

General Info

The pneumatic oscillating tool (POT), powered by compressed air, moves the knife up and down over a stroke of 8mm* with a frequency of maximum 150Hz*. Material up to 25mm thick can be cut. The robust construction of the tool makes it suitable to cut thick and/or tough boards like **Honeycomb board, corrugated cardboard and foam boards**. Also some **soft foams and rubbers** can be cut with adjusted speeds.

Compatibility

The POT fits into the Tangential module and is quickly connected with two pneumatic connectors to the central unit. The tool can be placed in any of the three slots but only one POT can be installed at once.



The tool is compatible with existing installations. Free updates of the table firmware, Axis Control and Summaflex may be required.

Initial installation requires installation and change of pneumatic components by a trained technician.

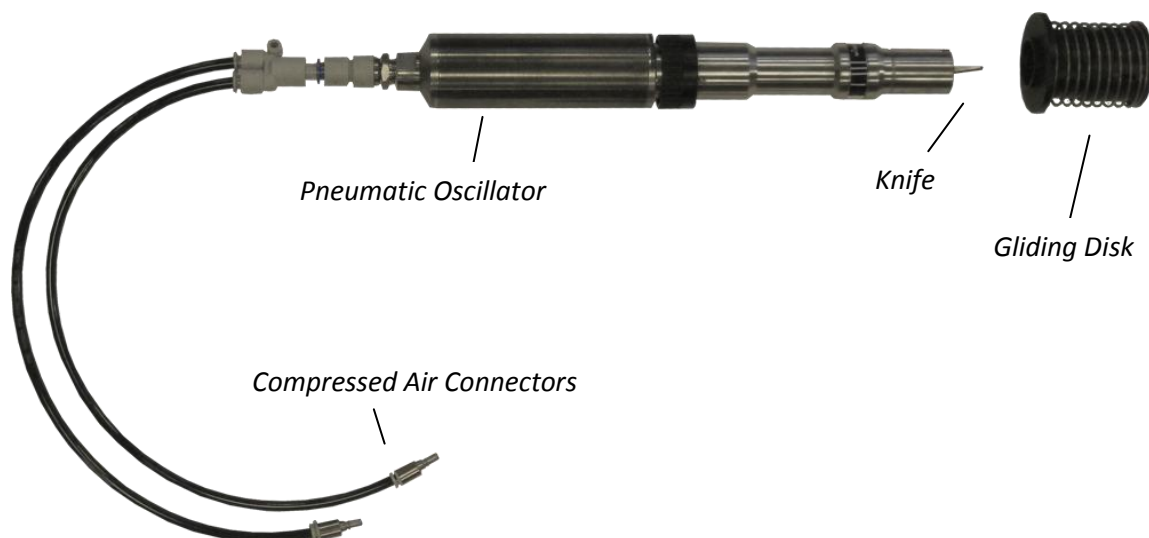
The tool requires compressed air. Summa doesn't offer air-compressors. Recommendations can be found below.

Parts:

500-9350: Pneumatic Oscillating Tool

Includes:

- Pneumatic Oscillator with Gliding disk
- 1 knife (20 x 0.65mm) with hex key
[500-9830 = set of 3 knives] – only 1 included
- Pneumatic kit including Pneumatic Oil



Main Specifications

- Stroke: 8mm*
- Frequency: 150Hz*
- **Compressed air requirements:** 6bar & 78l/min
 - It is advised that the compressor has 4-5 times the airflow capacity: +/- 360l/min
- Sound level: +/-84dB
 - Ear protection for the operator may be advisable/obliged when used intensively. Please check local law.

** The Stroke and Frequency may drop depending on the load on the tool.*

Knives



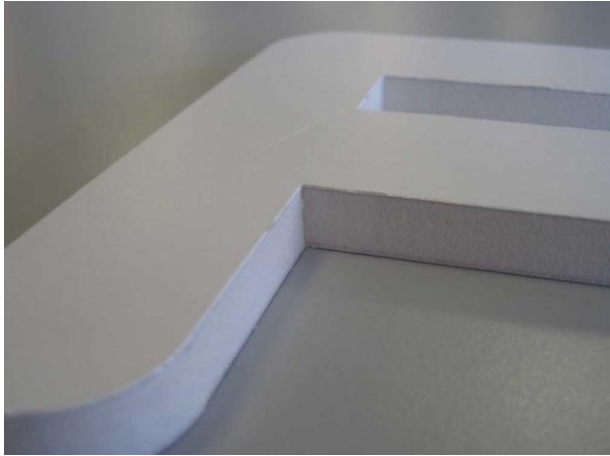
Every knife set is delivered with a setscrew and a hex screwdriver.

POT Knife Flat Point L20 T0.63 Max material thickness: 18mm	500-9830 (Set of 3)	
POT Knife Flat Point L27 T0.63 Max material thickness: 25mm	500-9831 (Set of 3)	
POT Knife Flat Point L20 T1.5 Max material thickness: 18mm	500-9832 (Set of 3)	
POT Knife Flat Point L27 T0.63 Max material thickness: 25mm	500-9833 (Set of 3)	

**images are not representative*

Applications - Materials

The POT is suitable to cut **foam boards** (with paper based cover sheets), **corrugated cardboard** as well as **inverted corrugated boards** (honeycomb /Rigid Paper Composite Boards). The mechanical material thickness limitation is 25 mm. The actual media thickness depends on the material type.



foamboard



honeycombboard

In general the material may be thicker when cutting only straight lines (e.g. trimming). Depending of the knife shape, material consistency and material thickness, the minimum radius for curves varies. Cutting speed depends on the material and is limited to 300mm/sec. Typical speed is +/- 200mm/sec

Also some **soft foams and rubbers** can be cut with adjusted speeds. The toothed blade is targeted for this application (500-9833).

With the thicker blade (500-9832) also some **corrugated plastics** can be cut.

The Summa team is continuously working on expanding the material range and will keep you informed.

Maintenance

The POT is greased by an oil mister placed on the pneumatic circuit. The oil level in the mister may not be below the minimum level and needs to be filled up on time. It is expected that a completely filled mister is sufficient for a couple of months, depending on the intensity of use.

Service Maintenance

Pneumatic and moving parts wear out. Therefore the tool will need to be serviced by a trained technician. Summa will offer a service maintenance kit. However at the time of release this kit is not defined. Beta testing has indicated that the tool is robust and wear is minimal. Therefore Summa needs more experience before defining the required maintenance. Meanwhile Summa recommends to send the tool back to the factory as soon as the tool is malfunctioning. During the technical trainings in Gistel more information will be provided.

Warranty

The warranty to F-series partners on the POT system is 2 years on parts excluding parts included in the service maintenance kit. The sound characteristics may vary from tool to tool, during the lifespan of the tool, and even during operation. The sound difference is no base for warranty claims as long as the POT is working correctly. Knives and protection mats are also excluded from the general

warranty. These items fall under the consumable warranty; If you discover physical defects on receipt, Summa will replace the defective item without charge, provided you return the tool to be replaced within 30 days after purchase date.