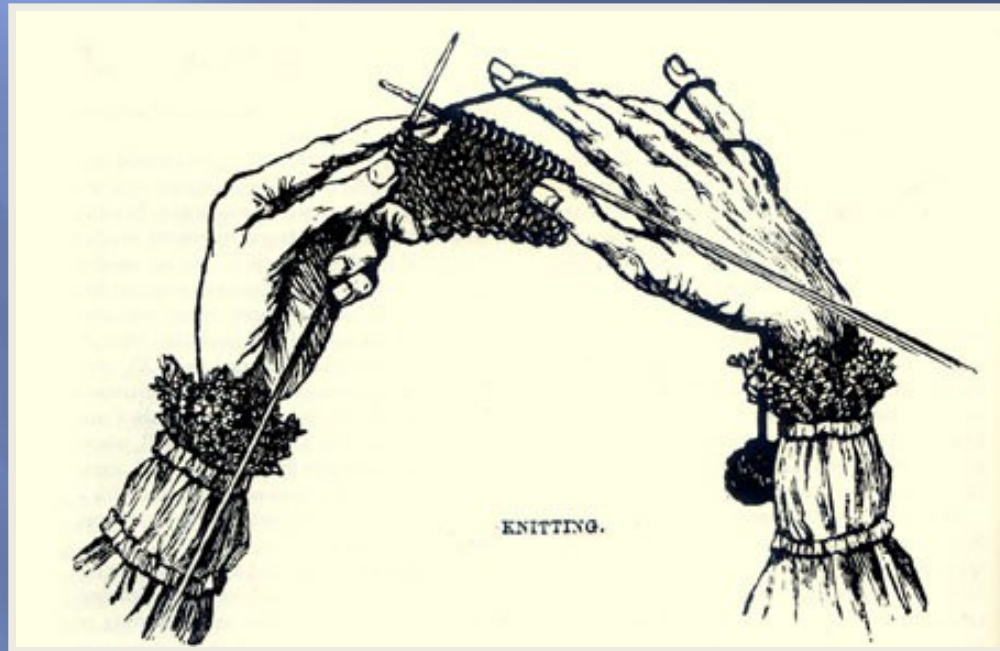


History of knitting: Hosiery



History of knitting

- the oldest form of knitting is crossed knitting
- stitches are rotated a half turn instead of aligning vertically
- method was highly developed by the Nazca culture in Peru (100 B.C.- A.D. 700)
- najstarejša oblika pletenja je križno pletenje
- šivi so zarotirani za pol obrata namesto poravnani navpično
- postopek visoko razvit v Nazca kulturi v Perui (100 let p. n. š. - 700 let n. š.)

History of knitting (cont...)

- knitted socks found in Egyptian tombs (3rd and 6th century A.D.)
- socks were the first items to be knitted
- in early 14th century we have the first references to true knitting in Europe
- pletene nogavice najdene v egipčanskih grobnicah (3. in 6. stoletje n. š.)
- nogavice so bile prvi pleteni izdelki
- z zgodnjem 14. stoletju zasledimo prve znake pravega pletenja v Evropi

Knitting guilds

- established to improve the quality of the profession and to attract a wealthier and stable clientele
- fitted stockings were worn by the men under short trunks
- ustanovljena z namenom izboljšati stroko in pritegniti premožne in bolj stabilne kupce
- moški so nosili oprijete nogavice pod kratkimi hlačami

Knitting guilds (cont...)



Fashionable knitted socks
from France

Knitted socks

- ▮ knitted in stocking stitch using three-ply wool and single needle technique
- ▮ ancient Scandinavian technique
- ▮ tight weave, provide maximum protection from the cold
- ▮ pleteno z nogavičarskim šivom, s tri plastno volno in s tehniko ene igle
- ▮ starodavna skandinavska tehnika
- ▮ tesno tkanje nudi maksimalno zaščito pred mrazom

Knitted socks (cont...)



First knitted socks, Victoria and Albert Museum, London

21st Century Revival

- internet allows knitters to connect, share and learn from each other
- in 1998, the first online knitting magazine (KnitNet)
- internet omogoča pletilcem, da se povežejo, delijo znanje in se učijo drug od drugega
- leta 1998 prvi magazin o pletenju na internetu (KnitNet)

History of knitting and hosiery in Slovenia

- ▮ until the middle of 18th century knitting for home use
- ▮ do srede 18. stoletja pletenje za domačo uporabo
- ▮ tended for market craftsman united in guilds
- ▮ za trg so skrbeli obrtniki združeni v cehe
- ▮ one of the oldest craftsmanship
- ▮ ena izmed najstarejših obrti

History of knitting and hosiery in Slovenia (cont...)

- wool production one of the most common farm activities
- hosiery has developed from knitting socks for domestic use
- best developed in upper valley of the Sava river , area between Tržič and Jesenice and also in Višnja gora and its vicinity
- proizvodnja volne-najbolj razširjena kmetijska dejavnost takrat
- nogavičarstvo se je razvilo iz pletenja nogavic za domačo uporabo
- najbolj razvito v zgornji Savinjski dolini, območje med Tržičem in Jesenicami ter Višnja Gora in okolica

History of knitting and hosiery in Slovenia (cont...)

▮ center of hosiery craft-
Tržič

▮ center nogavičarske
obrti-Tržič



Museum of Tržič - Kurnikova
house

History of knitting and hosiery in Slovenia (cont...)

- hosiery craftsmans united into hosiery fraternity in Tržič
- knitting in different patters: rooster, fish bone, spruce, bishops hat, grid, peacock feather, heart, etc
- nogavičarski obrtniki združeni v bratovščino v Tržiču
- pletenje v različnih vzorcih: petelinček, ribja kost, smreka, škofova kapa, mreža, pavovo pero, srce, itd.

History of knitting and hosiery in Slovenia (cont...)

- dyeing socks with red, blue and green or natural color of wool
- natural colours mix with urine instead with chemicals
- dried on the wood casts in a shape of a leg
- barvanje nogavic z rdečo, modro in zeleno ali pa v naravni barvi volne
- naravne barve zmešane z urinom namesto z kemikalijami
- sušenje na lesenih modelih nog

History of knitting and hosiery in Slovenia (cont...)

- decline of knitting craft at the checkpoint between 19th and 20th century
- competition of machines and industrial products
- upad pletilne obrti na prehodu iz 19. v 20. stoletje
- konkurenca strojev in industrijskih izdelkov

History of knitting and hosiery in Slovenia (cont...)



reconstruction of former knitting craft
workshop

First factories of knitwear and socks in Slovenia

- ▣ first factory in the 1899
- ▣ founded by Dragotin Hribar
- ▣ motive power from water wheel from Ljublanica
- ▣ 36 automatic, 40 manually machines and machine for dyeing
- ▣ prva tovarna leta 1899
- ▣ ustanovil Dragotin Hribar
- ▣ pogon z vodnim kolesom iz Ljublanice
- ▣ 36 avtomatskih pletilnikov in 40 ročnih pletilnikov ter stroj za barvanje

First factories of knitwear and socks in Slovenia(cont...)

- Franc Lajovic, knitwear and knitted fabrics tricot, Litija
- Josip Kunc&Co, factory of fabric and knittwear, Ljubljana
- Ika, mechanical factory of knitwear, d.z.o.z., Kranj
- First knitting factory in Maribor, d.z.o.z., Maribor
- Polzela, factory of knittwear, d.z.o.z., Polzela
- Franc Lajovic, pletenine in trikotaža, Litija
- Josip Kunc&Co, tovarna tkanin in pletenin, Ljubljana
- Ika, tehnična tovarna pletenin, d.z.o.z., Kranj
- Prva pletilna tovarna v Mariboru, d.z.o.z., Maribor
- Polzela, tovarna pletenin, d.z.o.z.

History and present in Polzela d.d.



logotype of Polzela d.d.

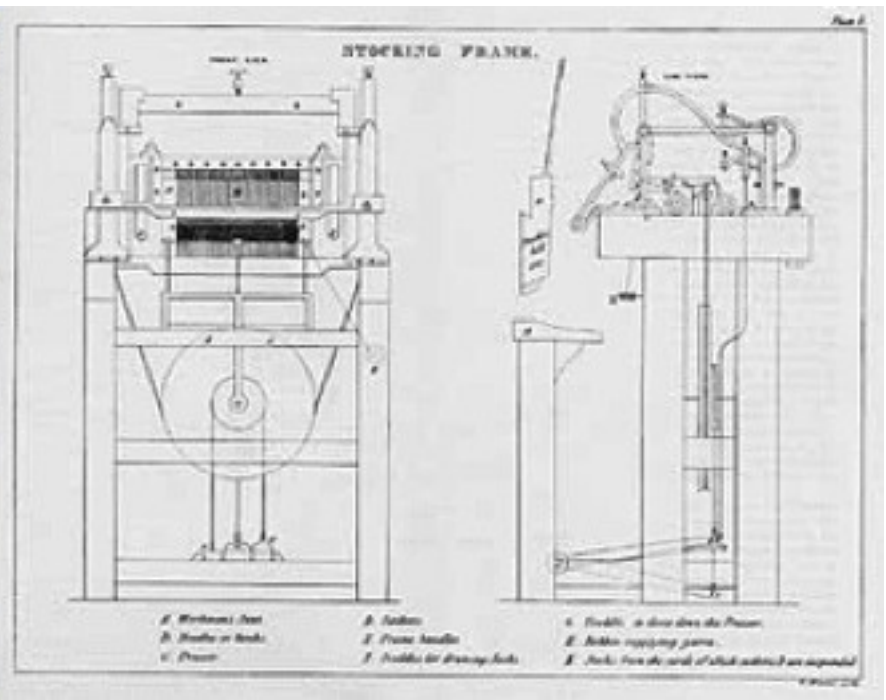
History and present in Polzela d.d.(cont...)

- beginnings in 1927
- Swiss industrialist with 60 employees
- in 1950 first socks of artificial silk
- pantyhose with name Peggy
- začetki leta 1927
- Švicarski industrialist z 60-imi delavci
- leta 1950 prve nogavice iz umetne svile
- hlačne nogavice z imenom Peggy

History and present in Polzela d.d.(cont...)

- now export 70 percent of their products
- work with high-tech machinery
- operating according to standard Oeko-tex 100
- the biggest producer of hosiery in Europe
- sedaj izvažajo 70% njihovih izdelkov
- delajo z stroji vrhunske tehnologije
- delujejo v skladu Oeko-tex 100
- največji proizvajalec nogavic v Evropi

History of knitting machines



Inventors

- William Lee in 1589 invented a mechanized knitting machines and needles
- in 1816 invented the circular knitting machines "tricoteur"
- in 1849 invented latch needle
- William Cotton in 1864 invented the automatic knitting machines
- William Lee leta 1589 izumil mehanizirani pletilnik in iglelnico
- leta 1816 izumili krožni pletilnik "tricoteur"
- leta 1849 izumili jezičasto iglo
- William Cotton leta 1864 izumil avtomatski pletilnik

Shared history of knitting machine

- 4. century BC:
 - invented Nalebinding
- 14. Century:
 - the development of hand knitting
- 16. Century:
 - William Lee invented the 1st machine
- 17. and 18. Century:
 - 1st gadgets of knitting machines
- 4. stoletje p.n.š.:
 - izumili Nalebinding
- 14. stoletje:
 - razvoj ročnega pletenja
- 16. stoletje:
 - William Lee izumil 1. stroj
- 17. in 18. stoletje:
 - izum 1. pletilnega stroja

Shared history of knitting machine (continued)

- 19. Century:
 - “tip-top” knitting
 - 20. Century:
 - Industrial revolution
 - circular knitting machines
 - seamless socks
 - 21. Century:
 - increase in production
- 19. stoletje:
 - “tip-top” pletenje
 - 20. stoletje:
 - Industrijska revolucija
 - krožni pletilniki
 - brezšivne nogavice
 - 21. stoletje:
 - povečanje proizvodnje

Knitting machines



Knitting machines (continued)

- the first knitting machines
 - producing coarse stockings
 - sharing 8E
 - speed knitting from 500 – 600 stitches on minute
- machines constructed in 1597
 - producing silk stockings
 - sharing 20 E
 - speed knitting 1000 – 1500 stitches on minute
- prvi pletilnik
 - izdeloval grobe nogavice
 - delitev 8E
 - hitrost pletenja 500 – 600 zank na minuto
- stroj izdelan leta 1597
 - izdeloval svilene nogavice
 - delitev 20 E
 - hitrost pletenja 1000 – 1500 zank na minuto

Hand and machine spinning

- hand knitting with needles
- Northville in 1867 invented the home machine - Lamb Knitting Machine
- Masako Hagiwara in 1924 invented the 1st home manual knitting machine
- in 1870 invented Crane Knitter
- ročno pletenje z iglami
- Northville leta 1867 izumili domači stroj – Lamb Knitting Machine
- Masako Hagiwara leta 1924 izumil 1. ročni domači pletilni stroj
- leta 1870 izumili Crane Knitter

Home knitting machine



Modern industrial knitting machine in action

