designed to move over obstacles, irregularities or height differences when the mobile element is in the working position thereof, i.e. in contact with the upper surface of the sheet to be cut.

More specifically, the front portion 2a of said mobile element includes an end portion designed to pass over a height difference or an obstacle with or without a significantly reduced impact on the skirt 6, and with no or very little reduction in the movement speed of the nozzle.

According to the invention, the front portion 2a has an end portion 17 in which the external diameter ~~lessens~~ decreases progressively in the direction of the second output orifice 12. Consequently, the front portion 2a is designed to help it to pass over height differences or obstacles on the surface of the sheet. The impacts are better absorbed since the progressive reduction in the external diameter of the end portion 17 helps the skirt 6 to move back up towards the seat 5 when the skirt 6 encounters a height difference or a one-off obstacle.

End portion means a portion of the front portion 2a located at the extremity of said front portion, i.e. facing the upper surface of the sheet to be cut.

In one embodiment of the invention, the end portion 17 has at least one bevel 18 forming an angle (α) with the front face 1a of the nozzle body 1. The angle α of the at least one bevel 18 is between 0.1° and 80°, and preferably between 10° and 45°.

In the example shown in figure 4, the end portion 17 includes a single bevel 18. Preferably, the external profile of the end portion 17 is truncated-cone-shaped.

Advantageously, the front portion 2a also includes a cylindrical portion 16 of substantially constant external diameter, preferably arranged upstream of the end portion 17, i.e. further away from the second output orifice 12 than the end portion 17.

In another embodiment, shown in figure 5, the external profile of the end portion 17 has at least one curved portion. Preferably, the external profile of the end portion 17 has at least one convex portion. The radius of curvature of the at least one convex portion is typically between 0.1 mm and 2 mm.

The present invention therefore makes it possible to eliminate or largely limit the presence of sharp edges at the end of the front portion 2a.

The cylindrical portion 16 preferably has an external diameter of between 3 mm and 8 mm, and preferably around 6 mm.

At the second output orifice 12, i.e. at the end face of the front portion 2a facing the sheet to be cut, the end portion 17 has an external diameter of between 2.5 and 7 mm, preferably around 4 mm.

It should be noted that the external peripheral wall of the mobile element 2 has a stop 10, preferably an annular stop extending around all or part of the periphery of said mobile element 2, the elastic element 8 being positioned between the shoulder 9 and the stop 10.