

X-CORD USER MANUEL



Technifibre


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WARNINGS AND PRECAUTIONS

This machine is recommended for indoor use.

An earthed socket is mandatory for the machine to function properly.

The recommended temperature for the use of the machine is 10-40°C, 50-104°C.

In order to avoid the risk of electrical shocks, keep the machine away from all liquids.

Never use the machine if the machine hood (case) is detached or unscrewed.

Never perform maintenance operations without disconnecting and detaching power cable from plug socket.

It is recommended to carefully choose and regularly inspect extension cables on a regular basis. It is better to replace them rather than repair them.

Tecnifibre will not be held responsible for direct or indirect damages caused by incorrect use, lack of maintenance, unauthorized modifications or incorrect use of the machine. They also cannot be held responsible in case of accident, fire and for the security of electric installations.

Make sure that the stringing machine is always switched off and the power cable is detached from the power supply before cleaning it or servicing its components.

Never clean the machine by using water, a garden hose or a high-pressured hose.

Cleaning and servicing the machine must only be made according to the detailed description given in this instruction manual. The stand may only be used to fix the appropriate Tecnifibre stringing machine.

ASSEMBLY OF THE MACHINE



To assemble the machine, follow all the steps indicated in the quick set up guide.

To refer to a new, or missing set-up guide, scan the QR-Code to view or download a copy.

All parts are listed in the installation guide. Communicate immediately with your Tecnifibre representative if any parts are missing.

All tools required for assembly are included.

Some steps require two people, as noted in the quick set up.

Use **EXTREME** caution until assembly is complete.

DESCRIPTION OF PARTS

X-CORD



MACHINE TOOLS

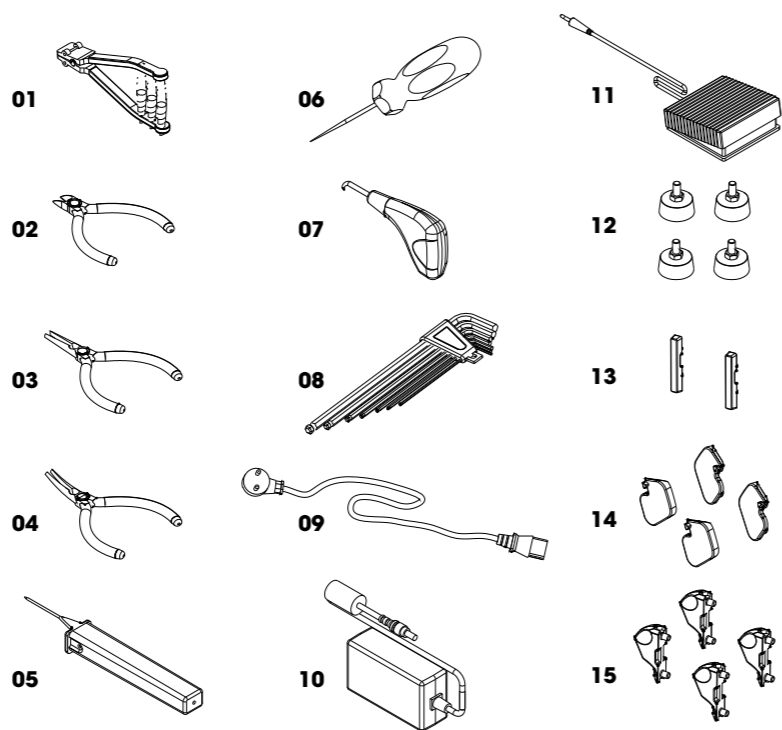
- 01. starting clamp
- 02. plier-cutter
- 03. long nose pliers
- 04. plier-bent nose
- 05. Troja awl
- 06. basic awl
- 07. badminton hook
- 08. set of allen keys
- 09. power cable
- 10. power supply

OPTIONAL PARTS

- 11. pulling head pedal
- 12. rubber foot

SPARE PARTS

- 13. fixing point sup/inf x2
- 14. arm pad (right/left) x4
- 15. fixing point lat x4



MACHINE FUNDAMENTALS

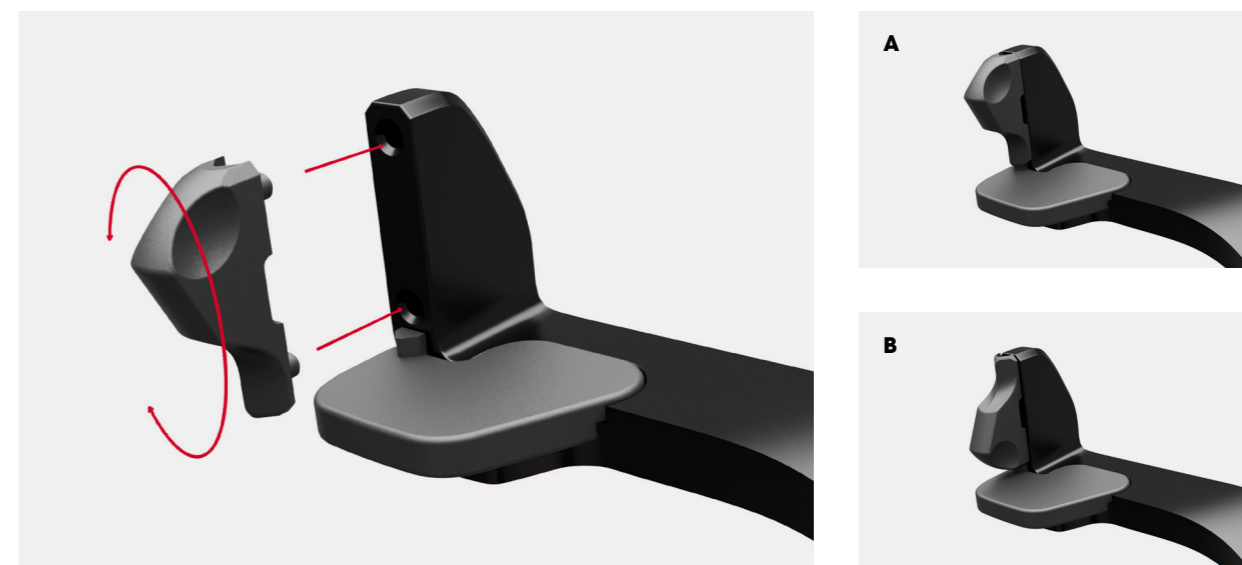
A. CONNECTING THE MACHINE

Plug in the power cable. **(A)**
Connect the pulling jaw pedal. **(B)**

The switch is located under the machine (customer side). **(C)**
DO NOT PRESS the screen of the machine during startup and diagnostic.



B. TENNIS & BADMINTON CONFIGURATION



Insert the support piece in the desired position in order to string **TENNIS (A)** or **BADMINTON (B)** rackets.

C. INSTALLING THE RACKET

The machine has a 6-point clamping system and a unique racket flat support system to guarantee a optimal respect for the racket.

- There is no difference between which way up you place the racket on to the support.
- Allows you to mount tennis, squash and badminton rackets.

ADJUSTING THE COLUMN.



Press the tab to adjust one of the 3 column positions to suit different racket frame sizes.

RACKET ATTACHMENT.



Adjust the spacing of the crossbar by turning the dial superior.



Adjust the arm spacing by turning the dial lower.

D. CLAMPS & CLAMP BASE

TIGHTEN THE CLAMPS AND CLAMP BASE.



Position the clamp on the string.
Lower the clamp lever. **(A)**
Push the clamp support lever clockwise until it clicks. **(B)**

LOOSEN THE CLAMPS AND CLAMP BASE.

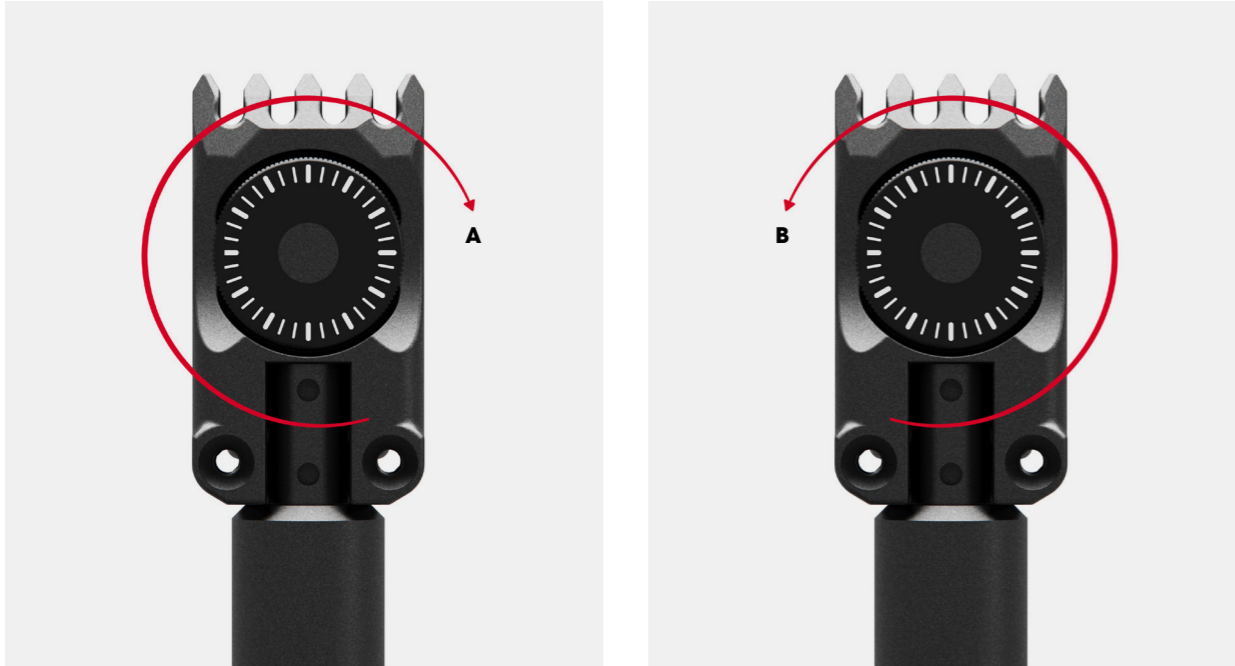


Option n°1: manual.
Press the TF button on the clamp base. **(A)**
Loosen the clamp lever by raising it. **(B)**



Option n°2: Gravity-assisted release.
Raise the clamp lever. **(A)**
Pull the clamp down from the clamp base support. **(B)**
The clamp base will loosen automatically.
If the clamp base do not loosen from the string, press the TF button to loosen it.

ADJUST THE PRESSURE OF THE CLAMPS ON THE STRING.



The adjustment is made using the dial.
Turn the dial clockwise to tighten. **(A)**
Turn counterclockwise to loosen while pressing on the teeth of the clamps to make it easier to handle. **(B)**
Too much tightening can damage the string.

ADJUST THE TIGHTNESS OF THE CLAMP BASES.



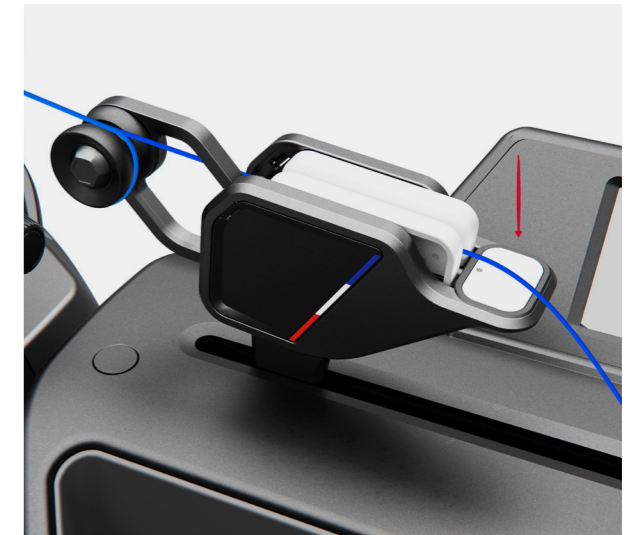
Turn the dial to the right to increase the tightening hardness **(A)** and to the left to decrease the tightening hardness. **(B)**

E. PULLER HEAD

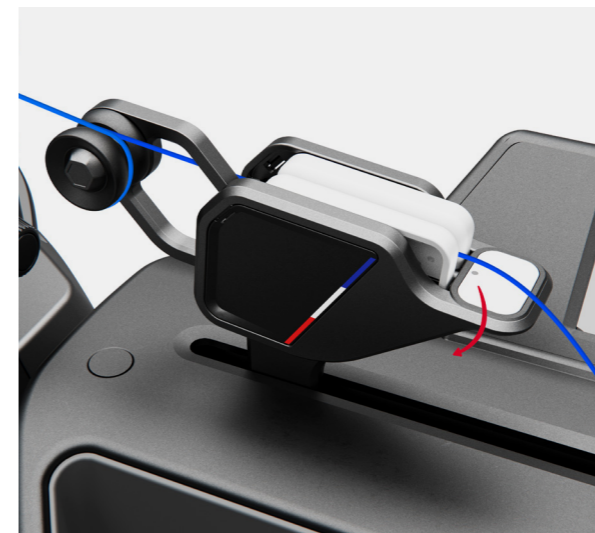


Setting up the string.
Place the string in the puller head using the diabolo.

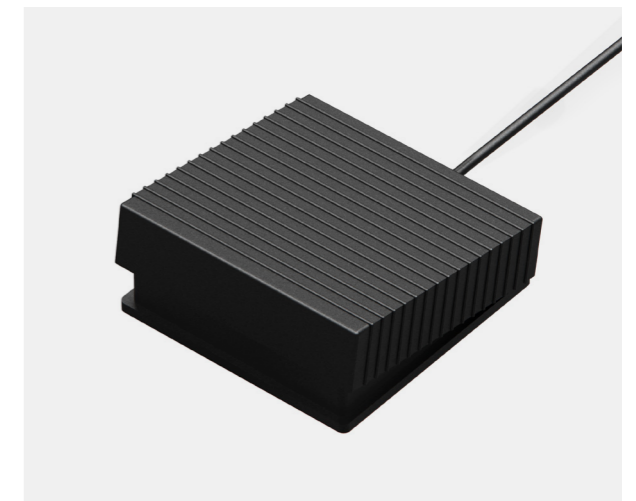
The puller head can be set
in 3 different ways:



Option n°1: the touch button.
Press the touch button, the jaw will engage the string pulling.



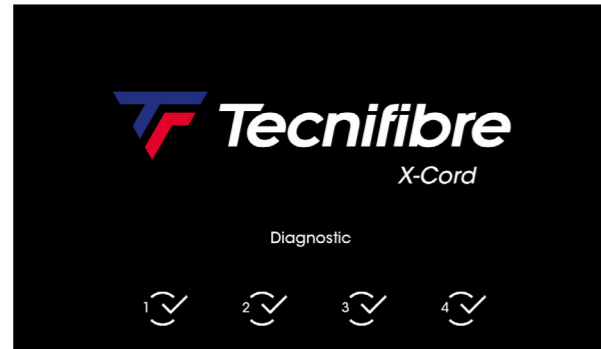
Option n°2: puller head jaws.
Press with the string to bring back the jaws towards the left, the puller head will engage the string pulling.



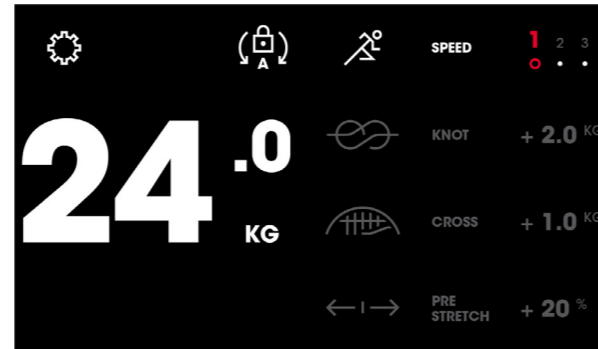
Option n°3: the pedal.
Press the pedal, the jaw will engage the string pulling.
To connect the pedal, refer to the "connecting the machine" section.

CONTROL PANEL FUNCTIONS

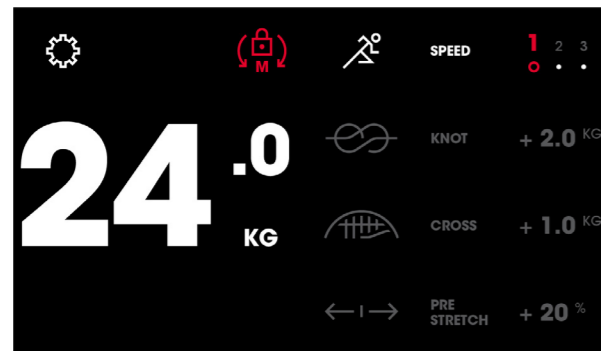
A. MAIN MENU



Start-up screen.



The main menu is displayed after the start-up.



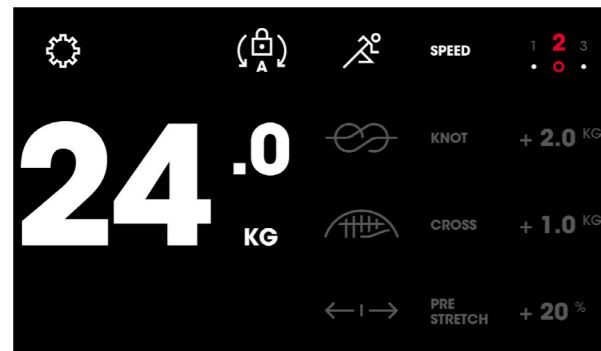
B. TURNTABLE BRAKE

Activate/deactivate the brake.

Press for 1 second (M) to activate/deactivate the brake in manual mode.

The brake is activated when the icon is red.

Press for 3 seconds to change from manual mode to automatic mode.

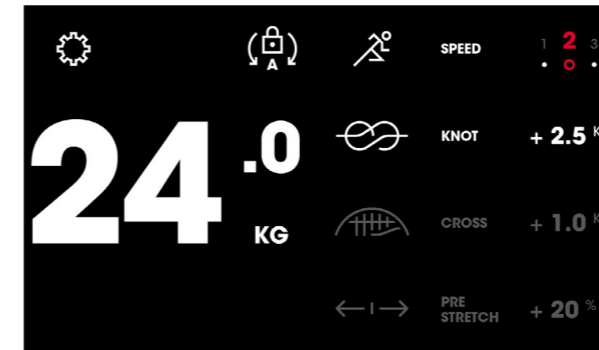


C. TRACTION SPEED

Select traction speed.

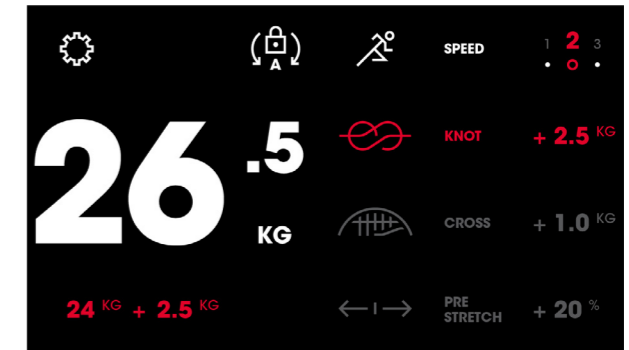
Press the speed value to vary the 3 traction speeds. After speed 3, the display returns to speed 1.

D. KNOT



Knot adjustment.

Press on the knot value to vary. After 4 Kg, the display returns to 0.5 Kg.



Enable/disable the function.

Tap the icon (K) to enable/disable it.

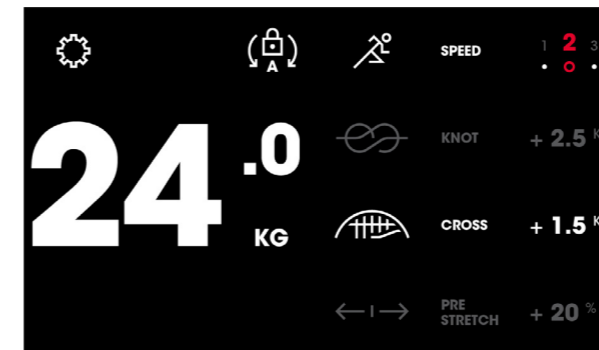
Also the function can be activated after the puller head activation.

If the function is activated, the icon should be lit red.

The function deactivates itself after 1 pull.

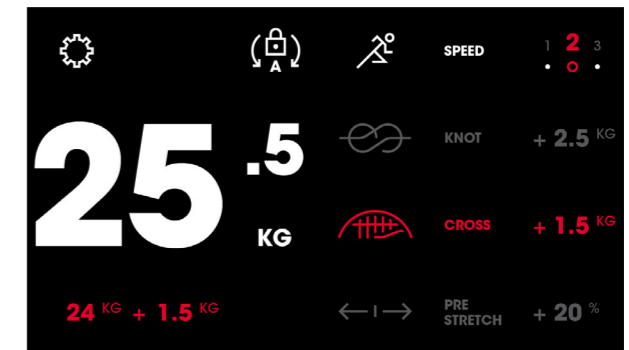
The value should be displayed as 26.5 and 24.0 + 2.5 kg.

E. CROSS



Cross adjustment..

Press the cross tension value to vary the values. After 2.5 Kg, the display returns to -2.5 Kg.



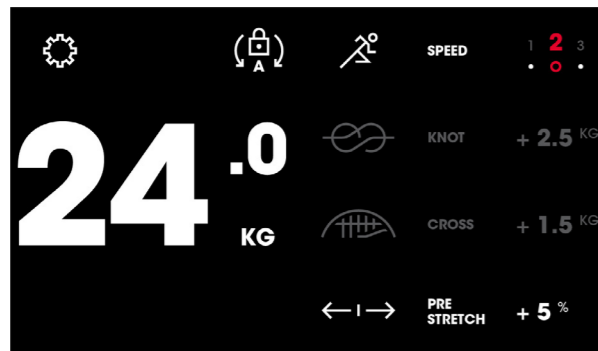
Enable/disable the function.

Tap the icon (C) to enable/disable it.

If the function is activated, the icon should be lit red.

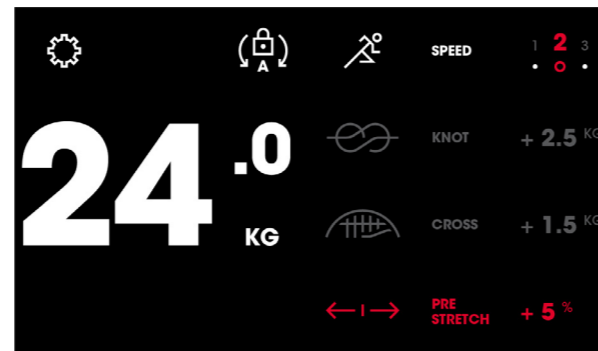
The value should be displayed as 25.5 and 24.0 + 1.5 kg.

F. PRE-STRETCH



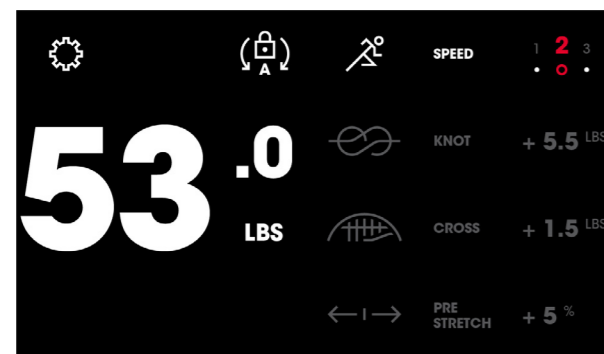
Pre-stretch adjustment.

Press the **pre-stretch value** to vary the values
After 20%, returns to 0%.



Enable/disable the function.

Tap the icon **←|→** to enable/disable it.
If the function is activated, the icon should be lit red.



G. UNIT CONVERSION

Change the unit of measurement.

Press the **unit** to turn it on/off.
If the function is activated, the icon should be lit red.
Press to change unit between Kg/Lb.
Conversion and the change of values.

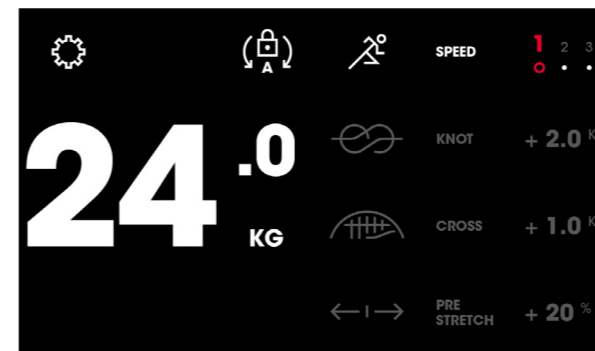


H. TENSION

Adjust the tension setting.

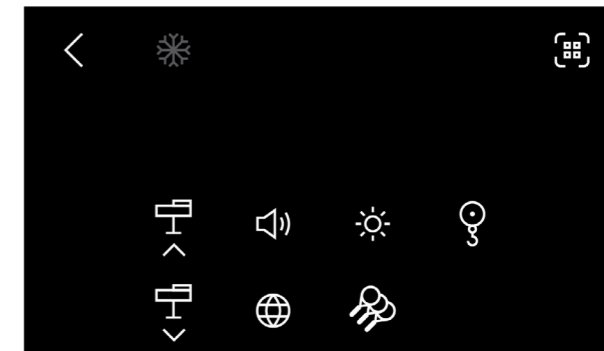
Press the numbers to get the desired tension desired:
- Press 2 and 2 for 22 Kg.
- Press 0 and 9 for 9 Kg.
Press **✓** to confirm the tension and return automatically to the main menu.
When the correct tension is reached when pulling the string, the display turns green.

I. SETTING FUNCTIONS



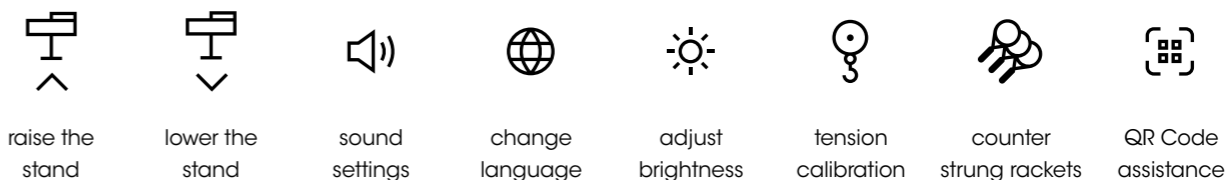
Access to machine settings.

Press the icon **⚙️** to access the setting functions.

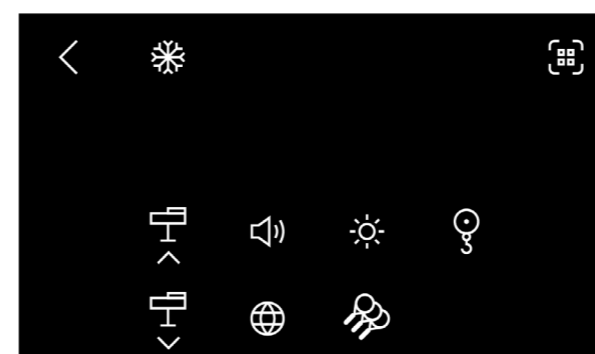


Display of settings functions.

List of settings functions.



J. SCREEN LOCK



Access to machine settings.

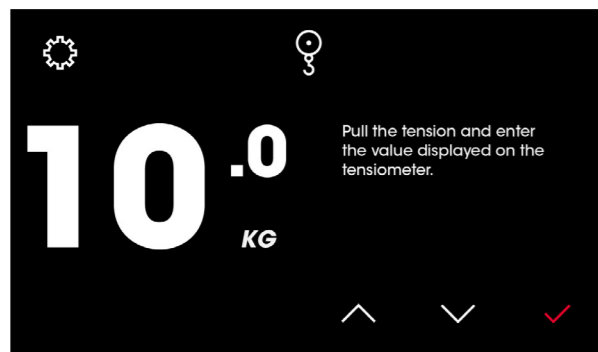
Press the icon **❄️** to display the option on the main screen (not activated at the moment).



The option is displayed on the main screen.

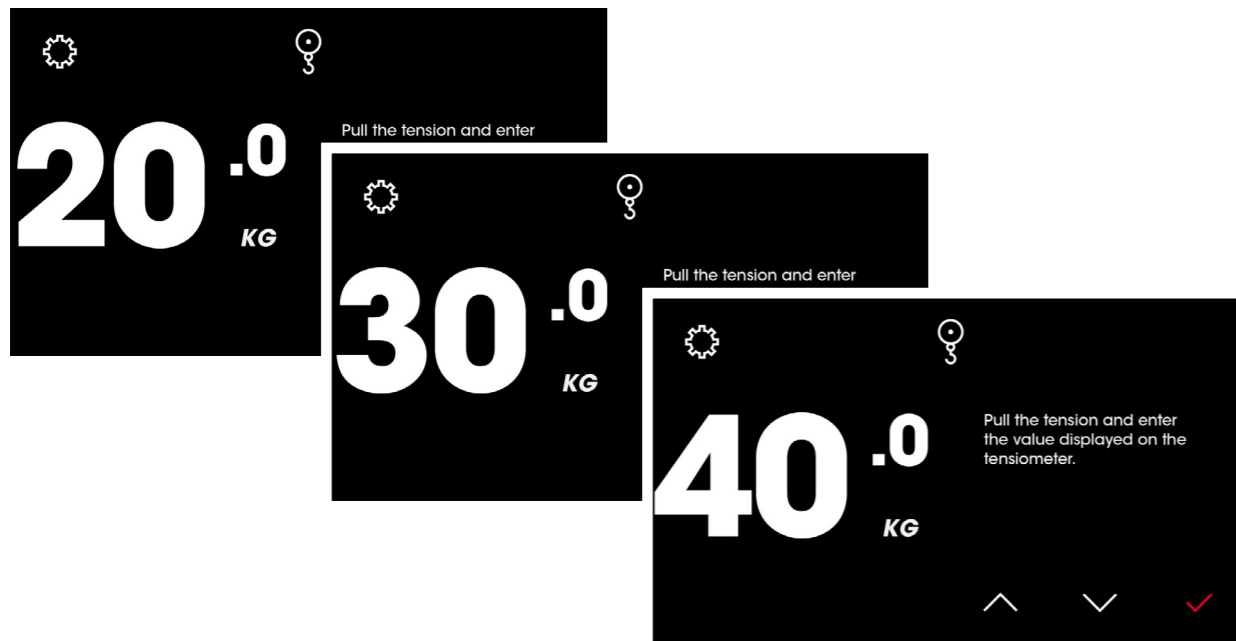
Press to activate: all functions will be locked except the brake, the knot, the cross and the pre-stretch.

K. TENSION CALIBRATION



Calibration adjustment.

Get a tension-meter.
Place a string under tension in the puller head.
Pull your string and enter the value displayed on your tensiometer.
Validate to carry out the tests at 20Kg, 30Kg then 40kg.
After carrying out the test at 40Kg, the calibration is finished.



MAINTENANCE



Scan the QR code to view tutorials.

CLEANING THE TOOL TRAY.

Remove the tool tray to easily clean the interior.

CLEANING THE TOUCH SCREEN.

Carefully wipe the touch screen with a clean, dry cloth.

CLEANING THE CLAMPS

Dip an old toothbrush or shoelace in rubbing alcohol.
Move the cleaning utensil back and forth between the jaws and into the pliers tube.
Let dry.
Repeat the process every 1000 tractions or every week; refer to the total number of tractions

CLEANING CLAMPS BASE

Clean the clamp holder tube with rubbing alcohol (do not use oil).

CLEANING THE INTERIOR SURFACE OF THE PULLER HEAD

Dip an old toothbrush or shoelace in rubbing alcohol.
Run the cleaning utensil back and forth across the inside surface of the jaws
Let dry.
Repeat the process every 1000 tractions or every week; refer to the total number of tractions

CLEANING THE GLIDE BAR

It is recommended to clean the glide bar with a soft cloth dampened with alcohol.
Run the fabric back and forth over the glide bar and inside the rail, removing any debris.

AFTER SALES SERVICE

PROBLEMS	1ST ASSISTANCE PROBLEMS
The electrical system does not work	Check the power source
	Check the power cord connections and green LED light
The string slides through the clamps	Adjust the gap between the clamping jaws
	Clean the jaws
The string slides in the puller head	Clean the jaws of the bit
The clamp base slides on the glide bar	Clean the bottom of the clamp base and the surface of the turntable with alcohol
	Adjust clamp base lock nut
String tension is too tight or too loose	Check the tightness of clamp and clamp base
	Adjust machine calibration
the machine swings	Adjust the two horizontal adjustment screws on the bottom of the foot support
Error code on screen	Turn off the machine and turn it back on after a few minutes
	Check the error code list for the reason

ERROR CODES	MEANING
C01	if puller jaws do not return to start position in 6 seconds after power up of machine
C02	there is a string detected in puller head when machine is powered up
C03	Initial voltage of load cell is too high
C04	Motor current too big
C05	both limit switches on both side (left + right side) of puller track are engaged
C07	EEPROM failure
C08	elec box had PWM out put ,and motor current are zero continue for 1 sec.
C09	elec box had PWM out put ,and motor have current but R and L limit switches both are on continue for 2 sec.
C10	right limit switch malfunction —switching to backup mode
C11	left limit switch malfunction —switching to backup mode
C12	both limit swiths malfunction —switching to backup mode

If the problem persists on your machine, please contact Tecnifibre to make the first diagnosis. Tecnifibre has created a stock of spare parts which allows defective parts to be easily replaced.

Scan the QR code to view troubleshooting tutorials.



WARRANTY AND DECLARATION OF CONFORMITY

WARRANTY COVERAGE.

Tecnifibre warrant to the original purchaser that the X-cord stringing machine ("Equipment") purchased is free from defects in materials and workmanship for a period of two (2) years from the date of original purchase ("Warranty Period"). Should any defects covered by this warranty develop under normal use within the Warranty Period, Tecnifibre will at its option, replace parts, repair or replace the defective Equipment. If a parts defect arises and a valid claim is received within the Warranty Period, at its option Tecnifibre will either exchange the part with a new, used or refurbished part that is at least functionally equivalent to the original part. A replacement part assumes the remaining warranty of the original purchase or ninety (90) days from the date of replacement, whichever provides longer coverage for you. This warranty does not apply to any damage or defect caused by negligence, abuse, misuse, unauthorized alteration, corrosive environments, moisture, high voltage surges from external sources, shipping, handling, or part wear and tear as a result of normal use. Any parts or boards removed in the replacement or remanufacture process shall become the property of Tecnifibre. This warranty is extended to the original end user purchaser only and is not assignable or transferable to any other party. Routine maintenance, adjustment, and cleaning are required to ensure proper operation and are the responsibility of the purchaser and are not covered under the terms of this warranty. Tecnifibre's obligation under this warranty is limited to replacement parts repair or replacement of defective Equipment, and no one is authorized to promise any other liability or warranty. Tecnifibre will not be liable to you or anyone else for any damages that result from the failure of this Equipment or from the breach of any express or implied warranties including, without limitation, damage to other equipment, lost profits, or consequential, incidental, or punitive damages. In no event will Tecnifibre be liable for any amount greater than the currently suggested retail price of this Equipment. The written warranty represents the entire warranty regarding this Equipment. This warranty is given in lieu of all other warranties, express or implied, including without limitation implied warranties of merchantability and fitness for a particular purpose. This warranty is limited to the Warranty Period. No warranties, either express or implied, will apply after the Warranty Period. This warranty gives you specific legal rights and you may also have other rights, which vary, from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

OBTAINING WARRANTY SERVICE AND PARTS

Please review this manual or the online help resources referred to in this documentation posted at www.tecnifibre.com before seeking warranty service. If the part is still not functioning properly after making use of these resources, please contact your local Tecnifibre customer service representative for replacement part or Equipment. Additional contact information can be found in the contact section www.tecnifibre.com. Only Tecnifibre customer service or a Tecnifibre authorized service center can determine whether the part or Equipment is covered by this warranty and if covered will assist in providing warranty service. Tecnifibre has the right to use a 3rd party to perform repair service in lieu of shipping and returning a machine for replacement. Warranty service applies to parts that are tendered or presented for service during the Warranty Period as permitted by law. Subject to applicable law you will be required to furnish proof of purchase details before receiving warranty service (NOTE: Proof of purchase from auction sites such as ebay, uBid, Overstock, etc. will not be accepted, as this warranty does not apply to Equipment purchased from such auction sites). Warranty service may be restricted to the country where purchased. Service options, parts availability and response times will vary according to country and you may be responsible for shipping and handling charges if the part cannot be serviced in the country it is in. Tecnifibre reserves the right to change this warranty without prior written notice.

This product is in conformity with the provisions of the following: CENELEC EN 55014-1 2000/10/01, CENELEC EN 55014-2 2001/12/01, BSI BS EN 61000-3-2 2006/5/31, and CENELEC EN 61000-3-3 of the EMC Directive CENELEC EN 60335-1 of the Low Voltage Directive. The Technical Construction File required by these Directives are maintained at the corporate headquarters of Tecnifibre.