

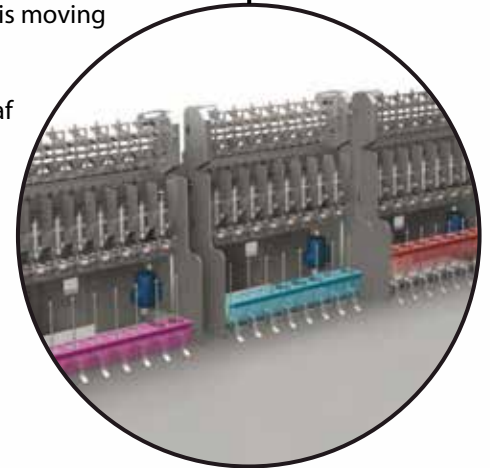
Giese in the third millennium



In 2004 with the great experience matured in the chenille yarn field and the new acquired experience in fancy yarn, GIESE entered in the fancy yarn market with an INNOVATIVE machine the new INNOVA FANCY YARN MACHINE. The peculiarities of this machine are many and meet all the needs of today's customers, Versatility, flexibility, optimization of the production of the different lots of yarn, extreme quality in producing yarn, maximum efficiency, low cost of maintenance and many other advantages. INNOVA could be version MF yarn to yarn machine, version MS1 working with sliver with one draft line and version MS2 working with two draft lines, every module could be any version till reach maximum 168 spindles (21 modulus). INNOVA can produce different type of fancy yarn every 8 spindles (one module) thanking also the separate fly frame movement every module.

INDEPENDENT FLY FRAME

The fly frame of the INNOVA is moving up and down independently every 8 spindles (1 module) thanking to the system to leaf the fly frame (motor/driver) mounted on each modulus



ADVANTAGE

- Limited capital investment by starting with an 8 spindles (1 module) machine
- More quality - more flexibility
- Easy maintenance (modules can be independently stopped)
- Yarn optimization product thanks to the independence of modules (each 8 spindles) and the individual fly frame.

FANCY YARN TWISTER MODEL INNOVA MF AND MS1-MS2

Every year the fancy market are changing rapidly, to meet his challenge the customer need to have a fancy machine that is extremely flexible, versatile, getting in all condition the maximum of productivity with the lower costs, the answer to this requirement is INNOVA.

The INNOVA machine produce, every 8 spindles (1 module) soft and bulky fancy yarn like no one other machine is capable to produce

ALL THE PRODUCTS ARE SUITABLE FOR:

curtains, drapes, furnishing Fabrics, textile wallpapers, apparel. Ladies wear as well as menswear as, pullovers, shirts, hand knitting yarns. **Automotive** is a sector were fancy yarn is developing for example in the interior of a car. **Technical furnishing** as medical sector, high tech sector, etc.

The INNOVA machine could be version MF, yarn to yarn machine (feed by yarn), version MF1 sliver/roving to yarn with one draft line (feed by finisher roving) and version MS2 sliver/roving to yarn with two draft lines (Feed finisher roving)

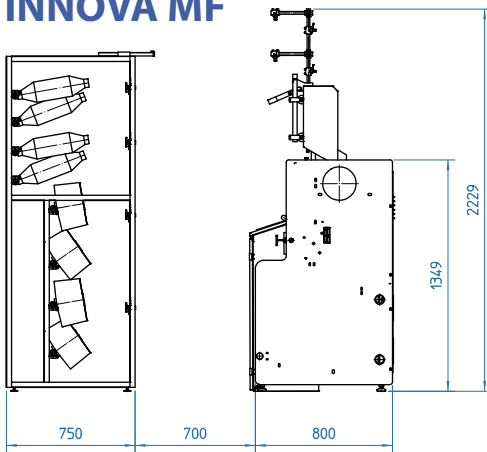
With INNOVA the customer has a considerable **increase of productivity**, with Maximum of efficiency, flexibility and easy quick adjustment of desired effects.



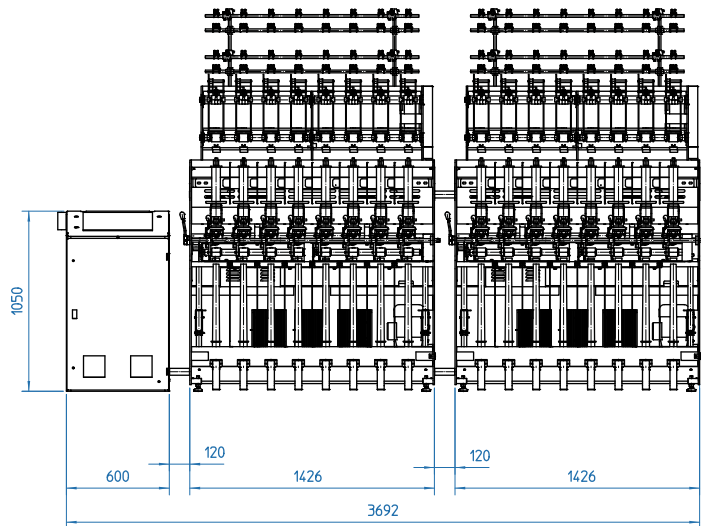
TECHNICAL CHARACTERISTIC

DESCRIPTION	VERSION MF/R R = TAKE UP IN RING	VERSIONE MS1-MS2/R R = TAKE UP IN RING
Electronic headstock	Industrial PC	Industrial PC
Electronic modulus (each 8 spindles)	Electronic cards	Electronic cards
Production of different kind of yarn	Each 8 spindles, max 8 (at the same time)	Each 8 spindles, max 8 (at the same time)
Spindle gauge	160 mm (standard) or 180 mm (optional)	160 mm (standard) or 180 mm (optional)
Maximum number of spindles	168	168
Plastic tube spindle height	450 mm	450 mm
Double flange bobbin height	220 mm	220 mm
Max. hollow spindle revolution	13.000 rpm	13.000 rpm
Max production output	35 mt./min.	35 mt./min.
Ring Diameter	115 mm (standard) Or 127-140 (optional)	115 mm (standard) Or 127-140 (optional)
Max. delivery speed	60 mt./min.	60 mt./min.
Yarn count	up to NM 40	up to NM 40
Maximum twisting rate	9999 Tpm	9999 Tpm
Max. take up spindle revolution	8.500 rpm	8.500 rpm
Feeding creel	Included	Included (not included from vase)
Installed power (for headstock)	1,5 Kw	1,5 Kw
Installed power (each 8 spindles)	3,5 Kw	4 Kw

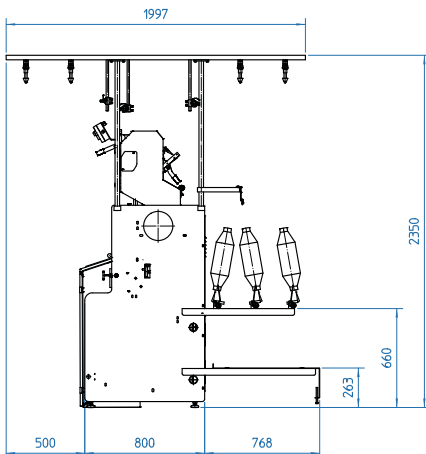
INNOVA MF



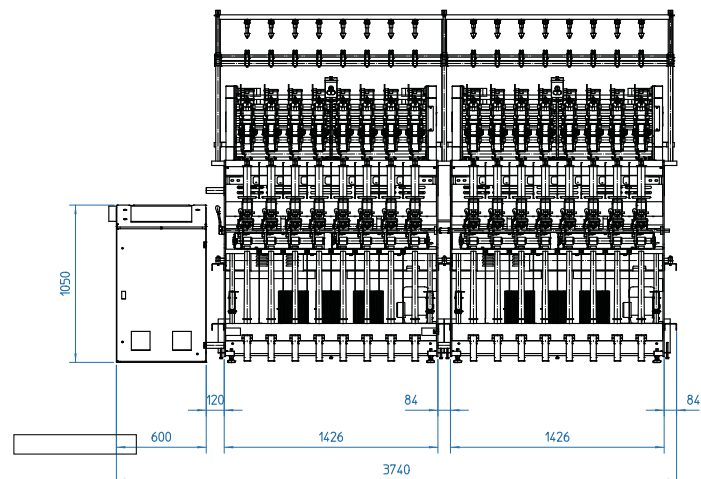
Smarthheadstock weight: 70 Kg. Modulus weight MS1: 450 Kg. Feeding creel weight: 6l Kg.



INNOVA MS1-MS2



Smarthheadstock weight: 70 Kg. Modulus weight MS1: 665 Kg. Modulus weight MS2: 735 Kg.



GIESE s.r.l.

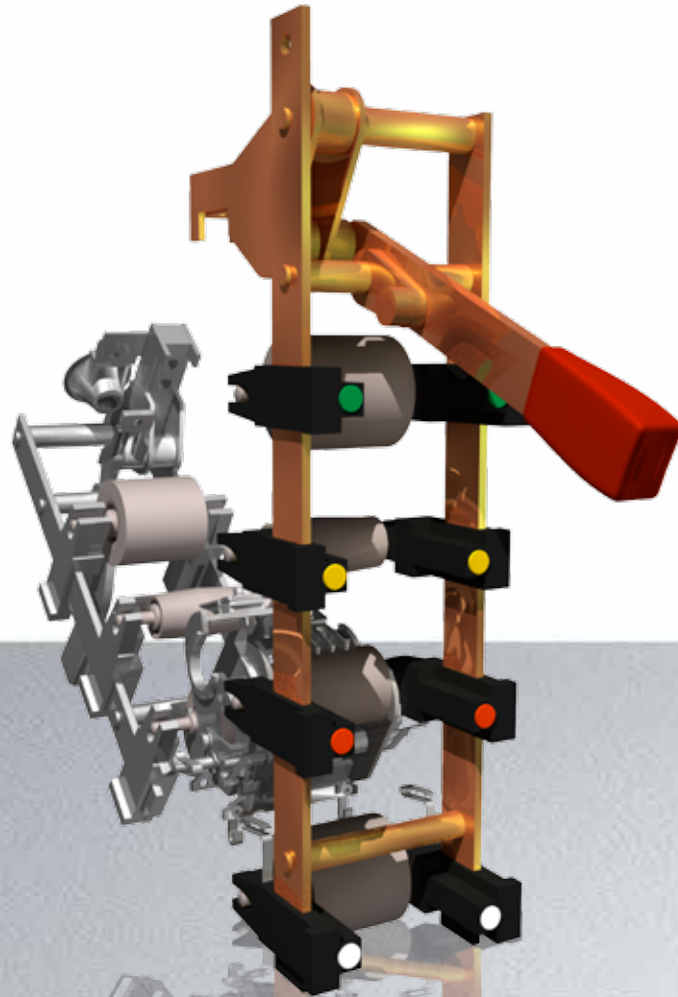
Via Sandro Pertini 86/88 - 50019 Sesto Fiorentino (FI) ITALY

Tel. +39 055 4251002 Fax +39 055 4251001 email: info@giesseitaly.com

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jnova

fully electronic fancy yarn twister machine



TAKE UP IN CONE:

Thanks to its modularity, the INNOVA machine could be also take up in cone. In this case we provide a special kit (take up in cone kit) to fix on the machine.

With this attachment on the same machine we can have take up in cone and take up in spindles. Take up on cone kit could be also retrofitting on the existing INNOVA machinery that have take up in spindles.

Every 8 positions (1 module) can have his own independent take up unit.



VERSION MF: MAXIMUM OF QUALITY

With the re-designed arm, is possible to get uniform yarn guidance with optimal quality on the most varied yarn types.

MODULAR INDEPENDENT FLY FRAME MOTION:

The fly frame of the INNOVA is moving up and down independently every 8 spindles (N° 1 module), this is possible only in INNOVA because every module has mounted its own system motor/driver, while in the others fancy yarn machinery this system is only one mounted in the main headstock.

DIAGNOSTIC MENU

Is always present for an easy trouble - shooting.

SMART ELECTRONIC HEAD

An operator interface consists of a TOUCHSCREEN PC with Windows XP operating system very simple to use and intuitive, where the operator can insert or change quickly and easily the whole machine parameters or it can decide to work each module (8 spindles) with different programs / recipes that he can create, store and eventually assigned to each module. The operator has the ability to create 8 programs / various recipes and assign them to the various modules



innova

fully electronic fancy yarn twister machine

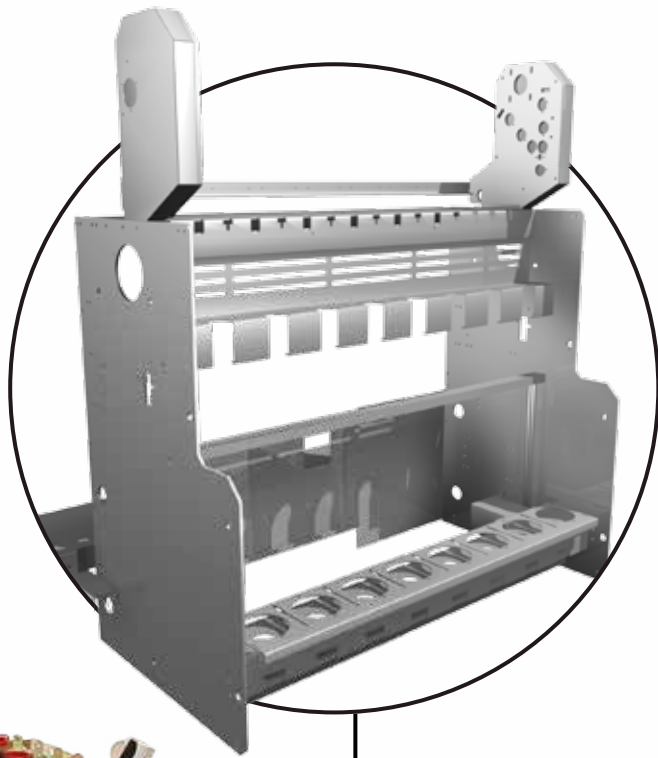


LOWER MAINTENANCE COSTS

Traditional fancy yarn machinery require frequently inspections to the mechanical devices, INNOVA due the elimination of most of the mechanical part lowers the maintenance costs with good return of investment.

VERSION MS: MAXIMUN OF QUALITY

With the re-designed draft arm, is possible to get uniform fiber guidance with optimal draft on the most varied fibers types and lengths always getting maximum quality.



MODULARITY

INNOVA has a modular construction. The electronic headstock can drive from 8 to 168 spindles in section of 8 spindles, each allowing to configure the machine according to the production requirements.

LOWER ERECTION COSTS

The modular construction reduced the erection costs and give much more stability to the machine absorbing the spindle vibration. The modules are delivered already assembled and tested; a maximum of 168 spindles can be connect together and erected in a very short time.

UNLIMITED DESIGNED VARIETY

By using the PC with the latest software is possible to produce, while the machine is running, unlimited design variety with exact reproducibility of effects thanking to a friendly program, ensured always maximum of quality and rapidity of processing. The programs can be easily transferred from a fancy yarn machine to another or in a usb storage.



HIGH FLEXIBILITY

Is possible to **produce different fancy yarns every each modulus (8 spindles)**, like bouclé in the first section, frisè in the second, knot in the third, slub yarn in the fourth, up to 8 different fancy yarns on the same machine! **Easy spindle rotation** from S to Z independently each section (8 spindles).

PRODUCTIVITY

Unlike the conventional machines that stop whole machine in case of maintenance operation with INNOVA it is possible **isolate only the section interested (8 spindles)** while the rest of the machine is running.

