

VEGA 3.90 m

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
Serré de mailles à changement électronique sans limite à tout instant
Sélection Steiger électronique des aiguilles

FONTURES

Longueur utile 90 cm (130 cm option)
Module presse-maille sur fonture rapportée
Pince-fil, coupe-fil et pique-fil intégré
Chevalement sélectif +/- 42 mm
Avec possibilité de corrections
Jauge E14 équipées d'aiguilles talons noyés à report fraisé
Sélection par une seule clavette mono-sélecteur
Auto-nettoyage par aspirateur Venturi
Peigne de tirage

GUIDE-FILS

8 guide-fils motorisés (16 option)
Centre externe 8 arrêts aux nœuds (16 option)
Programmation automatique du pilotage des guide-fils
Dispositif trameur unique
Vaniage de haute qualité réalisable par guide-fils multiples
Distributeur de fil jeteur type Argyle (option)
Kit support fournisseurs avec alimentation intégrée (option)

POSSIBLITÉS / PERFORMANCES

Tous types de jacquards et structures
Formes, finitions, divers, chaînettes, col intégré, intarsia façon Steiger
Reprise de tricotage sur aiguilles vides
Flétrage illimité grâce à son tirage actif à 25 mm de la formation de maille
Model Version 9 mise à jour, assistance et maintenance cumulées (option)
Model + 2.0 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-diagnostic
Mémoire machine 1 GB
Interface utilisateur par écran tactile couleur 10"
Clé USB pour transfert et sauvegarde des programmes
Maintenance préventive
Contrôle dimensionnel DTC (option)
Netcontrol : gestion de la production (option)
Duoknit : tricote 2 articles sur la fonture (option)

DIMENSIONS/CONSOMMATION

Longueur : 2510 mm
Hauteur : 1420/2200 mm
Largeur : 790/1320 mm
Poids : 850 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 box 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 90 cm (130 cm option)
Sinker module on additional needlebed
Yarn clamps / scissors and yarn picks integrated
Selective racking over +/- 42 mm with possibility of correction
Gauge E14 equipped with grooved retracted transfer needles
Mono-selector
Auto cleaning by venturi
Comb Steiger patent

YARN CARRIERS

Equipped with 8 motorised yarn carriers (16 option)
Outside creel with 8 yarn tensioners (16 option) independently programmable yarn carriers
Unique device for in-lay for technical articles
Plating with 2 yarn carriers
Yarn carriers type "Argyle" (option)
Kit for supporting yarn feeding unit (option)

POSSIBILITÉS / PERFORMANCES

All types of jacquard and structures
Shapes, finishes, divers, chainettes, integrated collar, intarsia style Steiger
Resumption of knitting on empty needles
Flanging unlimited due to active thread tension at 25 mm from the mesh formation
Model Version 9 update, assistance and maintenance (option)
Model + 2.0 update, 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
Preventive maintenance module
Dimension and Tension Control: DTC (option)
Netcontrol production control (option)
Duoknit : 2 samples produced on the same needle-bed (option)

DIMENSIONS

Length: 2510 mm
Height: 1420/2200 mm
Width: 790/1320 mm
Weight: 850 kg
Power consumption: AC 400V +10% ; 50Hz ; 1.5 KW

CARRO CON PIASTRE PORTA CAMMES

Macchina a una testa a carro aperto, con alimentazione diretta del filo.
Porta-came porta camme 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 90cm (130 cm opzione).
Sinker su fonture supplementare
Pinza, forbice e prendi filo integrati.
Spostamento selettivo +/- 42 mm con possibilità di correzione.
Fineze E14 con ago fresato a tallone annegato.
Selezione con una sola platina monoselettore.
Autopulizia con aspiratore Venturi.
Pettine di tiraggio.

GUIDAFILI

8 guidafili motorizzati orizzontalmente. (16 opzione)
Cantra esterna di 8 tensioni (16 opzione).
Programmazione automatica del posizionamento dei guidafili.
Esclusivo dispositivo tramatore
Vanis 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.
Rimagliaatura su aghi vuoti.
Fléchage illimité grazie al tiraggio attivo a 25 mm. dalla formazione delle maglie.
Model Versione 9 con aggiornamenti, assistenza e manutenzione (opzione).
Model + 2.0 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

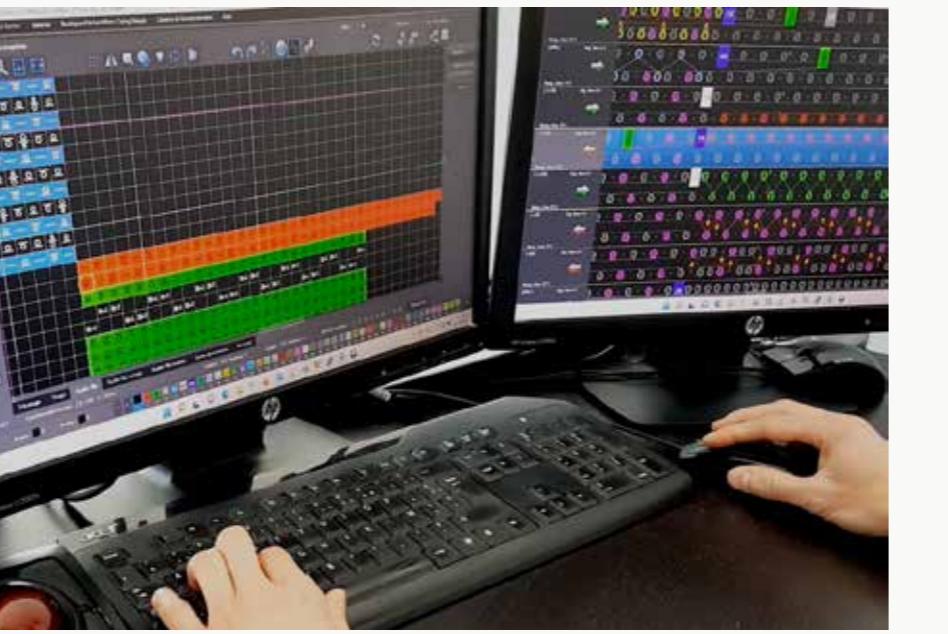
S-Touch 2.0
Tutte le sicurezze necessarie per arrestare la macchina in caso di rottura di filo, nodi, choc, sovraccarico, salva aghi, etc.
Batteria di salvaguardia del programma (in caso di black-out elettrico).
Salva-aghì retrattile.
Scheda gestione collegamento in rete 10/100 Mbps.
Programma di autodiagnosica.
Memoria macchina 1 GB.
Interfaccia utilizzatore tramite touch-screen da 10" a colori.
Uscita per chiave USB.
Modulo di manutenzione preventiva
Controllo dimensionale ad anello chiuso: DTC (opzione).
Netcontrol: gestione della produzione (opzione).
Duoknit: lavora contemporaneamente 2 articoli sulla frontura (opzione).

DIMENSIONI/CONSUMI

Lunghezza: 2510 mm
Altezza: 1420/2200 mm
Larghezza: 790/1320 mm
Peso: 850 kg
Potenza: AC 400V +10% ; 50Hz ; 1.5 KW

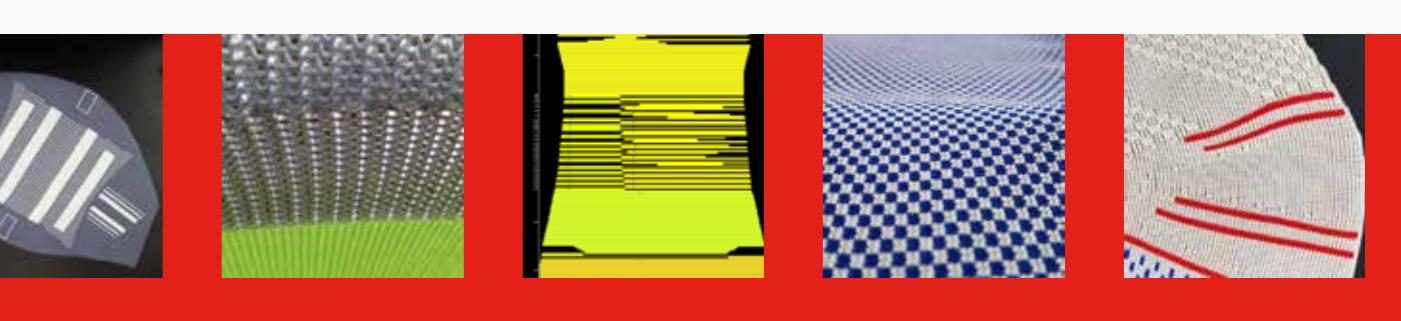
MODEL+ 2.0

STEIGER offers new software solutions to optimize the output of your machines. Discover MODEL+ 2.0: 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. The key features include intarsia, plating switch, and jacquard auto-processing, which enable the user to maximize the advantages of motorized yarn guides as well as modern and user-friendly drawing tools.



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Flat knitting machine



VEGA 3.90 m

INNOVATION ON THE VEGA M

Short cam-box, Sinker module with guided canal

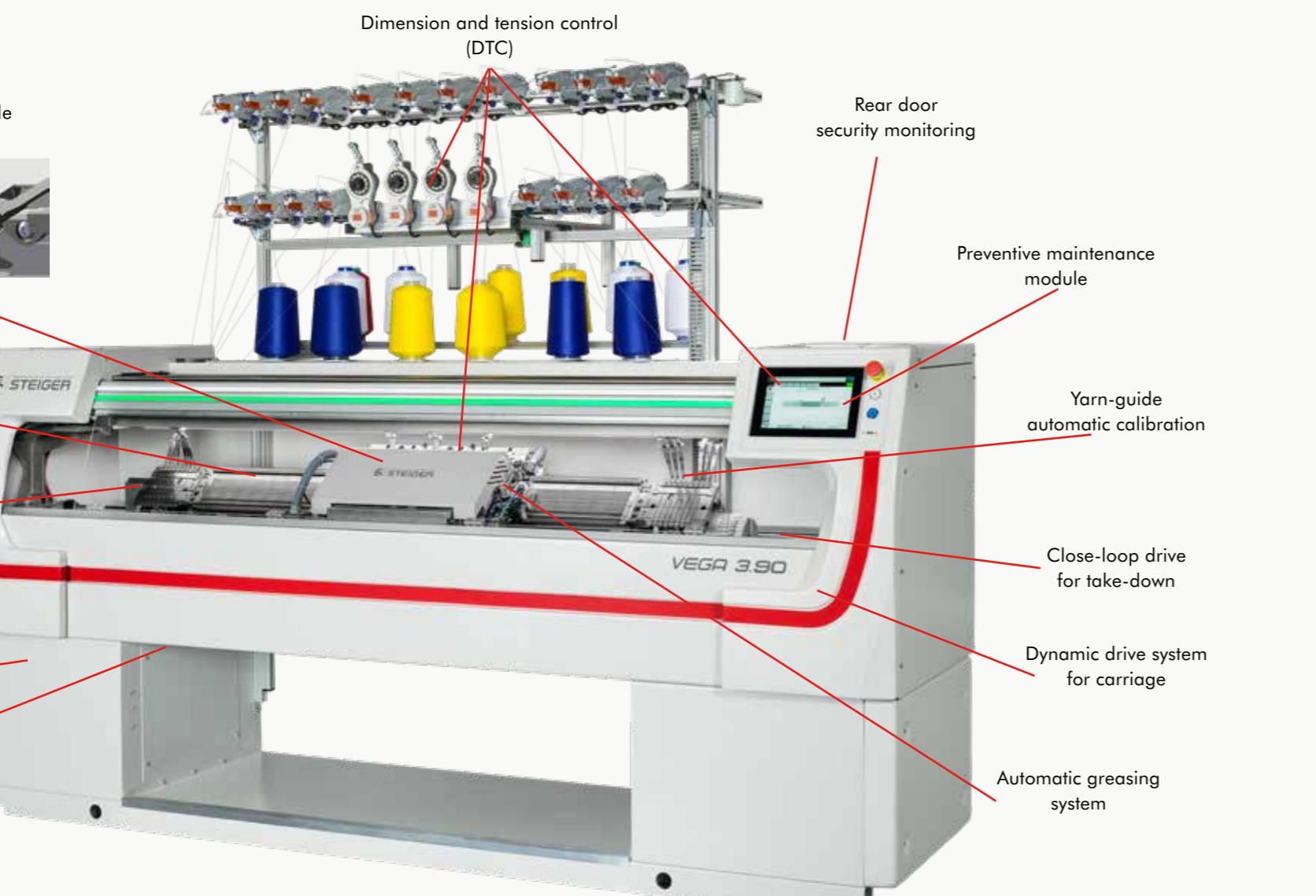


Sinkers guided inside a sinker bed

Clamps with gears

Stiffened frame

Ionization antistatic system



The machine is available with 130 cm or 90 cm E14 needle-bed with 2 or 3 knitting systems:
VEGA 3.130 M VEGA 3.90 M VEGA 2.130 M VEGA 2.90 M



La Vega Medical est la solution dédiée au tricotage d'articles orthopédiques ou médicaux développée par les spécialistes de notre Stitch Lab. Avant l'apparition de la Vega M, les machines pour le tricot médical étaient adaptées de modèle pour la mode. Avec la Vega M, la décision a été prise de concevoir un produit exclusivement dédié à cette application spécifique utilisant des fils élastiques tramés. Ce choix a permis à l'équipe de conception de sélectionner toutes les solutions techniques optimales sans concession pour d'autres applications. Le résultat est une augmentation importante de la performance de la machine avec une amélioration de chaque facteur composant le TRS (taux de rendement synthétique) = disponibilité x productivité x conformité.



The Vega Medical is the dedicated solution for knitting of orthopedic or medical items developed by the specialists in our Stitch Lab. Before the presentation of the Vega M, medical knitting machines were adapted from fashion models. With the Vega M, the decision was made to design a product exclusively dedicated to this specific application using in-lay elastic yarns. This choice has allowed the design team to select all the optimal technical solutions without concession to other applications. The result is a significant increase in machine performance with an improvement in every factor that compose the Overall Equipment Efficiency = availability x productivity x compliance.



Die Vega Medical ist die Lösung für das Stricken von orthopädischen oder medizinischen Artikeln, die von den Spezialisten in unserem Stitch Lab entwickelt wurde. Bevor es die Vega M gab, wurden medizinische Strickmaschinen von Modellen für die Modebranche adaptiert. Mit der Vega M wurde die Entscheidung getroffen, ein Produkt zu entwickeln, das ausschließlich für diese spezielle Anwendung bestimmt ist und elastische Rastergarne verwendet. Diese Entscheidung ermöglichte es dem Designteam, alle optimalen technischen Lösungen ohne Zugeständnisse für andere Anwendungen auszuwählen. Das Ergebnis ist eine erhebliche Steigerung der Maschinenleistung mit einer Verbesserung jedes einzelnen Faktors, der den Gesamtanlageneffektivität (GAE)= Verfügbarkeit x Leistungsgrad x Qualitätgrad ausmacht.



Vega Medical è la soluzione dedicata alla lavorazione a maglia di articoli ortopedici o medicali sviluppata dagli specialisti del nostro Stitch Lab. Prima della Vega M, le macchine per maglieria medicale erano adattate dai modelli per la moda. Con Vega M si è deciso di progettare un prodotto esclusivamente dedicato a questa specifica applicazione, utilizzando filati elastici trattati. Questa scelta ha permesso al team di progettazione di selezionare tutte le soluzioni tecniche ottimali senza concessioni ad altre applicazioni. Il risultato è un aumento significativo delle prestazioni della macchina con un miglioramento di tutti i fattori che compongono il "Efficienza complessiva della risorsa produttiva" = disponibilità x produttività x conformità.

INCREASED PERFORMANCES



Short, light, the **cam-box** has been designed exclusively for medical application. Combined with the new **dynamic electronic drive system**, the acceleration and deceleration performances of the cam-box have also been enhanced. In order to support this increased carriage reactivity, Steiger has also strengthened the **stiffness of the main frame**.

CLAMP AND SCISSOR

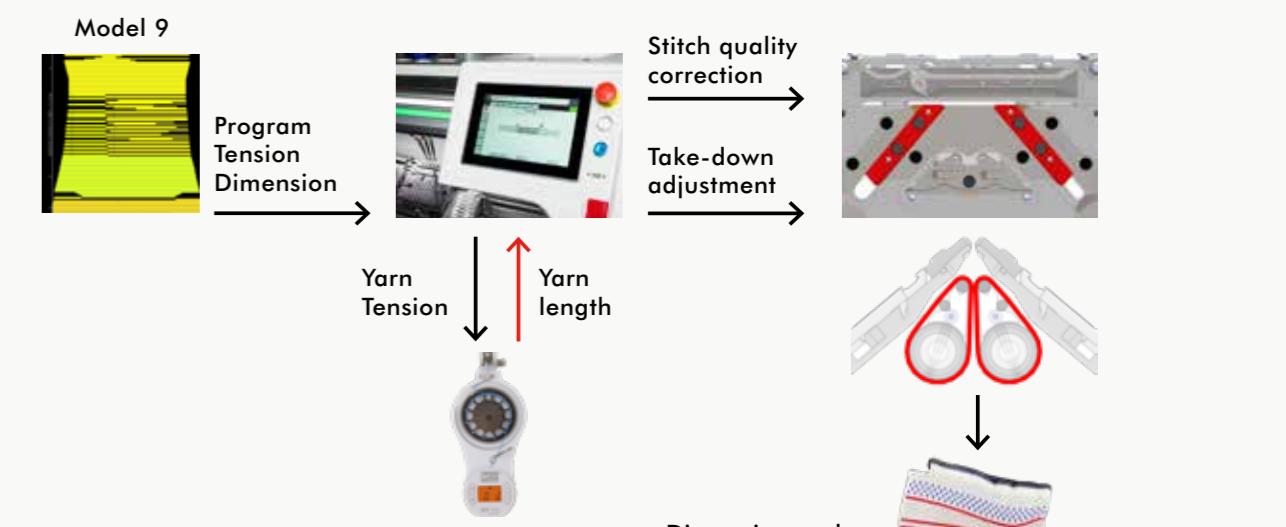


The new clamp and scissor system ensures that the yarns of the yarn-carriers are independently gripped. Gears prevent the yarn from escaping and guarantee the correct yarn gripping or cutting. High intensity LED ribbons illuminate the needlebed and highlight the formation of the stitch.

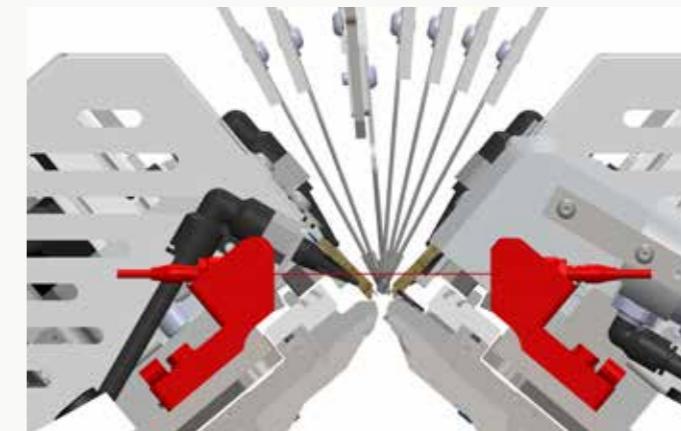
DTC: ENSURING ENHANCED PRODUCT QUALITY

The Vega M includes a system called Dimension and Tension Control (DTC) to ensure the geometry and the compression class of the final article. It is based on 4 systems: Remote control of the yarn tension - Measure of absorbed yarn length (LFA) – Stitch quality correction - Take-down drive using a close loop control.

The compression class, which is ensured through the use of the elastane yarn and the dimension of the final product, are programmed directly by Model 9. In order to secure dimensions adapted to the patient limb, the DTC system calculates the yarn length required to knit each zone of the article. The variation of the stitch quality sets the vertical stitch dimension and guarantees the exact size of the custom made orthotics. The Dimension and tension control (DTC) therefore guarantees that the final article corresponds to the specification required by the therapist.



ENLARGED AVAILABILITY



Steiger has also developed a new software module called **Preventive Maintenance** which helps to limit the unplanned machine stops. The machine indicates when the necessary maintenance actions must be done and by whom. Information is available not only on the machine itself but also at the production manager's workstation, making it easier to prepare the maintenance program for the relevant team. In order to limit interventions on the machine, Steiger has also included some innovative elements such as the **automatic greasing system** for the needle-bed and the **integrated ionization system** that makes the yarn antistatic and thus further reduces the working time for the operators.

The **automatic calibration of the yarn-guides** using sensors installed on the cam-box allows continuous monitoring of the yarn-guide position accuracy.

SINKER SYSTEM



The main innovation arises from a completely new sinker system. The perfect guiding of the sinker using a sinker bed and a new activation system has resulted in an optimal maintaining of the elastic yarn during the creation of the stitch. No elastane is knitted together with the base yarn even with an increased production speed. This function is programmable. During a knitting row it can be activated or deactivated several times according to the defined program.