

SILEX

Micro-Machining. Smart by design. Precise by nature.

Now operated by

FANUC

Eco-friendly

Low energy consumption < 500 W
Carbon footprint reduction > 95%

Compact

Weight < 500 kg
Footprint 0.56 m²

High-Speed Machining

60,000 rpm

High Accuracy

Precision $\pm 1 \mu\text{m}$
Repeatability $\pm 2 \mu\text{m}$
Design to minimize vibrations

Autonomous

Automation solutions



► DISRUPTIVE TECHNOLOGY FOR TOMORROW'S INDUSTRY

PRECISION & RELIABILITY

±1 µm Accuracy

Sub-micron precision for flawless quality

60,000 rpm Spindle

High-speed cutting for premium finishes

FANUC Control

Industry-standard stability and support

COST REDUCTION & ROI

Just 500W @ 230V

> 95% less energy vs. traditional CNCs

0.56 m² Footprint

Smallest 5-axis CNC in the market

Autonomy & Automation

60-tool magazine, pallet & part loading

Easy Machine Transport

Built-in retractable casters

INNOVATION & SUSTAINABILITY

Next-Gen CNC Platform

Modular, compact, future-ready

Agile Production

Quick setup, reconfigurable workflows

ESG Aligned

Low carbon footprint, minimal energy use

FANUC

CONTROL SYSTEM

INDUSTRY REFERENCE. UNIVERSAL COMPATIBILITY.

- **Global standard:** used on over 60% of industrial CNCs
- **Instant familiarity:** touchscreen + keyboard, intuitive for all operators
- **Direct compatibility:** accepts existing CNC programs, no reprogramming needed
- **Extreme reliability:** <1 failure every 30 years (MTBF)
- **Easymaintenance:** smart diagnostics, available components, simplified interventions
- **25-year international support:** pièces et assistance partout dans le monde.
- **Performance & safety:** advanced trajectory smoothing (High Speed Smooth TCP+), FANUC cycles, DualCheck Safety Cat. 3

SILEX becomes a universal, robust, and instantly operational micro-machine.

► FEATURES

Cutting fluid	70 l (controlled)
Chip tray	20 l
Control system	FANUC 31i-B5 Plus

► POWER

Input voltage	230 V, single-phase
Air pressure	Min. 6 bars
Spindle power	450 (510) W
Torque	7.1 Ncm

► PERFORMANCE SPECS

Spindle speed	60'000 rpm
Spindle speed (X,Y,Z)	25 m/s ²
Vitesse max des axes (X,Y,Z)	30 m/min
Axis travel (X,Y,Z)	82 / 63 / 63 mm
Axis B travel	+/-100°
Axis C travel	∞
Axis C peak torque	3.9 Nm
Axis C speed	400 (3500) rpm
Precision	+/-1 µm
Repeatability	+/-2 µm
Tool spindle interface	HSK-EZ15
Design to minimize vibrations	

► SIZE

Footprint	750 x 750 mm
(without options)	
Height	1980 mm
Tool length	max 50 mm
Weight	<500 kg
Tool magazine capacity	60
Tool types	Form A - mechanically fixed Form E mechanically unfixed)
Workpiece holding	pallets, clamps, special fixtures



reddot winner 2024

