Setup, Service

General

Intended purpose

The Jumbo Stacker (called "stacker" below) is an add-on unit for label printers of the TTX x50 and 64-xx series as well as to the AP 5.4. The stacker is designed to stack label material after this has been printed by a label printer of the above type and has been cut.

Fig. 1: The Jumbo Stacker applied to a 64-04 printer.

Mode of operation

The stacker is positioned in front of the printer (see Fig. 1) in such a way that the cut labels fall onto the conveyor belt of the stacker. The conveyor belt transports the labels to the pusher mechanism, which pushes them onto the stack and keeps them there. Once the maximum stack length has been reached, a limit contact is actuated and the printer stops.

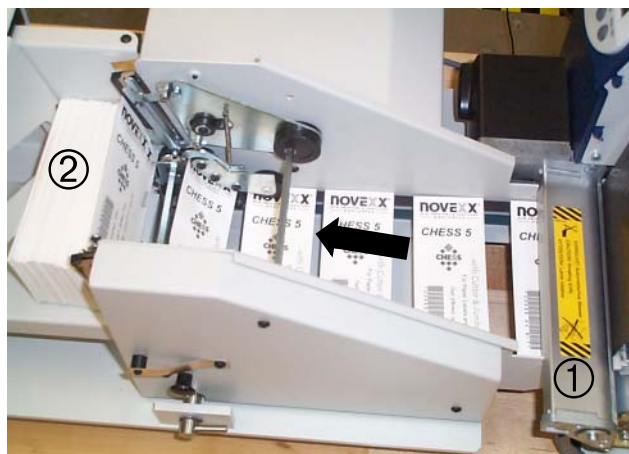Apart from this final disconnection, the stacker operates independently of the printer.

Fig. 2: The stacker during operation. The ribbon transports the cut labels from the knife (1) to the stack

System requirements

The stacker can be used with the following printer types:

Printer types
– AP 5.4
– TTX 450/650/674/675/950/1050 – S45/65/95/105
– 64-04/05/06/08

Knife   The used printer must be fitted with a knife.

Single Start   The used printer must be fitted with the Single Start option. This is a connection at the printer rear side, which stops the printer if the stacker is full.

AP 5.4 printers are generally equipped with a single start connector (3-point jack plug).

➡ Connecting the stacker to an AP 5.4 requires an adapter cable (Part no. A6338).

Printer	Part number
TTX 450/650/950/1050 S45/65/95/105	99806
64-04/05/06/08	A1863

Tab. 1: Part numbers of the Single-Start option.

Label material Cardboard materials are suitable for stacking.

○ Details about the material to be used can be found in paragraph Technical specifications on page 16.

Safety notes

⚠ ➡ Use only printers with a Single Start option! If there is no limit disconnection by the single start option, there may be a material jam when the stack is complete, leading to severe damage to the stacker!

➡ The limit switch may only be connected to Security Extra Low Voltage (SELV) circuits. Any connecting of the limit switch to other than SELV circuits is considered as improper use and is prohibited!

Setting up

To set the stacker up, please perform the following steps, which are described in the following paragraphs:

1. Place the stacker by means of the positioning plate in front of the printer. The positioning plate is shipped together with the printer.

❍ See in paragraph Positioning the stacker on page 4.

2. Adjust the material width.

❍ See in paragraph Setting the material width on page 8.

3. Connect the stacker to a mains socket and to the single start connector at the printer.

❍ See in paragraph Connecting the stacker on page 9.

4. Set the printer to single start mode.

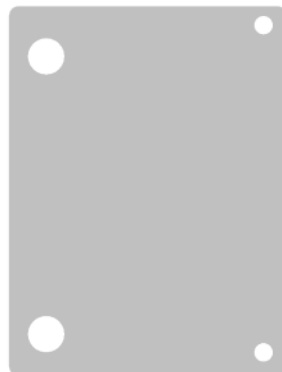❍ See in paragraph Setting the printer parameters on page 10.

Positioning the stacker

The stacker has to be braught in an exact position in front of the printer in order to function properly. The positioning plate shipped with the printer keeps the stacker in its ideal position, even in continuous operation. Depending on the printer type, there are two different types of those plates (see Tab. 1:).

Positioning plates

Printer	Positioning plate
TTX 350/450/650/674/675 64-04/05 TTK	Type 1
TTX 950/1050 64-06/08	Type 2

Tab. 1: The positioning plate need to match the printer.

Printer	Positioning plate
AP 5.4	Type 3

Tab. 1: *The positioning plate need to match the printer.*

Using positioning plate type 1:

1. Locate the positioning plate (1) between printer and stacker as illustrated (Fig. 1).

2. Lift the printer at the front end (Fig. 2).

3. Shift the positioning plate under the printer, so that both plastic discs (2) are above the big holes (3) in the plate (Fig. 3, seen from below).

4. Put the printer down.

5. Lift the stacker and place its two „forefeet" into the holes in the positioning plate as illustrated (Fig. 4).
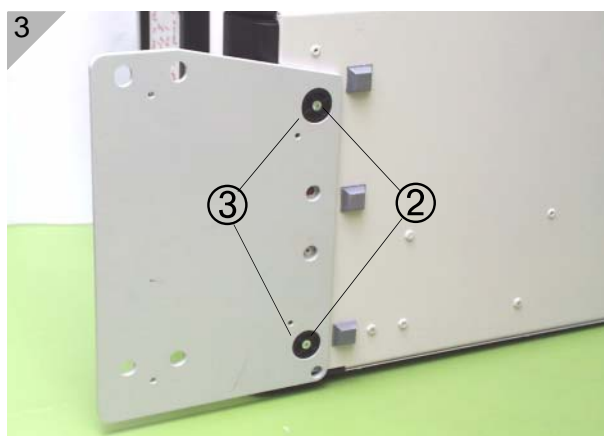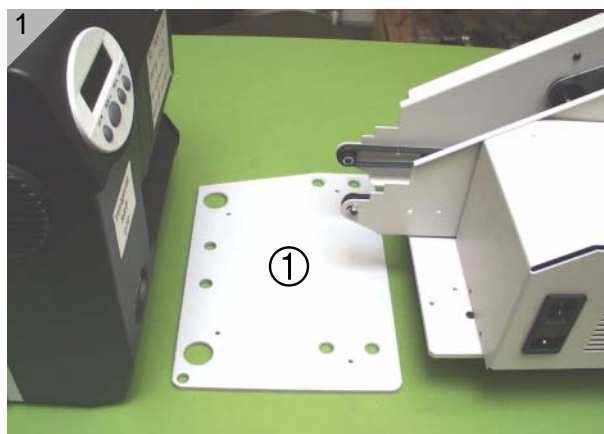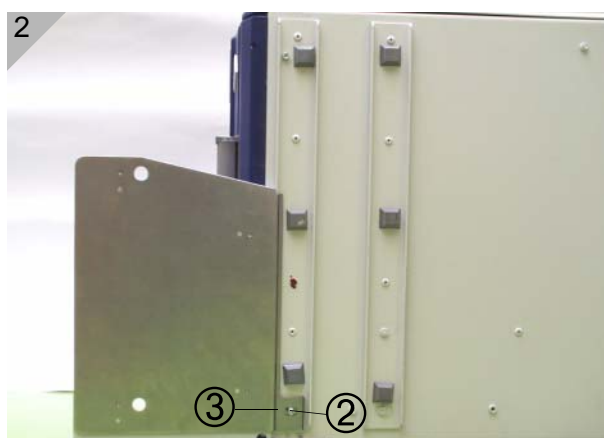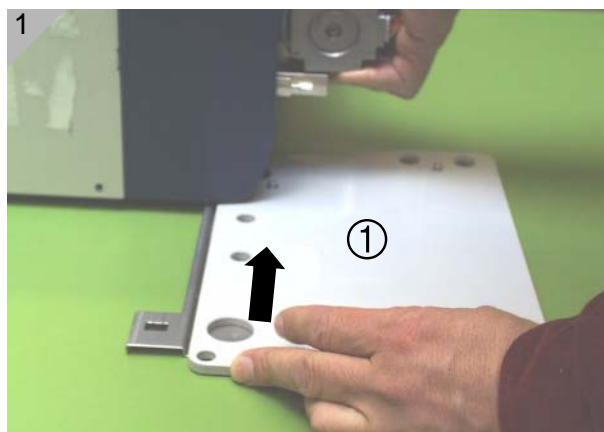
Using positioning plate type 2:

1. Shift the positioning plate (1) under the printer as illustrated (Fig. 1). The screw (2) is supposed to snap into the notch (3, see fig. 2)

2. Lift the stacker and place its two „fore-feet" into the holes in the positioning plate as illustrated (Fig. 3).

Using positioning plate type 3:

The application is the same as for positioning plates type 1.

Setting the material width

1. Position the stacker in front of the printer in such a way that the two side panels (3) of the stacker lie against the knife (4, see fig. 1).

IIII➤ The positioning plates shipped with the stacker keep the device automatically in this position.

2. Put the locking lever (5) of the stacker to "Unlock" (3 o' clock position).

3. Seitenteil (6) so verschieben, dass das Etikettenmaterial (7) mit etwas seitlichem Spiel auf dem Förderband zu liegen kommt (Abb. 3).

4. Push the side part (6) so that the label material (7) ends up lying on the conveyor belt with some lateral clearance (Fig. 1).

5. Put the locking lever to "Lock" (12 o' clock position).
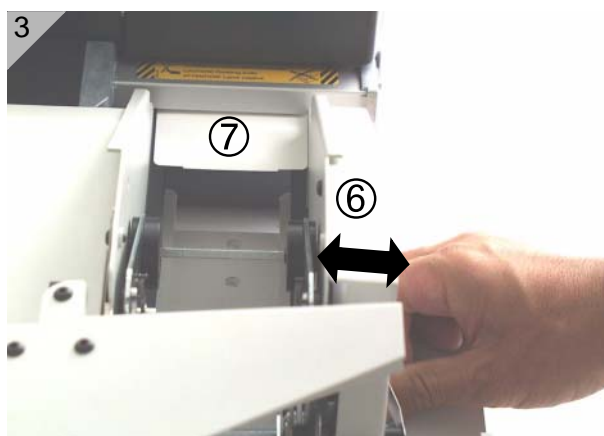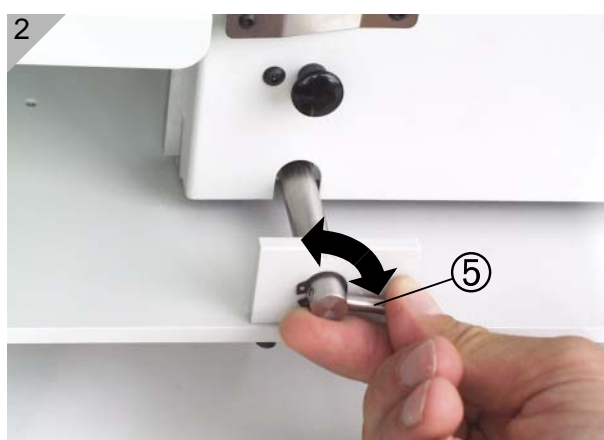
Adjusting the stacker height

The stacker must be located so that the conveyor belt begins a little below the labels coming out. You may need to adjust the height of the feet to the underside of the stacker:

1. Undo lock nuts (Fig. 4).

2. Turn foot out (higher) or in (lower).

3. Tighten the lock nut again.

Connecting the stacker

1. Switch the power switch (1) off (switch at the "0" position).
2. Connect the power cable to the stacker terminal (2) and to the power socket.
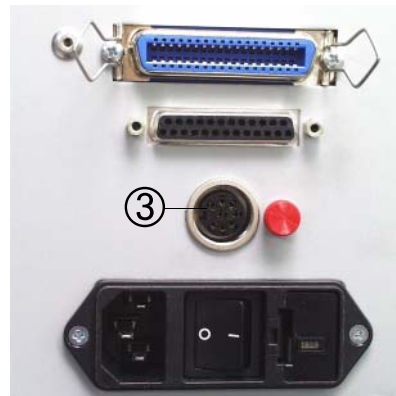

Fig. 1: Connect the power cable to the stacker terminal (2) and to the power socket. Connect the single start cable to the printer (3).

3. Connect the signal cable of the stacker to the Single Start terminal (3) of the printer (Fig.: TTX 450).

➠ Connecting the stacker to an AP 5.4 (3-point jack plug) requires an adapter cable (Part no. A6338).

Applying the antistatic-clip

Cardboard < 45 mm In order to process cardboard labels up to a length of max. 45 mm it is strongly recommended to apply the antistatic-clip delivered with the Jumbo Stakker. The clip avoids sticking of the statical charged labels and ensures proper placement of the labels on the conveyor belts.

→ Plug the antistatic-clip (1) from the front on the aluminum profiled section (2) of the cutter. Place the clip centered above the label; the stabilizers (3) show downwards.
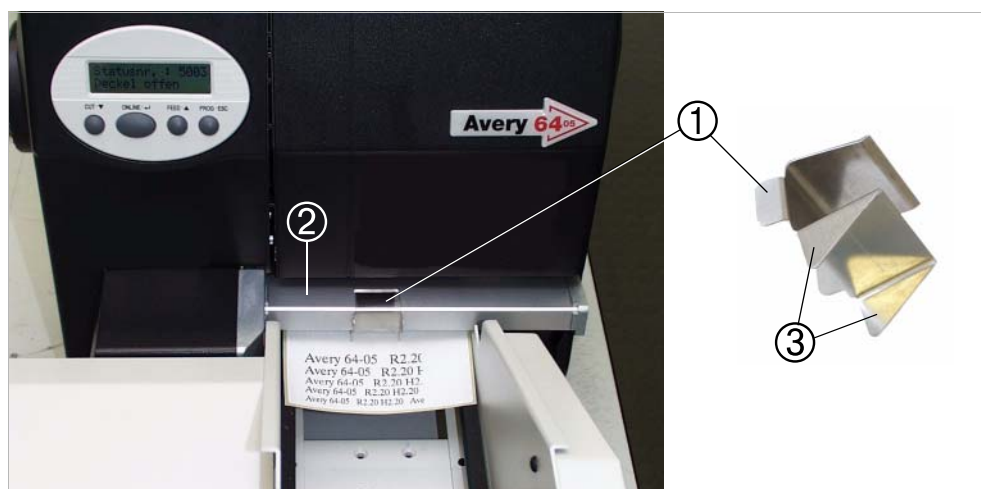

Fig. 2: Plug the antistatic-clip (1) centered above the label. The stabilizers (3) show downwards.

Setting the printer parameters

To ensure that the printer stops printing on the stacker full signal, you must make the following settings in the Parameter menu of the printer. The names of the parameters differ slightly according to the printer used.

TTX x50 / Wildcats   Set printers of the TTX x50 / Wildcats series as follows:

1. Connect the printer and switch on.

   OFF

2. Press the FEED+CUT key.

   INFO

3. Press the CUT key 3 times.

   SYSP

4. Press the ON/OFF key.

   EMUL

5. Press the CUT key several times until the display shows

   EXTR

6. Press the ON/OFF key. Press the CUT or FEED key until the display shows

   STAC

7. Press the ON/OFF key to confirm. Press the FEED+CUT key several times until the display returns to

   OFF

64-xx / Chess x   Set printers of the 64-xx / Chess x series as follows:

1. Connect the printer and switch on.

   OFFLINE   0 JOBS

2. Press the Prog. key.

   PRINT OUT INFO

3. Press the Online key. Then press the Cut key 3 times.

   SYSTEM PARAMETER

4. Press the Cut key several times until the display shows

   SYSTEM PARAMETER
   External signal

5. Press the Online key. Press the Cut or Feed key several times until the display shows

> External signal
> Stacker full

6. Press the Online key to confirm. Press the Prog. key several times until Offline mode is displayed again (see step 1).

Print speed

The stacker always operates at a constant speed. The maximum speed at which printing can take place depends on the material and dimensions of the labels.

→ Adjust the print speed to the stacker. To do this, change the values of the following parameters:

Printer	Parameter
64-xx / Chess x	PRINT PARAMETERS/ Print speed
TTX x50 / Wildcats, TTK / Texxtile	PRTP/PSPD

Tab. 2: Use those parameters to set the print speed.

❍ More details about the individual parameters can be found under "Information printouts and parameters" in the User Manual.

Operation

⚠️ CAUTION!

Danger of pulling in and tearing off hair, jewellery, loose parts!

– *Don´t let any hair / jewellery or other loose parts hang into the stacker.*

Starting

1. Switch the stacker on at the power switch ("I" position).

2. Start the print job.

○ More details about starting a print job can be found in the User Manual for the printer.
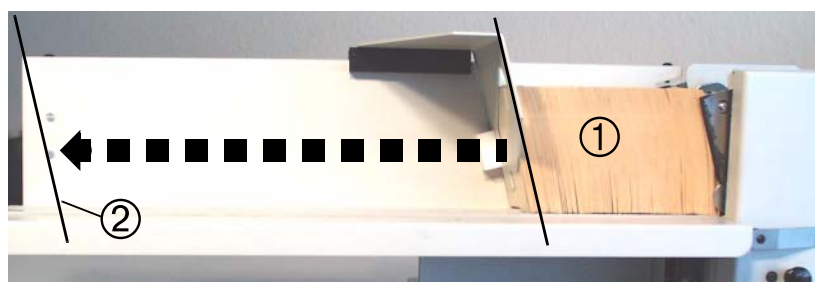
Stacker full

Fig. 1: When the stack (1) has risen to the maximum length (2), the printer stops.

If the stack of labels has reached the maximum stack length, the printer stops the print job and displays the following status report:

TTX x50 / Wildcats

| ST04 | (ST04 = stacker full) |

→ Empty the magazine and press the ON/OFF key. The print job is then continued.

64-xx / Chess x

| Status | 5060 |
| Stacker full | |

→ Empty the magazine and press the Online key. The print job is then continued.

○ Details about the status reports can be found under "Status reports" in the respective printer manual.

Service

⚠	CAUTION!
	The electrical voltages inside the housing can kill!
	– *Switch the machine off and pull out the plug before opening the housing.*

Replacing conveyor belts

To be able to replace the conveyor belts, you must first extract the square axle (2) at the side.
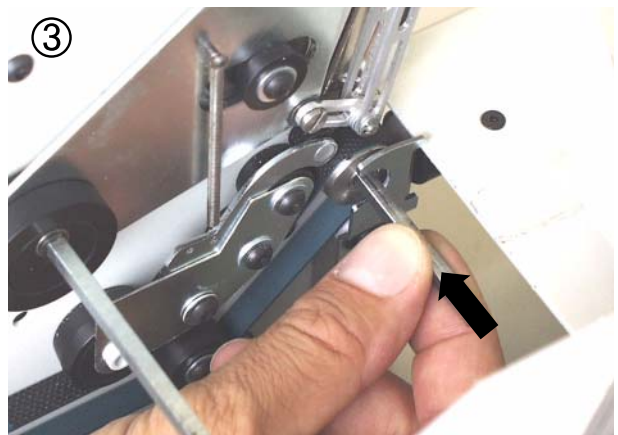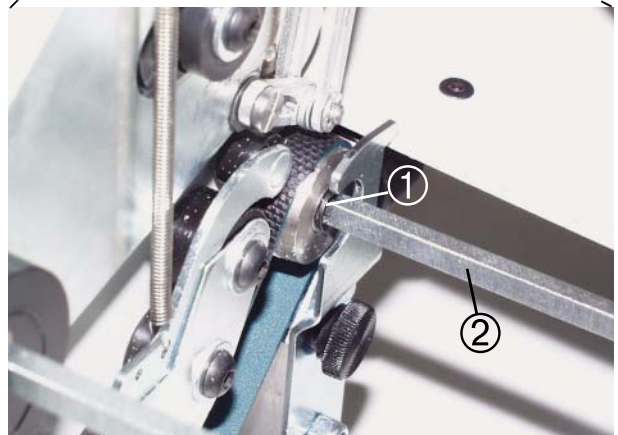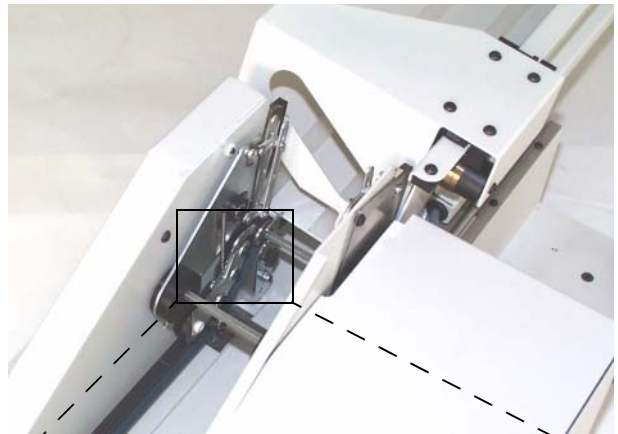
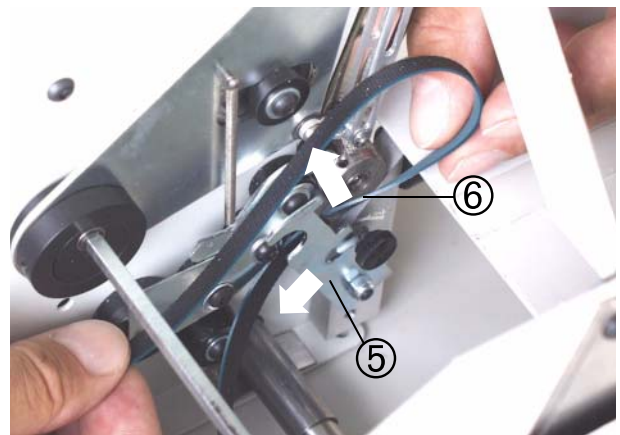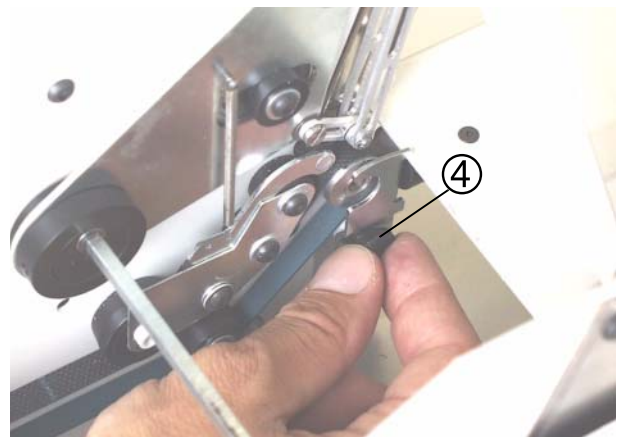### Tools

– Flat pliers
– Small screwdriver

Disassembly / assembly

1. Set the stacker to the maximum width.

2. Remove securing ring (1).

3. From the side, pull square axle (2) out (3).

❍ Continued on next page.

4. Undo knurled screw (4).

5. Turn adjusting plate (5) to the side.

6. Remove conveyor belts (6) from the guide rollers and thread past the adjusting plate (7).

Adjusting the material zero-line

The stackers interior side plate (1) should be in line with the material zero-line of the printer. The lateral position can be adjusted by slightly shifting the left „forefoot"(2) of the stacker.

To do so, proceed as follows:

1. Loosen (3) the screws until the foot (2) can be shifted.

2. Adjust the position of the stacker until the interior side plate is in line with the material zero-line.

3. Re-tighten the screws.
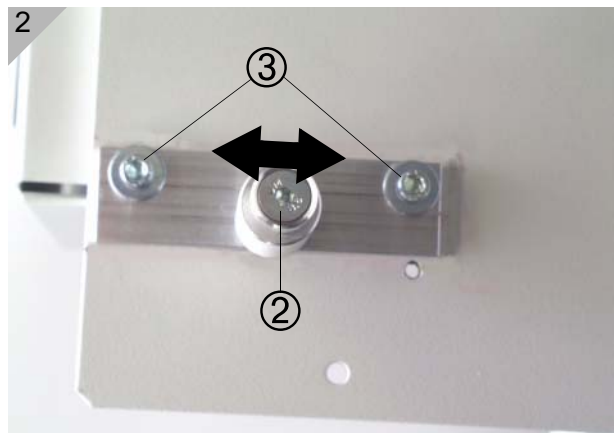
Technical specifications

Dimensions	Length: 763 mm Width: 333 mm Height: – from floor plate: 197 mm – with feet: approx. 235 to 260 mm
Weight	8.8 kg
Type of material	Cardboard with the following attributes: – Rectangular label shape – Edge radius maximum: 8 mm

➠ If the labels to be stacked provide any of the following attributes, the stacker function first has to be tested:
– Perforation
– Grooves
– Special size

The test results listed below (see Tab. 4:) show, that some label materials are stackable, although they do not match the specifications.

Material specifications

	Min.	Max.
Width	36 mm	132 mm
Length	35 mm	130 mm
Weight	160 g/m^2	240 g/m^2

Tab. 3: Specifications, the used cardboard material should match.

No.	Mat. thick-ness	Mat. length	Mat. width	Punch type	Pre-fold across	Perforation	Stack-able
1	0.25	54	102	CNL-1		Length- + Crosswise	Yes
2	0.25	102	102	CNL-1	Yes	Lengthwise	Yes
3	0.25	38	102	CNL-2			Yes
4	0.25	190	88	BE / EURO	Yes		Yes
5	0.22	52	85	CNL-1		Lengthwise	Yes
6	0.24	95	83	CNL-1 / EURO	Yes		Yes
7	0.25	102	80	BE and EURO	Yes		Yes
8	0.25	25	80	CN-1			Yes
9	0.25	152	76	BE			Yes
10	0.19	76	76	BE, hole, speci-al		Crosswise	Yes

Tab. 4: Stackability of different cardboard materials. Applied material rolls: Inner diameter 100 mm, outer diameter 200 mm; Label facing outside.

No.	Mat. thick- ness	Mat. length	Mat. width	Punch type	Pre- fold across	Perforation	Stack- able
11	0.25	64	76	CNL-1			Yes
12	0.25	32	76	CN-1		Lengthwise (centered)	No
13	0.16	38	76	CN-1		Lengthwise (centered)	No
14	0.25	60	76	CN-1		Lengthwise	Yes
15	0.27	76	73	CNL-2 , Stub-1			Yes
16	0.25	102	70	BE / Euro			Yes
17	0.25	114	65	CN-2		Crosswise	Yes
18	0.25	203	60	Rectangle (special)			No
19	0.25	38	60	CN-1		Length- + Crosswise	Yes
20	0.22	54	52	CNL-1			Yes
21	0.22	60	51	CN-1			Yes
22	0.35	102	51	BE			Yes
23	0.25	108	51	CN-2			Yes
24	0.3	60	45	CN-2			Yes
25	0.25	152	45	CN-2	Yes		Yes
26	0.25	88	45	BE			Yes
27	0.22	38	45	CNL-1			Yes
28	0.2	38	38	CN-1			Yes
29	0.27	42	48	Special			Yes

Tab. 4: Stackability of different cardboard materials. Applied material rolls: Inner diameter 100 mm, outer diameter 200 mm; Label facing outside.

Stack length   max. 310 mm

Noise level   65 dB(A)

Mains voltage   230 V +/-10%

Mains frequency   50 Hz

Power consumption   85 W

Fuse   2 A slowblow

Ambient conditions   Operating temperature: +5 to +35 ºC
Storage temperature: -20 to +70 ºC
Air humidity: 45 to 75%, non-condensing

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