

User Manual

# TX / CX

Original Manual V1.0

## Table of Contents

II. General Description.....	Erreur ! Signet non défini.
III. Technical Specifications .....	Erreur ! Signet non défini.
IV. Conversation Chart.....	Erreur ! Signet non défini.
V. User Manual .....	Erreur ! Signet non défini.
<b>1. Installing the device</b> .....	Erreur ! Signet non défini.
<b>2. Using the device</b> .....	Erreur ! Signet non défini.
VI. Maintenance - Maintenance Operations .....	Erreur ! Signet non défini.
VII. Storage and transportation.....	Erreur ! Signet non défini.
VIII. Declaration of Conformity.....	Erreur ! Signet non défini.

## I. Safety Instructions

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



### **GENERAL SAFETY INSTRUCTIONS**

- **Read the instructions before use**
- **Never adjust the scale yourself. For any modifications, contact an authorized representative of ACRN.**
- **IF YOU HAVE ANY DOUBTS ABOUT THE INTEGRITY OF THE TENSION GAUGE (CRACKS, BREAKAGE, PEELING, ETC.), HAVE IT INSPECTED BY QUALIFIED PERSONNEL FROM ACRN**
- **ACRN recommends an annual preventive checkup**
- **Do not exceed the specified maximum capacity to avoid damaging the equipment**
- **Adhere to the specified minimum capacity to ensure the equipment operates accurately**
- **Do not stand under the equipment during the test**
- **Avoid placing your fingers or hands near loading or moving parts to prevent the risk of being crushed.**
- **Do not insert anything into the inner spring**
- **Store the dynamometer in a clean, dry place, protected from impact, when not in use**
- **If you hear unusual noises, feel jerks, or notice that any components are loose, stop using the equipment immediately and have it inspected by qualified personnel from ACRN**
- **If you notice any movement in the slider or find that its screw has come loose, have the equipment inspected by qualified personnel from ACRN**



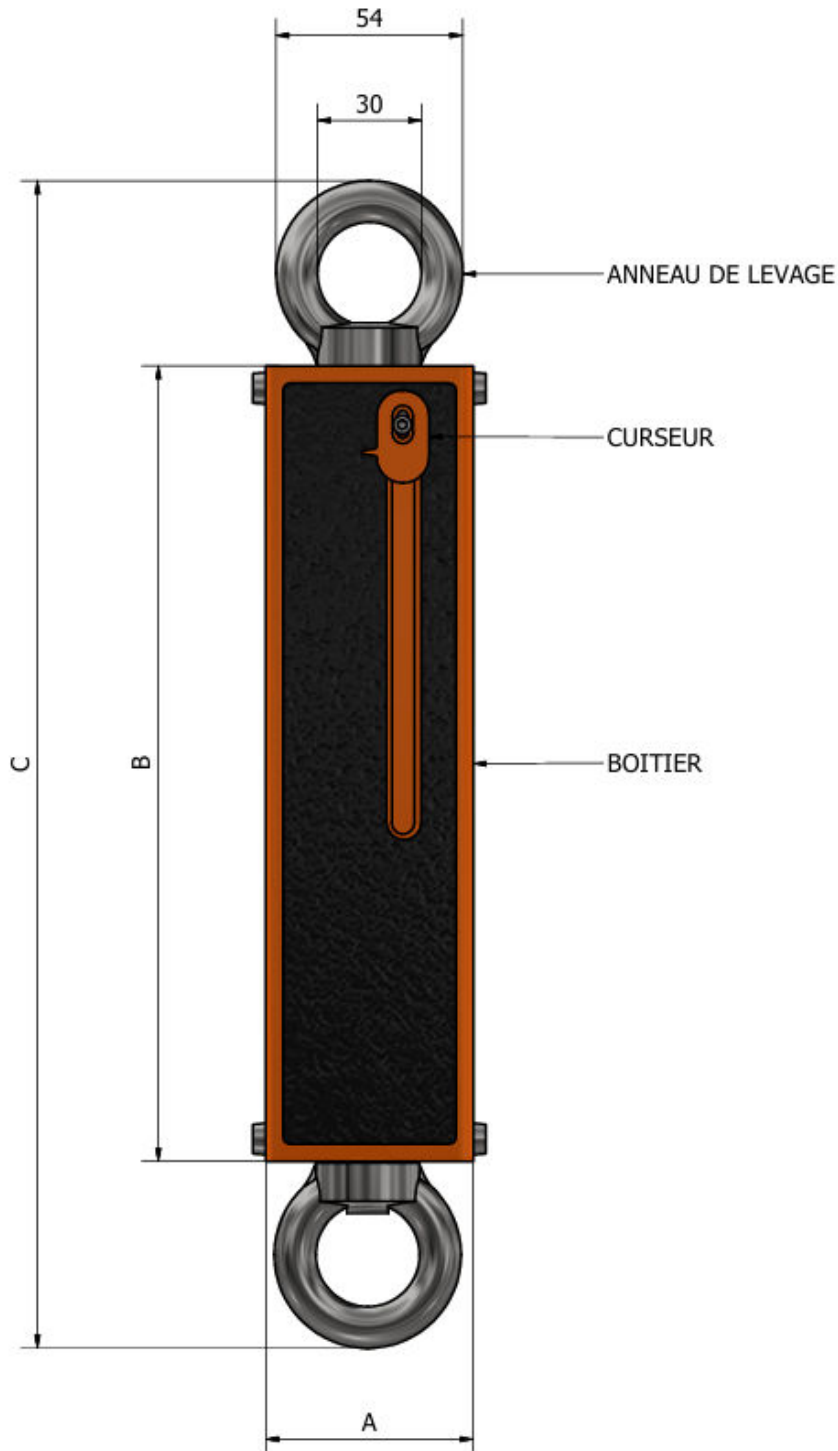
#### **RESTRICTIONS**

- **Use appropriate shackles when operating the equipment.**
- **Do not touch the gauge during the test**

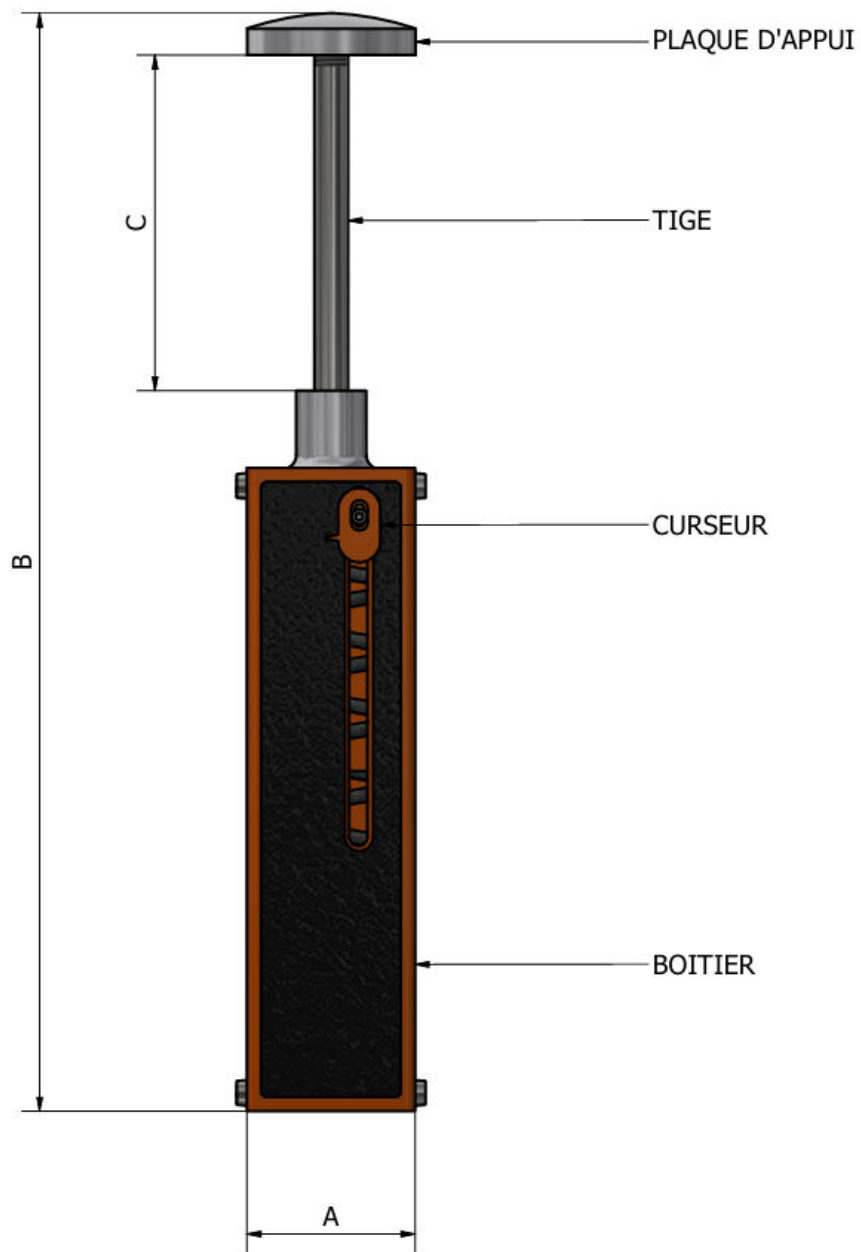
## I. General Description

The TX and CX are force gauges consisting of a spring housed in a steel casing and a graduated scale for reading the measurement.

The TX is used for towing.



The CX is used for compression.



## I. Technical Specifications

	TX/CX
Clarification	+/- 4%
Recommended reading	Starting at 1/10 of the measurement range
Safety factor	5
Number of tests	Unlimited
Test duration	Unlimited

*Dimensions:*

MODELS	MAXIMUM CAPACITY (daN)	COURSE MAX (mm) (daN)	CASE (LxWxH)	MOUNTING 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

## II. Conversation Chart

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

### III. User Manual

#### 1. Installing the device



**BE SURE TO READ THE SAFETY INSTRUCTIONS BEFORE INSTALLATION**

##### **SETUP**

- Unpack the equipment from its box. Be sure to keep the original box so you can reuse it for future shipments.
- Handle the equipment with care.
- Place the device on a flat, stable surface that is sturdy enough to support its weight.
- Do not install the device in a damp environment

#### 1. Using the device

For TX equipment:

- To perform your tests, attach shackles to the pull rings.
- Stand directly in front of the scale to read the result

For CX equipment:

- To perform your tests and obtain reliable results, make sure you are centered on the rounded base.
- Stand directly in front of the scale to read the result

Tips for taking accurate measurements:

- Ensure proper centering during the test to guarantee the reliability of the results.
- Wait until the gauge has fully stabilized before reading the measurement
- Wait until the gauge has fully stabilized before taking a reading

### III. Maintenance - Maintenance Procedures

OPERATION	Frequency	OBSERVATION
Check the condition of the screws	Every time you use it	
Check the condition of the rings / the rod	Every time you use it	
Check the condition of the scale on the Lexan	Every time you use it	If the numbers fade = have the equipment inspected by ACRN
Check that the slider screw is tight	once a month	If loose = have the equipment inspected by ACRN
<b>RECOMMENDATION: PERIODIC CHECK OF THE WEIGHING SCALE CALIBRATION</b>	<b>once a year</b>	<b>Verification by ACRN</b>

#### Spare parts

- Lexan (graduation)Curseur
- SpringTige ou anneau de traction
- Orange case

### III. Storage and Transportation

**TRANSPORT:** We strongly recommend using the original packaging when transporting the device. If the original packaging is not available, be sure to pack the device securely.

Please refer to the **packaging best practices document** to prevent damage to the equipment.

- Product Labeling



### III. Declaration of Conformity

#### CE DECLARATION OF CONFORMITY

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

**Description:** MECHANICAL DYNAMOMETER

**TYPE:** TX / CX

Complies with the requirements of the following European directives:

- **Machinery Directive 2006/42/EC**
- **Directive RoHS 2011/65/UE** (and amendments 2015/863)

The product complies with the following standards:

- **EN ISO 12100:2010 Safety of machinery – General principles for design**

**Technical Data Sheet Editor:** Etienne DUPUY

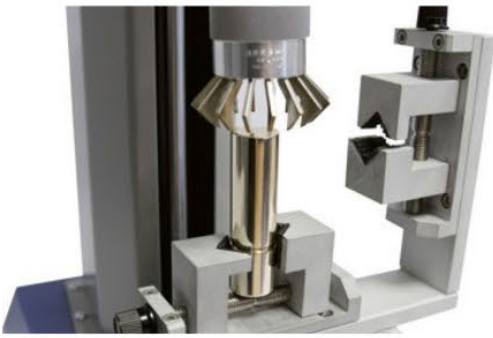
**Date :** 23/04/2025

**Signatory's name:** Etienne DUPUY

**Function :** Directeur General

**Visa :**





# ACRN

Quality Control Machine  
Industry & Packaging

## NOTICE INSTRUCTION



**TORQUE  
MEASUREMENT**



**STRENGTH  
AND  
DYNAMOMETRY**



**LEAKAGE AND  
TIGHTNESS  
TESTS**

CLAMPING CONTROL

DYNAMOMETRY QUALITY CONTROL

ÉLECTRONIC

CALIBRATION

SEALING SENSORS

TORQUEMETER

**PACKAGING CONTROL SPECIALIST**

**PHARMACEUTICAL - AGRI- FOOD - COSMETICS**

[www.acrn.fr](http://www.acrn.fr) - [contact@acrn.fr](mailto:contact@acrn.fr)