

# VESCONITE

## GUIDELINES FOR PLATE MACHINING

**Vesconite and Vesconite Hilube are easily machined to fine tolerances on standard metal working equipment. Here are some general guidelines that will help you achieve good results when machining Vesconite plates:**

- To machine Vesconite and Vesconite Hilube plates on a milling machine, clamp or hold down with a vacuum bed.
- Preferably take cuts of less than 2 mm.
- Use cutting tips designed for aluminium and non-ferrous metals for better results.
- Use a rose cutter with round button tip inserts for large fly cuts.
- Turn the plate over after each cut when machining down the thickness so that equal amounts of material are machined off the top- and under-side of the plate.
- Test spindle speeds and feed rates on the outer surface of the plate to check you achieve the desired finish.
- Too high spindle speeds and too low cutting feeds can result in burning the material surface.
- To machine curvatures, use a ball nose mill. The overstep of each cut should be small. The size of the overstep depends on the size of the cutting tools used and the desired surface finish.
- Do not use too sharp a drill bit when drilling holes, as this may break the Vesconite when drilling through.

---

### HOW CAN WE HELP YOU?

[www.vesconite.com](http://www.vesconite.com)  
[vesconite@vesconite.com](mailto:vesconite@vesconite.com)

<b>USA</b>	+1 713 574 7255
<b>UK</b>	+44 20 3239 9044
<b>EU</b>	+31 303 200 200
<b>Argentina</b>	+54 9 1167247641
<b>Australia</b>	+61 3 9796 4098
<b>New Zealand</b>	+64 20 4011 3659
<b>Singapore</b>	+65 6481 8728
<b>Worldwide</b>	+27 11 616 1111

77 Mimetes Street  
Denver  
Johannesburg  
2094  
South Africa

