

VEGA 3.130

CHARIOT PORTE-CAMES

Machine 1 tête à chariot ouvert, enfilage direct du fil
Porte-cames triple chutes avec report bidirectionnel dans chaque chute
Fonction trois-pistes techniques avec bouche-trou intégré
Serre de mailles à changement électronique sans limite à tout instant
Sélection Steiger électronique des aiguilles

FONTURES

Longueur utile 130 cm
Pince-fil, coupe-fil et pique-fil intégré
Chevalement sélectif +/- 42 mm
Avec possibilité de corrections
Jauge E5 à E18 équipées d'aiguilles talons noyés à report fraisé
Sélection par une seule clavette mono-sélecteur
Auto-nettoyage par aspirateur Venturi
Freegauge (option)
Peigne de tirage

GUIDE-FILS

16 guide-fils motorisés
Canre externe 16 arrêts aux nœuds (option)
Programmation automatique du pilotage des guide-fils
Dispositif frameur unique (option)
Vanisage de haute qualité réalisable par guide-fils multiples
Distributeur de fil jeteur type Argyle (option)
Kit support fournisseurs avec alimentation intégrée (option)

POSSIBILITÉS / PERFORMANCES

Tous types de jacquards et structures
Formes, finitions, divers, chaînettes, col intégré, intarsia façon Steiger
Reprise de tricotage sur aiguilles vides
Fléchage illimité grâce à son tirage actif à 25 mm de la formation de maille
Programmation Model Version 8 avec licence d'utilisation
Model Version 9 mise à jour, assistance et maintenance cumulées (option)
Model+ mise à jour, assistance et maintenance cumulées (option)

ENTRAÎNEMENTS

Chariot par moteur "brushless" course variable à l'aiguille de 0 à 1,60 m / sec.
Guide-fil moteur Brushless
Tirage tricot par moteur à courant continu avec possibilité d'inversion

CONTRÔLES / SÉCURITÉS

S-Touch 2.0
Toutes sécurités nécessaires pour arrêter la machine en cas de casse-fil, nœud, choc, surcharge, bourrage
Batterie de sauvegarde du programme en cas de coupure de courant
Arrêt au bourrage rétractable
Carte accès réseau-atelier 10/100 Mbp
Programme d'auto-diagnostique
Mémoire machine 1 Gb
Interface utilisateur par écran tactile couleur 10"
Clé USB pour transfert et sauvegarde des programmes
Netcontrol : gestion de la production (option)
Duoknit : tricote 2 articles sur la fonture (option)
Contrôle à distance de la machine

DIMENSIONS/CONSOMMATION

Longueur : 2860 mm
Hauteur : 1900/2400 mm
Largeur : 720/1060 mm
Poids : 750 Kg
Puissance : AC400V +/- 10% ; 50Hz ; 1,5 KW

CARRIAGE - CAM BOXES

Single head without cam carriage bridge, with direct yarn feeding from the top.
Three systems cam boxes each with integrated bi-directional transfer
Unlimited patterning possibility with the Three-Way-Technique
integrated split-stitch function
Stitch length controlled electronically with possibilities to modify any time
Electronic needle selection

NEEDLEBEDS

Working width 130 cm
Yarn clamps / scissors and yarn picks integrated
Selective racking over +/- 42 mm with possibility of correction
Gauge E5 à E18 equipped with grooved retracted transfer needles
Mono-selector
Auto cleaning by venturi
Freegauge (option)
Comb Steiger patent

YARN CARRIERS

Equipped with 16 motorised yarn carriers
Outside creel with 16 yarn tensioners (option)
independently programmable yarn carriers
Unique device for in-lay for technical articles (option)
Plating with 2 yarn carriers
Yarn carriers type "Argyle" (option)
Kit for supporting yarn feeding unit (option)

POSSIBILITIES / PERFORMANCES

All types of jacquard and structures
Shape, cast-off, V-neck, etc.
Press-on on empty needles
Narrowing by retained stitch
Programming with Model Version 8 with utility licence
Model Version 8 updates, assistance and maintenance
Model Version 9 updates, assistance and maintenance (option)
Model+ updates, assistance and maintenance (option)

DRIVES

Carriage brushless motor adjustable from 0 to 1,60 m / sec. max.
Yarn carrier encoders
Upper take down system with possibility of reversing drive

CONTROLS / SECURITIES

S-Touch 2.0
All necessary devices to stop the machine in case of yarn breakage, knot, running out of yarn, shock, fabric
Press-off, over-heating motors, load-up detector
Reserve battery (in case of power failure)
Load - up detector
Self diagnostic
Backup capacity 1 Giga
Network 10/100 Mbps
10" color touch-screen interface
Interface _USB stick
Netcontrol production control
Dimensions (option)
Duoknit : 2 samples produced on the same needle-bed (option)
Remote control of the machine

DIMENSIONS

Length: 2860 cm
Height: 1900/2400 mm
Width: 720/1060 mm
Weight: 750 kg
Power consumption: AC400V +/- 10% ; 50Hz ; 1,5 KW

CARRO CON PIASTRE PORTA CAMES

Macchina a una testa a carro aperto, con alimentazione diretta del filo.
Piastrine porta camma a tre cadute con trasporto bidirezionale in ogni caduta.
Tre vie tecniche con tappabuchi integrato.
Gradazioni di maglia con controllo elettronico illimitato in ogni istante.
Selezione elettronica Steiger degli aghi.

FRONTURE

Lunghezza utile 130 cm.
Pinza, forbice e prendi filo integrati.
Spostamento selettivo +/- 42 mm con possibilità di correzione.
Finezze E5 – E18 con ago fresato a tallone annegato.
Selezione con una sola platina monoselettore.
Autopulizia con aspiratore Venturi.
Freegauge (opzione).
Pettine di tiraggio.

GUIDAFILI

16 guidafili motorizzati orizzontalmente e verticalmente.
Cantra esterna di 16 tensioni (opzione).
Programmazione automatica del posizionamento dei guidafili.
Esclusivo dispositivo tramatore (opzione).
Vanisé di alta qualità realizzabile con guidafili multipli.
Guidafili con beccuccio tipo "Argyle" (opzione).
Kit per supporto di fornitori di filo (opzione).

POSSIBILITA'/PRESTAZIONI

Tutti i tipi di Jacquard strutturato.
Capi sagomati, finiture, catenelle, scollo integrato, intarsio tipo Steiger.
Rimagliatura su aghi vuoti.
Fléchage illimitato grazie al tiraggio attivo a 25 mm. dalla formazione delle maglie.
Programmazione Model Versione 8 con licenza d'uso.
Model Versione 9 con aggiornamenti, assistenza e manutenzione (opzione).
Model + con aggiornamenti, assistenza e manutenzione (opzione).

TRAINO

Motore "brushless", corsa variabile sull'ago da 0 a max. 1,60 m./sec.
Motori brushless per guidafili.
Motore a corrente continua per tiraggio con possibilità di inversione.

CONTROLLI/SICUREZZE

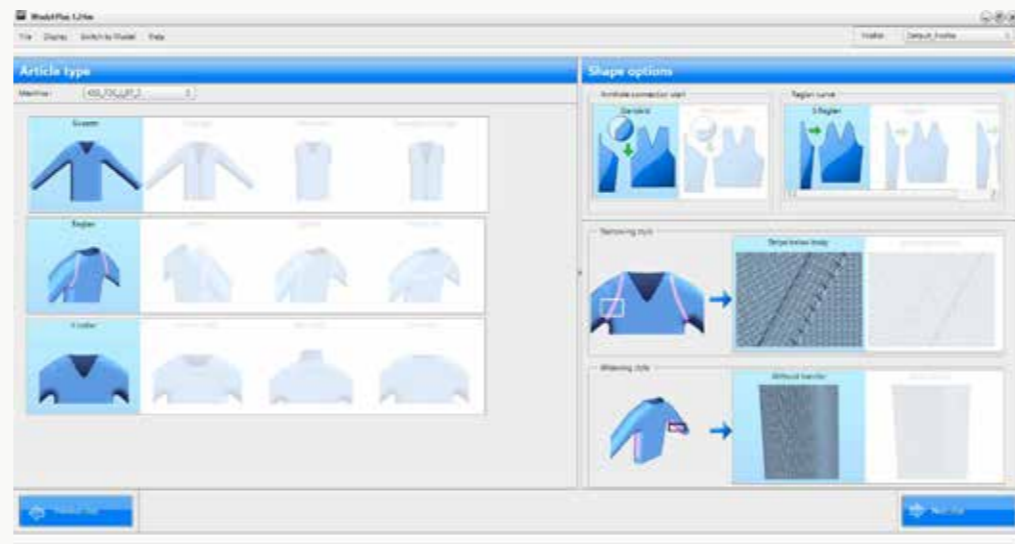
S-Touch 2.0
Tutte le sicurezze necessarie per arrestare la macchina in caso di rottura di filo, nodi, choc, sovraccarico, salva aghi, etc.
Batteria di salvaguardia del programma (in caso di black-out elettrico).
Salva-aggi retrabile.
Scheda gestione collegamento in rete 10/100 Mbps.
Programma di autodiagnostica.
Memoria macchina 1 Gb.
Interfaccia utilizzatore tramite touch-screen da 10" a colori.
Uscita per chiave USB.
Netcontrol: gestione della produzione (opzione).
Duoknit: lavora contemporaneamente 2 articoli sulla frontura (opzione).
controllo remoto della macchina

DIMENSIONI/CONSUMI

Lunghezza: 2860 mm
Altezza: 1900/2400 mm
Larghezza: 720/1060 mm
Peso: 750 kg.
Potenza: AC 400V +/- 10%; 50 Hz; 1,5 KW.

MODEL+

STEIGER offers new software solutions to optimize the output of your machines. Discover MODEL+ the totally new programming software. Intuitive, powerful and easy to access, it makes programming of integral knitting, multilayer knitting, complex in-lay and Intarsia available to the greatest number of people.



NETCONTROL 2.0

With Netcontrol 2.0, the production control software, just connect your machines to a server and optimize the productivity of your workshop.

Features:

- Networking machines
- Online monitoring of the machines' status
- Centralised production management
- Statistics

Customer benefits:

- Simplified production supervision
- Cost reduction
- Quality and productivity monitoring
- Increased productivity

Steiger is a renowned flat knitting machine manufacturer based in Vionnaz, Switzerland. Founded in 1949, the company is part of CiXing group since 2010 and employs approximately 100 people worldwide. It is the technology leader for industrial knitting machines used for technical and medical products. In the fashion world, it is recognised for the quality of its stitch and for its Intarsia machines. Steiger delivers its products worldwide through a sales and extended service network. A corporate culture based on innovation and a partnership with CiXing group has enabled Steiger to remain the technology leader in the flat knitting industry.

Steiger Participations SA

Route du Simplon, 20
1895 Vionnaz
Suisse

T +41 24 24 482 22 50

F +41 24 482 22 78
info@steiger-textil.ch
www.steiger-textil.ch

Ningbo Cixing Co., LTD.

West weisan road, Andong Town
Industrial Zone
Cixi City, Zhejiang, China 315327

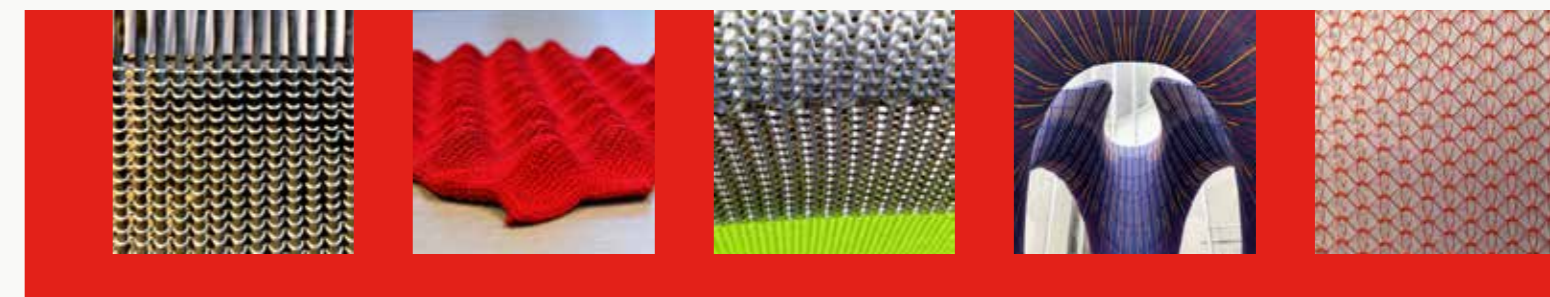
T +8657463071517

F +8657463071584
info@ci-xing.com
www.ci-xing.com



Flat knitting machine

VEGA 3.130



VEGA 3.130



La Vega 3.130 est la solution pour le tricotage de matériaux techniques et composites développée par les spécialistes de notre Stitch Lab. La distance entre les fontures est réglée en fonction du produit du client pour tricoter par exemple des préformes qui sont ensuite solidifiées. Un chemin de fils innovant permet de tricoter des fibres standards ainsi que des fibres semi-rigides sans endommager leur qualité mécanique. Les atouts reconnus de Steiger comme le chariot ouvert et les guides-fils motorisés sont optimisés sur la VEGA 3.130 pour cette application spécifique. Le tirage est amélioré pour permettre le tricotage de formes complexes en 3 dimensions. Le porte-came modifié augmente la productivité de ces produits complexes. Les pinces à crémaillères sécurisent la prise et la coupe de fils de natures très variées. La Vega 3.130 est équipée de l'interface utilisateur S-TOUCH 2.0. Conviviale et facile d'utilisation elle autorise un contrôle ou un dépannage de la machine à distance.

The Vega 3.130 is the solution for the knitting of technical and composite material developed by our in-house Stitch Lab specialists. The gap between the needlebeds is adjusted to the specific customer's requirements for producing for example preformed and subsequently solidified parts. An innovative yarn path allows to knit standard fibres as well as semi-rigid yarns without damaging their quality. The well-known characteristics of Steiger as of the open carriage and the motorized yarn carriers are further optimized on the VEGA 3.130 for this application. The take-down is adapted for improved performance on 3D and complex knitting shapes. The optimized cam-box increases even more the productivity of a highly complex products. The gear rack clamps assure the fixation as well as the clear cut of a great variety of fibres. The VEGA 3.130 is equipped with an interface S-Touch 2.0. User-friendly and easy to learn, it allows a remote control of selected functions and a remote troubleshooting of the machine.

La Vega 3.130 è la soluzione per la tessitura a maglia di materiali tecnici e compositi sviluppata dagli specialisti del nostro Stitch Lab. La distanza tra le fronture è regolata in funzione del prodotto del cliente per lavorare ad esempio delle sagome che sono in seguito solidificate. Un innovativo percorso dei fili consente di lavorare fibre tradizionali così come fibre semirigide senza danneggiare la qualità meccanica. Le peculiarità riconosciute di Steiger come il carro aperto ed i guidafili motorizzati sono stati ottimizzati sulla VEGA 3.130 per questa specifica applicazione. Il tiraggio è stato migliorato per permettere la tessitura a maglia di forme complesse in 3 dimensioni. Le piastre porta cammes aumentano la produttività di questi prodotti complessi. Le pinze a cremagliera consentono la presa ed il taglio dei fili del tipo più variato. La VEGA 3.130 è dotata dell'interfaccia utente S-TOUCH 2.0. Intuitiva e di facile utilizzo, permette il controllo e la soluzione degli arresti a distanza.

CONTROL PANEL S-TOUCH 2.0

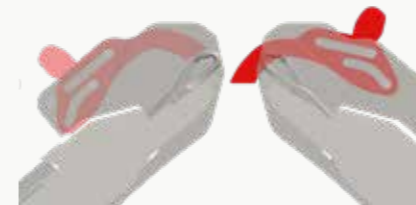


Controlled by 2 touch-sensitive LED ribbons, the design of the control panel brings maximum visibility and ergonomics. S-Touch 2.0 is so intuitive that he can be used by non-specialists. Linked to a network it offers the following performances:

- remote status of the machine parameters and production orders through network
- remote control of the machine parameters and production orders through network
- remote access from Steiger service department after authorization of the customer

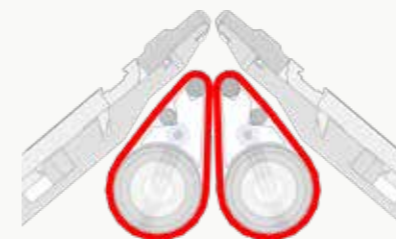
SINKER SYSTEM

With its path and form, the sinker system plunges to the needle bed opposite to the touch. This unique performance allows a tight knit but also to design very long floated yarn for intarsia or complex in-lay products. This function is programmable. During a knitting row it can be activated or deactivated several times according to the defined program.



TAKE DOWN

The patented friction take down can knit a wide range of exclusive patterns using the 3D method with circular knitting effects as well as horizontal cable and incorporated elements. These features which cannot be produced with a traditional take-down are here easy to achieve with a unique productivity and quality.



CLAMP AND SCISSORS FOR SEMI-RIGID YARNS



The new type of clamps ensures the fixation as well as the clear cut of a great variety of fibres. High intensity LED ribbons illuminate the needlebed and highlight the formation of the stitch.

OPEN CARRIAGE



The open carriage with direct threading allows knitting with any type of yarn at high-speed with reduced tension. The short yarn path between the cone and the needle allows a highly limited friction. This will form a unique stitch, whose attractiveness is especially appreciated by designers.

APPLICATIONS

SOLAR STRATOS



SolarStratos is a mission, initiated by Swiss eco-explorer Raphael Domjan. It aims to achieve the first solar-powered stratospheric flight at an altitude of more than 24,000 metres. With a wingspan of 24.8 metres and weighing in at 450kg, the tandem twin-seater will fly just like any other aircraft with an autonomy of 24h. The challenge is to gain weight everywhere. Each kg saved increases the altitude that can be reached. Steiger as official supplier of the project collaborates to knit 3D carbon fibers preforms. The preforms are then coated with resin and solidified in a mold. The resulting parts are ultra-light and highly resistant.

ETHZ



The KnitCandela project led by the ETHZ (Swiss federal institute of technology of Zurich) is a breakthrough of the utilization of the knitted preform in the architecture. KnitCandela is a thin, sinuous concrete shell built on an ultra-lightweight knitted formwork that was carried from Switzerland to Mexico in a suitcase. KnitCrete is a novel, material-saving, system for the casting of doubly curved geometries in concrete. KnitCrete formworks use a custom, 3D-knitted, technical textile as a lightweight, stay-in-place shuttering, coated with a special cement paste. Compared to conventional weaving, knitting minimises the need for cutting patterns to create spatial surfaces.