

合纖織物

天然纖維織物

碳纖維織物

Synthetic fabrics

Natural fibers fabrics

Carbon fabrics

Tessuti sintetici

Tessuti fibre naturali

Tessuti in carbonio

技術織物織機

macchine per  
la produzione  
di tessuti tecnici

*weaving machines for the production of technical fabrics*

**TRINCA<sup>®</sup>**

macchine per  
weaving machines for the production of technical fabrics la produzione  
di tessuti tecnici

技術織物織機



**TRINCA®**

LA STORIA  
回眸 history

特意佳 (TRINCA) 公司成立於1940年,現已成為研發和製造技術用布織機及其多項專用設備的首要廠家.數十年來專注技術用布織機研發生產所沉澱來的豐厚堅實經驗,加上可持續發展的戰略投資計劃,高層次技術和建設,造就我們在歐洲和世界各地的成功和廣泛的增加銷售量.目前特意佳 (TRINCA) 產品範圍:全電子驅動的織機,客戶現有織機改造套件.技術用布織造特殊裝置,如新型經軸裝置,預卷緯機,布邊焊接裝置和12色選緯裝置等等.

*The TRINCA Company was established in 1940 and is now a leader in the production of weaving machines and many types of special equipment for technical fabrics.*

*A wide investment programme together with the high level of construction technologies developed over years, has contributed to the success and increased sales all over Europe and the World.*

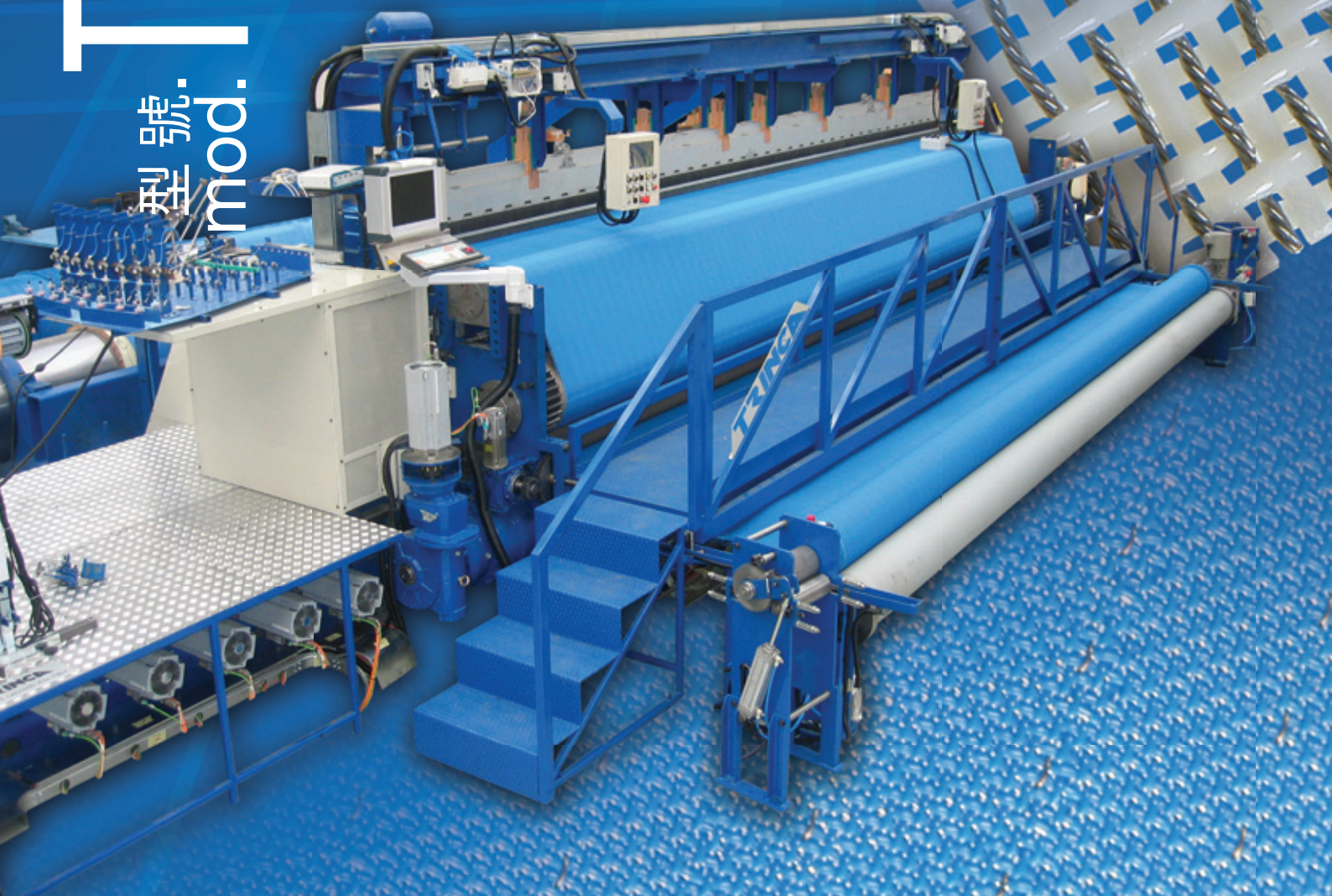
*Currently the TRINCA production has achieved: completely electronically driven weaving machines, conversion kits for existing looms and weaving equipment for technical fabrics such as new warping devices, weft prespoolers, edge welding devices and a 12-colour weft change.*

T.2N.10E/PS

型號.  
mod.

TRINCA®

意大利 特意佳



# 型號. T.2N.10E/PS mod.

超負載型技術用布織機 • Looms of weaving heaviest technical fabrics

特意佳創新的 **T.2N.E/PS** 系列織機是專門為超重型技術用布設計,研發和構建,織造幅寬度為12米及以上.

該 **T.2N.E/PS** 系列融匯現今最前沿的技術,對超重型技術用布織造可達到的高速和高打緯效果,目前市場上無其他織機可匹敵.以下各個獨特性能成就**T.2N.E/PS** 系列作為通用型,多功能廣領域織機,用於織造金屬絲網,產業技術用布,多層結構的傳送帶,建築用布,過濾用布,和造紙產業用毯,成型網,干網等等..



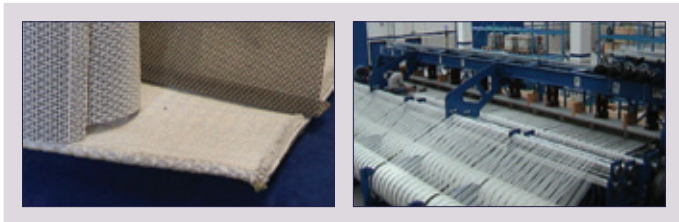
The new TRINCA loom series type **T.2N.E/PS** is designed, developed and manufactured to satisfy the production requirements of weaving heaviest technical fabrics with 12 meter loom width and more. The manufacturing program

of the loom series **T.2N.E/PS** includes all advanced and latest technologies presently available to produce extremely heavy fabrics at high speed and with a power performance which can be reached only with difficulty by other weaving machines on the market at the present time.

Following parts and equipment makes the weaving machine series type **T.2N.E/PS** to be a universal, multipurpose loom, suitable to weave metal wire fabrics, as well as technical industrial fabrics, multilayer fabrics for transport belts, fabrics for architectonic application, filters, felts, forming and dryer fabrics for the papermaking process.

- 專利的引緯系統:  
由2個伺服電機驅動的寬劍桿
- 筘座: 由油浴槽內共軛互補凸輪驅動,打緯時處於開口停頓時段
- 3羅拉控制和捲布裝置
- 直接式布張力和捲布裝置,經單1捲軸
- 機外架式捲布裝置
- 織機所有控制,調節和同步的功能均由個人電腦作電子操控
- 可提供 1 至 10個經軸,每個經軸均由獨立伺服電機作單獨控制
- 特意佳電子開口,每頁棕框均由獨立的伺服電機控制,可高達 56頁棕.每頁棕框的開口調節均可經鍵盤個別細緻的定義
- 可經鍵盤定義為開式或閉式開口織造
- 模塊化高強鋼支撐織機  
電子控制引緯和選色,多達12色

- Weft insertion system (patented) with 2 servomotor driver brandrapiers
- Sley driven by complementary cams, running in oilbath, with a standstill during the beat-up
- 3-roller fabric tensioning and upwinding device
- Direct fabric tensioning and upwinding device with only one take-up beam
- Fabric upwinding device standing outside the loom
- Electronic loom control, regulation and synchronizing of all operating functions by a PC
- Control from one and up to ten in-line running warpbeams, with separate and synchronized tension control, each single warpbeam controlled and driver by a servomotor
- The electronically (by separate servomotors) driven TRINCA dobby, suitable up to 56 heddle-frames, with possibility to control and adjust each single frame by the keyboard
- Weaving possibility with open and closed shed is set by the keyboard
- Modular, very strong steel supporting structure of the loom
- Electronically controlled weft feeding and colour change device, suitable up to 12 colours



## 技術參數:

線徑: 0.10 毫米- 2.00 毫米

紗線原料: 合成纖維,不鏽鋼,高強炭鋼,高含量合金,天然纖維.

## Technical features:

Wire diameter: from 0,10 mm. up to 2,00 mm.

Suitable for weaving following materials: synthetic yarns, stainless steel, high tensile carbon steel, high content alloys, natural fibers

織造速度調節 Weaving speed adjustable from	0 - 100	0 - 110	0 - 120	0 - 140	0 - 150	0 - 160
最大打緯力 十牛頓/米 Maximum beat-up power d N/m	6.500	6.500	8.000	9.000	9.000	9.000
織造幅寬 毫米 Weaving width (mm.)	14.000	12.000	8.000	6.000	5.000	4.000

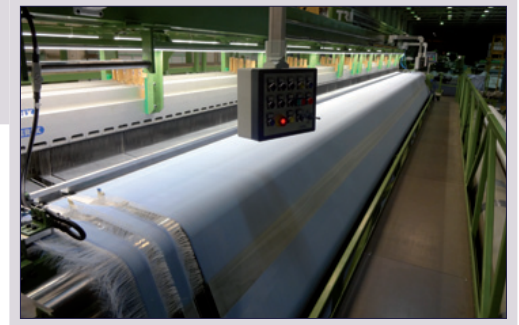
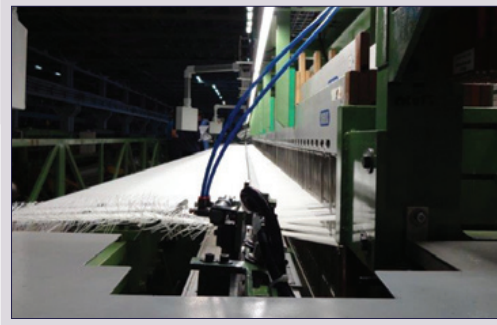
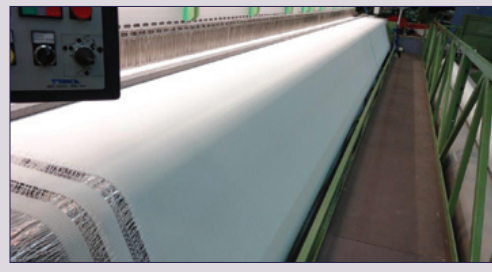
# T.20.10E-PS 11250

型號  
mod.

# TRINCA®

意大利 特意佳





機器冠名闡述:  
**T** = 技術織物織機  
**2N** = 2 劍桿引緯, 帶導勾伺服馬達驅動  
**10E** = 凸輪組數  
**PS** = 超重負荷型結構  
**11750** = 織造幅寬 (可據要求定製各種門幅)

Explanation of the loom type letters and numbers:  
**T** = loom suitable for weaving technical fabrics  
**2N** = weft insertion system with 2 band rapiers, controlled and driven by servomotors by guide hooks  
**10E** = number of mounted slay driving cam groups  
**PS** = heavy loom supporting structure  
**11750** = weaving width (on request be possible all weaving width)

## 技術參數:

- 8色選緯, 伺服馬達驅動;
- 織造幅寬達: 11750 毫米 (可據要求定製各種門幅);
- 最小織造幅寬: 3000 毫米;
- 速度可調: 5-90 轉/分鐘;
- 打(卡)緯力: 65000 牛頓/米;
- 首軸張力: 65000 牛頓/米;
- 次軸張力: 35000 牛頓/米;
- 紗密: 4-100/厘米;
- 紗徑: 0.13-1.20 毫米;
- 經紗張力4位置控制;
- **張力控制系統 特意佳 CTT-8** 伺服電機驅動配置:
- 最大/小緯紗張力設定, 按cN調節, 儲存每緯張力, 並據緯縮調教每打緯張力;
- 可選全幅(特意佳專利)邊撐或側邊撐;
- 伺服電機驅動  
左右鎖邊裝置;
- 2組罐式送經, 伺服電機驅動;
- 3羅拉網布捲取系統, 電腦調控中央羅拉;
- 1組3羅拉網布直接捲取系統特意佳專利;
- 伺服電機驅動電腦操控羅拉位置補償系統;

## 電子旋轉式多臂機意佳型號.R.E.Rz

多臂機闡述:  
**R** = 多臂機  
**E** = 電子式  
**R** = 旋轉式

提綜桿 2至 52支  
 配置有:

- 電腦控制多臂驅動;
- 可調節為開式開口或閉式開口織造;
- 綜框“0”位設定;
- 獨立調節設置每頁綜框;
- 根據織物組織設置每頁綜框上下位置
- 綜框停頓設置;
- 綜框相位設置;
- 織物多組織花型。

## 機器控制裝置:

全方位的機器控制, 包括所有的參數設定和操作功調節均由特意佳 TRINCA 織機管理系統專項研發的電器控制裝置處理. 特意佳管理軟件建基於視窗(Windows)CE作業系統載於工業級個人電腦, 管控全部參數以及所有的控制功能. 全體電子和電器控制裝置均安裝在主電器櫃內。

## TECHNICAL FEATURE OF THE LOOM

- 8 Colours Weft Position Change, driven by Servomotors;
- Max. weaving width 11750 mm (on request be possible all weaving width)
- Min. weaving width 3000 mm
- Weaving speed adjustable from 5 up to 90 rpm
- Beat-up power max. 65000 N/m
- Warp tension first beam 65000 N/m
- Warp tension second beam 35000 N/m
- number of the yarns for cm. Min. 4 – max. 100;
- weft wire diameter min. mm. 0,13 – max. mm. 1,20.
- Warp control tension 4 position;
- **WEFT TENSION CONTROL TRINCA TYPE CTT-8** driven by Servomotors with:  
weft tension setting; maximum/minimum admissible weft tension setting; tension regulation in cN; save all tension for each weft; tension weft curve visualization; weft tension correction for each single pick; weft crimp factor control;
- Possibility to use full temple (TRINCA PATENTED) or lateral temple;
- Left and right Close selvage device, driven by Servomotors;
- n. 2 let off with canister, driven by servomotors
- n. 3 roller take up, regulation of the centre roller by PC
- n. 1 direct 3 roller take-up (Trinca patented) for winding fabric
- Remand roller position control by the PC and driven by Servomotors;

## • ELECTRONIC, ROTARY DOBBY TRINCA TYPE R.E.Rz

Dobby type explanation:

R = Dobby

E = Electronically controlled

R = Rotary

Suitable for driving from 2 to 52 heddle frames complete with:

- doobby driven and controlled by the PC;
- possibility of weaving with open shed and closed shed;
- possibility to put the heddle frames onto its “0” point;
- possibility to control and adjust manually each single frame;
- possibility to adjust the frame position as needed by each fabric pattern and function of frames in the upper or in the lower part;
- possibility of the frame standstill adjustments;
- possibility of the frame phase adjustment;
- fabric Multipatern.

## LOOM CONTROL DEVICE:

The complete loom control, all data settings and operating function adjustments are carried out by the TRINCA electronic control device and the especially developed TRINCA loom managing. All electronically and electric control devices are installed inside the main switchboard and all data's, as well as loom driving and control functions, are developed by an industrial PC with software windows CE.

# T.20.10E-PS 11250

型號  
mod.

# TRINCA®

意大利 特意佳



T.2N.4E-  
P  
6000

型號  
mod.

TRINCA®

意大利 特意佳

6000





# 型號. T.2N.4E-P 6000 mod.

成型網及濾布織機 • Synthetic loom for weave forming and filter fabric

## 機器冠名闡述:

T = 技術織物織機

2N = 2劍桿引緯 帶導勾伺服馬達驅動

4E = 凸輪組數

P = 重負荷型結構

6000 = 織造幅寬 (可據要求定製種門幅)

## 技術參數

- 8色選緯, 伺服馬達驅動;
- 幅寬達: 6000 毫米 (可據要求定製各種門);
- 最小織造幅寬: 2000 毫米;
- 織造布幅調整每邊 2000 毫米
- 速度: 5-140 轉/分鐘;
- 打緯力: 2500 牛頓/米;
- 紗密: 5-200 / 厘米;
- 紗徑: 0.15-0.60 毫米;
- 2組送經4軸伺服驅動;
- 3羅拉網布捲取系統電腦調控
- 可選全幅 (特意佳專利) 邊撐或側邊撐;

### • R.E.R 電子旋轉式多臂機

多臂機闡述:

R = 多臂機

E = 電子式

R = 旋轉式

提綜桿 2 至 52 頁

配置有:

- 多臂機運行由織機主電腦控制;
- 開口方式: 開式開口和閉式開口經由個人電腦編程;
- 極簡易的綜框 "0" 位設定;
- 每頁綜框的各項開口參數均可單獨設置;
- 可依據不同織物組織調節設置每頁綜框上下位置
- 綜框的開口時間曲線和停頓均可調整;
- 綜框的開口時間曲線相位均可調移;
- 織物多組織花型.

## 機器控制裝置:

全方位的機器控制, 包括所有的參數設定和操作功調節均由特意佳 TRINCA 織機管理系統專項研發的電器控制系統處理. 特意佳管理系統建基於載有視窗 (Windows) CE 作業系統的工業級個人電腦, 管控全部參數以及所有的控制功能. 全體電子和電器控制裝置均安裝在主電器櫃內.



Explanation of the loom type letters and numbers:

T = loom suitable for weaving technical fabrics

2N = weft insertion system with 2 band rapiers, controlled and driven by servomotors by guide hooks

4E = number of mounted slay driving cam groups

P = heavy loom supporting structure

6000 = weaving width (on request be possible all weaving width)

## TECHNICAL FEATURE OF THE LOOM

- 8 Colours Weft Position Change, driven by Servomotors;
- Max. weaving width 6000 mm (on request be possible all weaving width)
- Min. weaving width 2000 mm
- Adjustment of the fabric by both sides mm. 2000
- Weaving speed adjustable from 5 up to 140 rpm
- Beat-up power max. 2500 da Nm
- number of the yarns for cm. Min. 5 – max. 200;
- weft wire diameter min. mm. 0,15 – max. mm. 0,60.
- n. 2 let off with 4 warp beams, driven by servomotors
- n. 3 roller take up, regulation of the centre roller by PC
- Possibility to use full temple (Trinca patented) or lateral temple
- **ELECTRONIC, ROTARY DOBBY TRINCA TYPE R.E.R**

Dobby type explanation:

R = Dobby

E = Electronically controlled

R = Rotary

Suitable for driving from 2 to 52 heddle frames complete with:

- doobby driven and controlled by the PC;
- possibility of weaving with open shed and closed shed;
- possibility to put the heddle frames onto its "0" point;
- possibility to control and adjust manually each single frame;
- possibility to adjust the frame position as needed by each fabric pattern and function of frames in the upper or in the lower part;
- possibility of the frame standstill adjustments;
- possibility of the frame phase adjustment;
- fabric Multipatarn.

## LOOM CONTROL DEVICE:

The complete loom control, all data settings and operating function adjustments are carried out by the TRINCA electronic control device and the especially developed TRINCA loom managing. All electronically and electric control devices are installed inside the main switchboard and all data's, as well as loom driving and control functions, are developed by an industrial PC with software windows CE.

Fastrong

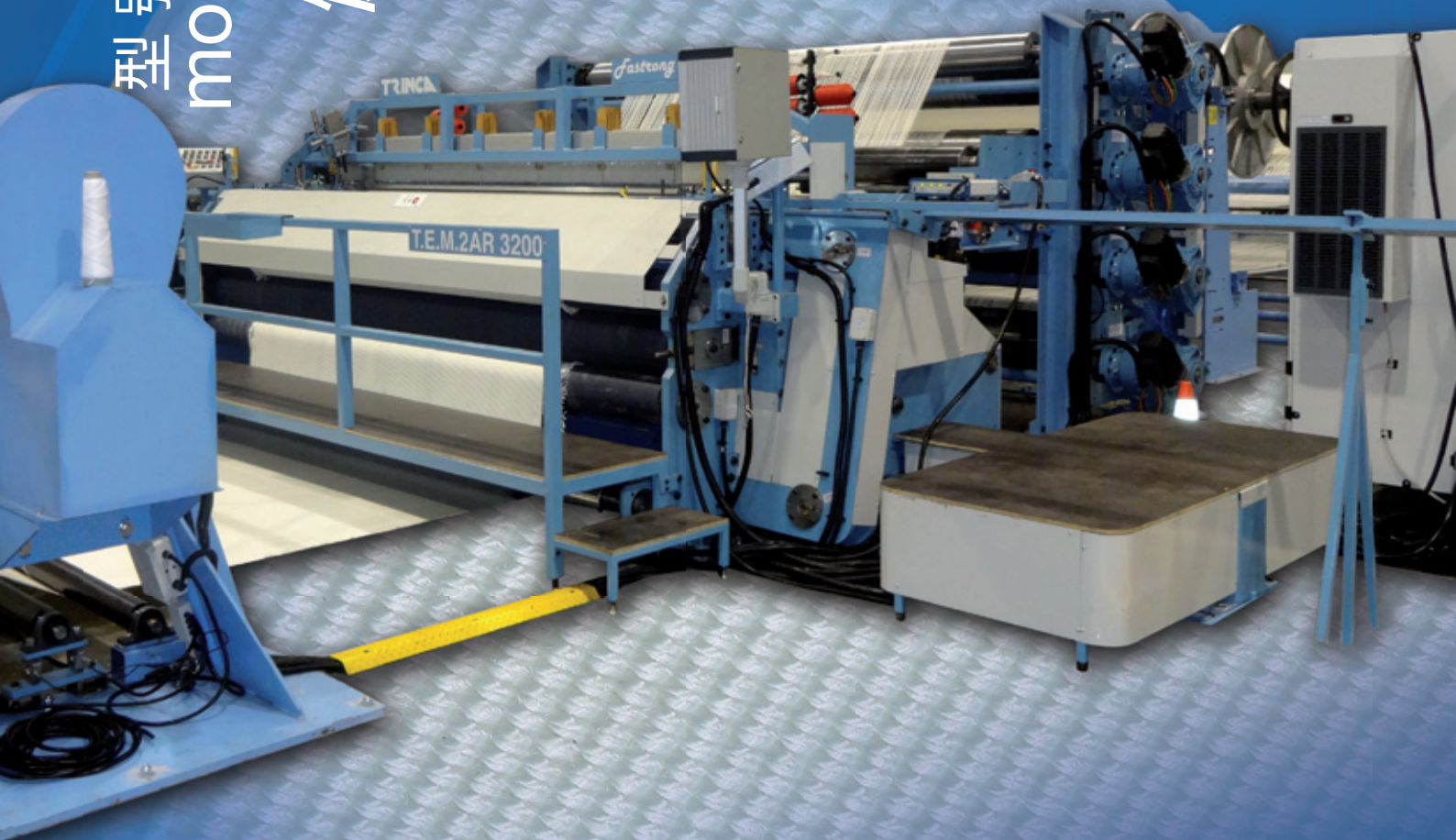
型號  
mod.

快而強 T.E.M.2AR. 3200

TRINCA®

意大利 特意佳

3200



型號  
mod.

# Fastrong T.E.M.2AR.3200

快而強

技術用布高速織機 • Fast weaving loom suitable to weave technical fabrics

機器冠名闡述:

T = 織機

E = 共軛凸輪驅動

M = 中負荷型結構

2AR = 2 剛性劍桿引緯

3200 = 織造幅寬 (可據要求定製各種門幅寬達7米)

Explanation of the loom type letters and numbers:

T = loom

E = driven by eccentric curves

M = medium loom construction

2AR = weft insertion by n. 2 rigid rods

3200 = weaving width (on request be possible weaving in 7m width)

## 織機技術參數

- 織造幅寬: 3200 毫米  
(可據要求定製各種門幅寬達7米);
- 速度可調: 0-250 轉/分鐘;
- 最大打緯張力: 3,000十牛頓/米;
- 最大經紗張力: 2,000十牛頓/米;
- 模組式鋼結構;
- 3 組互補共軛凸輪組驅動
- 3-羅拉 捲取帶網布張力恆定裝置
- 3-羅拉 經紗張力裝置備  
配獨特軟件作軸向控制及  
荷重元控制
- (可採用常規送經軸);
- 4 位置經紗張力控制;
- 特意佳電子旋轉式多臂機型號 R.E.R 多臂機型號闡述:  
R = 多臂機  
E = 電子式  
R = 旋轉式  
提綜桿 2 至 52 頁,備置有:
  - 多臂機驅動和控制經由個人電腦;
  - 可進行閉式開口或開式開口織造;
  - 可控式將綜框開到“0”度位置;
  - 每頁綜框可作獨立的控制和手動精調;
  - 可據不同織物花型設計或功能需要,  
對每頁綜框的上開口或下開口進行調節;
  - 綜框的開口和停頓時間可調;
  - 綜框開口曲線相位可調;
  - 可實現網布多花型..

## TECHNICAL FEATURE OF THE LOOM

- Weaving width: mm 3200 up to 7000m;
- Adjustable speed from 0 up to 250 rpm;
- Maximum beat-up tension: daN/m 3.000;
- Maximum warp tension: daN/m 2.000;
- Modular steel structure with;
- n. 3 complementary driving cams;
- 3-ROLLER TAKE-UP with CONSTANT FABRIC TENSIONING DEVICE;
- 3-ROLLER WARP TENSIONING DEVICES equipped with its software for the axis control and load cells control (possibility to have a normal let-off beam);
- Warp control tension 4 position;
- **ELECTRONIC, ROTARY DOBBY TRINCA TYPE R.E.R 12**  
Dobby type explanation:  
R = Dobby  
E = Electronically controlled  
R = Rotary  
Suitable for driving from 2 to 52 heddle frames complete with:
  - doobby driven and controlled by the PC;
  - possibility of weaving with open shed and closed shed;
  - possibility to put the heddle frames onto its “0” point;
  - possibility to control and adjust manually each single frame;
  - possibility to adjust the frame position as needed by each fabric pattern and function of frames in the upper or in the lower part;
  - possibility of the frame standstill adjustments;
  - possibility of the frame phase adjustment;
  - fabric Multipatern.

## 機器控制裝置:

全方位的機器控制,包括所有的參數設定和操作功調節均由特意佳 TRINCA織機管理系統專項研發的電器控制裝置處理.特意佳管理軟件建基於視窗(Windows)CE作業系統載於工業級個人電腦,管控全部參數以及所有的控制功能.全體電子和電器控制裝置均安裝在主電器櫃內.

## LOOM CONTROL DEVICE:

The complete loom control, all data settings and operating function adjustments are carried out by the TRINCA electronic control device and the especially developed TRINCA loom managing. All electronically and electric control devices are installed inside the main switchboard and all data's, as well as loom driving and control functions, are developed by an industrial PC with software windows CE.



T.E.P.A.R.

型號  
mod.

TRINCA®

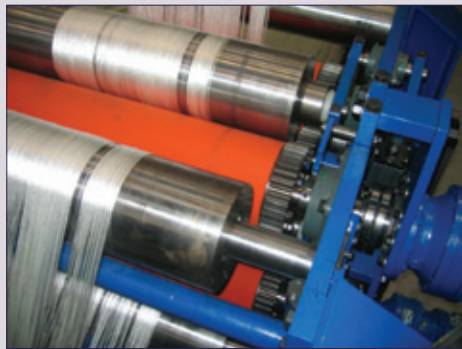
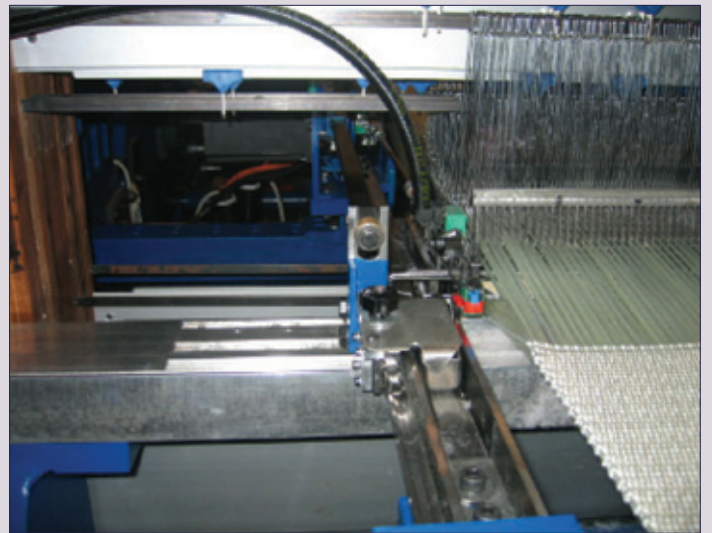
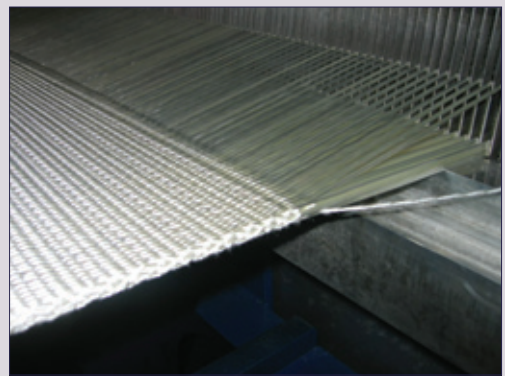
意大利 特意佳



# 型號. T.EP.AR mod.

傳送帶,多層織物,過濾布,塗板帶織機

Weaving machines for weaving transport belts, multi-layer fabrics, filters and corrugator



## 技術參數:

線徑: 20/6, 26/4, 10/12, 10/26

紗線原料: 合成纖維, 凱夫拉, 碳纖和天然纖維

最大打緯張力: 6,000 十牛頓/米

速度: 可達 140 緯/分鐘

幅寬: 1,000毫米至2,000毫米

引緯: 鋼性桿

## Technical features:

*Wire diameter:* 20/6, 26/4, 10/12, 10/26

*Type of the yarn:* synthetic, kevlar, carbon and natural fibers

*Max beat-up tension:* 6000 daN/m

*Max beat-up speed:* 140 rpm

*Weaving width:* from 1000 mm. up to 2000 mm.

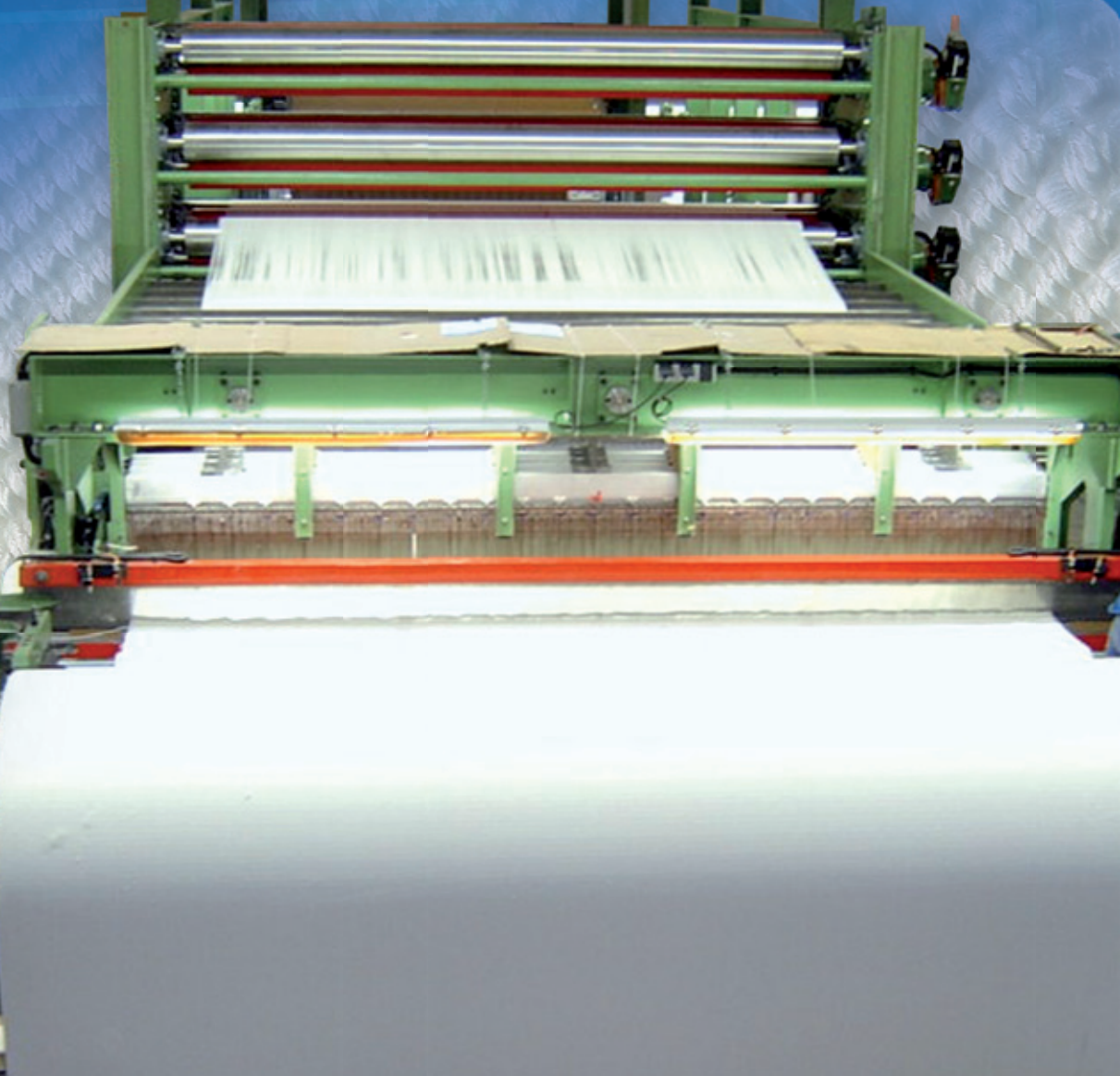
*Weft insertion:* by rigid rod

T.M.V.B.

型號.  
mod.

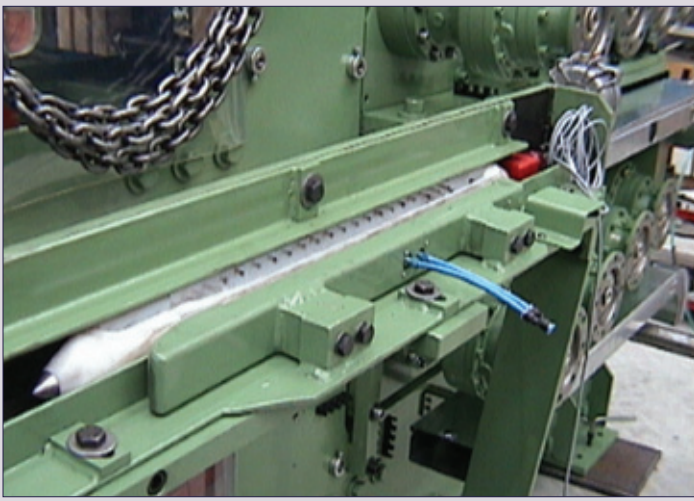
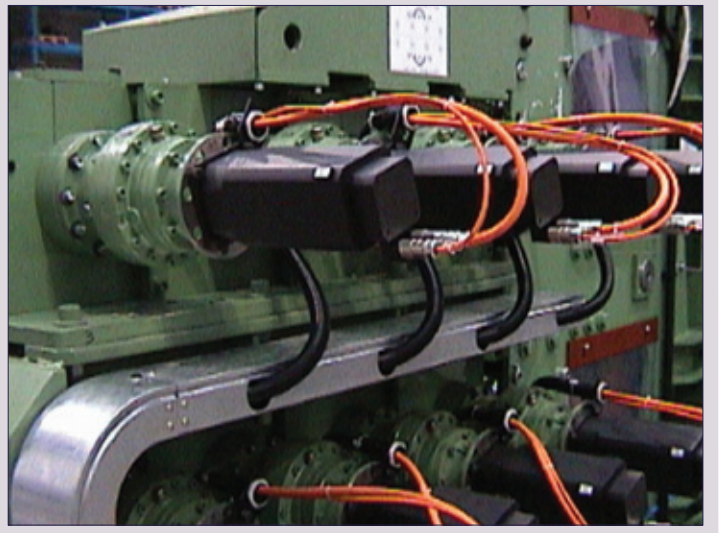
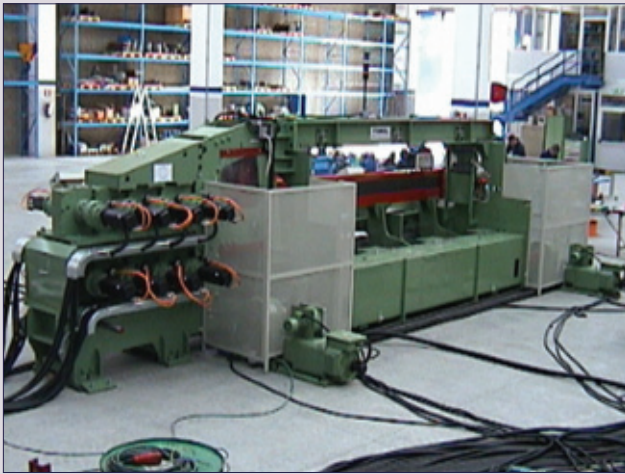
TRINCA®

意大利 特意佳



型號. **T.NU.B**  
mod.

技術用布,多層結構傳送帶,濾布及管狀織物 有梭織機  
*Shuttle looms for technical weaving, multi-layer transport belts, filters, unles*



## 技術參數:

線徑: 20/6, 26/4, 10/12, 10/26

紗線原料: 合成纖維,凱夫拉,碳纖和天然纖維

最大打緯張力: 10,000 十牛頓/米

速度: 可調 1 至 80 緯/分鐘

幅寬: 1,000毫米至 12,000毫米或更寬

引緯: 梭子

## Technical features:

*Wire diameter:* 20/6, 26/4, 10/12, 10/26

*Type of the yarn:* synthetic, kevlar, carbon and natural fibers

*Max beat-up tension:* 10000 daN/m

*Speed:* setting from 1 to 80 pick./min.

*Weaving width:* from 1000 mm. to 12000 mm. and above

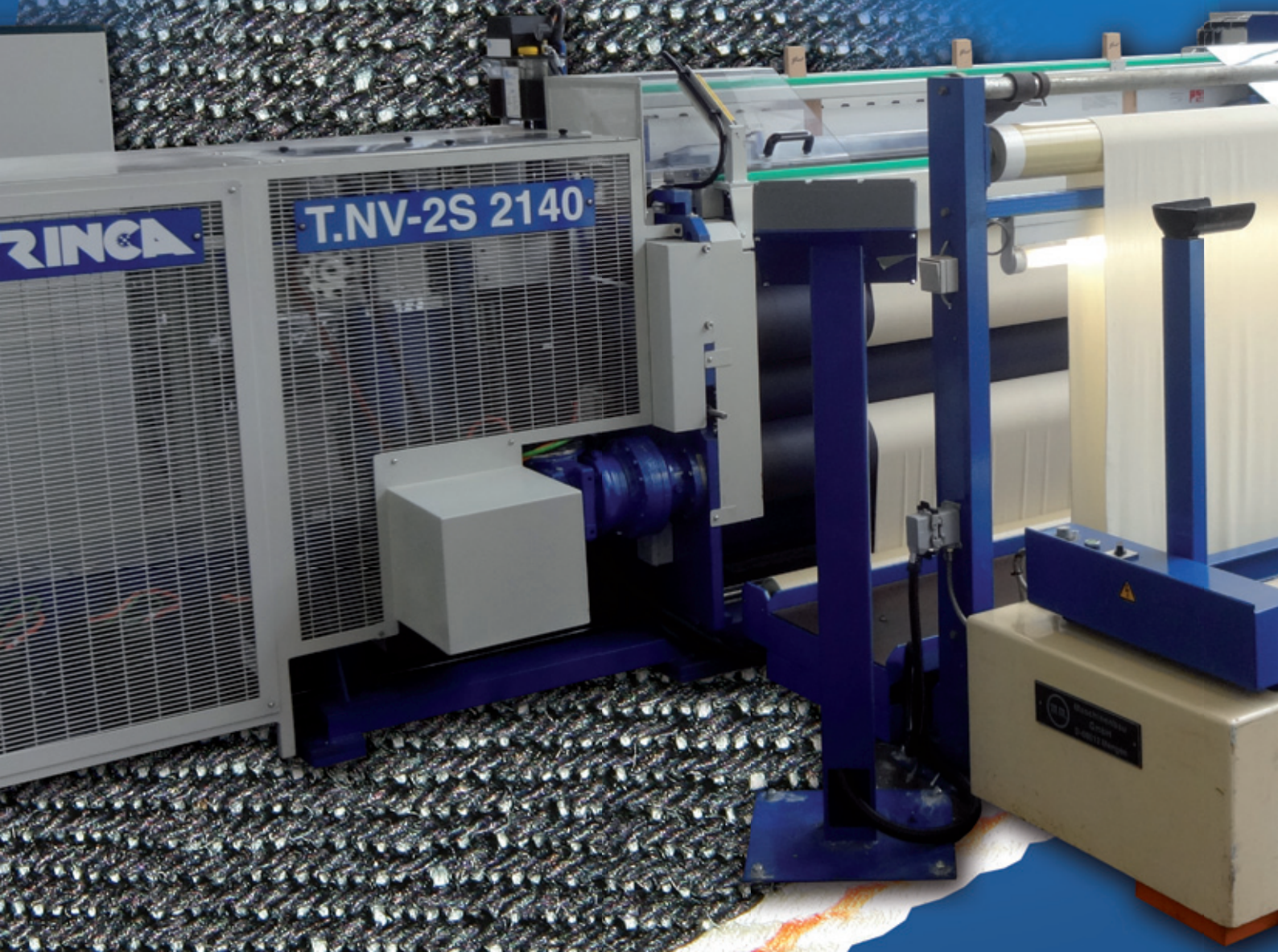
*Weft insertion:* by shuttle

T.NV-2S  
2140

型號.  
mod.

TRINCA®

意大利 特意佳





# 型號. mod. T.NU-2S 2140

技術用布, 牛仔布, 管狀織物有梭織機帶自動紆子更換裝置 UNI-E 250  
Shuttle looms with automatic change spool device type UNI-E 250 for technical fabrics, denim, and unless fabrics

機器冠名闡述:

- T = 織機
- NU = 帶1 投梭
- 2S = 帶 2 伺服電機
- 2140 = 織造幅寬 (可據要求定製各種門幅)

## 織機技術參數

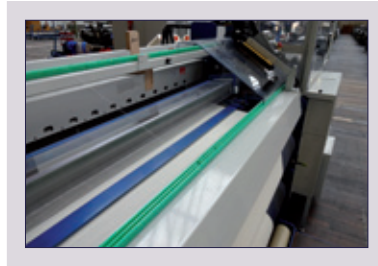
- 織造幅寬: 1000毫米 至 2140 毫米  
(可據要求定製各種門幅);
- 適合織造平布和管狀織物;
- 紗密度調: 5 - 200/厘米;
- 速度: 最高達 150 緯/分鐘;
- 最大經紗張力: 1500 十牛頓/米

## 投梭驅動系統(特意佳專利)控制方式:

- 2 組由伺服馬達驅動的齒條分別架於織機左右兩側  
(齒條將梭子由左投向右,反之亦然)
- 2 個由電腦設定,馬達驅動的制停裝置將梭子捕抓在精確的位置

## 特意佳電子旋轉式多臂機 型號 R.E.R

- R = 多臂機
  - E = 電子式
  - R = 旋轉式
  - 12 = 提綜桿 2 至 52 頁:
- 多臂機運行由織機主電腦控制;
  - 開口方式: 開式開口和閉式開口經由個人電腦編程;
  - 極簡易的綜框“0”位設定;
  - 每頁綜框的各項開口參數均可單獨設置;
  - 可依據不同織物組織調節每頁綜框;
  - 綜框的開口時間曲線和停頓均可調整;
  - 綜框的開口時間曲線相位均可調移;
  - 可應用於織造多層織物 (利用織物綁結組織).



## 自動紆子更換裝置 UNI-E 250

- UNI = 自動更換紆子
- E = 電子式
- 250 = 梭子尺寸 250 毫米

整套紆子捲紗器及在織機上自動更換裝置,其全部參數均通過個人電腦設置

## 機器控制裝置:

全方位的機器控制,包括所有的參數設定和操作功調節均由特意佳TRINCA織機管理系統專項研發的電器控制裝置處理.特意佳管理軟件建基於視窗(Windows)CE作業系統載於工業級個人電腦,管控全部參數以及所有的控制功能.全體電子和電器控制裝置均安裝在主電器櫃內.

Explanation of the loom type letters and numbers:

- T = weaving machine
- NU = with 1 Shuttle
- 2S = with 2 Servomotors
- 2140 = weaving width (on request be possible all weaving width)

## TECHNICAL FEATURE OF THE LOOM

- Maximum weaving width: mm. 2140 – min. mm. 1000  
(on request be possible all weaving width);
- The loom is suitable for weaving tubular fabrics and flats;
- Adjustable wire/cm. max. 200 – min. 5;
- Max speed from 150 rpm;
- Maximum warp tension: daN/m 1500.

## SHUTTLE DRIVING SYSTEM (TRINCA PATENTED) controlled by:

- 2 toothed racks driven by Servomotor and mounted at the left and right of the weaving machine; (the toothed cracks throw the shuttle from right to left and the other way round)
- 2 motorized brakes autsetting by PC that block shuttle in position exact;

## ELECTRONIC, ROTARY DOBBY TRINCA TYPE R.E.R 12

Dobby type explanation:

- R = Dobby
  - E = electronically controlled
  - R = rotary
  - 12 = suitable for driving from 2 to 52 heddle frames
  - Dobby control by the means of the loom main PC
- Operating mode: OPEN SHED and CLOSED SHED setting to be selected by the PC-program
  - easy “0” point setting of the heddle frames
  - manually control and separate position setting of each single heddle frame
  - adjustment possibility of the heddle frame timings and stops
  - adjustment possibility of the heddle frame phase timing and exchange.

## ELECTRONIC DEVICE UNIFIL TYPE UNI-E 250

- UNI = unifil
- E = electronic
- 250 = lenght shuttle mm. 250

complete with device winding shuttle with automatic direct change in the weaving machine and with adjustment of the parameters by PC.

## LOOM CONTROL DEVICE:

The complete loom control, all data settings and operating function adjustments are carried out by the TRINCA electronic control device and the especially developed TRINCA loom managing All electronically and electric control devices are installed inside the main switchboard and all data's, as well as loom driving and control functions, are developed by an industrial PC with software windows CE.

T.2N.T

型號.  
mod.

TRINCA®

意大利 特意佳



回應環保訴求,國際市場對自然纖維織物需求與日俱增加,織物由:劍麻,椰殼,紙,羊毛,棉花等織成.

天然纖維織物,可在環境中生物降解,現被更廣使用在技術裝飾應用中:

室內裝潢,家具,成衣和包裝.



The international market is ever more oriented towards NATURAL fabrics; fabrics woven from **SISAL** (hemp), **COIR FIBER**, **PAPER**, **WOOL**, **COTTON**.

Natural fabrics are biodegradable and are widely used in decorative technical applications, in interior decoration and furnishing, for

ready-made clothing and for packaging. The new **T.2N.T** weaving loom has been designed to meet these market demands.

It offers the possibility to operate fully automatically and with minimum attendance by personnel which has only to check the functioning. The **T.2N.T** weaving loom was designed using advanced technology and incorporates the ample experience that TRINCA has been able to accumulate over the years in the design of weaving machines for wire and synthetic fabrics.

The weft wire is inserted by two rapiers (feeding and drawing) with weft transfer in the centre and with electronic control.

The front regulator for fabric feed, the rear regulator for warp let-off motion and the upper regulator for Bouclè weave feature electronic control, and the input for number of threads is every 10 cm.

The tension control for warp and Bouclè is visualized on the screen and ensures optimum quality and repeatability of the finished product.

新型 **T.2N.T** 織機, 專為此市場需求而研發.

提供全自動操控,將人手需求降到最低,只需人員從事監控.

**T.2N.T** 織機,集先進技術於一身,薈萃了特意佳(TRINCA)金屬絲網和合成纖維網布方面,長期而豐碩的經驗.

緯線由兩組件劍桿引入(送紗和接紗),劍桿在中心位置交換,全程由電子準確控制.前端的送經調控,後端的捲取控制,上方為花紗織造而設的控制,全由電子監控,織造密度可按每10厘米為單位,直接輸入經紗和花紗織造張力控制,在顯示屏上作可視化操控,優化產品質量和保障重複再現性.

### 技術參數:

織機型號:	T.2N.T (雙劍桿織機,紡織牆布)		
織造幅寬:	2200 / 4150 / 5150毫米 (其他幅寬可據要求供貨)		
紗線原料:	劍麻,椰殼纖維,棉花,紙和其他		
織造密度:	每厘米2 至 999.9		
速度:	2200毫米 /4150毫米 /5150毫米		
每分鐘	130	90	80
綜框驅動:	偏心 10- 12頁; 多臂 10- 12頁;		
織機主架:	模塊化鋼結構		
箱座:	由2個或3個曲柄驅動根據織機幅寬		
捲布軸:	由獨立捲取裝置,最大直徑1400毫米		
引緯:	2 組電子控制繞性劍桿		
調節器:	後,前,結子紗均帶電子控制		
緯紗控制:	電子		
送經/結子紗張力控制:	電子		
打緯力:	60000 牛頓		
機器重量:	2200毫米	4150毫米	5150毫米
(約)	7000公斤	13000公斤	15000公斤

### Technical features:

**Machine type:** T.2N.T (weaving loom - 2 rapiers - textile wall coverings)

**Weaving widths:** 2200 - 4150 - 5150 mm. (others widths upon request)

**Materials:** sisal (hemp) - coir fibre - cotton - paper - and others

**Thread per centimetre:** from 2 to 999,9

**Machine speed:** 2200 mm. 4150 mm. 5150 mm.

**Picks/minute:** 130 90 80

**Heald frame drive:** eccentric motion 10-12 healds  
dobby 10-12 healds

**Machine frame:** modular steel construction

**Slay:** driven by crankshaft with 2 or 3 cranks according to weaving width

**Cloth take-up:** by separate take-up, maximum roll-dia. 1400 mm.

**Weft insertion:** 2 flexible rapiers with electronic control

**Regulators:** front - rear - Bouclè - with electronic control

**Weft control:** electronic

**Tension control for let-off/Bouclè:** electronic

**Beat-up force:** 60000 N

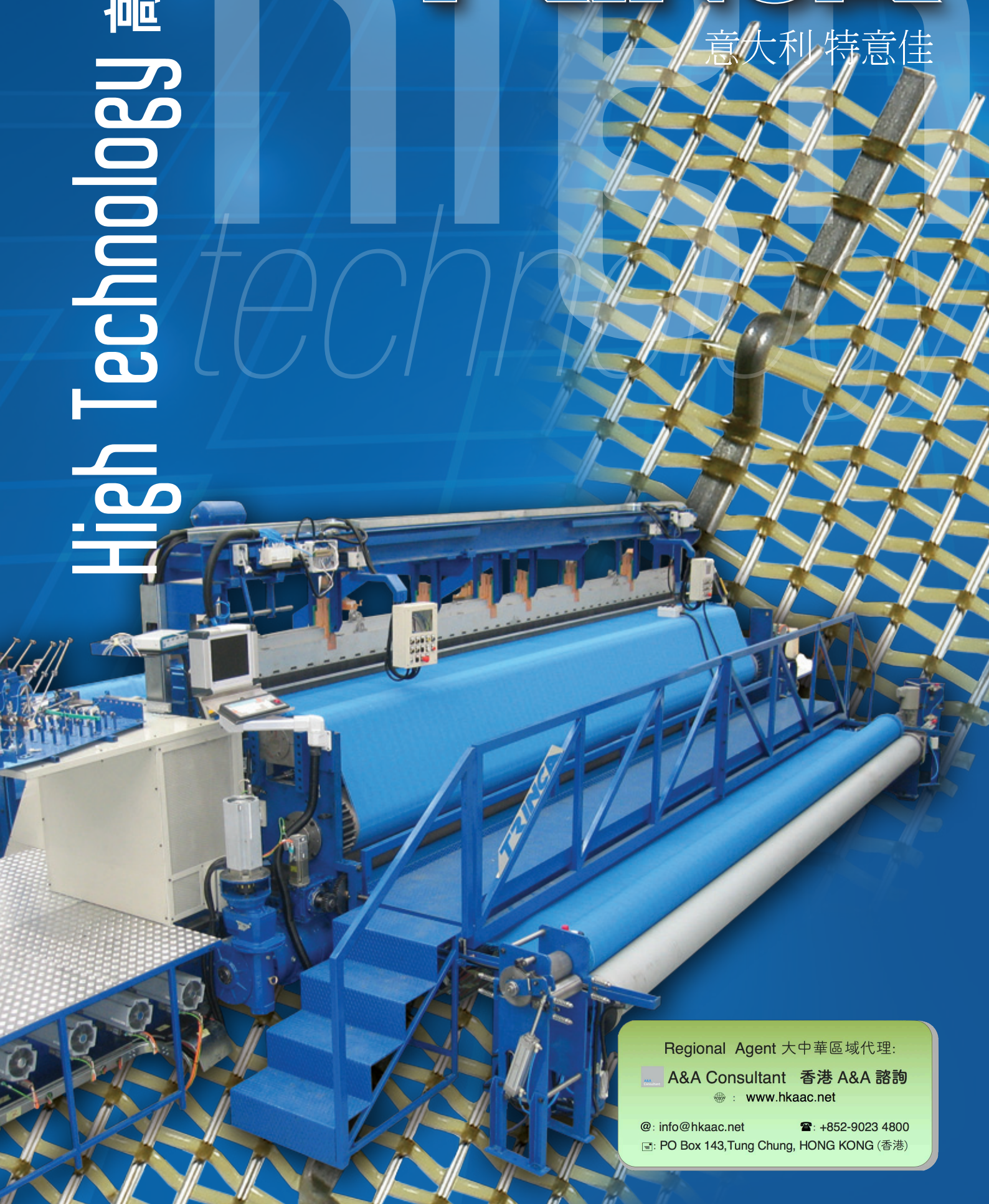
**Machine weight:**

2200 mm. 4150 mm. 5150 mm.  
(approx) 7000 Kg. 13000 Kg. 15000 Kg.

High Technology 高科技

TRINCA<sup>®</sup>

意大利 特意佳



Regional Agent 大中華區域代理:

A&A Consultant 香港 A&A 諮詢

www.hkaac.net

@: info@hkaac.net

☎: +852-9023 4800

📧: PO Box 143, Tung Chung, HONG KONG (香港)

國際市場對高端高品質織物需求日益增加,意味更多高新技術的應用,織物趨向非常多元化規格,和極廣泛的應用領域

特意佳公司,應用其技術和豐富的經驗,專門打造了一個嶄新系列設備,配備了許多“高科技”裝置和器材,以滿足現時市場的需求.從而使我們久經考驗並廣受稱譽的“T.N.E.”系列織機,可據每個客戶的特殊需求進行配置.

“高科技”系列薈萃了我們多年來製造特殊織機和裝置

所集成的技術知識,能極有效的應對

下述產品及其相關領域:

- 各種金屬絲織物和絲綢
- 建築應用織物和絲綢
- 天然纖維織物和地毯
- 合織織物和環狀織物
- 多層結構織物

我們“TNE”系列織機其中一項很重要的附加功能就是可配套極廣泛的**模塊化設備和裝置**如下述所示:

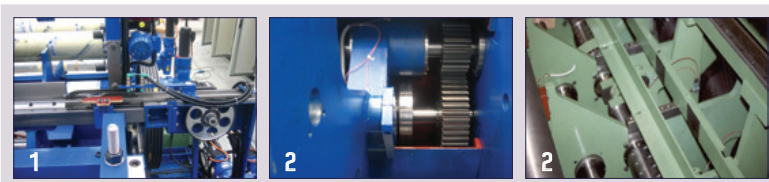
The international markets require more and more woven top quality products with a high level of technological content, fabrics with very diversified specifications to be used for many different application.

On course to meet the requirements of these markets and applying all our technical experience, TRINCA achieved a new machinery-line, which can be fitted with several “high tech” devices and equipment. This allows to customize every loom of our already well introduced weaving machine line “T.N.E.” and to build it for the very individual need of each single customer.

The machinery-line “HIGH TECHNOLOGY” incorporates all technical knowledge developed in many years as manufactures of special machinery and equipment and is intended to serve all branches for the production of:

- each kind of metal wire fabrics and wire cloth
- fabrics for architectonic applications
- natural fiber fabrics and carpets
- synthetic fabrics and felts
- multi-layer fabrics

The most important additional feature on our weaving machines “T.N.E.” is the possibility to fit them with range of **modular equipment and devices**, as follows:



### 1 引緯系統(專利)

- 帶伺服電機驅動的劍桿
- 帶兩個伺服電機驅動的劍桿
- 有梭引緯系統,適合合織織物,毛毯,單層或多層結構織物,需閉合式光邊織物等的織造

**Weft insertion system (patented)**

- with one servomotor driven bandrapier
- with two servomotor driven bandrapiers
- with a shuttle weft insertion system, suitable to weave synthetic fabrics and felts, single or multilayers, with closed weaving edges

### 2 狛座運動

- 油浴槽共軛互補凸輪驅動
- 油浴槽曲柄驅動

**Sley movement**

- driven by complementary cams, running in oilbath
- driven by a crankshaft, running in oilbath

### 3 電子控制調節器

- 可據所需的“目數”,“厘米”或“法蘭碼”調節織造織物,由伺服電機控制和調節經紗張力

**Electronic controlled regulators**

- possibility to weave fabrics with regulations as “mesh”, “cm” or “french number”; warp-tension control and regulation by servomotors



### 4 經軸

- 織機可配套不同類型經軸,例如:
  - 無邊經軸或有邊盤經軸
  - 筒型經軸
- 2個或更多的經軸併成“線”配套到有單獨支撐的織機上,由伺服電機獨立控制和調節經紗張力

**Warpbeams**

- the loom can be equipped with different warpbeams types, such as:
  - single-flat warpbeams; ring-or stir warpbeams
  - warpbeams with canister
- 2 or more warpbeams running “in line” and fitted to the loom with a separate supporting structure, controlled by servomotors for the separate warp-tension control and regulation

### 5 三羅拉織物張力裝置

- 由三羅拉系統調節織物張力和目數,經伺服電機控制

**3-roller fabric tensioning device**

- the fabric tensioning and the mesh adjustment is carried out by a 3-roller system, controlled by servomotors



### 6 織物直接張力裝置

- 織物張力和目數調整在單一經軸進行,適合應用於紗架直接捲取織造

**Direct fabric tensioning device**

- the fabric tensioning and mesh adjustment is carried out by only one beam, suitable also for the direct upwinding of the woven fabric

### 7 綜框驅動(專利)

- 採用特意佳自行研發的多臂機,由個人電腦操控伺服電機驅動,所有綜框可由鍵盤獨立調整除了眾多的優勢外,此多臂機還可作開式開口或閉式開口織造,只需通過個人電腦按鍵便可改變模式

**Heddleframe movement (patented)**

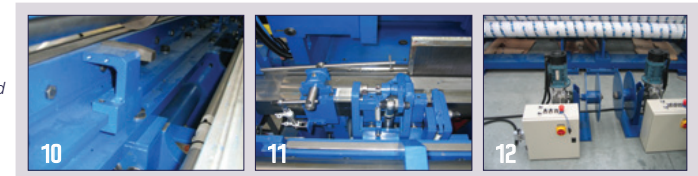
- with a TRINCA DOBBY, driven by servomotors and controlled by a PC, which allows to carry out all heddleframe adjustments, one independent from the other by the keyboard. Beside numerous further advantages, this dobby allows also to operate with “open shed” or “closed shed”, operating mode changed only by a key on the PC

### 9 特意佳軟件

- 標準程式,也可據客戶要求量身制定

**The TRINCA software**

- standard programs can be customized for individual requests



### 10 電動切割裝置

- 在織造過程中,於織機上按要求直接將織物切割成不同的條帶

**Motorized cutting devices**

- for a fabric cut in different strips directly on the loom during the weaving process

### 11 氣動剪刀裝置(專利產品)

- 作為緯紗準備和剪紗用途,由個人電腦控制

**Pneumatic scissor devices (patented)**

- for the weft preparing and cut, controlled by the PC

### 12 廢邊裝置

- 獨立電機驅動,廢邊紗張力可調節

**Weaving edge waste accumulators**

- separately motorized, with tension adjustment of the waste

# High Technology

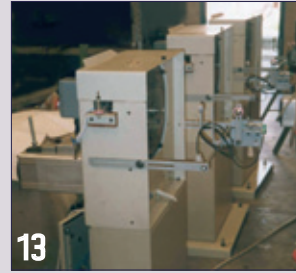
意大利特意佳絲網/技術用布織機薈萃最前緣高科技

## 13 預卷緯儲緯機 (專利產品)

- 預卷緯儲緯機有3個不同的尺寸, 型號: T300, T600, T1000. 均可連接織機, 適用於各種原料類型和不同線徑的紗線

### *Weft prespooler (patented)*

- three prespooler models, T300 - T600 and T1000, built in 3 different dimensions, prepared to be connected to the loom and suitable for each diameter and material quality to be woven



## 14 整經裝置

整經機 配備了微處理器, 適用於經紗張力控制和調整:

- 錐形無邊經軸整經裝置
- 有邊盤經軸整經裝置
- 筒型經軸整經裝置

### *WARPING DEVICES*

*Beamers* equipped with microprocessors, suitable for the tension control and adjustment of the warp:

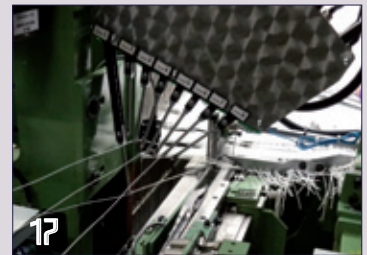
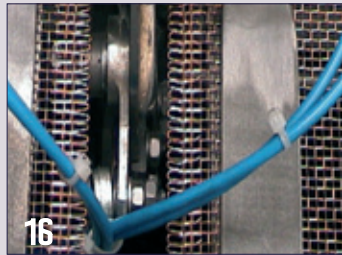
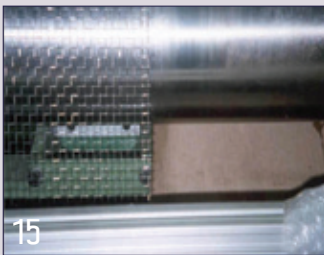
- warping devices for flat warpbeams with conical warping
- warping devices for ring (stir) warpbeams
- warping devices for canister

## 15 織邊焊接邊裝置 (用於織造傳送帶)

- 安裝此裝置到織機上, 於織造過程可直接切割和焊接布邊

### *Weaving edge welding devices for transport belts*

- this device is prepared to cut and to weld the edges directly on the loom during the weaving process



氣動式/Pneumatic

馬達式/Motorized

## 16 折入邊裝置(專利)

- 在織造過程中, 利用此裝置將緯紗折疊和鎖閉入織物, 形成閉合式光邊

### *Weaving edge tucker device (patented)*

- this device is suitable for the forming of closed edges by folding the weft and closing it into the fabric during the weaving process

## 17 緯紗選色裝置

- 配套此裝置令客戶可使用一種以上緯紗在同一織物上進行織造即使不同紗徑和性質的絲/線

### *Weft colour change devices*

- this device allows to weave with more than one weft, even with different weft diameters and wire/yarn qualities

## 18 紗線軋花裝置

- 此裝置適合緯紗和經紗的軋花

### *Wire crimping devices*

- this device is suitable for the crimping of weft and also warp wires

## 19 軋花緯紗準備裝置

- 此裝置可以對線徑極大的絲或桿進行織前軋花處理

### *Weft preparing devices for pre-crimped wires*

- this device allows to prepare pre-crimped wires and rods with larger diameters for the weaving process

## 20 軋花紗線織物織機

- 特殊類型織機, 專為使用軋花絲線織造極高負載絲網

### *Weaving machines for pre-crimped fabrics*

- this is a special weaving machine, suitable for weaving very heavy fabrics with pre-crimped wires



這僅是我們產品範圍的簡要說明。我們以及我們的代理商可隨時與我們客戶就其所需織機特殊要求和個性化設計, 進行充分探討...

This is only a brief description of our product range. We are always available to discuss with our customers their special requirements and design individual weaving machines for their special...

Electronic or mechanical driven  
brandrapier conversion kits®

劍桿改造套件

TRINCA®

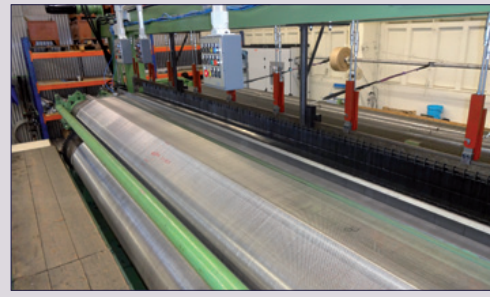
意大利 特意佳



## Conversion kits for old weaving machines with a new bandrapier system mechanical driven or by servomotors with electronic control. 電子或機械驅動劍桿舊織機改造套件

適用於老織機的改造套件,由機械驅動或由伺服電機電子控制的劍桿引緯系統。預組裝好的改造套件,造就了極短的舊織機改造時,經改造升級後的織機在常規織造過程中將極容易變更織造幅寬。可選機械或伺服電機電子驅動劍桿改造套件,更可配置氣動緯絲,緯絲準備和切斷裝置均由微處理器控制的改造套件,一體化設計整組供貨適用於幅寬由1000至8500毫米老型劍桿織機或有梭織機改造。升級為機械驅動或伺服電機電子控制單層劍桿引緯

These preassembled kits allows very short conversion times of the old looms and also fast width adjustments during the future normal weaving process. Together with these mechanical or by Servomotors and electronic driven brandrapier devices, can be mounted also a pneumatic wet/wire/yarn preparing and cutting device, preassembled in only one block and controlled by a microprocessor. Suitable to convert and modernize old rapier or shuttle looms with weaving width from 1000 up to 8500 mm. by operation with only one bandrapier crossing the shed, mechanical driven or by Servomotors with electronic control.



## Technological innovations in the wire and technical fabric production process 技術創新

TRINCA特意佳公司目前位於意大利科莫省路拉卡馳緯 (Lurate Caccivio), 除卻其先進的電子控制和驅動的高速織機外,現進一步為業界提供嶄新的系統改造套件,從而為織造廠帶來高效和高產出更具競爭力

The TRINCA Company in Lurate Caccivio (Como) Italy present, further to their new, electronically driven and controlled weaving machines, also new system and equipment, which allows Manufacturing Companies to increase their competitiveness with higher efficiency and production performance.



## NEW WET WIRE PREPARING DEVICE PREPOOLER T300® T600® AND T1000® 型預捲緯儲緯機

緯紗絡筒可適用直徑360毫米和更大的筒子,線/紗的卷繞運行在不同的線圈。預卷緯儲緯機由電子電機控制和驅動,緯紗準備可設置為手動或自動。緯紗定長由機械微動開關控制和通過電位調節速度。當絡筒轉動卷緯機PREPOOLER有足夠的動力進行退繞,這有效避免了緯紗準備可能的干擾。如與特意佳電子驅動的織機配套使用預卷緯儲緯機速度可與織機運行相連接。

適合於各類型金屬絲,合成纖維紗線和天然纖維: suitable for each kind of metal wires, synthetic yarns and natural fibers.

- T300線徑: 0.05至0.4毫米 • T300 for diam. from 0,05 up to 0,40 mm.
- T600線徑: 0.40至1.60毫米 • T600 for diam. from 0,40 up to 1,60 mm.
- T1000線徑: 0.40至2.00毫米 • T1000 for diam. from 0,40 up to 2,00 mm.

The wet spool-support accepts wire and yarn spool with 360 mm diam. and more. The wire/yarn unwinding operates on separate loops. The prepooler is controlled and driven by an electronic motor with setting possibility for manual or automatic wet preparing. The wet reserve is controlled by a mechanical microswitch and the speed adjustment by a potentiometer. The prepooler has enough power to allow to unwind while the wet spool is turning. This avoids possible jamming in the wet preparation. Assembled to electronically driven TRINCA looms, the prepooler speed can be connected with the running speed of the weaving machines.

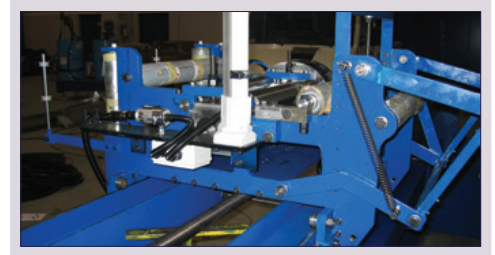


## 新型整經/並軸裝置

適用於常規經軸,有邊和筒型經軸。新型整經裝置由無刷伺服電機控制和驅動,並適合不同直徑的常規經軸,直徑400毫米,450毫米和600毫米的有邊經軸,以及外徑可達800毫米的筒型經軸。經軸托架和經軸由5千瓦電子控制的電動機驅動,可調節的速度控制。整經速度和密度由鍵盤鍵入設置。導紗裝置控制保障恆定紗線張力。

## NEW WARPING/BEAMING DEVICE®

For normal wrapbeams, ring-warpbeams and canister-warping. This new warping device is controlled and driven by a brushless Servomotor and is suitable to beam each wire diameter on normal or ring-warpbeams with 400 mm, 450 mm, and 600 mm diameter and canister up to 800 mm outside diameter. The beaming carriage and the beam are driven by electronically controlled 5 kW motor with an adjustable speed control. The pitch and number of turns settings for the upwinding are inserted by a keyboard and a grading device controls constantly the wire



## 型號. OR-E 200 電子驅動和控制整經機 Electronically driven and controlled warping device (beamer)

- OR = 整經機
- E = 電子式
- 200 = 整經最大幅寬 (可按客戶要求)

- OR = warping device
- E = electronically
- 200 = warping width max. canister (max measure on request)

- 適用於罐式經軸;
- 鋼支撐結構;
- 鋼製牆板框,支撐全部轉動部件;
- 整經通道—寬 200 毫米,包含:
  - 鍍鉻軸作經紗張力控制,
  - 1 斜杆,
  - 1 導紗裝置;
- 線性導槽,鋁合金製,支撐整經通道架;
- 帶所有電器控制原件的電櫃箱,包含:
  - 按鈕面板置於紗架,包括:開車—倒車—一點動按鈕
  - 編程鍵盤,微處理器
  - 帶(2行) 16 按鍵觸摸屏顯示個人電腦,可作設定數據,警示,速度,插入編程數,
  - 設置參數:整經轉數
  - 速度:轉/分鐘,米/分鐘,加速和減速曲線,
  - 經紗線斷止控制

- suitable for canister;
- steel supporting structure;
- steelmade sideframe, supporting all transmission parts
- warping carriage – width: 200 mm, complete with:
  - chrome plated beam for the warp-wire tensioning
  - 1 slanting reed
  - 1 grading device
- linear guides, alu-profile made, suitable to support the warping carriage
- switchboard with all electronically control parts, complete with:
  - pushbutton panel fitted on the carriage, complete with: pushbutton for operating reverse operating - impulse operating - programming keyboard and a microprocessor
  - 帶(2行) 16 按鍵觸摸屏顯示個人電腦,可作設定數據,警示,速度,插入編程數,速度,插入編程數
  - setting possibility of following data: warping turns
  - speed: turns/minute or meter/minute – acceleration ramp and deceleration ramp
  - warp-wire breaking control

可由鍵盤對整經機實施編程及控制。

This warping device (beamer) can be programmed and controlled by the keyboard.



AD 傳訊:

*Aeffe Promotion* 艾菲推廣

Progetto grafico 圖像設計:

*info@riccivisualcommunication.ch*

Chinese Text 中文:

*A&A Consultant* 香港A&A 諮詢

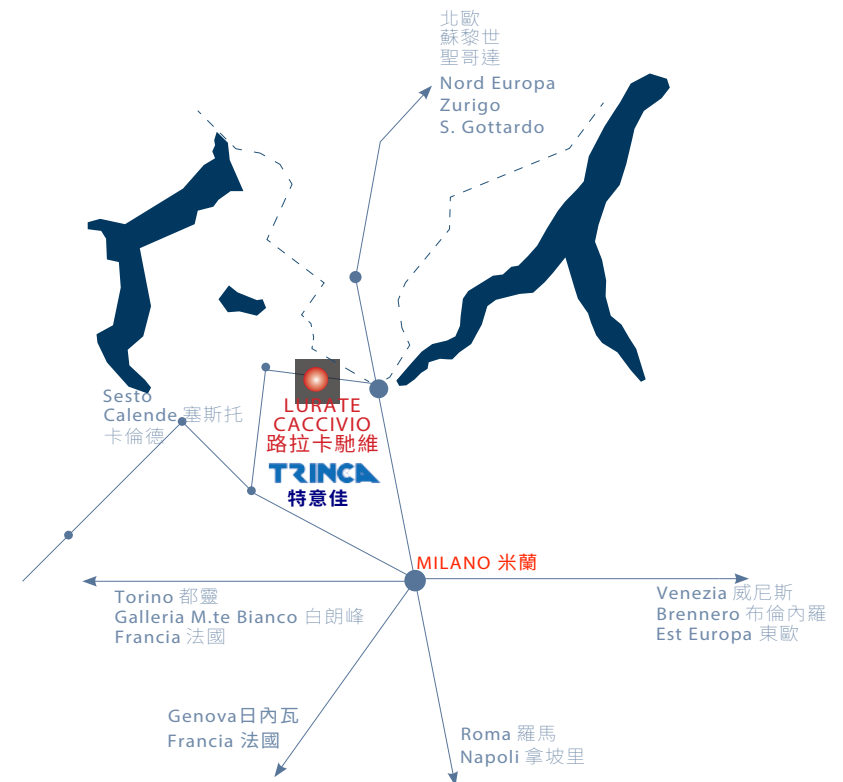
*hkaac.net*

macchine per  
weaving machines for the production of technical fabrics la produzione  
di tessuti tecnici

技術織物織機

**TRINCA**<sup>®</sup>

[www.trinca.it](http://www.trinca.it)





Via Stucchi, 33 - 22075  
Lurate Caccivio (CO) - Italy  
Tel. +39 031.390991  
Fax +39 031.390991  
e-mail: tec@trinca.it

Regional Agent 大中華區域代理:



A&A Consultant 香港 A&A 諮詢



: [www.hkaac.net](http://www.hkaac.net)

@: [info@hkaac.net](mailto:info@hkaac.net)

☎: +852-9023 4800

📮: PO Box 143, Tung Chung, HONG KONG (香港)