

SKIP&FLOAT

CRASH SENSING FOOT

Maintain the optimum cutting head standoff

Benefits

- ☑ Allows machine to accept warped material
- ☑ Ensures efficient cutting due to constant optimal standoff
- ☑ Reduces risk of crashing on warped materials
- ☑ Clamping reduced with no need to pull the material flat

Safely maintain the correct distance between nozzle and material

The Skip&Float foot is used to enable the optional 'Floating Z-axis' to maintain the correct standoff between the end of the nozzle and the material. It will also automatically raise the cutting head well above the material when rapid traversing between cuts.



1 OPTIMAL STANDOFF

Sheet materials are often subject to warping. The Skip and Float™ feature will ensure the cutting head is maintained at an optimal standoff height above the material being cut (via the float mechanism).

Without this feature, warped material can cause the cutting head to get too close to or even touch the material being cut, creating a blockage of the cutting head. If the standoff gets too large, the cut quality will be reduced, or may not cut through the material.

2 RAPID TRAVERSING

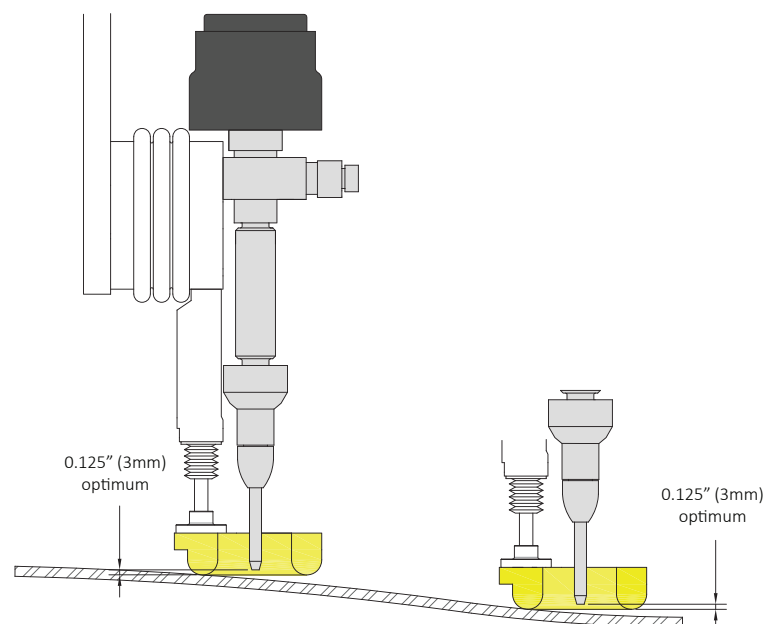
With the Z Step function, it automatically raises the cutting head well above the material when rapid traversing between cuts.

This ensures that the cutting head cannot catch on a cut part which may have tilted and risen above the material. This prevents both the focusing tube and the work piece from being broken or damaged.

How it works

The Z Float is normally used in conjunction with Z Step function. This is so the Z-axis automatically raises the cutting head to the programmed standoff distance above the material when rapid traversing between cuts. The floating foot will automatically move to the predetermined standoff when a cutting program is started.

Constant standoff throughout the entire cutting path



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