

## **Product overview** for knitting machines

## Practical help always at hand: our App

The MEMMINGER-IRO APP is available for IOS and Android based mobile devices in the respective stores. In the APP you will find important and useful product information such as product brochures and product videos.

Via the APP you can easily contact MEMMINGER-IRO or the responsible country representative at any time. It is easy to use and offers many useful functions.

Curious? - To quickly install the MEMMINGER-IRO APP, simply scan the QR Code below!



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# MEMMINGER-IRO

Advanced Knitting Technology





We are a pioneering company and the world market leader in process technology for yarn feeding, control systems and lubrication technology for knitting machines.

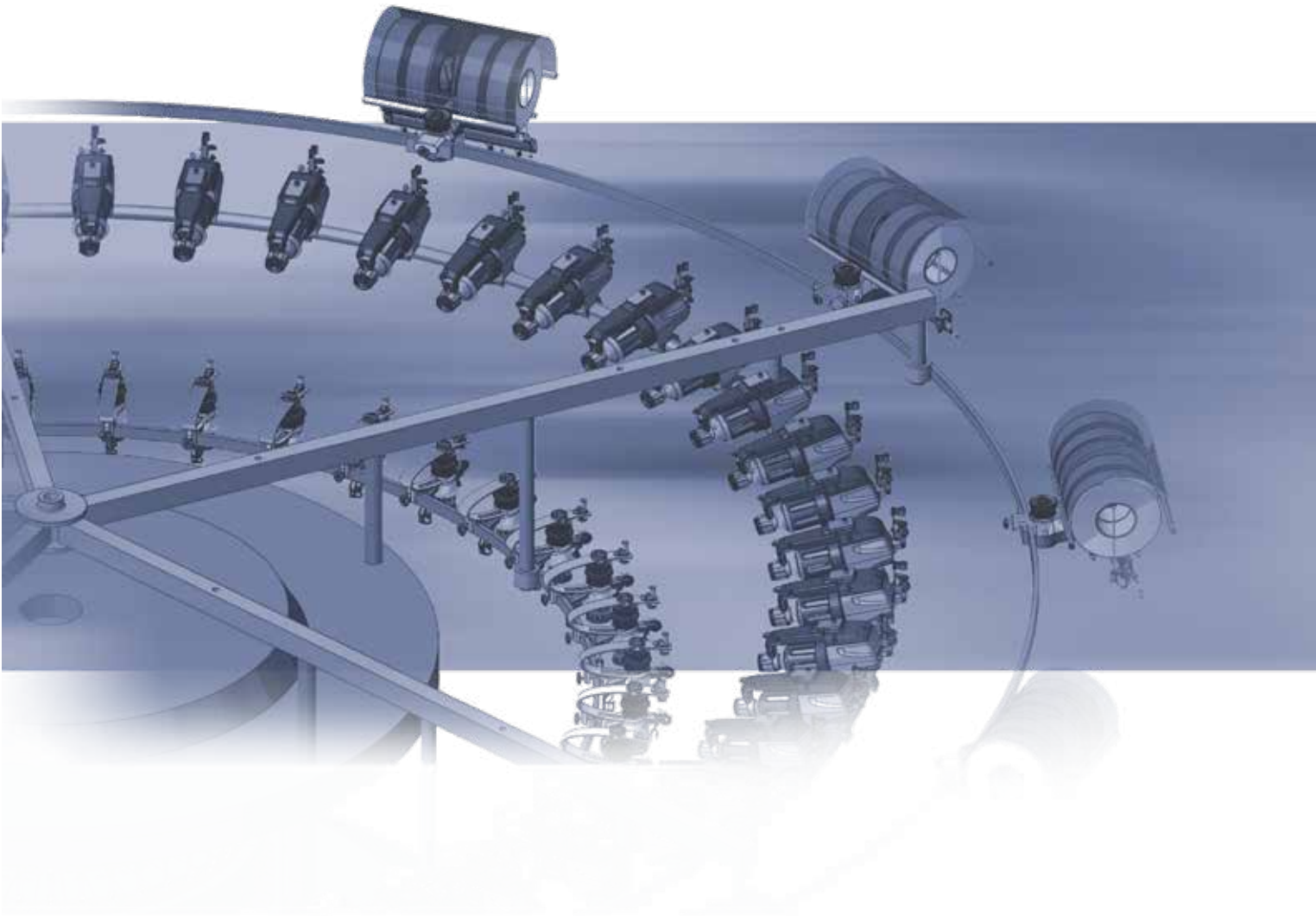
The high quality of our products over 60 years has made us a recognised supplier throughout the textile industry. We intend to further develop this position in the future.

As an innovative medium-sized company active in international markets with more than 400 employees throughout the world, we develop, produce and sell our high-quality products in more than 100 different countries.

MEMMINGER-IRO is part of the VAN DE WIELE Group

## Product overview

for large circular knitting machines

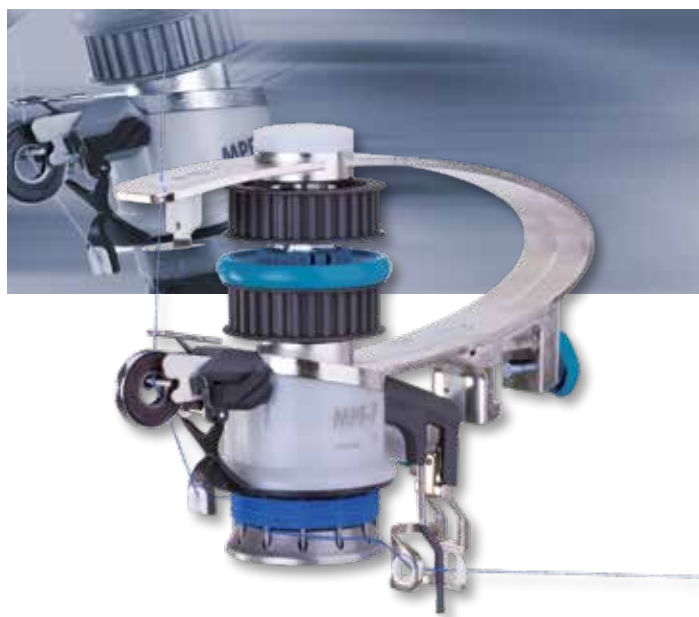


## Product overview

for large circular knitting machines

## MPF P

Positive feeder: even better



The many new design features of the MPF P considerably increase the productivity of knitting machines. The device is complete with the tried-and-tested, self-cleaning vibration tension, which reliably prevents false stoppages. Our design engineers paid particular attention to making threading easier and faster. The colour-change stop light is an integral part of the feeder body and features the latest LED technology. The light is clearly visible from any operator position. The enclosed feeder body and the contactless stop motion system ensures immediate, reliable machine stoppage in the event of yarn breakages. The unit can be connected to a 12/24 V AC/DC shutdown current circuit. This makes it suitable for use on a wide variety of knitting machines. The MPF P guarantees the trouble-free production of faultless fabric on your large diameter circular knitting machines.



## MPF L

Positive Feeder: Low tension, uniform feed from yarn bobbin to needle



Smooth, 100% positive yarn feed is a major factor in ensuring fabric quality and fault-free fabric. The MPF L features a self-cleaning tensioner ring on the yarn infeed tensioner and a closed, low-wear winding reel. Other features include a built-in anti-filamentation device and yarn outfeed tension values lower than 1 cN.

The design specification for the MPF L stipulated that the unit must be easy to operate, require little maintenance, must feature low wear components and have a long life cycle. The specification has been met in full.



## Product overview

for large circular knitting machines

### MER 4

Elastan Roller: Process-safe working with lowest yarn tensions



The MER 4 is a universal elastane roller designed for the positive feeding of plain elastane yarn to large-diameter circular knitting machines.

This new version of the elastane roller has been developed to process plain elastane at even lower yarn tensions.

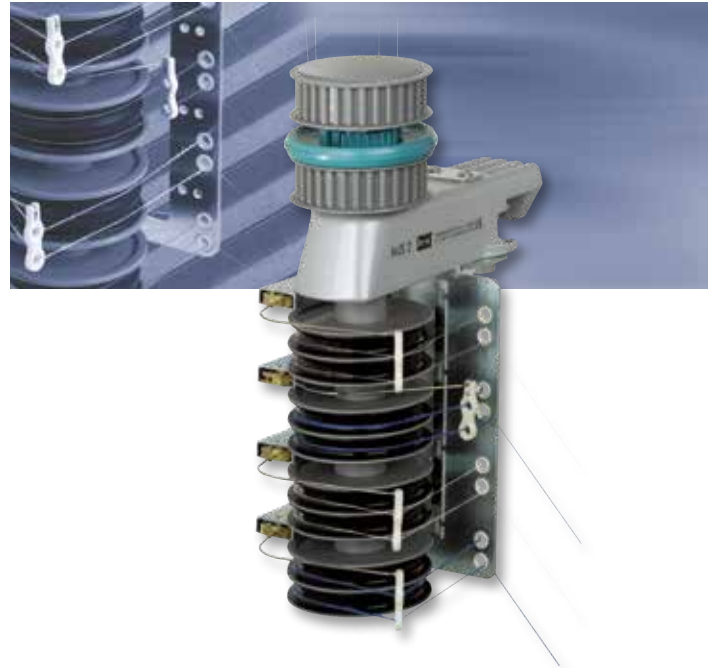
The shutdown units have no electrical components and are easy to clean.

Considerable increases in production rates can be obtained by fitting the cost-effective optional cover.



### MJS 2

Striper Feeder: Improved knitted structure. Increased machine efficiency.



The MJS 2 striper feeder works on the friction principle. It is designed for use with large-diameter circular knitting machines fitted with mechanical or electronic striper units used for plain or Jacquard fabric. It features yarn feed support which improves knit structure quality and increases machine efficiency. The MJS 2 is available in two versions. One designed for circular knitting machines rotating in a clockwise direction and the other made for machines rotating counterclockwise. The MJS 2 is also available with a positive yarn wheel as an option.

The feeder ensures uniformity of the pattern repeat lengths in knitted fabrics. This helps to reduce reject rates and thus cuts production costs.





## KNITSTORE K52

Storage feeder: Functional, easy to maintain and operate



The storage feeder KNITSTORE K52 with vertical winding body and yarn separation is used for yarn feeding on knitting machines with regular and irregular yarn consumption. The feeder is equipped with CAN BUS communication and is operated with 57 V DC.

The direction of rotation of the winding disc can be adjusted according to the yarn to be processed (S- or Z-twist). The yarn quantity is controlled by a newly developed optical-mechanical sensor system.

A circumferential LED light strip provides information about the current operating status of the feeder. The tool-free input tensioner with modular structure allows a consistent operating procedure in different mounting positions of the units.

With the GTN, the units can be grouped and the yarn consumption can be determined via the integrated yarn length measuring system LMS.



## MSF 3 ATC

Storage feeder: high-dynamic yarn tension controlling



Origin of the storage feeder MSF 3 ATC is the well-known MSF 3 CAN, which is combined with the high-dynamic yarn tension controlling brake ATC (Active Tension Control). The control unit GTN allows the central set up of all units. The yarn tension regulating system ensures that the output tension of all MSF 3 ATC remain constant at the preset value, independent from external factors like size of the bobbins or quality of the yarns.

One feature of the ATC is the very high dynamic of the system. The yarn tension is permanently measured by a yarn tension sensor. The high-dynamic microprocessor supported controller in connection with the electronically adjustable brake ensures that deviations in yarn tension will be corrected in milliseconds. Yarn tension peaks which are caused due to irregularities in the yarn are compensated with the help of the ATC system.

The measuring and setting of the yarn tension at the feeder during setting up the fabric quality is no longer necessary. There is also no need to check the yarn tension during the knitting process or when changing the bobbins.



## Product overview

for large circular knitting machines

### SFE

Storage Feeder: Constant yarn tension, fewer knitting faults



The SFE storage feeder is designed for machines with variable yarn consumption and guarantees the correct tension when knitting with any type of yarn. The unit reduces the percentage of faulty fabric and increases machine efficiency.

The speed of the DC motor is microprocessor controlled. Sensors monitor the size of the yarn store on the winding reel and ensures that this stays constant. The yarn store can be set for various yarn types and counts. Various tensioner rings for regulating the yarn tension are also available.



### EFS 800

Electronic Yarn Feeder: Constant or remote controlled yarn tension



The EFS 800 electronic yarn feeder is designed for the feeding of elastic and non-elastic yarns at a constant tension into the knitting machines. A sensor measures the outgoing yarn tension and regulates the feed speed accordingly. The required yarn tension level is preset by using the keypad. The display shows the actual and preset values for the yarn tension in cN, and the current yarn speed in metres per minute.

The EFS 800 can operate in two modes:

In the Constant Yarn Tension mode, the feeder regulates the yarn tension so that it remains the same as the preset value, even when the machine is stationary.

In the Remote Control of Yarn Tension mode, the yarn tension is increased or decreased as demanded by a PCB board which is communicating with the knitting machine.



## PULSONIC 6

Pressure oiler: Optimum lubrication for needles and lifters



The PULSONIC 6 lubrication system precisely meters a small amount of oil per pulse to ensure that oil is only distributed to the points required. It is possible to individually program the amount of oil fed to each lubrication point. The system greatly reduces oil consumption. The external surface of the knitting machine remain dryer and the number of oil spots on the knitted fabric is greatly reduced.

The PULSONIC 6 is available with 12 or 24 oil outlets. The unit is set using the buttons alongside the easy-to-read display.

On knitting machines equipped with a CAN bus capable machine controller, the PULSONIC 6 lubrication system can be set directly via the machine controller. The machine control must be prepared for this by the knitting machine manufacturer.



## Product overview

for large circular knitting machines

### PROJECTILE LF

Spray oiler with lowest compressed air consumption and uniform lubrication



The PROJECTILE LF ensures uniform lubrication for all knitting components, incl. needles, cams and sinkers. The patented nozzle construction separates the air-oil mixture into air and droplets of oil. This means that the oil only goes to the components requiring lubrication, so avoiding the formation of oil mist in the knitting workshop.

This unit impresses with its outstanding economy and range of integrated functions. The use of compressed air is reduced by 30-50% compared with conventional systems on the market.

The many features of the unit include a safety pressure valve, a float switch for switching off the machine when the minimum oil level is reached, an integrated pressure gauge to ensure optimum pressure in the PROJECTILE LF, an easily accessible oil drain screw and a pressure-relief valve. An optional separate maintenance unit can also be connected.



### PROJECTILE 419F

Uniform and economical lubrication thanks to patented nozzle system



The PROJECTILE 419F ensures uniform lubrication for all knitting components, incl. needles, cams and sinkers. The patented nozzle construction separates the air-oil mixture into air and droplets of oil. This means that the oil only goes to the components requiring lubrication, so avoiding the formation of oil mist in the knitting workshop.

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## MNC 3

Needle Controller: Advanced technology cuts the percentage of second-quality fabric



Broken and bent needle heads are unavoidable. The rapid detection of faulty needles is therefore of utmost importance. The MNC 3 Needle Controller system detects damaged needles rapidly, effectively and reliably. The controller can be used on single and double jersey knitting machines, on striper fabric, drop stitch pattern or jacquard machines. The optical needle sensor detects broken and bent needle heads in lightning quick time and will stop the knitting machine immediately.

The MNC 3 system consists of the controller unit, a machine cycle sensor and up to two needle sensors. The controller has three operating modes for various applications. The system is programmed on the control unit. The status of the needle head is monitored by a fibre optic cable. The position of the bent or broken needle is displayed on the control unit.



## KNIT SCAN

Fabric Scanner: Full use of advanced electronics



Needle faults are expensive. The quicker they are detected, the more you save. The KNIT SCAN system detects needle line faults and holes and it stops the machine after detection of these faults.

The scanner is installed in a vertical position with a distance of about 15mm to the fabric. Faults are detected by using the light reflection principle. The light emitted by the scanner is reflected back by the fabric and the resulting signal received by the scanner is processed in order to detect faults. The scanner automatically adjusts to the surface of the fabric currently being scanned. It can be used for different single jersey circular knitting machines producing various types of plain fabrics.

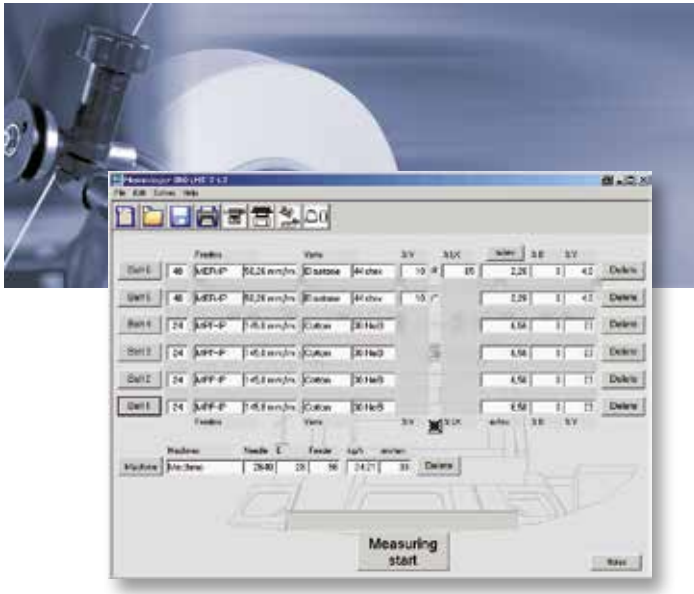


## Product overview

for large circular knitting machines

### LMT 7

Multifunction Tester: Monitors, transmits, informs, displays, saves



The LMT 7 is an electronic, software-based yarn infeed meter. It collects and processes production data from circular knitting machines operating with continuous, positive feed of basic yarn with or without elastane.

The knitting machine, yarn and feeder data needed for processing are stored in the Machine List, Yarn List and Feeder List of the LMT 7 software. This enables the long and short term monitoring of production. It also makes it possible to reproduce various fabric qualities, even when transferring production from one machine to another. Knitting calculations are simpler and quicker because the tester gives an immediate read-out of yarn consumption. Eliminates the need for time consuming laboratory testing.



### MLT WESCO

Yarn Meter: Portable yarn meter for measuring yarn consumption, yarn speed and yarn tension



The MLT WESCO is an electronic tester for measuring the speed of running yarn. It uses the speed measurement to calculate yarn length. The meter also displays the Normal, Average and Peak values for yarn tension. The MLT WESCO also displays the machine speed. All test values are shown on an easy to read back-lit LCD display.

This battery-powered, hand-held tester is easy to use and is ready for immediate use.



## YTM

High precision yarn tension meter



The YTM is a digital yarn tension meter for an easy way to measure the actual yarn tension of knitting machines. In an extended mode it can display the average and peak tension of the measurements.



## MRA 2

Motor drive belt: Improved construction, better fabric quality and higher performance



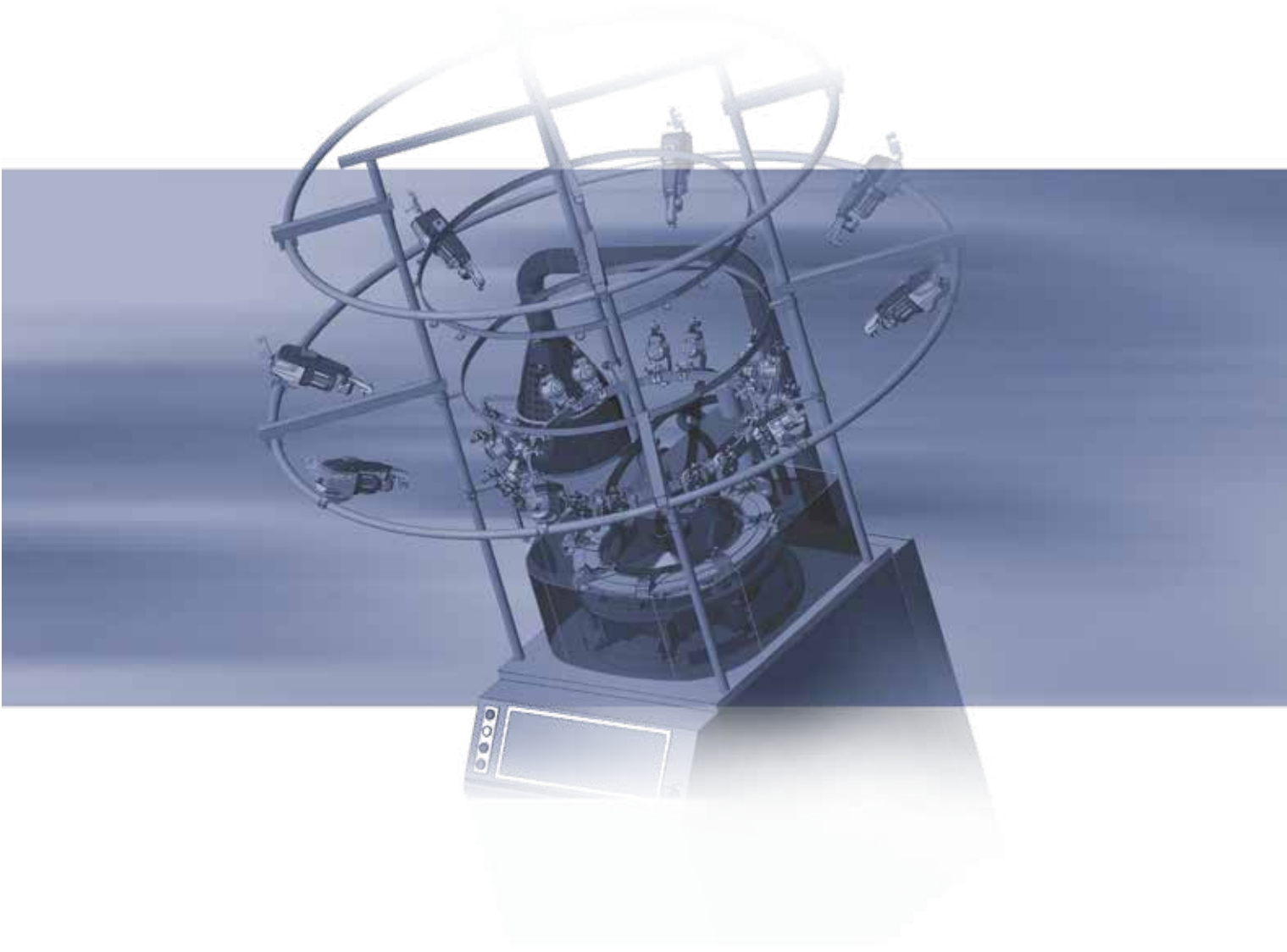
The MRA 2 motor drive belt completely replaces the quality adjustment pulley assembly. Servomotors set new standards. Drive belts are now driven separately with each belt having its own servomotor. Motors are set and controlled from a central terminal.

The MRA 2 is designed for use on all circular knitting machines. With MRA 2 setup times are greatly reduced to as little as a tenth of the time needed previously. Fabric quality changes can be made at any time and can be performed by unskilled personnel. Machine downtime is reduced because belts now last longer and require changing less frequently. Fabric quality is improved and article reproducibility is even more accurate.



## Product overview

for seamless machines, sock knitting machines and hosiery knitting machines



## Product overview

for seamless machines, sock  
knitting machines and hosiery  
knitting machines



## KNITSTORE K52

Storage feeder: Functional, easy to maintain and operate



The storage feeder KNITSTORE K52 with vertical winding body and yarn separation is used for yarn feeding on knitting machines with regular and irregular yarn consumption. The feeder is equipped with CAN BUS communication and is operated with 57 V DC.

The direction of rotation of the winding disc can be adjusted according to the yarn to be processed (S- or Z-twist). The yarn quantity is controlled by a newly developed optical-mechanical sensor system.

A circumferential LED light strip provides information about the current operating status of the feeder. The tool-free input tensioner with modular structure allows a consistent operating procedure in different mounting positions of the units.

With the GTN, the units can be grouped and the yarn consumption can be determined via the integrated yarn length measuring system LMS.



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## Product overview

for seamless machines, sock knitting machines and hosiery knitting machines

### EFS 920

Electronic Yarn Feeder: Exact constant yarn tension during reciprocation process



The EFS 920 is the first yarn feeder with an integrated yarn take up system for elastic and non-elastic yarns.

The EFS 920 can be used with sock and hosiery machines, seamless machines and flat knitting machines. It extends the operating range of these machines and eliminates the use of complicated mechanical yarn take up systems.

Our yarn take-up maintains the same, precise yarn tension in both the forwards and reverse directions. Mechanical systems do not provide this level of precision.

Yarn tension and yarn speed are electronically controlled and adjusted rapidly with a high degree of precision. These two parameters are shown on the high-contrast display at all times.



### EFS 800

Electronic Yarn Feeder: Constant or remote controlled yarn tension



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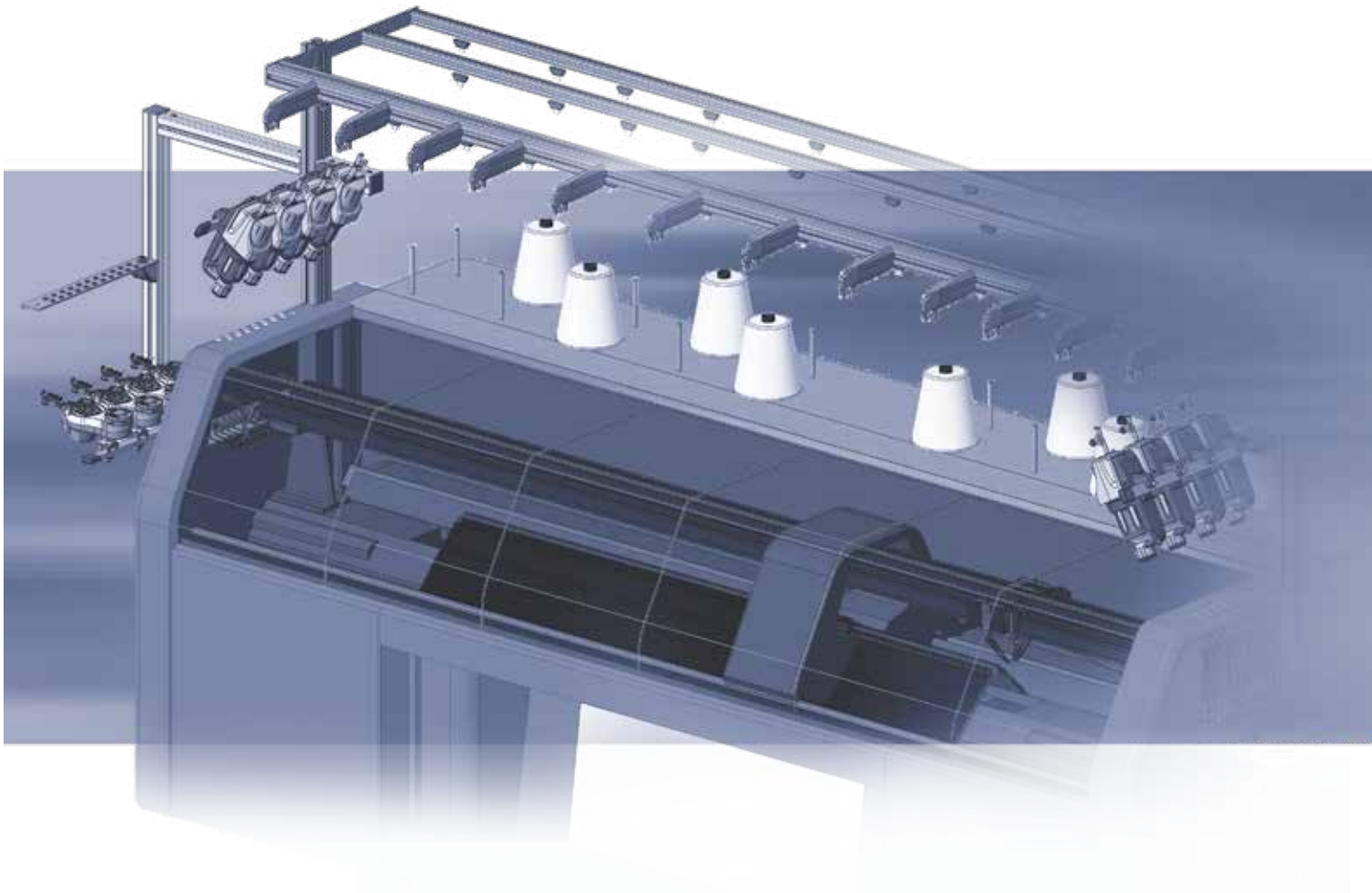
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**Product overview**  
for flat knitting machines



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## EFS 700

Electronic Yarn Feeder: Controlled feeding of elastic yarns on flat knitting machines



The EFS 700 electronic yarn feeder is designed for the feeding of elastic yarns on flat knitting machines, at a constant tension into the knitting machines. A sensor measures the outgoing yarn tension and regulates the feed speed accordingly. The required yarn tension level is preset by using the keypad. The display shows the values for the yarn tension in cN, and the current yarn speed in metres per minute.

The controlled feeding of the elastic yarn enables a proper plating on flat knitting machines.

The constancy of length and width is significantly improved.





## Product overview

### Monitoring and Accessories

## Product overview

Monitoring and Accessories

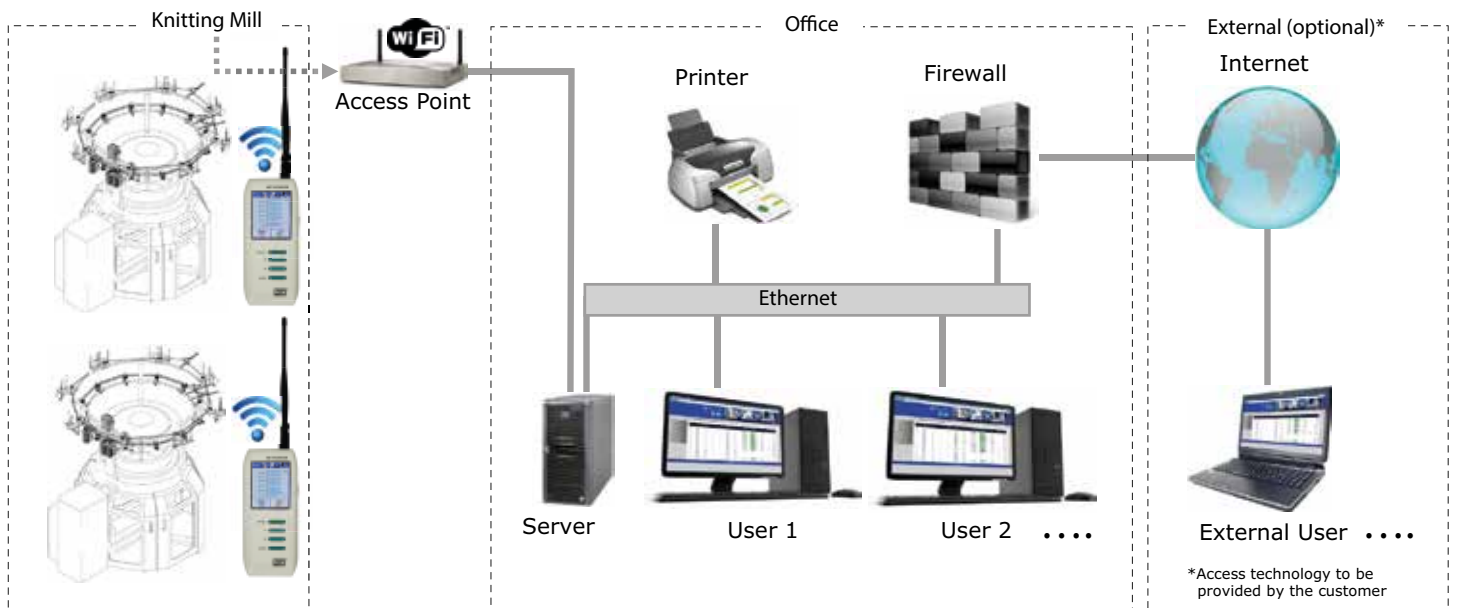
# NETWORKER

## MONITORING SYSTEM

The wireless solution to monitor and control your knitting process



- The NETWORKER MONITORING SYSTEM is a complete system to control production and programming of the machine parameters.
- This package is composed of
- NETWORKER MONITORING SOFTWARE which collects data from the machines, shows real time status, stores information in a data base, offers different statistical views,
- The system handles articles and supports production management. All information is accessible by standard Internet browser available on every PC, smartphone or tablet PC.
- The NETWORKER MACHINE PANEL is a touch panel which is easy to connect to all types and brands of machines. It permits the WIFI of the Knitting machine to the NETWORKER MONITORING SOFTWARE which is installed on a server PC.





## Toothed belt

Endless loop, no join type construction for unbeatable tensile strength



This toothed belt is designed to provide a constant, synchronised, slip-free drive to all the yarn feeders on the feeder ring. The belt can also be used to drive MPF/MER positive feeders and MJS striper feeders. The endless loop construction means that the belt has no bonding join. The belt has a very strong tension cord with 11 windings. These two features mean that the belt has an excellent tensile strength along its entire length. There are no weak spots. Our choice of materials and construction method have proved to be the only way to produce a high quality belt which guarantees smooth, trouble-free running and a very long service life.



## FLEXCREEL

Increased efficiency for all your machines



Larger bobbins can be installed on the Flexcreel, reducing downtime and increasing the efficiency of the knitting machine.

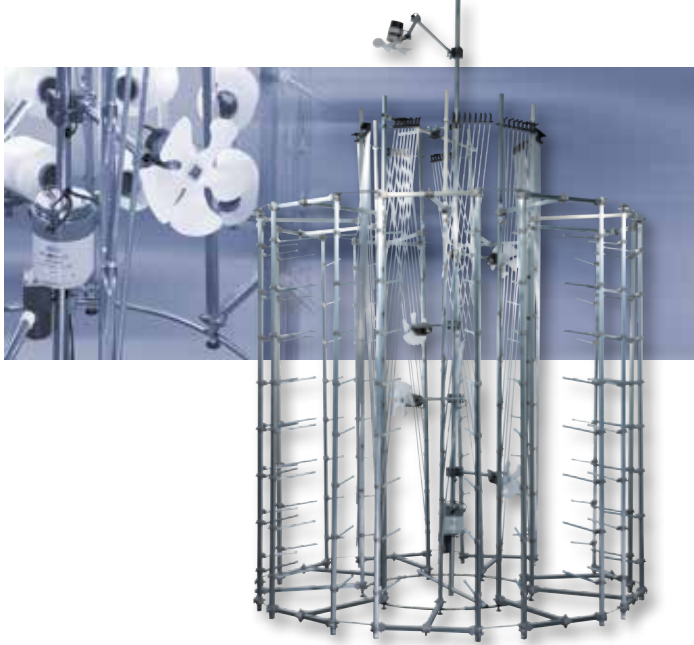
The square tubes of the Flexcreel are fixed to each other using a single type of universal coupling to ensure a solid fastening. This ensures that the segments are highly stable.

The Flexcreel is designed for a maximum bobbin load of 90 kg per segment.



## FLEXCREEL Circular

FLEXCREEL Circular combines the advantages of two systems



The Flexcreel Circular is a combination of Flexcreel and the Venti-Cleaner VCL 5 with 5 motors. The yarn is fed through tubes in order to prevent lint build-up.

The 90° elbow tube is designed to reduce yarn contact at this critical point to the minimum. This feature prevents the creation of high yarn tension on the yarn path from the bobbin to the feeder. Plastic or aluminium telescopic tubes are available.



## FILTERCREEL 3

Air jets remove creel lint and reduce knitting faults



As 30% of knitting room dirt is produced by the creel unit it is necessary to install a FILTERCREEL 3 enclosed yarn creel system. This is the most reliable way of ensuring clean yarn feed, improved machine output and fewer knitting faults.

The air jets clean the bobbin tops, surfaces and the yarn reserve. The air-borne lint is then sucked into a flat, floor-mounted filter. Any fluff and lint that has collected on the floor filter of the unit can be quickly and easily removed by the operator.



## ACCESSORIES

### Belt tensioners



Belt tensioners are used to pre-tension drive belts. They are an important factor influencing how long a toothed belt lasts. There are two types of belt tensioner: standard tensioners and spring-loaded tensioners. Both types guarantee optimum pulling power and lengthen the time between belt changeovers.

### Adjustment pulleys



Our adjustment pulleys are made from solid steel. With an easy-to-read scale they enable fine, precision adjustment. A range of diameters are available from 175 to 280 mm and there are versions for one or two drive belt levels. Drive shaft diameter 17 mm and 19 mm.

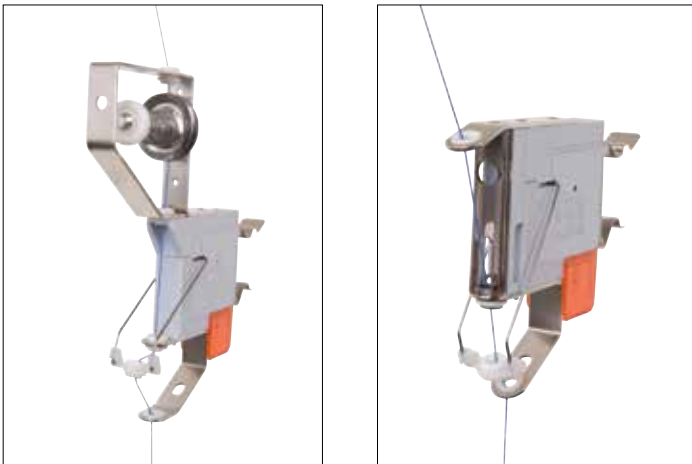
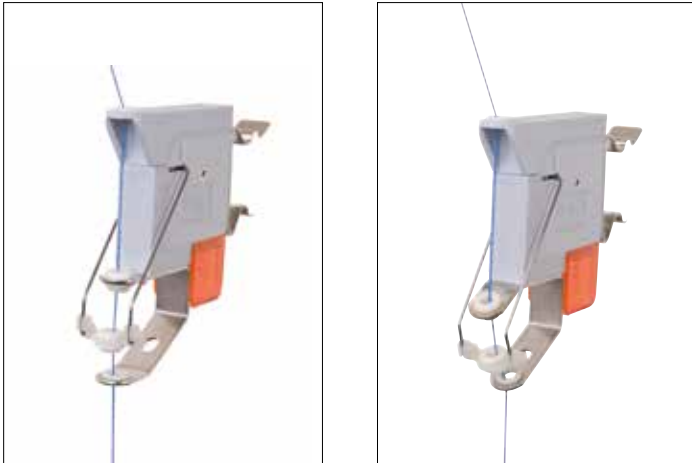
### VCL 5 IQ - Venti-Cleaner



The VCL 5 IQ system ensures that the knitting machine remains absolutely clean during the production process. The VCL 5 IQ system increases knitting machine efficiency because it prevents the build-up of contamination and deposits which might otherwise stop the machine. The VCL unit consists of a slip ring box, a support arm and electric fans. The slip ring box feeds a continuous power supply to the fans and is available with and without a motor power drive. Various support arm lengths are available. The fan angle can be adjusted for optimum cleaning. Various fan diameters are available.

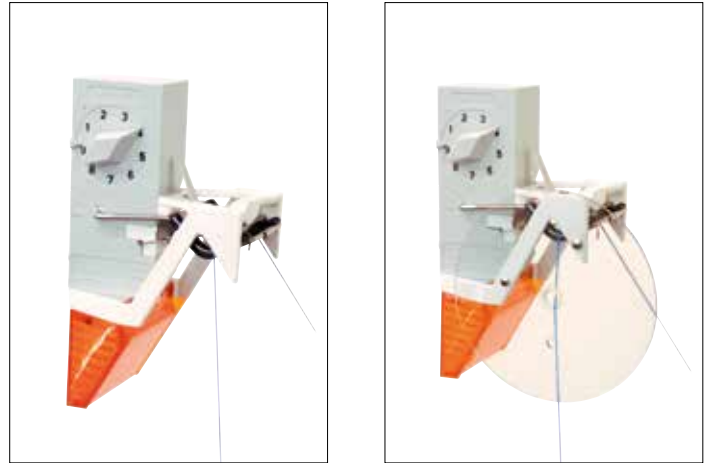
## ACCESSORIES

### UFW - Lower yarn detector



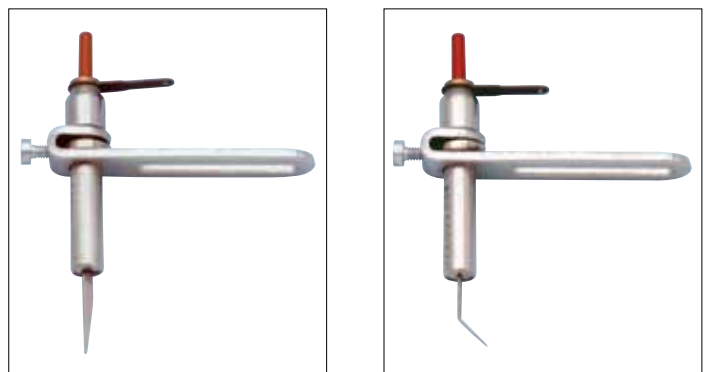
The lower yarn detector is a stop device positioned between the yarn feeder and the knitting point and is used, for example, on striping machines as an outfeed stop device. Versions for vertical and inclined yarn feed are available. The lower yarn detector is modular and can be fitted with yarn trappers to prevent false stoppages, various tensioners and other devices.

### OFW - Top yarn detector



The top yarn detector is the first yarn monitoring point after the bobbin on the path to the knitting machine. It can be installed on conventional bobbin stands above the bobbins or on the side creels. The upper yarn detector not only detects yarn breaks but will also detect snatching or jamming of the yarn. This feature prevents yarn breakages.

### NW - Needle detector



The needle detector detects closed needle latches, broken needles and fabric waste caused by broken needle latches.

# QUALITY

Consultancy and service  
in all markets in the world

Innovative process control incorporating the very latest technical developments. Our yarn feed, lubrication and control systems are designed to ensure that your knitting machines perform at high efficiency and produce to the highest quality standards.

Our quality assurance system guarantees that our products can meet the challenges of the future.

As you would expect, we are certified to ISO 9001. Our modern range of machines and rigorously optimised working processes ensure fully traceable product quality.

To ensure that our test equipment offers the desired degree of precision, it is regularly tested and maintained by our internal and external partners.

Since any technical equipment is meaningless without qualified users, we provide comprehensive and specific training to our employees.

We are full members of the VDMA (German Mechanical and Plant Engineering Association), through which we are members of a Europe-wide network of more than 3,000 member companies.



## Confirmed quality:

- certified to ISO 9001/2015
- Modern machine tools
- Internal and external monitoring of test equipment
- Qualified and trained employees

  
Made in Germany



# SUPPORT

Global consultancy and service to our customers

## Consulting

Our sales and application technology staff offer high levels of expertise when it comes to applications; they have a world-wide presence through our branches and agencies. We specialise in developing individual, customer-oriented solutions direct on site.

## Spare parts service

MEMMINGER-IRO views a comprehensive spare parts service as a priority, with prompt delivery of spare parts. Spare parts can be supplied directly via MEMMINGER-IRO Germany or via our branches and agencies. Spare parts catalogues for our current sales range can be downloaded under the relevant product on the website.

## Repair service

When it comes to servicing MEMMINGER-IRO products, we have our own repair department staffed by expert technicians.

## Installation service

In connection with distribution we also offer an installation service for our products. This service can also be used for retrofitting MEMMINGER-IRO products. We would be pleased to submit an offer without obligation.



## We are here for you:

Monday to Friday during normal business hours

You can contact us:

Tel: +49 7443 281-500

Fax +49 7443 281-101

E-mail: [service@memminger-iro.de](mailto:service@memminger-iro.de)



Use our MEMMINGER-IRO App so that we can also support you mobile at any time. You can contact our customer service directly or find your local representative.

In the download area you will also find further useful information. Technical documents and spare parts lists can be viewed directly on the mobile devices.

To quickly install the MEMMINGER-IRO App, simply scan the QR code below!



# SUSTAINABILITY

Responsibility for our environment



MEMMINGER- IRO uses future-oriented technologies to reduce our ecological footprint. In the field of processes for yarn feeding, control systems and lubrication systems we implement systems that are energy-efficient and work at high efficiency, thereby providing a competitive advantage to our customers.

With more than 60 years experience, we know the demands of the market and we can optimise our products to provide optimum effectiveness for our customers.

## Aware of regional responsibilities

For decades we have taken care to source a majority of the components of our products from suppliers within the local region, in order to avoid long transport journeys and thus reduce CO2 emissions. Our production is very efficient and non-polluting. A majority of our energy consumption is derived from solar panels.

We see it as our responsibility to maintain and protect the beauty of nature in our Black Forest region.



inspired by xpertise



BLUECOMPETENCE

Alliance Member

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