

# BIOTEX

BECK LATINOAMERICA, S.A.

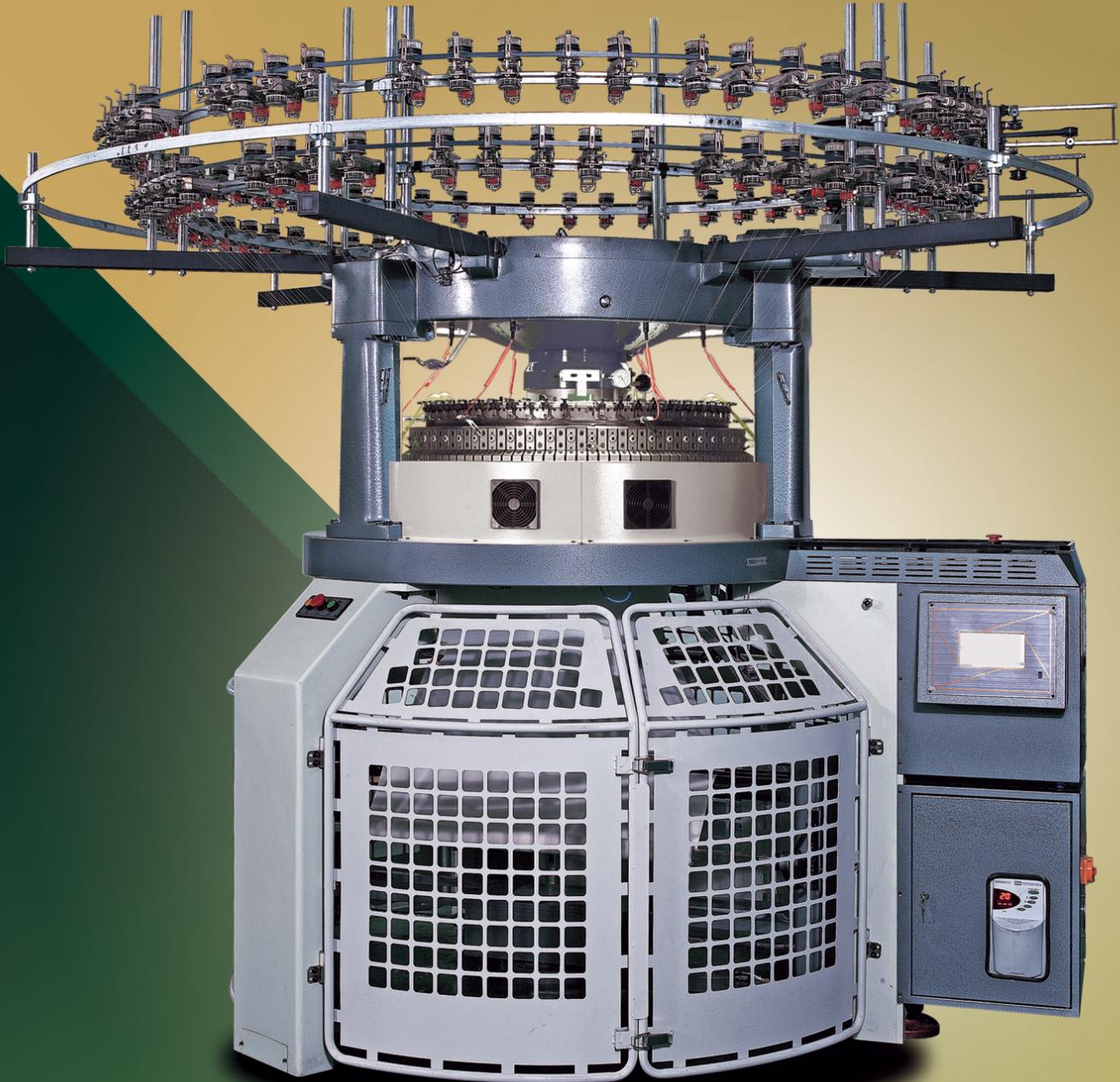
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# Double Computerized Jacquard Machine

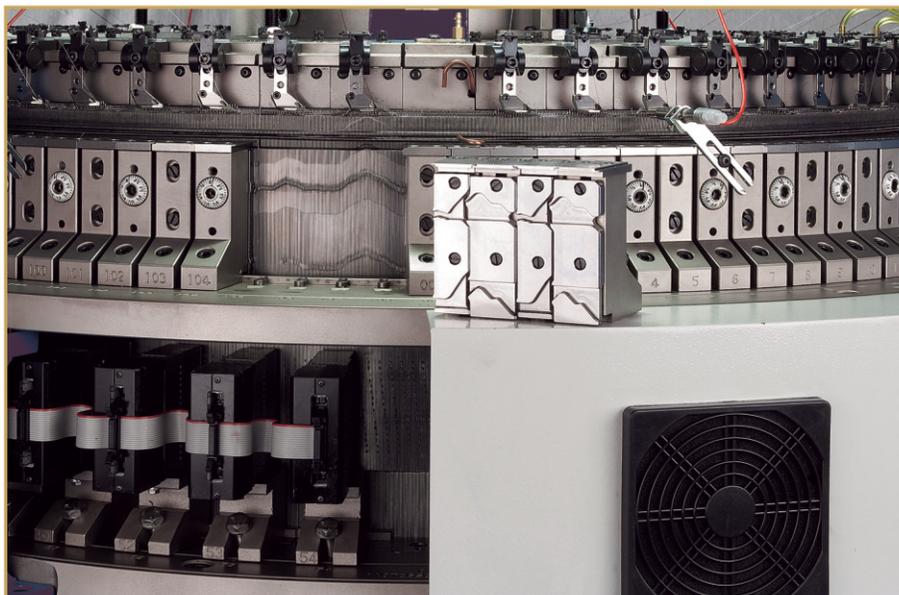


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MODEL	DIAMETER	GAUGE	FEEDER	MATERIAL
BD-1.6-YQTH	30"-36"	12G-18G	48F-58F	Chemical fiber, Cotton, Silk...
BD-1.6-DNTH	30"-38"	12G-28G	48F-60F	
BD-1.8-DNTH	30"-38"	12G-28G	54F-68F	
BD-2.1-DNTH	30"-38"	12G-28G	64F-80F	

Photos and Specifications are for reference only, please prevail in kind.



# BIOTEX

### > Introduction

Computerized Double Jacquard Machine is a large circular knitting machine, invented by BECK LATINOAMERICA, S.A. who has compounded the machine manufacture technology and knitting experiences of many years and the advanced techniques of International Discretionary Knitting Organization.

The machine adopts the computerized actuator to select needles on the needles cylinder, which can weave jacquard for various designs. The computerized discretionary knitting device will make three steps needle-selecting of loop formation, loop tucking and line float. Any design of weave with complicated structure can be switched to the special control instructions by the computerized fleuron preparatory system. These instructions control the computerized discretionary knitting device of the machine, which makes big double jacquard fabrics, but the bottom of the fabrics will be woven by needle in parallel rows of knitting bed.

Feature of the Machine:

1. The design of the control system applies the most advanced microprocessing combining electronic calculation processing system and the computerized actuator in the body of the machine. It uses the finger-touching liquid crystal (LCD) screen, and is easily handled without occupying much room, which makes the whole machine tidy and beautiful.
2. No draft needs special drawing software. Almost all the drawing software package in the market nowadays can be used universally. Any cloth face or design can be input to the computer by scanning and programming. After undergoing a process of color tidying and draft mending, it'll be switched in the magnetic sheet that operates the machine. You can change the floral patterns in just a few minutes. The fleuron data can be also stored in the hardware or software disk of the computer.
3. Three steps of computerized needle-selecting techniques ( loop, tuck, float ) can weave jacquard of any designs. The function overcomes the knitting limits of the common Jacquard and saves the time of pattern changing.
4. The Jacquard includes the knitting needles, central needle wafers and jacquard weave wafers. The basic part is the small Jacquard with computerized actuator, which helps to produce high-yield fabrics.
5. Computerized Needle-Selecting System: A selecting needle includes two ceramic wafers, which stick to each other. The principle of needle-selecting is One piece of ceramic wafer is bent by current and voltage, which forces the needle-selecting wafer of the computerized actuator to move ups and downs, and then select the needles. There are two lines of needle-selecting wafers on each needle-selecting device, and eight sets of wafers in each line. In addition, a pair of wafers is equipped in each row. They are two poles, acting on one piece of jacquard weave wafer of two different altitudes. We adopt an eight part needle-selecting instrument. The spatial distance of needles can afford the instrument enough time to achieve the high-speed production. The computerized needle-selecting instrument can keep low power consumption and thermophilic heat during longtime running, so it can guarantee the accuracy of needle-selecting. As to the resetting system, the jacquard weave wafer adopts the forced regression lozenge design which makes the cycle selecting of needles more accurate without elastic fatigue failure, and therefore keep fairly high speed and production. The needle-selecting wafer alone pushes the jacquard weave wafer's butt, and helps it act on the upper knitting needles by jacquard weave wafer through the central needle wafer, entering the position of tuck or flat knitting. If there's no pushing, then it'll conduct the loop formation.
6. Fabric Rolling Device System: This fabric rolling machine is the combination of the single torque-type motor and the mechanical drive. It can roll the bad cloth at the same time and stabilize the actions of fabrics stretch. The size of the fabric won't affect its weight, and the range line is even. It's simplified operated, only by adjusting the rotary button.
7. The precise encoder can accurately calculate the positions of knitting needles and make the zero adjustment. The encoder can also correct the errors caused by the inertial when the machine starting-ups or halts. In order to make the needle-selecting more accurate, we add a detector to increase the effect of zero adjustment. Control system can check the coding machine and judge whether its signal is correct or not, so as to guarantee the stability of the whole system.

The machine can be added with different parts to make the big ingrain towel fabric so that broadens its multi-functions.

Cloth for Weaving: double ingrain cloth, ingrain towel cloth, velvet cloth, tapestry cloth, change-needle and caltrop convex cloth, and rib knit cloth.

