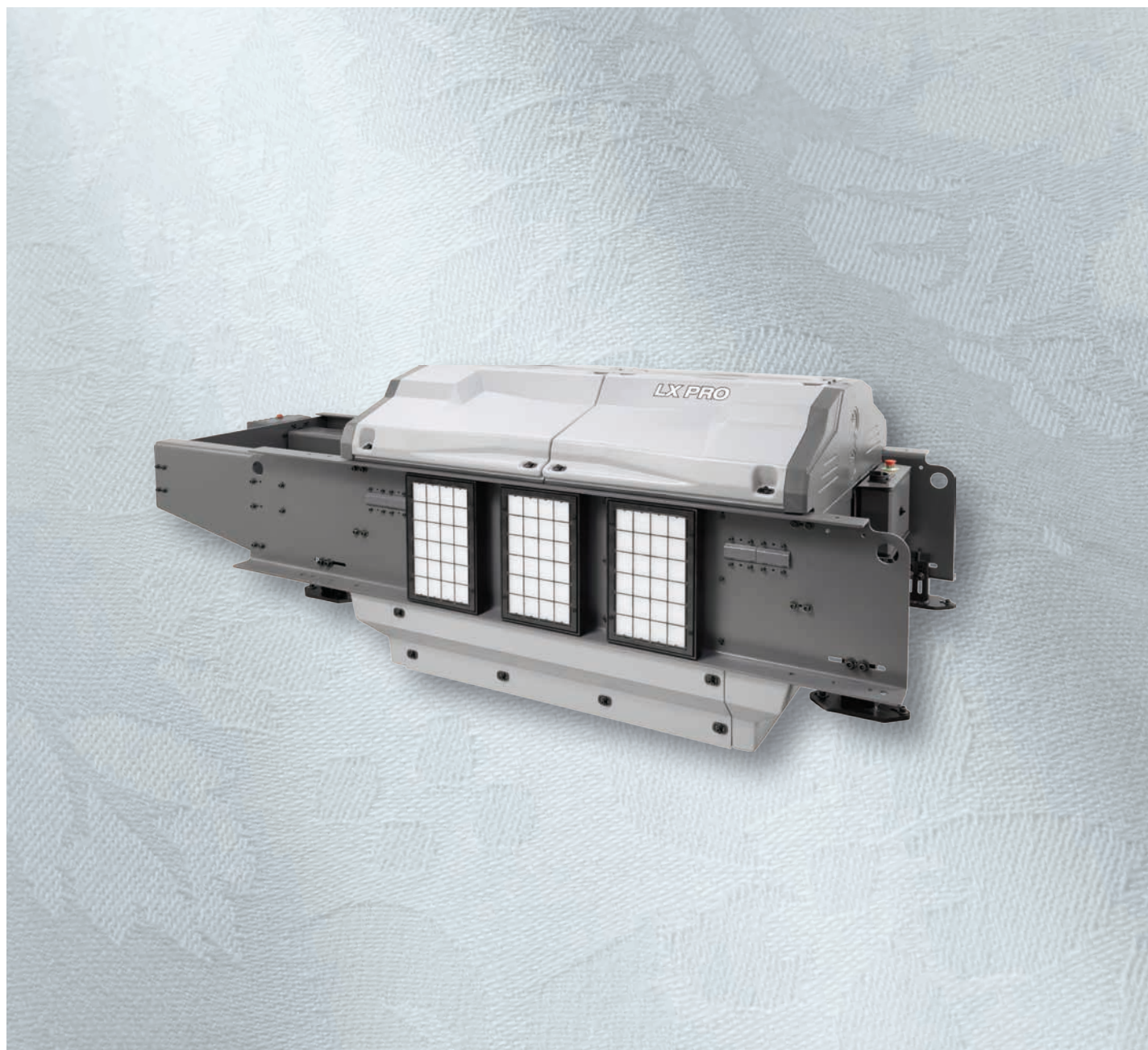


# LX PRO Jacquard machine

**Shedding solution for flat, terry and technical fabrics**



## INTRODUCTION

Universal,  
precise and durable



### **Upgraded ventilation system with optimized temperature monitoring**

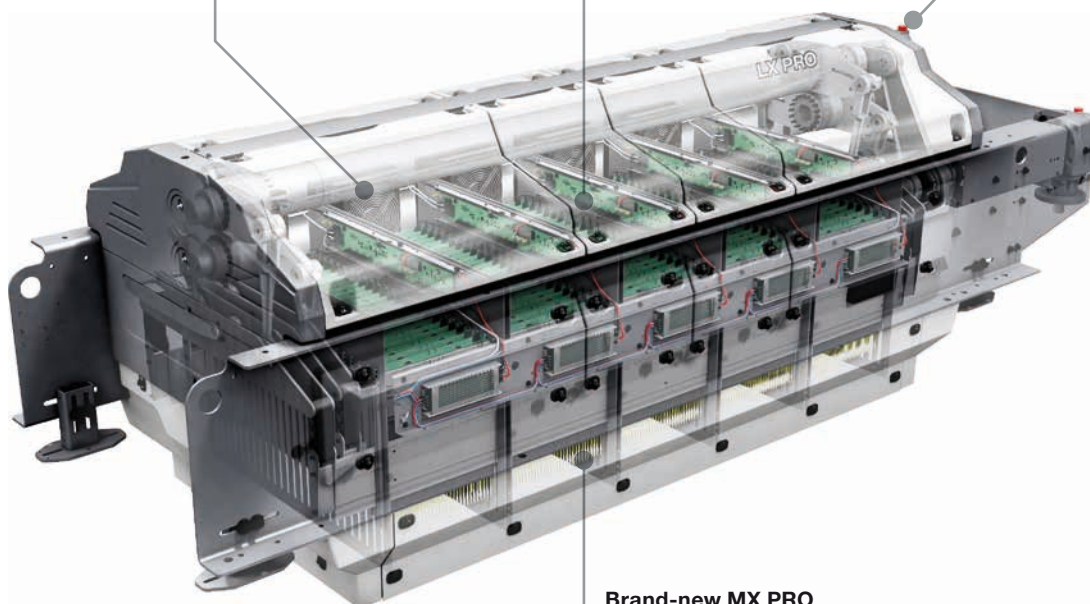
The refined air-cooling system moderates temperatures inside the module, extending the service life of the components and reducing energy consumption.

### **NOEMI – Innovative electronic architecture**

The intelligent electronic architecture ensures precise and verified data transmission during weaving.

### **New power supply design**

The power supply is fully integrated into the Jacquard machine. This eases installation, lowers maintenance and enhances reliability.



### **Brand-new MX PRO module**

The newly designed module provides greater reliability & versatility and lower energy consumption.





### Applications

The Stäubli LX PRO electronic Jacquard machine produces excellent results weaving terry cloth, silk fabrics, tapestry, fabrics for apparel, upholstery or seat covers, and technical fabrics on all types of air-jet, rapier and water-jet weaving machines.

The Jacquard machine is equipped with up to 4608, 6144 or 7680 hooks.

### Design

With our extensive Jacquard expertise, Stäubli LX PRO machine features all the revolutionary concepts both in mechanics and electronic aspects. Its kinematics ensure the performance, precision and reliability.

Mechanically, the reinforced construction made by uncompromising high quality materials commits exceptional reliability and a very long service life in a minimized maintenance.

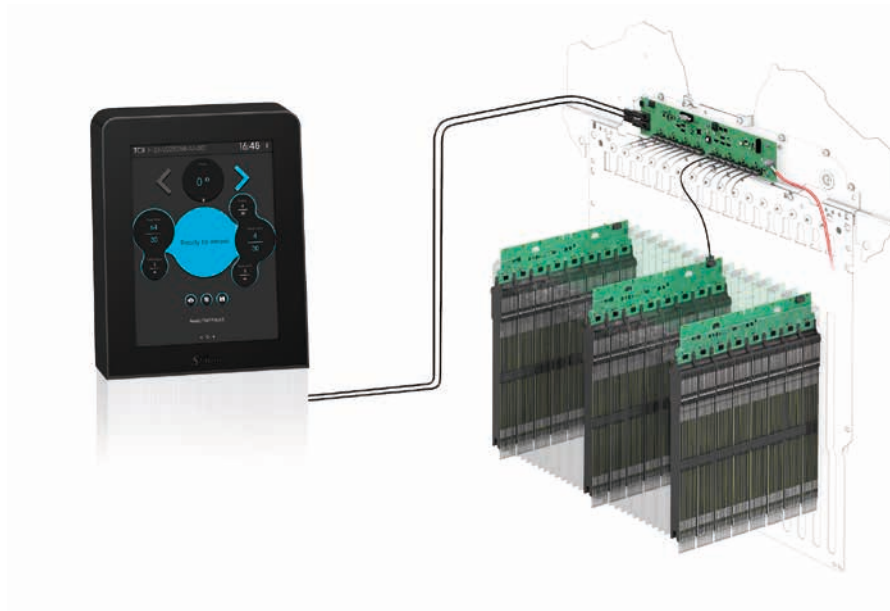
Stäubli Jacquard machines and Stäubli harnesses are a perfect match and can be precisely fitted to the weaving machine to achieve an optimum setup.

### Special advantages

The LX PRO Jacquard machine is very robust and wear resistant. It is designed for many years of daily use with a minimum of maintenance. Because the power supply is integrated into the Jacquard head, the machine is very compact and can be readily installed in any weaving mill :

- Quick and easy to install
- Precise kinematics without vibration
- Low-friction design reduces energy consumption
- Safe, straightforward access to all settings
- Lubricated-for-life bearings throughout
- Optimum sealing and refined ventilation system prevents dust penetration, moderates temperature and as such maximize service life
- Innovative NOEMI electronic concept to ensure flawless data transmission and hook selection

## KEY FEATURES



### Advanced TC8 Controller

The Jacquard installation is equipped with the new-generation Stäubli Jacquard TC8 Controller. The TC8 features intuitive operation, a user-friendly interface, expanded capacity and increased data-transfer connections.

The new controller is compatible with all Stäubli Jacquard machines. It simultaneously communicates the color coding and hooking file to the Jacquard machine and to the weaving machine. The touchscreen provides a clear overview of the operating status, and the software gives the weaver stress-free, responsive control.

The TC8 complies with Industry 4.0 to facilitate the work of operators, technicians and management in weaving mills.

### Innovative NOEMI electronic architecture

Using a reduced number of connections, the new NOEMI electronic control enhances the stability of signal transmission and leaves more space for better air flow between the modules.

The intelligent electronic architecture ensures precise and verified data transmission during weaving.

The new electronics in combination with the new MX PRO module reduce the total energy consumption of the Jacquard machine.

For easy maintenance, the status of each module is displayed by a LED on the Smart Module Control electronic board, while detailed information is provided by the Jacquard controller.



### Brand-new MX PRO module

The MX PRO module is the heart of the Jacquard machine. It provides reliable hook selection for all kinds of woven fabrics. The compact, maintenance-free MX PRO module is made of dimensionally stable composite materials.

The new concept allows temperature monitoring of each module and supports preventive maintenance.

### Selection

Featuring a newly designed electromagnet and excellent material quality, the MX PRO provides unsurpassed reliability and lifetime with reduced energy consumption.

## OPERATING PRINCIPLE

The modern design of the LX PRO incorporates a special lifting mechanism enabling absolutely vibration-free operation, even at high operating speeds. The parallax drive system is characterized by its play-free high load performance. The ultra-sturdy drive elements and the rigid subframe permit even higher loads.



### **Shed adjustment**

Quick and easy shed adjustment to support optimal efficiency of the weaving mill.



### **Kinematics**

Reinforced mechanics are precisely balanced and enables high-speed weaving of very heavy fabrics.

### **Parallax drive principle**

Two parallel shafts are driven by the Stäubli drive box and working in opposition which ensure a precise movement of the knife frames.

## ACCESSORIES

### **Harnesses**

Stäubli harnesses form the perfect link between the Jacquard machine and the warp yarns of the weaving machine. Stäubli's Jacquard machine and harnesses form a precisely matched system, which is a requirement for high-performance weaving.



### **Special advantages**

- Harness cords designed and made by Stäubli, with dust repellent and anti-static treatment
- Easy to mount and adjust
- Optimized pulldown frame with integrated vibration damping
- Easy to install and adjust (QUICK LINK connectors)
- High-quality, carefully selected harness components
- Custom drilled comber board inserted in special heat dissipating aluminium frame

## OPTIONS

Stäubli offers versatile options to perfectly adapt the Jacquard machine to individual needs and requirements in the textile mill.

### **Mechanical false selvage device**

The optional false selvage device offers 1/1 motion by eccentric drive. It enables the false selvages to be set separately from the shed of the warp.

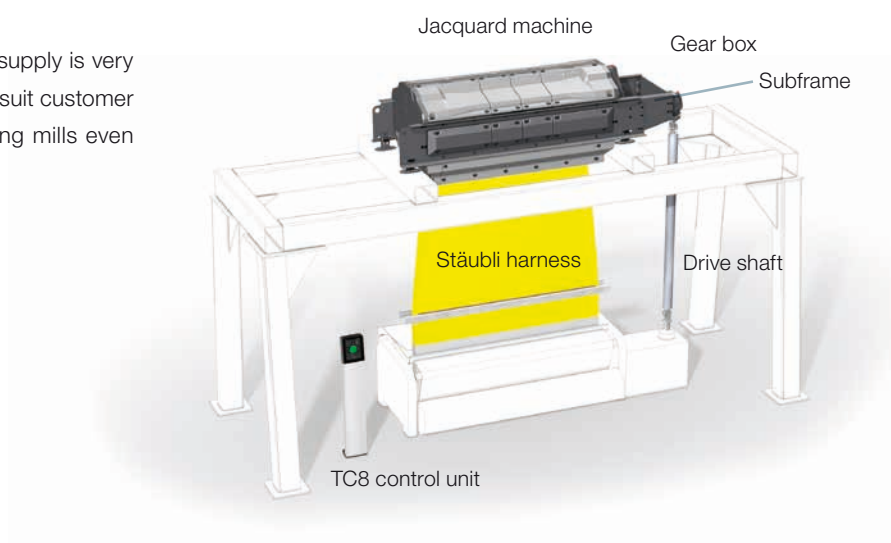
### **Independent Stäubli Drive PRO**

This electronic drive system can be added as an alternative to conventional drive systems.

## ADAPTATION, OPERATION

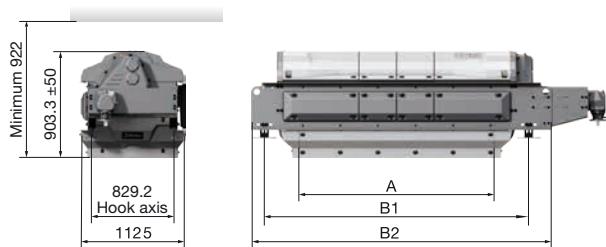
### Dimensions, adaptation

The LX PRO Jacquard machine with integrated power supply is very compact and is available in numerous configurations to suit customer requirements. This enables it to fit into existing weaving mills even where space on the gantry is limited.



## TECHNICAL DATA

### LX PRO



	Format (hooks)	A [mm]	B1 [mm]	B2 [mm]	Weight [kg]
LX PRO	4,608	1,146	1,992 ±50	Variable depending on weaving machine width	max. 1,720
	6,144	1,542	2,388 ±50		max. 1,990
	7,680	1,938	2,784 ±50		max. 2,260

Length/weight is variable depending on the number of hooks in usage.

Main features	LX PRO
Field of application	Rapier, air-jet and water-jet weaving machines
Fabrics suitability	All flat fabrics, terry clothes and technical fabrics
Drive system and shedding	<ul style="list-style-type: none"><li>Double-lift open-shed Jacquard machine</li><li>Knife frames with high-precision guiding system</li><li>The parallax system, driven from one side, ensures a precise movement of the knives</li><li>Precise adjustment of shed geometry</li></ul>
Hook selection	Stäubli MX PRO modules with QUICK LINK connection
Electronic control	Independent Stäubli TC8 controller, synchronized with the weaving machine