



AUTOMATIC-LINKING SOCKS KNITTING MACHINE
INTEGRATION KNITTING- LINKING -TURNING OUT



CHANGSHU CHF IMP. AND EXP.CO.,LTD

SINGLE CYLINDER

LF515 - LF516 - LF615 - LF616 - LF715 - LF716



INTRODUCTION

LEEFU automatic-linking sock knitting machine equips with a stable stitch by stitch automatic toe linking device, and belongs single cylinder sock circular knitting machine with one main feed knitting and the possibility of multi-color patterns with reciprocated toe and heel, which is one of the best sock machine productions in the world and can produce several different items, from the very simple to the most complex, without compromising on quality and efficiency. The finishing knitting sock can be transferred to the stable stitch by stitch automatic toe linking device, and can be simultaneously implemented linking and turning out. LEEFU sock machine is a fully automatic-linking computerized single cylinder sock circular knitting machine integrated with knitting, linking and turning-out.

LEEFU sock machine is available in different cylinder diameters and numbers of needles, which can knit high heels, big heels, small heels, left and right feet, 180°-anti socks, one-time boat socks, two color socks head and heel, two color bottom of socks, sock 3D effect.

Latest generation electronics system provides control and execution of all machine commands. Drawings and articles are created and managed by design software, which contains a full collection of styles. The designer can combine in different ways to obtain the desired results. Machine can equip with 6 or 5 colors yarn groups, plain knit, or terry, or plain and terry double use, or free terry, also free terry on reciprocating areas.

TECHNICAL FEATURES

| | |
|---------------------------|---|
| TRADITIONAL PROCESS | Knitting——Turning out —— Linking —— Turning out —— Boarding |
| AUTOMATIC-LINKING PROCESS | Knitting and Linking —— Boarding |



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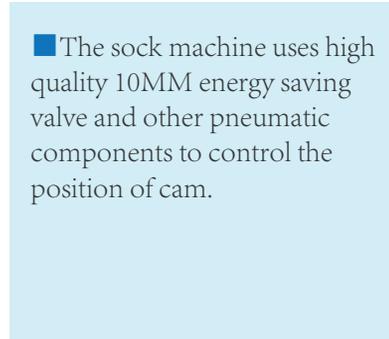
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AUTOMATIC-LINKING SOCKS KNITTING MACHINE EQUIPMENT AND TECHNICAL ADVANTAGE



■ The production process of socks is simplified: by the linking head transfer device, the two actions of knitting socks and linking socks can be synchronized, and the socks production.



■ The sock machine uses high quality 10MM energy saving valve and other pneumatic components to control the position of cam.



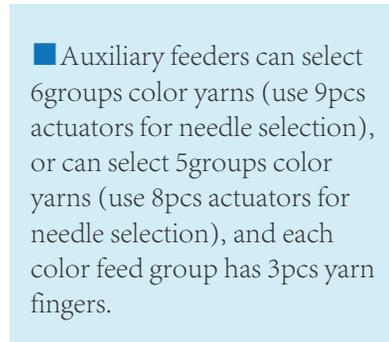
■ The production cost of socks have been significantly saved, and waste yarn is reduced. It reduces the manual linking process and the additional linking device, and sock factories have fewer operators and lower labor costs.



■ Main feeder has 9pcs pneumatic yarn fingers with independent half position.



■ The high-quality stitch by stitch automatic toe linking technology increase the flatness of socks, and make the sock more comfort and wear-resistant.



■ Auxiliary feeders can select 6groups color yarns (use 9pcs actuators for needle selection), or can select 5groups color yarns (use 8pcs actuators for needle selection), and each color feed group has 3pcs yarn fingers.



■ Density adjustment device use a high-precision step motor.



■ Independent elastic yarn finger with second position.

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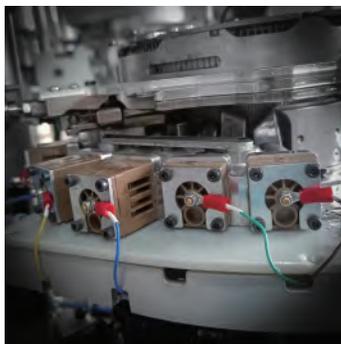


AUTOMATIC-LINKING SOCKS KNITTING MACHINE EQUIPMENT AND TECHNICAL ADVANTAGE



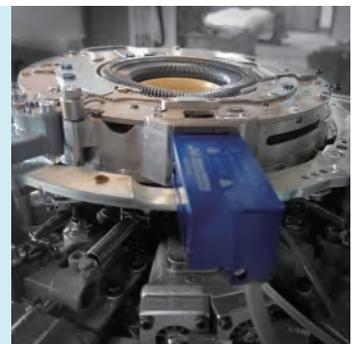
■ Needle selector system use Siemens piezoelectric ceramics needle selector. For example LF616RM (free and selected terry) series have 9 pcs 8sections actuators for needle selection and 1pcs 6segment electronic actuator for sinker selection.

■ Highly sensitive yarn breaking sensor improves the rate of good socks.



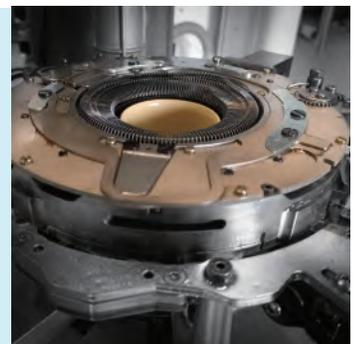
■ Knife detection system check whether the knife work in right place and improves the working stability of the sock machine.

■ The terry selector controls the knitting state of each knitting needle, realizing the double use of plain knitting and terry knitting, and fast switching between two knitting functions.



■ The needle latch sensor detects whether the needle latch is bent or not sensitive working states, and improve the working stability of the sock machine. Highly sensitive automatic alarm system for broken needles reduces needle loss and makes abnormal alarm.

■ The high-quality sinker cap works with the terry selector, there are two working states of high speed plain and terry. Two motors of the sinker cap make the high speed plain and terry more stable.



■ The jacquard broken needle detector is used for the abnormal state of jacquard needles, and improves the quality of jacquard socks and reduce the loss of jacquard needles.

■ The circular cutter can be stopping state when no yarn cutting, and the motor control needle pressed cam and circular cutter.



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AUTOMATIC-LINKING SOCKS KNITTING MACHINE EQUIPMENT AND TECHNICAL ADVANTAGE

- Double independent lifting/lowering pickers system makes different size and design for heel and toe and 3D effect socks.
- Computerized control system is stable, and touch screen operation is simple and convenient. System equips with UPS function which can continue the knitting and save programs automatically after the electricity returned.
- Lowering of dial head by electric driving system.
- Free(selected) terry pattern no need cutter.
- Ducking stitch cam with three positions.
- New base designed to increase solidity and rigidity, allows a more ergonomic assembling of components.
- Brushless main motor co-axial with the cylinder.
- Language with Chinese, English and other language exchange support.

KNITTING POSSIBILITIES (FOR EXAMPLE LF616RM)

- 6 colors pattern plus ground, mesh, tuck and float stitch, plain knit or terry;
- With laid-in elastic: 5 colors pattern, plus ground color, tuck and float stitch, plain knit or terry;
- With laid-in elastic: 4 colors pattern, plus ground color, mesh, tuck and float stitch, plain knit or terry;
- Socks 3D effect.

OTHER OPTIONAL EQUIPMENT

- > Extra tensioners for Lytra
- > Memminger or B TSR or LGL yarn storage feeders
- > Intelligent management system
- > Multi-function yarn frame
- > Blower pushing fabric
- > Highly sensitive yarn breaking sensor
- > The terry selector
- > The high-quality sinker caps
- > Foot let reinforcement



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TECHNICAL PAARAMETERS

| SPEC | P-PLAIN | M-TERRY | PM-PLAIN AND TERRY DOUBLE USE | RM-FREE TERRY |
|-------------------|---|----------------------------|-------------------------------|-----------------------------------|
| CYLINDER DIAMETER | 3 1/2" ; 3 3/4"; 4" | | | 3 3/4"; 4" |
| NEEDLE(PCS) | 108-200 | | | 108-200 |
| MAX SPEED(RPM) | Plain 350 | Terry 300 | Plain 350/Terry 300 | Plain 350/Free terry 250 |
| TERRY MODEL | Nothing | Pneumatic needle selection | | Electronic terry needle selection |
| MAIN YARN FEEDING | 9pcs Pneumatic shuttles with independent half position | | | |
| COLOR YARN | 5groups*3 / 6groups*3 | | | |
| NEEDLE SELECTOR | 6groups color yarn use 9pcs electronic needle selector; | | | |
| | 5groups color yarn use 8pcs electronic needle selector; | | | |
| SEVER MOTOR | 1.5 | | | |
| FAN MOTOR | 1.5-2.0 | | | |
| CONTROLLER | 1 | | | |
| VOLTAGE(V) | 220/380 | | | |
| NW/GW(KG) | 350/400 | | | |
| DIMENSION(CM) | BOUNDARY 110*110*230 Package 120*110*190 | | | |

MODEL NAMING RULES

| THE FIRST WORD | THE SECOND WORD | THE THIRD WORD | THE FOURTH WORD |
|----------------------------------|--------------------------------|-----------------------------|---------------------------------|
| 7 means 3 1/2" Cylinder Diameter | 1 means one main feed knitting | 6 means 6groups color yarns | P=Plain |
| 6 means 3 3/4" Cylinder Diameter | | 5 means 5groups color yarns | M=Terry |
| 5 means 4" Cylinder Diameter | | — | PM= Plain and Terry double use |
| — | | — | RM= Free Terry (Selected Terry) |

For example: LF616RM model means LEEFU brand, 3 3/4" Cylinder Diameter, one main feed knitting, 6groups color yarns, and Free Terry (Selected Terry).

GAUGE

| GAUGE | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-------|--------------------------|---|----|---|-----|-----|-----|-----|-----|-----|-----|--------------------------|-----|----|-----|-----|-----|--------------------------|-----|-----|-----|-----|-----|
| Model | ø | 6½ | 7 | 7½ | 8 | 8½ | 9 | 9½ | 10 | 10½ | 11 | 11½ | 12 | 12½ | 13 | 13½ | 14 | 14½ | 15 | 15½ | 16 | 16½ | 17 | |
| 615/616 | 4" | | | | | 108 | | 116 | | 128 | 136 | 144 | | 156 | | 168 | 176 | 180 | 188 | 192 | 200 | | | |
| | | Needle thickness 0.85 mm | | | | | | | | | | | | | | | | | | | | | | |
| | | Needle thickness 0.70 mm | | | | | | | | | | | Needle thickness 0.70 mm | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | Needle thickness 0.60 mm | | | | | |
| 615/616 | 3"3/4 | | | | | | 108 | 112 | 116 | 120 | 128 | 132 | 136 | 144 | | 156 | 160 | 168 | | 176 | 180 | 188 | 192 | 200 |
| | | Needle thickness 0.85 mm | | | | | | | | | | | | | | | | | | | | | | |
| | | Needle thickness 0.70 mm | | | | | | | | | | | Needle thickness 0.70 mm | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | Needle thickness 0.60 mm | | | | | |

Above data are indicative and not binding.

DISCLAIMER

Working speed relative to many factors such as yarn, knitting procedure and workshop condition etc.

We reserve all the rights to amend and interpret details of technical specifications without any prior notice.

LEEFU is recommending needles from
GROZ-BECKERT®



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