300 B		SV 320 B	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed [1]	m^3/h	180.0	220.0	280.0	340.0	330.0	385.0
Pumping speed [1]	m^3/h	170.5	200.0	240.0	290.0	284.0	330.0
Ultimate total pressure							
without gas ballast [1]	mbar	≤ 0.08		≤ 0.08		≤ 0.08	
with gas ballast [1]	mbar	≤ 0.7		≤ 0.7		≤ 0.7	
Water vapor tolerance [1]	mbar	30	40	10	12	10	12
Oil filling	l	5.0 - 9.0		8.5 - 11.5		8.5 - 11.5	
Noise level	dB (A)	69	73	72	76	72	73
Motor power (1~ + 3~), max.	kW	4.5	4.6	5.5	6.3	7.5	7.5
Nominal speed	rpm	1450	1750	1500	1800	1500	1800
Weight (with oil filling)	kg	150	160	223	225	211	
Connections, intake and exhaust side		G or NPT 2"					
Dimensions (L x W x H)	mm	1070 x 535 x 425		1115 x 555 x 450		1120 x 565 x 450	

THE FACTORY AUTOMATION COMPANY

FANUC

NEW FANUC PANEL *i*Pro with wide screen LCD

Designed for ultimate usability

The new FANUC PANEL H *i*Pro with widescreen LCD supports both portrait and landscape orientation. Hardware keyboard and control panel can be eliminated, reducing the number of parts. The FANUC PANEL *i*H Pro is equipped with a precise capacitive touch screen, which provides excellent usability and allows smartphone-like intuitive operation.

Discover more about FANUC CNC control series
fanuc.co/cnc-control-series

IX Series

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