

General Info

The electronic oscillating tool (EOT) is driven by an electric motor producing up to 12.000 rpm and has a stroke of 1mm. At launch, knives are available to cut material up to a thickness of 24mm. This makes the unit suitable to cut foam boards and corrugated cardboard. Of course the oscillating tool can be used for thinner materials as well (e.g.: solid cardboard, textiles ...). Depending of the knife shape, material consistency and material thickness, the maximum cutting speed varies, as well as the minimum radius for curves.



Part number: [500-9320]

For service reasons (see further) it is recommend to

have two (2) tools: 50% discount is applicable on second tool if ordered together and used on the same table (serial numbers are linked).

Compatibility

The oscillating tool fits into the Tangential module and is quickly connected with a cable to the central unit.

The tool is compatible with existing installations. Of course Firmware needs to be updated as well as Axis Control. In SummaFlex, the Oscillating tool needs to be activated.

Main Specifications

- Powered by Electronic DC Motor
- Frequency: up to 12.000 RPM or 200Hz. (standard setting : 10.000 RPM)
- Stroke: 1mm (+-0.5mm)
- Knife thickness: 0.64 mm

<u>Knives</u>

Currently, Summa offers 7 knives that fit into the EOT. First, we have different lengths for different material thicknesses. It is recommended to use a blade length adapted to the material thickness. The shorter the blade the better the results are. The shorter knives types have different shapes. The thinner the knife shape the smaller curves can be cut. Knives with more 'body' can handle more cutting force to cut more rigid material. The knife with a small piece of horizontal edge [500-9813] is most suitable for fibrous materials (banner, canvas, textiles).





Every knife for the oscillating tool is delivered with a setscrew and a hex screwdriver. It is recommended to replace the setscrew if the old

one has been damaged.

Single edge 65° L25 up to 5 mm	500-9800	
Single edge 0°- 75° L25 up to 5 (6) mm	500-9813	
Single edge 65°-80° L25 up to 5 (11) mm	500-9810	
Single edge 65°-85° L25 up to 5 (11) mm	500-9811	
Single edge 65°-85° L28 up to 8 (14) mm	500-9812	
Single edge 45°-85° L33 up to 13 (19) mm	500-9815	
Single edge 45°-86° L38 up to 18 (24) mm	500-9814	

PS: the 500-9800 is the same knife as the 500-9801 but it includes a spare setscrew and a hex key to mount in the EOT.

PS: by removing the gliding disk, thicker material can be cut with a shorter knife. However, removing the gliding disk is not recommended. The main task of the gliding disk is to keep the material down. When the gliding disk is removed, the material may lift and crashes or knife failures may occur.

PS: when removing the gliding disk, or when using long knives, take care about safety instructions mentioned in the manual and be aware that the knife is vulnerable during loading and unloading of the material.

Applications - Materials

The EOT suitable to cut **foam boards** (with paper based cover sheets), **corrugated cardboard** as well as **honeycomb boards** (Rigid Paper Composite Boards) up to 10mm. Depending on the material the maximum thickness is limited. The mechanical material thickness limitation is 24 mm. 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 minimum radius for curves varies. Of course the oscillating tool can be used for thinner materials as well, e.g.: solid cardboard (chipboard), textiles, thin acrylic ... The tool is not advised for more rigid material like Expanded PVC board.

Cutting speed depends on the material and is limited to 300mm/sec. Typical speed is +/- 100mm/sec

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



Warranty

Wear of rotating and axial moving parts is unavoidable and depends heavily on the type of material, knife shape and general usage. The tool is designed so that some parts can be serviced and/or replaced by a trained operator other parts in a Summa service centre. Therefore the Electronic Oscillating Tool is categorized under accessories and consumables. The tool does not fall under the 2 year warranty on the table. If you discover physical defects on receipt, Summa will replace the defective tool at no charge, provided you return the tool to be replaced within 30 days after purchase date.

Maintenance

Apart of the obvious maintenance (cleaning gliding disk, keeping the tool clean), the 'knife guide' [500-0663] at the bottom of the tool is wearing out. And will need to be replaced on a regular basis, heavily depended on the type of material, knife shape and general usage. This is an easy intervention that can be done by the operator (see operators manual).



Service Maintenance

Rotating and axial moving parts are wearing out. Therefore the tool will need to be serviced in a Summa service centre. As a general guideline we expect service maintenance every 1000 hours however this is heavily depended on the type of material, knife shape and general usage. The service maintenance takes maximum five working days (excluding Belgium Bank holidays, and official Summa holidays) excluding transport time. Therefore Summa recommends having two (2) Electronic oscillating tools to ensure the customers production. To encourage this, Summa offers a second tool for half the price (only valid if the tools are ordered at the same moment and used on the same unit).

Standard service maintenance of the oscillating tool has a fixed price.

Service maintenance, including motor replacement, will cost more. Contact Summa service department for exact pricing. These service maintenances include replacement and testing of a limited amount of parts excluding defective parts due to abuse or aging of the tool. The fixed service maintenances prices exclude transport, VAT or other taxes. Follow the instructions of our RMA procedure to get the tool serviced.