

CASE STUDY



Textile Engineering

## MARITAS TEKSTIL

Turkey



## Why Marzoli?

### Maritas Tekstil's quality concept conquers the denim industry



Mr Bekir sidki Kesim,  
Maritas Tekstil's Ceo

Maritas Tekstil is a Turkish firm, located in Kahramanmaraş, which entered the textile sector in 2003 with the purchase of 39 looms to produce cotton dresses. Thanks to its philosophy of high quality products, innovation and production efficiency, the company has thrived and in 2010 the number of looms reached 100 pieces. In 2012 the firm decided to invest in the fast-growing denim sector. The high quality proposition, through which Maritas Tekstil intends to conquer the market, fostered the company to revert to Marzoli.

Marzoli provided Maritas Tekstil with a complete spinning installation with 15,840 spindles that was assembled and installed at the beginning of 2013. Currently the total production capacity is of 1.000 tons/ month of yarn and 3 million meters/month of fabric. The Italian cutting-edge technology coupled,

with high quality raw material, such as USA and BCI cotton, has ensured continuity and standardization in yarn quality, customer satisfaction and outstanding efficiency levels. *"After two years from the installation of the plant, Maritas Tekstil's denim indigo plant represents a benchmark for production efficiency and yarn quality by constantly scoring under 5% of Uster Statistics"* Maritas Tekstil's CEO, Mr Bekir Sidki Kesim, states. Today Maritas Tekstil stands out in the Turkish textile industry and represents a growing reality within the denim sector.



## Our Solution

The partnership throughout the decision making process

- CUTTING-EDGE TECHNOLOGY
- TOP QUALITY & PRODUCTIVITY
- PROFITABLE RELATIONSHIP
- HIGHLY TAILORED SOLUTIONS

After the decision to enter the denim market, Maritas Tekstil looked for a supplier of cutting-edge technology that could ensure both yarn quality and productivity. On one hand, yarn quality is fundamental for customer satisfaction; on the other hand, the fierce competition of yarn manufacturers makes production efficiency absolutely necessary. Beside offering high technology and high quality, Marzoli has proved to be a valuable partner for any company which enters new business areas.

*"Marzoli's management has assisted us during the entire decision-making process. We had the chance to visit a plant to see Marzoli's machines at work and assess yarn quality. In the end, we perfectly knew how Marzoli's machinery could*

*contribute to our business"*

Maritas Tekstil's factory manager, Mr Murat Nalçaci, says.

The personal approach that Marzoli adopted in that occasion is part of its culture: *"The cornerstone for a successful partnership and profitable relationship is a personal approach with the customer. The partnership with Maritas Tekstil has been a success because our client knows that he can rely on people that capitalize on great experience and competence to offer highly tailored solutions"*

Marzoli's Managing Director states.



Mr Murat Nalçaci,  
Maritas Tekstil's factory manager



# Blowroom



- EFFICIENT OPENING
- PERFECT MIXING
- HIGHLY EFFECTIVE CLEANING

Outstanding yarn quality and process productivity standards require great performances from the very beginning of the process: the blow room. Maritas Tekstil has installed a complete Marzoli blowroom line which allows to process 1,000 Kg of cotton per hour and ensures efficient opening, perfect mixing and highly effective cleaning of cotton. The innovations that Marzoli has introduced on its blow room line allow to process great amounts of material with outstanding quality levels and with low stress on the fibers guaranteeing the following benefits: higher productivity, perfect opening, cleaning and mixing, reduced incidence of energy costs on production levels (i.e. lower Kw/Kg ratios), fewer fiber breakages and

lower amount of good fibers in the waste.

*"We are very satisfied with Marzoli blow room line: the innovative design concepts and the advanced technology assure an effective progressive opening action which then grants the perfect cleaning of the raw material. Marzoli's blow room line plays a fundamental role in the achievement of Maritas Tekstil's outstanding quality levels"* Mr Murat Nałçacı states.

## Installed machines

- SUPERBLENDER-B12
- DUO CLEANER-B390L
- AUTOMIXER-B143L
- DUO BLENDED CLEANER-B380L
- B45L & B151



## Carding



- GREAT PRODUCTION CAPACITY
- HIGHER CARDING EFFECTIVENESS
- BETTER SELECTION OF FIBERS
- REDUCED AMOUNT OF TRASH

Currently there are 10 Marzoli C701 cards running at Maritas Tekstil's spinning mill, ensuring the highest performances in the parallelization and selection of the fibers and in the formation of high quality slivers.



Thanks to its innovative geometry, Marzoli C701 card has the greatest carding surface available on the market, 3.74 m<sup>2</sup>, and this allows to increase production levels - for ring yarn carded cotton Marzoli C701 card can produce up to 120 Kg/h of high quality sliver - and achieve higher carding effectiveness with a reduced amount of trash. Moreover, as the wider carding area has been reached not with a greater diameter of the main cylinder but with a bigger working width, the layer of material being processed is very thin and does not have to rotate with a high peripheral speed. This allows a more effective carding action and a lower wear of the mobile flats and of the carding cloths with great potential savings on maintenance.



The outstanding quality levels achievable with Marzoli C701 card are testified by Mr Murat Nalçacı's words:

*"Yarn quality heavily depends on how carding operations are carried out and, from this point of view, Marzoli Card-C701 perfectly matches our high-quality philosophy".*

## Draw frame



- PERFECT UNIFORMITY
- OUTSTANDING EVENESS
- GREAT REGULARITY OF THE SLIVER

Sliver breakages represent an important hidden cost for yarn manufacturers, not just because of raw material waste but also because of downtimes.

*“Every production manager working in the textile industry knows how costly machine downtimes are.*

*The costs of sliver low quality become even higher when roving frames have 192 spindles. If there is a breakage at any point in the sliver being processed on the roving frame, the machine and, consequently, a big part of the entire production process immediately stops.*

*This is another reason that has fostered us to rely on Marzoli*

*for the installment of our draw frames”*

Mr Murat Nalçacı asserts.

Thanks to its vast expertise and the continuous improvements on its product, Marzoli has developed two innovative draw frames that ensure the highest performances in spinning preparation. High productivity, with production levels up to 1,000 m/min, and outstanding quality slivers with excellent evenness and uniformity that ensure no sliver breakages and no downtimes in downstream processes.

Today there are nine draw frames running at Maritas Tekstil's spinning mill: five of them are equipped with autoleveller.

This technology works as an open loop control system

(short term) and ensures the highest degree of reliability with a reaction time of only 3 ms thus ensuring perfect uniformity of the output sliver.

## Roving frame

- LEADING-EDGE TECHNOLOGY
- LOWEST KW/KG RATIO
- HIGH EFFICIENCY
- COMPLETE AUTOMATION

Rising labor costs in Turkey and the industry fierce competition are fostering Turkish manufacturers to revert to technology to lower their operating costs, in particular by investing in automation. Maritas Tekstil has therefore installed four Marzoli FT6D roving frames with 192 spindles: this machine is

completely automated and can be easily controlled through a touch screen system while the sensors installed on the machine allow secure arrest in case of breakage or lapping. Moreover, the installed transport system also avoids the manipulation of the bobbins and, consequently, their damage.

*“Marzoli roving frame is the best machine available on the market for roving operations: it allows to achieve outstanding productivity levels with low*

*energy consumption.*

*In fact, the FT6D does not require suction: Marzoli has installed a series of sensors that identify immediately and with the highest degree of reliability any broken roving.*

*This efficient and cost-effective solution allows us to substantially reduce the operational costs associated with roving operations”*

Mr Murat Nalçacı states.

## Spinning Frame with integrated slubbing device

- HIGHEST QUALITY STANDARDS
- EASY SETTING OF THE MACHINE
- EXCELLENT FLEXIBILITY
- STATE-OF-THE-ART TECHNOLOGY FOR FANCY YARN PRODUCTION

In order to achieve the highest quality standards for denim production, Maritas Tekstil installed ten Marzoli MDS1 spinning frames, for a total of 15,840 spindles, all equipped, with the highly innovative Marzoli slubbing device. Marzoli has been the first manufacturer to introduce a fully integrated device that does not alter the machine performance. Since then, for the last 15 years, Marzoli has constantly improved its performances and today Marzoli slubbing device represents state-of-the-art technology for fancy yarn production.



## Spinning Frame with integrated slubbing device

Since its conception Maritas Tekstil has invested in order to provide the market with top quality yarn. Top quality is not only a means to ensure customer satisfaction, but it also allows to avoid price competition. This is why Maritas Tekstil has always invested in quality and carefully monitors it throughout the value chain: from the raw material to the end product. Maritas Tekstil controls all the incoming and outgoing material on a daily basis

with the latest monitoring machinery. Raw material control ensures quality in the final yarn and a trouble-free spinning experience. End-product control ensures faultless deliveries and timely corrections in the production process. Today, quality is Maritas Tekstil's main strength. Its yarn quality is among the best in the world (less than 5% of Uster Statistics) and this outstanding performance has been achieved thanks to

the selection of proper raw material and the installation of Marzoli spinning technology. "In order to score among the best 5% companies in the world, a total quality approach must be implemented: every purchase and every investment must be directed towards this goal. This is why we select the raw material carefully and we installed the most advanced technology for yarn quality" Mr Murat explains.

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