

IMA Held its KNITWEAR WEBINAR

IMA SpA held the first webinar for 2022 on June 16, 2022. The topic was KNITWEAR. The contents of the webinar is as follows.

Speech MIRELLA SARDINI

Good morning everyone and welcome to this first installment of the #IMAwebinars 2022 series.

An important year this for IMA/ because it marks the 45-year milestone.

In these first 6 months of the year we have been very focused on how to face the near future, the thought of new strategies has involved us in several initiatives that we are experimenting especially from a marketing point of view, because Covid that seems to be behind us

now fortunately, but it has anyway completely changed our way of thinking and acting.

At the same time, however, we are again ready to start the cycle of seminars; the one of 2021 was very successful, very well attended and therefore gave us some good satisfaction, / and above all allowed us to stay connected and support to our regular customers, and to involve new and potential customers. An opportunity then that we want to continue to seize.

The topic of this seminar is certainly dear to us, we will be talking about an industry that we know very well and that has given us the opportunity to gain a lot of experience in the field, which has then also served us well in all the other industries that we have delved into.



I'm talking about knitwear, where, thanks also to well-established partnerships, we have developed and created a whole series of accessories and applications to achieve the best drafting and cutting results with the highest productivity output.

But I don't want to take up any more time on today's topic, so I'll let you get right into it.

I would just like to remind you that there will soon be the second major event of this year, it will be in attendance after a really long time, so you are all invited to the Texprocess trade show that will be held as usual in Frankfurt from June 21 to 24 and where we will be present with our booth number D88 in hall 8 with a really innovative CONCEPT line.

IMA is looking forward to welcoming you! And to seeing you again after a really long time.

Now I will really hand over the floor to Mr. Gaetano Nicolaci, sales manager of the Americas and the Spanish and Portuguese speaking European zone, who will start to go into more specifics. Thank you very much for your attention and see you soon.

Speech COMMERCIAL GAETANO NICOLACI

Good morning, everyone, I am Gaetano Nicolaci, and thank you Ms. Mirella Sardini.

In this first appointment of the #IMAwebinars2022 series, we decided to talk about knitwear. A production sector among the most important in the 'clothing industry in which IMA, thanks to its 45 years of experience, manages to express its potential to the fullest.

The fabrics of this sector are characterized by great lightness and elasticity, the cutting of which is simple and without any particular challenge at the technical level. The challenge is to be able to cut as many sheets as possible while maintaining quality.

Today, thanks to the Typhoon 10 we are able to offer a machine with the latest technology available on the market that can cut up to 10cm of compressed fabric. Our goal for 45 years has been to continue to improve and evolve to meet the needs of customers in the many markets in which we are present.

Lately, the trend in knitwear and jersey productions is to use fabrics in 240 height in both roll and plain weave, which is why today we are proud to present our complete line in 240cm height. This important innovation adds to the range of options to better meet the needs of historical markets for IMA such as Bangladesh and India to which other countries with a relevant growth such as Pakistan, Uzbekistan, Kyrgyzstan and Tunisia have been added.

The fabric used for knitwear is in most cases folded rather than rolled with high elasticity and low weight. These are some of the reasons for the shrinkage of the fibers at the drafting stage (called "shrinkage") which then affects the cut by generating irregular

shapes for the same size. To avoid this issue, there are several working methodologies to release the excess fiber tension.

The main ones are 2, which IMA has thought of by solving the problems with 2 machines: the first is used before spreading, while the second is used after the fabric has been spread.

Now, however, before going into the topic of machinery, I will leave the floor to my colleague Giacomo who will introduce the MAXIMA CAD solution for knitwear and then get to the core of the technological solutions with Alberto who is going to describe the machinery proposed by IMA for this sector. Thank you all, enjoy and have a good webinar.

Speech GIACOMO CARBONARI - MAXIMA CAD

Maxima is the complete program suite designed to meet the needs of any pattern making office and consists of 4 applications: Design, pattern editor for the creation and editing of patterns; Marker, automatic nesting for the optimal arrangement of pieces; Mtm for the management of Made to Measure products; and Network, which allows the creation of placements to be sent to the cutting room to be made in a totally automatic way.

The program is modular, so each patternmaker based on its type of production, choosing which program functions to include and which not to include. In this way, one can build a customized work environment.

With Design many of these operations have been facilitated thanks to an intuitive graphical interface built along the lines of the most widely used Windows applications, in order to ensure very little learning time even for modelers coming from other programs.

The model, can be created starting from the outline on paper which is then digitized with all the traditional methods, or, by going to "modify models" coming from "other programs", thanks to the importers of all the native files of the most popular cad. The third methodology, the most widely used in knitwear companies especially in Asia, is to create the pattern templates directly on the screen, often without going through the paper pattern. With Maxima this operation is made very quick and intuitive. In fact, with just a few clicks you can manage to create the pattern complete with size development.

Once the pattern is ready, Marker performs template placement thanks to a sophisticated multicore algorithm that guarantees maximum efficiency with very little processing time. With the "work queue" function, it is possible to queue up the placements of the entire job order, without having to call up one pattern at a time, but simply selecting the number of sizes, patterns to be placed and fabrics to have all the

placements created independently, guaranteeing a 90 percent reduction in order processing time. Network is the very useful application for knitting companies with multiple placing stations. This makes it possible to speed up production time by 90% by managing orders fully automatically. Using Network in a massive and fast way it is in fact possible to eliminate manual work and launch placed in one click saving 99% of the time of order management. Through an order launch panel, it is possible to insert materials, sizes and patterns by simply dragging items from the left column into the placings and naming column during creation. Network is also capable of importing the current status of your systems, that is, importing all the history of placings made so far by processing files in ISO and HPGL formats. It is also possible to open several works at the same time and change their safety distance, length, heights and all other desired information.

I leave the floor to my colleague Alberto for the roundup on the IMA machines involved in this area. Thank you

Speech ALBERTO PINI, SALES TECHNICIAN

Good morning everyone, here we are again for the IMA seminar appointment.

Moving back to the topic of shrinkage, typical of knitwear, I would like to introduce the two most used working methods:

- The Relaxing Machine, model IMA 869, allows the fabric to be unrolled by making the fibers lose most of their tension, which can then be rewound into a roll or fold and be made immediately available for production. Such a machine is equipped with electronic metrage control, which is carried out both before and after the relaxation operation, ensuring that the roll's square footage is verified to the millimeter, an aspect about which customers are very sensitive.
- As a second option, the fabric can be stretched immediately with the spreader forming the traditional "mattress," but before going to cutting it is made to "rest" on our multi-deck tables to let it lose tension. These are simply a series of conveyor tables positioned on top of each other that allow multiple mattresses to be stored/stored and be called up by the operator fully automatically as needed.

As an alternative to these two working methods, many customers decide to perform the relaxation operation directly with the spreader with all the options for knitting fabrics. Phoenix 890 B with the folded kit is the most complete machine on the market, thanks to its hardware and software components it is able to spread every type of fabric, both in roll and in folded packs, without tension and with a millimeter alignment of heads and selvages.

In the case of knitwear with tubular fabric, IMA has the specific machine that makes it possible to lay the fabric with this peculiarity even in the case of the production of underwear where many companies need to rotate the fabric by 90° so that the fold of the fabric is on the side instead of in the middle.

Regardless of the working method used, IMA recommends the model 808 loader as the system for loading the pieces onto the spreader, which provides great efficiency in handling the pieces thanks to IMA's patented self-feeding system and the double conveyor table for both loading and unloading the outgoing pieces, which are automatically rewound in a sequence of up to 8/10 pieces, depending on diameter.

Alternatively, the 807 feeder can be used for optimal handling of non-roll fabrics.

Once the fabric has been stretched by disposing of excess tension, it is ready for labeling. IMA Polaris 908 is our labeling machine that automatically interfaces with any type of CAD software by recognizing the graphic of the pieces before cutting and placing the labels directly on the fabric without releasing any residue, even on very delicate fabrics. The new PC, with its intuitive graphical interface, allows the operator to make some changes without having to go back to CAD while maintaining a very high printing and handling speed. The new labeling machine is also capable of printing both Cyrillic and Chinese characters.

After the part recognition stage, we can move on to the final process represented by automatic cutting. With Typhoon 10 we have achieved productivity levels combined with very satisfactory cutting quality. In fact, we are able to cut without problems up to 10 cm of knitwear or jersey fabric suctioned combined with all the specifications of the Typhoon cutting generation (sensors, buffer 0, rack for bridge movement and double turbine for always timely suction). Typhoon 10 is the machine that thanks to the very solid structure and the above-mentioned specifications, can work 7 days a week and for 24 hours a day as it does in dozens of our customers in Asia and South America.

Today, Typhoon 7 and Typhoon 10 are also joined by our new model in 5cm height. Zefiro is in fact our new cutting model for productions with not too high numbers but which guarantees the same quality as lower cuts. In this model we have in fact condensed all the main innovations present in the 921 generation to those of the Typhoon generation with important innovations in the cutting management software that marks a paradigm shift from the past and will be presented right at the fair in the coming weeks.

Thank you all for your attention to see you at the next webinar!