Intro

The new utmost balanced, high-frequency spindle of the HF router system provides for a much **smoother finishing** of rigid substrates and a **longer lifetime of the bits**.

The higher rotation speed and more output power both generate **faster processing speeds**.

Thanks to the pneumatic collet on the HF router, no wrenches are needed and **bits can be replaced easily**.

- Youtube Video: https://www.youtube.com/watch?v=CF6hiI0I0gk&t=4s

Milling motor

- The spindle of the Milling motor is *utmost balanced*. This means that the spindle rotates with minimum play. When using small bits (<=4mm) or balanced bits, the vibrations are minimal. This results in a **smoother finishing,** which is most obvious when processing acrylics.
- The balanced spindle also generates *higher rotation speeds*. This also allows faster **processing speeds** and/or **smoother finishing**.
- With up to 1 kW output power the HF milling motor has significant more power than the Kress milling motor, which allows faster **processing speeds.**
- The HF milling motor is powered by the *Brushless* DC motor. The unit is *continuously kept under low air pressure,* which generates a continuous airflow through the gaps. This avoids dust from entering and damaging the bearings. The result is a **long-lasting** milling motor.

	HF Milling Motor	Kress
Motor system	Brushless DC motor	DC motor
Speed range	5,000 - 50,000 / 60,000* rpm	5,000 - 25,000 rpm
Output power	max. 1,050 W	Max. 650 W

*short term

Pneumatic Collet

- The HF Router system is equipped with a 6 mm collet. A new range of multi purpose bits are available (see further).
- The collet is clamping the bit pneumatically. No wrenches are needed to replace the bit. While in change tool/bit mode, a compressed air switch activates and deactivates the clamping of the bit. This can be done while the milling motor remains in the module, which results in fast and easy bit changes.
- In combination with the ADC, changing bits becomes a child's play.

Note: the HR routing module has two compressed air connections. One under low pressure to avoid dust entering the system. And a second one under high pressure to activate the clamp.