Unloading, Unpacking and Handling

Version 2.5
1. Unloading, unpacking, handling

1.1 For your safety

Only appropriately trained personnel are to be entrusted with handling the machine. Ensure compliance with the relevant safety regulations for operating handling equipment.

In particular, make sure that no-one is standing in the danger area near the machine before each lifting operation.

Do not allow anyone to walk under the suspended load while it is being moved.

1.2 Unloading from a truck with box body

1.2.1 Using a crane and fork-lift truck

Figure 1.1: Unloading by crane and fork-lift truck
1.2.2 Using a fork-lift truck

**CAUTION**

Make sure that the stand used to support the crate has an adequate load carrying capacity.

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Figure 1.2: Correct way of unloading by fork-lift truck

Figure 1.3: Incorrect way of unloading by fork-lift truck
1.3 Unpacking

1.3.1 Consignments delivered in a transport crate

Unloading and handling instructions are attached to the crate at the illustrated places (Fig. 1.4). Begin by opening and removing the crate lid.

- Remove the front panel and then (if necessary) the sides.
- Remove the packing material and the desiccant sachets attached to the machine.
- Remove all individually packed components situated on and underneath the work table.
Figure 1.5: Machine mounted on wooden transit blocks

Fixing bolts

Transit block

Floor of pallet/crate

• Slacken off the bolts securing the wooden transit blocks to the bottom of the crate See Fig. 1.5.

1.3.2 If delivered on a pallet

Unloading and handling instructions are attached to the foil packaging.

Proceed as follows to unpack a machine delivered on a pallet:

• Remove the foil packaging
• Remove the desiccant sachets.
• Remove all individually packed components situated on and underneath the work table.
• Slacken off the fixing bolts securing the wooden transit blocks to the pallet. See Fig. 1.5.

Do not detach the machine from the transit blocks until you install it in the working position. They are not replaced by the machine shoes until the machine is finally installed.

Machines without casters

Do not detach the machine from the transit blocks until you install it in the working position. They are not replaced by the machine shoes until the machine is finally installed.
Prohibited areas for fork-lift trucks

**CAUTION**

Do not lift the machine at the places indicated (Fig. 1.6) with a fork-lift truck – the forks could damage the control cabinet(s).

NOTE

The illustrated prohibited areas (control cabinet(s) and immediately adjacent areas) apply to S/M/L/X/Y/Z-series machines and to embroidery machines with K or W heads that have additional control cabinet(s) (depending on number of heads) (control cabinets depicted by hatching).
1.4 Moving to the installation location

Prevent the machine from tipping to one side. The machine is liable to tip because the center of gravity is not always in the middle. Personal injury or damage to property can result from the machine tipping over.

Do not lift the machine at the places indicated (Fig. 1.6) with a fork-lift truck – the forks could damage the control cabinet(s).

The machine is to be moved only by appropriately trained personnel familiar with the relevant safety regulations. Also observe the following points before moving the machine:

• Prevent the machine from tipping to one side.
• Commence lifting movements with care.
1.4.1 Handling by crane

Attach the handling chains or cables only at the eye bolts. The eyes of the eye bolts must be positioned parallel to the long side of the machine. See Fig. 1.7.

Two eye bolts are provided on the machine for handling by crane.
The handling chains or cables should be as close to vertical as possible and must **not exceed** an angle from the vertical of 26° when the load is being lifted. For this reason, a cross-bar is generally necessary for handling purposes.

The dimensions refer to *Fig. 1.8*:

![Diagram of crane moving with cross-bar](image)

**NOTE**

The permitted value of 26° will not be exceeded if the dimensions shown in the tables in *Fig. 1.9* are observed.

**Figure 1.9:**
Table of dimensions for handling by crane, see *Fig. 1.8*

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**Table 1:**

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</tr>
</tbody>
</table>
1.4.2 Moving by fork-lift truck  
(only if the use of a crane is ruled out)

**DANGER**

Take action to prevent the machine from tipping to one side before carefully commencing lifting movements. The machine is liable to tip because the center of gravity is not always in the middle.

Two people at least (the fork-lift operator and an observer) are always required when the machine is being moved in order to avoid personal injury and property damage.

In ideal circumstances the embroidery machine is to be moved by a crane. Use a fork-lift truck **only** in the absence of a crane. The fork-lift truck must have sufficient lifting capacity to accommodate the weight of the machine, and a fork length that allows the bottom cross beam(s) of the embroidery machine to make full contact with the fork when the machine is raised.

When introducing and raising the forks, make certain that they do not contact any part of the machine (cables, stepping motor etc.) except for the bottom cross girder. See prohibited areas for fork-lift trucks Fig. 1.6.

- Introduce the forks underneath the machine frame at the center from the back.
- Raise the forks carefully until they make contact with the bottom cross beams of the machine. See Fig. 1.10.

**CAUTION**

Figure 1.10: Machine with fork-lift truck
1.4.3 Handling on casters (option)

NOTE

The casters are available as an option for all machine types. They make it easier to move the machine on site and are intended exclusively for this purpose. Remove the transit blocks before moving the machine for the first time.

Installing casters

DANGER

Use only the bolts supplied together with the casters by ZSK Stickmaschinen GmbH. The bolts have to withstand the enormous load imposed by the machine weight; sub-standard bolts can shear when exposed to the weight of the machine and thus cause physical injury or damage to property.

NOTE

You are recommended to lift the machine with a fork-lift truck when installing the casters. In doing so, ensure compliance with the prohibited areas for fork-lift trucks (Fig. 1.6). No liability is accepted for physical injury or damage to property arising from the use of bolts other than those supplied by ZSK Stickmaschinen GmbH.

Figure 1.11: Installing casters (S to Y series)

1.11-1

- Install the casters in the envisaged positions with the four bolts (1.11-1) supplied for each caster.
- Carefully lower the machine to the ground.

⇒ The machine can now be pushed to its installation location.
Detaching casters

**CAUTION**

Detach the casters as soon as the machine arrives at its resting place. You are not allowed to operate the machine with the casters installed; they are intended exclusively for the purpose of moving the machine. No liability is accepted for physical injury or property damage arising because casters were still attached to the machine while it was embroidering.

**NOTE**

You are recommended to lift the machine with a fork-lift truck when detaching the casters. Pay attention to the *Prohibited areas for fork-lift trucks*. Once it is in position, the machine can be installed. See *Setting up machine*.
1.4.4 Relocating machine on casters

NOTE

Each time you wish to move the machine again on casters, you must detach the machine shoes before installing the casters.

Detaching machine shoes

- Remove frame side wall panels.
- Lift the machine with a fork-lift truck.
- Remove machine shoe (1.13-4).
- Slacken off nut (1.13-3).
- Remove nut and washer (1.13-2).
- Unscrew and remove adjusting screw (1.13-1).
1.5 Disposal of packaging materials

Dispose of the packaging materials in compliance with national and local law.

- The crate and pallets are made almost entirely from natural, non-toxic materials and can be disposed of accordingly. Other treatment guidelines apply in a small number of specific countries. Advice about these can be obtained locally from the relevant authorities.

- Packaging paper, board and foil can be recycled for reuse.

- The desiccant bags contain a natural salt that can be disposed of together with domestic refuse.