

# Instructions for use

# TX / CX

Original notice V1.0

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## I. Safety instructions

In the rest of the document, the pictogram  is you of important safety information.



### GENERAL SAFETY INSTRUCTIONS

- Read the package leaflet before use
- Never intervene yourself on the graduation. For any changes, contact an authorized person of the ACRN company
- IF THERE IS ANY DOUBT ABOUT THE INTEGRITY OF THE DYNAMOMETER (CRACKS, BREAKAGE, DETACHMENT, ETC.), HAVE THE DYNAMOMETER CHECKED BY QUALIFIED ACRN PERSONNEL
- ACRN recommends an annual preventive control
- Adhere to the stated maximum capacity to avoid damage to equipment
- Adhere to the stated minimum capacity to ensure equipment accuracy
- Do not stand under the equipment during the test
- Avoid putting fingers or hands near areas of load or stress to prevent the risk of being crushed.
- Do not insert anything into the inner spring
- Store the dynamometer in a clean, dry and shock-free place when not in use
- In the event of unusual noise, jolts or loosening of components, stop use immediately and have it checked by qualified ACRN personnel
- If you touch the slider or notice a loosening of its screw, have the equipment checked by qualified personnel from the ACRN company



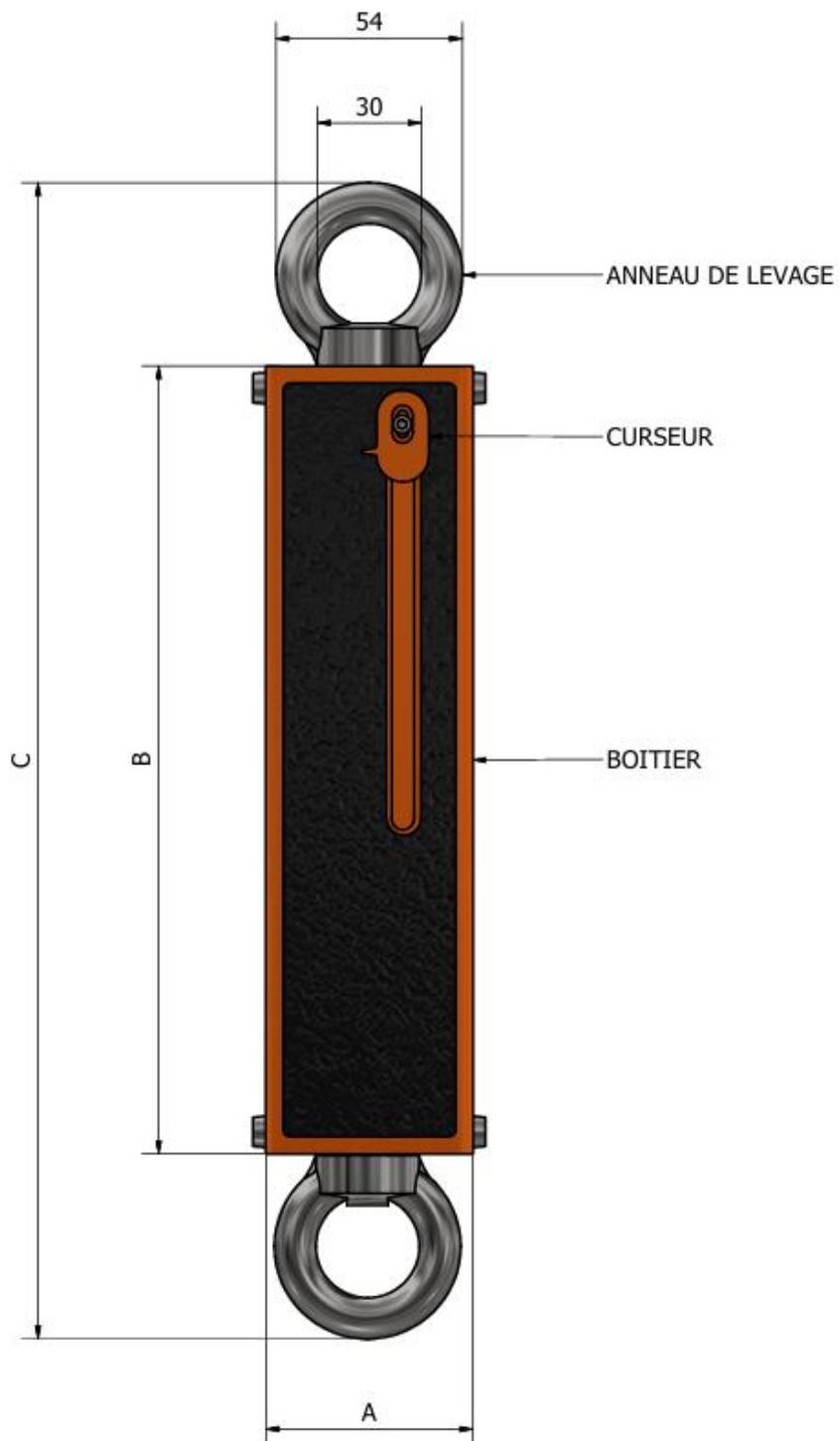
#### RESIDUAL SAFETY INSTRUCTIONS

- Use suitable shackles when using the equipment.
- Do not touch the gauge during the test

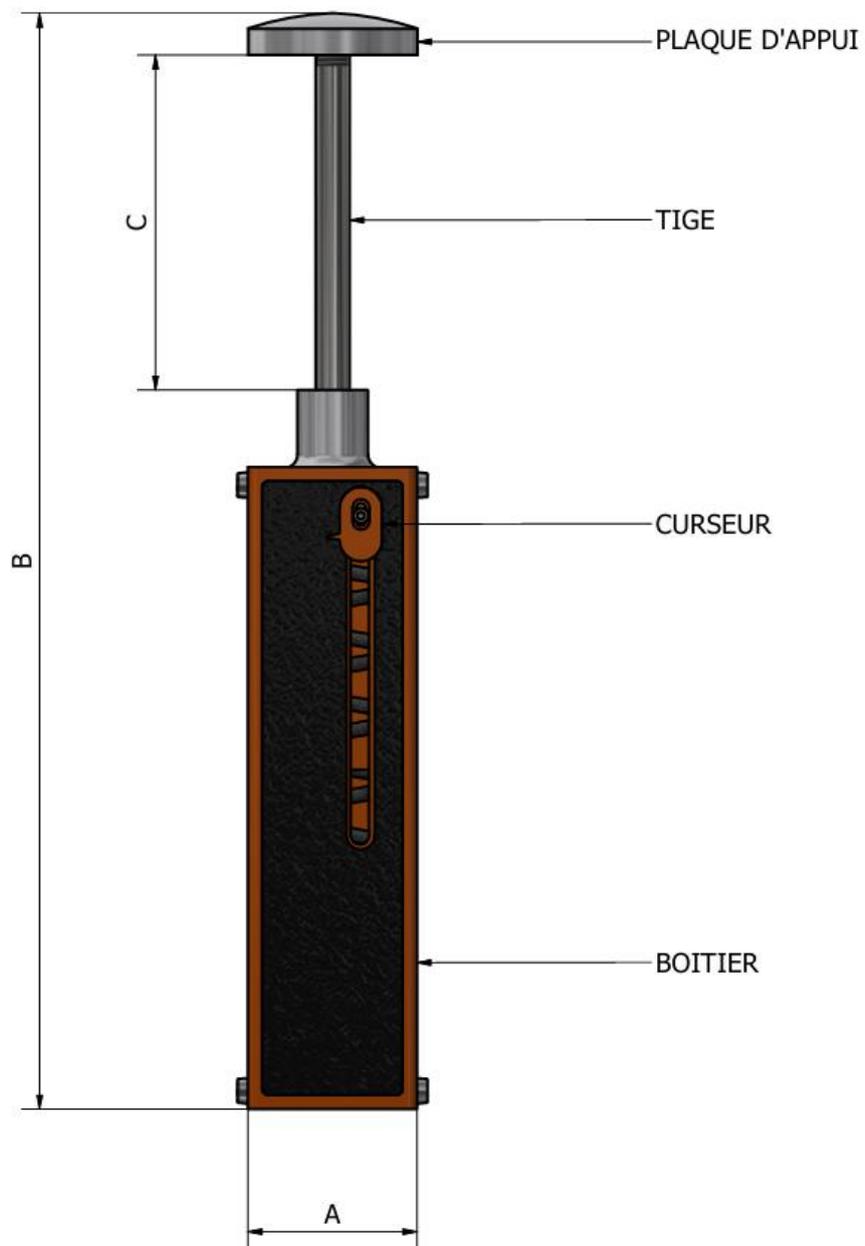
## II. General description

The TX and CX are dynamometers consisting of a spring in a steel case and a graduated scale for reading the measurement.

The TX is used in traction.



The CX is used in compression.



### III. Technical specifications

	TX/CX
Precision	+/- 4%
Useful reading	From 1/10 of the measuring range
Safety coefficient	5
Number of tests	Unlimited
Test duration	Unlimited

#### *Dimensions:*

MODEL	MAXIMUM CAPACITY (daN)	MAX STROKE (mm)(daN)	HOUSING (LxWxH)	HANGING DISTANCE (mm)	WEIGHT (kg)
TX 60 / CX 60	60	60	60x60x140	210	1.3
TX 100 / CX 100	100	100	60x60x230	300	1.6
TX 150 / CX 150	150	100	60x60x230	300	1.7
TX 200 / CX 200	200	100	60x60x230	300	1.8
TX 300 / CX 300	300	100	60x60x230	300	2.3
TX 400 / CX 400	400	100	60x140x245	335	5
TX 600 / CX 600	600	100	60x140x245	335	6.2

### IV. Conversation board

MAXIMUM CAPACITY (daN)	EQUIVALENT IN kg
60	61.2
100	101.97
150	152.96
200	203.94
300	305.91
400	407.88
600	611.82

## V. [User Manual](#)

### 1. [Installing the device](#)



PLEASE READ THE SAFETY INSTRUCTIONS BEFORE INSTALLATION

#### SET UP

- Unpack the equipment from its box. Be sure to keep the original box to reuse it for possible future shipments.
- Handle the equipment with care.
- Install the appliance on a flat, stable surface that is strong enough to support the weight of the appliance.
- Do not install the device in a humid environment

### 2. [Using the device](#)

For TX equipment:

- To carry out your tests, add shackles to the pull rings.
- Position yourself directly in front of the graduation to read the result.

For CX equipment:

- To carry out your tests and have reliable results, make sure you are centered on the rounded base.
- Position yourself directly in front of the graduation to read the result.

Tips to ensure a good measurement:

- Ensure proper centering during testing to ensure reliable results.
- Wait for the gauge to completely stabilize before reading the indicated measurement.
- Wait for the gauge to completely stabilize before taking the measurement.

VI. [Maintenance - Maintenance operations](#)

OPERATION	FREQUENCY	OBSERVATION
Check the condition of the screws	At each use	
Check the condition of the rings/rod	At each use	
Check the condition of the graduation on the lexan	At each use	If the numbers disappear = have the equipment checked by ACRN
Check the tightening of the slider screw	Once a month	If unscrewed = have the equipment checked by ACRN
<b>RECOMMENDATION: PERIODIC CHECK OF THE CALIBRATION OF THE SCALE</b>	<b>Once a year</b>	<b>Verification by ACRN</b>

**Spare parts**

- Lexan (graduation)
- Cursor
- Spring
- Pull rod or ring
- Orange box

VII. [Storage and transport](#)

**TRANSPORT** : It is strongly recommended to use the original packaging for transporting the device. If this packaging is not available, ensure that the device is well protected.

Please refer to the **good packaging practices** document to avoid equipment breakage.

- Product Marking



## VIII. Declaration of Conformity

### DECLARATION OF CONFORMITY

The company ACRN located at the Parc d'activités du Moulin d'Ecalles 76750 Buchy France declares that the following equipment:

**Designation:** MECHANICAL DYNAMOMETER  
**TYPE :** TX / CX

Complies with the requirements of the following European directives:

**Directive Machines** 2006/42/CE  
**RoHS Directive** 2011/65/EU (and amendments 2015/863)

The product complies with the following standards:

**EN ISO 12100:2010** Safety of Machinery – General Design Principles

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**Position:** General Manager

**Visa:**





# ACRN

Machines de contrôle qualité  
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MESURE  
DE COUPLE



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DYNAMOMÉTRIE



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