

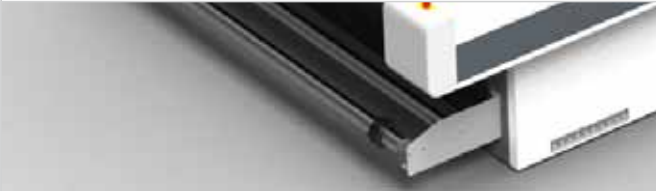
Roll-off Devices

Roll-off devices allow for automatically feeding, advancing, and processing flexible materials from rolls. Zünd cutters are frequently used for cutting rolls of vinyl, film, paper, fabrics, textiles, composites, thin carton and plastics, synthetic leather, carpet, and other materials. Two different roll-off options are available for a variety of applications.

All types of Zünd roll-offs are mounted at the back of the cutter, either on the machine itself or on a conveyor extension added to the machine as extended loading area. The two types differ mainly in the way in which they hold the rolls. With the “universal roll-off unit”, the roll lies on its side, i.e. the material is supported along the outside of the roll. The “roll-off unit with shaft” on the other hand suspends the roll on a rod that goes through the center (cardboard core) of the roll. The latter type is available in a motorized version; the motor does not facilitate the feeding process itself but helps to maintain tension of the material at the end of the advance. Only the material-advance system on the cutter generates the pull action required for advancing the material. To maintain the highest degree of accuracy when cutting continuous lines, advance-speed settings below level 5 are recommended.

Roll-off unit universal, passive*

Suitable for lighter rolls that need to be replaced frequently. Best suited for materials that are relatively dense and not prone to wrinkling, e.g. paper or vinyl. Since the pull action is generated by the advance system on the cutter, the material should have limited elasticity to avoid creating excessive material distortion.



Advantages

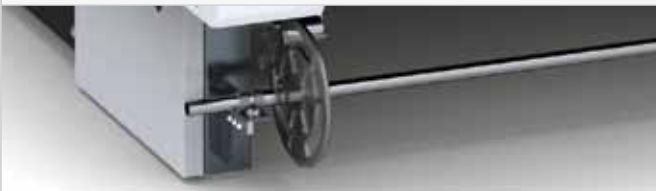
- Easy to use • Quick roll changes

Drawbacks

- Softer materials may be subject to flex (between the two support rolls) causing uneven advance, wrinkling • Potential for overrun at the end of the advance

Roll-off unit with shaft, active**

The active roll-off unit with shaft is equipped with a motor. The motor does not facilitate the advance per se but maintains tension on the material between roll-off and cutter at the end of the advance. The motor rewinds any material overrun that may have occurred at the end of the advance.



Roll-off unit with shaft, passive*

Suitable for rolls up to Ø350mm/Ø13.7” of soft, flexible materials prone to flexing, uneven advancing, e.g. fabrics. Since the pull action is generated by the advance system of the cutter, the material should have limited elasticity to avoid excessive material distortions.

Advantages

- Limits potential for uneven advance, wrinkling • Sagging of oversized rolls can be prevented with additional supports

Drawbacks

- Roll changes more laborious and time-consuming • Potential for overrun at the end of the advance



Specifications
Roll-off systems can be mounted to the cutter itself or a conveyor extension.
Max. roll diameter 350mm/13.7”.
Core diameter for roll-off with shaft 76mm/3”
Max. roll weight for roll-off unit with shaft 70kg/155lbs
Max. roll weight for universal roll-off 70kg/155lbs.
Universal roll-off available for all Zünd cutter sizes, S -3XL.
Roll-off unit with shaft available for cutter sizes M – 3XL.
When for reverse feed direction an auxiliary drive is required, the max. roll width is reduced by approx. 100mm/4”.

Benefits
Easy-to-use, cost-effective roll-off increases productivity, versatility of cutter.
Different types of roll-offs available for different materials.
Roll-off systems developed specifically for Zünd cutters (turn-key system)

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* Passive: non motor driven
 ** Active: motor driven

