

HAND LOOMS &  
WEAVING EQUIPMENT

# Toika

shop.toika.com



WEAVING



SPINNING

TUFTING

MADE IN  
FINLAND  
SINCE  
1898



# Toika

TOIKA is a family business, founded in 1898. For several decades it has been one of the leading manufacturers of weaving equipment in the world. The fifth generation is now taking part in its operations.

Experience and continuity are the values which we consider important in the manufacture of our weaving equipment. We think that every item should be both functional and estetically pleasing. The high quality of TOIKA looms is recognized all over the world.

All TOIKA looms are made of high quality, selected Finnish birch, which has been both air-dried and kiln dried. Parts subject to bending are laminated for extra strength. A distinguishing feature of TOIKA looms is the use of a special varnish in the finishing process which preserves the original light colour of the hardwood. All TOIKA looms are guaranteed for 1 year against defects in material and workmanship.

Toika is an authorized **aShford** dealer.  
WHEELS & LOOMS

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### TOIKA OY

Hahttilantie 4  
37800 AKAA  
FINLAND

Tel. +358 (0)3 542 1095  
Email: [info@toika.com](mailto:info@toika.com)  
[shop.toika.com](http://shop.toika.com)

## EEVA (4322-4398)

The Eeva loom is a large traditional Scandinavian countermark loom for weaving all kinds of projects from light transparent fabrics to heavy rugs. Eeva is usually equipped with a hanging beater, but an underslung can be ordered. The warp beam, complete with holders, can easily be detached from the standard Eeva without the need to dismantle the loom. A traditional 2-legged bench is standard on the Eeva although the adjustable bench may be substituted. Eeva can be equipped with 4, 8 or 12 shafts.

Weaving width	Total width	Weight
80 cm	117 cm	100 kg
100 cm	137 cm	110 kg
120 cm	157 cm	120 kg
150 cm	187 cm	130 kg
Height	Depth	With bench
170 cm	150 cm	185 cm

Weaving width	Total width	Weight
31 ½"	46 ⅛"	220 lbs
39 ⅜"	53 ⅞"	240 lbs
47 ¼"	61 ¾"	265 lbs
59"	73 ⅝"	285 lbs
Height	Depth	With bench
66 ⅞"	59"	72 ⅞"



The large side opening allows for easy access to warp and tie-up.

Both the adjustable Eeva bench and the handy cog wheel warp tensioning system shown in the picture are popular options for Eeva.



The Liisa loom can be fitted with a variety of supplementary equipment.

A traditional 2-legged bench is standard on the Liisa although the adjustable Eeva bench may be substituted.



## LIISA (4122-4198)

Liisa is descended from the original Toika and is a solid and reliable countermarch loom. The cog wheel warp tensioning system shown in the picture is standard for Liisa. While Liisa usually is shipped with an underslung beater, an overhead beater kit is available as an option. Liisa is solid enough for a steady diet of rugs, yet gentle enough for a sheer transparent fabric.

Liisa can be equipped with 4, 8 or 12 shafts.

Weaving width	Total width	Weight
80 cm	117 cm	90 kg
100 cm	137 cm	100 kg
120 cm	157 cm	110 kg
150 cm	187 cm	120 kg
Height	Depth	With bench
153 cm	136 cm	170 cm

Weaving width	Total width	Weight
31 1/2"	46 1/8"	200 lbs
39 3/8"	53 7/8"	220 lbs
47 1/4"	61 3/4"	240 lbs
59"	73 5/8"	265 lbs
Height	Depth	With bench
60 1/4"	53 1/2"	66 7/8"



## JAANA (4284-4298)

Jaana is a very compact loom and because of its smaller overall dimensions, allows a full counter-march loom in smaller room or apartment situations. Jaana has all of the traditional Toika sturdiness, yet has a convenient and pleasantly low working height. Jaana can be equipped with a hanging or underslung beater and 4 or 8 shafts.



Jaana comes with a traditional 2-legged Laila bench, but an adjustable Eeva bench can be substituted.

Weaving width	Total width	Weight
80 cm	117 cm	70 kg
100 cm	137 cm	80 kg
Height	Depth	With bench
128 cm	117 cm	158 cm

Weaving width	Total width	Weight
31 1/2"	46 1/8"	154 lbs
39 3/8"	53 7/8"	175 lbs
Height	Depth	With bench
50 3/8"	46 1/8"	62 1/4"



The dimension of the Jaana loom is based on ergonomic factors and ensures a convenient and pleasantly low working height.

Toika ES Computer Assist can also be installed on Jaana, as shown in the picture.



## WELCOME TO ELEGANT SIMPLICITY - the wonderful world of Computer Assist Weaving!

The new Toika ES+ computer control units enable all weave structures, allowing you to weave complex patterns without having to change the loom's setup. The ES+ series gives you a fast and powerful product for your weaving enjoyment.

ES+ Computer Assist Looms are offered 16 shaft, 24 shaft and 32 shaft configurations. Traditional weaving looms are based on treadles, lamms and jacks. Your Toika ES+ computer assist loom replaces all of those parts with a single pedal – much like that on a sewing machine. The pedal means that the weaver requires no strain or effort to lift multiple shafts.

Like the older ES model, the ES+ is built with durable, long-lasting components ensuring a long working life and easy maintenance. The ES+ offers enhanced control options, including wireless operation via WLAN with smart devices and a graphical user interface that can be used with an external display through an HDMI cable and a wireless mouse. The ES+ model can also be operated, just like its predecessors, via USB cable using WeavePoint and similar software. The unit has a direct connection to the USB port – just plug it in, turn on the loom and the computer and the weaver is ready to go.

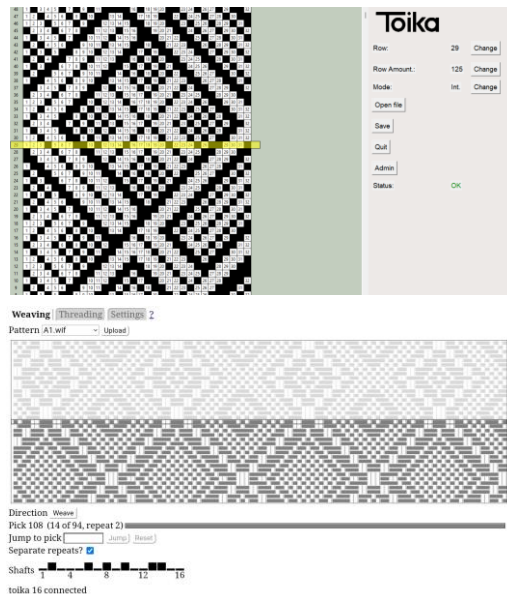


The ES+ control unit, contained in a sleek and beautifully designed outer case, is directed by the computer and software to select the appropriate shafts and open the shed automatically. The shed is a true countermarch – the shafts that are programmed to rise do rise and those that are programmed to sink do sink. Sheds are also even throughout as the ES+ unit automatically compensates for the shafts that are farthest from the weaver.

ES+ units also allow the weaver to select from three weaving modes. Fast mode closes the shed on one pick and opens the next one with a pedal press. Slow mode opens the shed with one press of the pedal and closes the shed with another. Normal mode opens the shed and allows it to stay open as long as the pedal stays pressed. If the weaver wants to unweave, there is a reverse mode.

The new ES+ series allows the weaver to spend more time planning projects and designing fabrics while essentially eliminating treading and tie up errors.

Toika ES+ units can also be installed on practically all manual Toika looms so that owners can enjoy computer assisted weaving. And many other brands of Scandinavian type looms can be fitted with the ES+ system as well.



Toika computer assist looms have always been quiet; the new ES+ series is even quieter.

Easy to install on almost any countermarch loom!

Watch the video!





## LAILA (4183)

The Laila loom is designed for weavers who do not have enough space for a very large loom or who want an additional loom for sampling or experimental projects. The Laila loom is suitable for weaving all types of fabrics except rugs.

Laila can be folded with the warp in place and it occupies very little space when being stored or transported. Laila comes equipped with 4 or 8 shafts.

The Laila bench (4186), which is especially proportioned for this loom, is available separately.

Weaving width		Total width	Weight
70 cm		103 cm	30 kg / 32 kg
Height	Depth	With bench	Depth folded
120 cm	85 cm	115 cm	60 cm

Weaving width		Total width	Weight
27 ½"		40 ½"	66 lbs / 70 lbs
Height	Depth	With bench	Depth folded
47 ¼"	33 ½"	45 ¼"	23 ⅝"



Laila is a small counterbalance loom that can be folded even with the warp in place.



## LEENA (4311)

Leena is a table loom for weaving light items such as scarves, table runners, pillowcases, towels, small rya rugs, etc. Table looms are especially useful for teaching, sampling, and in small house situations where space is at a premium.

The shafts are raised by top mounted locking action levers which are light and smooth in operation. The beater slides evenly on a rail allowing a steady beat. Leena is available at 60 cm (23  $\frac{5}{8}$ " ) weaving width with 8 shafts. The loom is delivered with a reed, 400 heddles, cord & pegs for tie-up and 2 flat shuttles.



Weaving width	Total width	Weight
60 cm	73 cm	15 kg
	Height	Depth
	64 cm	79 cm

Weaving width	Total width	Weight
23 $\frac{5}{8}$ "	28 $\frac{3}{4}$ "	33 lbs
	Height	Depth
	25 $\frac{1}{4}$ "	31 $\frac{1}{8}$ "



Leena can be mounted on a table or on a loom stand (4112) available as an optional extra.

The Laila bench is suitable for the Leena mounted on the loom stand.



LOOM STAND	
Height	Weight
55 cm	2 kg
21 $\frac{5}{8}$ "	4.5 lbs



Weaving width	Total width	Weight
55 cm	82 cm	19 kg

Weaving width	Total width	Weight
22"	32 1/4"	42 lbs

Height	Height folded	Depth	Depth folded
108 cm	119 cm	83 cm	32 cm
42 1/8"	46 7/8"	32 1/4"	13"

## ANNI WORKSHOP LOOM (4524)

The Anni workshop loom is the perfect loom for a beginning weaver. Anni is a 4 four shaft, four treadle direct tie-up loom with a weaving width of 55 cm (22"). The loom is delivered assembled.

Made with a scissors leg arrangement, the Anni loom conveniently folds for easy, compact storage and transport – even when warped.

The wheels on the back legs make it easier to move the loom. There is a handy shelf on top of the loom for weaving accessories.

A detachable second warp beam is available.

Anni is a compact loom that folds for travel and storage – even when warped.

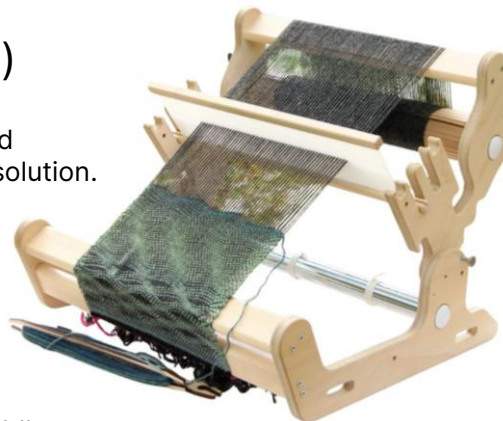


## SIRU RIGID HEDDLE LOOM (41400 & 41600)

The Siru rigid heddle loom is an excellent choice for both beginner and hobby weavers looking for a simple, compact, and portable weaving solution.

Available in two weaving widths – 40 cm (15.7") and 60 cm (23.6") Siru is perfect for creating scarves, table runners, placemats, and other small textiles. The loom is crafted from solid wood and designed for table-top use.

Siru is easy to assemble and simple to operate, making it ideal for workshops, classes, and home studios with limited space. Its rigid heddle design allows for quick warping and weaving without tie-ups and treadles. Each loom includes one reed, two stick shuttles, a warping peg, and clamps – everything you need to start weaving except for the yarn.



## LOOM BENCHES: EEVA, LIISA and LAILA

The adjustable Eeva benches come in two sizes and fit all the Toika looms. The Laila bench fits the Laila and Jaana looms as well as the Leena table loom on a stand. The non-adjustable Liisa benches fit both the Liisa and Eeva looms.

Item #	Bench	Width	Height	Width	Height
4466	EEVA 60	60 cm	56 - 69 cm	23 5/8"	22" - 27 1/8"
4488	EEVA 80	80 cm	56 - 69 cm	31 1/2"	22" - 27 1/8"
4186	LAILA	50 cm	58 cm	19 5/8"	22 7/8"
4450	LIISA 50	50 cm	67 cm	19 5/8"	26 3/8"
4480	LIISA 80	80 cm	67 cm	31 1/2"	26 3/8"



**COG WHEEL WARP RELEASE SYSTEM** (1445, EEVA and LIISA): With this useful device the weaver can release and control the warp tension without getting up from the bench.

**SECTIONAL WARP BEAM** (1451-1458, EEVA, LIISA and JAANA):

When you are using a sectional warp beam, you wind the warp direct to the beam in sections. A sectional warp beam is a standard beam mounted with four rails, which have metal loops every two centimeters (or 1") for dividing the warp into sections. The measure around the sectional warp beam is 75 cm (29 ½"). Sectional rails are also available separately.



**TENSION BOX FOR SECTIONAL WARPING** (44912): For sectional warping a tension box is needed to keep the warp ends taut and in order. The box is fastened to the back beam of the loom. One of the warp ends goes round the tension box's counter to give the length of the warp. In case you need to undo part of the warp, the counter will compensate for the length undone.

**DOUBLE WARP BEAM AND DOUBLE BACK BEAM** (4308-4408, EEVA and LIISA):

An extra warp beam can be fastened to the Eeva and Liisa looms, enabling you, for instance, to create warp patterns. Any loom with two warp beams should also have two back beams to prevent the yarns from clinging to each other. The Eeva loom in the picture is equipped with a double warp beam and a double back beam and the cog wheel warp tensioning system for both warp beams.



**FLY SHUTTLE DEVICE** (4320-4321, EEVA and LIISA):

A fly shuttle device increases the speed of weaving. The device is attached to the beater. It can be fitted to a Liisa or Eeva loom with weaving width 100, 120 or 150 cm (39 ¾", 47 ¼" or 59") with hanging or underslung beater. A special fly shuttle is used with the fly shuttle device.

The fly shuttle device for the hanging beater is in one piece and for the underslung beater in two pieces.





**BEAM APRONS** (1400-1492): Beam aprons are available for looms in all sizes. We deliver beam aprons with finished edges and, on request, with eyelets for cords.



**FABRIC PROTECTOR** (4411, EEVA, LIISA and JAANA): The fabric protector is fastened in front of the breast beam to protect the woven cloth.

**WARP STICKS** (4100-4190): Warp sticks are available in weaving widths 55 cm (Anni), 60 (Leena), 70, 80, 100, 120, 150 and 185 cm (21  $\frac{21}{32}$  (Anni), 23  $\frac{5}{8}$ " (Leena), 27  $\frac{1}{2}$ ", 31  $\frac{1}{2}$ ", 39  $\frac{3}{8}$ ", 47  $\frac{1}{4}$ ", 59" and 72  $\frac{7}{8}$ "). They are delivered in bundles of 25 or 50 pcs.



**RUBBER FEET** (1160, EEVA and LIISA): Rubber feet prevent the loom from sliding on the floor. Size 42 x 120 mm (1  $\frac{5}{8}$ " x 4  $\frac{3}{4}$ "). They are included in the delivery of a new Eeva or Liisa loom.



**RUBBER STOPPERS** (1161, EEVA, LIISA and JAANA): Rubber stoppers prevent the beater from hitting the side parts of the loom, when using an underslung beater. These are mounted in pre-drilled location holes in the side frames.



**LOCKING DEVICE FOR TWO EXTRA LONG TREADLES** (1118, EEVA and LIISA): This device is used for locking treadles in a wide loom together with extra long treadles. It is fastened on the front rail and holds two extra long treadles.



**HOLDERS FOR SHAFTS** (1446, EEVA and LIISA): Hang these holders at the back of your loom to keep extra shafts, treadles, lamms and warp sticks in order.





### **TRADITIONAL REEDS** (3020060-3120200):

Toika has been making reeds for almost 130 years. Today reeds are made of stainless steel but are made in the traditional way using the best possible raw materials. Specially treated yarn is used as a binder to keep the dents in place. The height of the standard reed is 12 cm (4 ¾"). The reeds are packed in plastic covers and thus protected against dust and humidity during storage and transport. Please specify length and number, when ordering a reed. Reed number indicates the number of dents in 10 cm (Europe) or per inch (USA).



### **PROFILE REEDS** (6020-6070, 7020-7099)

Profile reeds are manufactured of stainless steel and aluminium. They are the latest in reed technology. The height of the standard profile reed is 12.5 cm (5"). These are extra sturdy reeds for hard use and easy storage. Order by length and dents per 10 cm or inch.

Standard reed numbers (dents/10 cm) are 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90 and 100. Standard reed numbers (dents/inch) are 5, 6, 8, 9, 10, 11, 12, 15, 18, 20, 22 and 25. Standard lengths are 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 185 and 200 cm (from 23 ⅝" to 78 ¾").

On request we also manufacture numbers and lengths other than the above mentioned. It is also possible to make reeds of different heights.

### **REED STAND** (3001)

The reed stand neatly organizes and stores a variety of different reeds in a standing position. The varnished stand holds over 50 reeds.





### **RADDLE, model A (3155-3300)**

Raddle A is an open reed, which is inserted in the beater for beaming. The height is 8 cm (3 1/8") and pin length 6 cm (2 3/8"). The distance between pins is 1 cm (3/8"). Available in all widths.

### **RADDLE WITH CAPE, model B (3060-3150)**

Raddle B is covered with a cape. It is suspended from the back side of the castle with cords when beaming. The raddle height without cape is 10.5 cm (4 1/8") and with cape 13.5 cm (5 3/8"). The distance between pins is 1 cm (3/8"). Available in weaving widths 60, 80, 100, 120 and 150 cm (23 5/8", 31 1/2", 39 3/8", 47 1/4" and 59").

### **BOBBIN WINDER (1418-1419)**

- \* weight 430 g (15 oz), rotation ratio 1:18, brass wheel
- \* with normal B (1418) or heavy spindle B2 (1419)



### **TEHO ELECTRIC BOBBIN WINDER (3410)**

- \* weight about 3 kg (6 1/2 lbs)
- \* the bobbin winder is mounted on a heavy wooden base block
- \* the electrical bobbin winder is delivered with a clamp, a wooden motor support and an adjustment key
- \* power 90 W, electricity 220 V



### **BALL WINDER (1964)**

- \* handy tool for weavers and knitters
- \* winds approximately 100 g (4 oz) balls



## METAL STRETCHERS

Stretchers or temples are used for keeping the fabric edges straight. Metal stretchers are easy to adjust and because of the strength of steel, cover very little of your warp, resulting in fewer movements and more visibility. Our stretchers are made of steel and lengths range from 15 cm to 240 cm (5  $\frac{7}{8}$ " to 94  $\frac{1}{2}$ ").

Metal pin plates, plastic locking pieces and point protectors are available also separately in two sizes: small for stretchers with first size 15-90 cm (5  $\frac{7}{8}$ " – 35  $\frac{3}{8}$ ") and large for stretchers with first size 100-150 cm (39  $\frac{3}{8}$ " – 59").

Item #	Size (cm)	Colour	Size (inches)
3505	15 - 20 cm	yellow	5 $\frac{7}{8}$ – 7 $\frac{7}{8}$ "
3520	20 - 27 cm	orange	7 $\frac{7}{8}$ – 10 $\frac{5}{8}$ "
3525	25 - 32 cm	green	9 $\frac{7}{8}$ – 12 $\frac{5}{8}$ "
3530	30 - 43 cm	red	11 $\frac{7}{8}$ – 16 $\frac{7}{8}$ "
3540	40 - 60 cm	violet	15 $\frac{3}{4}$ – 23 $\frac{5}{8}$ "
3550	50 - 70 cm	blue	19 $\frac{3}{4}$ – 27 $\frac{1}{2}$ "
3560	60 - 95 cm	green	23 $\frac{5}{8}$ – 37 $\frac{3}{8}$ "
3570	70 - 105 cm	yellow	27 $\frac{1}{2}$ – 41 $\frac{3}{8}$ "
3580	80 - 130 cm	orange	31 $\frac{1}{2}$ – 51 $\frac{1}{8}$ "
3590	90 - 150 cm	red	35 $\frac{3}{8}$ - 59"
3510	100 - 160 cm	violet	39 $\frac{3}{8}$ - 63"
3512	120 - 190 cm	blue	47 $\frac{1}{4}$ - 74 $\frac{3}{4}$ "
3515	150 - 240 cm	green	59 – 94 $\frac{1}{2}$ "



Spare parts are available separately.



**RUG SHUTTLES, WOODEN (1630-1670)**

- \* varnished, wooden rug shuttles
- \* lengths 30, 40, 50, 60 and 70 cm (11  $\frac{7}{8}$ ", 15  $\frac{3}{4}$ ", 19  $\frac{3}{4}$ ", 23  $\frac{5}{8}$ " and 27  $\frac{1}{2}$ ")

**STICK SHUTTLES (4620, 4625 & 4650)**

- \* lengths 20, 30 and 50 cm (7  $\frac{7}{8}$ ", 11  $\frac{7}{8}$ " and 19  $\frac{3}{4}$ ")

**OPEN BOTTOM BOAT SHUTTLES WITH ROLLERS**

- \* varnished shuttle with rollers (4632, 4638 and 4642)
- \* lengths 32, 38 and 42 cm (12  $\frac{5}{8}$ ", 15" and 16  $\frac{1}{2}$ ")

**DOUBLE SHUTTLE (4644)**

- \* varnished shuttle with rollers for two bobbins
- \* length 40 cm (15  $\frac{3}{4}$ ")

**FLY SHUTTLE (4652)**

- \* wooden shuttle with metal tips and rollers
- \* length 37 cm (14  $\frac{5}{8}$ ")
- \* Quills 1656 fit the fly shuttle

**POPPANA SHUTTLE**

- \* varnished rug shuttle with disk (4640)
- \* length 40 cm (15  $\frac{3}{4}$ ")

**CLOSED BOTTOM BOAT SHUTTLES**

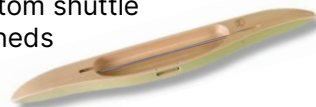
- \* varnished shuttle without rollers (4622, 4628 and 4634)
- \* lengths S 22, M 28 and L 34 cm (8  $\frac{5}{8}$ ", 11" and 13  $\frac{3}{8}$ ")

**YARN SHUTTLE (4633)**

- \* varnished closed bottom shuttle without rollers
- \* length 32 cm (12  $\frac{5}{8}$ ")

**DAMASK SHUTTLE (4635)**

- \* low, varnished closed bottom shuttle without rollers for small sheds
- \* length 32 cm (12  $\frac{5}{8}$ ")

**QUILLS (1632 & 1656)**

- \* made of cardboard, length 11.5 cm (4  $\frac{1}{2}$ ")
- \* 1632 quills for bobbin winder B with normal spindle (1418)
- \* 1656 quills for bobbin winder B2 with heavy spindle (1419) and Teho (3410)



## WARPING MILLS (4720, 4730 & 4740)

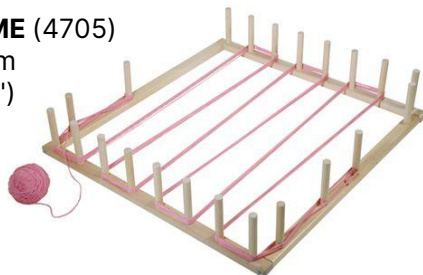
- \* vertical floor model, varnished
- \* ball bearings ensure smooth rotation
- \* the boards holding the lease pegs can be locked into any position
- \* the wooden frame can be detached and folded to take little storage space
- \* the warping mill can also be dismantled to take even less storing space
- \* sturdy stand with adjustable legs and metal stays to ensure stability

Item #	Circumf.	Height	Weight
4720	2 m	120 cm	27 kg
4730	3 m	150 cm	35 kg
4740	4 m	180 cm	43 kg

Item #	Circumf.	Height	Weight
4720	78 ¾"	47 ¼"	60 lbs
4730	118 ⅛"	59"	78 lbs
4740	157 ½"	70 ⅞"	96 lbs

## WARPING FRAME (4705)

- \* size 90 x 90 cm (35 ⅜" x 35 ⅜")
- \* 22 pegs



## WARPING PEGS (4710)

- \* suitable for short and narrow warps
- \* clamps are included for mounting



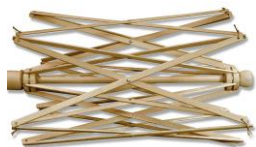
## WARPING PADDLE (4741)

- \* 24 holes, wood
- \* warp multiple ends at once



### FOLDING SWIFT A (3710)

- \* wooden axle and slats



### FOLDING SWIFT B (3730)

- \* metal axle and slats of metal and cord



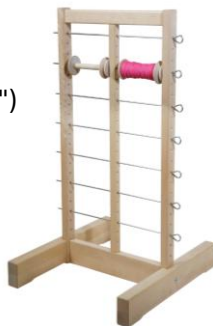
### UPRIGHT SWIFT (4750)

- \* can hold two skeins simultaneously (two extra rollers required)
- \* height 140 cm (55 1/8")
- \* width 40 cm (15 3/4")
- \* weight 5 kg (11 lbs)
- \* width of rollers 24 cm (9 1/2")



### SPOOL RACK (4714)

- \* sturdy floor model, varnished
- \* height 82 cm (32 1/4")
- \* width 45 cm (17 3/4")
- \* distance of rods 9.5 cm (3 3/4")
- \* spool space 16.5 cm (6 1/2")
- \* holds 14 spools (1770)



### SPOOLS (1770)

- \* length 15.5 cm (6 1/8")
- \* yarn space 11.5 cm (4 1/2")

### SWIFT STAND (4724)

- \* sturdy floor model
- \* holds four folding swifts
- \* height 170 cm (67")



### CONE STAND (4760)

- \* varnished, holds 10 cones
- \* distance of rods 15 cm (5 7/8")
- \* length 113 cm (44 1/2"), height 122 cm (48") and depth 50 cm (19 5/8")
- \* its design ensures smooth unwinding of yarn from cones
- \* two guides for each yarn



## LINEN TIE-UP CORD

- \* linen cord for the tie-up of a loom



## TIE-UP CORD SET (18500)

- \* holds a cone of 50 m (19 5/8") polyester cord and 50 straight and 50 anchor pegs
- \* the pegs replace the knots in linen cords
- \* instructions are included in the package
- \* polyester cord and pegs are also available separately



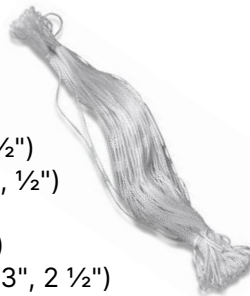
## READY CUT TIE-UP KITS

The tie-up kits include pre-cut cords, anchor pegs and instructions in colours.

- \* LIISA 4, 8 or 12 shafts, countermarch (1842-1844)
- \* EEVA 4, 8 or 12 shafts, countermarch (1846-1848)
- \* JAANA 4 or 8 shafts, countermarch (1840-1841)
- \* LAILA 4 or 8 shafts, countermarch (18494 & 18498)
- \* EEVA 4 shafts, counterbalance (1866)

## POLYESTER HEDDLES

- \* machine made, non-stretching and durable
- \* delivered in bundles of 100 pieces
- \* heddles (1815): 16 cm/1.2 cm (6 1/4", 1/2")
- \* heddles for Leena table loom (1820): 22 cm/1.2 cm (8 5/8", 1/2")
- \* heddles for workshop looms (1826): 26.8 cm/1.2 cm (10 1/2", 1/2")
- \* heddles for floor looms (1828): 28 cm/1.2 cm (11", 1/2")
- \* heddles for computer looms (1834): 33 cm/1.2 cm (13", 1/2")
- \* long-eyed heddles for draw looms (1833): 33 cm/6.4 cm (13", 2 1/2")
- \* pattern heddles for draw looms (1854): 54 cm/1.2 cm (21 1/4", 1/2")



## HEDDLE BLOCK (1860)

- \* for making heddles of size 30 cm/2 cm (11 3/4", 3/4")





**REED HOOK (3909-3910)**

- \* for sleying
- \* made of plastic (3909) or fiberboard (3910)

**REED & HEDDLE HOOK, TEXSOLV (3911)**

- \* for sleying and threading heddles

**THREADING HOOK (3905)**

- \* for threading the loom cord
- \* easy-grip wooden handle

**HEDDLE HOOK (3920)**

- \* for threading the warp ends through the heddles

**TAPESTRY BOBBIN (3900)**

- \* made of fiberboard
- \* for making rya rugs, tapestries or transparencies

**TAPESTRY FORK (4113)**

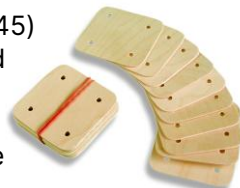
- \* easy-grip wooden handle with metal needles
- \* for making tapestries

**BAND REED (4940-4942)**

- \* varnished, height 17,5 cm (6 7/8")
- \* small (4940): width 19 cm/59 ends (7 1/2")
- \* large (4941): width 41 cm/123 ends (16 1/8")

**BAND BRICKS (4945)**

- \* made of plywood
- \* size 7 x 7 cm (2 3/4" x 2 3/4")
- \* 10 pieces/bundle

**BAND HOLDERS (4945)**

- \* small (4943)
- \* large (4944)

**HAND CARDERS (3092)**

- \* hand carders with rubber bottom
- \* curved backs and easy-grip handles
- \* size of toothed surface appr. 10 x 19 cm (3 7/8" x 7 1/2")

**SKEIN WINDER (1760)**

- \* for winding yarn into skeins
- \* height 100 cm (39 3/8")
- \* diameter of skein 60 cm (23 5/8")
- \* weight approx. 3 kg (6 1/2 lbs)



### LINEN TOW YARN (1910)

- \* 100 % flax tow, Nel 6, 280 tex
- \* wet-spun,
- \* cone 250 g/960 m,  
(8.82 ounces/1050 yd)



### FINNISH SEINE TWINE, 100 % cotton

#### 6-ply, 30x6 tex, Ne 20/6

- \* 500 g/appr. 2650 m, (1.1 lbs/2898 yd),  
in colours (1866)
- \* 1.8 kg (3.97 lbs), in raw white & black (1867)



#### 12-ply, 30x12 tex, Ne 20/12

- \* 500 g/appr. 1280 m (1.1 lbs/1400 yd)  
(1862) or 1.8 kg (3.97 lbs) (1868)
- \* in raw white, linen beige & black



#### 15-ply, 30x15 tex, Ne 20/15

- \* 500 g/appr. 1010 m (1.1 lbs/1104 yd)  
(1865) or 1.8 kg (appr. 3.97 lbs) (1869)
- \* in raw white, linen beige & black



### POPPANA (1881)

- \* bias-cut cotton fabric
- \* 40-80 g/roll or 500 g/colour

### PAPER: CORD, YARN AND TAPE

- \* cord (0.8), 1140 tex, 200 g/175 m (0.44 lbs/191 yd)
- \* thin yarn (1.65), 547 tex, 100 g/180 m  
(0.22 lbs /196 yd)
- \* tape (0.8, flat), 100 g/92 m (0,22 lbs/100 yd)



### MERCERIZED COTTON 10/2

- \* 59x2 tex (10/2), 450 g/3813 m, (1 lb/4200 yd),  
natural, white & black (1875)

### MERCERIZED COTTON 5/2

- \* 118x2 tex (5/2), 450 g/1906 m,  
(1 lb/2100 yd), in colours (1896)
- \* in colours (1896)



### BAMBOO 5/2 (1820)

- \* 100 % rayon from bamboo
- \* 118 x 2 tex (5/2)
- \* 450 g/1906 m (1 lb/2100 yd)



### CHENILLE (1892)

- \* 100 % rayon, 342 tex
- \* 450 g/1315 m (1 lb/1450 yd)



### TENCEL 8/2 (100 % lyocell)

- \* 74x2 tex, 8/2
- \* 450 g/3040 m, (1 lb/3360 yd)
- \* solid (1919)
- \* variegated and tonals (1920)



### JUTE, 500 g (1.1 lbs)

- \* thin jute yarn (1873), 330x2 tex  
500 g/760 m (1.1 lbs/831 yd)
- \* thick jute yarn (1874), 280x8 tex  
500 g/225 m (1.1 lbs/246 yd)



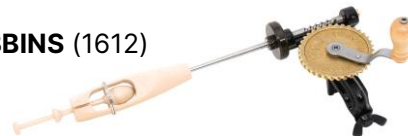
### LACE BOBBINS (1611)

- \* 10 pc/bundle
- \* length 11 cm (4 3/8")



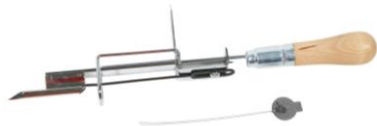
### DEVICE FOR FILLING LACE BOBBINS (1612)

- \* used with bobbin wider B with normal spindle (1418)



### HAND TUFTING TOOL (1625)

- \* Make tufted rugs, pillows and wall hangings easy and fast
- \* the loop length can be adjusted



### TUFTING FRAMES

- \* small 50x50 cm (1627)
- \* large 70x70 cm (1634)
- \* nail lists also available separately



### CLOTH FOR TUFTING (1628)

- \* 100 % polyester
- \* width 325 cm

### MILK GLUE FOR TUFTING (1626)

- \* 250 ml bottle







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