Material handling Zünd Digital Cutter



Your first choice in digital cutting.



Manual loading of sheets/boards

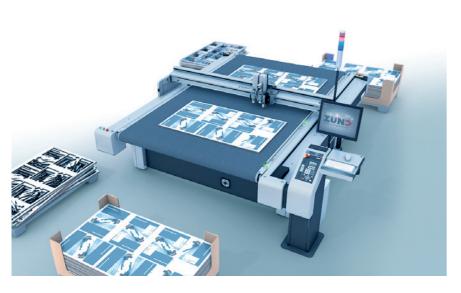
Tandem operation

In tandem operation, loading/unloading takes place in parallel to production. While increases productivity.

The working area of the tandem vacuum system consists of two vacuum plates that can the operator feeds material on one side, the be switched on and off independently of one cutter works on the other side. This saves another. Each side of the working area has time, reduces downtimes to a minimum and buttons for switching the vacuum on/off and for processing approval.

To place the material, the vacuum can be activated for the relevant working area. Once the material is placed correctly, the operator signals that processing may start by pressing the enable button.

G3 S3







Board loading feature

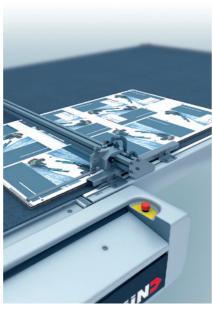
The board loading device serves as a mechanical guide for the exact alignment of

This allows the boards to be placed onto the conveyor belt while the material is bemanually fed board materials. It is always ing processed on the cutter working area. If used in combination with a cutter extension. an additional cutter extension is used in the

front, this serves as the unloading area. Thus, loading and unloading can take place during

G3 S3 D3





Fully automated board feeding

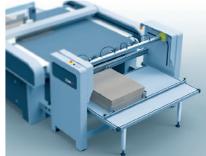
Sheet feeder

Highly productive and reliable material feeding - expand your Zünd Cutter into an automated production machine! Printed films cessing, waste and the end product are coland dense cardboard materials are trans-

ported from the loading table to the cutter work surface using suction cups. After prolected from the removal table.

With this automatic job process you are also able to master large jobs quickly and flexibly.







Board Handling System - BHS

High-volume orders, unique quality and maximum flexibility - with the board handling system, production can take place around the clock while reducing personnel require-

ments to a minimum! The fully automatic board feeding and removing process perfects your processes. Personnel requirements are limited to loading and unloading

the stacked pallets. Zünd cutters and the Board Handling System are designed for 24/7 operation.



S3

G3 D3

Automatic unwinding of roll material



G3 S3 D3 **Roll-off unit** Universal, passive

The Universal roll-off unit is especially well suited for light rolls of material that need to be changed often. Changing rolls is quick and easy. Ideally, the roll material should not be thick or prone to creasing (e.g., paper or plastic film). An adjustable brake effectively prevents the material from continuing to unwind. Creasing is greatly reduced through the use of a material guide roll.

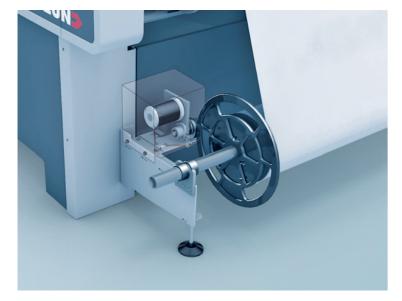


Roll-off unit Shaft, passive

In contrast to the Universal roll-off, the shafted roll-off is well suited for soft and flexible materials as well as textiles. The roll is threaded onto a shaft and placed in the roll-off unit. This keeps the roll from flexing during advances.

G3 S3 L3 D3

G3 S3 D3



Roll-off unit Shaft, active

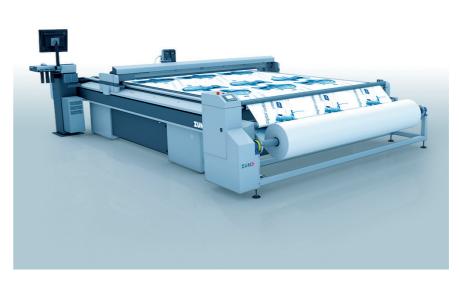
The active roll-off unit with shaft is motor driven and designed to rewind any slack at the end of the unwinding process. This effectively prevents creases from occurring as the material is being fed onto the working area.

Roll-off unit Center Winder

Expand your production capacity! The robust tem ensure consistent feeding tension. This materials after processing is finished. processing rolls up to 100 kg / 220 lbs.

The well-designed mechanics of this sys- winder not only unwinds but also rewinds which then functions as a passive roll-off unit.

design of the Zünd Center Winder enables allows even challenging textiles to be ad- Light rolls up to 40 kg / 88 lbs can be loaded vanced without creases. The driven center onto and advanced from the double-roll dancer,





Roll-off unit Cradle Feeder

The cradle feeder enables tension-free advancing of flexible, stretchy textiles. At the heart of the system is a cradle consisting of rollers and conveyor belts that advances material from a roll to the cutting area.

A dancer bar continually registers fluctuations in web tension. If needed, the cradle

feeder regulates the drive speed, ensuring completely tensionfree material advancing. Integrated edge control guarantees precise alignment of the material edges. If the sensor detects an irregularity, the cradle feeder automatically adjusts the horizontal alignment of the cradle.

Because no shaft is used to hold the roll in place, the core need not meet specific requirements. Even rolls with crimped, broken or missing cores can be processed.

G3 S3 D3

A rapid-rewind feature can be employed after processing to rewind material and create tightly wound rolls ready for later use.





G3 D3

Overview of roll-off units

Universal, passive Shaft, passive

Technical data

max. roll diameter	350 mm / 13.75"	350 mm / 13.75"
max. roll width	M-3XL ¹⁾	M-3XL ¹⁾
roll core diameter	-	3"
max. roll weight	70 kg / 155 lbs	70 kg / 155 lbs
available for cutter series	G3, S3, D3	G3, S3, L3, D3
available for cutter sizes	M-3XL	M-3XL

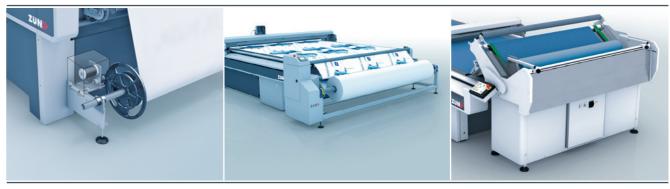
Product features

assembly on cutter extension	yes	yes
driven	no	no
roll end detection	no	no
web edge control	no	no
automatic regulation of material tension	no	no
pneumatically tensioned winding shaft to fix the roller	no	no
axis support to compensate for roller deflection	no	yes
roll-up function	no	no
direction of roll winding	inwards and outwards	inwards and outwards

Recommended use

crease-free feed	✓	√
tension-free feed	Х	X
preventing unwanted roll-off	✓	X
processing flexible materials	Х	√
fast roller change	✓	√
steady material tension	Х	X
correction of irregular material edges	Х	X

Shaft, active Center winder **Cradle Feeder**



350 mm / 13.75"	350 mm / 13.75"	400 mm / 15.75"
M-3XL ¹⁾	L-3XL	M-3XL
3"	3"	-
70 kg / 155 lbs	100 kg / 220 lbs	100 kg / 220 lbs
G3, S3, D3	G3, D3	G3, S3, D3
M-3XL	L-3XL	L, XL, 3XL ²⁾

	no	yes	yes
	no	yes	yes
	no	yes	no
	no	no	yes
	no	yes	yes
	no	yes	no
	yes	no	no
_	yes	yes	yes
_	either inwards or outwards	inwards and outwards	inwards and outwards

✓	✓	✓
×	X	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	Х
×	Х	✓











¹⁾Max. roll width reduced by 100 mm in combination with auxiliary drive.

²⁾ The enclosed unwinder is compatible with all G3 and D3 widths, since the widths M and 2XL in these cutter series are covered via excess width.

Automatic winding of roll material



Roll-up unit G3 S3 Shaft, active

With the driven roll-up unit shaft, large kiss cutting jobs can be produced fully automatically! The material is immediately rolled on to the roll core after processing, which ensures that it remains clean and free of kinks and creases. This roll-up unit is ideal for vinyl or printed textiles with a roll weight of up to 70 kg.



Roll-up unit Tray, active

G3 S3

The roll-up unit tray, active, is perfectly suited for small Kiss-Cutting jobs. The foil is automatically wound in the tray after processing. After each separating cut the wound foil can be immediately taken out of the tray - directly and without interrupting production.

Make sure that the individual foil sections are no more than 20 m long.

Overview of roll-up units



ICUI	IIIILa	l data

max. roll diameter	350 mm / 13.75"	-
max. roll width	M-XL ¹⁾	M-XL
roll core diameter	3"	-
max. roll weight	70 kg / 155 lbs	10 kg / 22 lbs
available for cutter series	G3, S3	G3, S3
available for cutter sizes	M-XL	M-XL

Product features

assembly on the cutter extension	no	yes
driven	yes	yes
roll end detection	no	no
automatic regulation of the material tension	no	no
pneumatically tensioned winding shaft to fix the roller	no	no
axis support to compensate for roller deflection	yes	no
roll-up function	yes	yes
direction of roll winding	either inwards or outwards	outwards

Recommended use

frease-free wind-up	✓	X
preventing unwanted roll-off	✓	✓
processing flexible materials	✓	Х
fast roller change	✓	✓
steady material tension	✓	X











¹⁾ Max. roll width reduced by 100 mm in combination with auxiliary drive.

Material transport

The conveyor belt is a cutting board and The material transport allows the use of cutting area while the cutter is loaded at the of the cutter. same time.

transport belt at the same time. Cut parts cutter extensions and the production of jobs

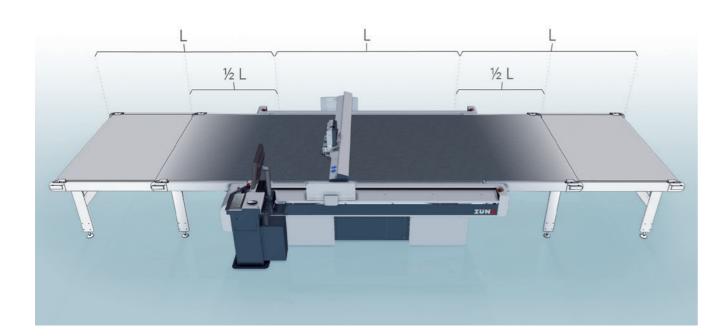
Transport elements fix the material during feeding. Use of the optional transport bars are automatically transported away from the that are longer than the actual working area is recommended for thin and flexible roll or sheet materials.



Cutter extensions

tion on the front and/or rear of the cutter in half of the cutter working area (½ L). the following sizes:

Cutter extensions are available for installa- G3, D3: enlargement by the full length (L) or S3: enlargement by the full length of the whole cutter working area (L).





Vinyl advance system

A special vinyl advance system makes the S3 the perfect cutter for vinyl and other foil-cutting applications. Central to this type of configuration is the vacuum plate designed especially for kiss-cutting. Cutting occurs directly on the table plate without any kind of underlay. The system comes with a roll-end sensor that automatically suspends operations when the end of a roll is reached. A cutting strip for automatic sheeting completes the system.



Collection tray

G3 S3 D3

The collection tray is a handy, removable bin for collecting cut materials and waste as they come off the conveyor belt. It helps protect cut pieces and keeps the work area neat and clean. For emptying, the collection tray can easily be detached from the machine.



Material-guide roll

G3 S3 D3

The material guide roller effectively prevents creasing in textile materials. In this process, the material is fed over a guide roller. We recommend always using the material guide roller in combination with a roll-off unit.

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