

ITM FLASH

ISTANBUL – JUNE 2024



WEAVING PREPARATION

SAFIR PRO S67 the new generation drawing-in machine

FRAME WEAVING

High-speed solutions for your needs

JACQUARD WEAVING

Brand new PRO Series Jacquard machines

INDUSTRY 4.0 SOLUTIONS

MyStäubli Portal

Innovative technology in the digital era – steps toward sustainability

We are pleased to present this new edition of ITM Flash which has been created especially for our valued customers and visitors to ITM 2024 in Istanbul. The short articles in this magazine will show how Stäubli's product portfolio could benefit you as a textile manufacturer.

Stäubli relies on its 130 years of experience in designing and manufacturing shedding equipment to continuously develop new comprehensive solutions in order to provide the best choice for every application.

On Page 2, you get an overview on our acclaimed frame weaving solutions for high speed weaving, was it for rapier, air-jet, or water-jet applications.

On page 3 you can learn about the new MyStäubli portal. This digital solution gives you fast and easy access to the

world of Stäubli machinery and services – and much more.

In the weaving preparation department, Stäubli automation solutions support highest quality and efficiency when it comes to warp and style changes. On page 4 and 5 you discover our innovative features of our TIEPRO warp tying machine and the new SAFIR PRO S67 automatic drawing-in machine which is launched during this trade fair. Additionally, there's a spotlight on a customer's testimonial regarding their investment in this innovative equipment.

Pages 6 and 7 take you on a journey through the world of Jacquard weaving. The new line-up of PRO series (SX PRO, LX PRO, LXL PRO and LXXL PRO machines) will broaden your Jacquard horizon because these machines can master nearly any application, handling even highly complex fabric structures.

The newly designed MX PRO module, with the electronic control system, ensures that these machines remain compact and cool inside – setting a new standard for energy efficiency. The LX12 PRO Jacquard machine stands out for its dependable performance and unleashes creativity in crafting narrow fabrics.

Turn to page 8 for some insight into the local Stäubli unit in Istanbul and read our success story in Türkiye.

You will also find links to our complementary solutions for weaving like machinery dedicated to technical fabric and carpet weaving, including the new ALPHA 580 UNIVERSAL, which was unveiled last year on the occasion of ITMA 2023 in Milan.

We wish you enjoyable reading.

EDITORIAL

Dear Reader,

We are delighted to be back again in Türkiye. You always come to ITM in Istanbul with high expectations, keen to discover new things, find answers, exchange experience, and expand your knowledge. The year 2024 is no exception, and we eagerly await the opportunity to connect with you.

As a family-owned textile machinery manufacturer and provider, Stäubli is always enthusiastic about showcasing our latest innovations and receiving your feedback on them. This aligns with our entire team's philosophy: Listen to the market and bring further benefits to the weaving mills.

We look forward to discussing this with you at our booth.

Sincerely,
Bertrand Leroy,
Executive President, Stäubli Textile

Longevity or precision? Both! Cam motions and dobbies from Stäubli

Robustness, high performance, speed, quality, competitiveness, flexibility – these are all part of Stäubli's DNA. By continuously strengthening our product range and process range, we continuously strive to achieve a single goal: as a partner, we meet the needs of our customers.

Facing the demand for various types of shuttleless weaving machines and different types of fabrics in the Chinese market, Stäubli will bring a variety of new shedding equipment at this exhibition to fully meet the needs of water-jet, air-jet and rapier looms in stringent requirements of high-speed, heavy-load and precision.



S1792 / S3220 / S3260

High-speed air-jet applications

The first-class engineering and high-quality construction of our cam motions and rotary dobbies offer air-jet weavers outstanding speed, optimal energy efficiency, long service life, and lower maintenance costs.



S1792



S3220



S3260

S3020 / S3060 / S3224

High-performance rapier applications

Stäubli rotary dobbies set the standard worldwide, delivering extreme reliability, efficiency, and long service life. They are suitable for all fabrics and patterns and they offer considerably increased load capacity and resilience.



S3020



S3060



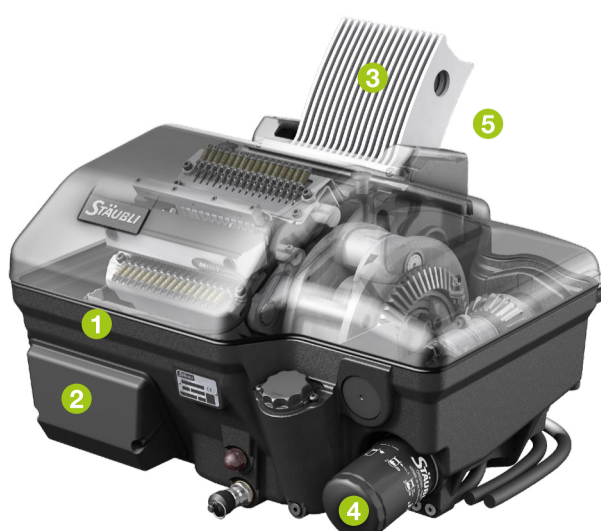
S3224

High-speed S3280 rotary dobby – concept for air-jet applications

Stäubli has been designing revolutionary shed motion systems since 1892. Since those early years as a mere workshop, the company has become a global benchmark setter for mechanical shed motion systems for frame weaving.

A recent development is our S3280 rotary dobby, designed for ultra-high-speed operation with a minimum of vibration and ensuring reliable performance. This dobby, coupled with our new e32/33 G transmission, is a must-have solution for frame-weaving mills that demand the utmost in productivity.

This newly developed machinery is a result of our commitment to sustainability. We aim to provide our customers with eco-friendlier solutions that make optimum use of natural resources.



- 1 Reinforced monobloc housing**
 - Handle heavier loads
 - Reduced vibration
- 2 Optimized and regulated heat**
 - Fully integrated cooling system
 - Optimal operation temperature
- 3 Levers**
 - Enhanced performance and longer lifetime
 - Up to 16 levers
- 4 New lubrication system**
 - Important oil volume reduction
 - Targeted lubrication
- 5 New e32/33 G transmission**
 - Capacitive roller bearings
 - With reinforced DRC quick link system

MyStäubli portal – answering challenges of today and tomorrow

Is your weaving mill struggling with challenges in terms of performance, human resources, or overall organisation? Stäubli can help. At ITMA 2023 we are launching MyStäubli, our new portal for our customers. It includes an equipment centre that serves to keep you fit for efficient maintenance and help you get the most out of your Stäubli machinery and solutions.

A full package of support

MyStäubli is a versatile and complete solution. It makes it easy for you to take proper care of your machinery, optimally train your team, complete your knowledge, and take advantage of our redesigned e-shop for easy management of your spare parts.

A multifaceted solution to suit your mill's technical and personnel needs

Your weaving mill is one of a kind. It has a specific organisational structure, a unique combination of machinery, and a team of many unique individuals. We respect that, and that's why we've integrated a broad spectrum of interaction options into MyStäubli.

Whether you need technical documentation, a tutorial, or maintenance follow-up and support, either remote or live, we will meet your specific requirements, always considering the competencies and mentality of your staff – even your apprenticeship needs.

Evolutionary for future needs

MyStäubli builds on our corporate values, principles like reliability, longevity, and partnering. The platform is designed to constantly evolve in a weaving world that is gradually adopting more and more Industry 4.0 solutions.

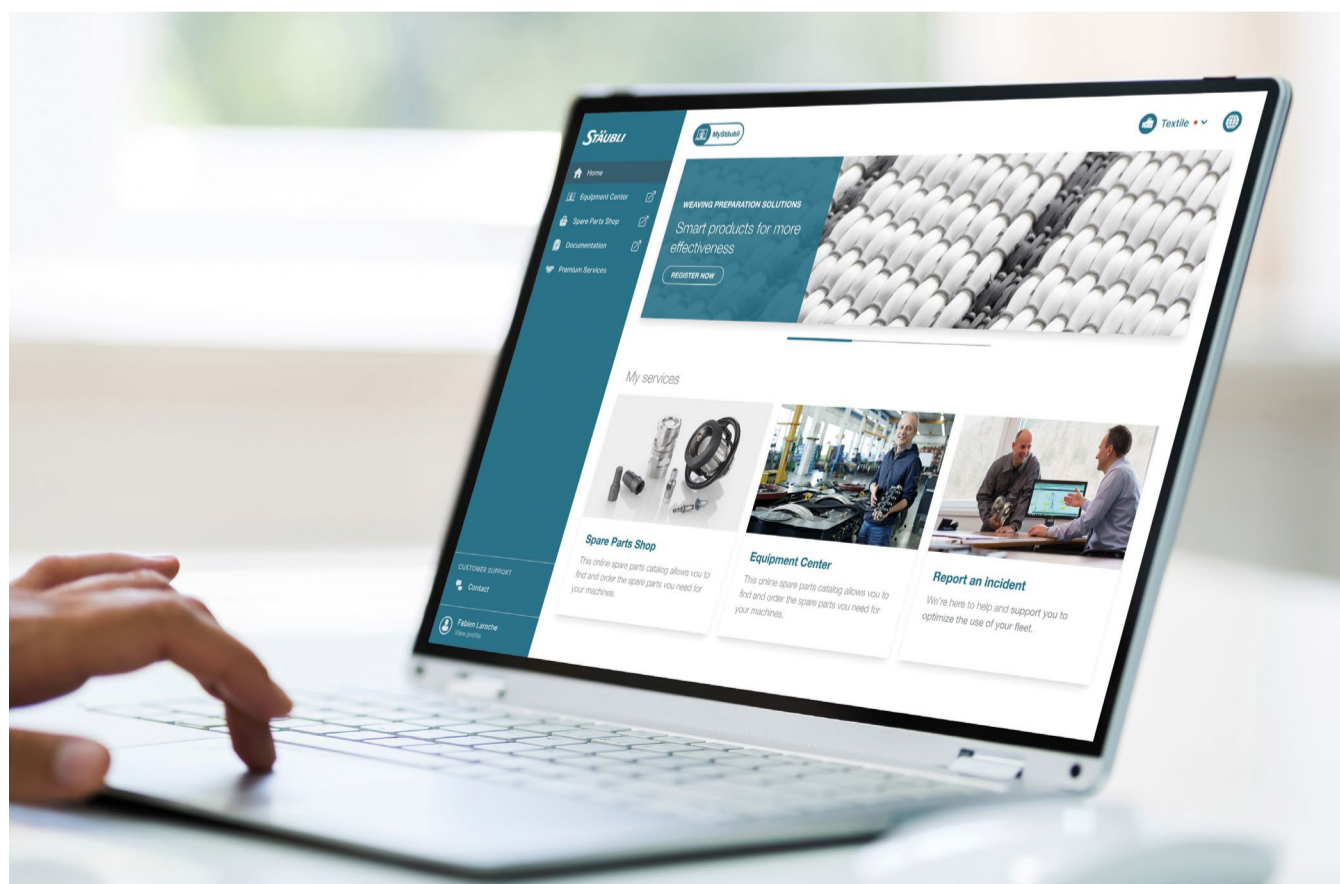
Well integrated into the Stäubli environment, the portal offers access to current training options and continually updated information.

Accessible anywhere, anytime

MyStäubli is a web app you can add to your favourites on your laptop and your smartphone. This gives you easy, instant access in case you ever need urgent support. It also makes it convenient to register any maintenance information during your regular factory inspections.

Interested in a live demonstration?

For more information or a live demonstration, just ask our local team to contact you or visit your mill. Get ready for the future.



Scan the QR code and create your account for you and your teams!

Speed and quality: SAFIR PRO S67 the new drawing-in machine

High speed drawing-in of cotton warps

With up to 200 yarns drawn-in per minute, the SAFIR PRO S67 supports utmost productivity in the drawing-in department of weaving mills producing shirting, men's suits, or home textiles.

Fully automatic Layer- & Offset-Management

Stäubli offers the new Layer- & Offset-Management option for double warp beam applications for staple fibre, and especially fancy denim applications on the stationary drawing in machine SAFIR PRO S67.

Stäubli doubled the number of clamping rails in the yarn frame in order to handle each yarn sheet with two clamping rails. The yarn sheets are now clamped independently by a double clamping system made of 4 clamping rails. The offset is corrected fully automatically.

The machine brings the two yarn sheets into perfect alignment with zero offset. This allows the yarn separation unit (suction nozzle) to process the yarn layer without time loss.

The machine operates efficiently with no need to move to an offset yarn. The horizontal offset movement is obsolete. In this way, the new option permits the highest performance.

Faster than the human eye: AWC 2.0 colour nuance detection

The essential function of our state-of-the-art AWC 2.0 technology is interpreting the measured data through image processing & data analytics, using advanced algorithms & software and high-performance processors.

This allows the determination of titre, colour, twist direction, and, within certain limits, even hairiness, transparency, and monofilament or multifilament characteristics. For multi-coloured warps, AWC 2.0 can detect a great number of colour nuances per warp. This gives mills expanded capabilities to produce innovative, outstanding, and unique designs.

A quality weaving process

With SAFIR and Active Drawing-In Control 2.0, your processes are optimized and your completely drawn-in weaving harnesses will be available on time, in the desired quality, and ready for quick startup of the downstream weaving process.



New SAFIR PRO S67 automatic drawing-in machine



A CUSTOMER VOICE

Investment testimonial from Lutuf Mensucat A.Ş.

“We are looking forward to our new investment in Stäubli SAFIR PRO S67 which will set a foundation for a smooth and efficient weaving process, leading to high-quality fabric production and quick adaptation to market needs.”

The weaving company Lutuf Mensucat A. Ş is currently running 248 weaving machines. The daily production output in average is 50.000 meters. In order to answer the various market demands, Lutuf always invests into the first-tier high performance machinery with high speed.



Mr. Zekeriya Tanrıverdi
Member of the board

Smooth warp changes in the weaving mill with TIEPRO - the operator friendly warp tying machine

Stäubli is showing its TIEPRO warp-tying machine, featuring extremely fine mechanical precision supported by high-performance digital technology. Over seventy years of Stäubli experience in the production of tying machines and tying frames have gone into the completely new design of TIEPRO.

Since its introduction on the market, TIEPRO is already in successful operation in weaving mills around the world. Offering utmost ease in use and a unique auto-reverse function enabling the automatic repeat of the yarn separation process in case of double-end detection, this tying machine has become the first choice of operators.

Here are some reasons why weaving mills should invest in the completely new TIEPRO, the world's most advanced warp-tying machine:

- Unique yarn separation process with spindle cone (no spare needles required)
- New electronic double-end detection before cutting the yarn; auto-reverse function
- Short knot ends with adjustable length
- High availability and good environmental performance (no oil bath needed)
- Guides the operator through the tying process

Stäubli warp tying machines cover a full range of applications

Stäubli TOPMATIC, MAGMA, and TIEPRO warp tying machines stand for perfect knot quality, flexibility in use, and high efficiency. Perfectly tied together warp sheets are essential in achieving quick warp changes and short idle time of the weaving machine. Stäubli's proven product range includes the ideal warp tying machine for any type of yarn.



TIEPRO application fields

Yarn types – 100% staple fiber yarn, 100% cotton, cotton blends
Count range (NeB) – 3 - 100

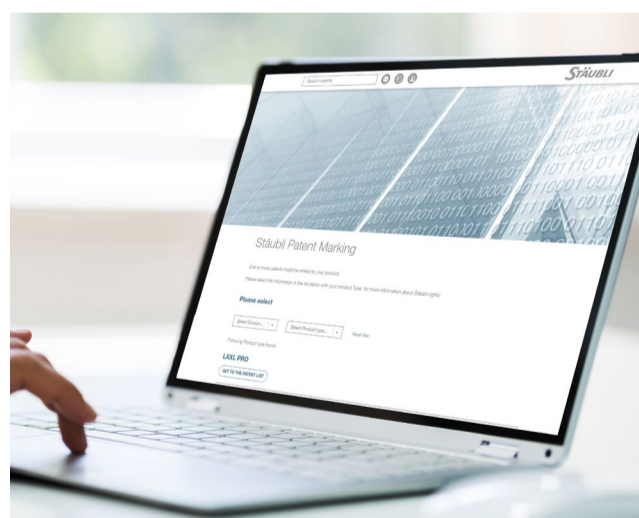
INNOVATION & PROTECTION

Stäubli patents and registered designs

Stäubli has been providing technological solutions for over 130 years. Introducing many innovations for the textile industry, Stäubli has always been careful to obtain recognition of its technological added value.

Over the years, Stäubli has applied for patents for no less than 650 innovations – from the first dobby machines in 1892 to the current extensive range of textile machinery.

Our leading-edge solutions are made possible by the experts in our highly capable R&D department. They are driven by passion to deliver the best solutions and results, which are of course protected under intellectual property rights. One or more patents are related to our innovative products.



They guarantee the advanced technology and value of the Stäubli equipment to your exclusive benefit.

For more information about Stäubli IP rights, visit our Stäubli Patent Marking website at: <https://patent.staubli.com>



ORIGINAL SPARE PARTS & SERVICES



Using original Stäubli spare parts for maintenance procedures ensures the reliability of your machine, the safety of your operators, high productivity, and weaving quality. Spare parts manufactured by Stäubli meet the same stringent production and quality control criteria as the original parts and preserve the resale value of your equipment.

Direct access to the Stäubli Spare Parts Catalogue: <https://portal.staubli.com>



Energy savings with Stäubli Jacquard machines



Today's market situation is increasingly challenging, with circumstances that are difficult to influence through individual efforts. Rising energy prices and the high cost and uncertain availability of raw materials are impacting the profitability of weaving mills beyond control.

Stäubli has answered this challenge with the launch of the new PRO range of electronic Jacquard machines, equipped with NOEMI electronics architecture and the MX PRO module. This is just one way we are doing our part to shape a responsible future for the textile industry.

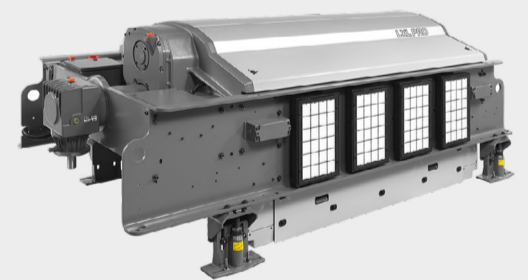
In this context, it is more important than ever to rely on production equipment that:

- features innovative materials and technologies to achieve electricity savings
- operates reliably and helps to conserve raw materials
- is manufactured to high quality standards for long service life
- allows a high degree of recyclability.

Dedicated solutions for any application



SX PRO
Format: 2,688 hooks



LXL PRO
Formats: 8,192 to 14,336 hooks

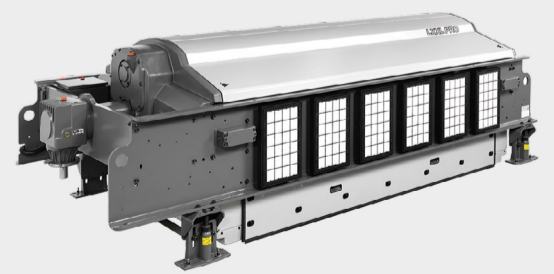
Thanks to our close partnership with weavers and our decades of experience, Stäubli has developed an extensive range of Jacquard machines that covers virtually any application.

Constant research and development leads to the integration of state-of-the-art technologies and premium materials into each machine or associated product.

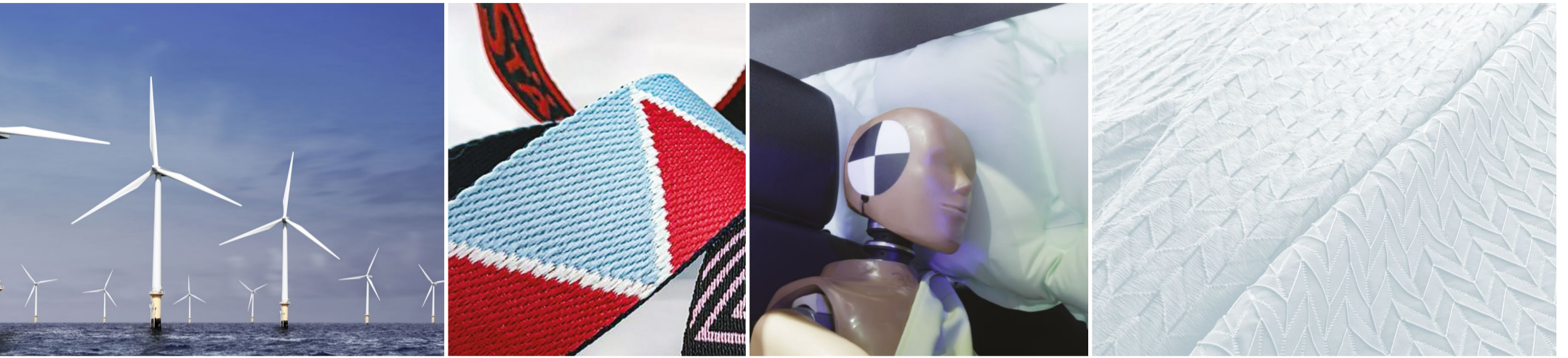
That's one reason why our machinery is renowned worldwide for consistent performance and production efficiency. The new PRO line is designed especially for outstanding energy efficiency.



LX PRO
Formats: 4,608 to 7,680 hooks



LXXL PRO
Formats: 15,360 to 25,600 hooks

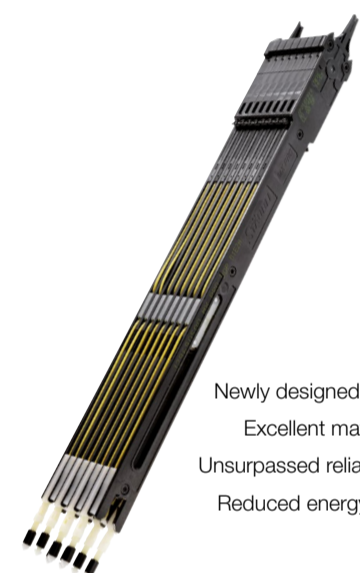


MX PRO module – the link to precision

The compact, maintenance-free MX PRO module forms the heart of the Jacquard machine. It is made of dimensionally stable composite materials chosen especially for longevity. In combination with NOEMI electronics architecture, the module provides reliable hook selection for all kinds of woven fabrics. The overall concept allows temperature monitoring of each module, supports preventive maintenance, and plays a key role in energy savings.

Smart Module Control

The status of the MX PRO module is indicated by an LED on the Smart Module Control electronics board, while detailed information is provided by the Jacquard controller. This supports easy and straightforward access.



- Newly designed electromagnet
- Excellent material quality
- Unsurpassed reliability and lifetime
- Reduced energy consumption

LX12 PRO Jacquard machine – Unleash your creativity in narrow fabric creation

The LX12 PRO Jacquard machine offers several benefits that enhance the weaving process, including:

Adaptability and versatility

It can be perfectly matched with the weaving machine to form an optimal system. 3-position MXV module is particularly suitable for weaving double-faced fabrics. It unleashes your creativity in any narrow fabric creation.

Energy efficiency

The innovative concept with MX PRO and MXV modules ensures optimal energy efficiency in manufacturing fabrics and ribbons. Up to 30% less electrical consumption for hook selection due to advanced design and electronic power supply

Precision

A balanced lifting mechanism for precise operation.

Quick harness changes

Allows for fast fitting and removal of the harness.

Ease of access and low maintenance

Safe and straightforward access for machine adjustments. The machine requires minimal and straightforward maintenance.

User-friendly

TC8 controller is designed to be intuitive.

These features contribute to a Jacquard machine that is efficient, reliable, and capable of producing high-quality narrow fabrics such as ribbons and labels.



LX12 PRO Jacquard machine featuring NOEMI electronic architecture

STÄUBLI IN TÜRKIYE

Proximity is credo

Türkiye has always played a significant role in the global textile industry. The importance and dynamic development of the Turkish market motivated the Group to establish its subsidiary in Türkiye. Stäubli Sanayi Makine ve Aksesuarları Ticaret Ltd. Şti was created in 1996 and started its activity as the major supplier of the Turkish textile industry.

Within its sustainability approach, Stäubli not only delivers machines, but ensures their optimal availability

by providing maintenance services, training, consultation, and supply of original spare parts. Fast shipment of spare parts and rapid service support minimum production downtime in case of an incident.

In order to offer this excellence in technical customer support and service in close proximity, Stäubli has set up offices in Istanbul, Bursa, Denizli and Gaziantep. Our 80 experienced technical staff and sales engineers for the four divisions are all over the country, ensuring a quick response to customers.

In addition to textile machinery activities, Stäubli Türkiye also established its Fluid Connectors division in 2002, its Robotics division in 2004 and its Electrical Connectors division in 2009. With its extension of activities, Stäubli Türkiye relocated to new offices in 2016.



SUCCESS STORY

Partners in innovation and sustainability

Berteks, situated in Bursa, is a family-owned company founded in 1922, now in the hands of the fourth generation. Berteks exports a majority of its production all over the globe. Already back in 1984 its directors have chosen Stäubli machinery to support the expansion towards a versatile product portfolio that requires flexible production means.

Today, the company operates more than 200 Stäubli machines and Jacquard harnesses to weave its wide range of high-quality products, mainly decorative home textiles for curtains and upholstery, made of fancy and dyed yarns.

Innovation based on R&D

Berteks is an innovative and creative company with a strong commitment to R&D. This has allowed the company to expand into sectors like technical textiles, including acoustic products, various coated fabrics, textile-based wallpaper, and naturally textured and high-strength products that are didanstinct on the market.

Just like at Stäubli, where where R&D is in its DNA. Intense and continued R&D in combination with market

proximity and the listening of customers needs, lead to a comprehensive offer with solutions that fit many different woven applications, including the most demanding ones.

Towards greener textile production

Berteks is serious about its ESG (environmental, social, and corporate governance) performance and working on cleaner production materials and techniques with lower environmental impact. In striving towards greener textile production, Noyan says that the production process plays a key role and emphasises:

“Stäubli supports our sustainability efforts with innovative machinery with smooth operation and reduced maintenance, technical support and digital compatibility, performance, high durability, and energy efficiency.”

Partnering – a key to success

Noyan emphasizes that its goals of diversification, productivity, and EGS performance can be met only with the help of reliable partners: “We can count on Stäubli’s broad range and its reliable and quick response when we need service or special support. That’s the basis of our solid long-term partnership.”

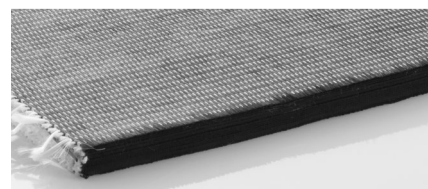


Scan to read more about our solutions for carpet or technical textile applications.



Stäubli News – Carpet weaving

Are you interested in rugs or wall-to-wall carpets for the residential, contract, or the transport sectors? Read about our newly developed ALPHA 580 UNIVERSAL carpet weaving system launched in 2023.



Stäubli TF technical weaving system

Is your focus on highly complex technical fabrics? Scan to learn about the many challenging applications and the corresponding Stäubli weaving solutions.

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