

Assembly Instructions for Proff Litho and Etching Press



Congratulations on your new Norup press from TofKo

Please note that the press has been assembled and tested before leaving our factory, but due to transport your press is only partly assembled on delivery. This manual gives an instruction of how to assemble the press.

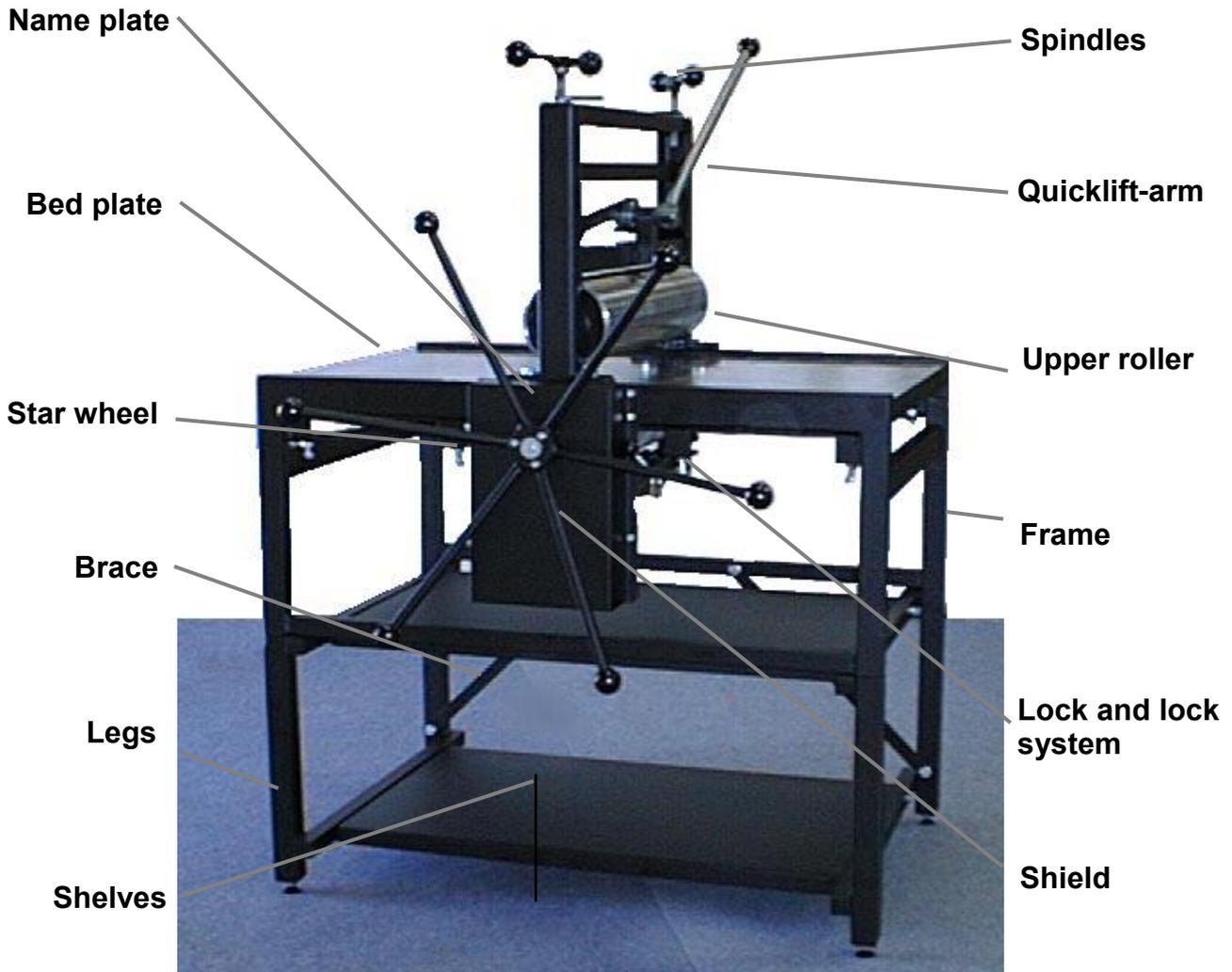
We hope you will enjoy working with your new press!

Kind regards,

TofKo

Type:
No.:

You can also find this information written on the plate mounted on the press.
We kindly ask you to refer to the name and the number if you need to contact us regarding the press.



Depending on the type of press, the packing material and the location of each part may vary. The following photos illustrate the unpacking and assembling of a press type Proff PP 60 x 100. However, as the assembling of all our presses are very similar, the instructions given in this manual apply to all our models.

For the assembly you will need the following tools: a pair of scissors or a knife and socket spanners with the following measurements: 10, 13 and 17 mm, and a level.

For tightening M6 bolts use a 10 mm socket spanner.
For tightening M8 bolts use a 13 mm socket spanner.
For tightening M10 bolts use a 17 mm socket spanner.

We recommend that the press is assembled by two or more persons as some of the parts are relatively heavy and can be difficult to handle.

Before the assembly of the press please read these instructions carefully.

A Litho press is assembled as an etching press. Instead of a toproller the litho upper part is installed.

Instead of mounting the top roller (fig. 6-7) turn to page 10 in this manual, here the mounting of a litho upper part is described (fig. 15-17). Afterwards turn back to fig. 8 and follow the directions as before.



1. The press is delivered in a cardboard box protected by a wooden frame. Empty the cardboard box.

Important: Do not cut the strings around the upper roller.



2.

Check the contents of the box:

1. 1 pcs. steel frame
2. 2 pcs. legs
3. 1 pcs. upper roller unit in frame **(OR: 1 Litho Upper part)**
4. 1 pcs. lower roller with drive unit
5. 1 pcs. star wheel
6. 1 pcs. bed plate
7. 2 pcs. shelves
8. 1 pcs. shield
9. 2 pcs. braces for the legs
10. 1 pcs. lock and lock-arm
11. 2 pcs. springs (d=4, D=30, l=70)
12. 1 set screws and washers:
 - 4 pcs. M6x20 for the shield (above)
 - 2 pcs. M6x20 with nuts for the shield (below)
 - 3 pcs. M6x35 for the star wheel
 - 8 pcs. M8x35 with washers for the shelves.
 - 8 pcs. M10x25 with washers for the upper and lower roller
 - 4 pcs. M10x12 for the braces
13. 1 set safety equipment
 - 4 pcs. locking plates with screws and washers

The press is delivered semi-knocked down and has been assembled before leaving our factory. Please check that no parts are damaged or missing. Should this be the case, please contact us immediately thus enabling us to convey the claims to our shipping company.



- 3.** Mount the two shelves on the legs with 8 M8 screws and washers. The easiest way of doing this is to turn the parts upside-down. Mount the screws loosely to begin with.

Turn the unit around.

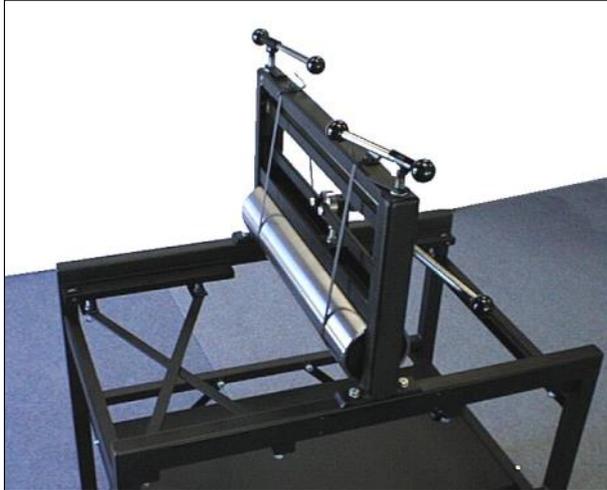
- 4.** Place the steel frame on the unit and press it on. Note that the threaded holes for the braces are facing the same side on the steel frame as well as the unit.



- 5.** Mount the braces with 4 M10 screws and washers. Retighten all screws and the whole unit will be stabilised, and can be moved to its permanent place.

Adjust the feet in order to place the frame in level. Use a level.

(For mounting the litho-upper part please turn to page 10).



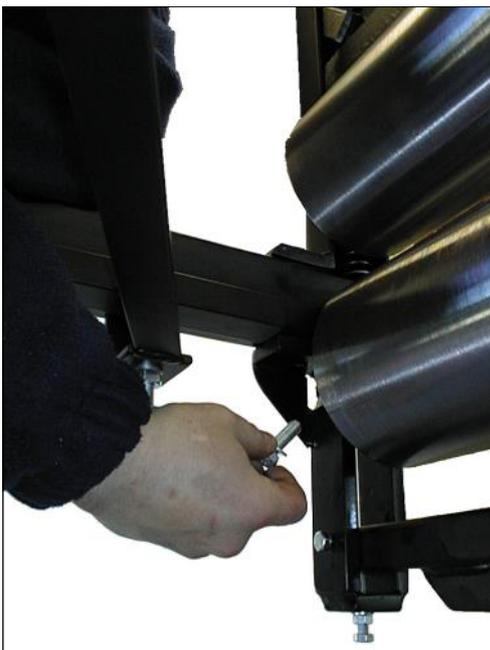
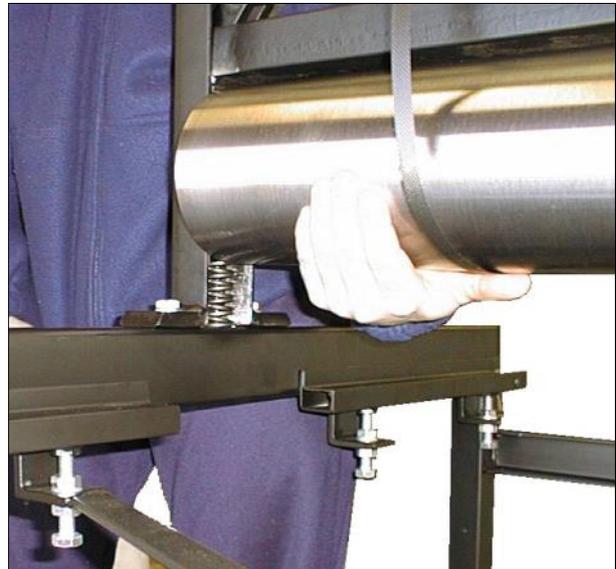
- 6.** Mount the upper roller on the steel frame with M10 screws and washers. The quick-lift arm must point opposite from the side with the braces.

Do not cut the plastic strings placed around the roller.

- 7.** The spindles equipped with locking plates on top of the upper roller must be screwed upwards, and the quick-lift arm must be turned to the opposite side (same side as the braces).

Lift up the upper roller and fit the two springs in each side under the upper roller. Mind your fingers – the upper roller is heavy!

Cut the strings and the upper roller will be carried by the springs.



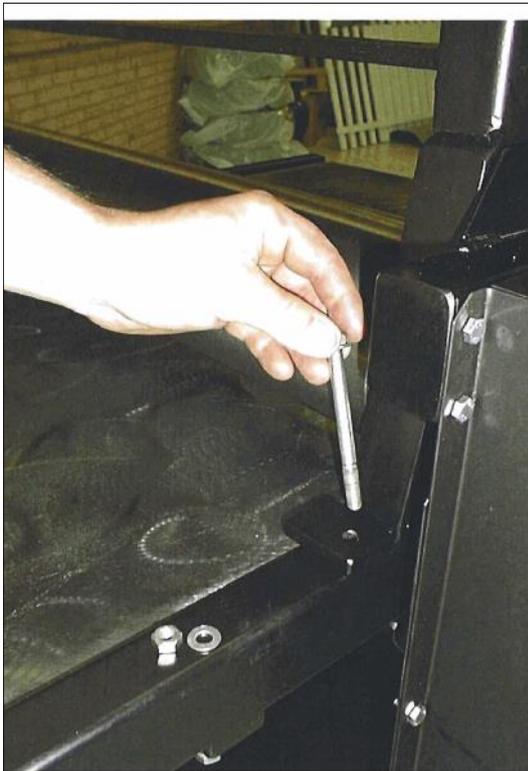
- 8.** Tighten the lower roller carefully to the steel frame from below with 4 M10 screws and washers. Use a 17 mm socket spanner with ratchet.

Note that the chain drive faces the same side as the pipe for the locking system (on the frame).



9.
Clean the under side of the bed plate and the lower roller with a cloth wrung in turpentine, and wipe with a dry cloth afterwards. This will remove the oil film and prevent the lower roller from sliding during printing. Place the bed plate on the unit with the small wheels turning downwards. The frame is equipped with similar wheels.

10.
Mount the shield with 6 M6 screws – 4 screws above and 2 screws with nuts below.



11.
Safety equipment:

In order to prevent the bed plate from tilting while the upper roller is at the top, please fit the locking plates enclosed (4 pcs.) as shown on the illustration.

- 12.**
Mount the star wheel with 3 M6 screws.



- 13.**
Fit the locking system. The press is locked by placing one of the “arms” of the star wheel in the lock-arm.

- 14.**
Wipe all “shiny” parts with a dry cloth.
You can remove the oil film on these parts by wiping with a cloth wrung in turpentine.

Your press is now ready for use!

Sliding of the lower roller:

If the lower roller slides during printing, rub the lower roller and the under side of the table bed with resin.

First, open windows. Then, use solvents to remove the oil from the lower roller and the bed plate. A last rub the roller and the plate with natural resin.



Litho-press

The assembly of a litho-press and an etching press is similar, but instead of mounting an upper roller the litho-upper part is to be mounted.



15.
Mount the litho-upper part on the frame with 4 M10 screws and washers.



16.
A litho-press is delivered with one small and one big wooden bar. As well as a 25 mm plywood plate to place on top of the bed plate to compensate for the height difference.



17.
The pressure is adjustable by turning the “shiny” wheel. The pressure is made by operating the red lift-arm.

Turn back to fig. 8 in this instruction.

Tightening the chain

When your etching press has been used for a long period of time, it may be necessary to tighten the chain to ensure the optimal printing precision.

It is a simple procedure that does not require much time or effort:



- 18.** Loosen the screw by the transverse iron bar behind the guard plates in both sides.



- 19.** Tighten the bolt below the transverse iron bar with a ring spanner until the chain is tight. Retighten the bolt behind the guard plates.

Maintenance

TofKo Litho- and Etching Presses are specially designed to keep cleaning and maintenance to an absolute minimum.

The slide bearings are self-lubricating for which reason they are in no need of special attention. We do recommend, that you oil all moveable parts regularly with acid-free oil (eg. sewing machine oil).

On some of our press types, you will find small red-painted dots. On and around these dots, you must oil every six months.



Moreover it is important to keep all polished parts/surfaces clean and dry to prevent them from rusting. The press must immediately be wiped off with a dry cloth if it gets wet.

Please do not store the press in damp surroundings.

If the press is not used for a longer period of time, we recommend that you protect all polished parts/surfaces with acid-free oil .