



ENGINEERED FOR PERFORMANCE

Over time, the Faro F35 has earned its place as one of the most appreciated and versatile CNC machines in its class — especially in the world of fine jewelry. More than just a compact 7-axis unit, it's a reliable partner for those who demand precision, adaptability, and consistent results across a wide range of applications.

Designed to handle complex engraving, diamond-cutting, drilling, and stone pre-setting, the F35 works effortlessly on rings, bangles, and even hollow or irregular shapes — including oval and asymmetric designs. Its synchronized multi-axis motion simplifies even the most intricate tasks, reducing repositioning, saving time, and ensuring perfect repeatability.

Whether you're crafting a single bespoke piece or scaling up for high-volume production, the F35 guarantees accuracy without compromise. Every cut, every setting, every movement reflects control and craftsmanship, even on the most challenging geometries and materials. What truly sets the F35 apart is its seamless integration with our proprietary Pigreco CAD/CAM software and dedicated firmware. Unlike generic systems that rely on third-party tools, this unified platform simplifies programming, speeds up learning, and unlocks advanced machining strategies with ease.

The F35 gives you more than performance — it gives you control, creativity, and confidence. Compact and powerful, it's the perfect choice for jewelers who want to go further, with less effort and total precision, in every single detail.

ADVANCED TOOLS & FUNCTIONS

DIAMOND HEAD

Expands the F35's creative capabilities by producing fine textures and decorative effects on curved and flat surfaces. Features an automatic tool changer with three diamond tools, all selectable and customizable via software. Fully integrated with the Pigreco CAD/CAM system, allowing synchronized motions and intricate patterns with maximum precision and control.

PROBE FOR IRREGULAR SHAPES

Advanced system for detecting the surface of irregular rings and bangles using a high-precision mechanical probe. Acquires the geometry with customizable accuracy and applies the toolpath accordingly, adjusting Z-axis depths for perfect surface adaptation and consistent results.

TOOL MAGAZINE

9- or 13-position linear magazine with automatic tool change and safety cover. Compatible with Jäger ISO 12 tapers, supplied with original holders and collets for tools up to Ø 6 mm. Includes built-in tool presetting and fast length detection and integrity check.

HAMMERING TOOL

Pneumatic device designed to enrich wedding bands and bangles with decorative textures, using a small diamond tool that delivers high-speed micro-punching effects.

STRUCTURE

Natural granite frame to eliminate thermal expansion, vibrations, and structural deformation. Axis motion is managed through ISO-7 precision linear guides and preloaded ball screws, driven by digital brushless motors equipped with encoders.

The structure has been designed and dimensioned using advanced simulation software and resonance analysis tools, combined with empirical measurements through dedicated instrumentation, to ensure maximum structural stability—directly translating into superior cutting quality.

TECHNICAL SPECIFICATIONS

- Axes Travel (X/Y/Z): 400 × 200 × 150 mm
- A Rotation: -110° to +120° - B Rotation: Endless
- Resolution XY: 1 µm - Resolution Z: 0.5 µm
- Resolution A: 0.001° - Resolution B: 0.005°
- Max Feed Rate XY: 30 m/min - Max Feed Rate Z: 15 m/minMax
- Feed Rate A: 66 RPMMax - Feed Rate B: 66 / 500 RPM
- Spindle Power: 1.2 kW (liquid-cooled HF)
- Max Spindle Speed: 60,000 RPMMax
- Magazine: 9- or 12-position linear with automatic tool change
- Numeric Control: Faro CN FDC, 9-axis, 32-bit DSP
- Remote Control: EC-certified with emergency stop
- Interface: USB 2.0 or higher
- OS Required: Windows 10 or higher (PC not included)
- File Format: ISO G-code
- Power Supply: 230 V single-phase
- Max Consumption: 3 kW
- Circuit Breaker: 300 mA required
- Air Pressure: 6 bar constant
- Compressor: Min. 300 NI/min with air filters – NOT included
- Temperature Control: Automatic fan activation >45°CMin.
- Working Space: 150 × 200 × 300 cm
- Machine Weight: 400 kg
- PC Required: Windows 10 or higher, 2 USB ports, internet connection - NOT included

Specifications are subject to change without notice.

The manufacturer reserves the right to modify features and technical data at any time.



DIMENSIONS

