

DesignaKnit8

Interactive Knitting

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Interactive Machine Knitting: Introduction

DesignaKnit 8 Interactive Knitting is the ultimate shaping and stitch pattern control tool, obviating the need for mechanical charting and electronic patterning devices. This section of the program allows the user to follow row-by-row instructions displayed on the computer monitor. Interactive Knitting advises the user when to cast on, increase, decrease, place a marker, cast off and change colors. You can choose to knit a stitch pattern, a shape or a shape integrated with a stitch pattern.

Knitters who have the appropriate cable link to their machine can watch the screen update with each pass of the carriage or lock. When not linked to the computer, knitters may interface manually with Interactive Knitting, using the mouse or keyboard to move up rows. This simulation is particularly useful to check instructions before starting to knit.

If you have to leave your knitting, DesignaKnit 8 will remember where you were on the last piece or swatch you knit, even when the computer has been switched off; the program can keep track of knitting on different knitting machines, remembering the latest information for each knitting machine configured.

Getting Started

To open the section, click on the Interactive Knitting button on the main opening screen or, from within the program, on the button on the left-hand tool bar.

The appearance of the button will depend on which version of DesignaKnit you have:

DesignaKnit 8 Complete



DesignaKnit 8 Machine Pro &

DesignaKnit 8 Machine Standard



Choosing what to knit

As soon as the section opens you will see this dialogue:

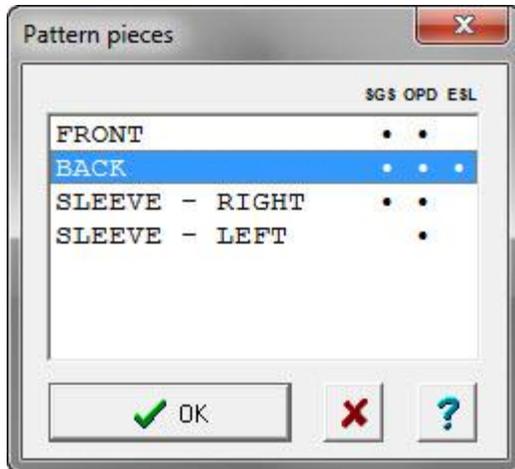
To knit from a shape file, whether as 'shape-only' or integrated with a stitch pattern, you need first to open the shape. Click on the Browse Shape Files button to open the Shapes Thumbnails browser, or if your file is listed below with the last five opened shape files, select it and click OK (or double click on the file name)

If you just want to knit a swatch - that is, a stitch pattern with no shape file attached, then click on the Browse Stitch Patterns button to open the Stitch Patterns Thumbnails browser, or, if your pattern is listed below with the last five opened stitch patterns, select it and click OK (or double click on the file name).

If you cancel the dialogue you can revive it by double clicking in the empty workspace.

Knitting a piece as Shape-only

As soon as you have selected the shape file you want from either the Thumbnails browser or the file list, you will be asked which piece you want to knit:



Select the piece you want and click **OK**.

Each piece is marked with information regarding its origin and any editing that has been done.

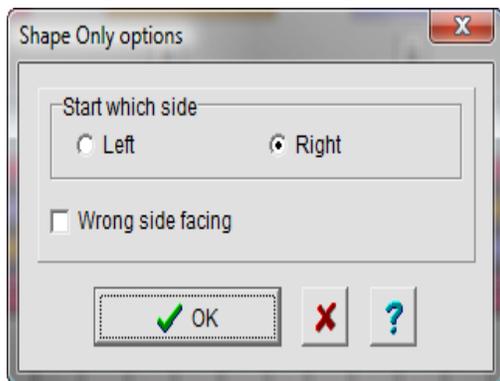
The pieces in this example show that three of them were originated in Standard Garment Styling and were later edited in Original Pattern Drafting. The Back has had modifications made with Exact Stitch Layout. The left sleeve piece was originated in Original Pattern Drafting.

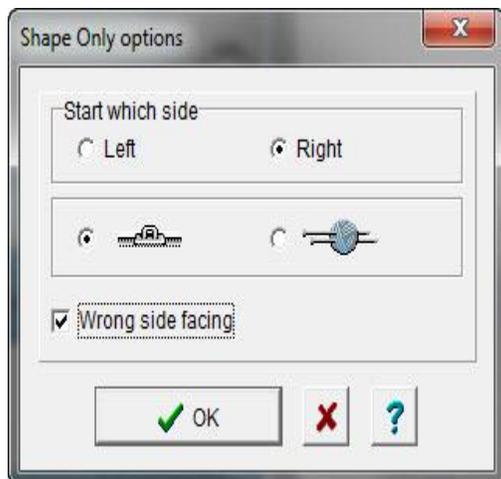
If the piece of the shape file has previously been associated with a stitch pattern, DesignaKnit will ask you to confirm whether you want to proceed to knit the integrated pattern or change to Shape-only.

Select Shape-only and click **OK**.

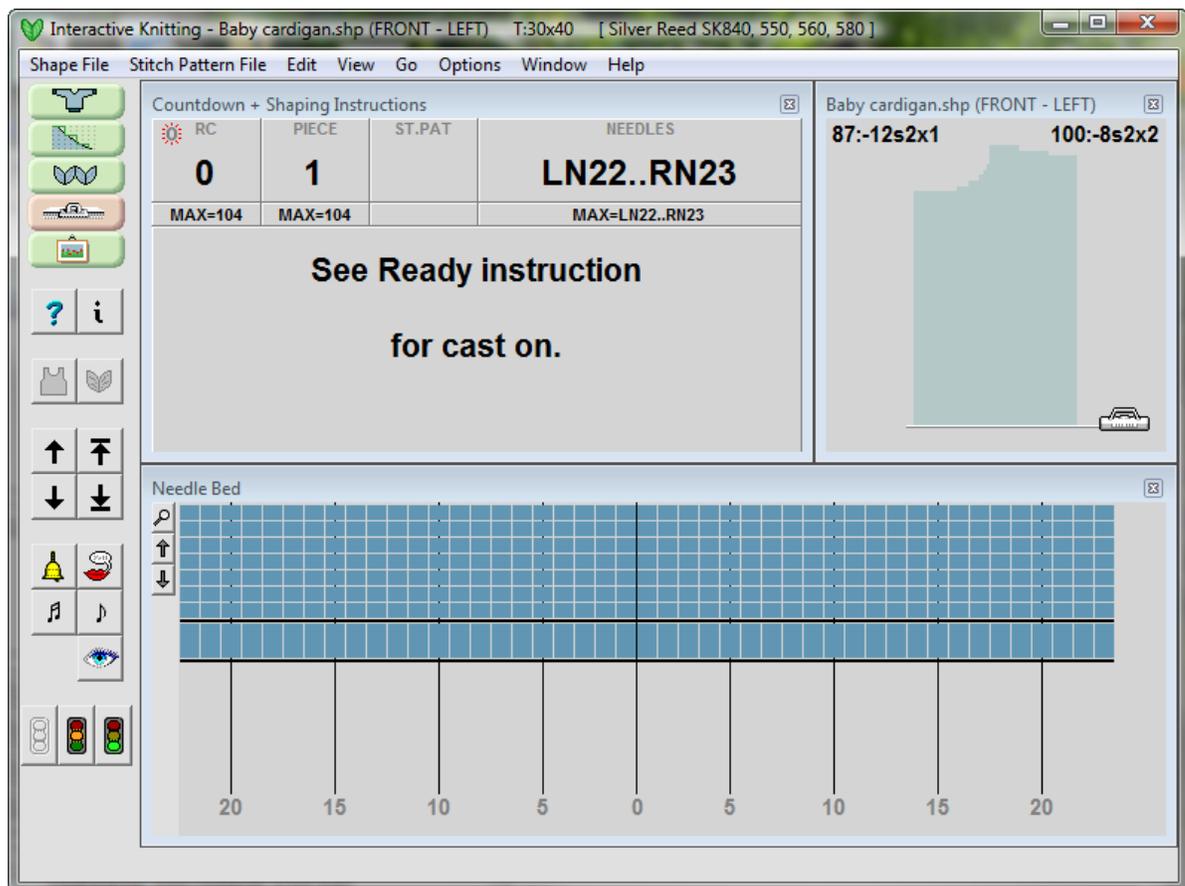
You will then be asked to confirm from which side of the needle bed you want the knitting to start and whether the 'wrong' side of the fabric will be facing you as you knit: this is so that DesignaKnit will know whether to flip the piece in order to have shaping instructions, such as multiple cast-offs, correctly synchronized with the carriage position.

The appearance of the dialogue will depend on whether you have one of the Machine Knit versions of DesignaKnit or the Complete version which also offers the opportunity to change to Hand Knitting.





The shape will then be opened in the Interactive Machine Knitting window, with the instructions you need to start knitting - or you can scroll through the pattern and see how to knit it.

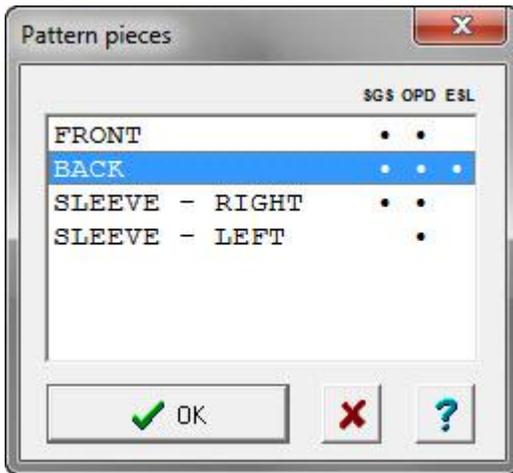


If you want to change to a different piece, choose **Shape File/Select Piece** from the menu bar.

If you want to change to a different shape file, choose **Shape File/Thumbnails** or **Shape File/Open Shape File** from the menu bar, or click on the Shape File Thumbnails button on the Tool Bar.

[Knitting a piece integrated with a stitch pattern](#)

As soon as you have selected the shape file you want from either the Thumbnails browser or the file list, you will be asked which piece you want to knit:



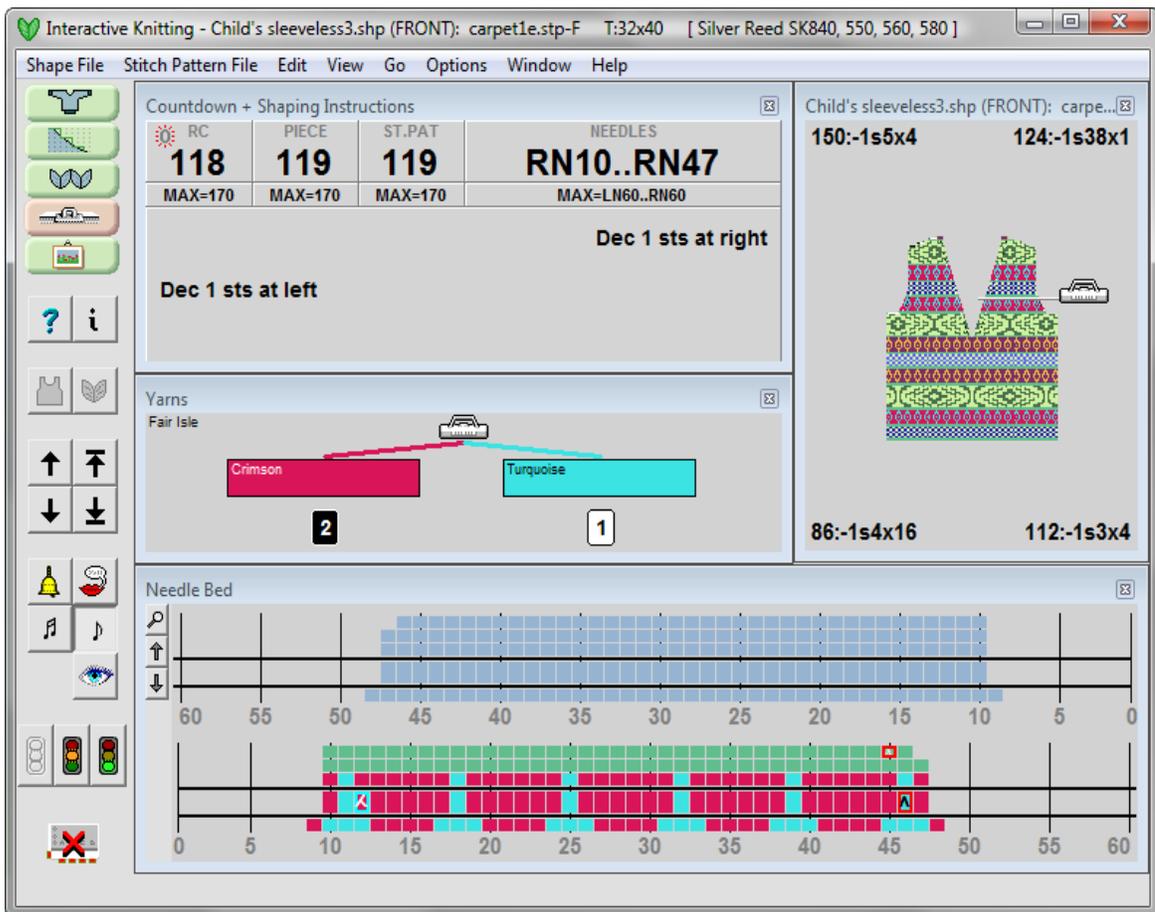
Select the piece you want and click **OK**.

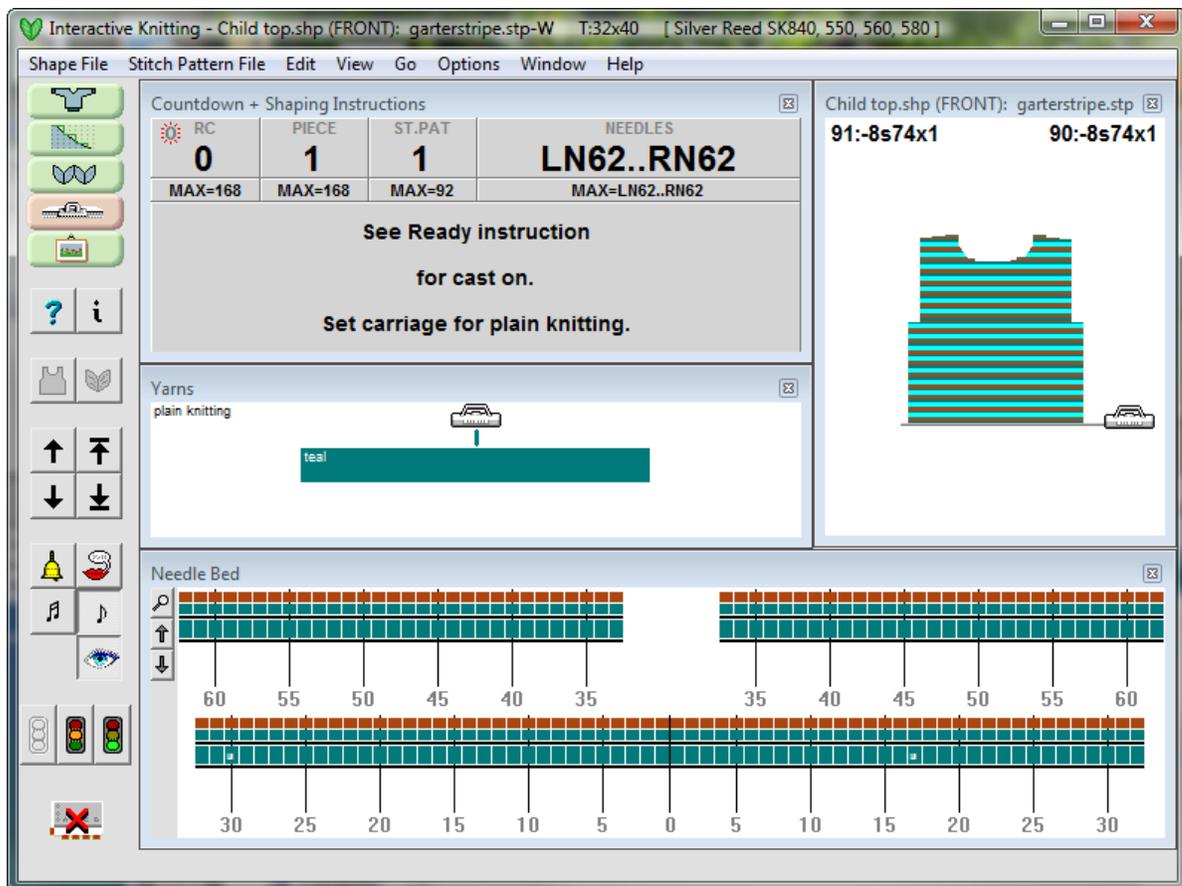
Each piece is marked with information regarding its origin and any editing that has been done.

The pieces in this example show that three of them were originated in Standard Garment Styling and were later edited in Original Pattern Drafting. The Back has had modifications made with Exact Stitch Layout. The left sleeve piece was originated in Original Pattern Drafting.

If the piece of the shape file has previously been associated with a stitch pattern, DesignaKnit will ask you to confirm whether you want to proceed to knit the integrated pattern or change to Shape-only.

Select Integrated with stitch pattern and click **OK**. The shape will then be opened in the Interactive Hand Knitting window, with the stitch pattern placed as it was saved and the instructions both in chart form and color and technique instructions so that you can follow the pattern exactly.





If you want to change to a different piece, choose **Shape File/Select Piece** from the menu bar.

If you want to change to a different shape file, choose **Shape File/Thumbnails** or **Shape File/Open Shape File** from the menu bar, or click on the Shape File Thumbnails button on the Tool Bar.

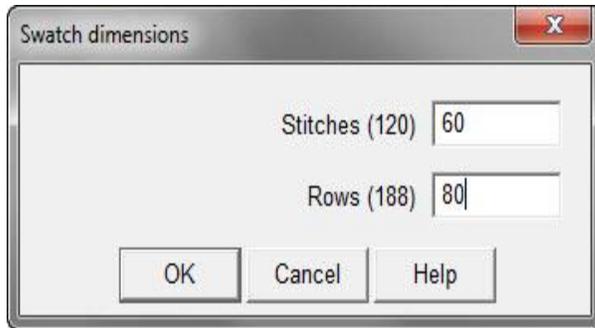
Knitting a stitch pattern only

When you knit a stitch pattern on its own - that is, not integrated with a piece from a shape file - it's referred to as a swatch.

Quite often a swatch is knit for the sole purpose of measuring the tension to make sure it is accurate for a shape design, but there are plenty of other reasons why you might just use a stitch pattern on its own including:

- Your project doesn't need shaping instructions!
- Modular knitting: constructing garments or items from rectangles or other components
- You have used Memo Symbols to create the shaping instructions
- Your pattern has been prepared for Cut and Sew.

.... or maybe you just want to check what happens in the stitch pattern, look for awkward color changes, etc.

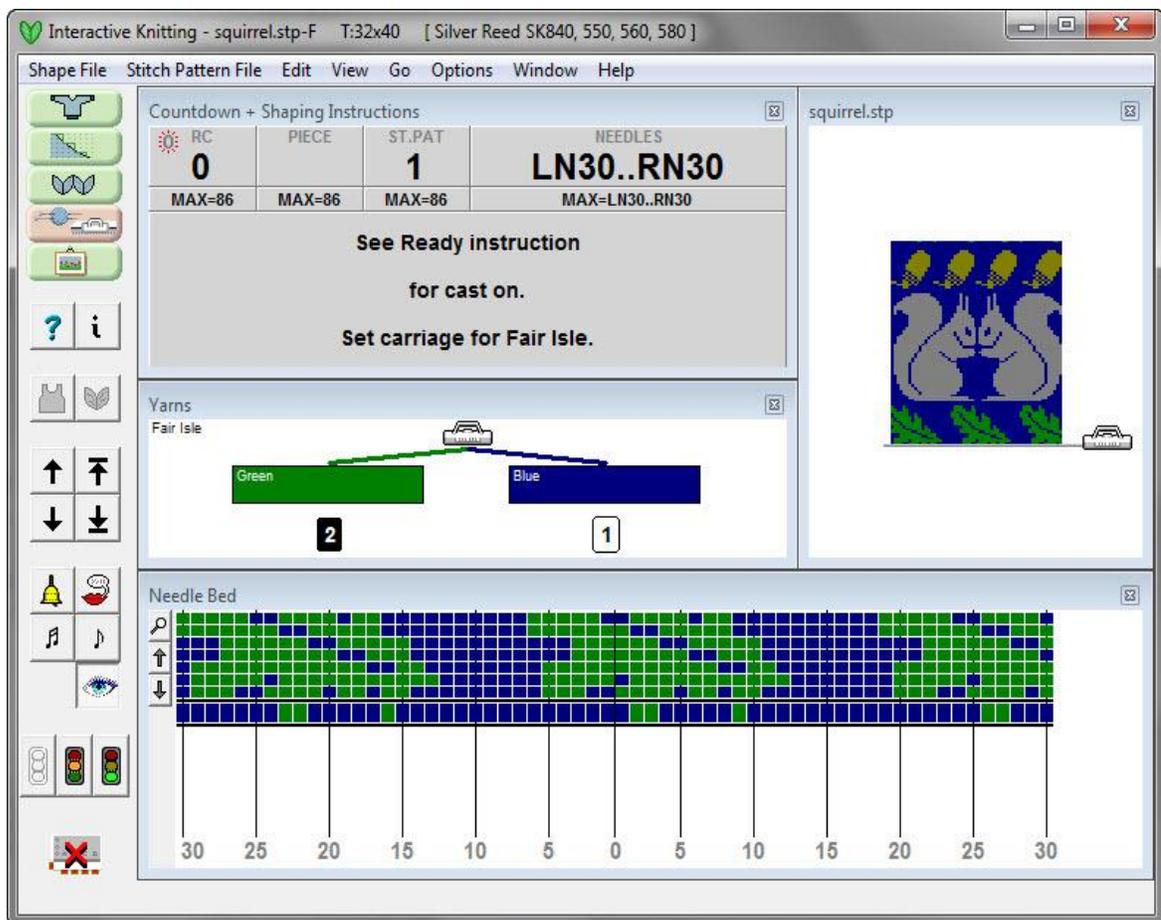


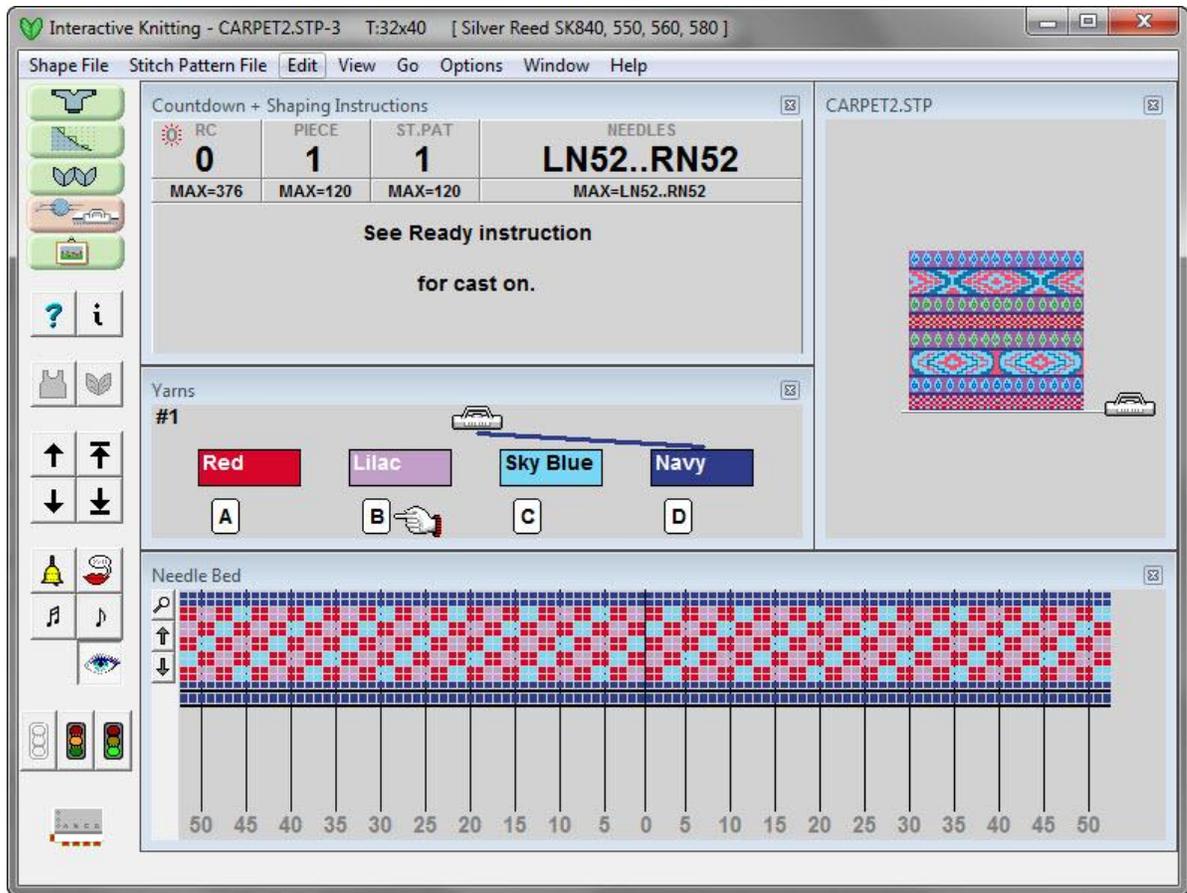
Enter the number of stitches wide and the number of rows you want to knit for the swatch. The figures shown in brackets are the stitches and rows for a single pattern repeat, as saved in Stitch Designer.

If you are making a tension/gauge sample, you need more than 40 stitches and 60 rows.

Whatever dimensions you choose to knit, DesignaKnit will center the pattern on the needle bed, and the first row will be Row 1 of the saved pattern. When you have entered the size you want, click **OK**.

The swatch will then be opened in the Interactive Machine Knitting window with charts and other instructions for you to follow.





To change the stitch pattern for a new swatch, click on the **Stitch Pattern Thumbnails** button on the Tool Bar or select **Stitch Pattern File/Thumbnails** from the menu bar.



Make sure that your machine's CableLink is correctly configured, then Click on the Ready button for the starting information.... and start knitting.

Interactive Machine Knitting Workspace

The workspace of this section of the program is made up of a number of smaller or 'child' windows, each of which has a distinct function, but which are fully synchronized with each other, so you can see all the information available in a several different ways for the pattern row you are viewing. The combination of windows on display when you enter Interactive Machine Knitting depends on what you have chosen to knit, just a shape piece, a piece integrated with a stitch pattern or a stitch pattern on its own, and also the type of stitch pattern.

The windows can all be resized in the usual way by dragging on the sides or corners of the frame, and any you don't want open can be closed by clicking on the X at the top right. If you want to bring a window to the front, just click on it - any window you resize automatically comes to the front as soon as you let go of the mouse button.

You can either keep the windows within the workspace, or you can select **Window/Floating Windows** to free them so that you can move them to any part of the screen, whether this is over the Interactive Hand Knitting window or to any other part of your screen. If you want to return to the original layout, select **Windows/Tile Arrangement** from the menu bar or just untick the Floating Windows option on that menu.

Shape-only or Single color patterns

If you are working in one color only, whether to knit a tension swatch or a shape-only piece, the default workspace layout will look like the examples below.

- When a pattern is saved with methods F, R or W and contains Smart Symbols, not only do these control the needle selection, but the instruction as to when to set or change the technique setting will appear in the instructions window at the relevant time.
- If you have added Memo Symbols to remind you of a manual technique, you can switch Symbol Alerts on to highlight the symbols and, if your speakers are on, give you an audible warning.

There is only one tiling option, but you can of course move and resize the windows.

(Click the picture to see full size image: click again to return)

Interactive Knitting - Baby cardigan.shp (FRONT - LEFT) T:30x40 [Silver Reed SK840, 550, 560, 580]

Shape File Stitch Pattern File Edit View Go Options Window Help

Countdown + Shaping Instructions

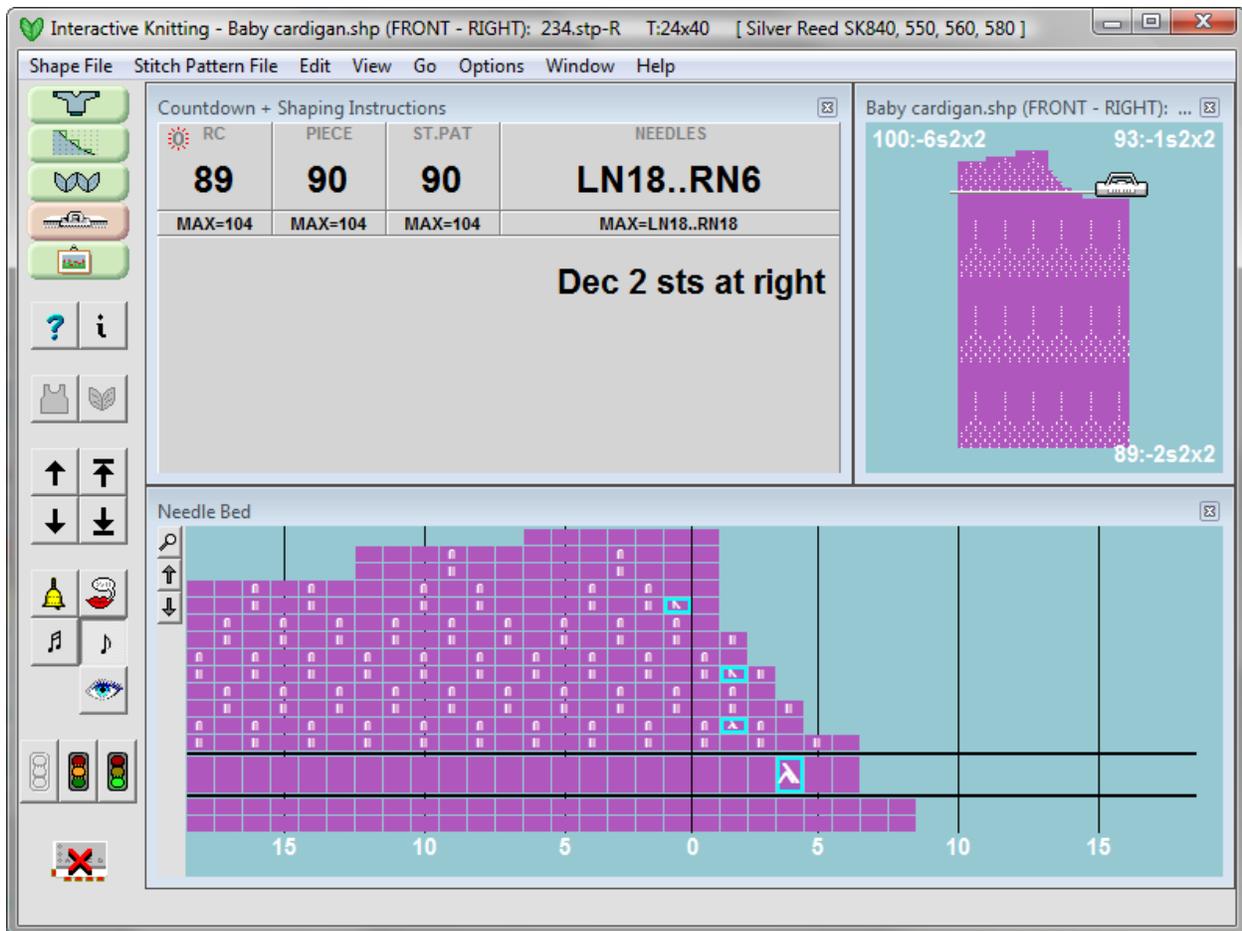
RC	PIECE	ST.PAT	NEEDLES
0	1		LN22..RN23
MAX=104	MAX=104		MAX=LN22..RN23

**See Ready instruction
for cast on.**

Baby cardigan.shp (FRONT - LEFT)

87:-12s2x1 100:-8s2x2

Needle Bed



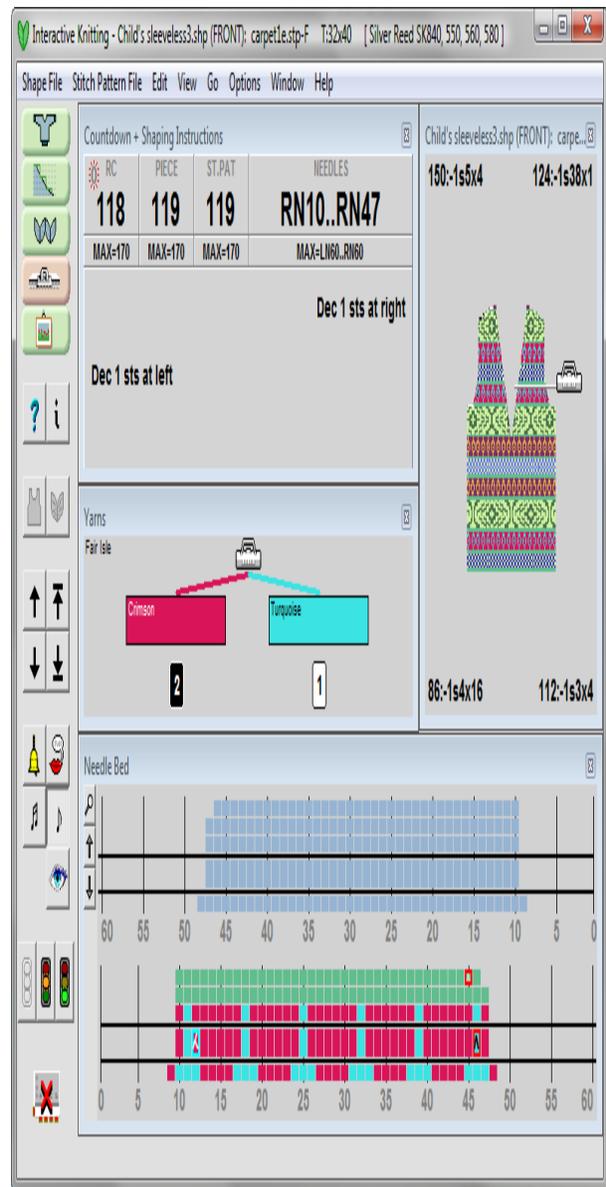
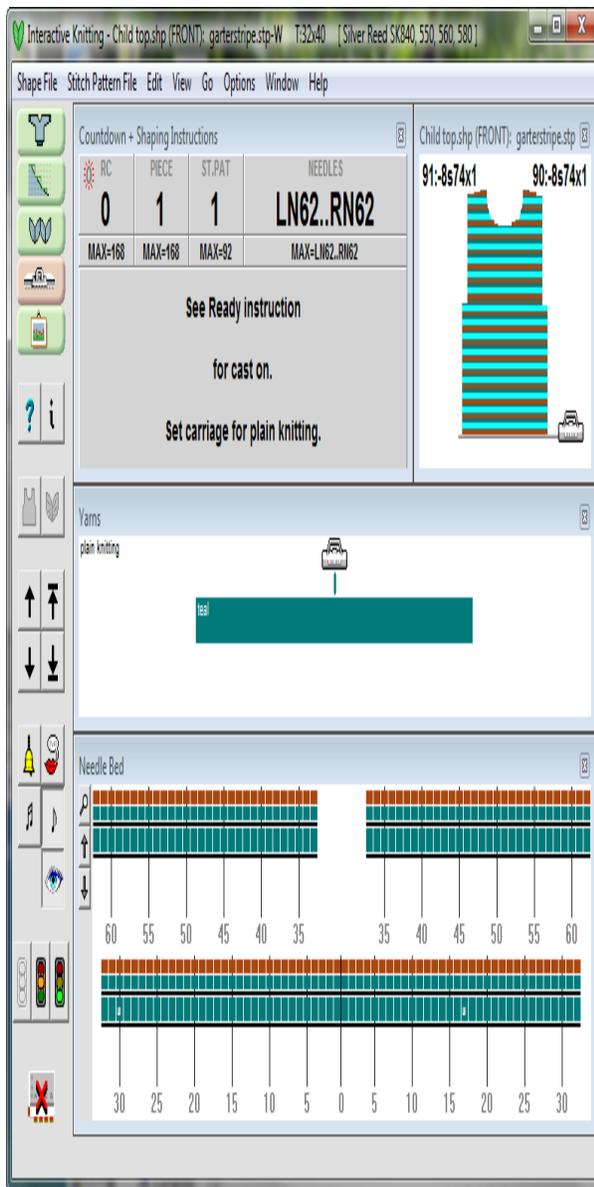
Swatches or Integrated patterns more than one color

This option adds the Yarns window which shows which color(s) to use. When you need to change color, this will be show in the Yarns window.

- When a pattern is saved with methods F, R or W and contains Smart Symbols, not only do these control the needle selection, but the instruction as to when to set or change the technique setting will appear in the instructions window at the relevant time.
- If you have added Memo Symbols to remind you of a manual technique, you can switch Symbol Alerts on to highlight the symbols and, if your speakers are on, give you an audible warning.

There are two tiling options, the second of which gives greater prominence to the Progress Window:

(Click the picture to see full size image: click again to return)



Multi-color patterns

Again, there are two tiling options, but of course you can resize and reposition any of the windows and use the floating windows option if you want to move them outwith the main window.

If you are knitting a **Fair Isle pattern, with two colors simultaneously**, the Yarns window shows into which feeders of the carriage the colors go - and if the color changer is on, which two yarns are active and if only one color is used in the row, which feeder is empty - DesignaKnit will warn you of an awkward color change if the empty feeder is the one normally used for the 'main' color in Fair Isle.

For **Jacquard** patterns, the numbering of the yarns is set in Stitch Designer and, if the color changer is on, the Yarns window will show you which button to press for the next yarn - this is done when the carriage is at the opposite side so that when it comes into contact with the changer, the yarn is changed smoothly.

If you have added **Memo Symbols** to remind you of which decrease/increase technique to use, you can switch Symbol Alerts on to highlight the symbols and, if your speakers are on, give you an audible warning.

Interactive Knitting - Child's sleeveless3.shp (FRONT): carpet1c.stp-F T:32x40 [Silver Reed SK840, 550, 560, 580]

Shape File Stitch Pattern File Edit View Go Options Window Help

Countdown + Shaping Instructions

RC	PIECE	ST.PAT	NEEDLES
17	18	18	LN60..RN60
MAX=170	MAX=170	MAX=120	MAX=LN60..RN60

86-1s4x16

9

Yarns

Fair Isle

Sage A Crimson B Dark Blue C Turquoise 2

Needle Bed

Interactive Knitting - Child's sleeveless3.shp (FRONT): carpet1c.stp-F T:32x40 [Silver Reed SK840, 550, 560, 580]

Shape File Stitch Pattern File Edit View Go Options Window Help

Countdown + Shaping Instructions

RC	PIECE	ST.PAT	NEEDLES
118	119	119	RN10..RN47
MAX=170	MAX=170	MAX=170	MAX=LN60..RN60

160-1s5x4 124-1s38x1

Dec 1 sts at right

Dec 1 sts at left

Yarns

Fair Isle

Crimson 2 Turquoise 1

86-1s4x16 112-1s38x1

Needle Bed

Interactive Knitting - girl's w-coat.shp (rf): carpet2d.stp-3 T:32x40 [Silver Reed SK840, 550, 560, 580]

Shape File Stitch Pattern File Edit View Go Options Window Help

Countdown + Shaping Instructions

RC	PIECE	ST.PAT	NEEDLES
242	82	82	LN22..RN26
MAX=516	MAX=172	MAX=120	MAX=LN25..RN26

girl's w-coat.shp (rf): carpet2d.stp

153-1s6x2 113-6s2x1

68-1s6x17 27-+1s86x1

6

Yarns

#2

light turquoise cobalt mint

1 2 3

Needle Bed

Interactive Knitting - girl's w-coat.shp (rf): carpet2d.stp-3 T:32x40 [Silver Reed SK840, 550, 560, 580]

Shape File Stitch Pattern File Edit View Go Options Window Help

Countdown + Shaping Instructions

RC	PIECE	ST.PAT	NEEDLES
254	82	82	LN22..RN26
MAX=540	MAX=172	MAX=120	MAX=LN25..RN26

girl's w-coat.shp (rf): carpet2d.stp

153-1s6x2 113-6s2x1

68-1s6x17 27-+1s86x1

6

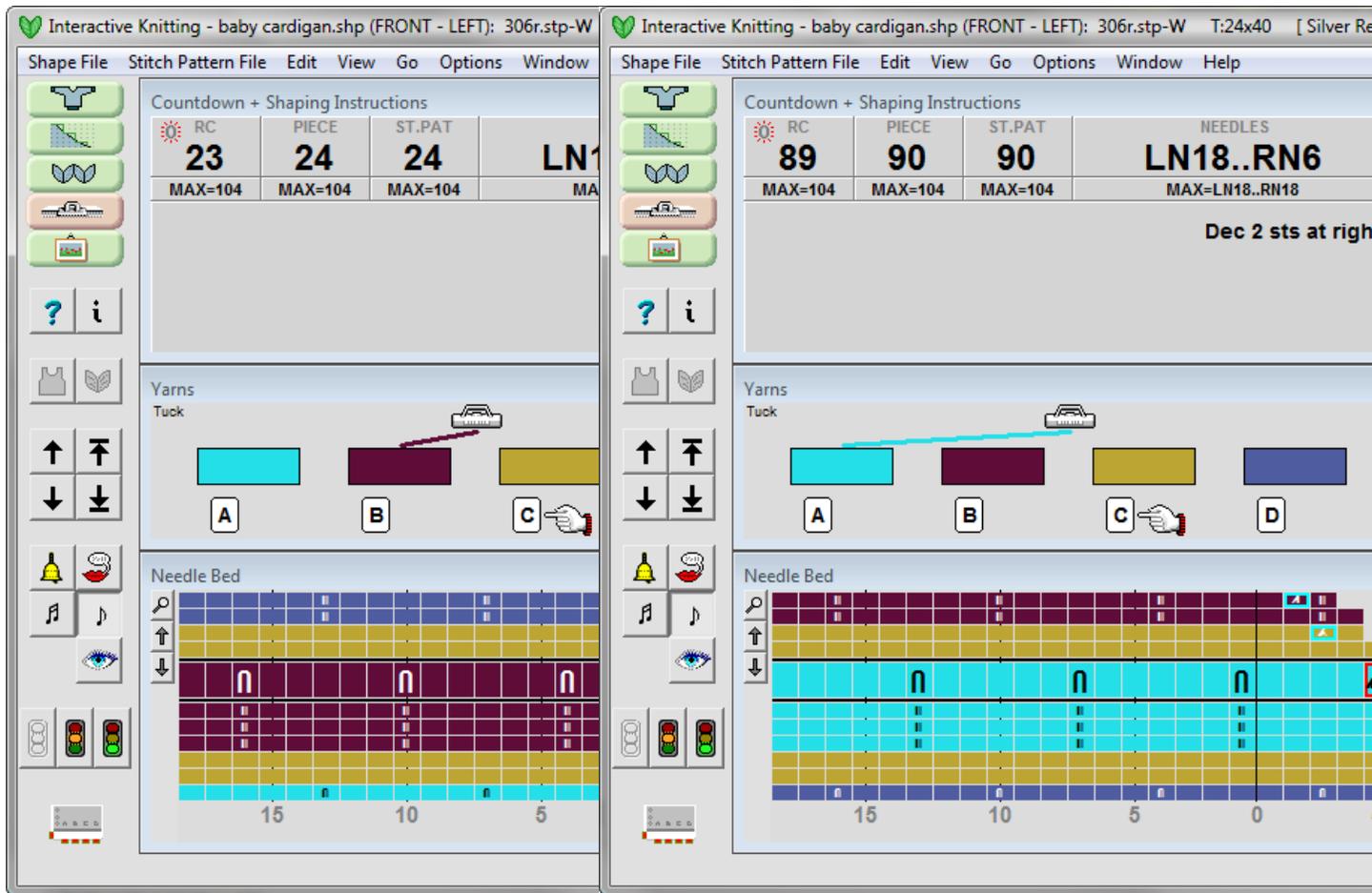
Yarns

#2

light turquoise cobalt mint dark green

A B C D

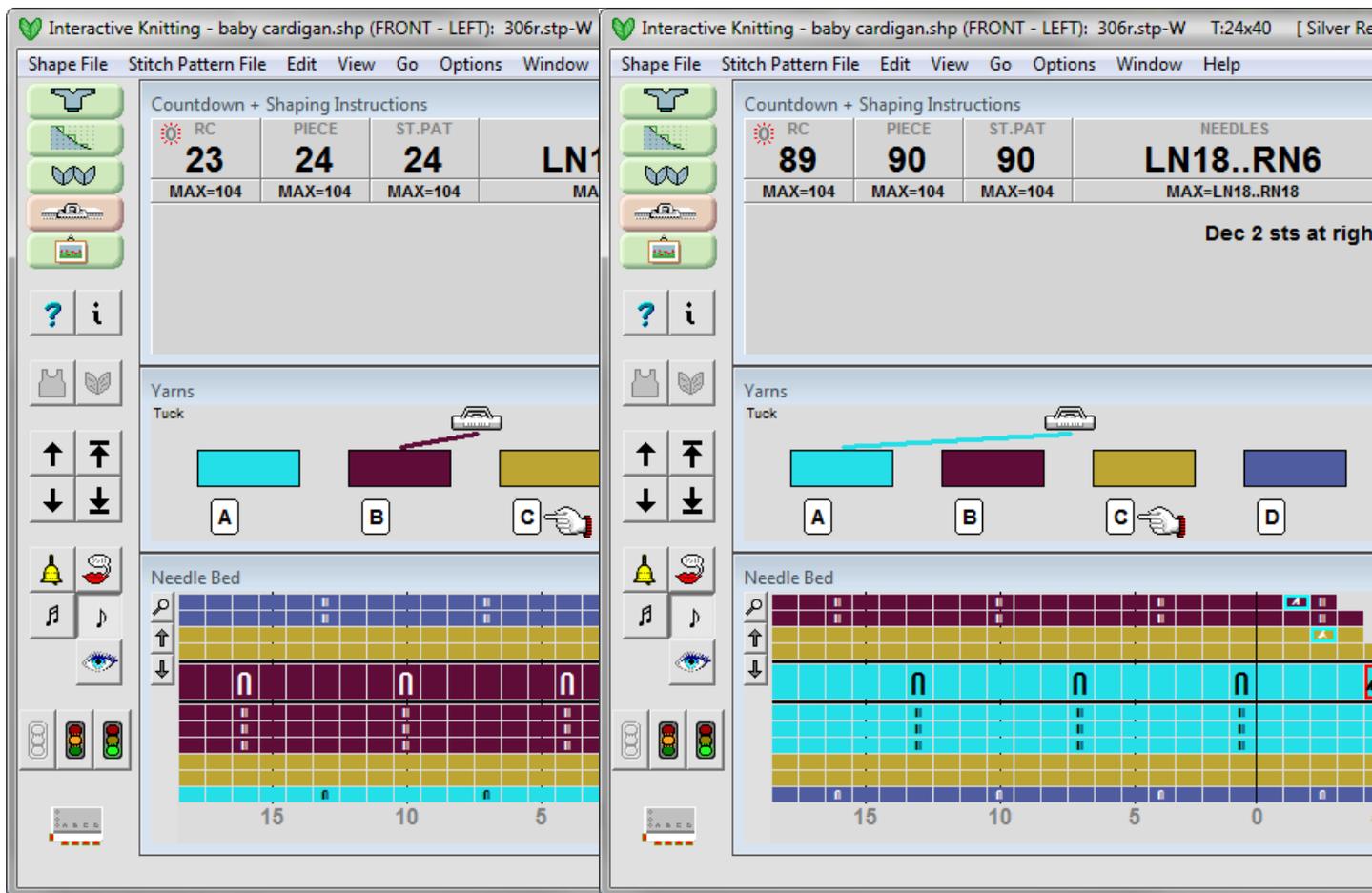
Needle Bed



Pattern with Smart Symbols

When a pattern is saved with methods F, R or W and contains Smart Symbols, not only do these control the needle selection, but they will show you how to set the carriage - this information is shown in the top right corner of the yarns window, but the instruction as to when to set or change the technique setting will appear in the instructions window at the relevant time.

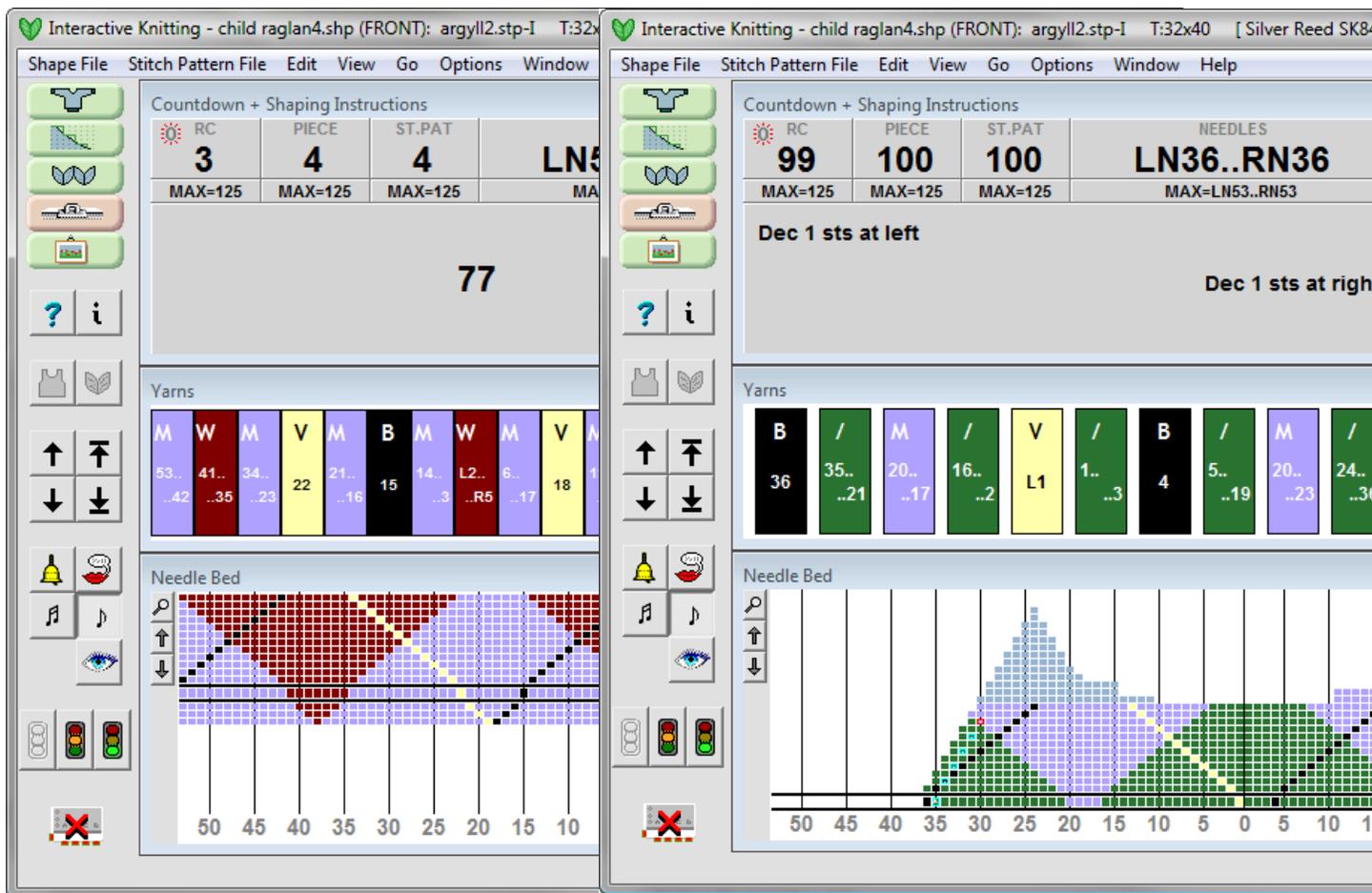
If you have added **Memo Symbols** to remind you of which decrease/increase technique to use, you can switch Symbol Alerts on to highlight the symbols and, if your speakers are on, give you an audible warning.



Intarsia Patterns

With the method set to Intarsia, instead of showing how the yarn is fed into the carriage, the Needle Bed window shows you over which needles the yarn needs to be laid - the actual needles are numbered along the bottom of the Needle Bed Window. This pattern has some shaping symbols applied to the V-neck and to the armhole shaping, so if you set the Symbols Alerts button on, you will hear a sound if your speakers are on, but if not the symbols will still be highlighted in a color which contrasts with the yarn - note that the stitches on hold for the other side (or on waste yarn) have been dimmed so that you can clearly see the ones still in action. Depending on the width of the pattern, you might wish to zoom in on the Needle Bed to see the symbols more clearly - and don't forget you can in any case resize the window.

(Click the picture to see full size image: click again to return)



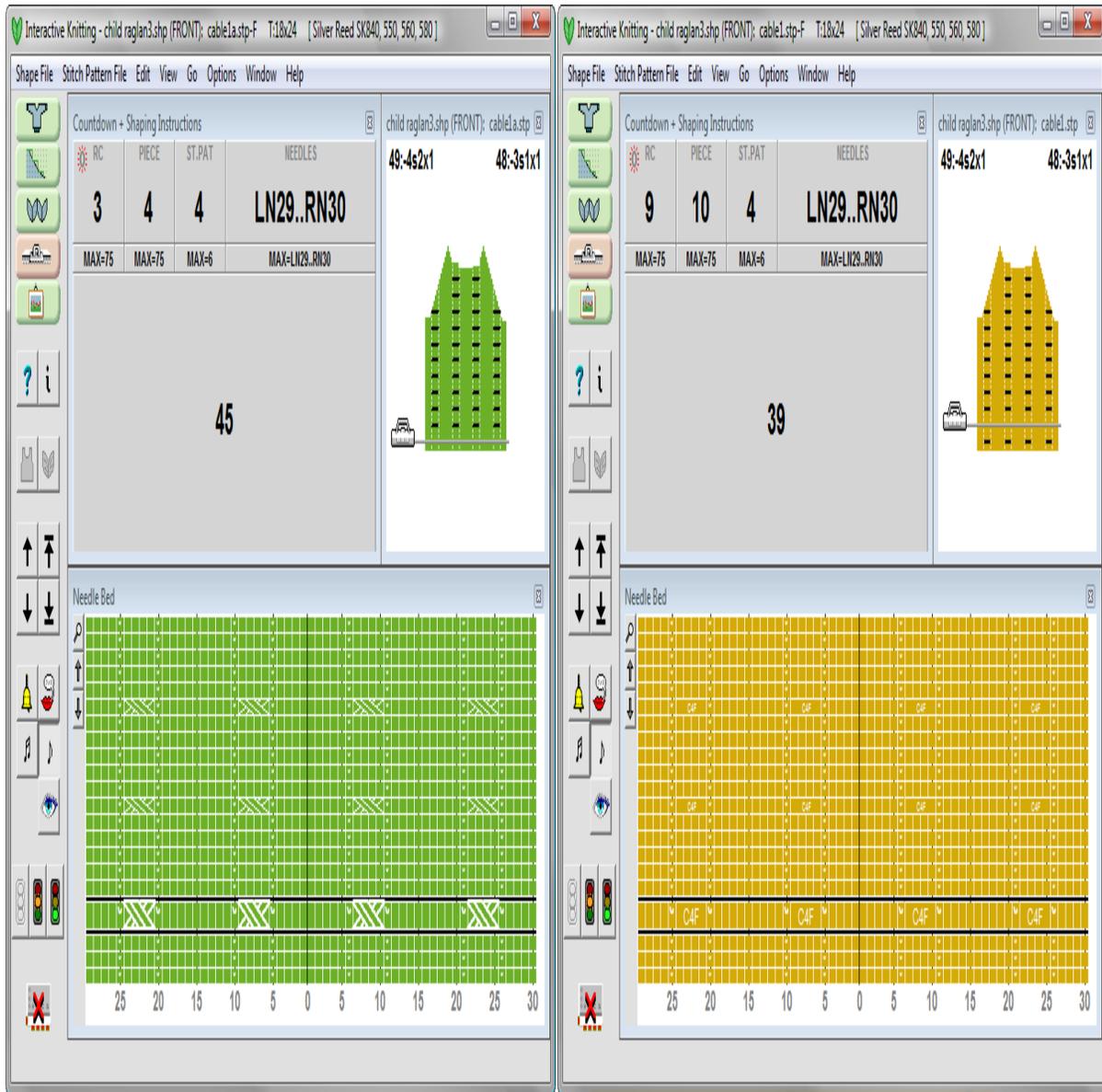
Patterns with cables

Cables have to be worked manually, but DesignaKnit can sound an alert when you reach the row where a crossing occurs, and can display them in the Needle Bed window in one of two ways, depending on how you set up the Cables Palette in Stitch Designer. In this example, memo symbols have been added at each side of the cable column to indicate that those needles are in Non-Working position - so if you don't want those to sound an alert on every row, set the sound option in Stitch Designer's Symbols Organizer to None.

Brother/KnitKing and pre-select machines: if you are knitting with a machine which pre-selects needles, the needles involved in each cable crossing will be brought forward by the carriage as it knits the previous row.

Silver Reed/Studio/Creative machines: these machines do not pre-select, so you will have to consult the Needle Bed window to see which needles are involved in the cable or crossing.

As there is only one yarn involved throughout the pattern shown below, there is only one tile arrangement available because the Yarns window is not necessary. If your pattern involved two or more colors, whether as a Fair Isle pattern, Right or Wrong side facing or Intarsia, the Yarns window would be present and you would have both tiling arrangements available.

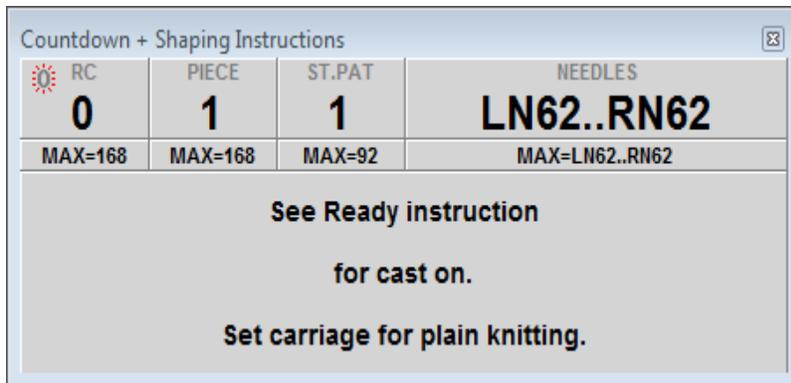


Interactive Knitting Windows - what they mean and how they interact.

Countdown and Shaping Instructions

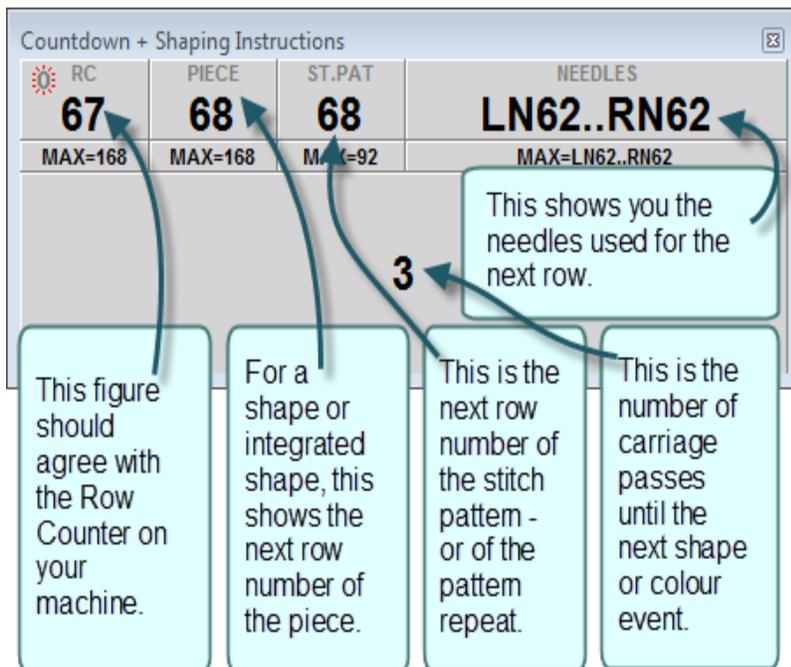
This window tells you where you are in the whole swatch or piece - how to start, how many rows already knit, which row you are on now (both in respect of the entire piece and also which row of a repeating pattern), how many needles are in working position, and for all these items it shows the maximum rows or needles at the longest and widest points.

At the start, it will tell you to check the Ready instruction which will give you information on casting on, knitting any welt, starting position of the carriage and, for those machines which pre-select, from which side to knit that, so that when you commence the pattern or shape your knitting machine carriage is synchronized with the one on the Progress window. It will also tell you how to set the carriage - in this example, for plain knitting.



As you proceed to knit, so the Countdown + Shaping Instructions window will update with each pass of the carriage or, if you are operating Interactive Knitting manually, according to the clicks on the arrow buttons or keys.

The other important thing it does is to let you know how long before you have to do something to the shape, such as increase or decrease or, for a straight swatch, how long to go till you cast off.



What this is saying is:

- You have made 67 carriage passes out of the total of 168 for the Piece (if a Swatch only, then the maximum number of rows for the Swatch)
- The next pass will be the 68th, which will also be the 68th row of the pattern - thus demonstrating that unlike Jacquard, this project has one carriage pass per row.
- The stitch pattern will require more than one repeat in length as the pattern consists of 92 rows, but the piece is 168 rows. This means that when your row counter says 92, the next piece row will be 93, but the next pattern row will be 1.
- The maximum number of needles for the piece is from Left Needle 62 to Right Needle 62 and all the needles are in use for the next row - so there has as yet been no shaping.

- In 3 rows time there will either be a shaping instruction or a color change. Note that the shaping instructions shown here are the ones generated by the shape file: if you have used Memo Symbols to indicate what kind of shaping technique and on which needle, these will not be shown here, but in the Needle Bed window where they will be highlighted if you have turned the Symbols Alerts button on.

If you just want to scroll through the pattern to see what will have to be done when you actually knit it, you can use the arrow keys to move one row at a time, or use your mouse wheel to scroll quickly. If you want to go to a particular row, there is also the option of using the Go/ to RC menu item.

Progress



This window shows you where you are in the whole piece, as well as giving you some information regarding the next shaping instructions.

The title bar of the window shows the information about what you are knitting. For a shape, it gives the file name and the piece name and, if integrated the name of the stitch pattern; for a stitch pattern swatch only, it gives the name of the pattern file.

The background color of the window can be changed in Stitch Designer: Options/Color Scheme/Screen color, but DesignaKnit will in any case make sure that it is in contrast to

the stitch pattern so that you can see the piece or swatch clearly..

As you move through the pattern it gives a quick visual reminder of the position of the carriage at the start of the next row and where you are in relation to the whole piece or swatch. If you want to look at a particular area you can click on the piece or swatch or scroll quickly through the pattern with your mouse wheel.

Shape-only and Integrated Shapes

If you are knitting an integrated piece, the next shaping instruction(s) are shown so that you have plenty of warning. The shaping instructions follow a format devised for machine knitting known as 'Japanese Notation' which deals with each side separately. In this example it shows the decreases which will take place at the right because this is first location where shaping will occur.

- Row number at which the action is to take place
- Type of shaping: - is a decrease; + is an increase
- Number of stitches increased or decreased
- Number of rows to be knit between shaping rows - *this refers to the side on which that shaping has taken place*, so it is not necessarily a row or rows without any shaping, that could take place at the other side, as in the examples below.
- Number of times the action is to be repeated
- The information is displayed at the relevant side of the piece or swatch, with present and future instructions displayed at the top of the window and, once the first in a repeated sequence has been passed, the instruction then drops to the bottom of the window until it has been finished with.

The shaping instructions refer to the outside edges of the *current section*, thus in the center picture, it is the left shoulder and neck edge which is being knit) remember, the right side is facing you in the pictures), so the instruction "at row 86: *decrease one stitch and knit 4 rows without shaping (repeat from *16 times) *refers only to the neck decreases*

This piece is knit in two sections:

1. From the start to the top of the left shoulder. At the point at which the knitting is divided for the neck, DesignaKnit will warn you to **Hold** (i.e. hold on waste yarn to prevent pilling) the stitches for the right hand side of the neck. When the first section is complete....
2. DesignaKnit will tell you to **Pick up** the held stitches and give you instructions for the pattern and shaping of the second section, which is the right hand side of the neck and shoulder.



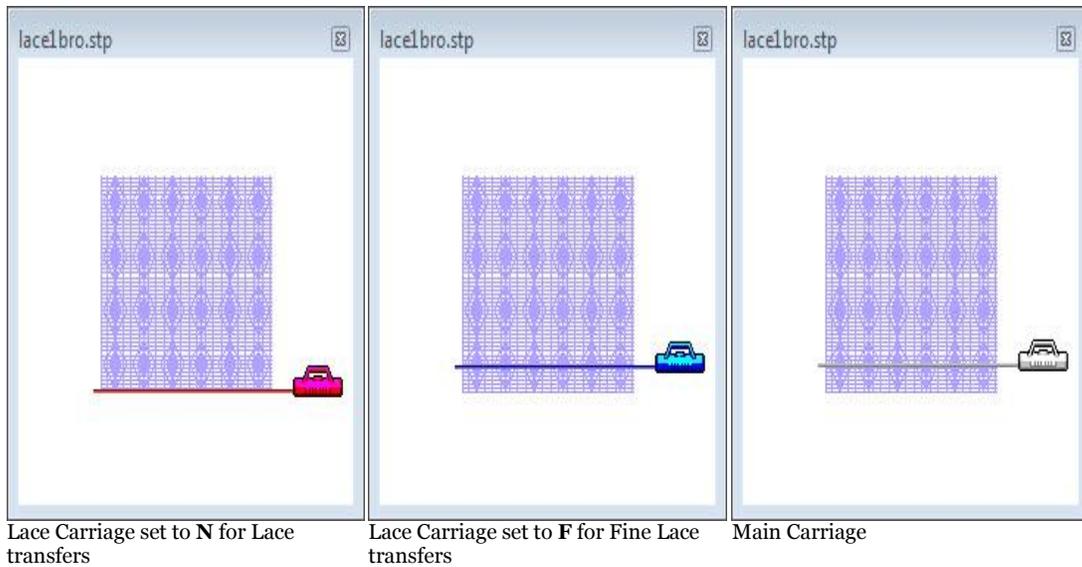
Lace Knitting

If you have purchased the **Lace Tool Add-on**, when knitting a lace pattern, the Progress window shows you which carriage to use for each pass, and what the setting should be.

Lace on the Brother/KnitKing machine

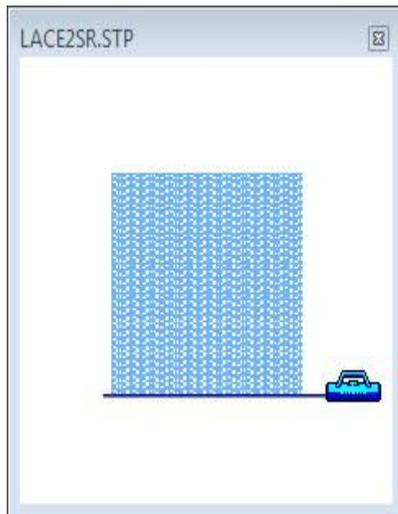
This involves the use of two carriages: the Lace carriage to make the transfers and the normal carriage to knit after the transfer sequences have been completed.

The carriages must be at opposite ends of the needle bed so that each is out of the way of the other when it is in use. DesignaKnit's Countdown and Instructions window will tell you how to set up the carriages and, as you knit, which carriage to use and what the setting should be, but the Progress window gives a quick visual reminder of this as well as indicating the position in the pattern that you have reached.



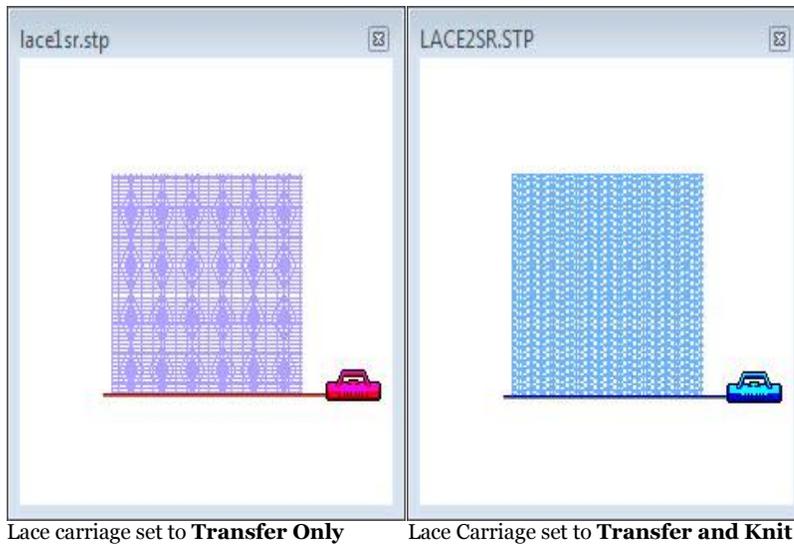
Lace on the Sliver Reed/Studio machine

For simple lace patterns, where all eyelets are made by transferring the stitch to the adjacent needle in the direction of knitting only, the main carriage can be used with the L setting: this transfers and knits in a single pass of the carriage.



Knitting Carriage set to **Transfer and Knit**)

For complex lace patterns which involve multiple transfers to create some or all of the eyelets, the lace carriage must be used and the carriage set to transfer only or transfer and knit, according to the requirements of the pattern. DesignaKnit's Countdown and Instructions window will alert you to any setting changes, but the Progress window will give you a quick visual reference:



Lace can be used with other techniques, such as Fair Isle or Tuck, but these cannot be combined in the same row as lace transfers and must be in separate bands of patterning. If you are striping lace with such other techniques, you will have to change to the main knitting carriage for those rows.

Yarns

If your pattern contains more than one yarn, not necessarily in the same row, and these have been set up in Stitch Designer, Interactive Machine Knitting will show you the yarns to be threaded into the carriage feeder or, in the case of Fair Isle, feeders, and when to change them. If you are using a color changer and you have switched it on, it will show you which button to press on the changer for the next yarn to be picked up.

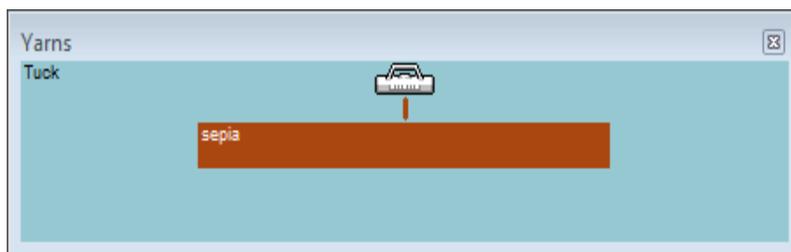
If you have entered and saved names for the colors or yarns in Stitch Designer, these will be displayed.

The Yarns window also shows a reminder of the carriage setting for the section of the pattern, according to the method of knitting, the number of colors in a row and the presence (or not) of Smart Symbols.

If you have configured Shape-only, or your pattern consists of one color throughout, you will not have a Yarns window, but the progress and needle bed windows will show the color of the yarn saved with the stitch pattern.

Striped patterns: without color changer

This is from a textured pattern which is knit in stripes - the window shows the current yarn and, in the top left corner, the carriage setting. The Shaping + Instruction window only mentions the carriage setting at the time this is set or changed, whereas the Yarns window responds to the Smart Symbols row by row.



A change of color within a feeder is indicated by two cones of yarn, with an arrow from one to the other, which appears on the color block of the relevant feeder as the block changes to a new color

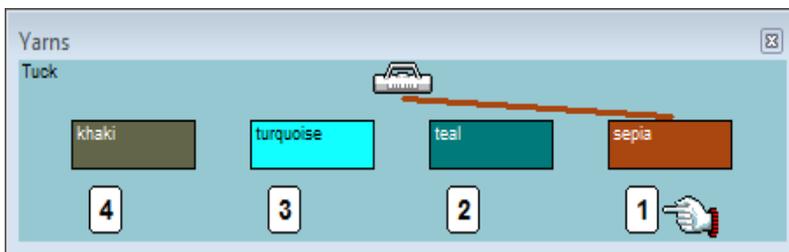


Stripes: with color changer

If the color changer is in use, the Yarns window shows which colors are currently threaded through the changer and which button to press to change to the next color:

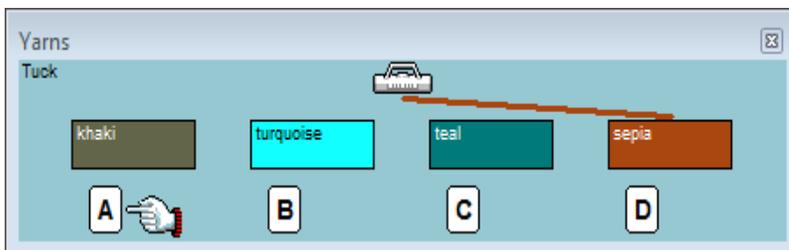
Brother/KnitKing, Toyota, Singer/Superba machines:

The numbers correspond with the buttons on the color changer/



Silver Reed/Studio, Creative machines:

The letters correspond with the buttons on the color changer.



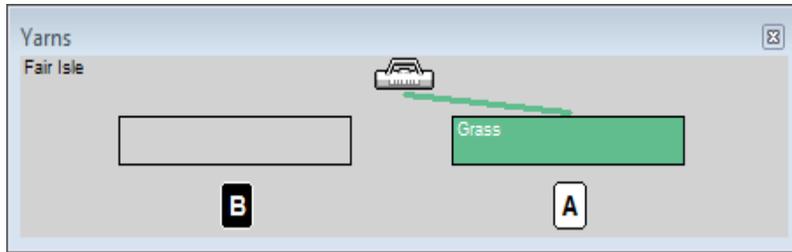
Fair Isle (no color changer)

When a pattern has the F method and is either all-over Fair Isle or includes bands of Fair Isle, the Yarns window shows which yarns are used in the current row and will alert you when it's time to change to a different color. If at any time one of the yarns is not in use, e.g. for one or more plain rows between bands, this will be shown as an empty yarn/feeder. DesignaKnit will warn you if there are awkward color changes, especially if the only color is in the front feeder. It is then up to you how you prefer to handle this situation.

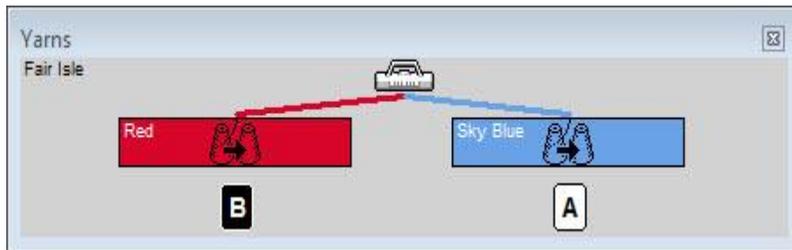
The rear feeder is shown at the right and the front feeder at the left for all machines with two-feeder carriages.

Brother/KnitKing, Toyota, Singer/Superba machines

The rear feeder is A and the front feeder is B - in this example, feeder B is empty as only the non-selecting needles are to be knit in the color indicated.

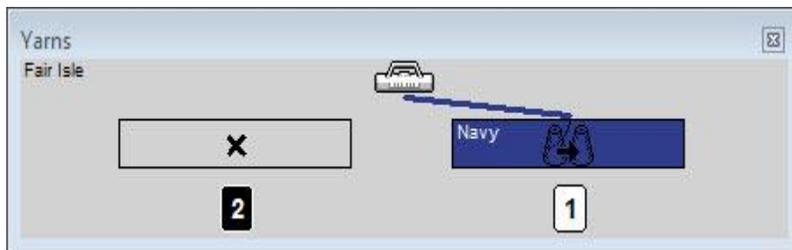


Here, both feeders are in action: the non-selecting needles will be knit in the color in the rear feeder (A) and the selecting needles with the yarn in the front feeder (B). The yarn cones shown on the feeders indicated that the colors are to be changed to those shown before knitting the row:

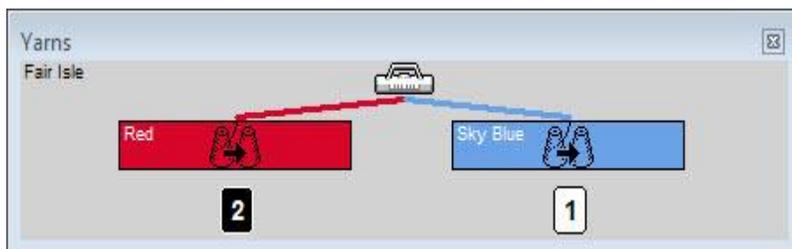


Silver Reed/Studio, Creative machines

The rear feeder is labeled 1 and the front feeder is 2. The x shown on the front feeder indicates that the yarn must be removed before knitting the row as it consists only of non-selecting needles which will be knit with the yarn in the rear feeder. The cones shown on the rear feeder (1) indicate that the yarn is to be changed to the color shown.



Here, both feeders are in action: the non-selecting needles will be knit in the color in the rear feeder (1) and the selecting needles with the yarn in the front feeder (2). The yarn cones shown on the feeders indicated that the colors are to be changed to those shown before knitting the row:



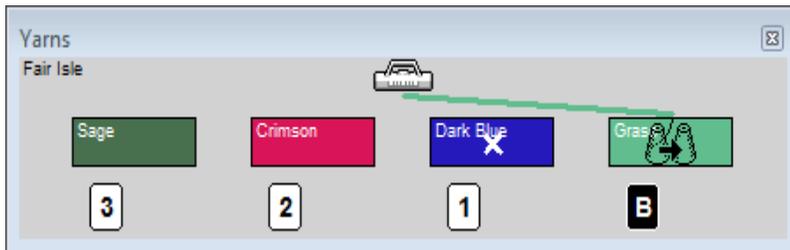
Fair Isle with color changer

Fair Isle can only be knit with either the single bed color changer, or with the color changer in single bed mode so that it can deal with two color simultaneously.

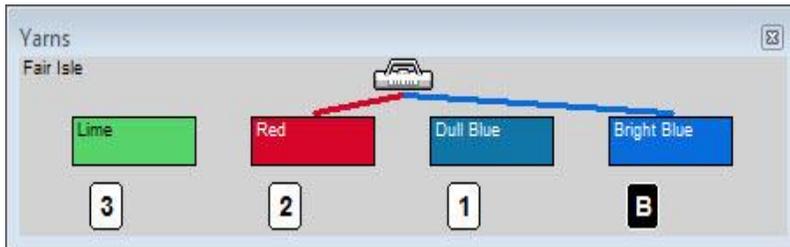
It is the *rear* feeder which connects to the color changer, which means that the needle selection must be reversed. Silver Reed/Studio and Creative machines connected directly to DesignaKnit do this automatically when the Color Changer button is turned on as the pattern is downloaded in Real Time, but for Brother/KnitKing machines and Silver Reed/Studio machines using the PE1 or PC10, the negative switch must be used to reverse the selection.

Brother/KnitKing, Toyota, Singer/Superba machines

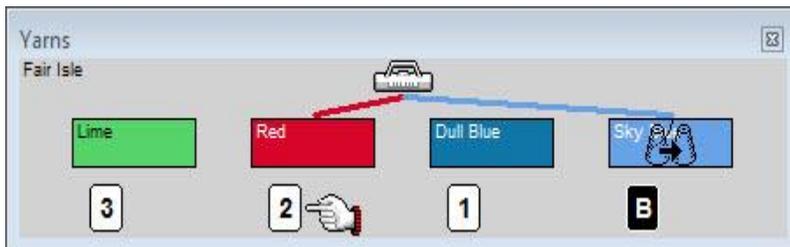
The four buttons on the Color Changer are labeled 1 - 4, with the color in no. 4 going into feeder B (the quick way to do this is to pick it up in feeder A, then slip it into feeder B). The Yarns window shows that for the next row, color 1 is removed so the rear feeder will be empty, as the entire row will be of selecting needles and therefore knit with feeder B only. The cones shown on feeder B indicate that the color is to be changed to the one shown before knitting that row - this could be one of the 'awkward color changes that DesignaKnit will warn you about before knitting!



When two colors are being knit, they are both shown attached to the carriage:

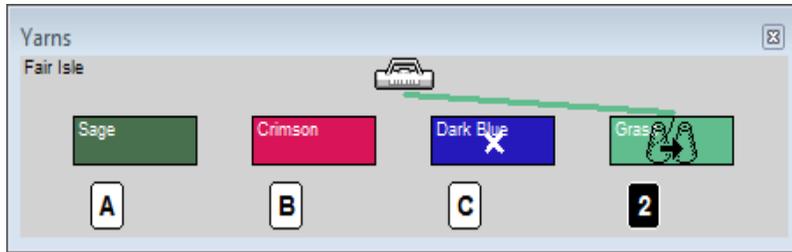


If a color is to be changed in the rear feeder, DesignaKnit will indicate which button to press for the next change. This is done when the carriage is at the opposite side of the needle bed from the color changer.

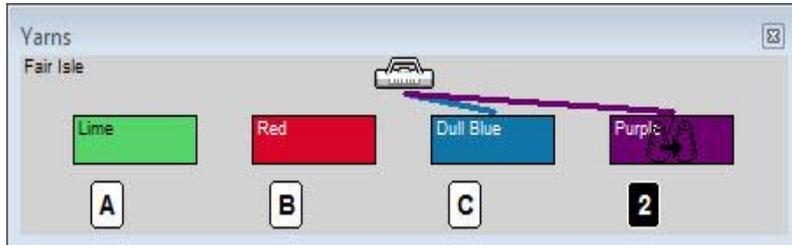


Silver Reed/Studio, Creative machines

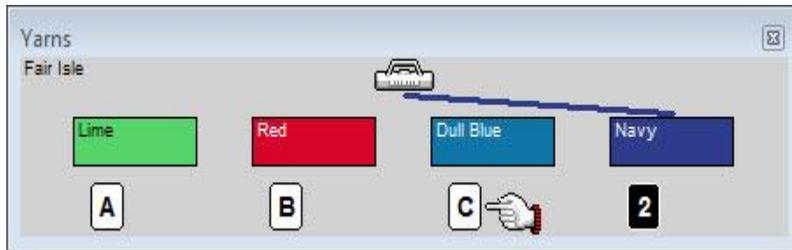
Silver Reed/Studio color changers are labeled A, B, C and D. Here, the color in D is in the front feeder and for the next row, the color in C is removed.



When two colors are being knit, they are both shown attached to the carriage:



If a color is to be changed in the rear feeder, DesignaKnit will indicate which button to press for the next change. This is done when the carriage is at the opposite side of the needle bed from the color changer.



Jacquard

Jacquard patterns will have had the yarn numbers and feeders allocated in Stitch Designer, which is where you can also control whether colors not in use are suppressed entirely or, for double-bed Jacquard, knit on the second bed only.

Only one color/yarn is knit at a time in Jacquard patterns, so the carriage is set for slip stitch and, if using the single bed carriage, the yarn is always in the rear feeder, whether or not the color changer is used.

TIP

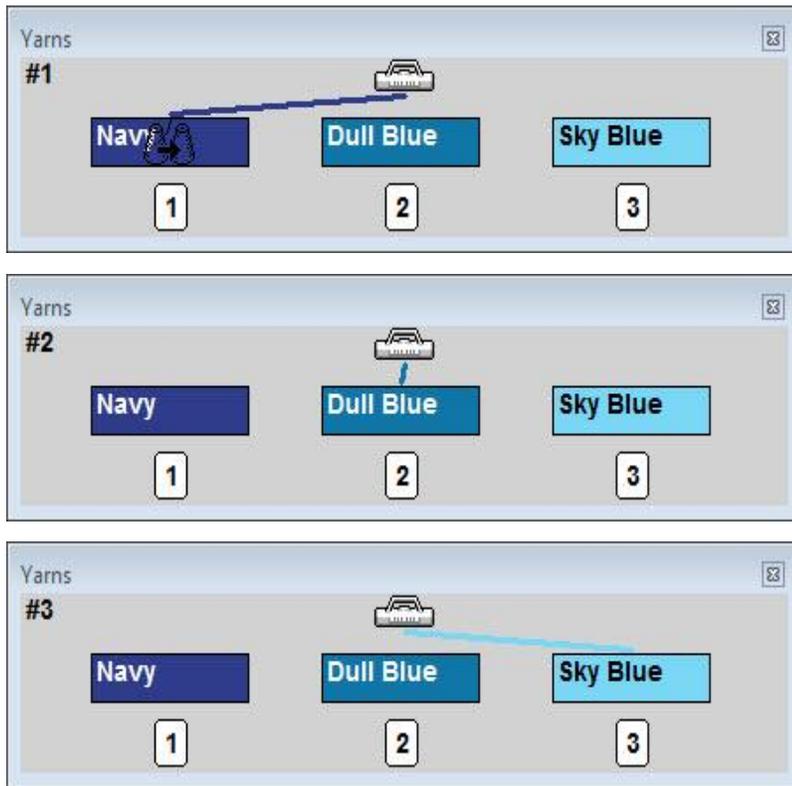
If you find that your knitting is stripes and not the pattern you expected, this is because the colors are not being knit in the correct sequence and you are out of synch with the needle selection.

Jacquard without color changer

All machines: When you are not using a color changer, the numbers refer to the order in which the yarns are threaded into the tension wires and the order in which they are knit in each pair of rows; this number is also shown at the top left of the Yarns window.

The number of yarns shown will depend on the maximum number of colors per row and will indicate the colors required for the next pair of rows. The examples below are for a 3-colors per row Jacquard.

If changing to a new color - that is, one which is not already threaded up - this is indicated with the appearance of the cones on the relevant yarn number:



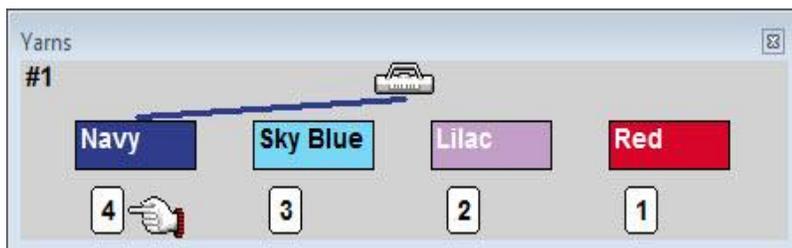
Jacquard with color changer

The colors are labeled according to the buttons on the color changer, but the yarn sequence number is shown at the top left of the yarn window. As you can have up to four colors shown threaded up at any time, this could mean that the yarn sequence number (that is, the order in which the yarns are used in any pair of rows) may not coincide with the color changer button, so it is important to keep an eye on both.

The pointing finger indicator shows you which button to press and when - note that this is when the carriage is at the opposite side of the needle bed.

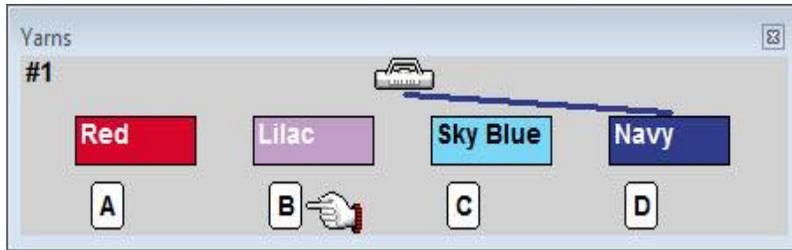
Brother/KnitKing, Toyota, Singer/Superba and Pfaff/Passap machines:

The color changer buttons are numbered from right to left.



Silver Reed/Studio, Creative machines:

The color changer buttons are labeled from left to right.



Intarsia

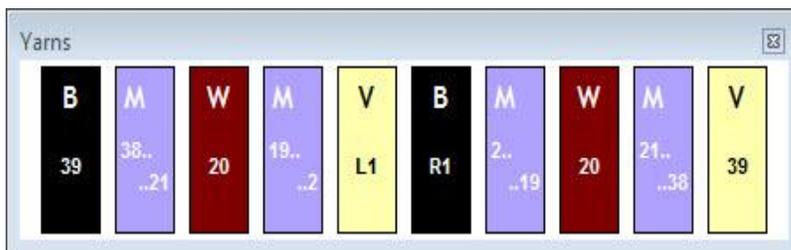
With the exception of the Silver Reed/Studio AG50 Intarsia carriage, which can knit downloaded patterns, this is a manual technique whereby the yarns are laid over needles brought forward then either the main carriage set for Intarsia or a special intarsia carriage is passed across the needle bed.

If there is sufficient room in the Yarns window, the yarns will be shown in blocks along with the Yarn Symbols (not to be confused with Stitch Symbols) allocated in Stitch Designer, to help identify them, and the numbers of the needles over which they should be laid.

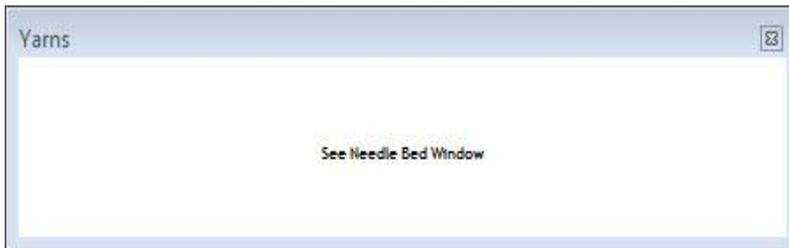
If there is not enough to space to show this information, the Yarns window will refer you to the Needle Bed window which shows the chart of your pattern; however, you can of course resize the Yarns window, and you may find that solves the problem.

This example shows a swatch 78 stitches wide (Left Needle 39 - Right Needle 39)

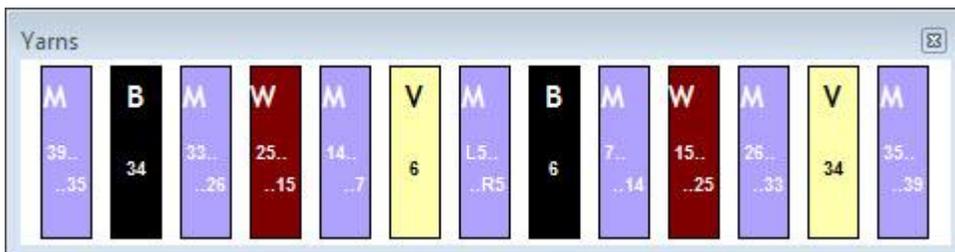
B(lack): L 39; M(auve): L 38-21; W(ine): L 20; M(auve): L 19-2; V(anilla): L1; B: R 1; M: R2-19; W: R20; M: R21-38; V: R39



A few rows on, the window was not large enough to show all the colors...

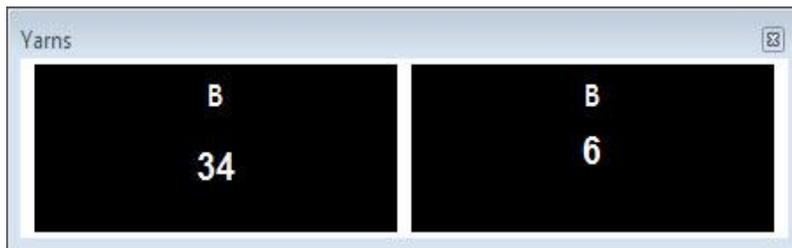
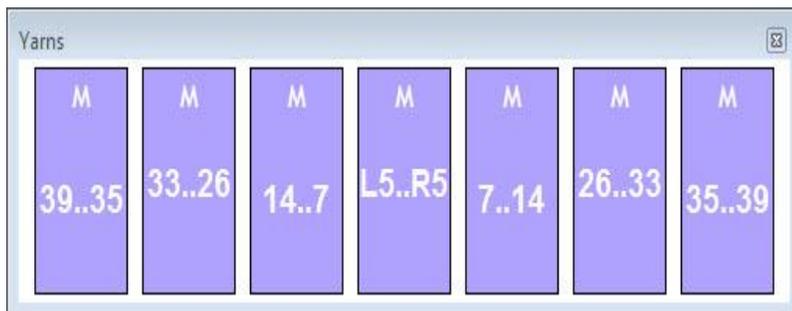
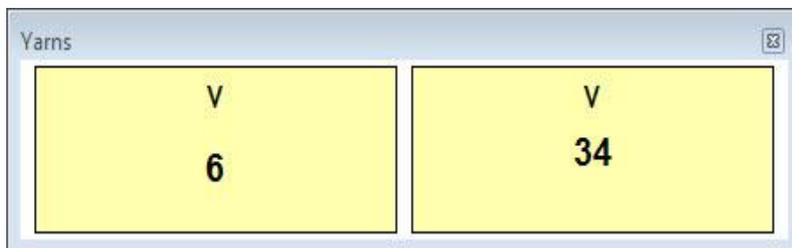
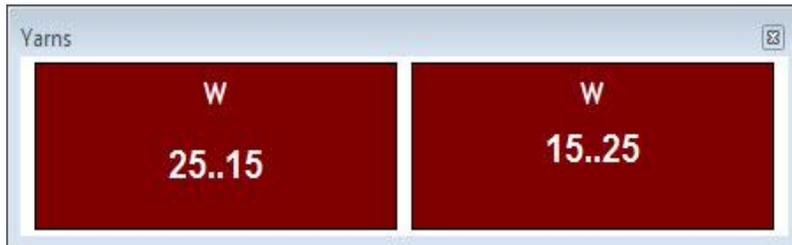


... but resizing it slightly was enough to show all them all:

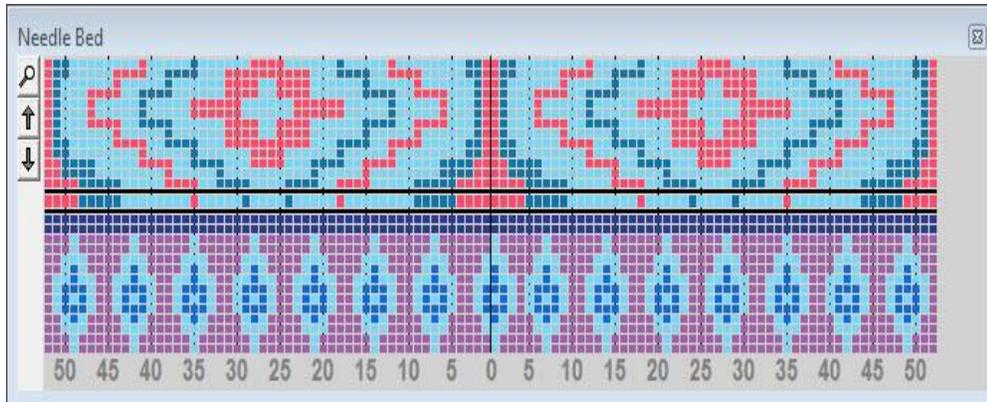


Silver Reed/Studio AG50 Intarsia Carriage

Patterns for this carriage are downloaded and the colors knit one at a time, in the order in which they appear in the palette (in normal reading order, left to right, top to bottom) in Stitch Designer. The AG50 pre-selects the needles, thus the very first pass of the carriage for each row is to select the needles for the first color, so the Yarns window is empty until this has been done - this is so that the carriage is in the correct place to pick up the yarn for the return row. The Progress window will show you the carriage position.



Needle Bed



This window shows the chart of the pattern as it is arranged on the needle bed of your machine. Whether you see the pattern as you drew it in Stitch Designer or reversed depends on a) the knitting machine you are using and b) the knitting method ascribed to the pattern. In Stitch Designer, the pattern is usually drawn with the Right Side (effects face) facing you on the screen, but in order to achieve this, it may be that the pattern has had to be flipped for downloading: DesignaKnit does this automatically. This means that what you see on the Needle Bed chart will match exactly what is facing you on the knitting machine.

- If the programmable bed on the knitting machine is the *back bed*, then the side facing you as you knit is the *purl* side.
- If the programmable bed on the knitting machine is the *front bed*, then the side facing you as you knit is the *knit* side.

Japanese machines

This means that if the Right Side of the fabric is the knit side (methods **F**[air Isle], **W**[rong side facing], **I**[ntarisa] or one of the Jacquard **2**, **3**, **4**, **5** and **6**), and you are working on a Japanese machine, DesignaKnit will have flipped the pattern horizontally before downloading so that it will be the correct way round.

If the Right Side is the purl side, then the method must be **R**[ight side facing] and the pattern will not have been flipped.

Pfaff/Passap

The programmable bed is the front bed, so for methods **R**[ight side facing] and any of the Jacquard **2**, **3**, **4**, **5**, **6** methods, the knit side is the Right Side and as this is facing you as you knit, the pattern will not have been flipped.

If the method is **W**[rong side facing], this means the purl side is the Right Side and as this will be facing away from you as you knit, the pattern will have been flipped.

The Needle Bed chart shows all the elements which were saved with your charted pattern, including colors and both Smart and Memo symbols and, if you have included cables in your pattern these are shown either with a cable graphic or a cable abbreviation, depending on which format you chose in the Cables Palette in Stitch Designer. Memo symbols and cables all refer to manual interventions in the pattern and if you have on set alert tones in the relevant palettes, switching on the Symbol Alerts button will draw your attention when you reach the row when you need to do something.

The next row to be knit is highlighted, which is particularly useful if you want to check pre-selected needles. If you are knitting a shape or an integrated shape, only the needles in work are shown and when you have to work on one section, such as the side of the neck shaping, only the section you are knitting at the time is shown in detail and any others are faded so that you can be quite sure what the instructions refer to.

The needles are numbered to match the needle bed on your machine, with 0 between Left and Right needles no. 1. If your pattern is wide to see the detail clearly, you can change the zoom level which will split the chart into two or three sections, or you can resize the window, and you can adjust the number of rows shown above and/or below the current row.

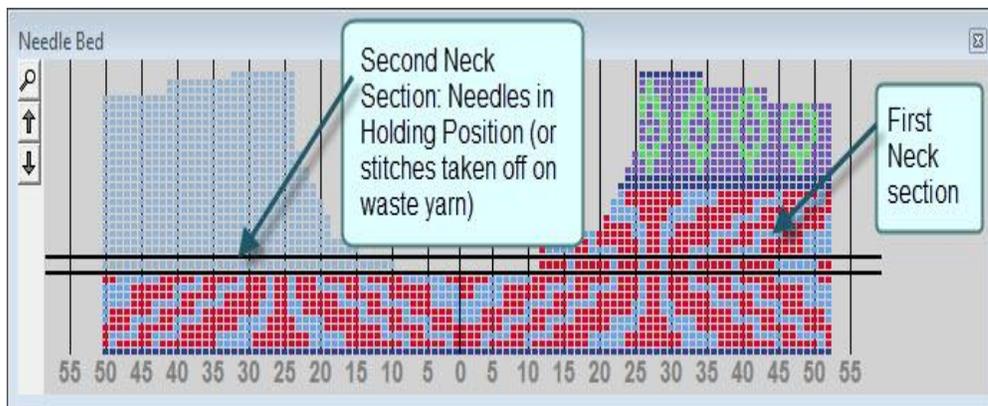
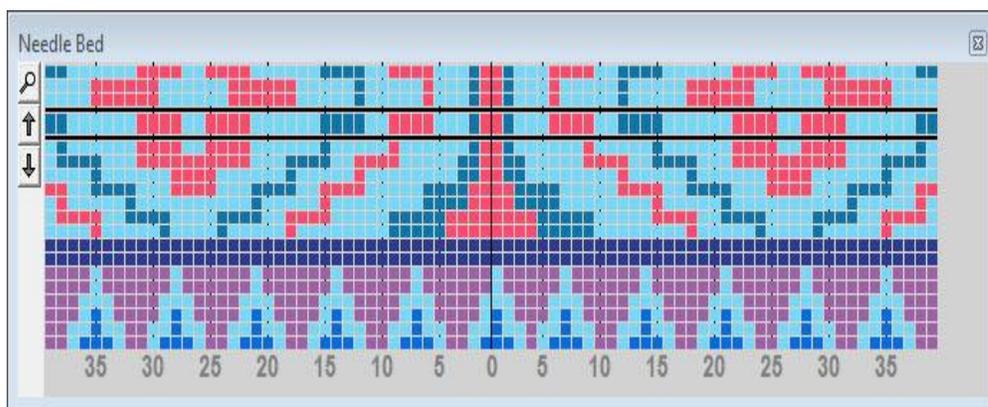
Zoom Chart Window

Click on this button to change to one of the three zoom levels of the Chart window:

It cycles through three stages:

One section: the wider the pattern, the smaller the chart will appear in order to fit into the window, so to see it more clearly, change to the next zoom level:

The direction of knitting is determined by the carriage position, which is shown in the Progress window.

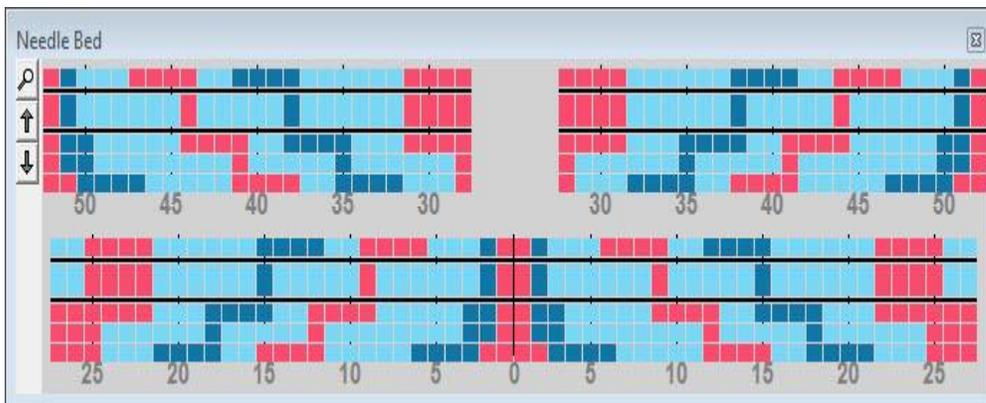


Two sections: whether you can see any rows above or below will depend on the number of stitches and the size of the window.

The left side of the machine's needle bed is shown in the top half, and the right side in the bottom half.



Three sections: whether you can see any rows above or below will depend on the number of stitches and the size of the window.



↑ Current Row Up

If two or more rows are displayed, this moves the highlighted current row up the screen.

Note: this is a view option - it does not advance the pattern.

↓ Current Row Down

If two or more rows are displayed, this moves the highlighted current row down the screen.

Note: this is a view option - it does not scroll the pattern backwards.

Interactive Machine Knitting Tool Bar



Help

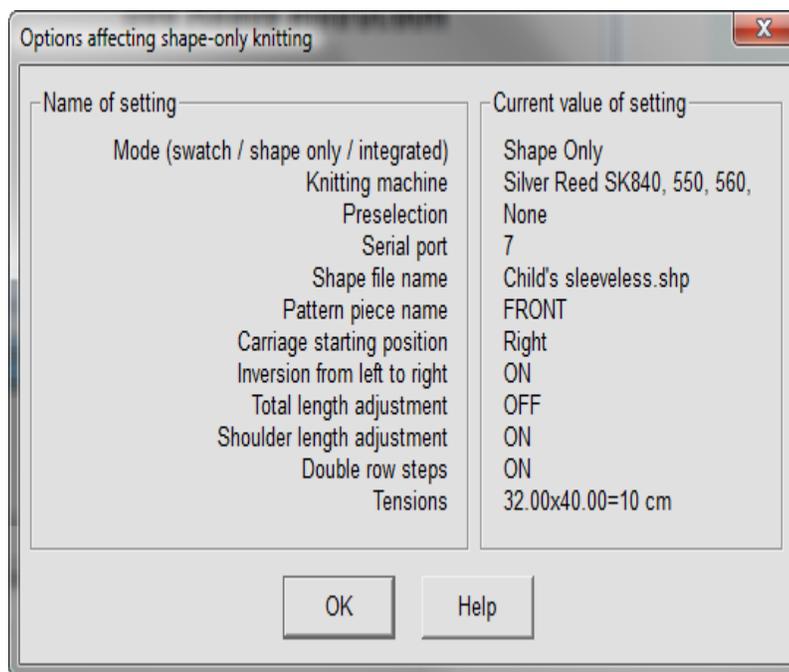
Opens the Help for this section.



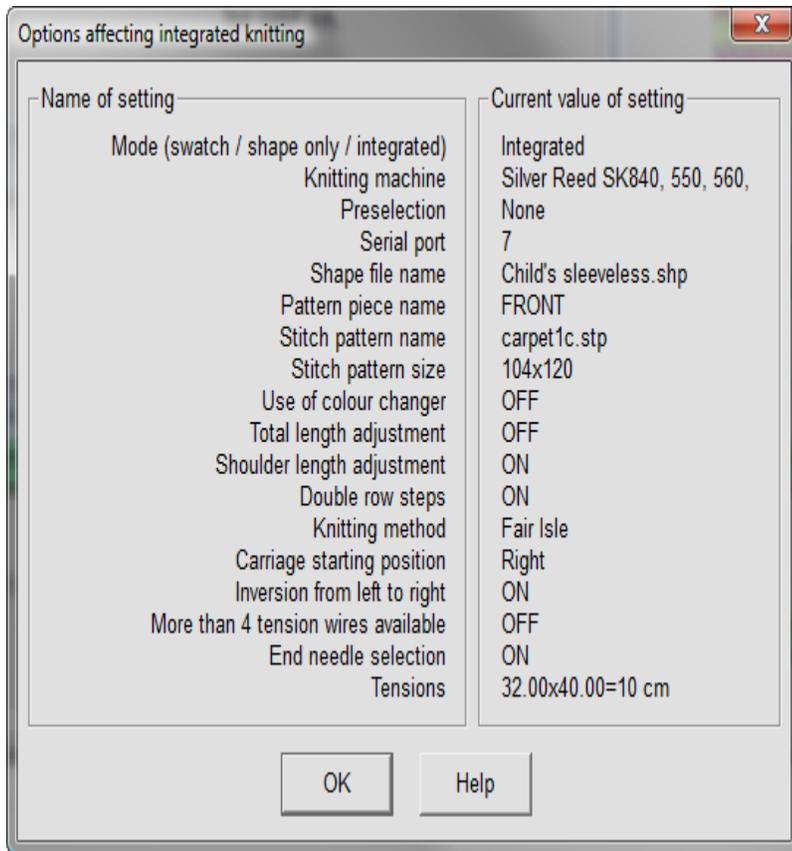
Info

This option gives you information regarding the current knitting pattern and how it affects the way in which it is to be knit.

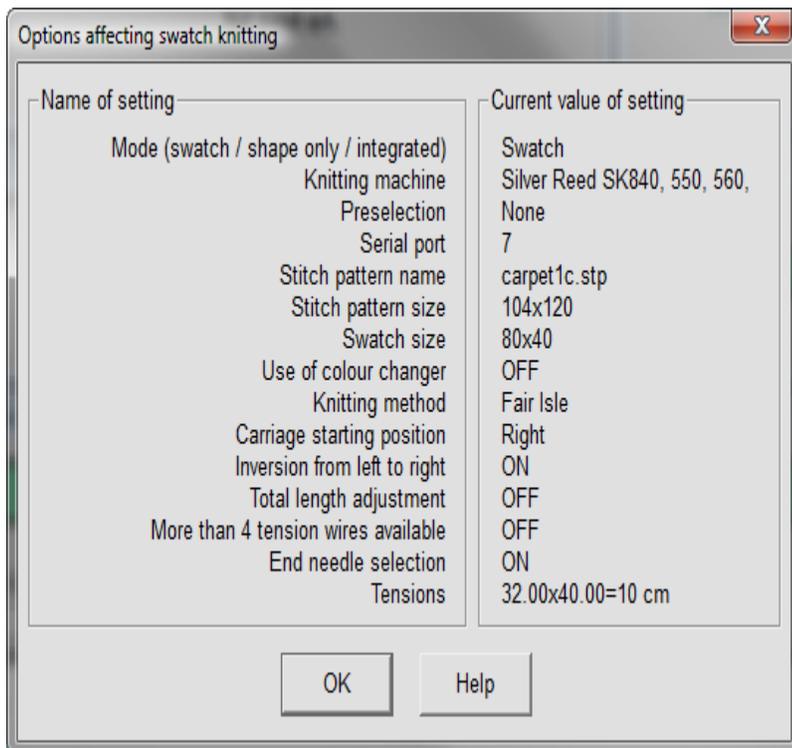
Shape-only



Integrated Shape



Stitch Pattern only (Swatch)



For a more detailed explanation of the items detailed in the information window, see the help for the menu item View/Info.



Open Shape File

Open a Shape file using the DesignaKnit Shapes Thumbnails Browser. The browser offers you search, sorting and information options which are not readily available in the normal Windows dialogue. When you first open a shape file, if there is more than one piece in the file, you will then be asked which piece you want to knit.



Open Stitch Pattern File

Open a stitch pattern file using the DesignaKnit Stitch Designer Thumbnails browser. The browser offers you search, sorting and information options which are not readily available in the normal Windows dialogue.



Next Pass

If you're knitting with a DesignaKnit Cable Link, the view is updated automatically with each pass of the carriage, but if you want to move on to the next row manually, click on this button'

Before recommencing knitting, click on the Amber Ready button and carry out any instructions necessary to configure the machine .

Alternatively, you can use the keyboard to move up the pattern in stages of 1, 5 or 20 rows:

- Press the **space bar** on the keyboard
- Press the **Up arrow key** on the keyboard
 - To move up by 5 rows at a time, hold down the **Shift** key while you do any of the above
 - To move up by 20 rows at a time, hold down the **Ctrl** key
 - You can use the mouse wheel to scroll up and down the pattern



End of Section

Advances the pattern to the end of the current section.

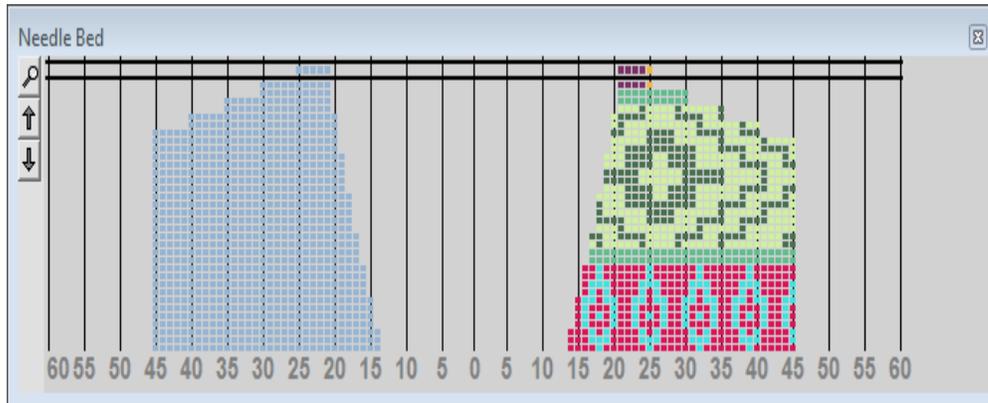
For a pattern swatch, this will be the last row, but for a shape or integrated shape, a section is defined by whether you are working an area which contains a part which cannot be knit across the entire width, such as the sides of a neck opening which is usually knit in two parts. The current section is always highlighted in the actual pattern colors with all the symbols showing, and any other sections, once they become visible in the Chart window will be shown in pale gray with no symbols or other pattern information. Thus, for the front of a V-neck sweater, there will be two sections: the first will commence at the start of the piece and continue to the top of the first shoulder and the second will start where the stitches are picked up for the second side of the neck.

At the point at which the knitting is divided, DesignaKnit will warn you to put the second section needles into holding position, but you may well find it preferable to pause the interactive knitting (click on the red traffic light) while you knit a few rows of waste yarn on these stitches.

If you want to preview the second section, you must first jump to the end of the first section and then either click on the Up button or use the keyboard (space bar or arrow key) to move up by one

row and DesignaKnit will jump to the first row of the next section, The instructions window will tell you to pick up the stitches.

The illustration shows the end of the first section. The second section is not yet active.



Previous Pass

Moves the pattern back one row at a time. If you ever have to unravel one or more rows, you can use this to wind the pattern back to where you want to start knitting again.

Before recommencing knitting, click on the Amber Ready button and carry out any instructions necessary to configure the machine .

Alternatively, you can use the keyboard to move up the pattern in stages of 1, 5 or 20 rows:

- Press the **Down** arrow key on the keyboard
 - To move down by 5 rows at a time, hold down the Shift key while you do any of the above
 - To move down by 20 rows at a time, hold down the Ctrl key
 - You can use the mouse wheel to scroll up and down through the pattern.



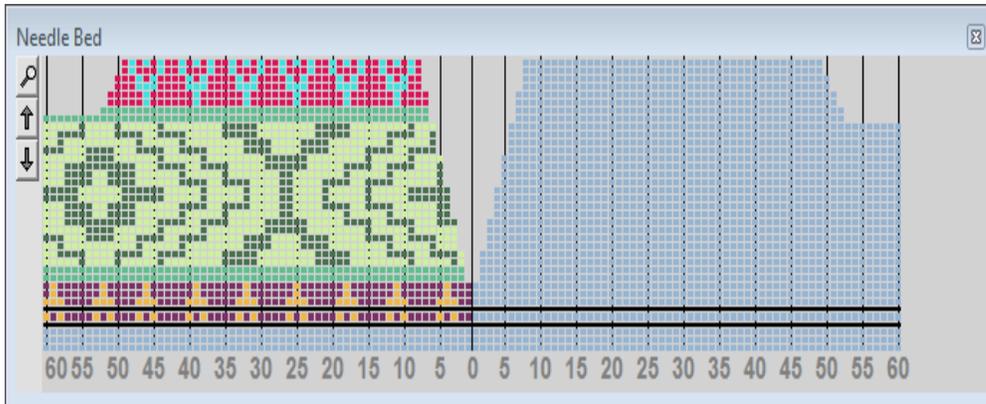
Start of Section

Advances the pattern to the end of the current section.

For a pattern swatch, this will be the first row, but for a shape or integrated shape, a section is defined by whether you are working an area which contains a part which cannot be knit across the entire width, such as the sides of a neck opening which is usually knit in two parts. The current section is always highlighted in the actual pattern colors with all the symbols showing, and any other sections, once they become visible in the Chart window will be shown in pale gray with no symbols or other pattern information. Thus, for the front of a V-neck sweater, there will be two sections: the first will commence at the start of the piece and continue to the top of the first shoulder and the second will start where the stitches are picked up for the second side of the neck.

If you want to preview the next section, you must first jump to the end of the first section and then either click on the Up button or use the keyboard (space bar or arrow key) to move up by one row and DesignaKnit will jump to the first row of the next section, The instructions window will tell you to pick up the stitches.

The illustration shows the start of the second section. The first section has been finished and the instruction window will tell you to pick up the stitches.



Bell Alerts

When knitting a shape, if you switch this option on, when you reach a row which requires some shaping to be done, a bell will sound - as long as you have your Windows sound configured to play through the speakers or headphones. The actual technique you use will be the symbol you used on the chart or the instructions in the pattern text window.

The bell will also sound when there is to be a change of color.



Verbal Instructions

When knitting a shape, if you switch this option on, when you reach a row which requires some shaping to be done, a voice will give you basic instructions for increasing, decreasing, holding or picking up. The actual technique you use will be the symbol you used on the chart or the instructions in the pattern text window.

If you haven't added shaping symbols, possibly because you didn't want to change the stitch pattern, you will have to decide how to do this without any specific instructions from DesignaKnit other than to increase or decrease however many stitches are shown on the Countdown window and on the Chart window.

The 'voice' will also tell you when to change the color and in which feeder.



Audible Warnings

Select this option to turn on audible warnings which are played through the computer's internal speaker. These are a different set of warnings from the bell and speech sounds: you can set up a series of sounds for different purposes, such as shaping or color changing instructions, so that when you reach that point in the pattern, DesignaKnit will warn you with that sound.

To change the tunes, select Options/Audible Warnings Setup.



Symbol Alerts

If you have added alerts to memo symbols in the Stitch Symbols Organizer and/or to cables in the Cables Organizer in Stitch Designer, you can turn this option on to hear a sound when you reach a row with that symbol or cable.

If a row contains more than one symbol or cable with an associated sound, it is only the first one which will play - you won't have to listen to a whole sequence!

TIP

If, having put Symbol Alerts on, you don't hear any sounds, check first that the alert is switched on in the Stitch Designer palette. If that's not the cause, check your Windows sound settings in Control Panel to see firstly that the speakers or earphones are configured, secondly that sounds are not muted and thirdly, in Control Panel, the Sound Scheme is *not* set to None: the sounds used as symbol alerts are related to the Windows sound scheme.



Visible Alerts/Highlights

When knitting a shape, if you switch this option on, when you reach a row which requires some shaping to be done, the Countdown + Instructions window will be highlighted.



Stop

This stops the program interacting with the knitting machine, whether it's downloading directly to the Silver Reed/Studio or registering the carriage passes of Brother/KnitKing or Pfaff/Passap machines.

If you want to pause the knitting while you do something else, or if you need to unravel one or more rows, you must first use the Stop command.

Also, when knitting a long stitch pattern which has to be downloaded in sections, whether on its own or integrated with a shape, click on the stop button before downloading the next installment, so that DesignaKnit keeps your place.

DesignaKnit will remember where you are, so even if you have to turn the computer off, when you come back to Interactive Knitting and load up the shape and/or stitch pattern, you can continue from where you left off - but don't forget to use Ready before you start knitting again.

or

press the **F2** key on your keyboard (but make sure that your keyboard is configured to use F numbers, not the alternative shortcuts shown on the same keys).

The Stop button will also be activated if you do any of these things while interactively knitting, in which case you will have to click on Go before you start knitting again:

- Click in the Progress Window
- Click on the Arrow buttons (or arrow keys/space bar on your keyboard)
- Select any of the Go menu options
- Click on the Color Changer button
- Also, if either of these two buttons is clicked, and the thumbnails dialogue is *canceled*
- Open Shape Thumbnails
- Open Stitch Pattern Thumbnails



Ready

Whenever you are about to start knitting, whether this is at the beginning of a pattern or piece or when you are returning after a break or after unraveling one or more rows, you should follow the

Ready instructions so that your carriage is properly synchronized with the program. When you have done this, click on OK which will close the dialogue and automatically turn on the Go button.

or

press the **F3** key on your keyboard (but make sure that your keyboard is configured to use F keys, not the alternative shortcuts shown on the same keys).



If you have just paused the knitting and wish to restart knitting interactively, you can just use the Go command.

Alternatively:

or

press the **F2** key on your keyboard (but make sure that your keyboard is configured to use F keys, not the alternative shortcuts shown on the same keys).

If you are starting at the beginning of the knitting, or the beginning of a section, or restarting after unraveling, you should look at the Ready instructions first to ensure you and the pattern are correctly synchronized. Clicking OK on the Ready dialogue will automatically switch on the Go button.

If, while the Go button is on you click in or on any of these places, the Stop button will be activated and to recommence you will have to click the Go button again, otherwise the carriage will be out of synch with the pattern.

- Progress Window
- Arrow buttons (or arrow keys/space bar on your keyboard)
- Go menu options
- Color Changer button
- Also, if either of these two buttons is clicked, and the thumbnails dialogue is *canceled*
- Open Shape Thumbnails
- Open Stitch Pattern Thumbnails



Color Changer

For machines which support a color changer, you can see at a glance whether DesignaKnit is giving you instructions commensurate with the status of the color changer. You can change this by clicking on the button.



Silver Reed/Studio/Singer

This button shows the current status of the Color Changer.



Color Changer **off**



Color Changer **on**

If your pattern is F (Fair Isle) method, this will reverse the needle selection and, for those rows which really are Fair Isle (i.e. two colors per row), will update the view in the Yarns window, so that you can see how the colors are to be fed to the carriage, but will not affect rows with any other knit technique.

For Jacquard patterns, this may affect how the colors are changed, so if the pattern was not originally checked for errors in Stitch Designer, you would be advised to return there to do this and to view the Yarn Numbers and Feeders option to configure any suppressed colors.



Brother/KnitKing, Toyota, Superba



Color Changer **off**



Color Changer **on**

If your pattern is F (Fair Isle) method, DesignaKnit will tell you if you need to turn the Negative Switch on or off for those rows which really are Fair Isle (i.e. two colors per row) and will update the view in the Yarns window, so that you can see how the colors are to be fed to the carriage, but will not affect rows with any other knit technique.

For Jacquard patterns, this may affect how the colors are changed, so if the pattern was not originally checked for errors in Stitch Designer, you would be advised to return there to do this and to view the Yarn Numbers and Feeders option to configure any suppressed colors.



Passap



Color Changer **off**



Color Changer **on**

For Jacquard patterns, this may affect how the colors are changed, so if the pattern was not originally checked for errors in Stitch Designer, you would be advised to return there to do this and to view the Yarn Numbers and Feeders option to configure any suppressed colors.

Interactive Machine Knitting Menus

The Menu bar gives you access to all the functions and options in Interactive Hand Knitting. Some of these also have equivalent shortcut buttons on the Tool Bar on the left hand side of the screen.

Shape File Thumbnails

Open a Shape file using the DesignaKnit Shapes Thumbnails Browser. The browser offers you search, sorting and information options which are not readily available in the normal Windows dialogue. When you first open a shape file, if there is more than one piece in the file, you will then be asked which piece you want to knit.

Open Shape File

Open a shape file using the normal Windows File/Open dialogue.

Select Piece

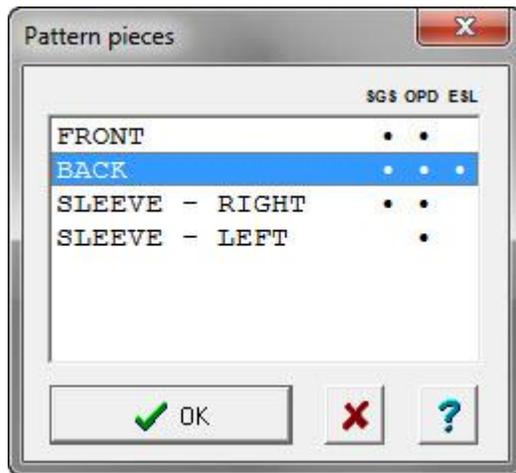
This is grayed out until a shape file has been opened.

When you first open a shape file, if there is more than one piece in the file, you will be asked automatically which piece you want to knit.

If the piece has not been integrated with a pattern, it will open directly in the workspace as Shape-only.

If the piece has been integrated with a stitch pattern, you will then have the choice of continuing to knit the integrated pattern or changing to Shape-only.

If you want to change to a different piece from the currently open file, choose this option.



Select the piece you want and click **OK**.

Each piece is marked with information regarding its origin and any editing that has been done.

The pieces in this example show that three of them were originated in Standard Garment Styling and were later edited in Original Pattern Drafting. The Back has had modifications made with Exact Stitch Layout. The left sleeve piece was originated in Original Pattern Drafting.

Exit

Closes this session of DesignaKnit. Your current settings, including the place you have reached in your knitting will be saved and ready for you to carry on when you next open that file

Stitch Pattern File Thumbnails

Open a stitch pattern file using the DesignaKnit Stitch Designer Thumbnails browser. The browser offers you search, sorting and information options which are not readily available in the normal Windows dialogue.

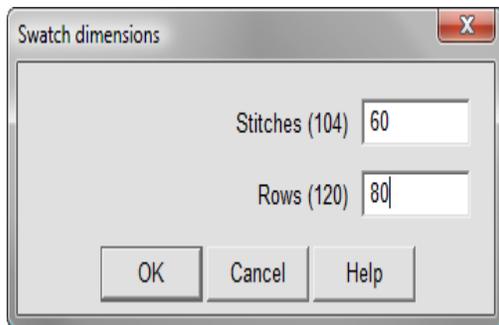
Open Stitch Pattern File

Open a stitch pattern using the normal Windows File/Open dialogue

Swatch Size

This is grayed out until a stitch pattern file has been opened. When you first open a stitch pattern file you will be asked automatically the size of the swatch you want to knit, whether this is a sample tension swatch or the entire pattern. The figures given in brackets show the size of a single pattern repeat of the saved pattern. You can decide whether to knit a partial pattern, a full repeat or a number of repeats, but remember that DesignaKnit will center the pattern on the needle bed.

If you want to change to a different swatch size for the currently open stitch pattern, this option will be available.



When you have set the number of stitches and rows, click OK.

Exit

Closes this session of DesignaKnit. Your current settings, including the place you have reached in your knitting will be saved and ready for you to carry on when you next open that file

Edit

Copy

Places a picture of the current Interactive Machine Knitting Screen onto the clipboard, so you can paste it into another application, such as a word processor, publishing or graphics program.

View

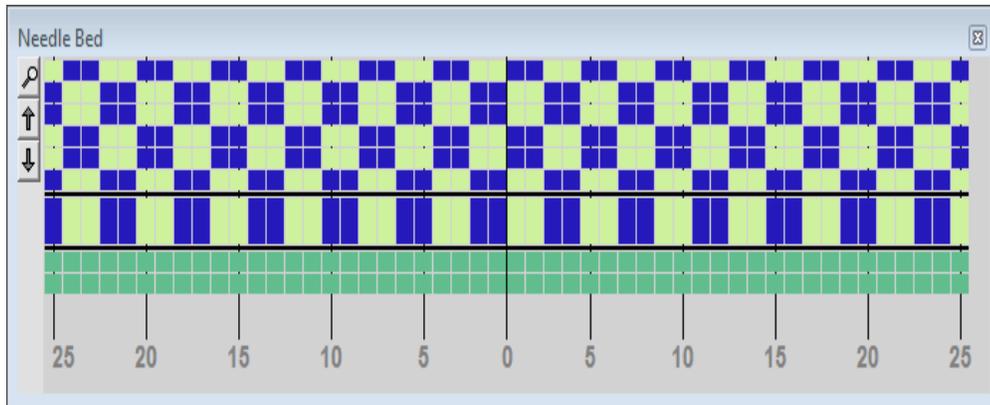
Zoom Chart Window

This changes the zoom level of the Chart Window.

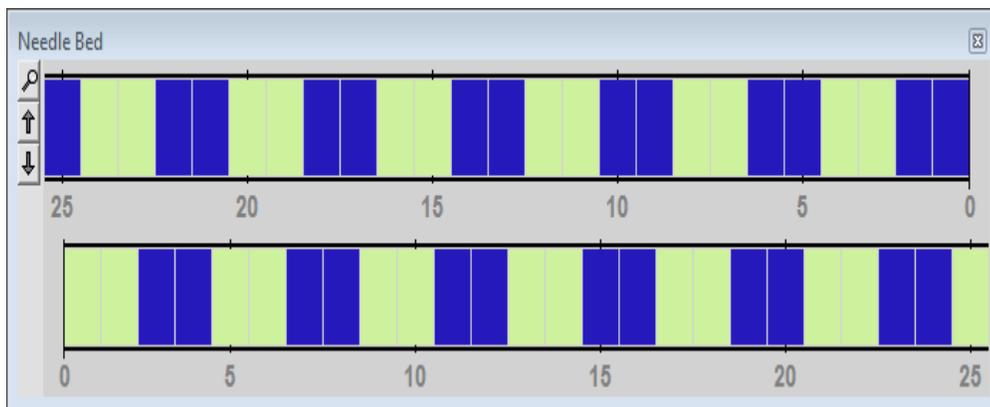
This option cycles through three stages:

1. Full width of the pattern chart

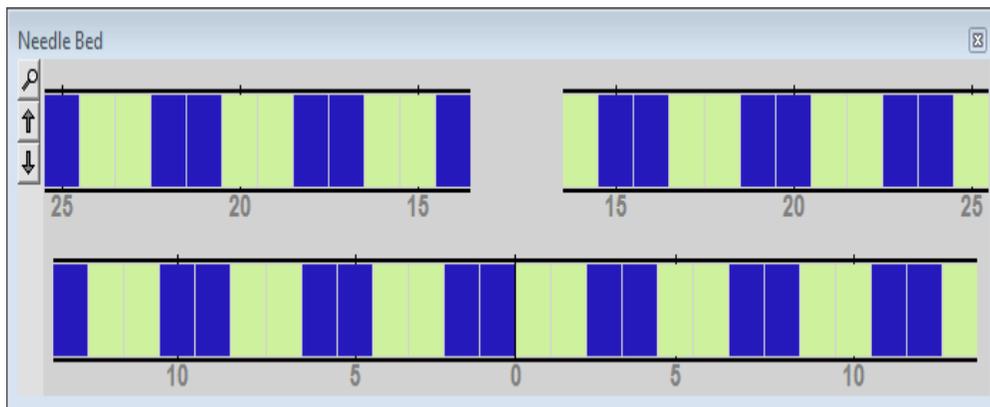
The wider the pattern, the smaller the chart will appear in order to fit into the window, so to see it more clearly, change to the next zoom level:



2. Enlarged chart shown in two sections

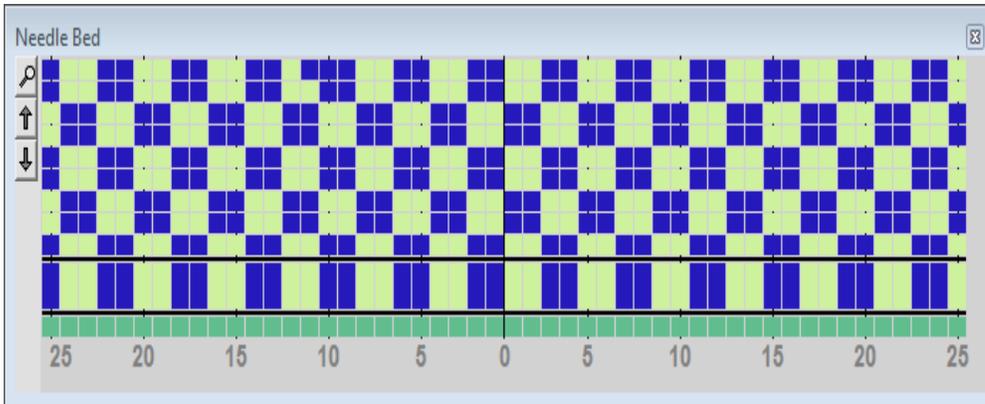


3. Enlarged chart shown in three sections



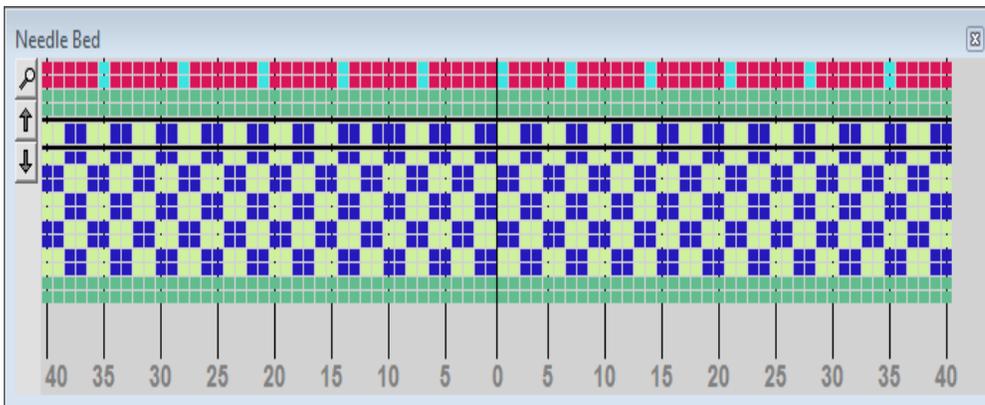
Above Current

This shows the current row, which is highlighted, at the bottom of the chart window with the next row or rows above it. The number of rows shown above will depend on the zoom level. At the second level of zoom (two sections) it may not be possible to show more than the current row, but at the third level the next row is usually shown.



Below Current

This option shuffles the pattern in the chart window so that the row below is in view. At the second level of zoom (two sections) it may not be possible to show more than the current row, but at the third level the previous row is usually shown.

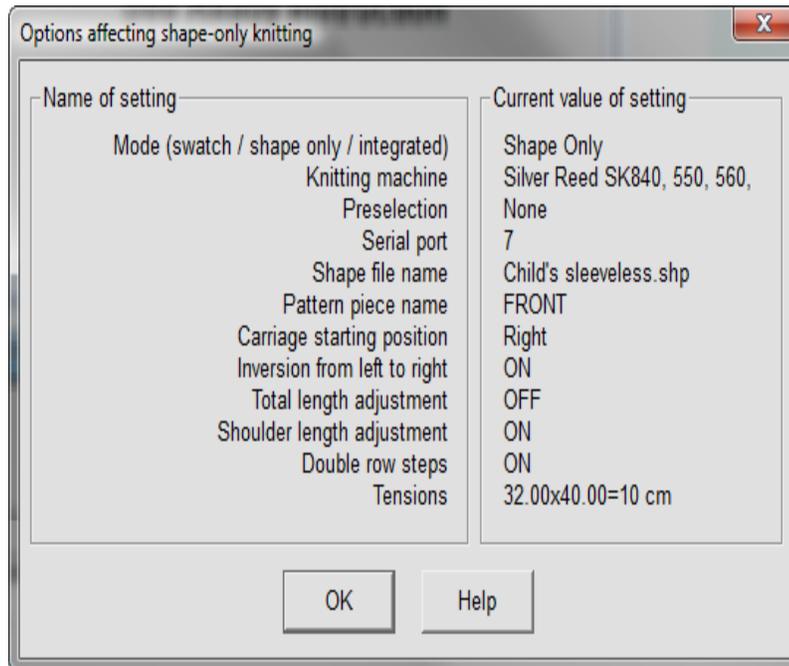




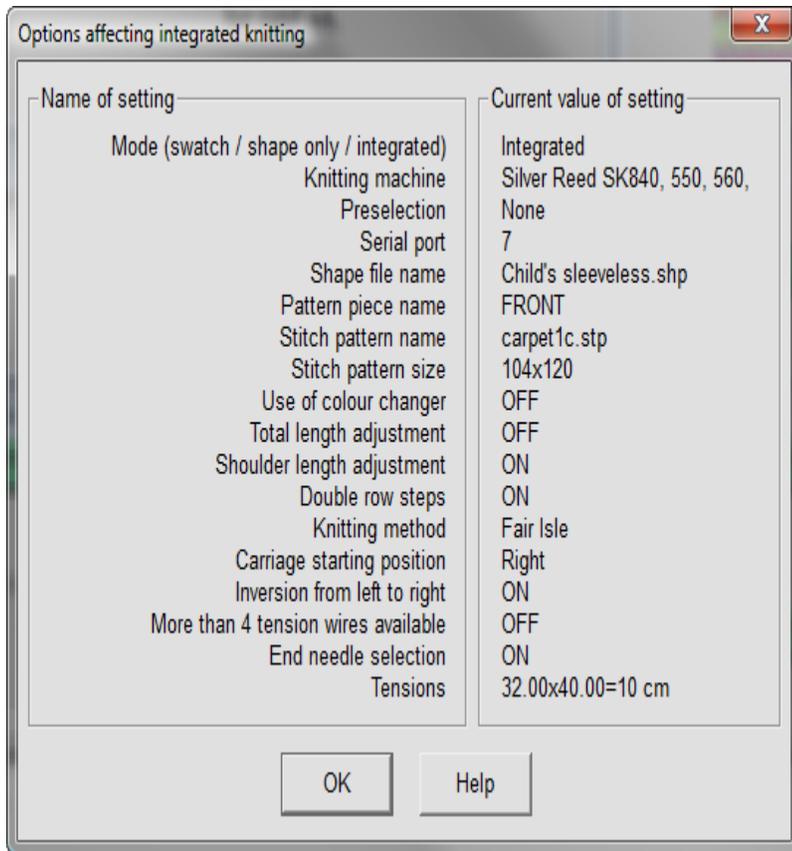
Info

This option gives you information regarding the current knitting pattern and how it affects the way in which it is to be knit.

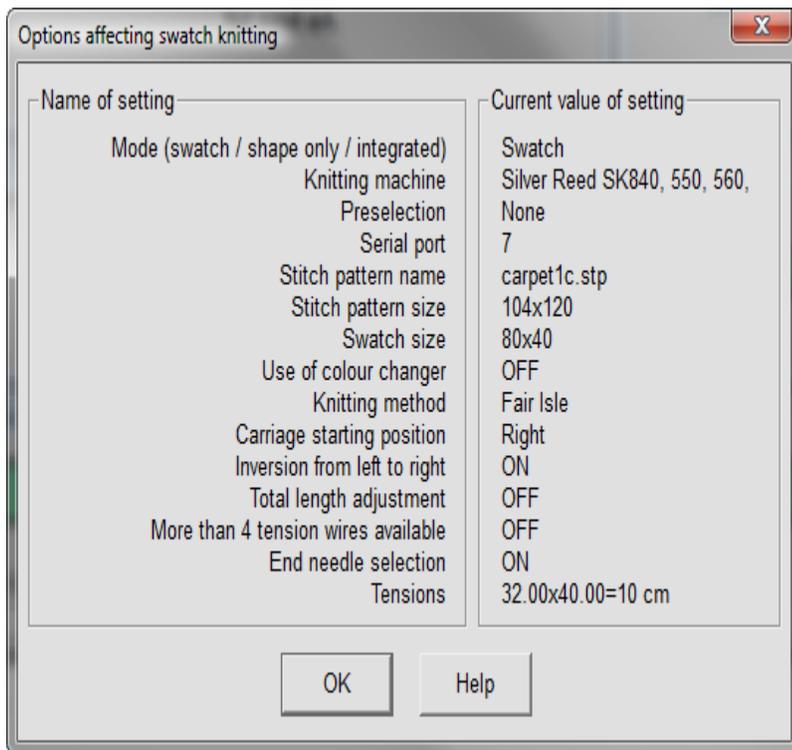
Shape-only



Integrated Shape



Stitch Pattern only (Swatch)



Mode

Mode describes the type of knitting instructions according to the file opened: Swatch, Shape Only or Integrated.

Normally the mode is changed only when a file of a different type is opened, however, when an integrated shape is displayed, selecting Options / Shape will alter the mode for that file by removing the stitch pattern instructions. Conversely, when displaying a file as shape-only, unchecking this option will change the mode to Integrated if the shape has been integrated, otherwise a message will inform you that this piece has not been integrated.

Knitting Machine

Knitting Machine displays the currently selected knitting machine. To choose a different machine select Options/Knitting Machine.

Cables are available for interactive knitting with most Brother and Silver Reed Electronic machines, Pfaff/Passap E6000 machines and all punch card machines. Electronic machines for which there are no specific cables can be used with a ScreenLink.

Preselection

If Preselection is appropriate for the machine and Mode, the method of pre-selection is indicated here. Brother and Toyota machines work one preselect row using the main yarn only, the AG50 one pre-select row and the E6000 works the standard SX/GX set-up rows with no yarn in the lock.

Where technique 179 is selected for the E6000 machine, an extra pre-selection row is included. This is knit after the SX/GX rows have been worked in accordance with the console instructions and adds one lock pass with main yarn in the feeder, leaving the locks in place to start the pattern as separated by this technique.

Serial Port

Serial Port (also referred to as COM port) indicates which serial port is configured for the cable link. This is also the case when using the USB to Serial Port adaptor, or a USB cable

If the information is not correct, change the setting by selecting Options/Knitting Machine/Setup.

Shape File Name

Shape File Name is the file name of the currently displayed shape.

To select a piece from a different file select Shape File / Open Shape File.

Pattern Piece Name

Pattern Piece Name is the name of the currently displayed shape file piece, e.g.: back; front; left sleeve.

To select a different piece from the same shape file choose Shape File/Select Piece.

Stitch Pattern Name

Stitch Pattern Name is the name of the currently displayed stitch pattern.

Where Mode is Swatch the stitch pattern can be changed by selecting Stitch Pattern File/Open Stitch Pattern File.

Where Mode is Integrated, the stitch pattern on the shape piece can only be changed by integrating the shape piece with a new stitch pattern in the Stitch Designer section. Selecting Stitch Pattern File/Open Stitch Pattern File will replace the Integrated piece with a swatch and change the mode.

A Stitch Pattern Name is not displayed if the Mode is Shaping Only.

Stitch Pattern Size

Stitch Pattern Size is the number of stitches and rows in one repeat. This is displayed when Swatch or Integrated are the selected Mode.

The size of the stitch pattern should not be confused with the Swatch size. The Stitch Pattern Size can only be changed in Stitch Designer. However, to adjust the size of the swatch, select Stitch Pattern File/Swatch Size. If the swatch size is larger than the stitch pattern, as many repeats or part repeats as are necessary to fill the swatch will be displayed. If the swatch size is smaller than the stitch pattern, the part of the pattern which will knit/display will be from the center to the left and right limits of the swatch size, from the bottom row upwards.

Swatch Size

Swatch Size is the number of stitches and rows you selected to knit in the Swatch Dimensions dialogue box. It is displayed only when the selected Mode is Swatch.

Selecting Stitch Pattern File / Swatch Size opens the Swatch Size dialogue box. Type in the number of stitches and rows you wish to knit and click the OK button.

The numbers in braces show the stitches and rows in a single repeat of the chosen pattern. Change the size by selecting Stitch Pattern File / Swatch Size. DesignaKnit will not allow a swatch size to be larger than the number of needles available on the selected knitting machine.

Note: The size of the stitch pattern should not be confused with the Swatch size. The Stitch Pattern Size can only be changed in Stitch Designer. However, to adjust the size of the swatch, select Stitch Pattern File/Swatch Size. If the swatch size is larger than the stitch pattern, as many repeats or part repeats as are necessary to fill the swatch will be displayed. If the swatch size is smaller than the stitch pattern, the part of the pattern which will knit/display will be from the center to the left and right limits of the swatch size, from the bottom row upwards.

Use of color Changer

Use of color Changer is configured either on or off. Change the setting as necessary by selecting Options / Knitting Machine / Setup.

Carriage Starting Position

The Carriage Starting Position shown in the Information dialogue is the position when starting to knit the main fabric, after any pre-select row has been completed.

The carriage starting position may be determined by whether a color changer is in use or not. Select Options/Knitting Machine/Set-up to configure the color changer on or off.

Shape Only

Knitting will commence with the carriage at right (CAR) unless, in Knitting Machine Set-up, the check box is ticked next to "Start swatch with CAL (if changer not used)", when it will start at the left.

Jacquard Knitting

Where color Changer is configured ON, there are two factors which affect the carriage starting position:

- The type of color changer being used and to which end of the needle bed it is attached. This will depend on which knitting machine is currently configured - select Options/Knitting Machine/Setup.

- The color separation method used. This is configured independently for each type of knitting machine used and for different methods of knitting - select Options/Knitting Machine/Setup/Jacquard.

Where color Changer is configured OFF, knitting will commence with the carriage at right (CAR) unless, in Knitting Machine Set-up, the check box is ticked next to "Start swatch with CAL (if changer not used)", when it will start at the left.

Where the Mode is Integrated and color Changer in Use is configured OFF, the carriage starting position is determined by the Integrated Shape configuration. Select Shapes / Integrate in Stitch Designer, left click on the CAL check box next to each piece if you wish to start the main knitting with Carriage at Left. If the CAL box is not checked, the default settings configured in the Knitting Machine Set-up will apply.

Fair Isle Knitting

Where color Changer in Use is configured OFF, knitting will commence with the carriage at right unless, in Knitting Machine Set-up, the check box is ticked next to "Start swatch with CAL (if changer not used)", when it will start at the left.

Where color Changer in Use is configured ON, the carriage starting position depends on the type of knitting machine in use. Brother, Silver Reed and Toyota machines normally start with the carriage at left.

Where the Mode is Integrated and color Changer in Use is configured OFF, the carriage starting position is determined by the Integrated Shape configuration. Select Shapes/Integrate in Stitch Designer, left click on the CAL check box next to each piece if you wish to start the main knitting with Carriage at Left. If the CAL box is not checked, the default settings configured in the Knitting Machine Set-up will apply.

Intarsia, Right and Wrong side facing fabrics

Knitting will commence with the carriage at right unless, in Knitting Machine Set-up, the check box is ticked next to "Start swatch with CAL (if changer not used)", when it will start at the left.

Where the Mode is Integrated, the carriage starting position is determined by the Integrated Shape configuration. Select Shapes/Integrate in Stitch Designer, left click on the CAL check box next to each piece if you wish to start the main knitting with Carriage at Left. If the CAL box is not checked, the default settings configured in the Knitting Machine Set-up will apply.

Total Length Adjustment

The Total Length Adjustment affects Jacquard separated by methods A - D. Total Length Adjustment automatically converts a swatch or shape piece containing an odd total number of rows, to an even total number, by adding a single row of pattern.

Shoulder Length Adjustment

Unless knitting Jacquard with separation methods B, E or F, the number of rows along a shoulder is converted to an odd number of rows by adjusting the neck depth. This method ensures that round necks, and other similar features, have symmetrical cast off or hold instructions.

Double Row Steps and Fine Shaping

Double Row Steps

Double Row Steps are used to ensure that Cast on, Cast off and Hold shaping operations take place only when the carriage is suitably positioned .

When Jacquard is knit using separation methods B, E or F, the carriage travels in both directions for each pattern row and therefore gentle slopes are shaped in single row steps.

Fine Shaping Details

When knitting by any method other than Jacquard separation B, E or F the nature of the steps for any given slope is determined by configuring Diagonals, Seams and Shaping Method (Cast off or Hold) options in Original Pattern Drafting.

Standard Garments have predefined values for each slope. However, users of DesignaKnit Professional can take a standard garment into Original Pattern Drafting and reconfigure the Diagonals, Seams and Shaping Method.

Cut and Sew outlines are marked using single row steps to keep the outline as close as possible within one stitch/row of the piece's original shape.

Knitting Method

The Knitting Method is assigned to the stitch pattern by selecting Options/Method of Knitting in Stitch Designer.

Fair Isle, Right and Wrong Side Facing fabrics only: Needle selection is determined in Stitch Designer by configuring the colors in the Yarn color palette either as Selecting or Non-Selecting.

Inversion from Left to Right

Shape pieces are displayed in Standard Garment Styling, Original Pattern Drafting and, when integrated, in Stitch Designer with the right side facing. Pieces taken into Interactive Knitting or printed out are subject to the following rules:

Brother, Silver Reed, Singer and Toyota

- Pieces are inverted for Shape only, Fair Isle, Jacquard, Intarsia and Wrong Side Facing Knitting Methods.
- Pieces are not inverted for Right Side Facing Knitting Methods. (weave and purl side tuck stitch are examples of Right Side Facing fabrics.)

Pfaff/Passap

- Pieces are inverted for Right Side Facing Knitting Methods. (Purl side tuck stitch is an example of a Right Side Facing fabric.)
- Pieces are not inverted for Shape only, Jacquard, Intarsia and Wrong Side Facing Knitting Methods.

Hand Knitting

- The Hand knitting method assumes that if the knitting is done on two needles the 'right' side is facing for a 'right' side row and 'wrong' side facing for a 'wrong' side row or, if circular knitting has been configured, that the 'right' side is outermost.
- Therefore DesignaKnit will not invert the shapes or the stitch pattern, but for flat knitting the Needle Bed window chart in Interactive Knitting will reverse stitch numbering for each row, thus indicating the direction from which to read the chart for that row: this will match the direction of knitting shown in the Progress window.

Color Separation Method

Color Separation Method for Jacquard knitting is configured by selecting Options / Knitting Machine / Setup / Jacquard.

More than 4 Tension Wires Available

More than 4 Tension Wires may be used for Fair Isle knitting when use of color Changer is configured ON and there is an extra tension mast attached to the machine. The extra tension mast allows the main yarn to be threaded separately freeing all four color changer holders for the contrast yarns. This option applies to Japanese machines only.

To use this option, select Options/Knitting Machine/Setup and click the check box next to "More than 4 Tension Wires Available for Fair Isle, etc." .

End Needle Selection

End Needle Selection should be configured ON when knitting Fair Isle on a machine with automatic end needle selection. It is used to inform DesignaKnit not to stop contrast yarn for plain rows within a Fair Isle design, thus avoiding dropped end stitches.

End Needle Selection is configured by selecting Options/Knitting Machine/Setup and left clicking on the check box next to End Needle Selection.

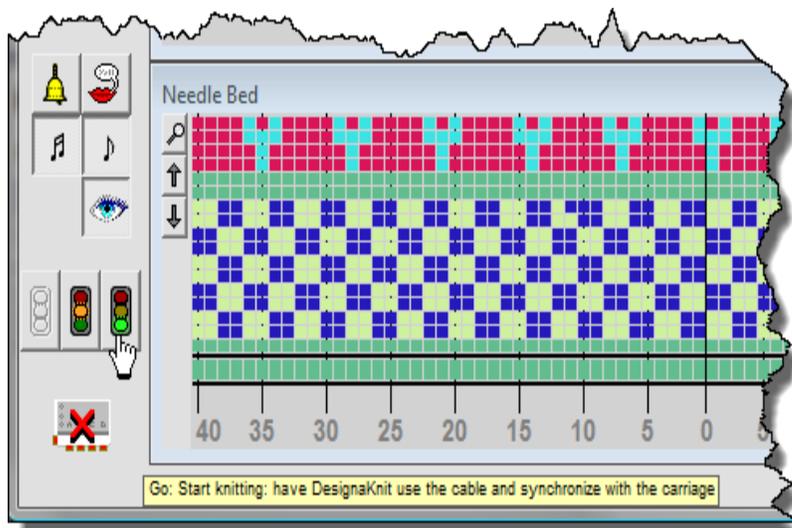
Tensions

DesignaKnit allows any one of three methods for measuring tensions. More information

- The most popular method currently used is to measure a marked section of 40 stitches and 60 rows and enter this measurement in either centimeters or inches, depending on how the program has been configured in Options/Units of Measurement.
- Knitters using gauge scales that show the number of stitches and rows per 10 centimeters or 4 inches, such as the Silver Reed "Green or Blue Rulers" can continue to measure in that way.
- Knitters who count the number of stitches and rows per inch can also continue to do so, although this is generally accepted as being the least accurate method.

Hints

If this option is ticked, when you hover the cursor over a button on the Tool Bar or on a menu item, a description of what it's for is shown at the bottom of the work area screen:



Go

Next Pass

If you're knitting with a DesignaKnit Cable Link, the view is updated automatically with each pass of the carriage, but if you want to move on to the next row manually, use the **Go/Next Pass** option.

Before recommencing knitting, click on the Amber Ready button and carry out any instructions necessary to configure the machine .

Alternatively, to move up through the pattern one row at a time:

-  Click on the **Next Pass** button on the tool bar
- Press the **space bar** on the keyboard
- Press the **Up arrow key** on the keyboard
 - To move up by 5 rows at a time, hold down the Shift key while you do any of the above
 - To move up by 20 rows at a time, hold down the Ctrl key
 - Use the mouse wheel to scroll through the pattern

Previous Pass

Use this command to go back to the previous pass. This may be necessary to check needle selection and shaping after unraveling to correct a mistake.

Before recommencing knitting, click on the Amber Ready button and carry out any instructions necessary to re-program the pattern.

Alternatively, wind back the view by one row at a time, use one of these three methods:

-  Click on the **Previous Pass** button on the tool bar
- Press the **Down** arrow key on the keyboard
 - To move down by 5 rows at a time, hold down the Shift key while you do any of the above
 - To move down by 20 rows at a time, hold down the Ctrl key
 - Use the mouse wheel to scroll through the pattern

Start of Section

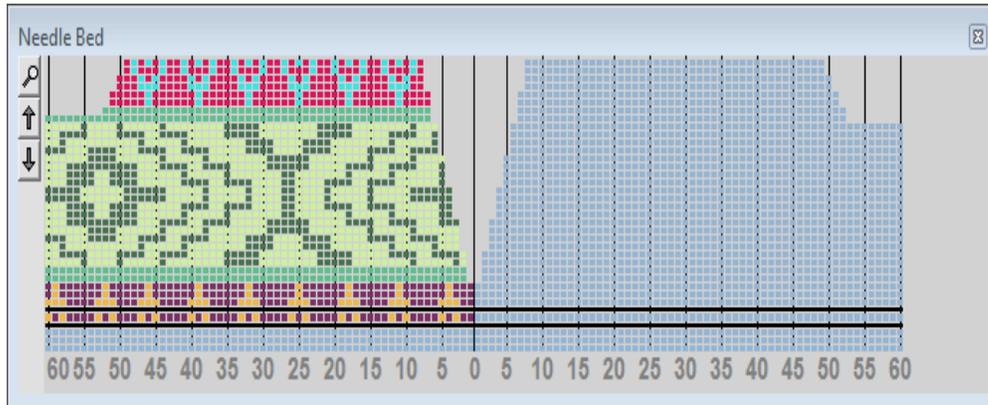
Advances the pattern to the end of the current section.

Alternatively, click on the **Start of Section** button 

For a pattern swatch, this will be the first row, but for a shape or integrated shape, a section is defined by whether you are working an area which contains a part which cannot be knit across the entire width, such as the sides of a neck opening which is usually knit in two parts. The current section is always highlighted in the actual pattern colors with all the symbols showing, and any other sections, once they become visible in the Chart window will be shown in pale gray with no symbols or other pattern information. Thus, for the front of a V-neck sweater, there will be two sections: the first will commence at the start of the piece and continue to the top of the first shoulder and the second will start where the stitches are picked up for the second side of the neck.

If you want to preview the next section, you must first jump to the end of the first section and then either click on the Up button or use the keyboard (space bar or arrow key) to move up by one row and DesignaKnit will jump to the first row of the next section, The instructions window will tell you to pick up the stitches.

The illustration shows the start of the second section. The first section has been finished and the instruction window will tell you to pick up the stitches.



End of Section

Advances the pattern to the end of the current section.

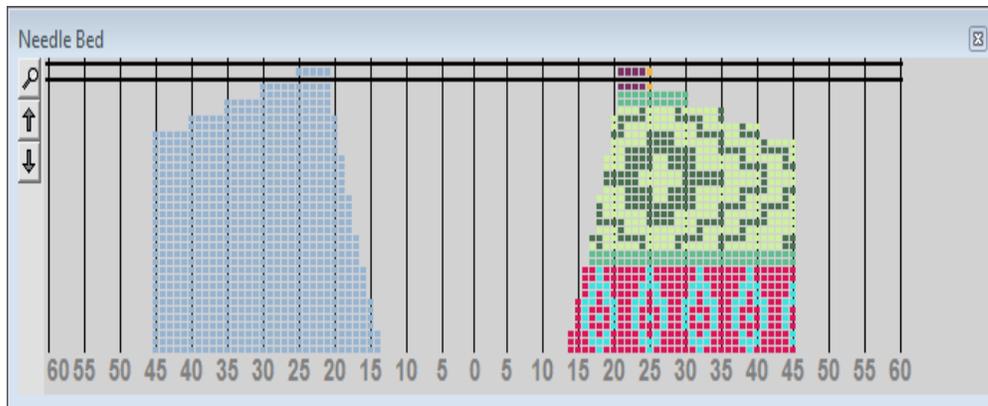
Alternatively, click on the End of Section button 

For a pattern swatch, this will be the last row, but for a shape or integrated shape, a section is defined by whether you are working an area which contains a part which cannot be knit across the entire width, such as the sides of a neck opening which is usually knit in two parts. The current section is always highlighted in the actual pattern colors with all the symbols showing, and any other sections, once they become visible in the Chart window will be shown in pale gray with no symbols or other pattern information. Thus, for the front of a V-neck sweater, there will be two sections: the first will commence at the start of the piece and continue to the top of the first shoulder and the second will start where the stitches are picked up for the second side of the neck.

At the point at which the knitting is divided, DesignaKnit will warn you to put the second section needles into holding position, but you may well find it preferable to pause the interactive knitting (click on the red traffic light) while you knit a few rows of waste yarn on these stitches.

If you want to preview the second section, you must first jump to the end of the first section and then either click on the Up button or use the keyboard (space bar or arrow key) to move up by one row and DesignaKnit will jump to the first row of the next section, The instructions window will tell you to pick up the stitches.

The illustration shows the end of the first section. The second section is not yet active.



RC

If you want to find a specific place quickly, enter the Row Counter number here.

Note that this is not necessarily the row number of the stitch pattern: if you are knitting a repeating pattern, the Row Counter shows the overall total number of carriage passes, not the where you were in any repeat.

Before recommencing knitting, click on the Amber Ready button and carry out any instructions necessary to re-program the pattern.

Stop

This stops the program interacting with the knitting machine, whether it's downloading directly to the Silver Reed/Studio or registering the carriage passes of Brother/KnitKing or Pfaff/Passap machines.

If you want to pause the knitting while you do something else, or if you need to unravel one or more rows, you must first use the Stop command.

Also, when knitting a long stitch pattern which has to be downloaded in sections, whether on its own or integrated with a shape, click on the stop button before downloading the next installment, so that DesignaKnit keeps your place.

DesignaKnit will remember where you are, so even if you have to turn the computer off, when you come back to Interactive Knitting and load up the shape and/or stitch pattern, you can continue from where you left off - but don't forget to use Ready before you start knitting again.

Alternatively:



Click on the Stop button

or

press the **F2** key on your keyboard (but make sure that your keyboard is configured to use F numbers, not the alternative shortcuts shown on the same keys).

The Stop button will also be activated if you do any of these things while interactively knitting, in which case you will have to click on Go before you start knitting again:

- Click in the Progress Window
- Click on the Arrow buttons (or arrow keys/space bar on your keyboard)
- Select any of the Go menu options

- Click on the Color Changer button
- Also, if either of these two buttons is clicked, and the thumbnails dialogue is *canceled*
- Open Shape Thumbnails
- Open Stitch Pattern Thumbnails

Ready

Whenever you are about to start knitting, whether this is at the beginning of a pattern or piece or when you are returning after a break or after unraveling one or more rows, you should follow the Ready instructions so that your carriage is properly synchronized with the program. When you have done this, click on OK which will close the dialogue and automatically turn on the Go button.

Alternatively:



Click on the Ready button

or

press the **F3** key on your keyboard (but make sure that your keyboard is configured to use F keys, not the alternative shortcuts shown on the same keys).

Go

If you have just paused the knitting and wish to restart knitting interactively, you can just use the Go command.

Alternatively:



Click on the Go button

or

press the **F2** key on your keyboard (but make sure that your keyboard is configured to use F keys, not the alternative shortcuts shown on the same keys).

If you are starting at the beginning of the knitting, or the beginning of a section, or restarting after unraveling, you should look at the Ready instructions first to ensure you and the pattern are correctly synchronized. Clicking OK on the Ready dialogue will automatically switch on the Go button.

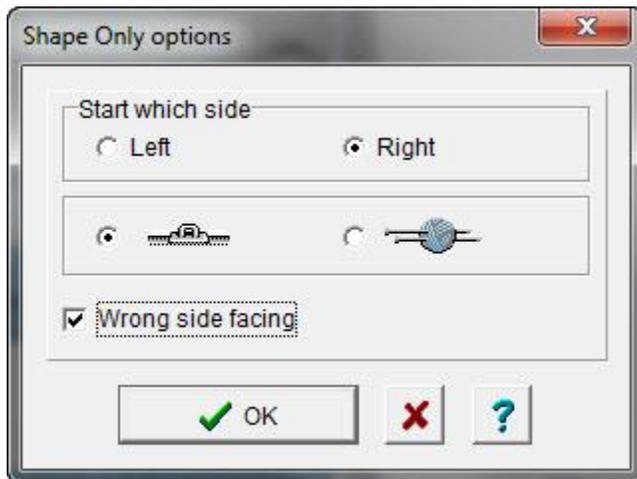
If, while the Go button is on you click in or on any of these places, the Stop button will be activated and to recommence you will have to click the Go button again, otherwise the carriage will be out of synch with the pattern.

- Progress Window
- Arrow buttons (or arrow keys/space bar on your keyboard)
- Go menu options
- Color Changer button
- Also, if either of these two buttons is clicked, and the thumbnails dialogue is *canceled*
- Open Shape Thumbnails
- Open Stitch Pattern Thumbnails

Options

Shape-only

If you are currently set up with an integrated shape, you can quickly remove the stitch pattern and knit the shape alone. You need only to indicate in the next dialogue the starting position of the carriage (Left or Right) and whether the you have the 'wrong' side facing as you knit. The pattern text instruction window will be closed as it will be assumed that you will be knitting plain or reverse stocking stitch or a pattern from your machine's memory.



To revert to your integrated pattern, go back and re-select this option to turn it off.

Method of Knitting

You can use this dialogue to change the knitting machine, the machine setup as well as change the method of knitting.

Complete Version: if the current method is set to Hand Knitting, click on the



button at the bottom left of the dialogue to access the machine options.

You should be aware that you will not have the opportunity to undo any changes you make, and they will be applied to the current stitch pattern and/or shape.

Some techniques can be swapped easily - for instance, a Wrong Side Tuck pattern can be exchanged for a Right Side Tuck pattern, but most other changes would be ill-advised at this stage and would be better executed in Stitch Designer where you will have the opportunity and means to preview the pattern, check the changes for errors and download the revised pattern to machines with an independent memory. You can, however, use this to run through the pattern to see the effect of color changes etc.

Knitting Machine

If you want to change the current knitting machine to another, or change the setup, you can select this item as an alternative to the Method of Knitting dialogue. To select a machine, just scroll through the list and highlight the one you want by clicking on it. If you want to make additional changes or check the configuration, click on the Setup button.

As a reminder, these are the criteria which attach to the various machine methods:

Fair Isle (F)

You should select this method for machines that will knit the two colors in a single pass. You can mix color pattern and stitch texture, but not in the same row. When you select this method, the rules are:

- You may not have more than two colors in any one row
- You must have one Non-Selecting (Rear Feeder) and one Selecting (Front Feeder) color in a Fair Isle row
- You may not have more than two Smart Symbols for stitch textures in any one row
- Smart Symbols will automatically set the selections for themselves and the main stitch for the rows in which they are used
- You can only have one color in a row which has Smart Symbol textures, with the exception of Thread Lace. For this technique you can use a selecting color underneath the Thread Lace Symbols
- If you are using a Garter Carriage, the Purl Stitch is the selecting stitch
- The Main Stitch is always Knit, but the needles will select either according to the colors in Fair Isle rows or according to any Smart Symbols used in texture rows

Choose the Fair Isle Method for:

- Fair Isle knit on a Brother, Silver Reed or Toyota machine. Design the pattern as it will look when finished, with the Knit (plain) side facing you - DesignaKnit will flip the pattern horizontally when downloading because the programmable bed on these machines is the back bed and the reverse side of the fabric faces you as you knit.
- Any pattern of mixed techniques but which includes a band or bands of Fair Isle
- Thread Lace patterns, if your machine has a Thread Lace setting.
- Lace knitting and (for Brother electronic machines and Silver Reed machines) lace which is combined with Fair Isle and Fair Isle and textured knitting.
- Garter stitch patterns knit with the Brother Garter Carriage
- Hand knitting patterns which follow the same rules as those for machine Fair Isle (see above).

Do not choose Fair Isle Method when:

- patterns with a maximum of two colors in a row are knit with the colors separated rather than simultaneously. For this method, select 2-color Jacquard.
- a Pfaff/Passap machine is configured: the Fair Isle option will not be available as these machines cannot knit two colors simultaneously, so choose 2-color jacquard instead.

Intarsia (I)

This is a method of knitting separate areas of color without floats - that is, each color area is knit from a separate cone or ball. The yarns must then be crossed on each row at the point where one finishes and the next one starts in order that holes or gaps are not created between the colors.

With the exception of the Silver Reed AG50 Intarsia carriage which is specially designed for Intarsia knitting, you cannot download Intarsia patterns to a knitting machine, as this is an entirely manual technique whereby all the needles in use must be brought forward manually and the yarns laid across the needle bed according to the pattern. Please see your machine manual for specific instructions, particularly with regard to carriage settings.

There are no rules about the number of colors or stitch types you can show in any row which means you have complete freedom to mix color and texture how you will, but there are some restrictions as to how the pattern will behave when downloaded and in Interactive Knitting:

- When downloaded to the AG50 Intarsia Carriage, the **colors** will select needles for knitting but the stitch types will be ignored
- In Interactive Knitting only the instructions for color changing will be given.

Intarsia is primarily a method of producing multicolored work, but stitch textures, including cables can also be used, but any such technique will usually have to be performed by hand. If you are following Interactive Knitting, any stitch or cable symbols in the pattern will be displayed on the needle bed window, so that you can follow the chart - and of course you can configure them to give you an audible alert if you wish.

Jacquard (2, 3, 4, 5 or 6)

Jacquard patterns are achieved by knitting each color separately onto selecting needles, with the main carriage set to 'slip'. You can knit either single or double-bed Jacquard, but if the latter, then you should understand that DesignaKnit can only program the main needle bed, not the ribber or secondary needle bed.

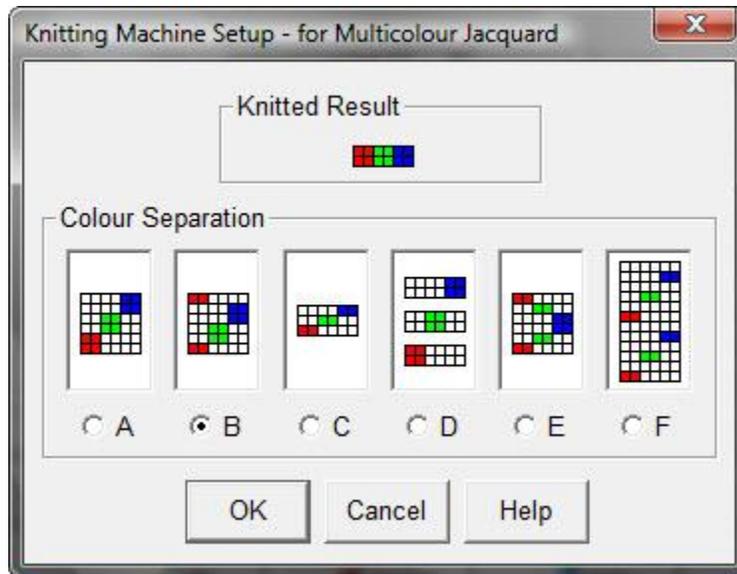
When you assign a Jacquard method, you should choose the one that is consistent with the maximum number of colors in a row, not in the whole pattern. Use the Check function in Stitch Designer to determine the number of colors in a row, and to mark any rows where there are too many, as well as checking for any errors in the pattern. You should then use the View/Yarn Numbers and Feeders option in Stitch Designer to make any final adjustments.

When you download to the machine, or print a punch card template, DesignaKnit will separate the colors and if you follow Interactive Knitting, it will tell you the order in which to knit them.

You cannot use texture in a Jacquard pattern, but you may have up to six colors in any one row. If you want to use texture in the project or on part of a garment piece, then this must be downloaded as a separate pattern.

Jacquard Separation Methods

Click the Jacquard button on the Setup dialogue to view and select the methods available. DesignaKnit will automatically allocate the method most suited to your machine, but you may change this if you wish.



For more information on the separation of colors, see the section on Yarns Numbers and Feeders in Stitch Designer's Help.

Right or Wrong Side Facing (R or W)

NB

In this context, Right and Wrong side are the terms commonly used outwith the industry and refer to the finished *effect* side, which is outermost on the finished piece (right side) and *reverse* side, which is opposite to the effect side ((wrong side) of the fabric, not the *technical* face or back.

Right Side = Effect Side

Wrong Side = Reverse Side

These methods are for textured knitting, such as slip or tuck, with one color being knit in a row, one selecting and one non-selecting stitch type.

- Choose Right Side Facing or Wrong Side Facing for Tuck or Slip stitch patterns and garter stitch patterns *which do not include a band or bands of Fair Isle (that is, two colors in row)*
- Use Right Side Facing or Wrong Side Facing for all-over Lace patterns and (Brother electronic and Silver Reed machines) Lace combined with stitch texture.

You specify which side will face you as you knit and, according to which knitting machine you are using, then DesignaKnit will know whether to flip the pattern for downloading and will set the background to knit or purl stitches accordingly. As most textures are produced using Tuck or Slip techniques, by default, the main stitch will be the *selecting* stitch and the other symbols will be non-selecting, but you can change these settings in the palette.

For tuck, slip, thread lace, weave or garter carriage patterns, If you have used the Smart Symbols which have been assigned to these specific techniques, then DesignaKnit will indicate the carriage settings and, where necessary, when to change them, as you work through the pattern in Interactive Knitting as well as including this information in the printed instructions

Color is used differently from Fair Isle or Jacquard patterns - the row itself will be knit in one color only. You can use additional colors to indicate contrast yarns for, say, weaving patterns, or you can use a color to clarify or highlight the position of a symbol, but they will not influence the selection of the needles. You will, however, have to set the

transparent/opaque status of the colors so that DesignaKnit knows which is the knitting yarn color and which is the 'memo' color.

For Brother Garter carriage patterns, you can use either Right or Wrong Side Facing, but you should take into account:

- **Wrong Side Facing (W):** the knit side will be the effect side of the fabric facing away from you as you knit, so any purl stitches will be formed on *selecting* needles. DesignaKnit will flip the pattern from left to right before downloading.
- **Right Side Facing (R):** the purl side will be the effect side of the fabric facing you as you knit, so any knit stitches will be formed on *selecting* needles. DesignaKnit will not flip the pattern before downloading.

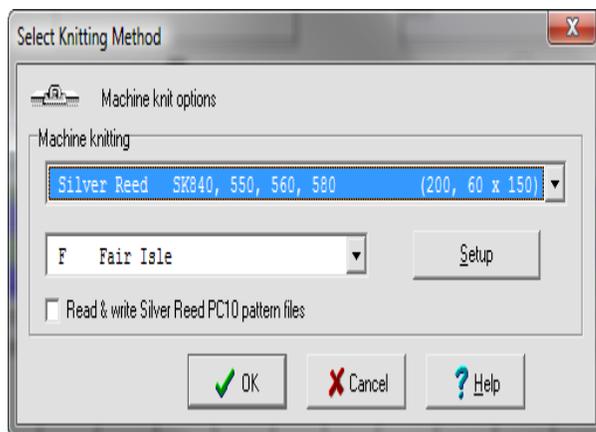
Reverse Fair Isle Patterns: these are patterns where the floats form the outer pattern and may be used to create pull-up or faux weave effects. If you want to create such a pattern, you must configure the Fair Isle method so that DesignaKnit will recognize that you are knitting two colors simultaneously, but in order to ensure that the pattern is the correct way round if it is not entirely symmetrical, you will need to use **Modify/Flip/Flip Horizontally** before saving, integrating and downloading.

Knitting Machine Setup

In order to design for or connect to a knitting machine or machines, it is important to configure the correct settings for those machines. This then allows DesignaKnit to generate appropriate error messages and advice and to find and activate the appropriate attached cable link(s) to interact with the machines.

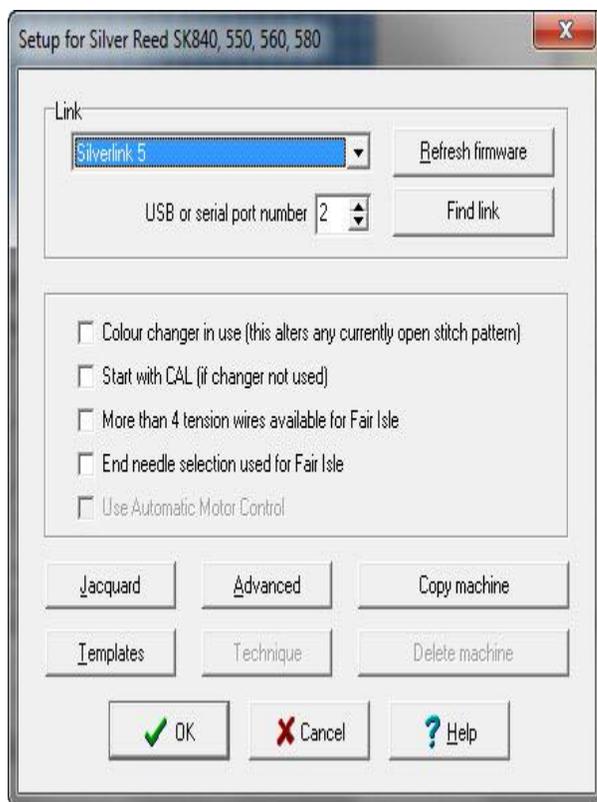
The machine setup is integral to the knitting method as it is the *method* which determines how the patterns should be prepared for knitting, so you will find the set up dialogue by selecting **Options/Method of Knitting**.

(If you have the Complete version of DesignaKnit and the current knitting method is Hand Knitting, click on the machine button  at the bottom left corner to see the machine options)



To change the knitting machine, click on the arrow at the right of the field to open the list and click on the machine you want to configure. Machines are listed alphabetically, so if you can't see the machine you want, use the scroll bar at the right to find the one you want.

Next, click on the **Setup** button. The options for the link will be relevant to the machine you have chosen and, where there is a choice, the specific link: click on the arrow to view the drop-down list of available links.



If you need to refresh the firmware for the SilverLink 4 or 5, click on the **Refresh firmware** button.

The first time you connect your machine via a link, you need to set up the USB or serial port number so that DesignaKnit can interact with the cable. Click on the **Find Link** button.

The middle selection is common to all machines and if any option is not appropriate for that machine it will be grayed out.

- Color changer in use¹
- Start with CAL (if changer not used)²
- More than 4 tension wires available for Fair Isle³

¹: automatically determines the side of the needle bed at which the first knitting row occurs - and for those machines which pre-select the needles, the side at which the carriage must start the first pre-selection row.

Click this option so that you can preview the yarn colors and feeders as they will be for the current pattern. The change will not take place until you have clicked OK in this dialogue and the parent Select Knitting Method dialogue. If you change your mind later, you do not have to reopen this dialogue, you can use the color changer button on the Tool Bar to switch it on or off.

Note that for machines and pattern devices with an independent memory, such as the Brother electronics, PPD and Silver Reed PE1 and PC10, the pattern will be downloaded as *if the color changer is off* - this is so that there is consistency in the way in which patterns are transferred. To knit the pattern with the color changer, you need to program the machine or device so that the selection is reversed and in Interactive Knitting, make sure that the color changer icon on the yarn screen is switched on so that the yarn changing instructions match the selection.

For Silver Reed electronic machines, the pattern is downloaded in real time, so if you change the status of the color changer, the needle selection will be adjusted straight away. For Silver Link 4 and 5 there may be a slight delay while the pattern is re-loaded.

²: Click this is you want to force the first row to be knit with the carriage starting at the left side of the needle bed, traveling across to the right. If this item is not checked, the starting position for the first row will be determined by the default settings for the selected knitting machine.

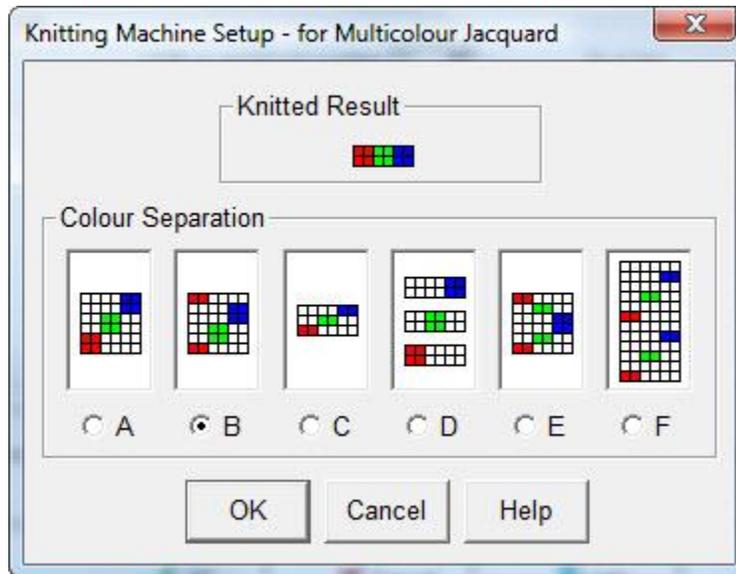
- End Needle Selection used for Fair Isle⁴

Jacquard

Select method of Jacquard separation

Jacquard methods require the colors in a row to be knit one at a time so that, depending on the number of colors in the row, several passes of the carriage are required to complete the row. In order to facilitate color changing, most Jacquard patterns are constructed in pairs of rows, unlike Fair Isle which is restricted to two colors per row which are worked simultaneously in a single pass of the carriage. If you change the method, you should check the pattern in Stitch Designer before knitting so that any errors can be addressed.

Below is a brief description of each method:



- **Method A** separates in pairs of rows therefore the pattern on rows 1 and 2 becomes 2 rows color 1, 2 rows color 2, 2 rows color 3 and so on. It will generally only work reliably where the stitch pattern consists of identical pairs of rows.
- **Method B** separates the main color from the first two rows, placing the first row at the beginning of the separation and the second row at the end (like the bread of a sandwich). All other colors are knit in pairs, like method A, between the outer main yarn rows. Where a pattern does not consist of identical row pairs, this method generally produces fewer separation errors than method A.

Both methods A and B are used on Japanese machines.

- **Method C** separates each color from a single row onto a separate row. For example, a four-color pattern would have the first row separated onto 4 rows, followed by the second row onto another 4 rows and so on. This method is used by Pfaff/Passap Duomatic knitters with the Deco set to 2, by Pfaff/Passap E6000 knitters where the pattern is over 40 stitches wide, or by knitters with Japanese machines when the double row (elongate) switch is used.

³: If you are using more than four yarns for a Fair Isle pattern, clicking this option will affect the number of columns used when the Yarn Feeders and Numbers are displayed as well as the number displayed in the color change instruction window of the Interactive Knitting window.

More than 4 Tension Wires may be used for Fair Isle knitting when the Color Changer is switched ON and there is an extra tension mast attached to the machine. The extra tension mast allows the main yarn to be threaded separately via the front feeder, freeing all four color changer holders for the contrast yarns. This option applies to Japanese machines only.

⁴: If your machine automatically selects end needles to upper working position, when this option is checked DesignaKnit will not instruct you to remove the contrast yarn from the front feeder if plain rows are knit between two patterned sections. You should, however, remember that if the yarn is not removed, you will create a float across the whole width of the pattern.

- **Method D** separates each color onto a separate reader card and is used for Silver Reed electronic machines which have the PE1 attachment and for the Pfaff/Passap E6000 machine.
- **Method E** works on pairs of rows separating each row into one pass for each color, but with the colors for the second row in reverse order. For example, in a 3 colors-per-row design there are six passes, with the colors of rows 1 and 2 separated as follows:

Pass 1 - row 1 - color 1

Pass 2 - row 1 - color 2

Pass 3 - row 1 - color 3

Pass 4 - row 2 - color 3

Pass 5 - row 2 - color 2

Pass 6 - row 2 - color 1

For 4 colors per row the 4th color would become the central pair of rows, sandwiched between two passes of color 3.

This method is suitable for the Brother CK35 which has a color changer at both ends of the needle bed.

- **Method Fis** a Half Milano separation method in which every single row is separated into 2 passes for each color. In this method the yarn is knit on the main bed on one of each pair of passes but knits in both directions on the ribber. The passes are arranged thus:

If the knitting machine is one which pre-selects the needles, the pre-select row or rows must first be worked and the carriage placed in position ready to knit the first pass of the pattern. The pre-select process will select needles on the main bed. If the machine does not pre-select, this paragraph does not apply.

The first pass of each color knits the selected needles on the main bed and all working needles on the ribber. Pre-select machines do not select needles on the main bed for the next pass.

The second (return) pass will knit all working needles on the ribber but will not knit at all on the main bed. Pre-select machines will select the needles for the first pass of the next color.

Templates

Configure the reader card / punch card / mylar sheet printouts

DesignaKnit 8 produces scaled template printouts for punch cards, mylar sheets and reader cards. To configure the number of rows to be printed, click the Templates button on the Knitting Machine Setup dialogue box.

- **Rows:** you can enter the number of rows to match your stitch pattern, especially if you wish to prevent the printing of several vertical repeats on punch card templates.
- **Stitch columns:** you can change the number of stitch columns you want to include if you're printing a template for a mylar sheet and will not be using the full width of the sheet or only want a single repeat, but changing the number of stitch columns for punch cards is inadvisable because a punch card needs the pattern to be repeated across the full width of the card.
- **Row Height/Column Width:** these figures are displayed for information only and may not be altered. The width of the stitch columns and height of the rows varies according to the machine for which the template is intended. The sizes are precisely configured so that the

templates are an exact fit so you can use them to trace over onto a mylar sheet or punch through to make a punch card.

Copy machine

Add a new machine or copy of existing one

You can use this feature to create a copy of your machine so that you can have it set up with different settings - for example, a different way of separating Jacquard patterns.

Once the copy has been created, select it and click on the Advanced button to make any changes to the configuration.

You can also use it if you design for a different type of machine which is not supported by DesignaKnit, such as a hand flat, V-bed or other industrial machine. You can change the name of the machine, enter the number of needles and the maximum number of colors which can be separated for Jacquard. By doing this, you can avoid many of the error messages which DesignaKnit would normally throw up if you, say, exceeded the number of needles for the configured domestic machine.

Delete machine

Delete Custom or Copy machine

This button is only available if the currently selected machine is one you have added via the Copy machine feature - you cannot delete any of the built-in machines!

Advanced

View additional information about the selected knitting

The information includes technical details about the knitting machine's memory, DesignaKnit's interface method, number of needles, maximum number of colors in a row for Jacquard knitting, pre-selection method, carriage passes calculation type and color changer type. For machines on the DesignaKnit default list, this panel is for reference only and cannot be changed by the user.

For machines which have been copied, you can edit the following settings: Name of Machine, Number of Stitches and Maximum Number of Colors per row for Jacquard.

Units of Measurement

If you need to change from centimeters to inches or vice versa, you can do that here. It is these units which are used in the Tensions dialogue.

Tensions

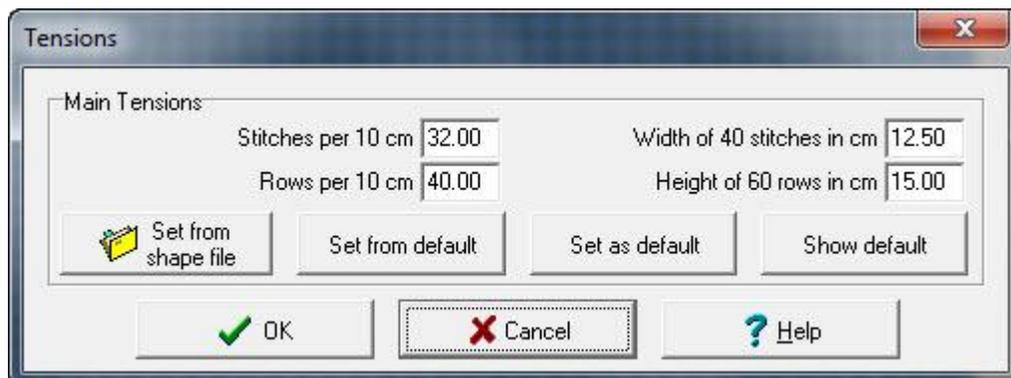
If you need to check or alter the tensions for a stitch pattern swatch, you can do this here.

WARNING!!

If you try to do this with an integrated shape, this will have an effect not only on the shape itself but on the stitch pattern and the way in which they are integrated. You would be better to return to Stitch Designer in order to make sure that the piece(s) are correctly positioned on the stitch pattern.

If any of the pieces in your shape has had Exact Stitch Layout applied, even if not for the piece you are currently set up to knit, you will be asked whether you want to retain this and adapt to the new tensions or to remove the ESL and revert to a version before this was applied. Either of these options will affect all the pieces in the file and you will not be able to control the exact outcome. You are, therefore, strongly advised to return to Original Pattern Drafting and edit the pattern there first and having done that, if necessary, re-integrate it with the stitch pattern in Stitch Designer before attempting to knit it. This way you can put right any problems which arise and make sure that the pattern is correct.

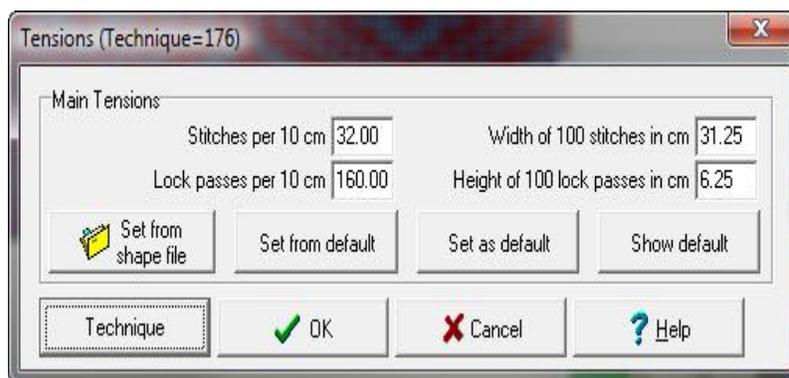
To set or change the tension for a stitch pattern
Enter the tension values directly



If you have a sample swatch, or if you are estimating the tension, you can choose to enter either the number of stitches or rows or the measurement of 20 stitches and 60 rows - whichever one you choose, DesignaKnit will automatically update the other set so that they agree.

Pfaff/Passap Tensions

If you have a Pfaff or Passap machine configured, the measurement requirements are consistent with the operation of these machines:



Enter the tension values directly

Pfaff and Passap machines' tensions are measured either horizontally in stitches and vertically in lock passes per 10 cm / 4 inches or the measurement of 100 stitches and 100 lock passes.

Set the Technique



Click on the Technique button to enter the technique number you will be using. The technique determines how many lock passes are required to achieve a pattern row. If you are in doubt, refer to your machine's manual.

E6000 Tension Swatches and Pattern Distortion

Compensating for pattern distortion according to technique

Passes of the locks are not usually the same as rows of stitch pattern (which are grid rows on the screen). The E6000 (and Duomatic) machines generally knit two

complete rows for every row drawn on the reader/punch card or downloaded via the computer. For example, a color pattern of ten rows designed on screen will usually be twenty rows when knit. There are of course exceptions to this rule when choosing a technique that does not double the rows: for example, techniques 129, 135, 172, 179, 252, 253, 254, and 255.

When knitting a swatch for calculating the tension gauge, there is a further complication: there may be additional lock passes required to knit each row or pair of rows, according to the technique. In order to avoid confusion and to ensure that your gauge is correct for both stitch pattern and garment shape designing, it is recommended that you adhere to one of the following methods of calculating and entering the stitch and row tension.

There is a chicken and egg situation here: until you have designed your stitch pattern, knit a test swatch, and measured the tensions, you do not know the exact tensions to enter into DesignaKnit. However, it is best to start with a grid on the screen which has approximately the correct dimensions for your stitch pattern and technique before you start designing, otherwise your color pattern could be elongated or compressed.

Estimating tensions

If you don't mind a little distortion, and you are using a common combination of yarn and technique, you can enter an approximate tension as in **method 1**, but for exact proportion grids follow **method 2**.

Method 1: for Bird's-eye Jacquard

- For 2 color Jacquard using technique 180 and 3 ply yarn, enter 28 stitches and 23 rows to 10 cm.
- For 3 color Jacquard using technique 195 and 2 ply yarn, enter 32 stitches and 23 rows to 10 cm.
- For 4 color Jacquard using technique 207 and 2 ply yarn, enter 32 stitches and 18 rows to 10 cm.

Method 2: for any technique and yarn

1. Choose a pattern, or roughly design one, which is similar in construction to the one you wish to design and which uses the same knitting technique - this is important! Knit a 40 stitch by 60 row TEST swatch which should start and end with 20 rows in waste knitting (the 60 rows are 60 lock passes, not 60 complete rows of pattern). E6000 knitters should program the console until TEST appears, and then ENT, to knit the swatch following instructions on the console. You should program a cast on method suitable for the knitting technique, for example cast on 6 is suitable for single bed knitting and cast on 2 for full needle rib (Jacquard) knitting.
2. Let the swatch rest, as is usual for a tension swatch, and then measure it with a centimeter rule. Make a note of the exact measurements (3.8 cm must NOT be rounded to 4 cm!).
3. In the Options menu of Stitch Designer, select Units of Measurement and set them to centimeters.
4. To calculate the number of stitches in 10 cm, divide 400 by the measurement of the 40 stitches:
 - Stitches per 10 cm = 400 / measurement

The number of rows must be adjusted according to the technique of knitting and so is a little more complicated:

To determine the number of passes per grid row if you are unsure, you can open any stitch pattern with the same method of knitting in Interactive Knitting. Select E6000 Technique from the Options menu, enter the technique number and a dialogue box will open listing the number of passes per row and the color sequence.

5. Multiply the measurement of the 60 pass swatch by the number of lock passes per grid row, and divide 600 by the result:
 - Pattern rows per 10 cm = $600 / (\text{measurement} \times \text{passes-per-row})$

The number of stitches and rows per 10 cm, obtained by the above calculations, are the numbers to be entered in the Tensions dialogue box of either Stitch Designer, Standard Garment Styling or Original Pattern Drafting.

By following this method you will be designing in the correct proportions and will not be disappointed with your knit garments.

Final Tension Swatch

Once you have designed your stitch pattern using the roughly correct tensions, it will be necessary to knit another swatch in this pattern to determine the exact tension to be used for calculating the garment pattern. At this stage it is recommended that you use at least 100 lock passes for the swatch to ensure that a more accurate measurement is taken. As before:

- Pat rows per 10 cm = $(10 \times \text{passes knit}) / (\text{measurement} \times \text{passes-per-row})$

Simple swatch measuring method

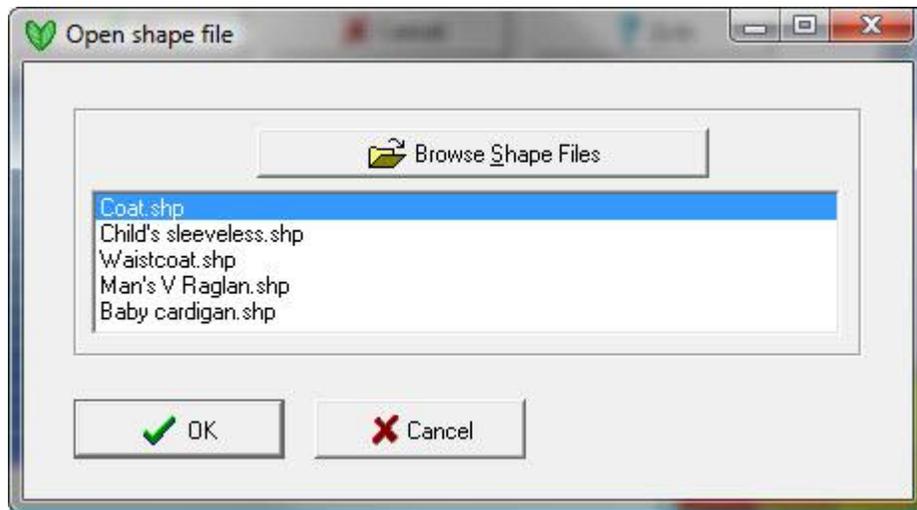
This is a very simple and accurate method of knitting and measuring a tension swatch but one which requires many lock passes for multicolored knitting:

- Cast on 80 stitches and halve the width measurement on completion of the swatch.
- Multiply 60 by the number of passes per row and knit the resulting number of lock passes. For example 4 passes per row would require 240 lock passes.
- Measure the length and that is the exact measurement of the 60 pattern rows as shown on the computer.

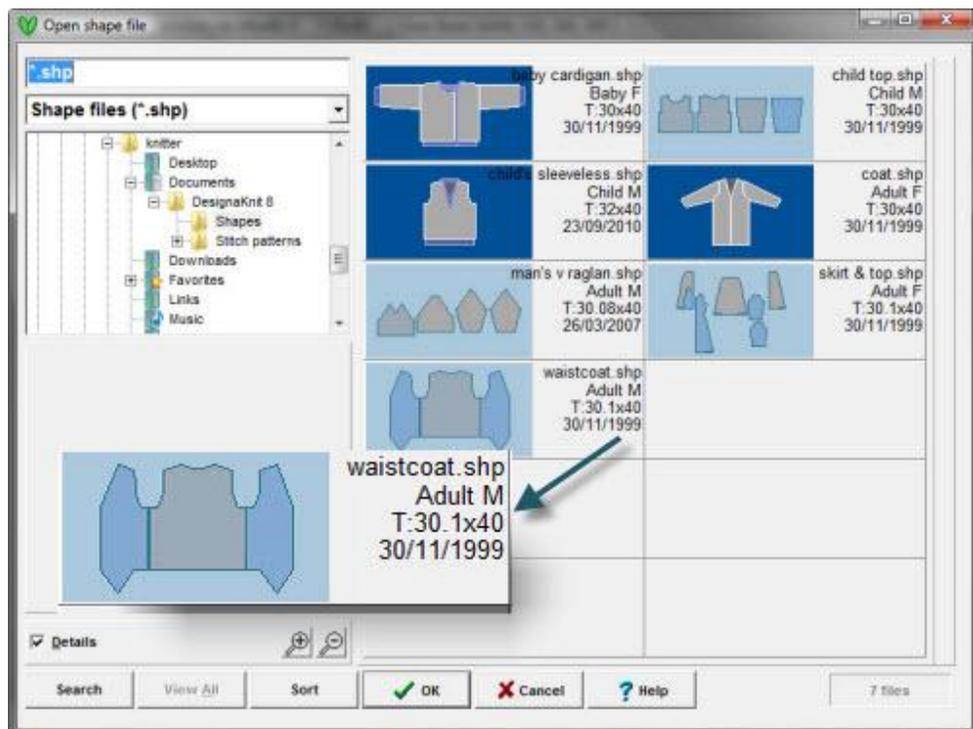
Recall the tensions from a previously saved shape file.

Note that this does not open the shape file, just applies the tension to the current stitch pattern

To do this, click on the button **Set from shape file**. The next dialogue offers you the last 5 shape files you have opened, whether in Stitch Designer, one or other of the pattern drafting sections or in Interactive Knitting. If you recognize the one you want, select it and click on OK, or double click on the file name. .



If the file you want is not listed - or if you need to be reminded what the tension settings were for any of your shape files, click on the Browse Shape Files button. This opens the Shape Thumbnails browser. Make sure that Details is ticked, and the file information will display the tension for each shape file in this format T: Stitches x Rows per 10 cm (or, if you're working in imperial measurements, per 4 inches)



Scroll through the shape files and click on the one you want - if you know the name, you can enter it into the File Name Field and the browser will jump to that location - just typing in the first letter will jump to the first patterns starting with that letter.

If you have a large number of files, you can use the Search and Sort options to find the one you want.

Set from default

Choose this option to apply the default tension setting. If you do not have a shape loaded in memory (if you're not sure, look at the title bar - if a shape is open, its file name and tensions are shown to the right of the stitch pattern name), then the default tension is the one that is applied to stitch patterns at the start of a session. If you can't remember what the default tensions are, click on **Show default**, and if you want to change them, edit the fields in the main dialogue and then click on **Set as default**

Set as default

If you want to change the tensions in the main dialogue to the default settings, you can do this by clicking on the **Set as default** button: the old values will now be replaced. You can reconfigure the default values as often as you like. If you can't remember what the default tensions are, click on **Show default**.

Show default

If you want to check exactly what the default values are, click on this button. You can't edit the defaults in this dialogue, so if you want to change the tensions, return to the main dialogue, edit the fields as required and then click on Set as default.

Visible Alerts

When knitting a shape, if you switch this option on, when you reach a row which requires some shaping to be done, the Countdown + Instructions window will be highlighted.

Alternatively, click on the  button.

Bell Alerts

When knitting a shape, if you switch this option on, when you reach a row which requires some shaping to be done, a bell will sound - as long as you have your Windows sound configured to play through the speakers or earphones. The actual technique you use will be the symbol you used on the chart or the instructions in the pattern text window.

Alternatively, click on the  button.

Verbal Instructions

When knitting a shape, if you switch this option on, when you reach a row which requires some shaping to be done, a voice will give you basic instructions for increasing, decreasing, holding or picking up. The actual technique you use will be the symbol you used on the chart or the instructions in the pattern text window.

If you haven't added shaping symbols, possibly because you didn't want to change the stitch pattern, you will have to decide how to do this without any specific instructions from DesignaKnit other than to increase or decrease however many stitches are shown on the Countdown window and on the Chart window.

Alternatively, click on the  button.

Symbol Alerts

If you have added alerts to memo symbols in the Stitch Symbols Organizer and/or to cables in the Cables Organizer in Stitch Designer, you can turn this option on to hear a sound when you reach a row with that symbol or cable.

If a row contains more than one symbol or cable with an associated sound, it is only the first one which will play - you won't have to listen to a whole sequence!

T I P

If, having put Symbol Alerts on, you don't hear any sounds, check first that you have allocated a sound in Symbols Organizer. If that's not the cause, check your Windows sound settings in Control Panel to see firstly that the speakers or earphones are configured, secondly that sounds are not muted and thirdly, in Control Panel, the Sound Scheme is *not* set to None: the sounds used as symbol alerts are related to the Windows sound scheme.

Alternatively, click on the  button.

Audible Warnings

Select this option to turn on audible warnings which are played through the computer's internal speaker. These are a different set of warnings from the bell and speech sounds: you can set up a series of sounds for different purposes, such as shaping or color changing instructions, so that when you reach that point in the pattern, DesignaKnit will warn you with that sound.

Alternatively, click on the  button.

Audible Warnings Setup

You can compose your own tunes for DesignaKnit to play when Audible Warnings are switched on! Select this option to open the setup dialogue, showing which events will be recognized and invoke a warning.

earphones are configured, secondly that sounds are not muted and thirdly, in Control Panel, the Sound Scheme is *not* set to None: the sounds used as symbol alerts are related to the Windows sound scheme.

Alternatively, click on the  button.

Window

Each window in the Interactive Hand Knitting work area can be resized by dragging the frame, which will also bring it to the front. If any window is partially obscured, bring it back to the front by clicking on it.

Tile Arrangement

To return the windows to their default size and position, choose one of the Tile Arrangement options.

Tiling is when they are arranged to fit within the main window space but, depending on what you are knitting (shape-only, integrated, swatch-only, type of stitch pattern), the various arrangements give prominence to different windows. There are up to five Tile Arrangements for the windows, but if there are fewer on the menu it is because some of the options are not appropriate for your pattern. When you've opened a pattern, try out the various options to see which suits you best.

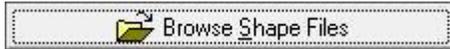
Floating Windows

This frees the windows from the confines of the work area, so you can drag them to any part of your screen and resize them at will. Fix them again either by re-selecting this option or by choosing a specific Tile Arrangement.

Interactive Machine Knitting Shapes Thumbnails Browser

The Thumbnails browser offers more options for searching through your shape files than the ordinary Windows file/open dialogue.

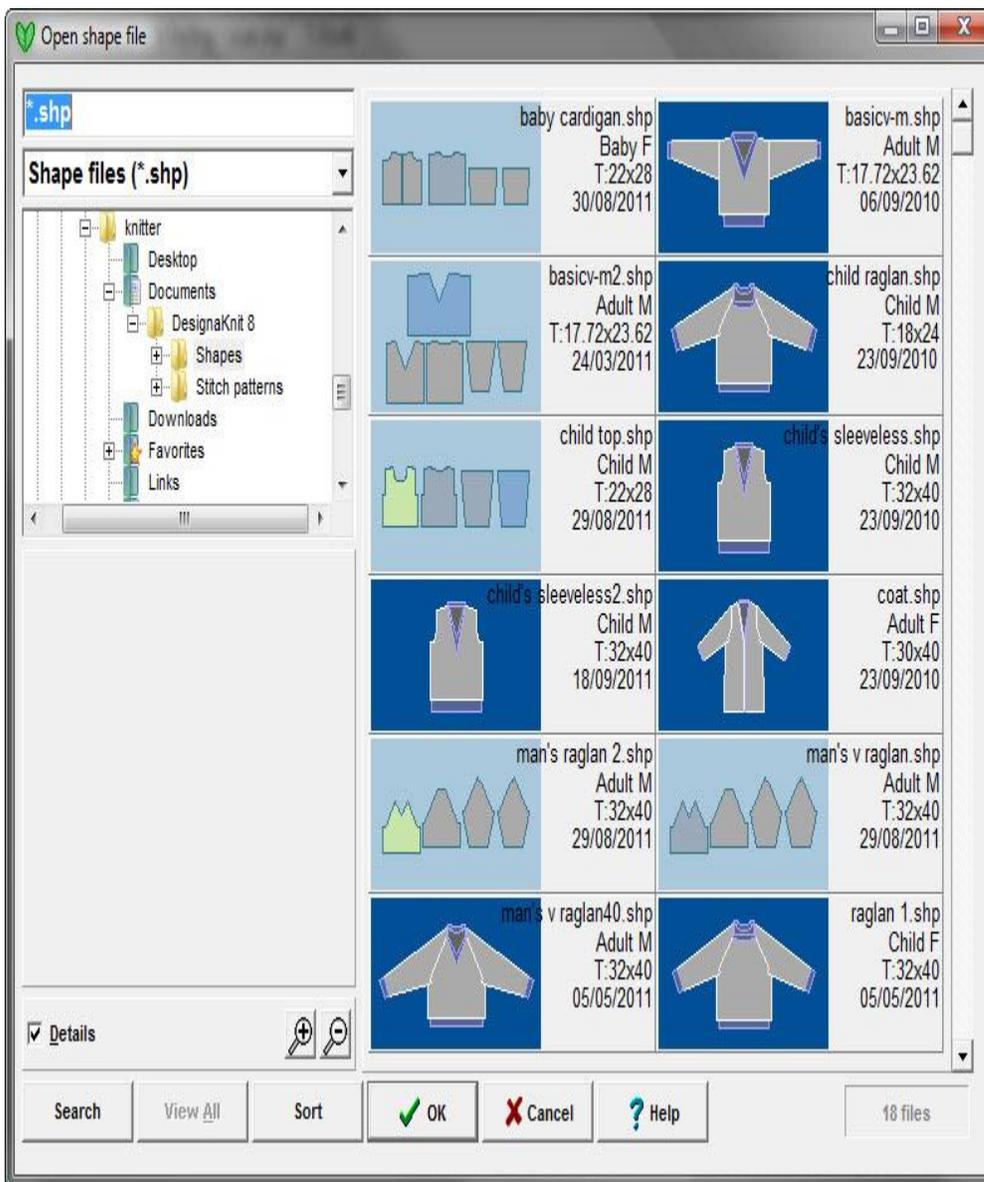
Open the browser in one of these ways:



When first entering Interactive Machine Knitting: In the opening dialogue, click on the Browse Shape files button



Within the Interactive Machine Knitting workspace: click on the Shape File Thumbnails button or from the menu bar select **Shape File/Thumbnails**



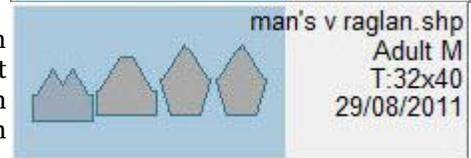
Scroll through the shape files and click on the one you want - if you know the name, you can enter it into the File Name Field and the browser will jump to that location - just typing in the first letter will jump to the first patterns starting with that letter.

The files are **color coded** to help you identify their origin and how they've been edited or changed.

Files shown on a dark blue background were created in Standard Garment Styling and have not been edited or adjusted in Original Pattern Drafting. These shapes are shown as made up garments.



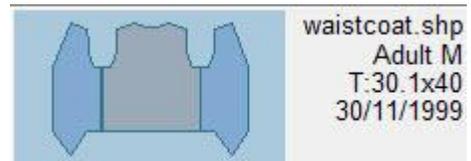
Files shown on a light blue background were either created in Original Pattern Drafting or a shape created in Standard Garment Styling has been edited in this section. These files are shown with pieces laid out as they were on the screen in Original Pattern drafting.



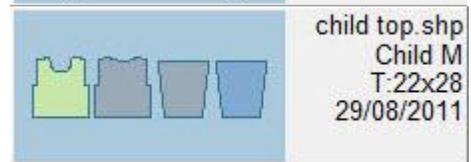
Standard pieces which have not been changed are shown in mushroom gray

Standard pieces which have been changed are shown in blue-gray

Original pieces created from scratch are shown in bright blue



Original pieces which have had Exact Stitch Layout applied are shown in green.



- To browse through your shape files, use the scroll bar on the left.
- Click the option to show or hide additional details
- Zoom in or out to see more or fewer patterns
- Search for a specific pattern, pattern type or range
- Sort the patterns into a different order

click on the one you want in the section on the right and then on the OK button

or click on the preview of the pattern on the left

or double-click on the pattern to open it straight away

Finding your way round the Shapes Thumbnails browser

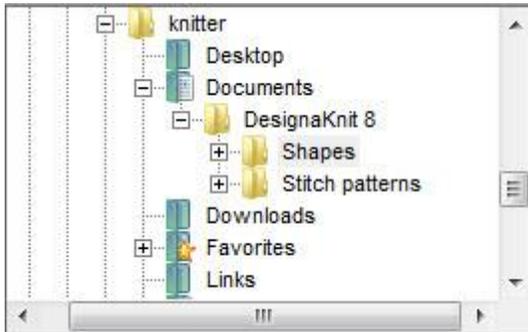
File Name Field

When you select a shape from the browser, the file name appears in this field.

(If you know the name of the pattern you want to open, you can start to enter it into this field and the browser will jump to that location - just typing in the first letter will jump to the first patterns starting with that letter.)

Folder Tree

Your shape files are stored in the DesignaKnit section of your Documents folder. If you have saved them elsewhere, on removable media such as a USB flash drive, for instance, you can navigate there using the folder tree. Use the scroll bar at the right of the tree to find other folders, and click once to open a folder.

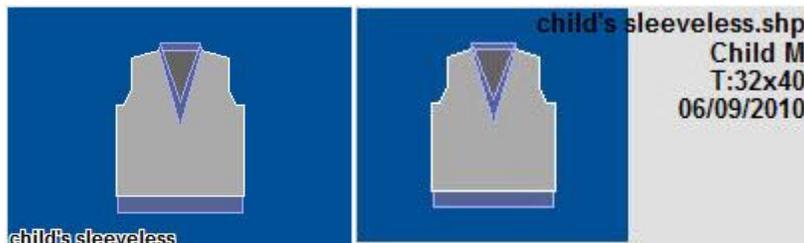


Details

Details

Tick this option to display detailed information about the pattern or palette files.

With this option unchecked, only the file name and extension are shown, but when this option is checked, the Standard Garment Styling type is shown for files started in that part of the program or the number of pieces for those created entirely in Original Pattern Drafting. The tension is shown in Stitches x Rows, and the date it was last saved.



Preview

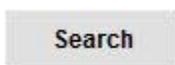
When you click on a file, it is shown in the preview area at the left of the browser.

Zoom



Click on the Zoom in button to enlarge the thumbnails and display fewer to a row, and on the Zoom out button to shrink them and see more per row. If the Details option is unchecked you can fit a larger number of images per row than when the information is displayed.

Search



Click on the Search button to search for a file or files according to a variety of criteria:

The screenshot shows the 'Search options' dialog box with the following settings:

- Standard styles - Age group:** Baby, Child, and Adult are checked.
- Standard styles - Gender:** Female and Male are checked.
- Standard styles - Garment type:** Sweater, Cardigan, Waistcoat, Sleeveless pullover, and Skirt are checked.
- Number of pattern pieces:** Minimum and Maximum are both set to 1. The checkboxes are unchecked.
- Embedded text:** The checkbox is unchecked. The text input field is empty.
- Date last saved:** Earliest date and Latest date are both set to 26/08/2011. The checkboxes are unchecked.
- Design method:** All pieces designed using only SGS, All pieces created or modified using OPD, and Some pieces designed by each method are checked.

- **Standard styles - Age group:** to filter your search according to an age group, check only those you wish to include.
- **Standard styles - Gender:** if you want to search for patterns for only males or only females, tick the category you want.
- **Standard styles - Garment Type:** tick the Standard Garment types you want to include in your search.
- **Design method:** specify which of the pattern drafting sections of the program were used in creating the file
- **Number of pattern pieces** - set a maximum and minimum number and tick the boxes on the left if you want DesignaKnit to take these factors into account when searching
- **Embedded text:** if you have added some notes to the pattern, you can search for a key word or phrase.
- **Date last saved:** limit the search according to the date or range of dates when the pattern or patterns were last saved.

Click on the arrow to the right of the date field to open a [calendar](#). Use the arrows to flick back and forth through the months and click on a day to set the date, or click on Today to reset the current date.



Apply Search: click the Apply button to run the search, without closing the dialogue, so you can redefine the criteria while the search is active.

Reset: click the Reset button to clear all the search fields on the right and re-check all age group, gender and garment type options.

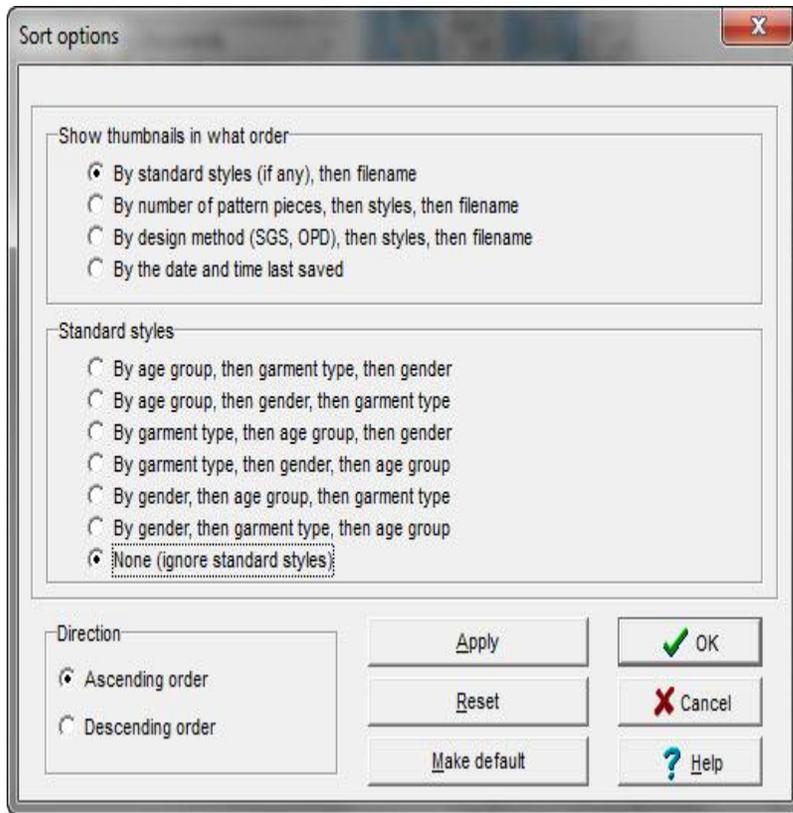
Make default: If you want to keep your search criteria for another session, click on the Make Default button. The next time you click on Search, the dialogue will open with your saved settings. To clear them, click on Reset.

Click **OK** to run the search and close the dialogue. The thumbnails browser will now display only those files found by your search until you click on the **View All** button. If this button is not active, this means that there are no filters and all the files in the folder are already included.

Sort



By default, the thumbnails are listed in alphabetical order, but you may want to group your patterns in a different way. Click on the Sort button to view the options:



If you want to retain the option you have chosen so that the Thumbnails dialogue always sorts the files in this way, click on the **Make default** button - and if you later change your mind and decide to revert to alphabetical sorting, click on **Reset**.

Interactive Machine Knitting Stitch Pattern Thumbnails Browser

The Thumbnails browser offers more options for searching through your stitch pattern files than the ordinary Windows file/open dialogue.

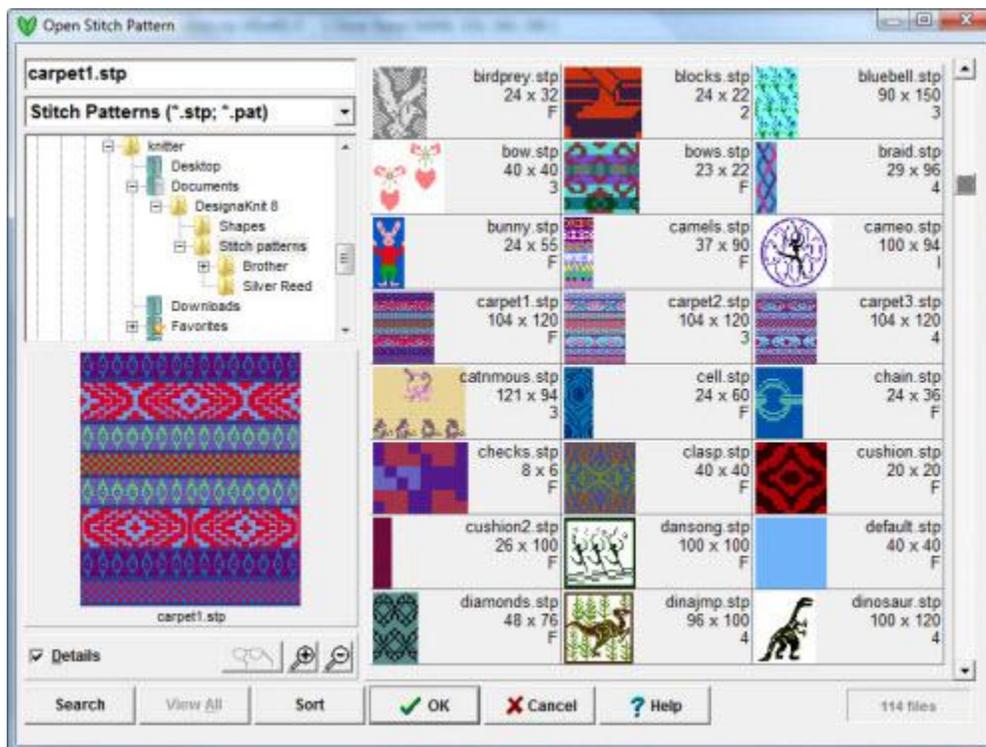
Open the browser in one of these ways:



When first entering Interactive Hand Knitting: In the opening dialogue, click on the Browse Stitch Patterns button



Within the Interactive Hand Knitting workspace: click on the Stitch Pattern Thumbnails button or from the menu bar select **Stitch Pattern File/Thumbnails**



Scroll through the pattern files and click on the one you want - if you know the name, you can enter it into the File Name Field and the browser will jump to that location - just typing in the first letter will jump to the first patterns starting with that letter.

- To browse through your stitch pattern files, use the scroll bar on the left.
- Click the option to show or hide additional details
- Zoom in or out to see more or fewer patterns
- Search for a specific pattern, pattern type or range
- Sort the patterns into a different order

click on the one you want in the section on the right and then on the OK button

or click on the preview of the pattern on the left

or double-click on the pattern to open it straight away

Viewing, Finding and Sorting Pattern Files

File Name Field



When you select a pattern from the browser, the file name appears in this field.



(If you know the name of the pattern you want to open, you can start to enter it into this field and the browser will jump to that location - just typing in the first letter will jump to the first patterns starting with that letter.)

File Type Drop Down List



By default, the Thumbnails Browser shows all stitch .stp and .pat patterns, but if you want to limit the display to all .stp files or all .pat files, click on the arrow at the right of the File Type field to open the drop down list and select the type you want.



Folder Tree

Your stitch pattern files are stored in the DesignaKnit section of your Documents folder. If you have saved them elsewhere, on removable media such as a USB flash drive, for instance, you can navigate there using the folder tree. Use the scroll bar at the right of the tree to find other folders, and click once to open a folder.

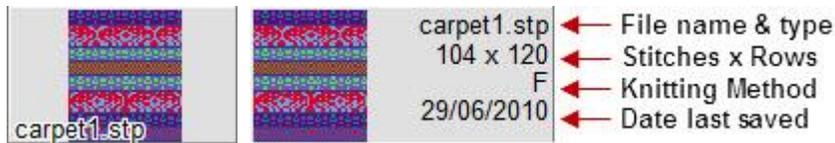


Details

Details

Tick this option to display detailed information about the pattern or palette files.

With this option unchecked, only the file name and extension are shown, but when this option is checked, the size in stitches and rows, the knitting method and the date the file was last saved are also shown.



Preview



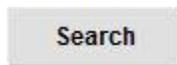
When you click on a file, it is shown in the preview area. If the spectacles button becomes active, it means that a high resolution preview of a large image is available - click on the button to show it. If the button is grayed out, do not be concerned as this means that the preview is already showing the highest possible resolution.

Zoom



Click on the Zoom in button to enlarge the thumbnails and display fewer to a row, and on the Zoom out button to shrink them and see more per row. If the Details option is unchecked you can fit a larger number of images per row than when the information is displayed.

Search



Click on the Search button to search for a file or files according to a variety of criteria:

- **Pattern size:** to search by the length of the pattern, you can check either or both of the minimum or maximum number of rows in the pattern repeat.
- **Embedded text:** if you have added information to the notes section, DesignaKnit will search for a word or text string if you tick this option and enter a search term or string in the 'Notes contain' field.
- **Date last saved:** limit the search according to the date or range of dates when the pattern or patterns were last saved.

Click on the arrow to the right of the date field to open a [calendar](#). Use the arrows to flick back and forth through the months and click on a day to set the date, or click on Today to reset the current date.



Apply Search: click the Apply button to run the search, without closing the dialogue, so you can redefine the criteria while the search is active.

Reset: click the Reset button to clear all the search fields on the right and re-check all knitting methods.

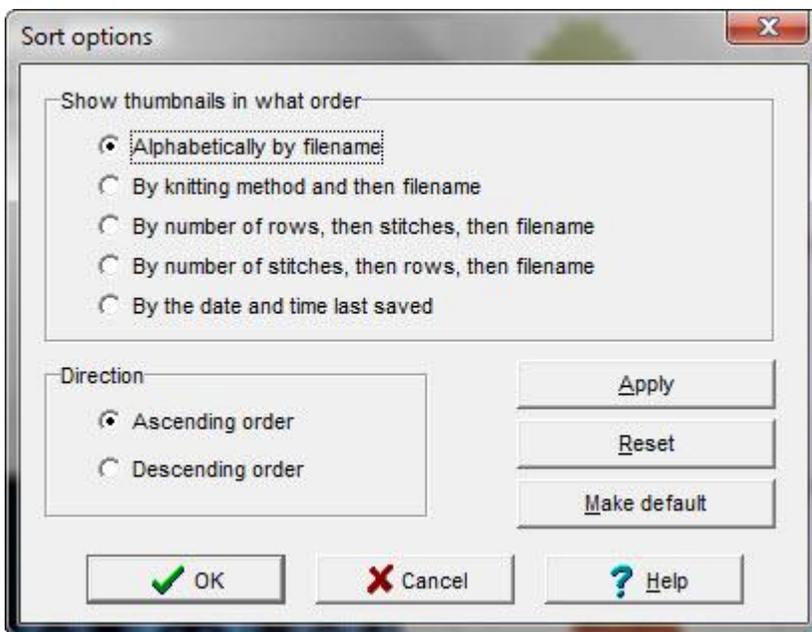
Make default: If you want to keep your search criteria for another session, click on the Make Default button. The next time you click on Search, the dialogue will open with your saved settings. To clear them, click on Reset.

Click **OK** to run the search and close the dialogue. The thumbnails browser will now display only those files found by your search until you click on the **View All** button. If this button is not active, this means that there are no filters and all the files in the folder are already included.

Sort



By default, the thumbnails are listed in alphabetical order, but you may want to group your patterns in a different way. Click on the Sort button to view the options:



If you want to retain the option you have chosen so that the Thumbnails dialogue always sorts the files in this way, click on the **Make default** button - and if you later change your mind and decide to revert to alphabetical sorting, click on **Reset**.

CableLinks For Interactive Knitting

For detailed instructions on how to set up your CableLink, click on [Help/CableLinks](#)

Use only a cable which has been designed for your make and model of knitting equipment. **Do not connect your DesignaKnit CableLink to a disk drive or anything other than a computer and the appropriate knitting machine.**

- Make sure that the label on the CableLink shows that it is the correct one for your machine.
- Connect or disconnect serial port CableLinks only when both the knitting machine and the computer are powered off.
- Make sure that the CableLink is plugged into the correct connector on the computer as an incorrect connection could cause damage.

Soft Byte Ltd and its agents can accept no responsibility for damage caused by incorrect connections or incorrect or inappropriate use of their CableLinks.

[Interactive Knitting with BrotherLinks for Brother/KnitKing machines](#)

[Interactive Knitting with SilverLinks for Silver Reed/Studio/Singer or Creative machines](#)

[Interactive Knitting with Pfaff/Passap Links](#)

[Interactive Knitting with Screen Link for Non-Electronic machines](#)

SilverLinks For Interactive Knitting

Silver Links 1 and 2 , and SilverLinks 4 and 5 are designed to work with Silver Reed modular knitting machines⁵

If you are using a stitch pattern, either on its own or integrated with a shape piece, you should make sure that it has been saved with the correct Method of Knitting so that the instructions will tally with the chosen technique. If you have not already done this, it is a good idea to load the pattern in Stitch Designer first to make any last minute checks - and if you make any alterations, you should save the pattern (if you don't want to lose the original, then save it with a different name).

While using the SilverLinks, any other patterning or card-reading device is redundant and therefore all the pattern variation switches are inoperative. If you wish to reverse direction, invert needle selection or use any other function normally controlled by the pattern switches, you must incorporate these in the stitch pattern itself before attempting to knit the pattern.

The links are connected via the curl cord to the knitting carriage so that during Interactive Knitting the needle selection is controlled by DesignaKnit, row by row as you knit.

- SilverLinks 1 and 2: the pattern you are knitting is downloaded in 'real time' - that is, each row is downloaded one at a time, as you knit. This means that if you exit Interactive Knitting, close down DesignaKnit or switch off the power to the computer, knitting machine or SilverLink 2, the downloading will stop and will not be retained in the link or in the machine.
- SilverLinks 4 and 5: the pattern is downloaded in its entirety to the SilverLink box, which forms part of the link. Then, while you are connected to Interactive Knitting, it is fed from there, a row at a time, to the knitting machine. The pattern will remain in the box unless and until one of the following events occurs:
 - o The next installment of a large pattern is downloaded
 - o A new pattern is downloaded
 - o *SilverLink 4 only*: the power is turned off. (The SilverLink 5 will retain the pattern, even when the power is off).

SilverLinks 1 and 2

These instructions apply to the following SilverLinks:

- SilverLink 1 Serial
- SilverLink 2 Serial
- SilverLink 2 USB

Knitting a swatch (stitch pattern only or Cut and Sew piece) with the SilverLink 1 or 2

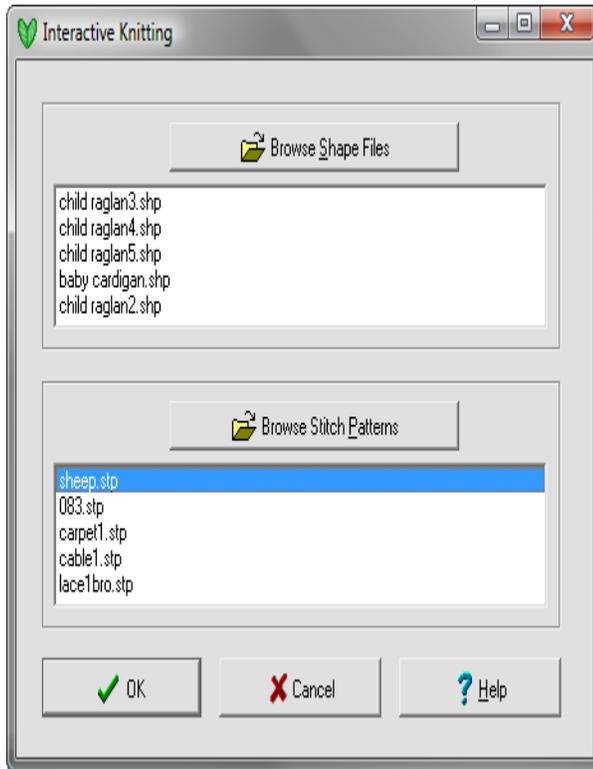
Whilst you can select the knitting machine you will be using from within Interactive Knitting, if you do this from Stitch Designer or one of the shaping sections, DesignaKnit will not prevent you from going forward if the pattern is incompatible with the currently selected machine.

1. 'Swatch' refers to a stitch pattern which is not integrated with a shape piece: it could be just a tension swatch, or it could be a larger piece for which you do not want to follow DesignaKnit's shaping instructions, or a Cut and Sew pattern.

⁵ (SK830, SK840, SK860 & SK890 without the need to be connected to the EC1 or PC10 card reader unit, and also with the Knitmaster 550, 560 and 580 machines) and can be used with the normal carriage as well as the electronic lace and AG50 intarsia carriages. The modular machines are known as Silver Reed in the UK and Studio or Singer in the US (not to be confused with the machine marketed in the UK as Singer and in the US as White/Superba.

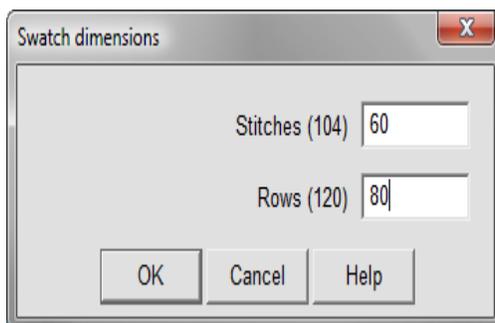
Cut and Sew pieces are stitch patterns which have had the outline of the shape embedded into the pattern and are knit as a single piece so that the shape can then be cut out and overlapped along the raw edges.

2. On entering Interactive Knitting, if the pattern you want is listed on the opening dialogue, you can select it and click OK; if not, then click on the Browse Stitch Patterns button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Stitch Pattern File menu and choose either Thumbnails or Open Stitch Pattern File for the normal Windows file opening dialogue.

3. The Swatch Dimensions dialogue then opens so that you can enter the size of the piece you are going to knit, whether this is a sample tension swatch or the entire pattern. The figures given in brackets show the size of a single pattern repeat of the saved pattern. You can decide whether to knit a partial pattern, a full repeat or a number of repeats, but remember that DesignaKnit will center the pattern on the needle bed.

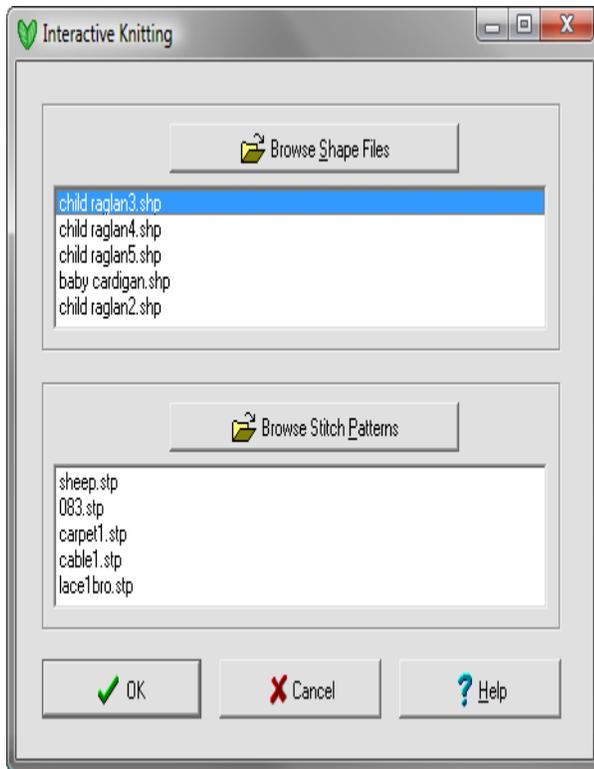


When you have set the number of stitches and rows, click OK.

4. Next, if you want to be warned about color or technique changes, you should select the type of alerts you want (if any) by pressing the appropriate buttons and, if you are using any of the audible options, make sure that your speakers are on.
5. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.
6.  Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window and in the in the Progress window.
7. Turn on the knitting machine or, if using the SilverLink 2, switch on its power unit.
8. Set the point cams to the positions indicated in the instructions.
9. Click the OK button on the Prepare to Synchronize Carriage dialogue.
10. On the knitting machine carriage, set the pattern lever to the required stitch type for the pattern you are knitting, make sure the green Go button is on....and knit the swatch, following any color change or carriage setting instructions shown in the Yarns or Countdown windows respectively.

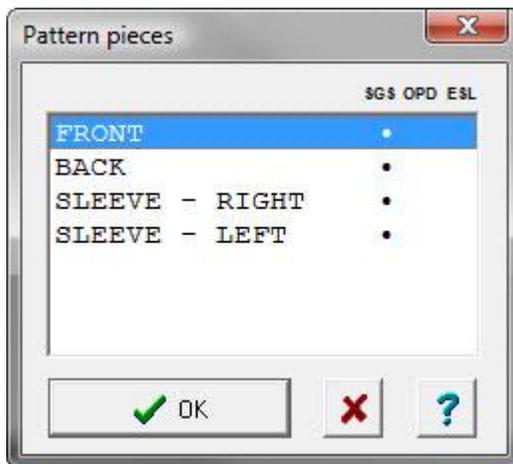
Knitting a Shape-Only Piece in Plain Knitting with the SilverLink 1 or 2

1. Knit a tension swatch.
2. Create a Standard or Original shape file and save with the tension settings derived from the tension swatch.
3. Switch to the Interactive Knitting section.
4. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not, then click on the Browse Shape Files button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

- Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



- If the piece has previously been integrated with a stitch pattern, you will then be offered the choice of knitting it with the stitch pattern or on its own: choose Shape-only, indicate in the dialogue whether the side facing you as you knit is to be the Right (Effects Face) or Wrong side, then click OK.
- Next, if you want to be warned when you need to carry out shaping instructions, you should select the type of alerts you want (if any) by clicking on the appropriate buttons on the tool bar and, if you are using any of the audible options, make sure that your speakers are on.

- Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.



- Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window and in the in the Progress window.
- Turn on the knitting machine or, if using the SilverLink 2, switch on its power unit.
- Set point cams to maximum positions indicated in the instructions.
- Click the OK button on the Prepare to Synchronize Carriage dialogue.
- On the knitting machine carriage, set the carriage for plain knitting, make sure the green Go button is on....and start knitting, following any shaping instructions shown in the Yarns or Countdown window.
- To knit the next piece choose Select Piece from the Shape File menu and repeat from step 5.

TIP

It is not possible to knit a shape only from DesignaKnit combined with a stitch pattern from mylar sheet or PE1 because the connection to the computer disables all the other function buttons while it is being used.

To knit a shape interactively while using a stitch pattern from Mylar sheet or PE1 you must also have a ScreenLink cable, where you will follow the Non Electronic Cable instructions.

Knitting an Integrated Shape/Stitch Pattern with the SilverLink 1 or 2

First you need to have integrated your shape file piece(s) with a stitch pattern, then download it to the knitting machine.

Whilst you can select the knitting machine you will be using from within Interactive Knitting, if you do this from Stitch Designer or one of the shaping sections, DesignaKnit will not prevent you from going forward if the pattern is incompatible with the currently selected machine.

Integrate using Original Pattern Drafting.

New to DesignaKnit 8 is the ability to integrate the stitch pattern with the shape in Original Pattern Drafting. This is faster than integrating in Stitch Designer, but does not allow you the ability to edit the stitch pattern within the shape - so if you want to check or make alterations to the stitch pattern itself, you must do this from Stitch Designer.

- Switch to Original Pattern Drafting. If the shape is not already open, open it using File/Thumbnails or File/Open or, if the file is one of the five most recently used file names on the File menu, just click on the name to open it.
- Click on the piece that you want to integrate so that it becomes the active piece. If the stitch pattern is not already visible, select View/Stitch Pattern or View/Different Stitch Pattern.
- In the middle of the active piece there is now a tag with 4 arrows. Click the left mouse button down on this tag and drag to move the stitch pattern across the garment piece. Release the mouse button when the registration is correct.
- Save the integration by selecting File / Save.

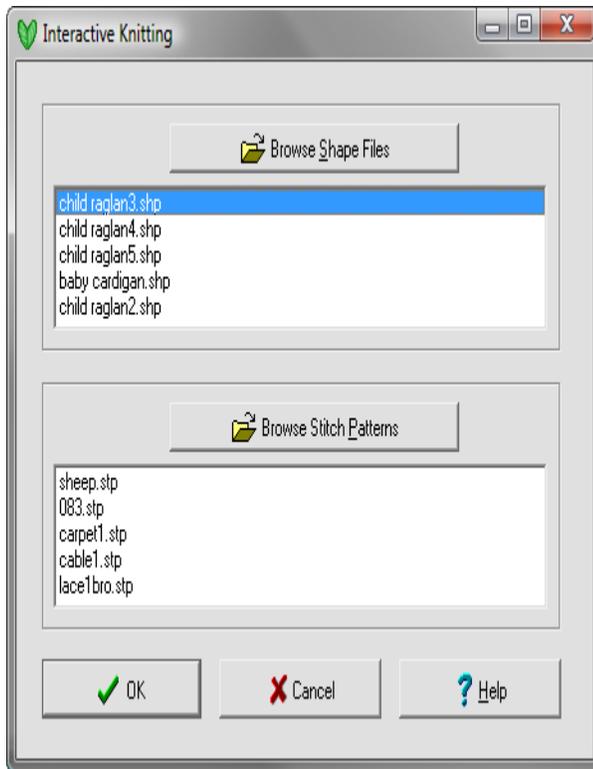
5. Go Stitch Designer to download the stitch pattern, then switch to Interactive Knitting.

Integrate using Stitch Designer

1. Switch to the Stitch Designer section. Open the Stitch pattern using File/Thumbnails or File/Open, or if the file is one of the five most recently used file names on the File menu, just click to open it.
2. Click on the View Piece button (or select Shapes/View Piece): if the shape file is not already open, you will be shown the Shapes Thumbnails browser first, then you can choose the piece to integrate.
3. Position the piece(s) on the stitch pattern using the Move Piece tool.
4. Select Shapes/Integrate and tick the check box next to the piece or pieces to be integrated with the current pattern and click OK.
5. Now save the integration information by selecting Shapes/Save Shape - or Save Shape As if you want to save this as a new shape file.
6. If integrating caused the pattern to display a greater or lesser number of repeats, when you leave Stitch Designer you will be asked if you want to save the stitch pattern with the current number of repeats. If you prefer to keep the original version, you can opt not to do this - the integration information will not be affected and if you view the pieces again on this stitch pattern, the number of repeats will be adjusted automatically to accommodate them. To save the stitch pattern before leaving the section, click on the Save button or choose File/Save - or Save As to save as a new pattern.

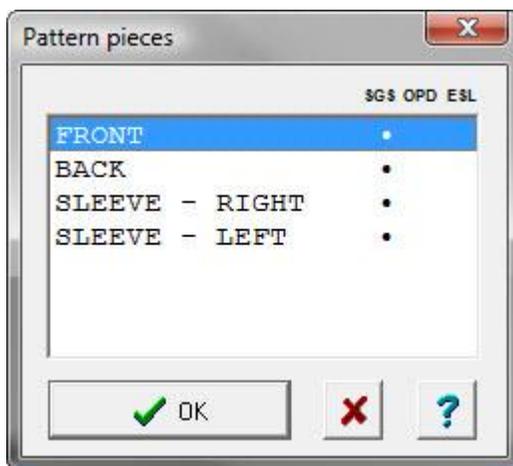
Knit the piece interactively

1. Switch to the Interactive Knitting section.
2. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not, then click on the Browse Shape Files button, which will open the Thumbnails browser.

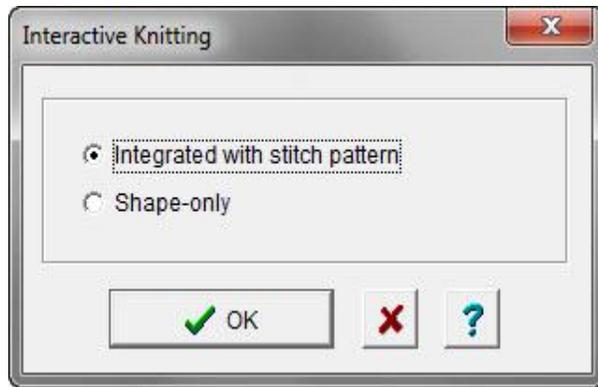


If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

3. Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



4. In the next dialogue, confirm that you want to knit the piece integrated with a stitch pattern:



5. Next, if you want to be warned when you need to carry out shaping instructions, change yarns or carriage settings, you should select the type of alerts you want (if any) by clicking on the appropriate buttons on the tool bar and, if you are using any of the audible options, make sure that your speakers are on.
6. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.
7.  Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window and in the in the Progress window.
8. Turn on the knitting machine or, if using the SilverLink 2, switch on its power unit.
9. Set point cams to maximum positions indicated in the instructions.
10. Click the OK button on the Prepare to Synchronize Carriage dialogue.
11. On the knitting machine carriage, set the carriage for plain knitting, make sure the green Go button is on....and start knitting, following any shaping instructions shown in the Yarns or Countdown window.
12. To knit the next piece, choose Select Piece from the Shape File menu and repeat from step 3

Knitting Neckline Shaping with the SilverLink 1 or 2

Necklines may be shaped by holding or by decreasing. Whichever method you choose, DesignaKnit will advise when to divide for the neckline. The instructions will tell you to work the center shaping and put the remaining needles on one side into hold. In the case of a round neck, look at the needle bed display to see which center stitches should be either cast off or held with the needles for the second side. Reposition the point cam at the opposite end to the carriage and remember when decreasing, *only to move it at the opposite end to the carriage* otherwise the pattern will shift sideways.

1. On completion of the first side, the green Go button is automatically deactivated.
2. Cast off the last stitches or remove all held shoulder stitches with waste knitting.
3. Click the amber Ready button to return the on screen instructions to the start of the neck shaping and place the carriage on the side instructed in the Prepare to Synchronize Carriage dialogue.
4. Return the stitches into the needle hooks, placing the needles in normal working position and click the OK button,

5. Return the point cams to the maximum width of the piece as instructed, using free passes to ensure that you only move the cams at the opposite end to the carriage.
6. Click the OK button on the Prepare to Synchronize Carriage dialogue and insert the yarns into the appropriate feeders to continue knitting the second side.
7. Move the Point cams in at the opposite end to the carriage after the second side knitting has commenced.

Point Cams and Edge Shaping

The point cams must be outside the needles in working position, and the carriage must pass the cam when you finish a row to ensure that the pattern is downloaded properly. This means that if you are knitting a piece which is increased at the edges, such as a sleeve, you will have to move them outwards in order to keep the pattern correct, but it may be to your advantage when decreasing at the edge to move them inwards to keep the movement of the carriage to the minimum.

R U L E

- You may only move the cam which is at the opposite end of the needle bed to the carriage
- You must never move the cam at the same side as the carriage - or the pattern will shift sideways.

When starting to knit a sleeve, or any shape with increasing edge seams, DesignaKnit will instruct you to position the point cams at the maximum width of the piece to commence the knitting, even though the stitches cast on are considerably fewer than the maximum. Position them as instructed, knit the first row being sure to pass the point cams fully. Then move the cam at the end opposite to the carriage into the width of the actual needles in work. Knit the second row and move the opposite point cam.

As the more needles are brought into working position, so the point cams must be moved out accordingly. Move them only at the end opposite to the carriage to avoid mispatterning. For example, on a sleeve seam where a stitch is increased at each edge on a given row: work the increases, move the point cam opposite the carriage outwards, knit one row and then move the second point cam outwards. Continue to the next increase.

Decreases should observe the same "opposite end move" rule. The point cams don't have to match the width exactly, and it is okay to have them a few needles wider than the current row. That way you don't have to move the point cams every time there is a decrease.

Recommence knitting after a break

When the green Go button is on, this will prevent the screen saver from starting. If you leave your knitting for a while and you want the screen saver to activate, click on the red Stop button. When you want to continue, click on the Go button. You will then be able to continue from where you left off.

Recommence knitting after unraveling rows

If you need to unravel any of the knitting, the first thing to do is turn off the Go button by clicking on the red Stop button straight away or click on the swatch or piece at the row to which you wish to return, or press the down arrow key once for each row unraveled: any of these actions will cancel the Go button.

When the knitting is unraveled as far as required, return the Interactive Knitting screen to the correct pattern row - either by clicking the down arrow key for each unraveled row or use the Go menu Go to RC option, then click the amber Ready button on DesignaKnit's tool bar. Return all needles to normal working position, set the point cams at their maximum settings, as instructed. If

you need to make a free pass to put the carriage at the correct side, don't forget to set it to Slip while you do this, then reset the pattern lever to the correct technique, click the OK button and continue knitting.

NOTE:

Those who have, in addition to the SilverLink 1 or 2, a non-electronic or other magnetic switch cable, please note that it is essential that the Go button is deselected before changing cables.

SilverLink 4 and 5

These instructions apply to the following SilverLinks:

- SilverLink 4 Serial
- SilverLink 4 USB
- SilverLink 5 USB

Downloading to the SilverLink 4

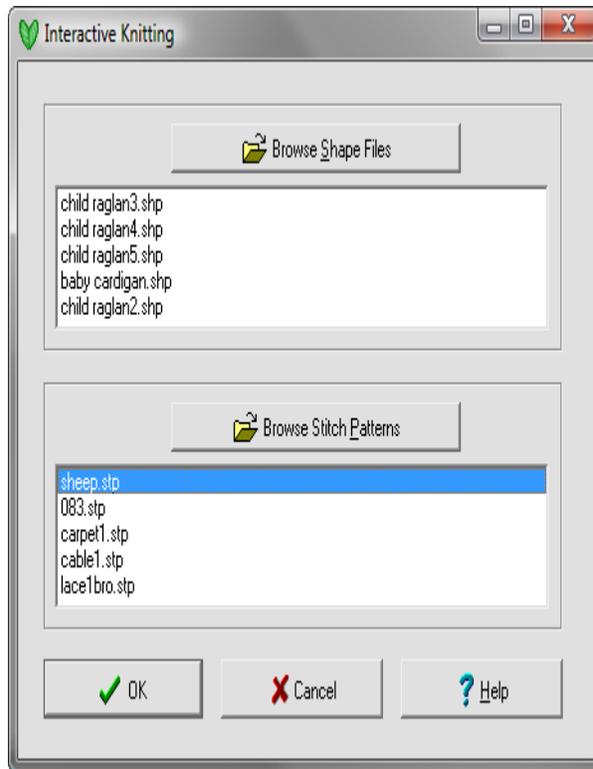
1. Switch to Interactive Knitting and load the stitch pattern or shape piece you want to knit:

To knit a Swatch (stitch pattern only) or Cut and Sew piece

1. 'Swatch' refers to a stitch pattern which is not integrated with a shape piece: it could be just a tension swatch, or it could be a larger piece for which you do not want to follow DesignaKnit's shaping instructions, or a Cut and Sew pattern.

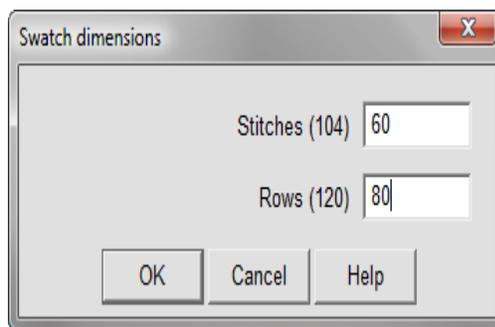
Cut and Sew pieces are stitch patterns which have had the outline of the shape embedded into the pattern and are knit as a single piece so that the shape can then be cut out and overlocked along the raw edges.

2. On entering Interactive Knitting, if the pattern you want is listed on the opening dialogue, you can select it and click OK; if not, then click on the Browse Stitch Patterns button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Stitch Pattern File menu and choose either Thumbnails or Open Stitch Pattern File for the normal Windows file opening dialogue.

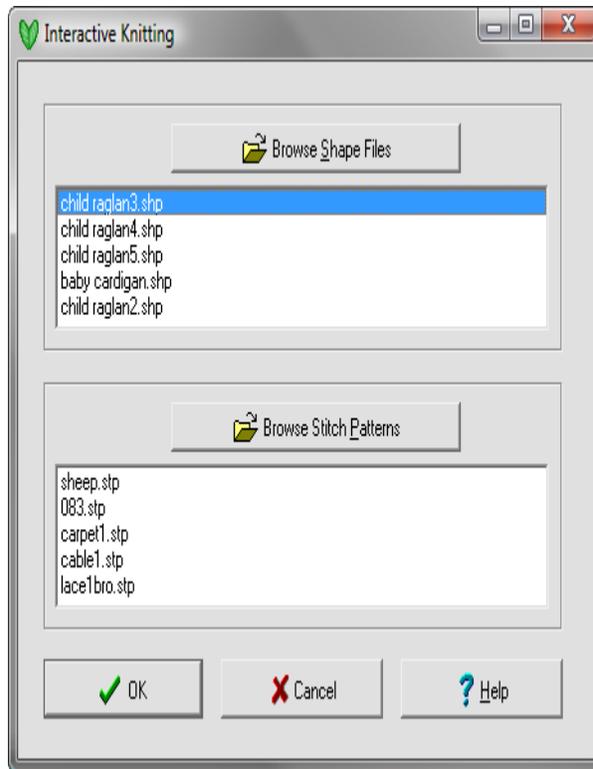
3. The Swatch Dimensions dialogue then opens so that you can enter the size of the piece you are going to knit, whether this is a sample tension swatch or the entire pattern. The figures given in brackets show the size of a single pattern repeat of the saved pattern. You can decide whether to knit a partial pattern, a full repeat or a number of repeats, but remember that DesignaKnit will center the pattern on the needle bed.



When you have set the number of stitches and rows, click OK.

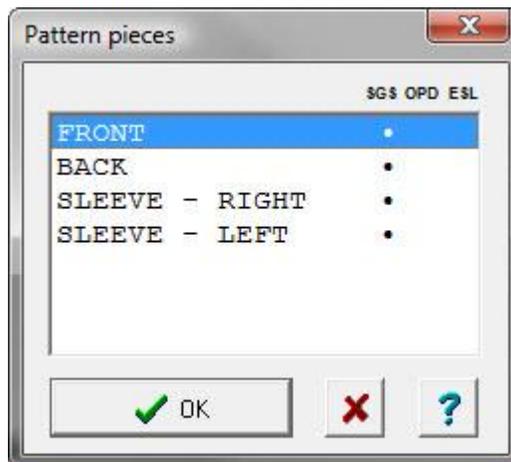
To knit a Shape-Only Piece in Plain Knitting

1. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not, then click on the Browse Shape Files button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

2. Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



3. If the piece has previously been integrated with a stitch pattern, you will then be offered the choice of knitting it with the stitch pattern or on its own: choose Shape-only, indicate in the dialogue whether the side facing you as you knit is to be the Right (Effects Face) or Wrong side, then click OK.

To knit an Integrated Shape/Stitch Pattern

First you need to have integrated your shape file piece(s) with a stitch pattern, then download it to the knitting machine.

Whilst you can select the knitting machine you will be using from within Interactive Knitting, if you do this from Stitch Designer or one of the shaping sections, DesignaKnit will not prevent you from going forward if the pattern is incompatible with the currently selected machine.

Integrate using Original Pattern Drafting.

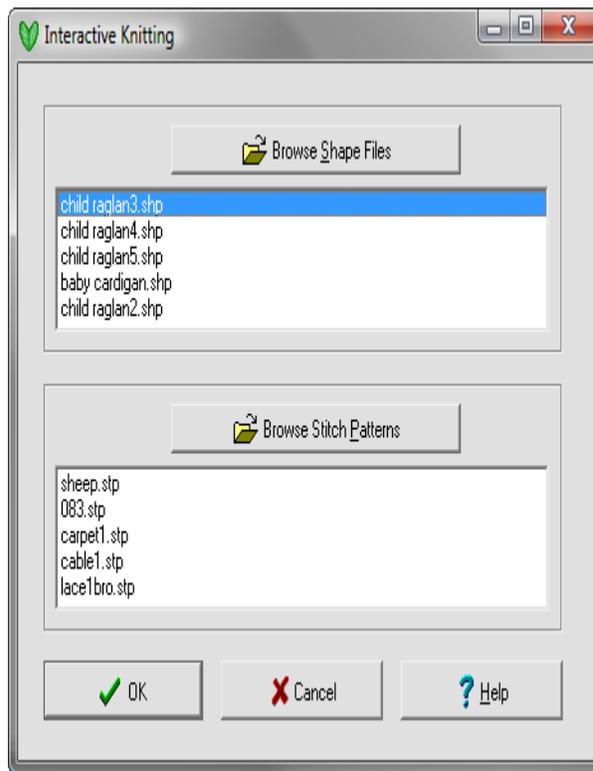
New to DesignaKnit 8 is the ability to integrate the stitch pattern with the shape in Original Pattern Drafting. This is faster than integrating in Stitch Designer, but does not allow you the ability to edit the stitch pattern within the shape - so if you want to check or make alterations to the stitch pattern itself, you must do this from Stitch Designer.

- i. Switch to Original Pattern Drafting. If the shape is not already open, open it using File/Thumbnails or File/Open or, if the file is one of the five most recently used file names on the File menu, just click on the name to open it.
- ii. Click on the piece that you want to integrate so that it becomes the active piece. If the stitch pattern is not already visible, select View/Stitch Pattern or View/Different Stitch Pattern.
- iii. In the middle of the active piece there is now a tag with 4 arrows. Click the left mouse button down on this tag and drag to move the stitch pattern across the garment piece. Release the mouse button when the registration is correct.
- iv. Save the integration by selecting File / Save.
- v. Go Stitch Designer to download the stitch pattern, then switch to Interactive Knitting.

Integrate using Stitch Designer

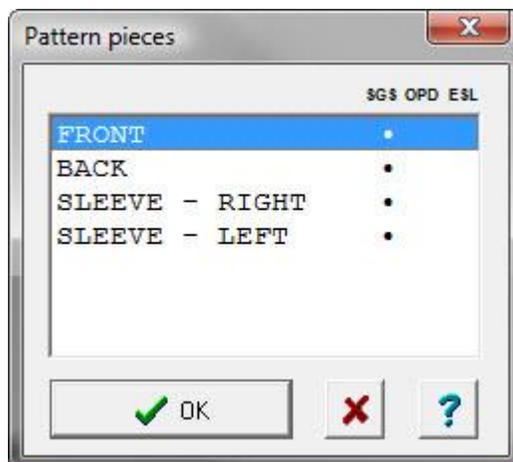
- i. Switch to the Stitch Designer section. Open the Stitch pattern using File/Thumbnails or File/Open, or if the file is one of the five most recently used file names on the File menu, just click to open it.
 - ii. Click on the View Piece button (or select Shapes/View Piece): if the shape file is not already open, you will be shown the Shapes Thumbnails browser first, then you can choose the piece to integrate.
 - iii. Position the piece(s) on the stitch pattern using the Move Piece tool.
 - iv. Select Shapes/Integrate and tick the check box next to the piece or pieces to be integrated with the current pattern and click OK.
 - v. Now save the integration information by selecting Shapes/Save Shape - or Save Shape As if you want to save this as a new shape file.
 - vi. If integrating caused the pattern to display a greater or lesser number of repeats, when you leave Stitch Designer you will be asked if you want to save the stitch pattern with the current number of repeats. If you prefer to keep the original version, you can opt not to do this - the integration information will not be affected and if you view the pieces again on this stitch pattern, the number of repeats will be adjusted automatically to accommodate them. To save the stitch pattern before leaving the section, click on the Save button or choose File/Save - or Save As to save as a new pattern.
1. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not,

then click on the Browse Shape Files button, which will open the Thumbnails browser.

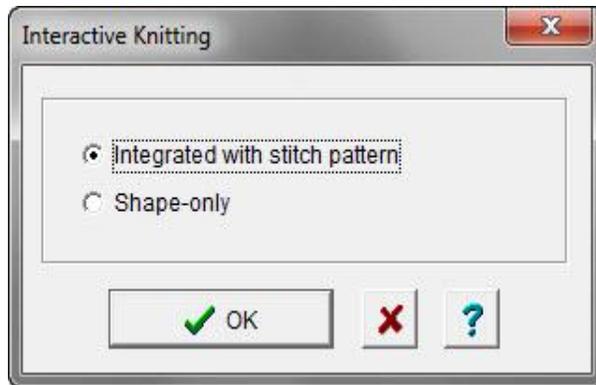


If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

2. Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



3. In the next dialogue, confirm that you want to knit the piece integrated with a stitch pattern:



2. Next, if you want to be warned when you need to carry out shaping instructions, change yarns or carriage settings, you should select the type of alerts you want (if any) by clicking on the appropriate buttons on the tool bar and, if you are using any of the audible options, make sure that your speakers are on.
3. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.

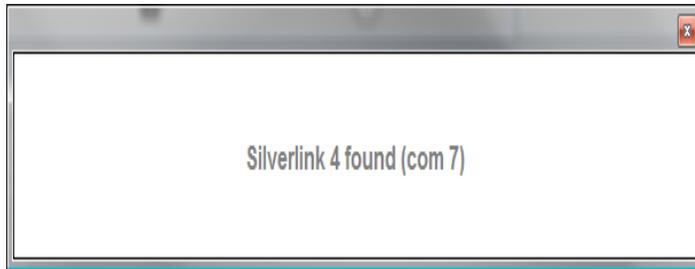


4. Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window and in the in the Progress window.

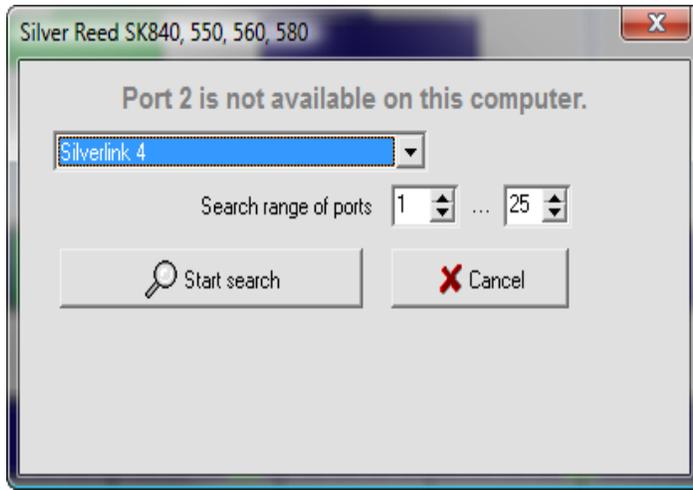


5. Make sure that your SilverLink is connected to the power supply and the curl cord, and that the curl cord is connected to the carriage.
6. Click the OK button on the Prepare to Synchronize Carriage dialogue.
7. DesignaKnit will now search for the SilverLink.

If you have used the SilverLink before you will see this message confirming the configuration before moving on to the next stage:



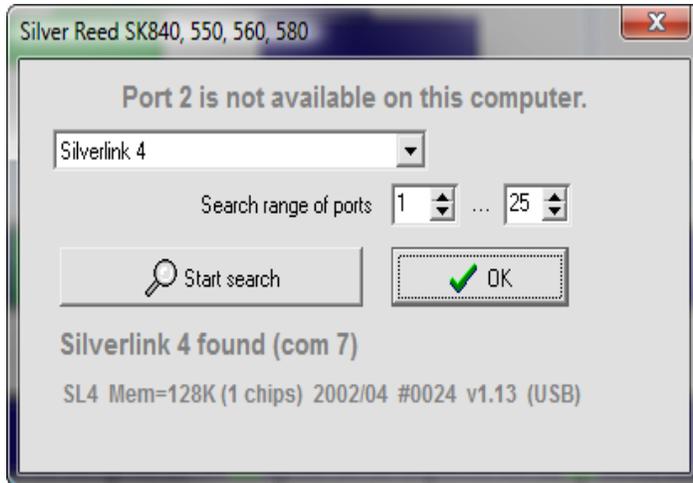
If this is the first time you have used the link, or if your last configured machine was a different type, you will see this dialogue:



If SilverLink 4 is not the displayed option, open the drop-down list and select it.

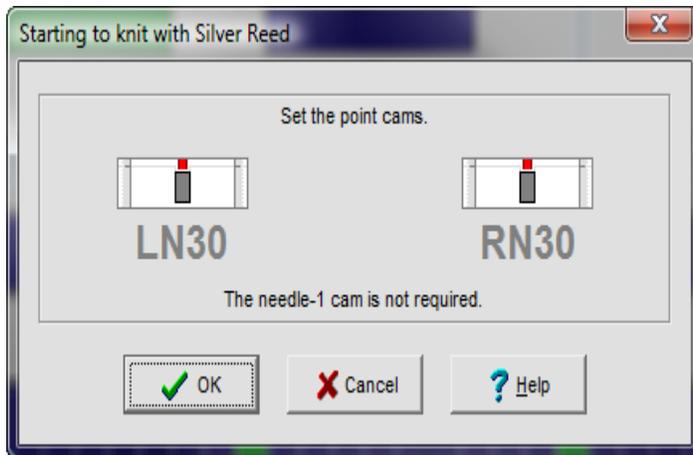
Click on the Start search button and wait while DesignaKnit finds and reconfigures your SilverLink.

NB: The reference to Port 2 is because that is the default setting when you first install DesignaKnit. Once the SilverLink has been found, DesignaKnit will automatically reconfigure the settings to match the new port settings. If you see the message saying that the new port is not available, check to see if your link is connected to the mains and to the computer. If the message persists after DesignaKnit reports that the SilverLink has been found, you can safely ignore it.



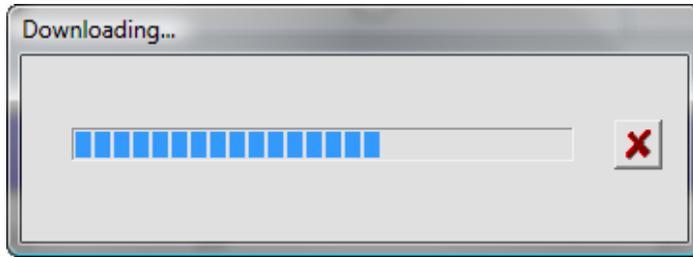
Click on OK to proceed.

8. The next message will tell you where to place the point cams on the needle bed - the position is determined either by width of the swatch you entered or shape piece: see notes below regarding moving the cams for edge increases and decreases on pieces such as sleeves. Note that the Needle-1 cam is not required.



Click on OK to confirm that this is done and you will see a message to the effect that the pattern is downloading; how long this will take will depend on the size and complexity of the pattern.

- **Stitch Pattern Only:** the carriage passes for a single repeat of the pattern will be downloaded, so for a small pattern repeat this may only take a few seconds. When you knit, however, the pattern will repeat horizontally and vertically over the number of stitches and rows configured at the start and within the point cams.
- **Integrated shape:** the download will consist of the number of carriage passes required to work the whole garment piece, regardless of the size of the single pattern repeat, so downloading could take considerably longer. In the case of a Jacquard pattern, for instance, or lace, this could entail a greater number of carriage passes than the maximum that can be downloaded into the memory, so the pattern will have to be downloaded in installments, as described below.
- **Shape-only:** data representing a blank pattern will be downloaded in order to prevent needles from selecting.



Please wait until the download progress bar indicates a completed download before beginning to knit.

If you want to cancel the download, click on the Cancel button.

9. When the download is complete, the dialogue will close and the Go button is automatically activated: you can now start knitting.

SilverLink 4 LEDs

The power indicator will remain green as long as the SilverLink 4 is powered on but, while the Go button is on, the second LED will go off if the carriage is outside the point cams. During knitting, this LED indicator will change its status according to whether a needle is being selected to upper working position or left in normal working position. Its purpose is purely diagnostic and in normal circumstances it is not necessary to take note of its condition.

Downloading to the SilverLink 5

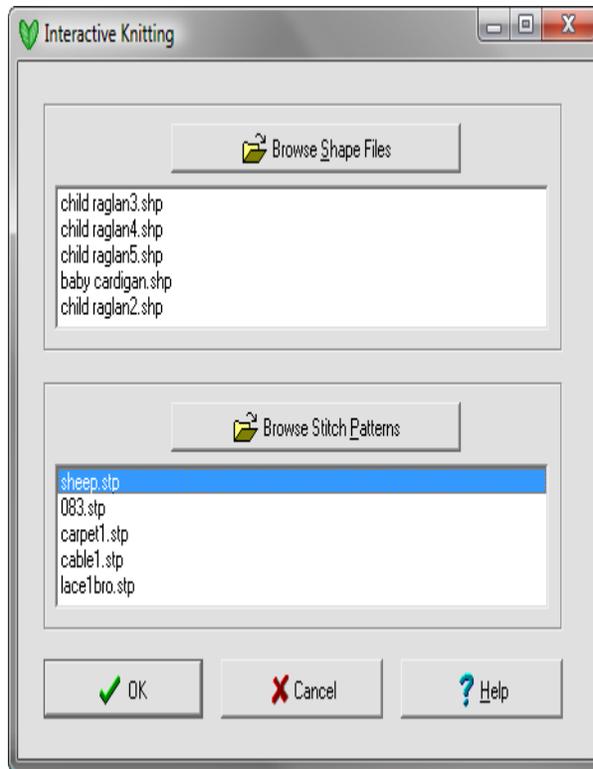
1. Switch to Interactive Knitting and load the stitch pattern or shape piece you want to knit:

To knit a Swatch (stitch pattern only) or Cut and Sew piece

1. 'Swatch' refers to a stitch pattern which is not integrated with a shape piece: it could be just a tension swatch, or it could be a larger piece for which you do not want to follow DesignaKnit's shaping instructions, or a Cut and Sew pattern.

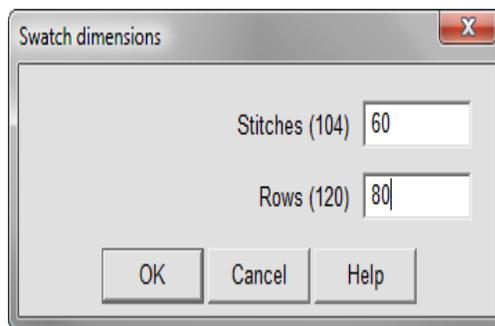
Cut and Sew pieces are stitch patterns which have had the outline of the shape embedded into the pattern and are knit as a single piece so that the shape can then be cut out and overlocked along the raw edges.

2. On entering Interactive Knitting, if the pattern you want is listed on the opening dialogue, you can select it and click OK; if not, then click on the Browse Stitch Patterns button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Stitch Pattern File menu and choose either Thumbnails or Open Stitch Pattern File for the normal Windows file opening dialogue.

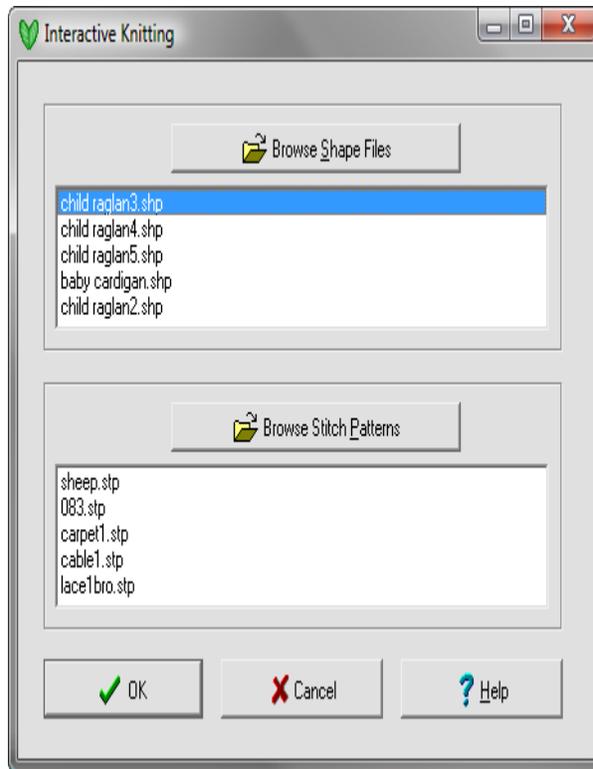
3. The Swatch Dimensions dialogue then open so that you can enter the size of the piece you are going to knit, whether this is a sample tension swatch or the entire pattern. The figures given in brackets show the size of a single pattern repeat of the saved pattern. You can decide whether to knit a partial pattern, a full repeat or a number of repeats, but remember that DesignaKnit will center the pattern on the needle bed.



When you have set the number of stitches and rows, click OK.

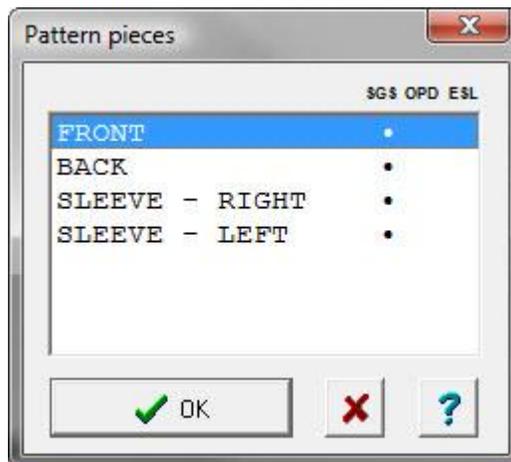
To knit a Shape-Only Piece in Plain Knitting

1. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not, then click on the Browse Shape Files button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

2. Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



3. If the piece has previously been integrated with a stitch pattern, you will then be offered the choice of knitting it with the stitch pattern or on its own: choose Shape-only, indicate in the dialogue whether the side facing you as you knit is to be the Right (Effects Face) or Wrong side, then click OK.

To knit an Integrated Shape/Stitch Pattern

First you need to have integrated your shape file piece(s) with a stitch pattern, then download it to the knitting machine.

Whilst you can select the knitting machine you will be using from within Interactive Knitting, if you do this from Stitch Designer or one of the shaping sections, DesignaKnit will not prevent you from going forward if the pattern is incompatible with the currently selected machine.

Integrate using Original Pattern Drafting.

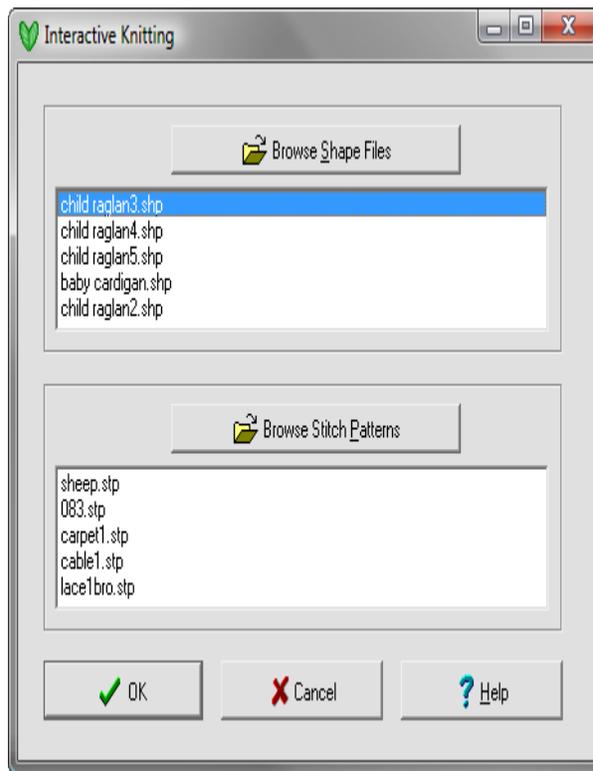
New to DesignaKnit 8 is the ability to integrate the stitch pattern with the shape in Original Pattern Drafting. This is faster than integrating in Stitch Designer, but does not allow you the ability to edit the stitch pattern within the shape - so if you want to check or make alterations to the stitch pattern itself, you must do this from Stitch Designer.

- i. Switch to Original Pattern Drafting. If the shape is not already open, open it using File/Thumbnails or File/Open or, if the file is one of the five most recently used file names on the File menu, just click on the name to open it.
- ii. Click on the piece that you want to integrate so that it becomes the active piece. If the stitch pattern is not already visible, select View/Stitch Pattern or View/Different Stitch Pattern.
- iii. In the middle of the active piece there is now a tag with 4 arrows. Click the left mouse button down on this tag and drag to move the stitch pattern across the garment piece. Release the mouse button when the registration is correct.
- iv. Save the integration by selecting File / Save.
- v. Go Stitch Designer to download the stitch pattern, then switch to Interactive Knitting.

Integrate using Stitch Designer

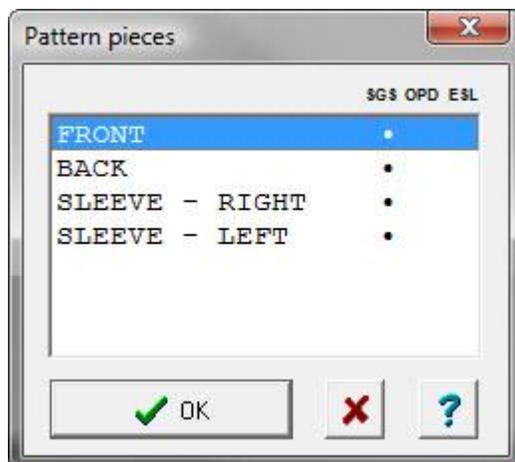
- i. Switch to the Stitch Designer section. Open the Stitch pattern using File/Thumbnails or File/Open, or if the file is one of the five most recently used file names on the File menu, just click to open it.
 - ii. Click on the View Piece button (or select Shapes/View Piece): if the shape file is not already open, you will be shown the Shapes Thumbnails browser first, then you can choose the piece to integrate.
 - iii. Position the piece(s) on the stitch pattern using the Move Piece tool.
 - iv. Select Shapes/Integrate and tick the check box next to the piece or pieces to be integrated with the current pattern and click OK.
 - v. Now save the integration information by selecting Shapes/Save Shape - or Save Shape As if you want to save this as a new shape file.
 - vi. If integrating caused the pattern to display a greater or lesser number of repeats, when you leave Stitch Designer you will be asked if you want to save the stitch pattern with the current number of repeats. If you prefer to keep the original version, you can opt not to do this - the integration information will not be affected and if you view the pieces again on this stitch pattern, the number of repeats will be adjusted automatically to accommodate them. To save the stitch pattern before leaving the section, click on the Save button or choose File/Save - or Save As to save as a new pattern.
1. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not,

then click on the Browse Shape Files button, which will open the Thumbnails browser.

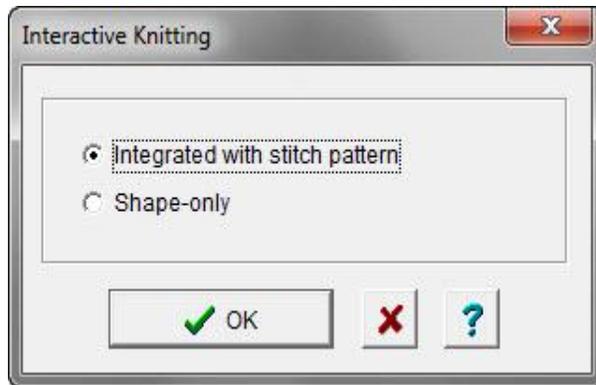


If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

2. Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



3. In the next dialogue, confirm that you want to knit the piece integrated with a stitch pattern:



2. Next, if you want to be warned when you need to carry out shaping instructions, change yarns or carriage settings, you should select the type of alerts you want (if any) by clicking on the appropriate buttons on the tool bar and, if you are using any of the audible options, make sure that your speakers are on.
3. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.



4. Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window and in the in the Progress window.

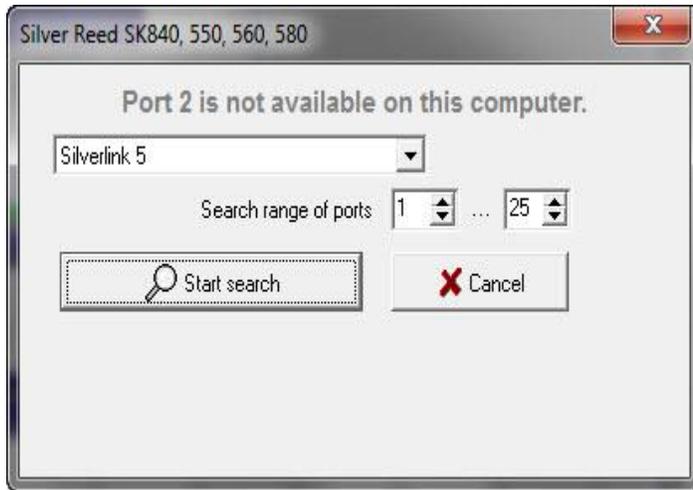


5. Make sure that your SilverLink is connected to the power supply and the curl cord, and that the curl cord is connected to the carriage.
6. Click the OK button on the Prepare to Synchronize Carriage dialogue.
7. DesignaKnit will now search for the SilverLink.

If you have used the SilverLink before you will see this message confirming the configuration before moving on to the next stage:



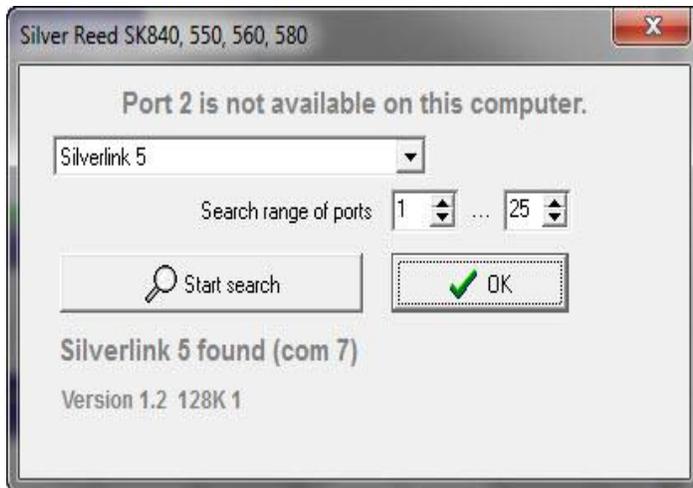
If this is the first time you have used the link, or if your last configured machine was a different type, you will see this dialogue:



If SilverLink 5 is not the displayed option, open the drop-down list and select it.

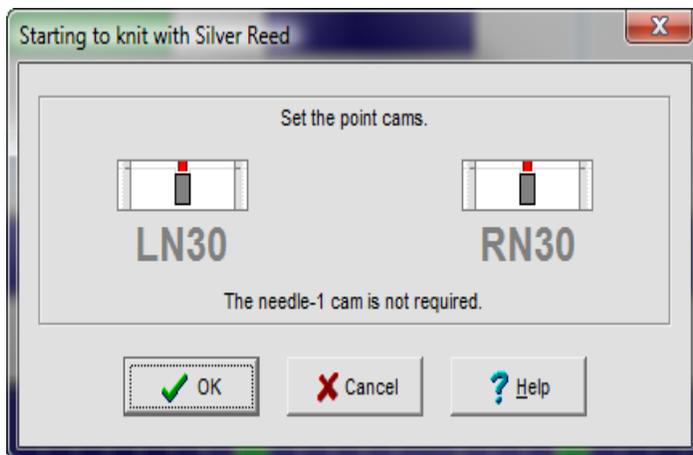
Click on the Start search button and wait while DesignaKnit finds and reconfigures your SilverLink.

NB: The reference to Port 2 is because that is the default setting when you first install DesignaKnit. Once the SilverLink has been found, DesignaKnit will automatically reconfigure the settings to match the new port settings and copy these to all Silver Reed/Studio/Singer machines on the list. If you see the message saying that the *new* port is not available, check to see if your link is connected to the mains and to the computer. If the message persists after DesignaKnit reports that the SilverLink has been found, you can safely ignore it.



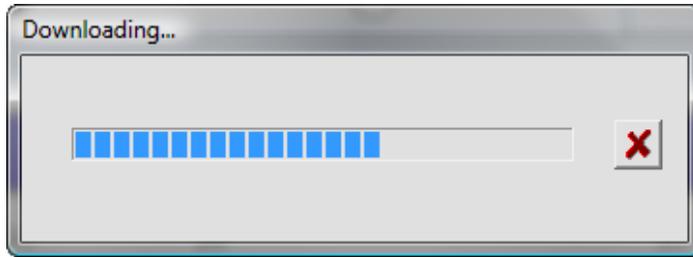
Click on OK to proceed.

8. The next message will tell you where to place the point cams on the needle bed - the position is determined either by width of the swatch you entered or shape piece: see notes below regarding moving the cams for edge increases and decreases on pieces such as sleeves. Note that the Needle-1 cam is not required.



Click on OK to confirm that this is done and you will see a message to the effect that the pattern is downloading; how long this will take will depend on the size and complexity of the pattern.

- **Stitch Pattern Only:** the carriage passes for a single repeat of the pattern will be downloaded, so for a small pattern repeat this may only take a few seconds. When you knit, however, the pattern will repeat horizontally and vertically over the number of stitches and rows configured at the start and within the point cams.
- **Integrated shape:** the download will consist of the number of carriage passes required to work the whole garment piece, regardless of the size of the single pattern repeat, so downloading could take considerably longer. In the case of a Jacquard pattern, for instance, or lace, this could entail a greater number of carriage passes than the maximum that can be downloaded into the memory, so the pattern will have to be downloaded in installments, as described below.
- **Shape-only:** data representing a blank pattern will be downloaded in order to prevent needles from selecting.



Please wait until the download progress bar indicates a completed download before beginning to knit.

If you want to cancel the download, click on the Cancel button.

9. When the download is complete, the dialogue will close and the Go button is automatically activated: you can now start knitting.

Large Patterns

SilverLink 4

The SilverLink 4 has the capacity to hold data for approximately 2040 carriage passes, but the actual number may be governed by the number necessary to complete a row or pair of rows. The next installment of the pattern will download automatically at the end of the last programmed row, at which point the countdown will register 0 and an audible alert or voice warning will sound. *You should stop knitting until the download is complete and the progress bar has disappeared.*

SilverLink 5

The SilverLink 5 can hold data for approximately 16368 carriage passes (if the downloaded pattern is no more than 64 sts) or 8184 passes (if no more than 144 sts), otherwise 4092 passes. The actual number may be governed by the number necessary to complete a row of lace knitting, or a pair of Jacquard rows.

The next installment of the pattern will download automatically at the end of the last programmed row, at which point the countdown will register 0 and an audible alert or voice warning will sound. *You should stop knitting until the download is complete and the progress bar has disappeared.*

Pausing during Interactive Knitting

SilverLink 4

To pause the knitting, click on the red Stop button. This prevents the SilverLink from trying to download any more information. DesignaKnit will remember the place from session to session, so you will be able to carry on from where you left off, but with the following considerations:

- The SilverLink 4 retains a pattern *only while it is powered on*. If you pause during knitting, but leave the computer and link powered on, you can carry on from where you left off simply by pressing the Go button to restart. If you have cause to unravel any rows, when you reset the row counter, either by using the down arrow button or from the menu bar Go/Go to RC, the SilverLink 4 will comply with the change without having to download the pattern again.
- *If you turn off the power* to the link, close the program or switch off the computer, the SilverLink 4 will *not* retain the data but, as DesignaKnit will remember where you left off, when you recommence you just need to click on the Ready button so that the pattern will be downloaded and will advance to the correct row so that you can start knitting at the correct place.

SilverLink 5

To pause the knitting, click the red Stop button. This prevents the SilverLink from trying to download any more information. DesignaKnit will remember the place.

The SilverLink 5 will retain the pattern in its memory if you stop during the knitting of a swatch or piece, even if you turn off the power so you can later carry on from where you left off as DesignaKnit will remember your place, *provided that you do not disconnect the SilverLink 5 or turn off its power supply until after you have clicked on the red Stop button.*

If you forget to click on the Stop button, you may find that you cannot restart knitting as DesignaKnit may report that the port is unavailable. If this happens, you should close the program and any other open programs and restart the computer. DesignaKnit will have kept a note of where you were in the pattern, so to restart knitting, click on the Ready button and follow any instructions.

Recommence knitting after unraveling rows

If you need to unravel any of the knitting, the first thing to do is turn off the Go button by clicking on the red Stop button straight away or click on the swatch or piece at the row to which you wish to return, or press the down arrow key once for each row unraveled: any of these actions will cancel the Go button.

When the knitting is unraveled as far as required, return the Interactive Knitting screen to the correct pattern row - either by clicking the down arrow key for each unraveled row or use the Go menu Go to RC option, then click the amber Ready button on DesignaKnit's tool bar. Return all needles to normal working position, set the point cams at their maximum settings, as instructed. If you need to make a free pass to put the carriage at the correct side, don't forget to set it to Slip while you do this, then reset the pattern lever to the correct technique, click the OK button and continue knitting.

Knitting Neckline Shaping with the SilverLink 4 or 5

Necklines may be shaped by holding or by decreasing. Whichever method you choose, DesignaKnit will advise when to divide for the neckline. The instructions will tell you to work the center shaping and put the remaining needles on one side into hold. In the case of a round neck, look at the needle bed display to see which center stitches should be either cast off or held with the needles for the second side. Reposition the point cam at the opposite end to the carriage and remember when decreasing, *only to move it at the opposite end to the carriage* otherwise the pattern will shift sideways.

1. On completion of the first side, the green Go button is automatically deactivated.
2. Cast off the last stitches or remove all held shoulder stitches with waste knitting.
3. Click the amber Ready button to return the on screen instructions to the start of the neck shaping and place the carriage on the side instructed in the Prepare to Synchronize Carriage dialogue.
4. Return the stitches into the needle hooks, placing the needles in normal working position and click the OK button,
5. Return the point cams to the maximum width of the piece as instructed, using free passes to ensure that you only move the cams at the opposite end to the carriage.
6. Click the OK button on the Prepare to Synchronize Carriage dialogue and insert the yarns into the appropriate feeders to continue knitting the second side.
7. Move the Point cams in at the opposite end to the carriage after the second side knitting has commenced.

Point Cams and Edge Shaping

The point cams must be outside the needles in working position, and the carriage must pass the cam when you finish a row to ensure that the pattern is downloaded properly. This means that if you are knitting a piece which is increased at the edges, such as a sleeve, you will have to move them outwards in order to keep the pattern correct, but it may be to your advantage when decreasing at the edge to move them inwards to keep the movement of the carriage to the minimum.

R U L E

- You may only move the cam which is at the opposite end of the needle bed to the carriage
- You must never move the cam at the same side as the carriage - or the pattern will shift sideways.

When starting to knit a sleeve, or any shape with increasing edge seams, DesignaKnit will instruct you to position the point cams at the maximum width of the piece to commence the knitting, even though the stitches cast on are considerably fewer than the maximum. Position them as instructed, knit the first row being sure to pass the point cams fully. Then move the cam at the end opposite to the carriage into the width of the actual needles in work. Knit the second row and move the opposite point cam.

As the more needles are brought into working position, so the point cams must be moved out accordingly. Move them only at the end opposite to the carriage to avoid mispatterning. For example, on a sleeve seam where a stitch is increased at each edge on a given row: work the increases, move the point cam opposite the carriage outwards, knit one row and then move the second point cam outwards. Continue to the next increase.

Decreases should observe the same "opposite end move" rule. The point cams don't have to match the width exactly, and it is okay to have them a few needles wider than the current row. That way you don't have to move the point cams every time there is a decrease.

BrotherLinks For Interactive Knitting

These CableLinks are designed to work with Brother (KnitKing) electronic knitting machines and/or PPD only.

Patterns intended for knitting on Brother must be downloaded first to the machine's memory or, if using a PPD, to the PPD which is then used to transfer the pattern to the machine's memory. Thus, before knitting, whether you are using Interactive Knitting or independently of the computer, you must first select the pattern number allocated by DesignaKnit at the start of the download process and, if at any time you have to unravel any rows or if you are returning to an earlier section of the pattern, e.g. for the second side of the neckline, you must reset the pattern correctly on the knitting machine, in which case you can follow the instructions given in Interactive Knitting.

While the pattern itself is not downloaded as you knit interactively, if your machine is connected with the appropriate link and you are using Interactive Knitting, passing the carriage across the needle bed sends a signal back to the computer and the Interactive Knitting screen is updated so that you are kept in touch with where you are in the swatch or piece and what to do in terms of color changing and carriage settings and, when knitting a piece, instructions for any shaping to be done before the next pass of the carriage.

This means that it is the machine's memory which controls the selection of the needles as you knit, but this in turn is governed by the knitting method you assigned to the stitch pattern and, in the case of F, R and W methods, any Smart Symbols you used.

Note that all patterns, irrespective of method are downloaded as if there is no color changer used which means that if you are knitting Fair Isle patterns, the needle selection must be reversed if using the single bed color changer: make sure that the color changer button on the side tool bar is switched on and, where appropriate, DesignaKnit will remind you to use the negative button on the machine's console to invert the selection. Other pattern techniques, such as tuck or slip (and Jacquard), are not affected as being one-color-per-row patterns, they only use the rear feeder.

BrotherLinks 1, 3 and 5 for KH940, KH950i and KH930

These instructions apply to the following BrotherLinks

BrotherLink 1

- BrotherLink 1 Serial for KH940 and KH950i
- BrotherLink Serial + USB Converter for KH940 and KH950i
- BrotherLink 1 USB for KH940 and KH950i

BrotherLink 3

The BrotherLink 3 is essentially a download-only cable, but can be adapted for interactive knitting with the addition either of the BL converter to make it into a BL1 or a KnitLink box which allows the carriage to synchronize with the computer.

- BrotherLink 3 Serial + BL3-to-BL1 Converter for KH940 and KH950i
- BrotherLink 3 Serial + BL3-to-BL1 Converter + USB Converter for KH940 and KH950i
- BrotherLink 3 Serial + KnitLink box for KH930 (KH940 and KH950i interactive knitting only, not downloading)
- BrotherLink 3 USB + BL3-to-BL1 Converter for KH940 or KH950i
- BrotherLink 3 USB Plus for KH930 (KH940 and KH950i interactive knitting only, not downloading)

BrotherLink 5

- BrotherLink 5 USB Multi for KH940 and KH950i

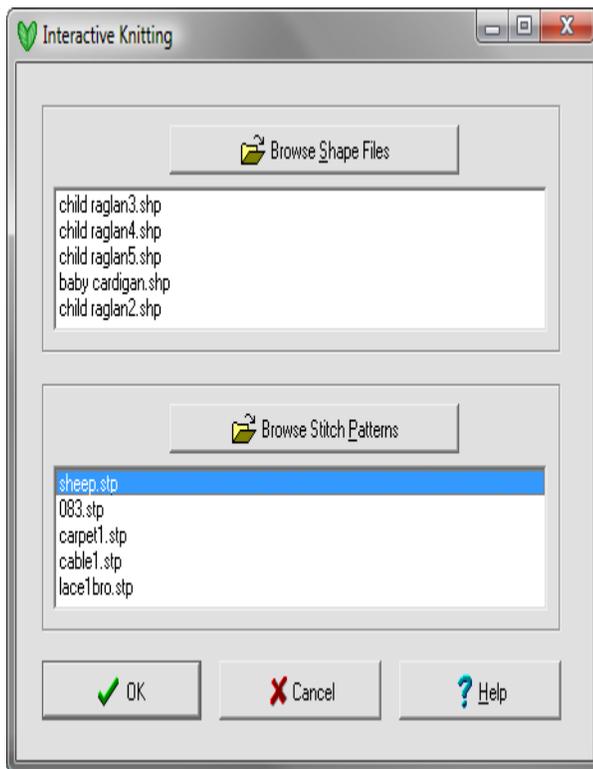
Knitting a swatch (stitch pattern only or Cut and Sew piece) with the BrotherLink 1/3/5

Whilst you can select the knitting machine you will be using from within Interactive Knitting, if you do this from Stitch Designer or one of the shaping sections, DesignaKnit will not prevent you from going forward if the pattern is incompatible with the currently selected machine.

1. Make sure that the pattern (or batch of patterns) have already been downloaded from Stitch Designer and that you have a note of the pattern number(s) allocated by DesignaKnit.

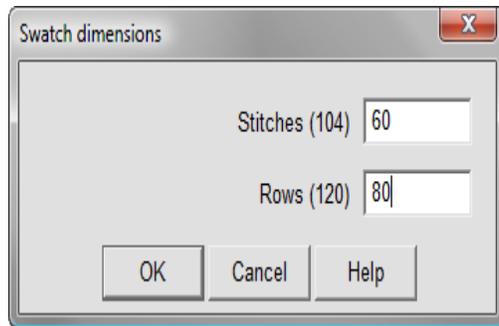
Cut and Sew pieces are stitch patterns which have had the outline of the shape embedded into the pattern and are knit as a single piece so that the shape can then be cut out and overlocked along the raw edges.

2. On entering Interactive Knitting, if the pattern you want is listed on the opening dialogue, you can select it and click OK; if not, then click on the Browse Stitch Patterns button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Stitch Pattern File menu and choose either Thumbnails or Open Stitch Pattern File for the normal Windows file opening dialogue.

3. The Swatch Dimensions dialogue then opens so that you can enter the size of the piece you are going to knit, whether this is a sample tension swatch or the entire pattern. The figures given in brackets show the size of a single pattern repeat of the saved pattern. You can decide whether to knit a partial pattern, a full repeat or a number of repeats, but remember that DesignaKnit will center the pattern on the needle bed.



When you have set the number of stitches and rows, click OK.

4. Next, if you want to be warned about color or technique changes, you should select the type of alerts you want (if any) by pressing the appropriate buttons and, if you are using any of the audible options, make sure that your speakers are on.
5. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.
6.  Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window: this will be at the opposite side to the position shown in the Progress window.
7. The stitch pattern is controlled from the machine's memory, so you now need to instruct the machine which downloaded pattern to knit:
 - i. press Step (M)
 - ii. when the pattern light is lit, enter the pattern number allocated by DesignaKnit during the download process (901, 902, etc)
 - iii. press Step (M) again - the display on the machine's console will now show the figure 1 to indicate row 1 of the pattern.
8. Turn the Change Knob to KC(I) or KC(II) as required and knit the pre-select row.
9. Click the OK button on the Prepare to Synchronize Carriage dialogue.
10. On the knitting machine carriage, press the technique button(s) required for the stitch type you are knitting and knit the swatch, following any color change or carriage setting instructions shown in the Yarns or Countdown windows respectively.

Knitting a Shape-Only Piece in Plain Knitting or with a Built in Stitch Pattern with the BrotherLink 1/3/5

1. Knit a tension swatch.
2. Create a Standard or Original shape file and save with the tension settings derived from the tension swatch.
3. If this is to be knit is to be plain stocking stitch or reverse stocking stitch or rib (i.e. without any downloaded pattern), switch to the Stitch Designer section and download the Default.stp stitch pattern to your machine, either on its own or as part of a batch.

This is because if you want to follow the shaping instructions, the carriage must be set to one of the KC options in order be connected to the drive band on the knitting machine so that it

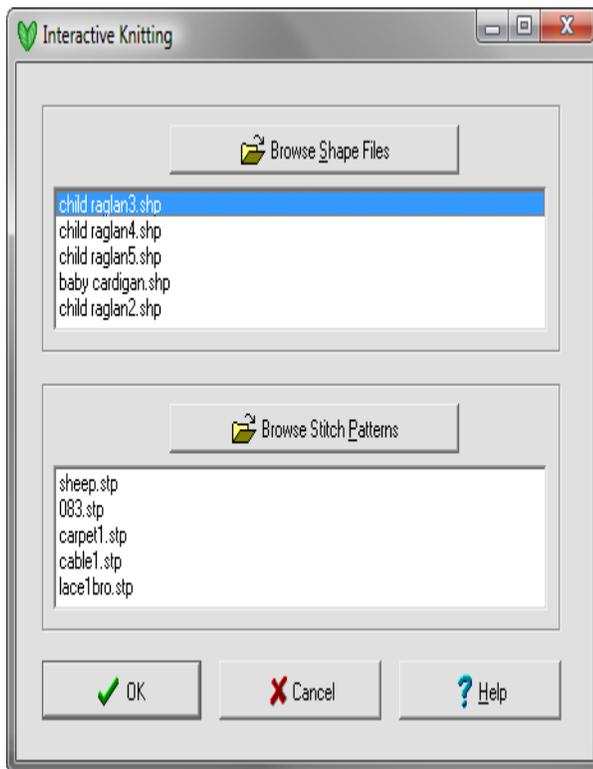
can send back the information to DesignaKnit so that the carriage is synchronized with the shaping instructions, which in turn means that the current pattern will select needles, even if you have set the carriage to plain knitting. In order not to have any needles selecting, you need a pattern with no associated selection.

TIP

It is a good idea to include the Default.stp pattern in every batch you download. If you always have this pattern at the top of the list you will know that pattern no. 901 is always for plain knitting.

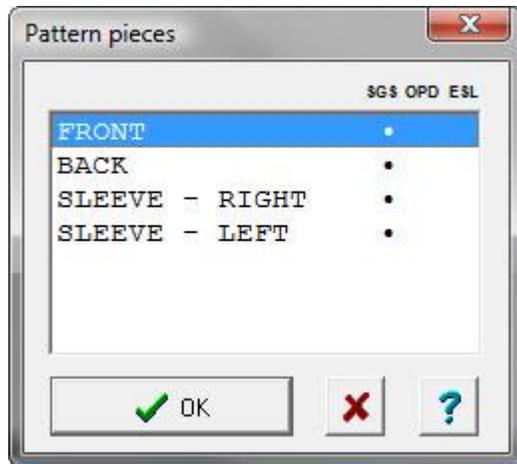
Note that if you have upgraded this USB 1 cable to a USB 5 cable you don't need to download the default.stp pattern or set the KC knob as the signal to the computer is sent from the magnet via the magnetic box rather than the drive band; this makes the carriage much easier - and quieter - to pass across the needle bed .

4. Switch to the Interactive Knitting section.
5. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not, then click on the Browse Shape Files button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

6. Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



7. If the piece has previously been integrated with a stitch pattern, you will then be offered the choice of knitting it with the stitch pattern or on its own: choose Shape-only, indicate in the dialogue whether the side facing you as you knit is to be the Right (Effects Face) or Wrong side, then click OK.
8. Next, if you want to be warned when you need to carry out shaping instructions, you should select the type of alerts you want (if any) by clicking on the appropriate buttons on the tool bar and, if you are using any of the audible options, make sure that your speakers are on.
9. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.
10.  Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the Progress window - unless you are using a built-in pattern, in which case you must have the carriage at the opposite side so that your carriage will be synchronized after you have worked the pre-selection pass.
11. If you are using the downloaded Default.stp to prevent needle selection, or one of the built-in patterns, remember the needle selection is controlled from the machine's memory, so you now need to instruct the machine which downloaded pattern to knit:
 - i. press Step (M)
 - ii. when the pattern light is lit, enter the pattern number allocated by DesignaKnit during the download process (e.g. 901, 902, etc)
 - iii. press Step (M) again - the display on the machine's console will now show the figure 1 to indicate row 1 of the pattern.
 - iv. Turn the Change Knob to KC(I) or KC(II) as required and knit the pre-select row - although of course this will not select any needles when using the default pattern.
12. If you are using the BrotherLink 5 magnet for plain knitting, you do not need to program a pattern or set the KC knob although of course this will not select any needles.
13. Click the OK button on the Prepare to Synchronize Carriage dialogue. This will automatically turn on the Go button.
14. On the knitting machine carriage, set the carriage for plain knitting (or if knitting a built-in or manually selected pattern press the technique button(s) required for the stitch type you

are knitting) and start knitting, following any shaping instructions shown in the Yarns or Countdown window.

15. To knit the next piece choose Select Piece from the Shape File menu and repeat from step 6.

Knitting an Integrated Shape/Stitch Pattern with the BrotherLink 1/3/5

First you need to have integrated your shape file piece(s) with a stitch pattern, then download it to the knitting machine.

Whilst you can select the knitting machine you will be using from within Interactive Knitting, if you do this from Stitch Designer or one of the shaping sections, DesignaKnit will not prevent you from going forward if the pattern is incompatible with the currently selected machine.

Integrate using Original Pattern Drafting.

New to DesignaKnit 8 is the ability to integrate the stitch pattern with the shape in Original Pattern Drafting. This is faster than integrating in Stitch Designer, but does not allow you the ability to edit the stitch pattern within the shape - so if you want to check or make alterations to the stitch pattern itself, you must do this from Stitch Designer.

1. Switch to Original Pattern Drafting. If the shape is not already open, open it using File/Thumbnails or File/Open or, if the file is one of the five most recently used file names on the File menu, just click on the name to open it.
2. Click on the piece that you want to integrate so that it becomes the active piece. If the stitch pattern is not already visible, select View/Stitch Pattern or View/Different Stitch Pattern.
3. In the middle of the active piece there is now a tag with 4 arrows. Click the left mouse button down on this tag and drag to move the stitch pattern across the garment piece. Release the mouse button when the registration is correct.
4. Save the integration by selecting File / Save.
5. Go Stitch Designer to download the stitch pattern, then switch to Interactive Knitting.

Integrate using Stitch Designer

1. Switch to the Stitch Designer section. Open the Stitch pattern using File/Thumbnails or File/Open, or if the file is one of the five most recently used file names on the File menu, just click to open it.
2. Click on the View Piece button (or select Shapes/View Piece): if the shape file is not already open, you will be shown the Shapes Thumbnails browser first, then you can choose the piece to integrate.
3. Position the piece(s) on the stitch pattern using the Move Piece tool.
4. Select Shapes/Integrate and tick the check box next to the piece or pieces to be integrated with the current pattern and click OK.
5. Now save the integration information by selecting Shapes/Save Shape - or Save Shape As if you want to save this as a new shape file.
6. If integrating caused the pattern to display a greater or lesser number of repeats, when you leave Stitch Designer you will be asked if you want to save the stitch pattern with the current number of repeats. If you prefer to keep the original version, you can opt not to do this - the integration information will not be affected and if you view the pieces again on this stitch pattern, the number of repeats will be adjusted automatically to accommodate them. To save the stitch pattern before leaving the section, click on the Save button or choose File/Save - or Save As to save as a new pattern.

7. Next, you need to download the pattern to the knitting machine, then transfer to Interactive Knitting.

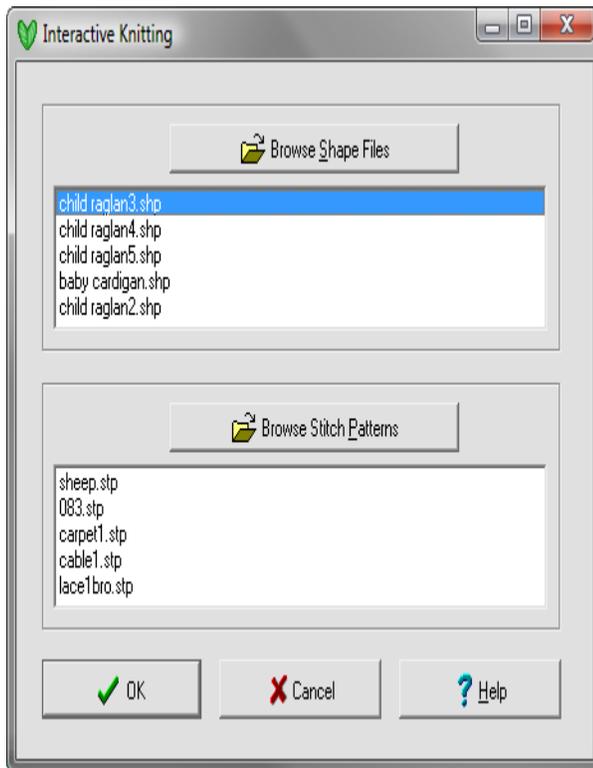
Download the Integrated Stitch Pattern

Full instructions for integrating and downloading are in the Stitch Designer Help, but briefly:

1. After integrating the shape file with a stitch pattern or patterns and saving it, select Transfer/Integrated Download.
2. Select the piece or pieces you want to download.
3. Follow the on-screen instructions to complete the download process.
4. Go to Interactive Knitting.

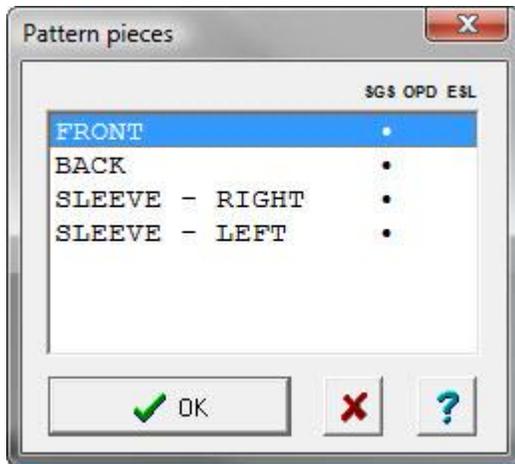
Knit the piece interactively

1. Switch to the Interactive Knitting section.
2. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not, then click on the Browse Shape Files button, which will open the Thumbnails browser.

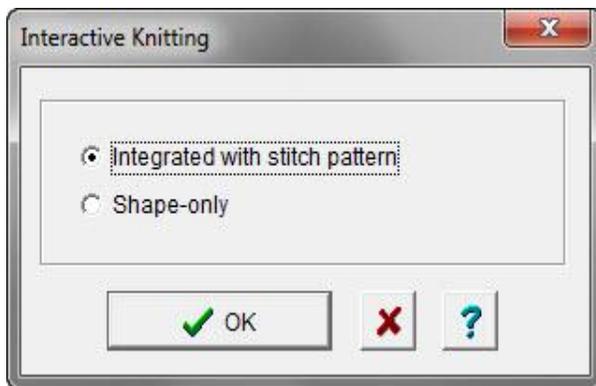


If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

3. Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



4. In the next dialogue, confirm that you want to knit the piece integrated with a stitch pattern:



5. Next, if you want to be warned when you need to carry out shaping instructions, change yarns or carriage settings, you should select the type of alerts you want (if any) by clicking on the appropriate buttons on the tool bar and, if you are using any of the audible options, make sure that your speakers are on.
6. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.



7. Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window: this will be at the opposite side to the position shown in the Progress window.
8. Remember the needle selection is controlled from the machine's memory, so you now need to instruct the machine which downloaded pattern to knit:
 - i. press Step (M)
 - ii. when the pattern light is lit, enter the pattern number allocated by DesignaKnit during the download process (e.g. 901, 902, etc)
 - iii. press Step (M) again - the display on the machine's console will now show the figure 1 to indicate row 1 of the pattern.

- iv. Turn the Change Knob to KC(I) or KC(II) as required and knit the pre-select row - although of course this will not select any needles when using the default pattern.
10. Click the OK button on the Prepare to Synchronize Carriage dialogue.
11. On the knitting machine carriage, set the carriage buttons as required for the stitch type you are knitting.... and start knitting, following any yarn changes or shaping instructions and carriage settings shown in the Yarns or Countdown window.

Knitting Neckline Shaping with the BrotherLink 1/3/5

Necklines may be shaped by holding or by decreasing. Whichever method you choose, DesignaKnit will advise when to divide for the neckline. The instructions will tell you to work the center shaping and put the remaining needles on one side into hold. You must still tell the knitting machine that you wish to return to this row later by pressing the M key if this facility is available on your machine. In the case of a round neck, look at the needle bed display to see which center stitches should be either cast off or held with the needles for the second side - although of course you may prefer to remove these onto waste yarn.

1. On completion of the first side, the green Go button is automatically deactivated.
2. Cast off the last stitches or remove all held shoulder stitches with waste knitting.
3. Click the amber Ready button to return the on-screen instructions to the start of the neck shaping and place the carriage on the side instructed in the Prepare to Synchronize Carriage dialogue.
4. Return the stitches into the needle hooks, placing the needles in normal working position.
5. Return the pattern in the knitting machine's memory to the correct row by pressing the M key (KH950i enter the Stitch Pattern Row [ST.PAT] displayed in the Countdown window and press CF).
6. Work a pre-select row as instructed and then insert the yarns into the appropriate feeder.
7. Click the OK button to continue knitting the second side.

Recommence knitting after a break

When the green Go button is on, this will prevent the screen saver from starting. If you leave your knitting for a while and you want the screen saver to activate, click on the red Stop button. When you want to continue, click on the Go button. You will then be able to continue from where you left off.

Recommence knitting after unraveling rows

If you need to unravel any of the knitting, the first thing to do is turn off the Go button by clicking on the red Stop button straight away or click on the swatch or piece at the row to which you wish to return, or press the down arrow key once for each row unraveled: any of these actions will cancel the Go button.

When the knitting is unraveled as far as required, set the pattern row on the knitting machine and click the amber Ready button on DesignaKnit. Return all needles to normal working position, set the carriage to Slip until the pre-select pass has been done, then reset to the correct technique, click the OK button and continue knitting.

Machine Memory Limitations

Depending on the number of colors being separated for a Jacquard pattern or the complexity of a lace pattern made with the lace tool, the machine's memory might not have enough capacity to enable downloading in one go. This is particularly true of the KH930 which has a very much smaller memory than either the KH940 or KH950i. If this is the case, DesignaKnit will warn you.

Download the first section then, when you have finished knitting that part, Interactive Knitting will tell you when to download the next section. To do this, you must return to Stitch Designer.

1. Knit the first pattern section and, when the knitting machine beeps, click Interactive Knitting's red Stop button. Leave the cable in place.
2. Shortcut to Stitch Designer and download the next section of your stitch pattern (do not be tempted to superimpose the shape at a different position: it works without any adjustment).
3. Return to Interactive Knitting, selecting the same shape file and piece: Interactive Knitting will return to where you were when you left it.
4. Program the knitting machine to knit the downloaded pattern and click the amber Ready button. Follow the Prepare to Synchronize Carriage instructions, then click the OK button to continue knitting.

BrotherLinks 2, 4 and 5

These instructions apply to the following of the BrotherLinks:

BrotherLink 2 for KH965i and KH930

- BrotherLink 2 Serial for KH965i and KH930
- BrotherLink 2 Serial + USB Converter for KH965i and KH930

BrotherLink 4 for KH965, KH965i, KH270 and KH970

- BrotherLink 4 Serial Cartridge-free Cable for KH965 and KH270
- BrotherLink 4 Serial Cartridge-free Cable for KH965 and KH270 + USB Converter
- BrotherLink 4 USB Plus for KH900, KH965, KH270, KH965i and KH970
- BrotherLink 4 USB + Plus Converter for KH900, KH965, KH270, KH965i and KH970

BrotherLink 5 for KH965i and KH970

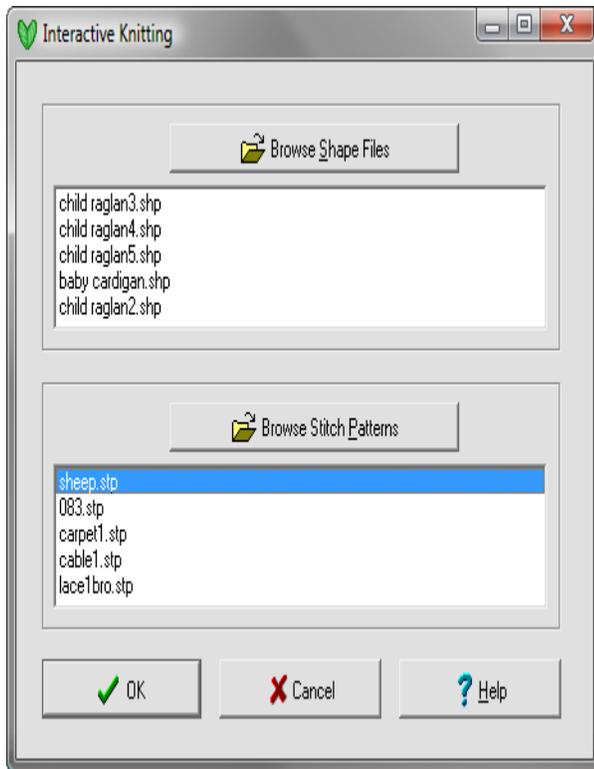
- BrotherLink 5 Serial for KH965i and KH970
- BrotherLink 5 Serial + USB Converter for KH965i and KH970
- BrotherLink 5 USB Multi for KH970, KH965i, KH950i, KH940 and KH930

Knitting a swatch (stitch pattern only or Cut and Sew piece) with the BrotherLink 2/4/5

Whilst you can select the knitting machine you will be using from within Interactive Knitting, if you do this from Stitch Designer or one of the shaping sections, DesignaKnit will not prevent you from going forward if the pattern is incompatible with the currently selected machine.

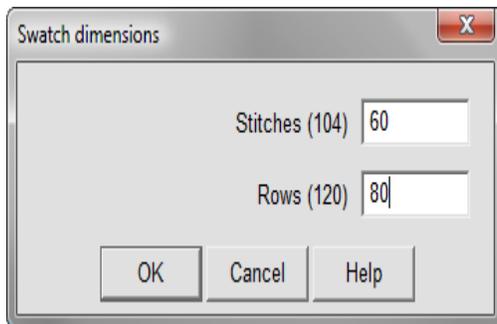
1. Make sure that the pattern (or batch of patterns) have already been downloaded from Stitch Designer and that you have a note of the pattern number(s) allocated by DesignaKnit.

Cut and Sew pieces are stitch patterns which have had the outline of the shape embedded into the pattern and are knit as a single piece so that the shape can then be cut out and overlocked along the raw edges.
2. On entering Interactive Knitting, if the pattern you want is listed on the opening dialogue, you can select it and click OK; if not, then click on the Browse Stitch Patterns button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Stitch Pattern File menu and choose either Thumbnails or Open Stitch Pattern File for the normal Windows file opening dialogue.

3. The Swatch Dimensions dialogue then opens so that you can enter the size of the piece you are going to knit, whether this is a sample tension swatch or the entire pattern. The figures given in brackets show the size of a single pattern repeat of the saved pattern. You can decide whether to knit a partial pattern, a full repeat or a number of repeats, but remember that DesignaKnit will center the pattern on the needle bed.



When you have set the number of stitches and rows, click OK.

4. Next, if you want to be warned about color or technique changes, you should select the type of alerts you want (if any) by pressing the appropriate buttons and, if you are using any of the audible options, make sure that your speakers are on.
5. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on

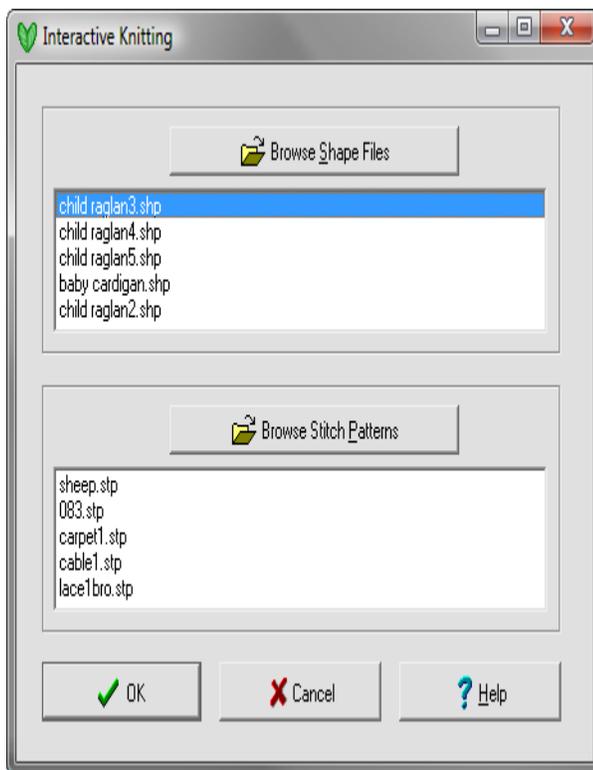
the Start of Section button  to return to the first row.



6. Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window: this will be at the opposite side to the position shown in the Progress window.
7. The stitch pattern is controlled from the machine's memory, so you now need to instruct the machine which downloaded pattern to knit:
 - i. press Step (M)
 - ii. when the pattern light is lit, enter the pattern number allocated by DesignaKnit during the download process (901, 902, etc)
 - iii. press Step (M) again - the display on the machine's console will now show the figure 1 to indicate row 1 of the pattern.
8. Turn the Change Knob to KC(I) or KC(II) as required and knit the pre-select row.
9. Click the OK button on the Prepare to Synchronize Carriage dialogue.
10. On the knitting machine carriage, press the technique button(s) required for the stitch type you are knitting and knit the swatch, following any color change or carriage setting instructions shown in the Yarns or Countdown windows respectively.

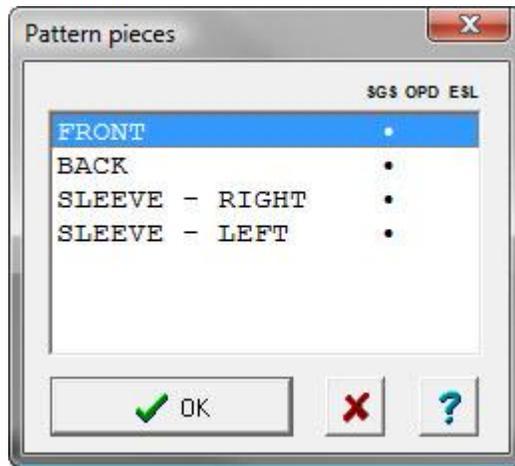
Knitting a Shape-Only Piece in Plain Knitting or with a built-in pattern with the BrotherLink 2/4/5

1. Switch to the Interactive Knitting section.
2. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not, then click on the Browse Shape Files button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

3. Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



4. If the piece has previously been integrated with a stitch pattern, you will then be offered the choice of knitting it with the stitch pattern or on its own: choose Shape-only, indicate in the dialogue whether the side facing you as you knit is to be the Right (Effects Face) or Wrong side, then click OK.
5. Next, if you want to be warned when you need to carry out shaping instructions, you should select the type of alerts you want (if any) by clicking on the appropriate buttons on the tool bar and, if you are using any of the audible options, make sure that your speakers are on.
6. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.



7. Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window which will match the position shown in the Progress window.
8. If you are using a built-in pattern, finish with the carriage at the opposite side to the position shown in the Progress window. Now, program the machine with the number of the built in pattern you will be using, set the KC knob to KC(1) or KC(2) and work the pre-select row so that the carriage position correct.
9. Click the OK button on the Prepare to Synchronize Carriage dialogue.
10. On the knitting machine carriage, set the carriage for plain knitting (or if knitting a built-in or manually selected pattern press the technique button(s) required for the stitch type you are knitting) and start knitting, following any shaping instructions shown in the Yarns or Countdown window.

Knitting an Integrated Shape + Stitch Pattern with the BrotherLink 2/4/5

First you need to have integrated your shape file piece(s) with a stitch pattern, then download it to the knitting machine.

Whilst you can select the knitting machine you will be using from within Interactive Knitting, if you do this from Stitch Designer or one of the shaping sections, DesignaKnit will not prevent you from going forward if the pattern is incompatible with the currently selected machine.

Integrate using Original Pattern Drafting.

New to DesignaKnit 8 is the ability to integrate the stitch pattern with the shape in Original Pattern Drafting. This is faster than integrating in Stitch Designer, but does not allow you the ability to edit the stitch pattern within the shape - so if you want to check or make alterations to the stitch pattern itself, you must do this from Stitch Designer.

1. Switch to Original Pattern Drafting. If the shape is not already open, open it using File/Thumbnails or File/Open or, if the file is one of the five most recently used file names on the File menu, just click on the name to open it.
2. Click on the piece that you want to integrate so that it becomes the active piece. If the stitch pattern is not already visible, select View/Stitch Pattern or View/Different Stitch Pattern.
3. In the middle of the active piece there is now a tag with 4 arrows. Click the left mouse button down on this tag and drag to move the stitch pattern across the garment piece. Release the mouse button when the registration is correct.
4. Save the integration by selecting File / Save.
5. Go Stitch Designer to download the stitch pattern, then switch to Interactive Knitting.

Integrate using Stitch Designer

1. Switch to the Stitch Designer section. Open the Stitch pattern using File/Thumbnails or File/Open, or if the file is one of the five most recently used file names on the File menu, just click to open it.
2. Click on the View Piece button (or select Shapes/View Piece): if the shape file is not already open, you will be shown the Shapes Thumbnails browser first, then you can choose the piece to integrate.
3. Position the piece(s) on the stitch pattern using the Move Piece tool.
4. Select Shapes/Integrate and tick the check box next to the piece or pieces to be integrated with the current pattern and click OK.
5. Now save the integration information by selecting Shapes/Save Shape - or Save Shape As if you want to save this as a new shape file.
6. If integrating caused the pattern to display a greater or lesser number of repeats, when you leave Stitch Designer you will be asked if you want to save the stitch pattern with the current number of repeats. If you prefer to keep the original version, you can opt not to do this - the integration information will not be affected and if you view the pieces again on this stitch pattern, the number of repeats will be adjusted automatically to accommodate them. To save the stitch pattern before leaving the section, click on the Save button or choose File/Save - or Save As to save as a new pattern.
7. Next, you need to download the pattern to the knitting machine, then transfer to Interactive Knitting.

Download the Integrated Stitch Pattern

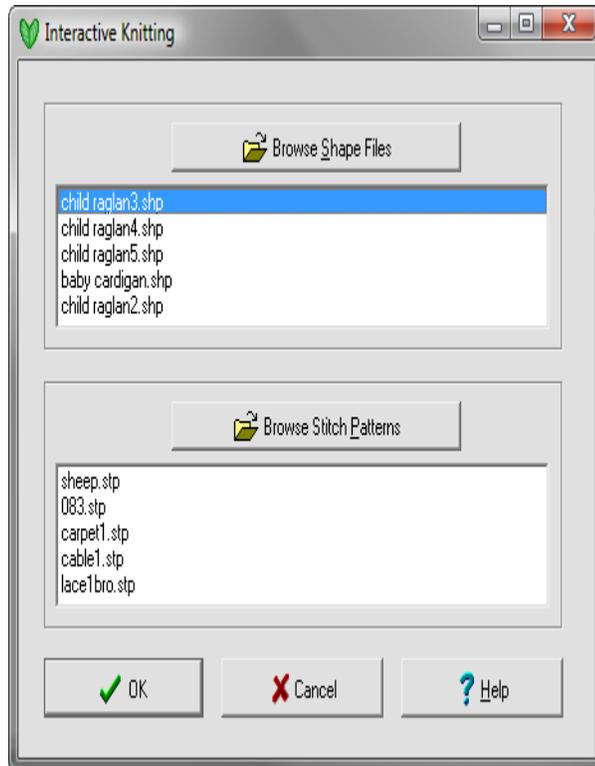
Full instructions for integrating and downloading are in the Stitch Designer Help, but briefly:

1. After integrating the shape file with a stitch pattern or patterns and saving it, select Transfer/Integrated Download.

2. Select the piece or pieces you want to download.
3. Follow the on-screen instructions to complete the download process.
4. Go to Interactive Knitting.

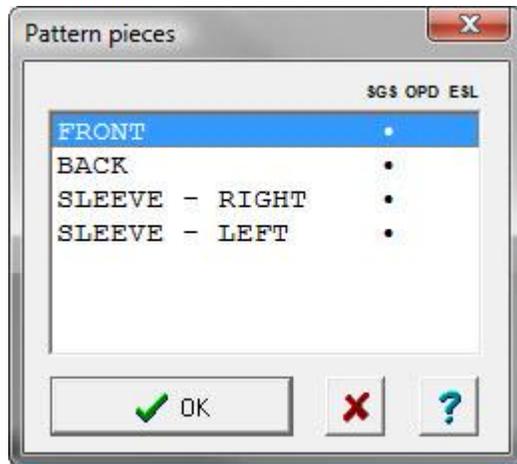
Knit the piece interactively

1. Switch to the Interactive Knitting section.
2. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not, then click on the Browse Shape Files button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

3. Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



4. In the next dialogue, confirm that you want to knit the piece integrated with a stitch pattern:



5. Next, if you want to be warned when you need to carry out shaping instructions, change yarns or carriage settings, you should select the type of alerts you want (if any) by clicking on the appropriate buttons on the tool bar and, if you are using any of the audible options, make sure that your speakers are on.
6. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.



7. Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window: this will be at the opposite side to the position shown in the Progress window.
8. Remember the needle selection is controlled from the machine's memory, so you now need to instruct the machine which downloaded pattern to knit:
 - i. press Step (M)
 - ii. when the pattern light is lit, enter the pattern number allocated by DesignaKnit during the download process (e.g. 901, 902, etc)
 - iii. press Step (M) again - the display on the machine's console will now show the figure 1 to indicate row 1 of the pattern.

- iv. Turn the Change Knob to KC(I) or KC(II) as required and knit the pre-select row - although of course this will not select any needles when using the default pattern.
10. Click the OK button on the Prepare to Synchronize Carriage dialogue.
11. On the knitting machine carriage, set the carriage buttons as required for the stitch type you are knitting.... and start knitting, following any yarn changes or shaping instructions and carriage settings shown in the Yarns or Countdown window.

Knitting Neckline Shaping with the BrotherLink 2/4/5

Necklines may be shaped by holding or by decreasing. Whichever method you choose, DesignaKnit will advise when to divide for the neckline. The instructions will tell you to work the center shaping and put the remaining needles on one side into hold. You must still tell the knitting machine that you wish to return to this row later by pressing the M key if this facility is available on your machine. In the case of a round neck, look at the needle bed display to see which center stitches should be either cast off or held with the needles for the second side - although of course you may prefer to remove these onto waste yarn.

1. On completion of the first side, the green Go button is automatically deactivated.
2. Cast off the last stitches or remove all held shoulder stitches with waste knitting.
3. Click the amber Ready button to return the on-screen instructions to the start of the neck shaping and place the carriage on the side instructed in the Prepare to Synchronize Carriage dialogue.
4. Return the stitches into the needle hooks, placing the needles in normal working position.
5. Return the pattern in the knitting machine's memory to the correct row by pressing the M key (KH950i enter the Stitch Pattern Row [ST.PAT] displayed in the Countdown window and press CF).
6. Work a pre-select row as instructed and then insert the yarns into the appropriate feeder.
7. Click the OK button to continue knitting the second side.

Knitting Jacquard patterns with the KH970

The KH970 machine incorporates the facility to separate 3- and 4-color jacquard patterns within the console. Thus the download command for this machine includes an option to download without first separating the colors so that the knitting machine will perform this function. However, there are implications in this which affect how the knitting machine should be configured for knitting the pattern and whether DesignaKnit's Interactive Knitting facility can be used. Consider carefully these implications before choosing this option.

Whichever of the following download options is chosen, please note that all patterns which have more than two colors per row, whether they will be separated by DesignaKnit or by the knitting machine, must have a Jacquard method allocated in DesignaKnit: DesignaKnit cannot allow any other technique when there are more than two colors in a row.

When downloading a pattern with three or four colors in a row, DesignaKnit offers the following options:

Downloading as a ready-separated pattern

You must choose this option if you intend to follow the Interactive Knitting instructions.

When you choose this method, DesignaKnit handles the color separation, allowing you the freedom to set the Jacquard Separation method as well as the ability to allocate specific

colors to specific yarn feeders. When choosing to follow Interactive Knitting, the yarn change and, in an integrated pattern, the shaping instructions will be fully synchronized with the carriage movement and selection of needles. Before starting to knit make sure that the machine is correctly set up; follow the machine manual instructions as for patterns 484 to 498 - that is with both the double length button and the MCRib button OFF.

Note: With this method of downloading, no matter how many colors per row, after DesignaKnit has separated the colors, the CB - 1 will list the patterns as 2-color.

Downloading as an unseparated 3- or 4-color pattern

Choose this option to download a pattern which will have the colors separated by the knitting machine. In this case, set up the machine following the manual instructions for patterns 479 to 483 - that is with both the double length button and the MCRib button ON.

Note: if you choose this method of downloading you will *not* be able to follow the interactive knitting instructions for color changing in DesignaKnit, or print them out, but must follow those displayed on the CB - 1. If you wish to follow the Interactive Knitting instructions for the shaping, then you should treat the project as knitting a shape only with a built-in pattern. The special considerations for measuring tensions for this method also apply to printing shaping instructions.

Downloading with color Changer On

When downloading a pattern to this machine, with the color changer configured on, it is necessary for every color used in the pattern to have been assigned a Memo number in order to drive the automatic color changer. To assign Memo information, go to Palettes/Memo and drag Memo numbers onto the palette colors. To view the Memo information, select View/Memo.

Recommence knitting after a break

When the green Go button is on, this will prevent the screen saver from starting. If you leave your knitting for a while and you want the screen saver to activate, click on the red Stop button. When you want to continue, click on the Go button. You will then be able to continue from where you left off.

Recommence knitting after unraveling rows

If you need to unravel any of the knitting, the first thing to do is turn off the Go button by clicking on the red Stop button straight away or click on the swatch or piece at the row to which you wish to return, or press the down arrow key once for each row unraveled: any of these actions will cancel the Go button.

When the knitting is unraveled as far as required, set the pattern row on the knitting machine and click the amber Ready button on DesignaKnit. Return all needles to normal working position, set the carriage to Slip until the pre-select pass has been done, then reset to the correct technique, click the OK button and continue knitting.

Machine Memory Limitations

If you have a very large Jacquard or lace pattern, depending on the number of colors being separated for Jacquard, or the complexity of the lace pattern, the machine's memory might not have enough capacity to enable downloading in one go. If this is the case, DesignaKnit will warn you. Download the first section then, when you have finished knitting that part, Interactive

Knitting will tell you when to download the next section. To do this, you must return to Stitch Designer.

1. Knit the first pattern section and, when the knitting machine beeps, click Interactive Knitting's red Stop button. Leave the cable in place.
2. Shortcut to Stitch Designer and download the next section of your stitch pattern (do not be tempted to superimpose the shape at a different position: it works without any adjustment).
3. Return to Interactive Knitting, selecting the same shape file and piece: Interactive Knitting will return to where you were when you left it.
4. Program the knitting machine to knit the downloaded pattern and click the amber Ready button. Follow the Prepare to Synchronize Carriage instructions, then click the OK button to continue knitting.

Pfaff/PassapLinks For Interactive Knitting

These instructions apply to the following CableLinks:

- Passap/Pfaff E6000Link 2 Serial
- Passap/Pfaff E6000Link 2 Serial + USB Converter
- Passap/Pfaff E6000Link 2 USB
- Passap/Pfaff E8000Link Serial
- Passap/Pfaff E8000Link Serial + USB Converter

Please note that during interactive knitting, the pusher selection is controlled by the pattern in the console, not the E6000Link or the E8000Link. What these links do is feed back information to the computer that the carriage has passed across the needle bed so that instructions for color changing, carriage settings and instructions for shaping are synchronized with the pattern as you knit.

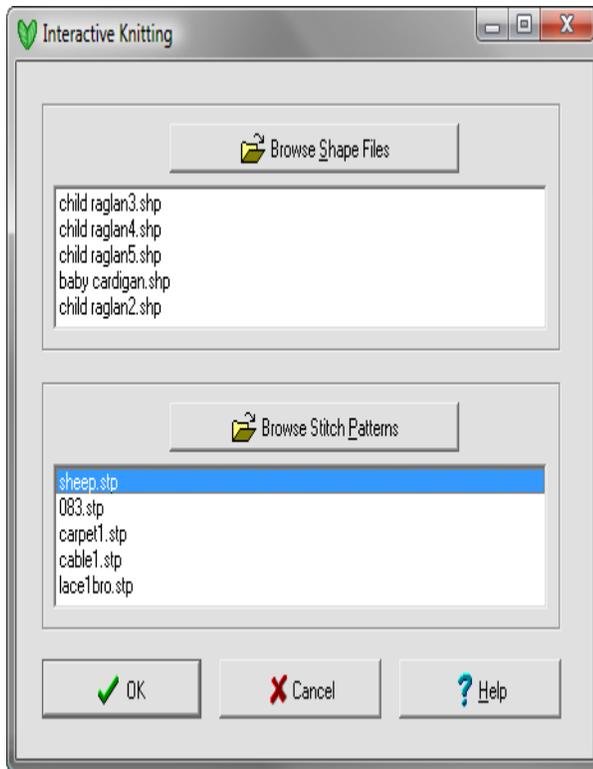
Knitting a swatch (stitch pattern only or Cut and Sew piece) with the E6000Link 2 or E8000Link

Whilst you can select the knitting machine you will be using from within Interactive Knitting, if you do this from Stitch Designer or one of the shaping sections, DesignaKnit will not prevent you from going forward if the pattern is incompatible with the currently selected machine.

1. Make sure that the pattern or patterns have already been downloaded from Stitch Designer and that the selected Method of Knitting is appropriate for the technique chosen when downloading and that you have a note of the pattern reference (e.g. A, B, C, etc.)

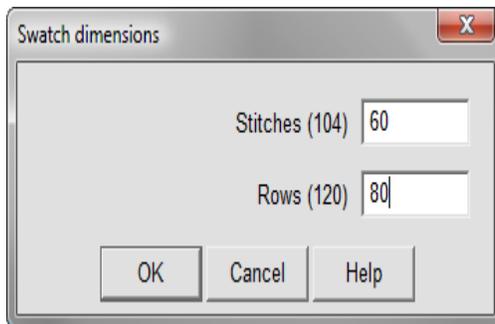
Cut and Sew pieces are stitch patterns which have had the outline of the shape embedded into the pattern and are knit as a single piece so that the shape can then be cut out and overlapped along the raw edges.

2. On entering Interactive Knitting, if the pattern you want is listed on the opening dialogue, you can select it and click OK; if not, then click on the Browse Stitch Patterns button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Stitch Pattern File menu and choose either Thumbnails or Open Stitch Pattern File for the normal Windows file opening dialogue.

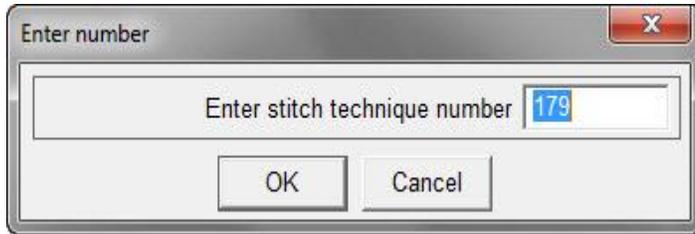
3. The Swatch Dimensions dialogue then opens so that you can enter the size of the piece you are going to knit, whether this is a sample tension swatch or the entire pattern. The figures given in brackets show the size of a single pattern repeat of the saved pattern. You can decide whether to knit a partial pattern, a full repeat or a number of repeats, but remember that DesignaKnit will center the pattern on the needle bed.



Note that 'Rows' refers to the number of pattern rows, not the number of lock passes needed to complete a row.

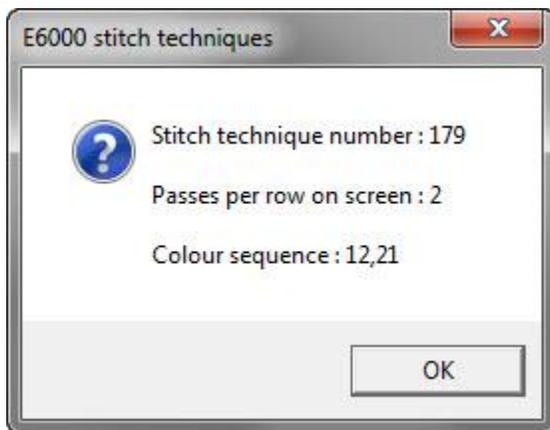
When you have set the number of stitches and rows, click OK.

4. You will now be asked to enter the reference number of the technique you are going to use:



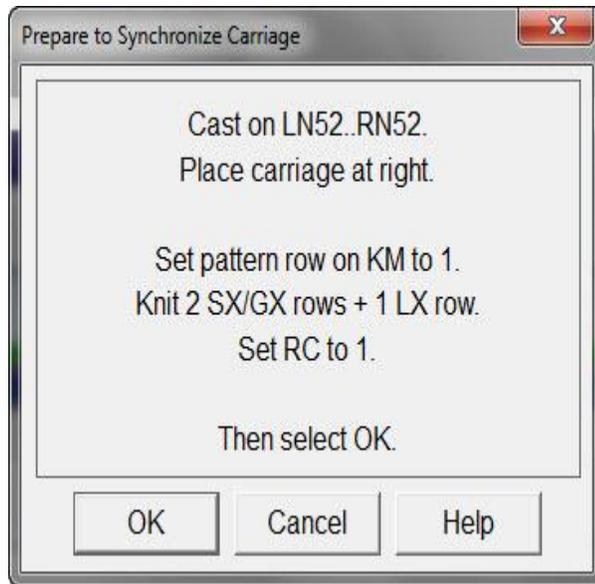
This is so that DesignaKnit can calculate the number of lock passes per pattern row in order to keep the instructions in synch with the knitting. It is important, therefore, that the technique number you enter here is the same as the one you allocated to the pattern when you downloaded it.

DesignaKnit will then confirm the technique, the number of passes per row and, if appropriate, the color sequence for a Jacquard:



5. Next, if you want to be warned about color or technique changes, you should select the type of alerts you want (if any) by pressing the appropriate buttons and, if you are using any of the audible options, make sure that your speakers are on.
6. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.

7.  Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window: this will be at the opposite side to the position shown in the Progress window.
8. The stitch pattern is controlled from the machine's console, so you now need to program this to knit the downloaded pattern, following DesignaKnit's instructions:



9. Continue programming the console, entering the left and right needles as instructed by DesignaKnit, and then advance the program to Stitch Pattern A (or whichever pattern you are going to knit).
10. Set the CableLink for Interactive Knitting:
 - E6000Link 2 Serial, E6000Link 2 Serial + Converter, E8000Link Serial and E8000Link Serial + Converter: Turn the KnitLink switch to the red spot, ready for interactive knitting.
 - E6000Link USB: Disconnect the downloading part of the cable from the console and reconnect the console to the knitting machine
11. Cast on the number of stitches indicated and work the SX/GX rows to arrange pusher selection, ending with the locks on the side instructed in the Prepare to Synchronize Carriage dialogue.

Please note that for Technique 179 on the E6000, a single LX row must be worked after the SX.GX rows, placing the locks on the left side of the needle beds

12. Click the OK button on the Prepare to Synchronize Carriage dialogue.
13. Set the locks as required for the stitch type you are knitting and knit the swatch, following any color change or lock setting instructions shown in the Yarns or Countdown windows respectively.

Knitting a single pattern repeat across the full needle bed of the E6000

There is a total of 179 needles on the front (patterning) bed: 90 needles on the left side, and 89 on the right side. In spite of there being more needles on the left, downloaded patterns with an odd number of stitches are centered to the right. This is a characteristic of the E6000, not DesignaKnit.

This curious feature means that if you should ever want to knit a color pattern which extends over all 179 needles, you would need to create a 180-stitch pattern. Stitch 1 of the pattern will be on left needle 90, and stitch 179 on right needle 89, but stitch 180 of the pattern is not actually knit.

This is because if you download a color pattern having 179 stitches, the pattern will be centered to the right and therefore appears from left needle 89 to right needle 89, with the rightmost stitch

corresponding to the non-existent right needle 90 and therefore not knit. The pattern on the leftmost stitch of the color pattern appears on left needle 89, while left needle 90 is unused.

Knitting and measuring tension swatches

This advice is also available in [Stitch Designer Help/Tensions](#)

Compensating for pattern distortion according to technique

Passes of the locks are not usually the same as rows of stitch pattern (which are grid rows on the screen). The E6000/E8000 (and Duomatic) machines generally knit two complete rows for every row drawn on the reader/punch card or downloaded via the computer. For example, a color pattern of ten rows designed on screen will usually be twenty rows when knit. There are of course exceptions to this rule when choosing a technique that does not double the rows: for example, E6000 techniques 129, 135, 172, 179, 252, 253, 254, and 255.

When knitting a swatch for calculating the tension gauge, there is a further complication: there may be additional lock passes required to knit each row or pair of rows, according to the technique. In order to avoid confusion and to ensure that your gauge is correct for both stitch pattern and garment shape designing, it is recommended that you adhere to one of the following methods of calculating and entering the stitch and row tension.

There is a chicken and egg situation here: until you have designed your stitch pattern, knit a test swatch, and measured the tensions, you do not know the exact tensions to enter into DesignaKnit. However, it is best to start with a grid on the screen which has approximately the correct dimensions for your stitch pattern and technique before you start designing, otherwise your color pattern could be elongated or compressed.

Estimating tensions

If you don't mind a little distortion, and you are using a common combination of yarn and technique, you can enter an approximate tension as in **method 1**, but for exact proportion grids follow **method 2**.

Method 1: for Bird's-eye Jacquard

- For 2 color Jacquard using technique 180 and 3 ply yarn, enter 28 stitches and 23 rows to 10 cm.
- For 3 color Jacquard using technique 195 and 2 ply yarn, enter 32 stitches and 23 rows to 10 cm.
- For 4 color Jacquard using technique 207 and 2 ply yarn, enter 32 stitches and 18 rows to 10 cm.

Method 2: for any technique and yarn

1. Choose a pattern, or roughly design one, which is similar in construction to the one you wish to design and which uses the same knitting technique - this is important! Knit a 40 stitch by 60 row TEST swatch which should start and end with 20 rows in waste knitting (the 60 rows are 60 lock passes, not 60 complete rows of pattern). E6000 knitters should program the console until TEST appears, and then ENT, to knit the swatch following instructions on the console. You should program a cast on method suitable for the knitting technique, for example cast on 6 is suitable for single bed knitting and cast on 2 for full needle rib (Jacquard) knitting.
2. Let the swatch rest, as is usual for a tension swatch, and then measure it with a centimeter rule. Make a note of the exact measurements (3.8 cm must NOT be rounded to 4 cm!).

3. In the Options menu of Stitch Designer, select Units of Measurement and set them to centimeters.
4. To calculate the number of stitches in 10 cm, divide 400 by the measurement of the 40 stitches:
 - Stitches per 10 cm = $400 / \text{measurement}$

The number of rows must be adjusted according to the technique of knitting and so is a little more complicated:

To determine the number of passes per grid row if you are unsure, you can open any stitch pattern with the same method of knitting in Interactive Knitting. Select E6000 Technique from the Options menu, enter the technique number and a dialogue box will open listing the number of passes per row and the color sequence.

5. Multiply the measurement of the 60 pass swatch by the number of lock passes per grid row, and divide 600 by the result:
 - Pattern rows per 10 cm = $600 / (\text{measurement} \times \text{passes-per-row})$

The number of stitches and rows per 10 cm, obtained by the above calculations, are the numbers to be entered in the Tensions dialogue box of either Stitch Designer, Standard Garment Styling or Original Pattern Drafting.

By following this method you will be designing in the correct proportions and will not be disappointed with your knit garments.

Final Tension Swatch

Once you have designed your stitch pattern using the roughly correct tensions, it will be necessary to knit another swatch in this pattern to determine the exact tension to be used for calculating the garment pattern. At this stage it is recommended that you use at least 100 lock passes for the swatch to ensure that a more accurate measurement is taken. As before:

- Pat rows per 10 cm = $(10 \times \text{passes knit}) / (\text{measurement} \times \text{passes-per-row})$

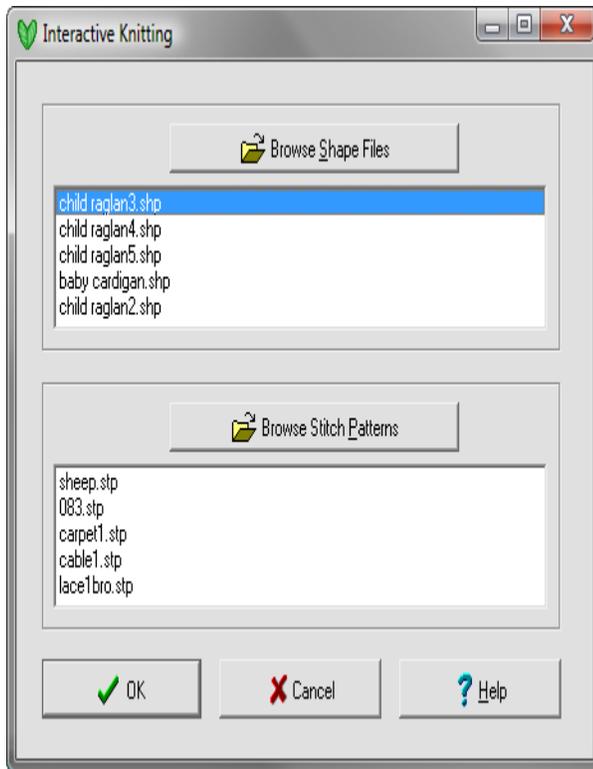
Simple swatch measuring method

This is a very simple and accurate method of knitting and measuring a tension swatch but one which requires many lock passes for multicolored knitting:

- Cast on 80 stitches and halve the width measurement on completion of the swatch.
- Multiply 60 by the number of passes per row and knit the resulting number of lock passes. For example 4 passes per row would require 240 lock passes.
- Measure the length and that is the exact measurement of the 60 pattern rows as shown on the computer.

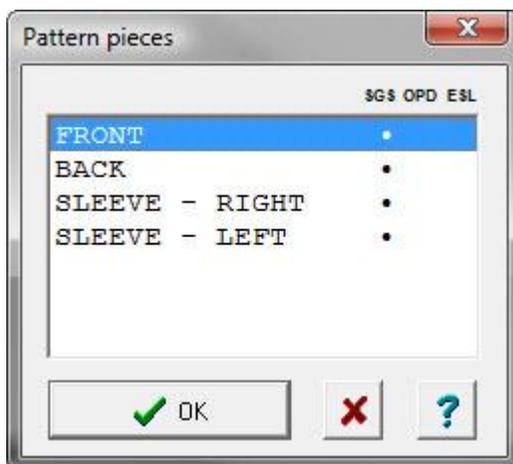
Knitting a Shape-Only Piece with the E6000Link 2 or E8000Link

1. Knit a tension swatch.
2. Create a Standard or Original shape file and save with the tension settings derived from the tension swatch.
3. Do NOT transfer a stitch pattern and do NOT turn on the console.
4. Switch to the Interactive Knitting section.
5. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not, then click on the Browse Shape Files button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

- Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



- If the piece has previously been integrated with a stitch pattern, you will then be offered the choice of knitting it with the stitch pattern or on its own: choose Shape-only, indicate in the dialogue whether the side facing you as you knit is to be the Right (Effects Face) or Wrong side, then click OK.
- Next, if you want to be warned when you need to carry out shaping instructions, you should select the type of alerts you want (if any) by clicking on the appropriate buttons on the tool bar and, if you are using any of the audible options, make sure that your speakers are on.
- Select Options/E6000 Technique and enter 999, and click the OK to confirm the single lock pass per row dialog.

This is not really a technique number but a code to tell DesignaKnit that you are knitting without the console and the shape will be calculated as a single lock pass per row.

10. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.
11. Set the CableLink for Interactive Knitting:
 - E6000Link 2 Serial, E6000Link 2 Serial + Converter, E8000Link Serial and E8000Link Serial + Converter: Turn the KnitLink switch to the red spot, ready for interactive knitting.
 - E6000Link USB: Disconnect the downloading part of the cable from the console and reconnect the console to the knitting machine
12.  Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window and in the in the Progress window.
13. Click the OK button on the Prepare to Synchronize Carriage dialogue. This will automatically turn on the Go button.
14. On the knitting machine carriage, set the carriage for plain knitting (or if knitting a built-in or manually selected pattern set the locks as required for the stitch type you are knitting) and start knitting, following any shaping instructions shown in the Yarns or Countdown window.
15. To knit the next piece choose Select Piece from the Shape File menu and repeat from step 6.

Knitting an Integrated Shape/Stitch Pattern with the BrotherLink 1/3/5

First you need to have integrated your shape file piece(s) with a stitch pattern, then download it to the knitting machine.

Whilst you can select the knitting machine you will be using from within Interactive Knitting, if you do this from Stitch Designer or one of the shaping sections, DesignaKnit will not prevent you from going forward if the pattern is incompatible with the currently selected machine.

Integrate using Original Pattern Drafting.

New to DesignaKnit 8 is the ability to integrate the stitch pattern with the shape in Original Pattern Drafting. This is faster than integrating in Stitch Designer, but does not allow you the ability to edit the stitch pattern within the shape - so if you want to check or make alterations to the stitch pattern itself, you must do this from Stitch Designer.

1. Switch to Original Pattern Drafting. If the shape is not already open, open it using File/Thumbnails or File/Open or, if the file is one of the five most recently used file names on the File menu, just click on the name to open it.
2. Click on the piece that you want to integrate so that it becomes the active piece. If the stitch pattern is not already visible, select View/Stitch Pattern or View/Different Stitch Pattern.

3. In the middle of the active piece there is now a tag with 4 arrows. Click the left mouse button down on this tag and drag to move the stitch pattern across the garment piece. Release the mouse button when the registration is correct.
4. Save the integration by selecting File / Save.
5. Go Stitch Designer to download the stitch pattern, then switch to Interactive Knitting.

Integrate using Stitch Designer

1. Switch to the Stitch Designer section. Open the Stitch pattern using File/Thumbnails or File/Open, or if the file is one of the five most recently used file names on the File menu, just click to open it.
2. Click on the View Piece button (or select Shapes/View Piece): if the shape file is not already open, you will be shown the Shapes Thumbnails browser first, then you can choose the piece to integrate.
3. Position the piece(s) on the stitch pattern using the Move Piece tool.
4. Select Shapes/Integrate and tick the check box next to the piece or pieces to be integrated with the current pattern and click OK.
5. Now save the integration information by selecting Shapes/Save Shape - or Save Shape As if you want to save this as a new shape file.
6. If integrating caused the pattern to display a greater or lesser number of repeats, when you leave Stitch Designer you will be asked if you want to save the stitch pattern with the current number of repeats. If you prefer to keep the original version, you can opt not to do this - the integration information will not be affected and if you view the pieces again on this stitch pattern, the number of repeats will be adjusted automatically to accommodate them. To save the stitch pattern before leaving the section, click on the Save button or choose File/Save - or Save As to save as a new pattern.
7. Next, you need to download the pattern to the knitting machine, then transfer to Interactive Knitting.

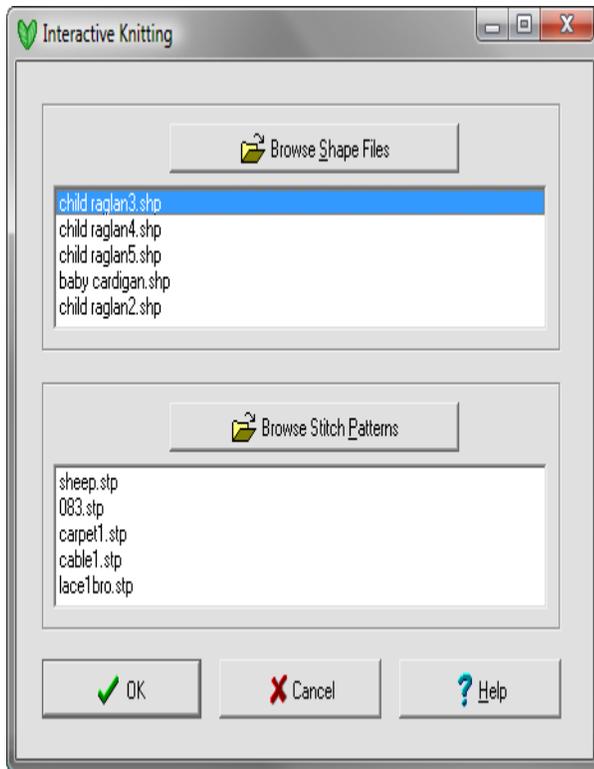
Download the Integrated Stitch Pattern

Full instructions for integrating and downloading are in the Stitch Designer Help, but briefly:

1. After integrating the shape file with a stitch pattern or patterns and saving it, select Transfer/Integrated Download.
2. Select the piece or pieces you want to download.
3. Follow the on-screen instructions to complete the download process.
4. Go to Interactive Knitting.

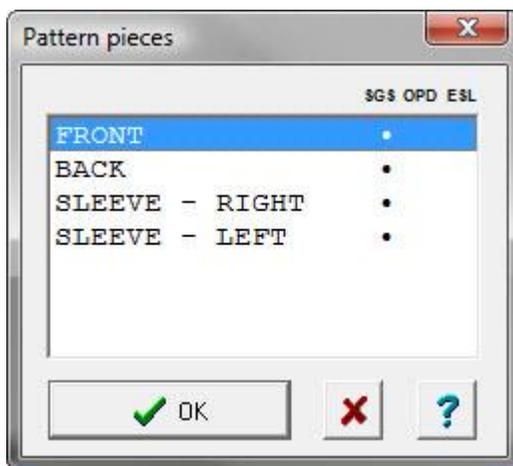
Knit the piece interactively

1. Switch to the Interactive Knitting section.
2. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not, then click on the Browse Shape Files button, which will open the Thumbnails browser.

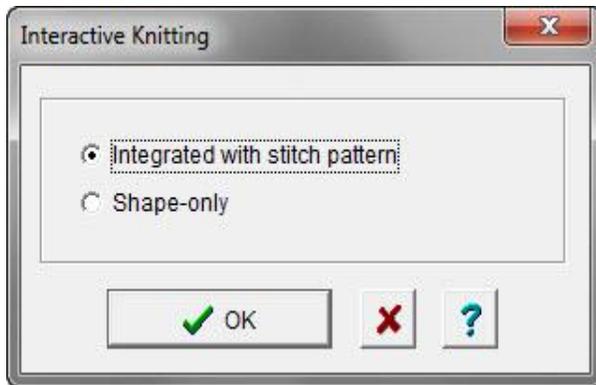


If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

3. Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



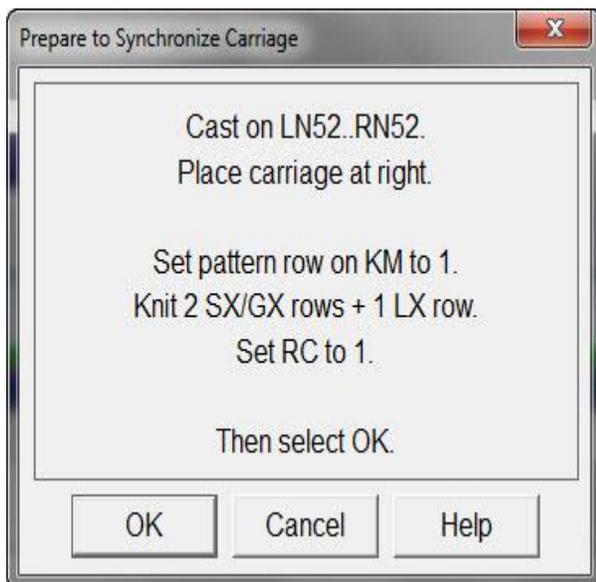
4. In the next dialogue, confirm that you want to knit the piece integrated with a stitch pattern:



5. Next, if you want to be warned when you need to carry out shaping instructions, change yarns or carriage settings, you should select the type of alerts you want (if any) by clicking on the appropriate buttons on the tool bar and, if you are using any of the audible options, make sure that your speakers are on.
6. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.



7. Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window: this will be at the opposite side to the position shown in the Progress window.
8. The stitch pattern is controlled from the machine's console, so you now need to program this to knit the downloaded pattern, following DesignaKnit's instructions:



9. Continue programming the console, entering the left and right needles as instructed by DesignaKnit, and then advance the program to Stitch Pattern A (or whichever pattern you are going to knit).
10. Set the CableLink for Interactive Knitting:

- E6000Link 2 Serial, E6000Link 2 Serial + Converter, E8000Link Serial and E8000Link Serial + Converter: Turn the KnitLink switch to the red spot, ready for interactive knitting.
 - E6000Link USB: Disconnect the downloading part of the cable from the console and reconnect the console to the knitting machine
11. Cast on the number of stitches indicated and work the SX/GX rows to arrange pusher selection, ending with the locks on the side instructed in the Prepare to Synchronize Carriage dialogue.

Please note that for Technique 179 on the E6000, a single LX row must be worked after the SX.GX rows, placing the locks on the left side of the needle beds

12. Click the OK button on the Prepare to Synchronize Carriage dialogue.
13. On the knitting machine carriage, set the carriage buttons as required for the stitch type you are knitting.... and start knitting, following any yarn changes or shaping instructions and carriage settings shown in the Yarns or Countdown window.
14. To knit the next piece choose Select Piece from the Shape File menu and repeat from step 3.

Knitting Neckline Shaping with the E6000Link 2 or E8000Link

Necklines may be shaped by holding or by decreasing (except for integrated Jacquard patterns which must be shaped by cut and sew or interactively knit as Shaping Only using the stitch pattern from the console).

The DesignaKnit instructions will tell you to work the center shaping and put the remaining needles on one side into hold. You must still tell the knitting machine that you wish to return to this row later so make a note of the pattern row shown in the console's display. In the case of a round neck, look at the needle bed display to see which center stitches should be either cast off, or held with the needles for the second side.

1. On completion of the first side, the green Go button is automatically deactivated.
2. Cast off the last stitches or remove all held shoulder stitches with waste knitting.
3. Click the amber Ready button to return the on-screen instructions to the start of the neck shaping and place the locks on the side instructed in the Prepare to Synchronize Carriage dialogue.
4. Return the stitches into the needle hooks.
5. Return the pattern in the console's memory to the correct row as follows:

Console Display	Action
CAR	
l.nd -number	ENT
r.nd number	ENT
Flashing RC number	Enter the row to which you wish to advance or return
Return number	This is to confirm the number of rows you wish to return - press ENT
WAIT	Wait while the console rewinds
st.patt A	ENT
....SX	Set front lock to SX and ENT
~~~~GX	Set back lock to GX and ENT
r.empty	Empty pass to set the pushers for the next row
check sts	Check that all the needles and pushers match the last row

6. Continue with remaining console programming as normal and check the row number on the console matches the RC number in DesignaKnit
7. Click the OK button to continue knitting the second side.

### Sleeve Seam Shaping

DesignaKnit Ready instructions tell you to cast on the number of stitches at the bottom of the sleeve. To avoid having to re-program the left and right end needles in the console every time an increase is encountered they can be set 5 or 10 stitches more than indicated, provided you ensure the locks pass the programmed needles on every row.

### Recommence knitting after a break

When the green Go button is active, a screen saver will not operate. If the knitting has to be left for a short period you may wish to click the Stop button so that the screen saver will activate. To return to the knitting click the Green Go button and continue.

### Unraveling rows

When unraveling several rows of knitting it is necessary to select either Go to RC from the Go menu, click on the swatch at the row to which you wish to return, or press the down arrow key once for each row unraveled. Any of these actions will cancel the Go button.

When the knitting is unraveled as far as required, set the pattern row on the knitting machine and click the Amber Ready button on DesignaKnit. Return all needles to normal working position then follow the console instructions to re-set the pushers for the next row.

Click the OK button and continue knitting.

## ScreenLink For Non-Electronic Machines

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This CableLink is for primarily for machines which either do not have an electronic patterning device, such as punch card or manually operated machines, or which cannot be programmed directly from DesignaKnit. It is essentially the same as the magnetic link section of other CableLinks, so if you already have one of those it can also be used for non-electronic machines.

The link enables DesignaKnit's Interactive Knitting section to respond to each pass of the carriage thereby synchronizing the shaping, yarn changing and carriage setting instructions with your knitting progress.

### Knitting a swatch (stitch pattern only or Cut and Sew piece) with the ScreenLink

It is important to have the correct knitting machine, or knitting machine type selected, even though you are not actually downloading the pattern into the knitting machine. This is so that DesignaKnit can, where necessary, give you an accurate punch card or mylar sheet template and can also differentiate between machines which pre-select the needles and those which do not.

Whilst you can select the knitting machine you will be using from within Interactive Knitting, if you do this from Stitch Designer or one of the shaping sections, DesignaKnit will not prevent you from going forward if the pattern is incompatible with the currently selected machine.

1. If you have not already done so, create a punch card or mylar sheet of the pattern you will be knitting from the template created in Stitch Designer (File/Print /Stitch pat template). If the pattern is Jacquard or lace, the pattern you reproduce will include all the necessary separations of colors/carriage passes.

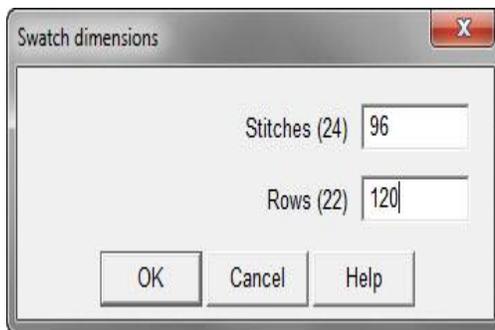
Cut and Sew pieces are stitch patterns knit as a single piece so that the shape can then be cut out and overlocked along the raw edges. The limitations of a punch card or mylar sheet mean that it is not possible to set up a whole garment piece for Cut and Sew by marking the outline in the pattern. You can, however, knit a swatch to the dimensions of the whole piece and then use a paper pattern with the outline, either printed from one of the shape drafting sections of DesignaKnit, or a commercial pattern, for cutting the piece.

2. On entering Interactive Knitting, if the pattern you want is listed on the opening dialogue, you can select it and click OK; if not, then click on the Browse Stitch Patterns button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Stitch Pattern File menu and choose either Thumbnails or Open Stitch Pattern File for the normal Windows file opening dialogue.

3. The Swatch Dimensions dialogue then opens so that you can enter the size of the piece you are going to knit, whether this is a sample tension swatch or the entire pattern. The figures given in brackets show the size of a single pattern repeat of the saved pattern. You can decide whether to knit a partial pattern, a full repeat or a number of repeats, but remember that DesignaKnit will center the pattern on the needle bed.



When you have set the number of stitches and rows, click OK.

4. Next, if you want to be warned about color or technique changes, you should select the type of alerts you want (if any) by pressing the appropriate buttons and, if you are using any of the audible options, make sure that your speakers are on.
5. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on

the Start of Section button  to return to the first row.

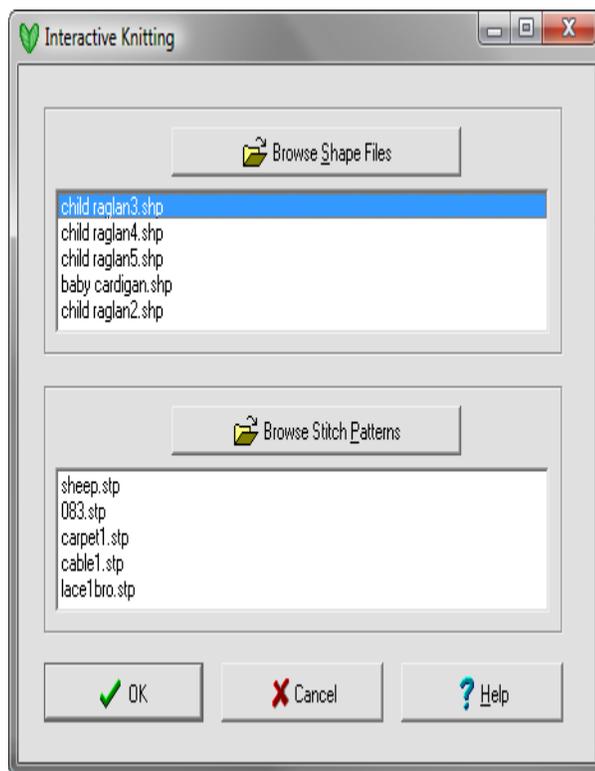
6. Insert the punch card or mylar sheet and lock onto row 1, or otherwise program the knitting machine.



7. Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window: this will be at the opposite side to the position shown in the Progress window if your machine requires the needles to be pre-selected, and on the same side if pre-selection is not required.
8. Set the machine's carriage to engage with the punch card, mylar sheet or other patterning device, and, if required, knit the pre-selection row.
9. Click the OK button on the Prepare to Synchronize Carriage dialogue.
10. On the knitting machine carriage, press the technique button(s) required for the stitch type you are knitting and knit the swatch, following any color change or carriage setting instructions shown in the Yarns or Countdown windows respectively.

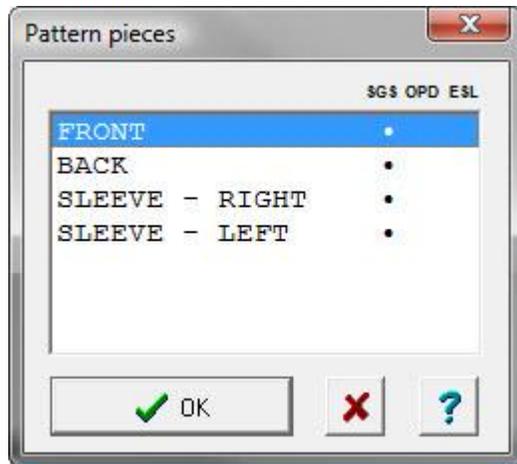
### Knitting a Shape-Only Piece in Plain Knitting or with a built-in pattern with the ScreenLink

1. Switch to the Interactive Knitting section.
2. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not, then click on the Browse Shape Files button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

3. Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



4. If the piece has previously been integrated with a stitch pattern, you will then be offered the choice of knitting it with the stitch pattern or on its own: choose Shape-only, indicate in the dialogue whether the side facing you as you knit is to be the Right (Effects Face) or Wrong side, then click OK.
5. Next, if you want to be warned when you need to carry out shaping instructions, you should select the type of alerts you want (if any) by clicking on the appropriate buttons on the tool bar and, if you are using any of the audible options, make sure that your speakers are on.
6. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.



7. Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window which will match the position shown in the Progress window.
8. Click the OK button on the Prepare to Synchronize Carriage dialogue.
9. On the knitting machine carriage, set the carriage for plain knitting and start knitting, following any shaping instructions shown in the Yarns or Countdown window.
10. To knit the next piece, choose Select Piece from the Shape File menu and follow the instructions from step 4.

### Knitting an Integrated Shape/Stitch Pattern with the ScreenLink

First you need to have integrated your shape file piece(s) with a stitch pattern, then prepare your punch card or patterning device to knit the integrated pattern. DesignaKnit will shuffle the pattern, if necessary, so that the piece is centered on the needle bed, not the stitch pattern.

Whilst you can select the knitting machine you will be using from within Interactive Knitting, if you do this from Stitch Designer or one of the shaping sections, DesignaKnit will not prevent you from going forward if the pattern is incompatible with the currently selected machine.

### Integrate using Original Pattern Drafting.

New to DesignaKnit 8 is the ability to integrate the stitch pattern with the shape in Original Pattern Drafting. This is faster than integrating in Stitch Designer, but does not allow you

the ability to edit the stitch pattern within the shape - so if you want to check or make alterations to the stitch pattern itself, you must do this from Stitch Designer.

1. Switch to Original Pattern Drafting. If the shape is not already open, open it using File/Thumbnails or File/Open or, if the file is one of the five most recently used file names on the File menu, just click on the name to open it.
2. Click on the piece that you want to integrate so that it becomes the active piece. If the stitch pattern is not already visible, select View/Stitch Pattern or View/Different Stitch Pattern.
3. In the middle of the active piece there is now a tag with 4 arrows. Click the left mouse button down on this tag and drag to move the stitch pattern across the garment piece. Release the mouse button when the registration is correct.
4. Save the integration by selecting File / Save.

### Integrate using Stitch Designer

1. Switch to the Stitch Designer section. Open the Stitch pattern using File/Thumbnails or File/Open, or if the file is one of the five most recently used file names on the File menu, just click to open it.
2. Click on the View Piece button (or select Shapes/View Piece): if the shape file is not already open, you will be shown the Shapes Thumbnails browser first, then you can choose the piece to integrate.
3. Position the piece(s) on the stitch pattern using the Move Piece tool.
4. Select Shapes/Integrate and tick the check box next to the piece or pieces to be integrated with the current pattern and click OK.
5. Now save the integration information by selecting Shapes/Save Shape - or Save Shape As if you want to save this as a new shape file.
6. If integrating caused the pattern to display a greater or lesser number of repeats, when you leave Stitch Designer you will be asked if you want to save the stitch pattern with the current number of repeats. If you prefer to keep the original version, you can opt not to do this - the integration information will not be affected and if you view the pieces again on this stitch pattern, the number of repeats will be adjusted automatically to accommodate them. To save the stitch pattern before leaving the section, click on the Save button or choose File/Save - or Save As to save as a new pattern.

### Prepare the pattern for the machine

#### Create a Punch Card or Mylar Sheet

1. From the Stitch Designer section, select File/Print/Stitch Template (or click on the Print button and select the Stitch Template option) to print out a punch card or mylar sheet template.
2. Punch a card or mark a mylar sheet from the template. Insert the finished punch card or mylar sheet and lock on row 1.
3. Switch to Interactive Knitting.

#### Other types of pattern device (e.g. PPD, PE1, PC10 etc

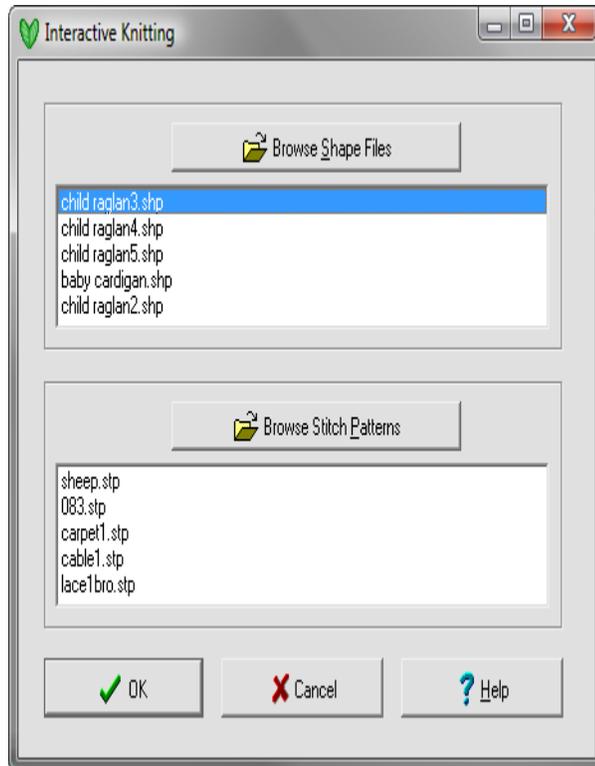
Full instructions for integrating and downloading are in the Stitch Designer Help, but briefly:

1. After integrating the shape file with a stitch pattern or patterns and saving it, select Transfer/Integrated Download.

2. Select the piece or pieces you want to download.
3. Follow the on-screen instructions to complete the download process.
4. Go to Interactive Knitting.

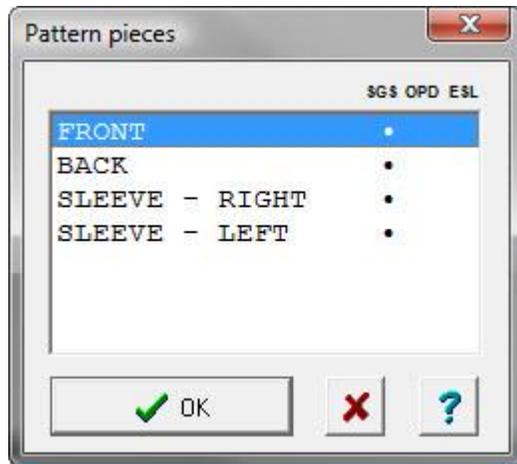
### Knit the piece interactively

1. Switch to the Interactive Knitting section.
2. On entering Interactive Knitting, if the shape you want is listed on the opening dialogue, you can select it and click OK (or double-click the shape file name); if not, then click on the Browse Shape Files button, which will open the Thumbnails browser.



If you are already working in Interactive Knitting, click on the Shape File menu and choose either Thumbnails or Open Shape File for the normal Windows file opening dialogue.

3. Next, choose the piece you want to knit from the Pattern pieces dialogue, and click OK.



4. In the next dialogue, confirm that you want to knit the piece integrated with a stitch pattern:



5. Next, if you want to be warned when you need to carry out shaping instructions, change yarns or carriage settings, you should select the type of alerts you want (if any) by clicking on the appropriate buttons on the tool bar and, if you are using any of the audible options, make sure that your speakers are on.
6. Note that if you have knit this pattern recently, or previewed the rows manually, the carriage may be shown at the place where it was left, so if you want to start at the beginning, click on the Start of Section button  to return to the first row.



7. Now, click the amber Ready button. Bring the needles indicated into working position and cast on either with waste yarn or, if this is to have a welt, work this first and finish with the carriage at the side of the needle bed shown in the instruction window: this will be at the opposite side to the position shown in the Progress window if your machine requires the needles to be pre-selected, and on the same side if pre-selection is not required.
8. Set the machine's carriage to engage with the punch card, mylar sheet or other patterning device, and, if required, knit the pre-selection row.
9. Click the OK button on the Prepare to Synchronize Carriage dialogue.
10. On the knitting machine carriage, set the carriage buttons as required for the stitch type you are knitting... and start knitting, following any yarn changes or shaping instructions and carriage settings shown in the Yarns or Countdown window.

## Knitting Neckline Shaping with the ScreenLink

Necklines may be shaped by holding or by decreasing. Whichever method you choose, DesignaKnit will advise when to divide for the neckline. The instructions will tell you to work the center shaping and put the remaining needles on one side into hold. You must still tell the knitting machine that you wish to return to this row later by pressing the M key if this facility is available on your machine. In the case of a round neck, look at the needle bed display to see which center stitches should be either cast off or held with the needles for the second side - although of course you may prefer to remove these onto waste yarn.

1. On completion of the first side, the green Go button is automatically deactivated.
2. Cast off the last stitches or remove all held shoulder stitches with waste knitting.
3. Click the amber Ready button to return the on-screen instructions to the start of the neck shaping and place the carriage on the side instructed in the Prepare to Synchronize Carriage dialogue.
4. Return the stitches into the needle hooks, placing the needles in normal working position.
5. Return the punch card or pattern device to the correct row and, if instructed, work a pre-selection row (don't forget to set the carriage to slip to do this so that you don't inadvertently drop all the stitches).
6. Click the OK button to continue knitting the second side.

### Recommence knitting after a break

When the green Go button is on, this will prevent the screen saver from starting. If you leave your knitting for a while and you want the screen saver to activate, click on the red Stop button. When you want to continue, click on the Go button. You will then be able to continue from where you left off.

### Recommence knitting after unraveling rows

If you need to unravel any of the knitting, the first thing to do is turn off the Go button by clicking on the red Stop button straight away or click on the swatch or piece at the row to which you wish to return, or press the down arrow key once for each row unraveled: any of these actions will cancel the Go button.

When the knitting is unraveled as far as required, rewind the punch card or re-program the mylar sheet/pattern device to the correct row and click the amber Ready button on DesignaKnit. Return all needles to normal working position, set the carriage to Slip until the pre-select pass has been done, then reset to the correct technique, click the OK button and continue knitting.

## Credits

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<b>System design</b>	Matthew Bragg & Cilla Mann
<b>Software design &amp; programming</b>	Matthew Bragg & John Hartley
<b>SilverLink 4 design &amp; firmware</b>	Jos Timmermans
<b>SilverLink 5 design &amp; firmware</b>	Justin Bernard / Davlec Ltd.
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<b>Manual and Help authors</b>	Karen Kuranda & Cilla Mann
<b>Tutorials</b>	Karen Kuranda
<b>KnitWriteDK TrueType font author</b>	Cilla Mann
<b>Roosmalen 1 TrueType font author</b>	Jacqueline Heijdemann / Knitdesign

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