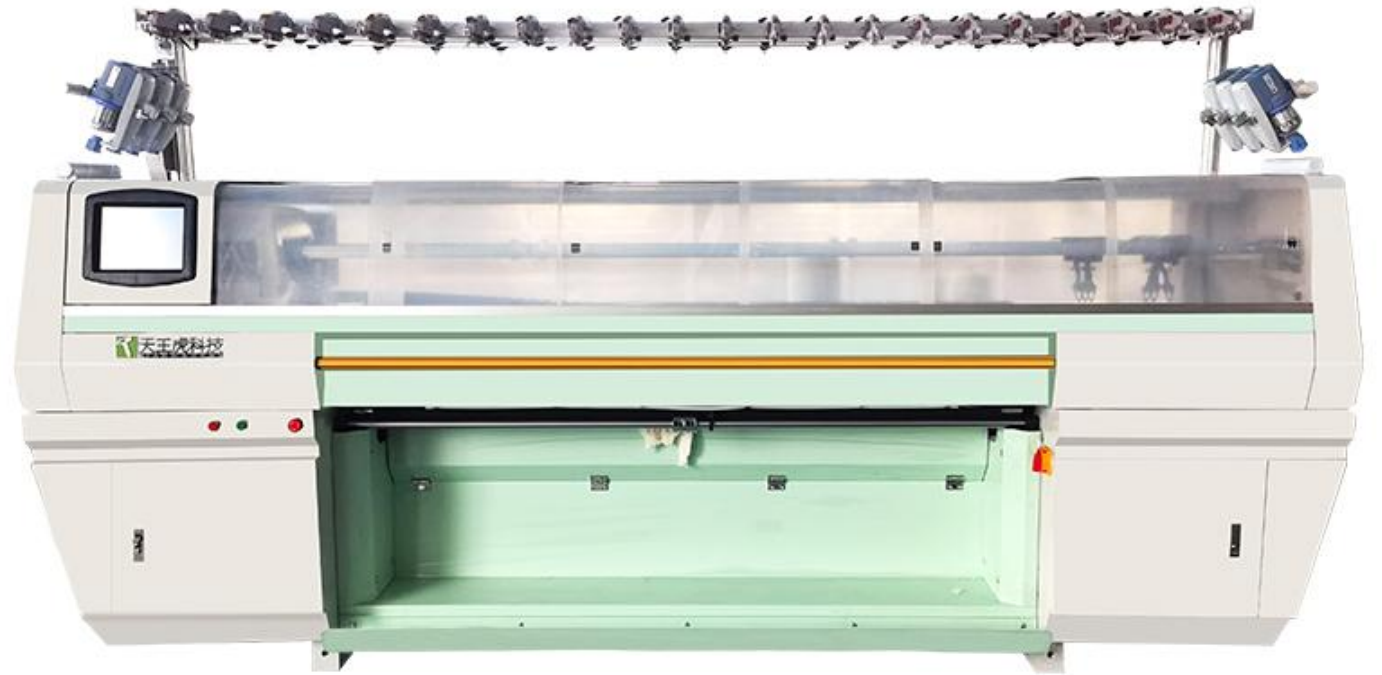
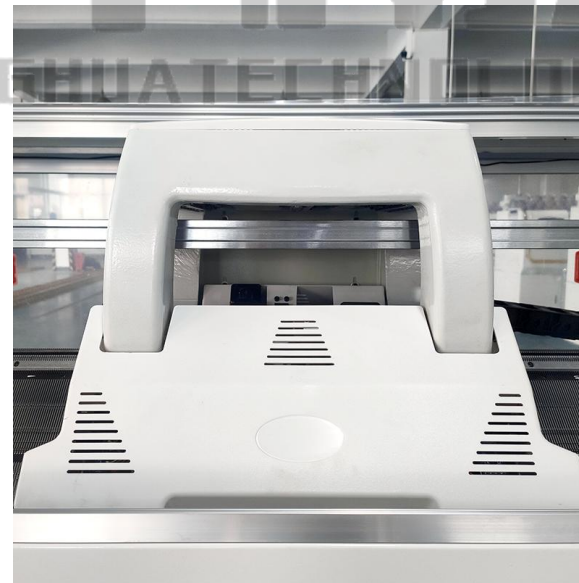
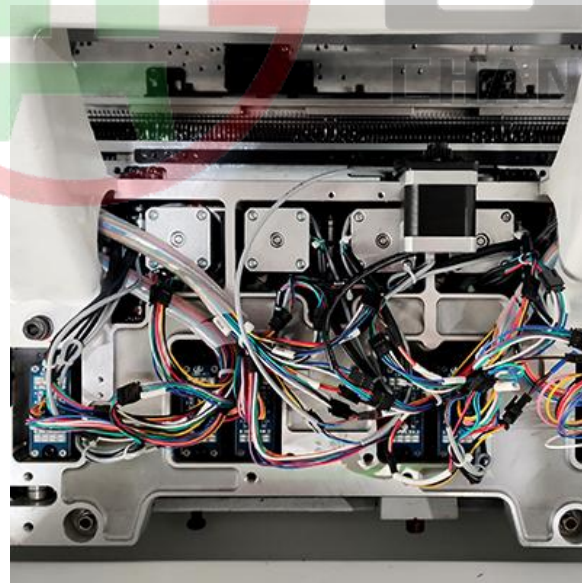
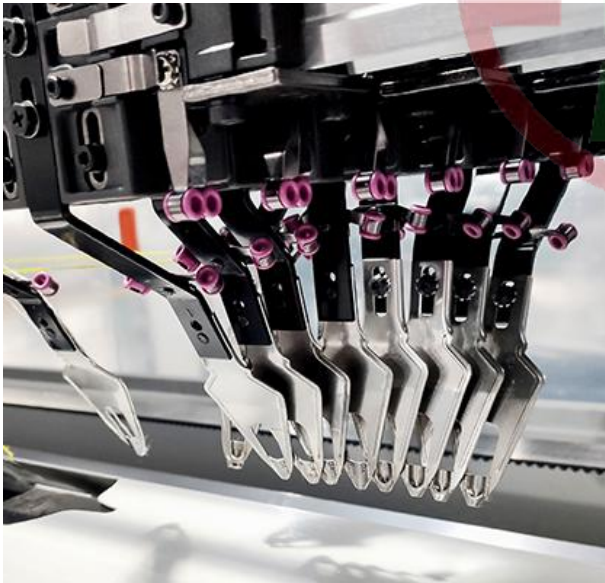


Whole Garment Sweater Flat Knitting Machine

Changshu Changhua Smart
Manufacturing Technology CO,LTD



Machine Details



Product Display





- The Changhua Whole Garment Sweater Flat Knitting Machine revolutionizes knitwear production with its groundbreaking seamless technology. This fully computerized machine integrates advanced 3D knitting capabilities to create complete sweaters in a single process, eliminating cutting and sewing for zero material waste.
- Featuring multi-axis robotic needle beds and intelligent yarn feeding systems, the machine produces complex whole-garment structures with precision stitch control, including intricate intarsia patterns, multi-layer designs, and functional ventilation zones. The high-resolution touchscreen interface allows direct CAD pattern import and real-time adjustments, while servo-driven mechanisms achieve speeds up to 1.2m/s without compromising quality.
- Engineered with sustainable production in mind, the machine reduces energy consumption by 30% compared to conventional systems. IoT-enabled connectivity provides remote diagnostics and production analytics for smart factory integration. Changhua's innovation empowers luxury brands and eco-conscious manufacturers to deliver perfectly fitting, high-value knitwear with unprecedented efficiency - redefining the future of sustainable fashion manufacturing.

PRODUCT SPECIFICATION

Gauge	6.2G7.2G9.2G10.2G13.2G
Knitting width	72,80 Inch
Knitting system	WHOLE GARMENT SYSTEM
Knitting speed	Controlled by servo-motor with 128sections optional, max speed reach 1.6m/s.
Knitting function	Pointelle, tuck, intarsia, needle, all kinds of jacquard, apparent shape, open needle, hidden shape and so on.
Racking	Controlled by servo-motor racking within 2 inches and with fine adjusting function. Transfer and knit occurs synchronous, more efficient.
Stitch density	Controlled by stepping motor, 128 section stitch select-able adjustable scope supported by subdivision technology:0-650 the stitch of the knitwear can be accurately controlled.
Dynamic stitch	Using high speed stepping motor, multi-stitch function can be achieved in one line.
Needle selection	Advanced encoder reading pin.8-stage selecting needle setup composed of special electromagnet is regarded as efficient full width jacquard needle selector, which can be installed or removed simply from the carriage and maintained easily.
Transfer system	Combined design, single or double cam system all cam transfer together or separately. Also one can do transfer, another cam system for knitting, which will achieve high production.
Quickly turning	Intelligent switching braiding system improves machine weaving efficiency.
Take-down system	The transverse tension and front and rear bed are separately controlled. It can realize the independent control of a variety of pulling forces and front and rear beds in one line, and meet the pulling force requirements of different organizations. It is a necessary configuration for whole garment.
Color-changing system	2x8 yarn feeders on each side of 4 guide rails, shift able on any needle position; Motorized Feeder (Optional).
Yarn feeder device	Accurately control the tension of the yarn and ensure the consistency of the whole woven piece quality.
Protection system	The machine will automatically alarm if yarn-breaking, knots, floating yarn, rewind, end of knitting, fail of racking, needle breakage, error programming occur, also set up the safety auto-lock protect device.
Control system	1. LCD industrial display, can display various parameters, which can be adjustable during operation.2.USB memory interface, System memory 2G.3.Free design system is visual and easy to understand and software upgrade free of charge.4.Support multi-language operation as Chinese and English, Spanish, Russian etc.
Network function	Automatic refueling: Control the refueling time and frequency by setting the time. The oil pump lubricate the jack and long jack needle on the needle bed automatically to reduce the wear of the machine and increase its service life.
Power supply	Single-phase 220V/three-phase 380V,adopt advanced CMOS technology, having memorizing function at power shock stop.
Non waste yarn Comb device	The device equipped with 2 clips and 1 scissors on both sides, High precision step motor is used for wire feeding, and servo motor is used to control up and down.
Volume and weight	3500*1000*1800mm,1450kgs(72inch);3700*1000*1800mm,1500kgs(80inch)
Sinker system	Controlled by stepping motor, adjustable to different knitwear, up to be various results of shaping and patterns.
Reducing device	Automatic refueling: Control the refueling time and frequency by setting the time. The oil pump lubricate the jack and long jack needle on the needle bed automatically to reduce the wear of the machine and increase its service life.