



Strobile



## Jumper Strobile

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*The forms of nature will never cease to amaze. The most common cone fascinates with its symmetry and repetitive motifs arranged in a spiral; it seems that it was lathed by an outstanding engineer on a machine designed to lathe super-precise parts. Repeating the image of an ordinary cone is not an easy task. We must come up with relief and depth, repetitive motives and the appearance of a spiral, open up and close again.*

*The front, the back, and sleeves are worked separately from the lower edge to the underarms. The pieces then are joined, and the yoke is worked in the round. The yoke here consists of three levels. The lower yoke is shaped anatomically and is interrupted halfway, the middle one shapes the back neck of the jumper for convenience and comfort; the third level is designed as a simple round yoke, only here the ribbed pattern gradually shrinks itself, allowing you to narrow the yoke naturally. The yoke is finished up with a neckline band that enhances the effect of decreasing. In the area of armpits, it is recommended to skip the bobbles to avoid felting during friction.*

**Size:** XXS-XS (S-M, L-XL, XXL, XXXL)

**Bust circumference:** 80-88 (90-98, 100-108, 110-120, 122-132) cm

**Hip circumference:** 84-92 (94-102, 104-112, 114-124, 126-136) cm

**Finished dimensions (circumference at bust):** 94 (106, 117, 128, 140) cm

**Bust cup size:** A-C (A-C, A-C, D-E, D-E)

**Height:** 165-175 cm

**Intended ease at bust:** on average 8-15 cm. Sample shown on a model is size L-XL with 13 cm of positive ease.

**Gauge:** 21 sts and 34,5 rows in Strobile stitch pattern = 10x10 cm using US5 (3,75 mm) needles. If the gauge you've got differs from the given gauge, the measurements of pieces and the finished garment will be different from what should be in your size. If the pattern does not contain a suitable size, slightly changing the gauge, you can adjust the size.

**Difficulty level:** ●●●●●

**Yarn:** Filati BE.MI.VA Richard (on cone), 40% Baby alpaca, 30% wool, 30% acryl, 450 m/100 g, approx. 550 (600, 675, 750, 825) g in greyish brown color.

The jumper is knitted in 2 strands; final yardage is 225 m/100 g or 1235 (1350, 1500, 1680, 1850) m in total.

**Needles and additional tools:** straight knitting needles US4 (3,5 mm) and US5 (3,75 mm), circular needles US3 (3,25 mm), US4 (3,5 mm) and US5 (3,75 mm); blunt tapestry needle; additional circular needles for transferring sts; locking markers.

### Abbreviations

st/sts – stitch/stitches

k – knit

p – purl

ssk – slip slip knit

ssp – slip slip purl

k2tog – knit 2 stitches together

p2tog – purl 2 stitches together

RS – right side

WS – wrong side

CO – cast on

BO – bind off (bound off)

Rep – repeat

M – marker



## Stitch patterns and techniques

**St pattern Strobile.** *See charts on page 5.*

**Rib 1x2, flat knitting.** Row 1 (RS): selvage st, p1, \*k1, p2. Rep from \* to end. Row 2 (WS): selvage st, k1, \*p1, k2. Rep from \* to end.

**Rib 1x2, knitting in the round.** \*k1, p2. Rep from \* to end.

**Rib 1x1, knitting in the round.** \*k1, p1. Rep from \* to end.

**Reverse Stockinette St.** All RS rows – purl, all WS rows – knit.

**Alignment row** is used for flattering steps which were created while working on short rows. Pick up the wrap onto the left-hand needle, releasing the stitch which was wrapped and work them together. The wrap should always stay on WS.

**Purled selvage st (braid).** Slip the first st onto the right-hand needle at the beginning of each row. The last st of every RS row – purl; the last st of every WS row – knit. Transfer working yarn avoiding wrapping the first stitch.

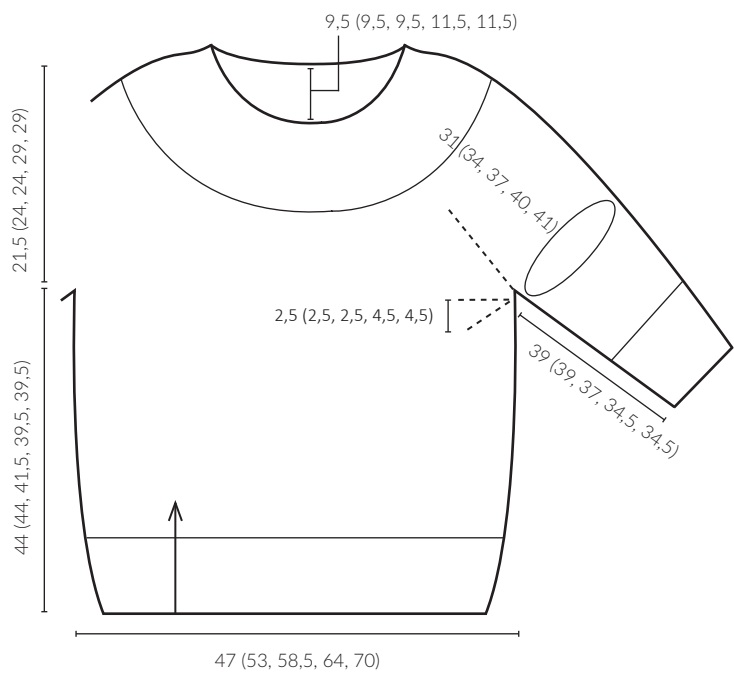
**3 Needle Join and Bind Off method.** Insert the right-hand needle into selvage st on both needles and work them together. There is one st on right-hand needle, as well as one st is joined and bound off. Insert the right-hand needle into the first st on both needles and work them together. Pull the st through the st on the right-hand needle. Rep until the required number of sts are joined and bound off.

### Notes

1. Measurements are given in a metric system. To convert into inches, divide by 2.54.
2. Read all the instructions carefully before beginning.
3. The first and the last sts along all details are purled selvage sts (braid), even if it's not mentioned further in the pattern.
4. While casting on and binding off, leave long enough yarn tails for seaming or finishing.
5. The instructions are for size XXS-XS, numbers in brackets are for sizes S-M, L-XL, XXL, and XXXL respectively. If there is only one number, it belongs to all sizes.
6. When counting rows, the cast-on and set-up rows are not taken into account.
7. When counting stitches, consider that one Pattern Rep is equal to 6 stitches, even if the number of stitches in the 5<sup>th</sup>, 6<sup>th</sup>, 13<sup>th</sup>, and 14<sup>th</sup> rows of the Pattern Rep increases to 8.
8. Work the back the last.
9. Length adjustment (body and/or sleeves) is only possible by the whole Pattern Rep (16 rows).







# Strobile st pattern charts

Chart No. 1

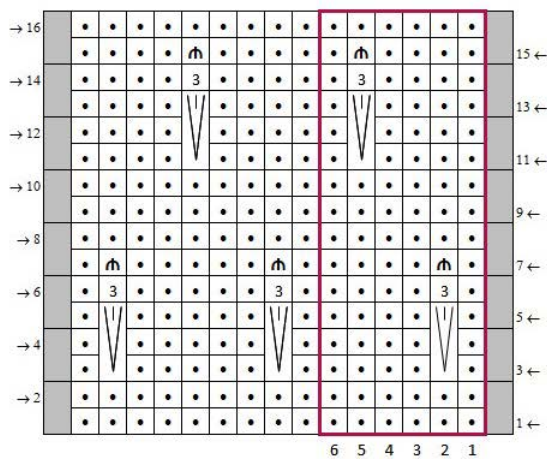
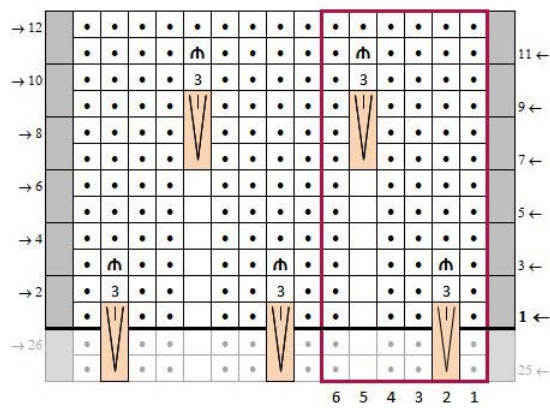


Chart No. 2



- 2 3 ←  
1 ←
- Row 1 and Row 2: purl on RS, knit on WS  
Row 3: knit 3 sts into 1 st (knit 1 st into stitch 2 rows below the next stitch on left-hand needle, knit 1 st, knit 1 st into the same stitch 2 rows below)
- 2 3 ←  
1 ←
- Row 1 and Row 2: knit on RS, purl on WS  
Row 3: knit 3 sts into 1 st (knit 1 st into stitch 2 rows below the next stitch on left-hand needle, knit 1 st, knit 1 st into the same stitch 2 rows below)
- 2 3 ←  
2 ←  
1 ←
- Round 1 and Round 2: purl on RS  
Round 3: knit 3 sts into 1 st (knit 1 st into stitch 2 rows below the next stitch on left-hand needle, knit 1 st, knit 1 st into the same stitch 2 rows below)
- 2 3 ←  
1 ←
- Row 1 and Row 2: purl on RS, knit on WS  
Row 3: purl 3 sts into 1 st (purl 1 st into stitch 2 rows below the next stitch on left-hand needle, purl 1 st, purl 1 st into the same stitch 2 rows below)
- h Center double decrease. Slip 2 sts to right-hand needle as if knitting them together, knit 1 st, pass two slipped sts over the st
- h Center double decrease on WS. Slip 2 sts to right-hand needle, place back the first st to left-hand needle, place back the second st. Purl 3 sts together.
- 3 purl 3 sts
- 3 knit 3 sts
- knit on RS, purl on WS
- knit on WS, purl on RS
- selvage st



Chart No. 3

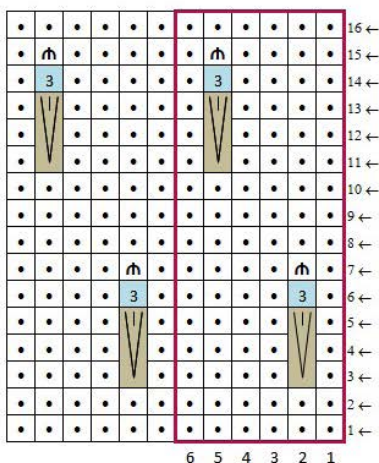


Chart No. 4

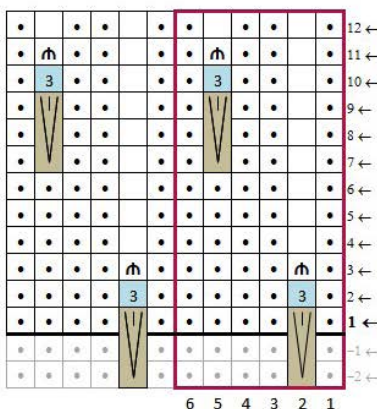
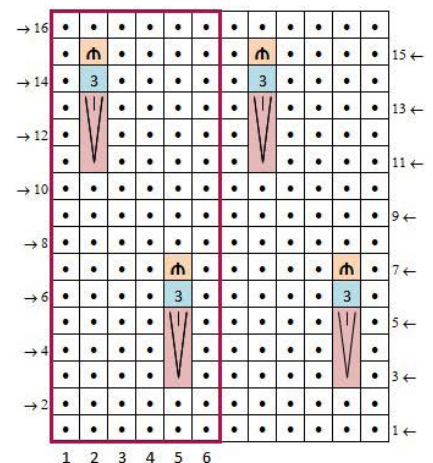


Chart No. 5





## Front

With US4 (3,5 mm) straight needles CO 69 (77, 85, 93, 101) sts using an Italian Cast On Method. In the next WS row work a set-up row for 1x2 rib: selvage st, k1, \*p1, knit 2 sts into 1 st (see *Step-by-step tutorial on the last page*). Rep from \* to last 3 sts, p1, k2. There are 101 (113, 125, 137, 149) sts on needles. In the next RS row begin to work in 1x2 rib. Work for 26 rows, end with a WS row. \*\* Switch to US5 (3,75 mm) needles. Work Row 1 of Chart **No. 2**, beginning with a selvage st and the 1<sup>st</sup> (1<sup>st</sup>, 4<sup>th</sup>, 1<sup>st</sup>, 1<sup>st</sup>) st of the Chart. Work for 12 rows, then follow Chart **No. 1**, beginning with a selvage st and the 1<sup>st</sup> (1<sup>st</sup>, 4<sup>th</sup>, 1<sup>st</sup>, 1<sup>st</sup>) st of the Chart. Work even following Chart **No. 1** for 88 (88, 80, 80, 80) rows in total, end with a WS row and the 8<sup>th</sup> (8<sup>th</sup>, 16<sup>th</sup>, 16<sup>th</sup>, 16<sup>th</sup>) row of the Pattern Rep.

### Side scattered bust darts

*From this point forward, and before joining the pieces to a yoke, skip bobbles, starting from the short rows turns towards the edges, working those stitches in Reverse Stockinette St (see the picture below).*

*For sizes XXS-XS, S-M, L-XL only:*

Work the next RS row to last 6 sts, wrap the next st and turn. Work a WS row to last 6 sts, wrap the next st and turn. Work the next RS and WS alignment rows, working over wrapped sts. Work even for 4 more rows.

Work the next RS row to last 9 sts, wrap the next st and turn. Work a WS row to last 9 sts, wrap the next st and turn. Work the next RS and WS alignment rows, working over wrapped sts. Work even for 4 more rows.



Work the next RS row to last 12 sts, wrap the next st and turn. Work a WS row to last 12 sts, wrap the next st and turn. Work the next RS and WS alignment rows, working over wrapped sts. Work even for 4 more rows.

Work the next RS row to last 15 sts, wrap the next st and turn. Work a WS row to last 15 sts, wrap the next st and turn. Work the next RS and WS alignment rows, working over wrapped sts.

*For sizes XXL, XXXL only:*

Work the next RS row to last 3 sts, wrap the next st and turn. Work a WS row to last 3 sts, wrap the next st and turn. Work the next RS row to last 6 sts, wrap the next st and turn. Work a WS row to last 6 sts, wrap the next st and turn. Work the next RS and WS alignment rows, working over wrapped sts. Work even for 2 more rows.

Work the next RS row to last 6 sts, wrap the next st and turn. Work a WS row to last 6 sts, wrap the next st and turn. Work the next RS row to last 9 sts, wrap the next st and turn. Work a WS row to last 9 sts, wrap the next st and turn. Work the next RS and WS alignment rows, working over wrapped sts. Work even for 2 more rows.

Work the next RS row to last 9 sts, wrap the next st and turn. Work a WS row to last 9 sts, wrap the next st and turn. Work the next RS row to last 12 sts, wrap the next st and turn. Work a WS row to last 12 sts, wrap the next st and turn. Work the next RS and WS alignment rows, working over wrapped sts. Work even for 2 more rows.

Work the next RS row to last 12 sts, wrap the next st and turn. Work a WS row to last 12 sts, wrap the next st and turn. Work the next RS row to last 15 sts, wrap the next st and turn. Work a WS row to last 15 sts, wrap the next st and turn. Work the next RS and WS alignment rows, working over wrapped sts.

*For all sizes:*

*The height of side scattered bust darts is equal to 8 8 (8, 8, 16, 16) additional rows.*

Continue to work even following Chart **No. 1** for 120 (120, 112, 112, 112) rows in total, end with a WS row and the 8<sup>th</sup> (8<sup>th</sup>, 16<sup>th</sup>, 16<sup>th</sup>, 16<sup>th</sup>) row of the Pattern Rep. Count rows in the front center taking into account 8 (8, 8, 16, 16) additional rows of bust darts. Transfer all sts to a spare circular needle. Break yarn leaving long enough tail for joining sts of an underarm.



## Sleeves (make 2)

With US4 (3,5 mm) straight needles CO 41 (45, 49, 53, 53) sts using an Italian Cast On Method. In the next WS row work a set-up row for 1x2 rib: selvage st, k1, \*p1, knit 2 sts into 1 st (see the Step-by-step tutorial on the last page). Rep from \* to last 3 sts, p1, k2. There are 59 (65, 71, 77, 77) sts on needles. In the next RS row begin to work in 1x2 rib. Work for 26 rows, end with a WS row.

\*\* Switch to US5 (3,75 mm) needles. Work Row 1 of Chart **No. 2**, beginning with a selvage st and the 4<sup>th</sup> (4<sup>th</sup>, 1<sup>st</sup>, 4<sup>th</sup>, 4<sup>th</sup>) st of the Chart. Work for 12 rows, then follow Chart **No. 1**, beginning with a selvage st and the 4<sup>th</sup> (4<sup>th</sup>, 1<sup>st</sup>, 4<sup>th</sup>, 4<sup>th</sup>) st of the Chart and in the same row work an **increase row for sleeve widening**.

**Increase row for sleeve widening:** selvage st, pick up a st, which is one row below the next st on the left-hand needle and purl, work row to last st, pick up a st, which is one row below the st you've just worked, and purl, p1. 2 sts increased. Work increased sts into the stitch pattern (read the note below).

*Make bobbles over increased sts only when they are formed no closer than 3-4 sts from the edge. Otherwise, work increased sts in Reverse Stockinette St.*

Rep an **increase row for sleeve widening** 3 (4, 5, 6, 7) more times every 24<sup>th</sup> (18<sup>th</sup>, 14<sup>th</sup>, 10<sup>th</sup>, 8<sup>th</sup>) row. There are 67 (75, 83, 91, 93) sts on needles. Continue to work even following Chart **No. 1** for 96 (96, 88, 80, 80) rows in total, end with a WS row and the 16<sup>th</sup> (16<sup>th</sup>, 8<sup>th</sup>, 16<sup>th</sup>, 16<sup>th</sup>) row of the Pattern Rep. While working the last 1-1,5 Pattern Reps, skip some of the edge bobbles in the underarm area as described and illustrated on page 6. Transfer all sts to a spare circular needle. Break yarn leaving long enough tail for joining sts of an underarm.

## Back

Work the same as for the front until \*\*. Switch to US5 (3,75 mm) needles. Work Row 1 of Chart **No. 2**, beginning with a selvage st and the 4<sup>th</sup> (4<sup>th</sup>, 1<sup>st</sup>, 4<sup>th</sup>, 4<sup>th</sup>) st of the Chart. Work for 12 rows, then follow Chart **No. 1**, beginning with a selvage st and the 4<sup>th</sup> (4<sup>th</sup>, 1<sup>st</sup>, 4<sup>th</sup>, 4<sup>th</sup>) st of the Chart. Work even following Chart **No. 1** for 112 (112, 104, 96, 96) rows in total, end with a WS row and the 16<sup>th</sup> (16<sup>th</sup>, 8<sup>th</sup>, 16<sup>th</sup>, 16<sup>th</sup>) row of the Pattern Rep. While working the last 1,5-2 Pattern Reps, skip some of the edge bobbles in the underarm area as described and illustrated on page 6. Transfer all sts to a spare circular needle. Do not break the yarn (further – working yarn).







## Joining pieces to a yoke

Switch to US5 (3,75 mm) circular needle (further – main needle). Turn the right sleeve with a WS up. Put the back piece under the right sleeve with an RS up. With working yarn join and bind off 6 (7, 8, 9, 10) sts using a 3 Needle Join and Bind Off method. 6 (7, 8, 9, 10) sts of an underarm are joined and bound off.

The last st of an underarm place onto the main needle and mark it with a locking marker **M1**. Work the next row of the back with working yarn and main needle to last 6 (7, 8, 9, 10) sts, slip the next 6 (7, 8, 9, 10) sts to the right-hand needle (no actual stitching involved). Leave the working yarn temporarily.

Turn the work with a WS up. Put the left sleeve under the back with an RS up. With the yarn tail left when finishing the left sleeve, join and bind off 6 (7, 8, 9, 10) sts using a 3 Needle Join and Bind Off method. 6 (7, 8, 9, 10) sts of an underarm are joined and bound off. The last st of an underarm place onto the main needle and mark it with a locking marker **M2**. Work the next row of the left sleeve with working yarn and main needle to last 10 (11, 12, 13, 15) sts, slip the next 10 (11, 12, 13, 15) sts to the right-hand needle (no actual stitching involved). Leave the working yarn temporarily.

Turn the work with a WS up. Put the front under the left sleeve with an RS up. With the yarn tail left when finishing the front, join and bind off 10 (11, 12, 13, 15) sts using a 3 Needle Join and Bind Off method. 10 (11, 12, 13, 15) sts of an underarm are joined and bound off. The last st of an underarm place onto the main needle and mark it with a locking marker **M3**. Work the next row of the front with working yarn and main needle to last 10 (11, 12, 13, 15) sts, slip the next 10 (11, 12, 13, 15) sts to the right-hand needle (no actual stitching involved). Leave the working yarn temporarily.

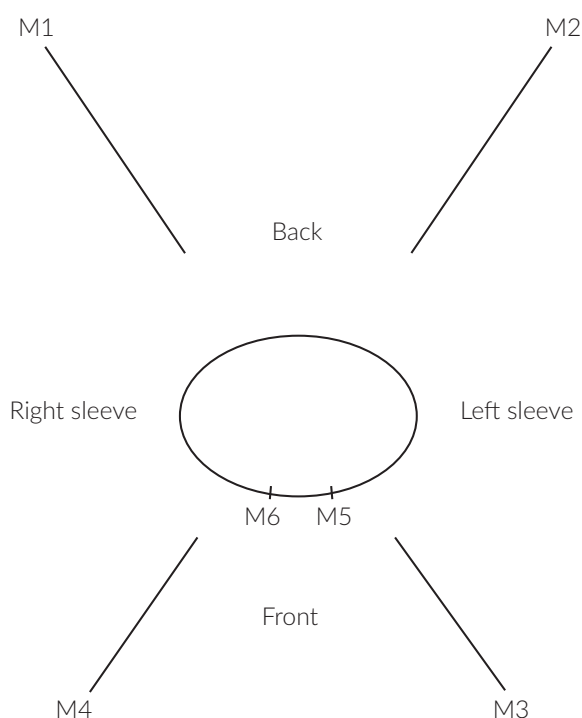
Turn the work with a WS up. Put the right sleeve under the front with an RS up. With the yarn tail left when finishing the right sleeve, join and bind off 10 (11, 12, 13, 15) sts using a 3 Needle Join and Bind Off method. 10 (11, 12, 13, 15) sts of an underarm are joined and bound off. The last st of an underarm place onto the main needle and mark it with a locking marker **M4**. Work the next row of the right sleeve with working yarn and main needle to the end of the round.

The joining round is the first round of the yoke. There are 276 (308, 340, 372, 388) sts on main needle. Work marked sts in Reverse Stockinette st further.



*While working on the yoke and back neck, skip bobbles when there are no available sts to complete them, working those sts in Reverse Stockinette St. If there are available sts and rows to complete a bobble (even close or next to raglan decreases, also over short rows) bobbles should have been made, thus trying to avoid empty (unfilled) areas.*

## Location of markers



## Lower yoke

One round of the yoke is completed. Continue to work yoke in rounds and follow Chart **No. 3**. In the next round, work **decreases for raglan lines**.

**Decreases for raglan lines:** work the M1 st, p2tog, work to 2 sts before M2 st, ssp, work the M2 st, p2tog, work to 2 sts before M3 st, ssp, work the M3 st, p2tog, work to 2 sts before M4st, ssp, work the M4 st, p2tog, work to 2 sts before M1, ssp. 8 sts decreased.

Rep **decreases for raglan lines** 2 more times. 4 rounds of the yoke are completed. There are 252 (284, 316, 348, 364) sts on needle.







From this point forward, decreases for raglan lines are different on individual parts of the yoke. Continue to work on decreases, as established further:

- on the back after M1 st and before M2 st every 2<sup>nd</sup> (–, –, every, every) round 2 (0, 0, 3, 3) times, every 3<sup>rd</sup> (2<sup>nd</sup>, 2<sup>nd</sup>, alternating every 2<sup>nd</sup> and every 3<sup>rd</sup>, every 2<sup>nd</sup>) round 12 (24, 24, 14, 30) times, – (–, –, every 2<sup>nd</sup>, –) round 0 (0, 0, 12, 0) times;
- on the front after M3 st and before M4 st every round 2 (2, 3, 3, 6) times, then every 2<sup>nd</sup> (alternating every and every 2<sup>nd</sup>, alternating every and every 2<sup>nd</sup>, alternating every and every 2<sup>nd</sup>, alternating every and every 2<sup>nd</sup>) round 8 (14, 15, 20, 18) times;
- on the back side of both sleeves after M2 sts and before M1 sts every 2<sup>nd</sup> round one time, then every 12<sup>th</sup> (16<sup>th</sup>, 12<sup>th</sup>, 10<sup>th</sup>, 7<sup>th</sup>) round 2 (2, 3, 6, 8) times;
- on the front side of both sleeves before M3 st and after M4 st every 2<sup>nd</sup> round one time, then every 8<sup>th</sup> (11<sup>th</sup>, 8<sup>th</sup>, 5<sup>th</sup>, alternating every 4<sup>th</sup> and every 5<sup>th</sup>) round 2 (2, 3, 6, 7) times.

*The last (upper) decreases for raglan lines may be finished in the alignment round as well as in the following round.*

## Back neck shaping

Work for a total of 10 (18, 18, 26, 26) yoke rounds, end before M1 st. Place locking markers **M5** (for the left side of the front neck) and **M6** (for the right side of the front neck) marking 15 (15, 19, 23, 23) center front sts. Continuing on decreases as established earlier, in the next 11<sup>th</sup> (19<sup>th</sup>, 19<sup>th</sup>, 27<sup>th</sup>, 27<sup>th</sup>) round work to 1 st before **M5**, wrap the next st and turn. From this point, the back neck is shaped with short rows. Decreases for raglan lines now are worked on WS also. Work decreases on WS as k2tog and ssk respectively.

*Starting with a current WS row, in the section between M5 and M1, knitting is ahead of the rest of the section between M1 and M6 by one row. In this section (between M1 and M6) read the stitch pattern from WS, according to Chart No. 5, starting with the 3<sup>rd</sup> row of the Chart.*





In the next WS row work to 1 st before **M6**, wrap the next st and turn. \*In the next RS row work to 4 (4, 4, 3, 3) sts before the wrapped st, wrap the next st and turn. Work the next WS row to 4 (4, 4, 3, 3) sts before the wrapped st, wrap the next st and turn. Rep from \* 14 (14, 14, 18, 18) more times. The height of shaped back neck is 32 (32, 32, 40, 40) rows or 2 (2, 2, 2,5, 2,5) Pattern Reps. End row before M1 st.

Continue to work in rounds. Work an alignment round, working over wrapped sts and one more round, finishing last decreases for raglan lines. Work wrapped sts on the right front neck as follows: release the wrap, place it behind the wrapped st and purl them together. End round before M1 st.

Remove all markers except **M1**. There are 192 (192, 216, 216, 216) sts on needle.

## Upper yoke

Work Round 1 of Chart **No. 4** and begin with a st, starting from which the Strobile st pattern on the back and front would be continued (*see the picture below*). Work for 2 rounds and switch to US4 (3,5 mm) circular needle. Work following Chart **No. 4** for 12 rounds in total, then continue in 1x2 rib for 18 (16, 18, 16, 18) more rounds. End round before M1 st.

## Neckline band

Switch to US3 (3,25 mm) circular needle. Work the next round in 1x1 rib, working p2tog over every 2 purl sts. There are 128 (128, 144, 144, 144) sts on needle. Work even for 10 more rounds. End round before M1 st, remove marker **M1**. Break yarn leaving long enough yarn tail for a Tubular Bind Off.

## Finishing

With a tapestry needle, BO neckline sts using a Tubular Bind Off for 1x1 ribbing (no set-up rows are needed).

With yarn tails sew side and sleeve seams using a mattress stitch.

Insert yarn tail left when joining underarms into a tapestry needle, tighten the last underarm st and stitch around on WS, inserting the needle into back legs of adjacent stitches. Fasten and break the yarn. Rep for the remaining underarm sts.

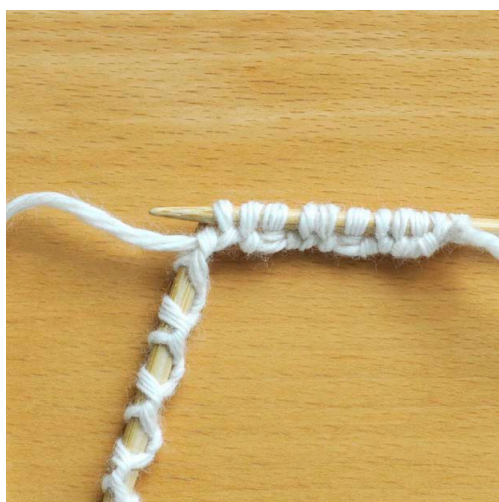
Weave in all yarn ends. Wash the garment, roll it between two thick bath towels and firmly press towel roll to squeeze out excess water. Take the garment out, lay it out flat, block to measurements. Stretch all ribbed hems lengthwise. Allow garment to dry completely.

*Thank you for knitting!*





## Italian Cast On Method for the 1x2 rib



1. Cast on the specified number of sts using an Italian Cast On method. Purl the purl st of a CO row.
2. \*Knit the knit stitch. Then find a thread which lies between the stitch you've just knit and below the next purl stitch.
3. Pick it up with the right-hand needle and place it on the left-hand needle.
4. Knit the stitch you've just placed. Now you have two knit sts in a row. Purl the next stitch and rep from \*.



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