



SONIMAT

Empowering Technologies

ULTRASONIC CUTTING & SURFACING EFFECTOR NOMEX / ALUMINIUM HONEYCOMB



HOW DOES IT WORK ?

The ultrasonic generator sends an ultrasonic signal to the cutting/surfacing effector. The generator automatically adjust itself to the proper frequency of the tool.

The effector and the generator are connected with a coaxial cable (available in different lengths).

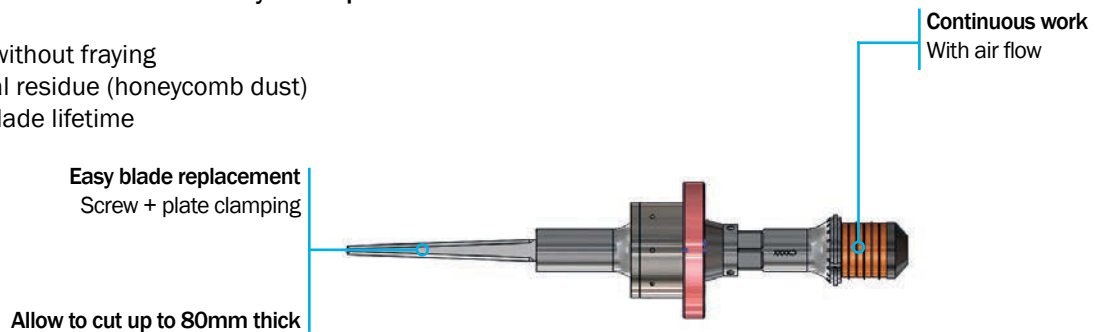
Cutting tools are mounted on the effector extremity. The ultrasonic vibration is not transmitted to the machine spindle.

- Working frequency = 20KHz
- Maximum power = 1000W
- Power supply = 230V - 50Hz 16A

CUTTING KNIFE

Allow to cut nomex and aluminum honeycomb up to 80mm thick.

- Clean cut without fraying
- No material residue (honeycomb dust)
- Increase blade lifetime



ROTARY DISC

For nomex and aluminum honeycomb surfacing

- Clean cut without fraying
- No material residue (honeycomb dust)
- Possibility of working in open environment without dust collection system.



EFFECTOR

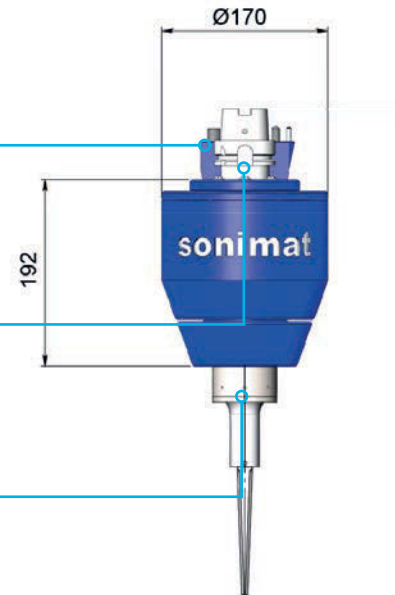
Suitable with most CNC machines.

Manual or Automated connection option
Customization on request

Interchangeable tool holding systems

Electric and pneumatic
rotating union

Rotation speed
1000rpm max



Available options

Blades

30, 40, 50 and 80mm



Discs

Ø 15, 18,3, 50 and 63mm



Tool holding systems



Connection options

Manual connection

Ultrasonic and pneumatic
inputs are manually
connected to the effector



Automated connection

Plug & Play connection

