



## TORQUE ANALYZERS CENTORMETER



# Product range CENTORMETER

## Checks with accuracy the torque of your measuring tools in the calibration labs, on the field or at the workstation.

Periodic control of your torque measuring tools is essential to ensure your product's quality. Our product range called CENTORMETER, has been designed to control, test and calibrate all your hand and power tools: torque wrenches, torque screwdrivers, electric screwdrivers, air screwdrivers... Safely ensure periodically your tool's integrity and reliability in your facility, by controlling their torques with a torque analyzer.

The torque analyzer product range, Centormeter from ANDILOG allows you to maintain and ensure the proper torque of your operating torque equipments: hand and power driven tools up to 3000rpm (requires an optional run down adapter). The Centormeter displays in real time and simultaneously the current torque applied (track) and the peak torque, and more with the Centormeter T displays also the First Peak. Calibrate and audit all your torque tools, thanks to our large range of sensors from 0 to 600Nm, without compromise.

## CENTORMETER EA - The workstation

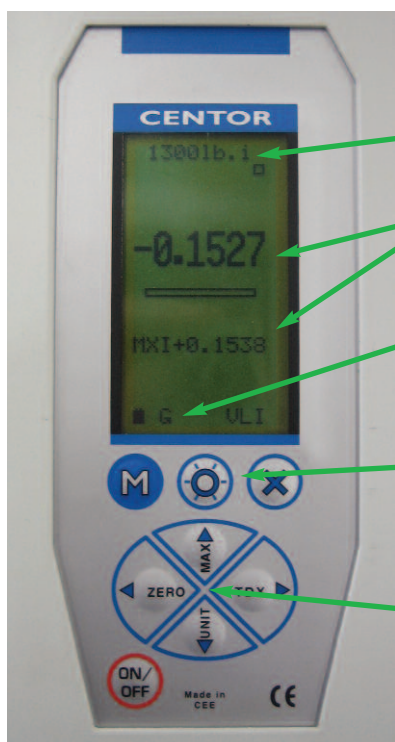
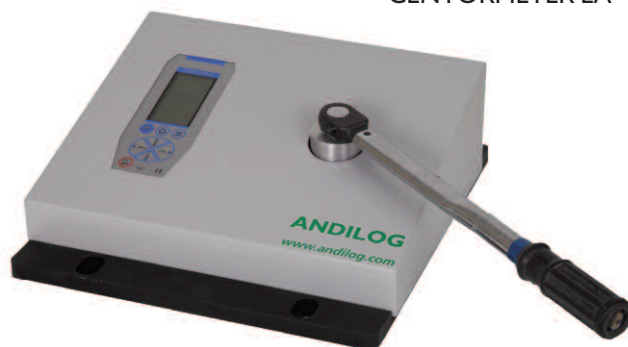
### CENTORMETER EASY

Easy and friendly to use, it has all required features to control the torque wrenches, screwdrivers and screw guns. With its large screen, it displays in two lines, and in real time, the current torque (track) and the peak torque.

Thanks to its bench mount style (four large holes) you can fix the base to your workstation. The CENTORMETER EA features a built-in transducer, which is calibrated in our facility, and ideal for small torque range up to 30Nm.

The CENTORMETER EA features a RS232 output to download your results to a PC (optional software RSIC Lab)

CENTORMETER EA



Sensor capacity

2 lines display

Torque direction

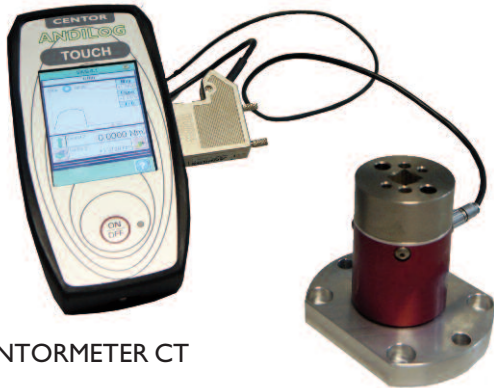
Backlight display

Control buttons



CENTORMETER EA

# Product range CENTORMETER



CENTORMETER CT

Sensor SPIP CMV/TH

## CENTORMETER CT - Portable solution

### CENTORMETER CT

Advanced model, the Centormeter CT provides extensive opportunities compared to the Centormeter EA model. Thanks to its friendly color touch screen, display your results and plot the graph torque versus time simultaneously and in real time, you don't need a PC to graph your readings.

Torque sensors are build separately and with our SPIP technology for an instant recognition, making the Centormeter CT the perfect portable torque meter for auditing all your screwdriver and power tools.

## CENTORMETER BT - The workstation up to 600Nm



sensor SPIP CMV/TH

CENTORMETER BT

### CENTORMETER BT

The Centormeter BT has the same features as the CT version. Its metal housing makes it robust and ensures an easy reading when placed on a table or rolling consoles.

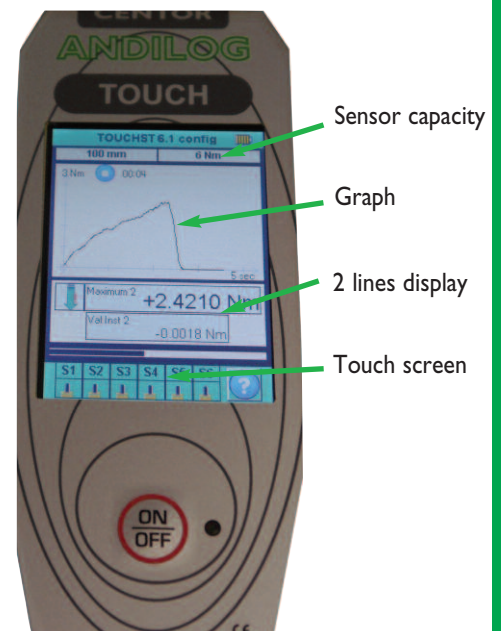
It retains the advantage of a portable version, operating on batteries and thanks to its small footprint.

The torque sensors are available from 0.6Nm to 600Nm in order to cover all types of torque measuring tools.

## The benefits of the Centormeter CT and BT models

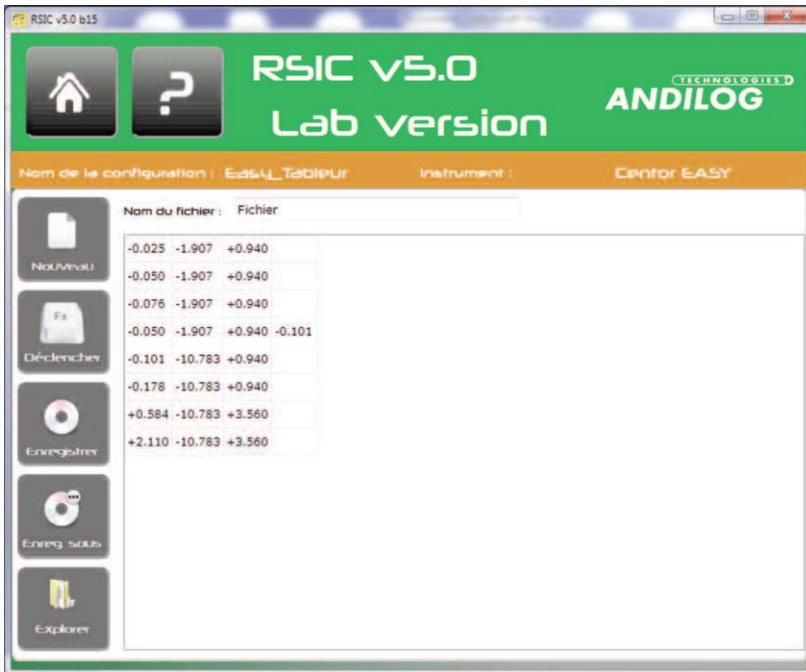
### The main additional features of the model Centormeter CT and BT:

- SPIP technologies: automatic recognition of sensors
- Features to read several sensors
- Available in portable or table top version
- Torque sensor up to 600Nm
- Data acquisition software included via USB output
- Features: track, peak, first peak
- Programmable thresholds
- Internal memory of 2000 values with statistics
- Optional: save your reading on a USB key with our DATASTICK option
- Optional: remove the connection cable between the device and your PC using our Bluetooth option kit
- Compatible with our rotary drive torque sensor (torque and angle)



# Management of your measurements

## Traceability of your measurements and reporting



### RSIC LAB

Included with the Centormeter CT and BT models, or as an option with the Centormeter EA model, the RSIC Lab software allows you to transfer your measurements to a PC via RS232 or USB (depending on the Centormeter models). Very easy-to-use, this software saves you from copy errors, writing that can happen during measurement readings.

The measures are included into a spreadsheet that can be customized (logo, shape, number of measurements...) according to your needs. You can create report and maintain the traceability of your audits.

With the Centormeter CT and BT, you can also download the curves to an Excel spreadsheet in order to perform further analysis on the curves.

## More options for the centormeter CT and BT available :

### DATASTICK



With the Datastick option, you can save directly your results, curves and measurement on a USB stick. No need any more to be connected to a computer to collect your measurements. You can also customize the type of data saved with their reference's name or tools ID, in order to easily find your measurements campaign when finished.

### BLUETOOTH

The optional Bluetooth module is available for the Centormeter CT and BT, allowing you to remove the connection cable between the torque meter and your Pc, and while performing measurements on various work-station, in a range of 100m.





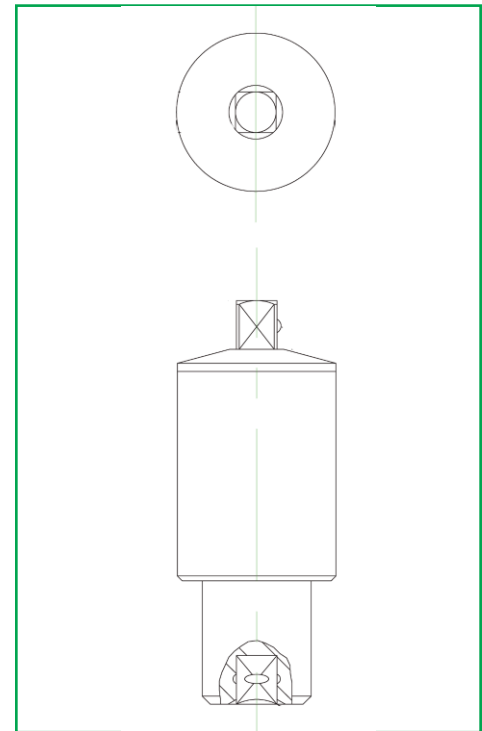
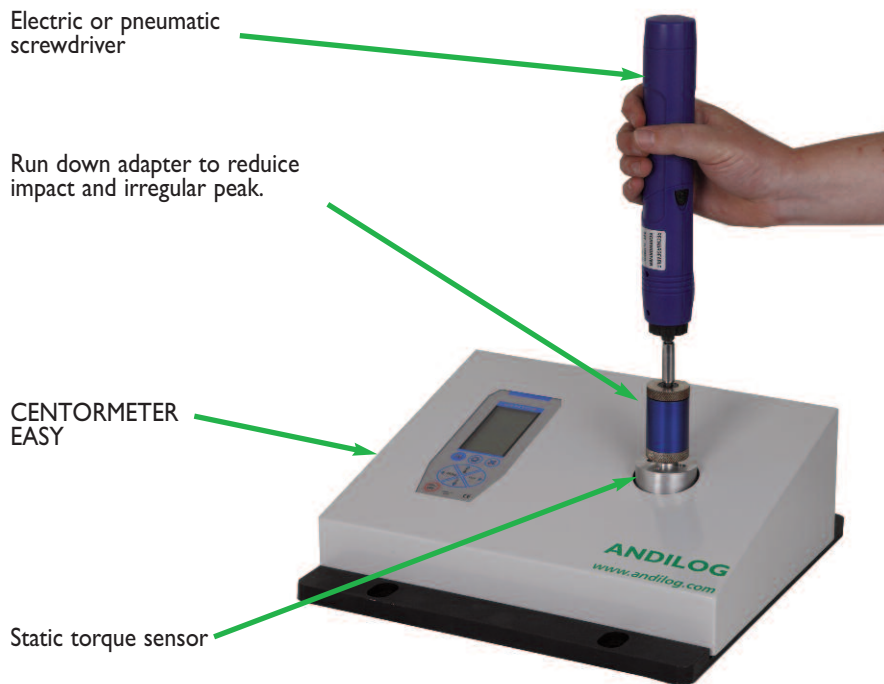
## Run down adapters

The run down adapter (RDA) is designed to provide consistent and reliable torque readings for use with power driven torque control tools.

The RDA's reduce the impact and irregular peaks that cause poor repeatability. Each RDA has an effective torque range and will supply repeatable torque data within that range if used correctly.

The run down adapter is mounted in-line between the tool drive and Centrometer. The run down adapter operates in clockwise direction only, contact us if you need a two directions (clockwise and counter clockwise adapter).

These run down adapters are designed to provide consistent and reliable torque readings for use with power driven torque control tools.



## Models and capacities

MODELS	RANGE	SQUARE	HEIGHT
RDA 10i	0.1 - 1 Nm	1/4"	63 mm
RDA 25i	0.3 - 3 Nm	1/4"	63 mm
RDA 50i	0.6 - 6 Nm	1/4"	63 mm
RDA 100i	1 - 12 Nm	1/4"	63 mm
RDA 250i	3 - 30 Nm	1/4"	63 mm
RDA 50F	6 - 60 Nm	3/8"	83 mm
RDA 100F	13 - 105 Nm	1/2"	83 mm
RDA 250F	30 - 300 Nm	1/2"	83 mm
RDA 500F	60 - 600 Nm	3/4"	111 mm



# Choosing the right model

## Centormeter's modes

The product range Centormeter has several operating modes to control all your torque measuring tools:

- **Tracking mode:** Display in real time the values applied by your torque tools. This mode is mainly used to control analog torque wrenches and needle screwdrivers, which are measuring torque without click mode.
- **Peak mode:** this is the most common mode. It will display the peak torque (maximum) that has been applied to the torque meter. This mode can be used for auditing: torque wrenches, screwdrivers or screw guns.
- **1st Peak:** This mode is used to control click/ratchet wrenches. The torque analyzer detects when the wrenches or screwdrivers reach their trigger and stores the value, even if the torque value continues to increase.
- It is possible to configure the Centormeter CT and BT to display a second trigger.

## Frequently asked questions

You will find below guidance on the choice of the most suitable model based on your constraints, measuring ranges needs and technical requirements.

	CENTORMETER EA	CENTORMETER CT	CENTORMETER BT
Torque range below 30Nm	Yes	Yes	Yes
Torque range above 30Nm	No	Yes	Yes
I want to control low (<2Nm) and high (>10Nm) capacities torques	2 devices needed	1 display + 2 sensors	1 display + 2 sensors
I look for a portable solution	No	Yes	Yes
My equipment will be installed on a dedicated laboratory department	Yes	Yes	Yes
I need to audit tools on the production floor at the workstation	Yes if sufficient space	Yes	Yes
I need to perform more advanced audit on my torque tools	No	Yes	Yes
I need a solution that can evolve for future needs	No	Yes	Yes
PC data acquisition is compulsory	Option	Yes	Yes
My workspace is limited	No	Yes	No

## Specification and features

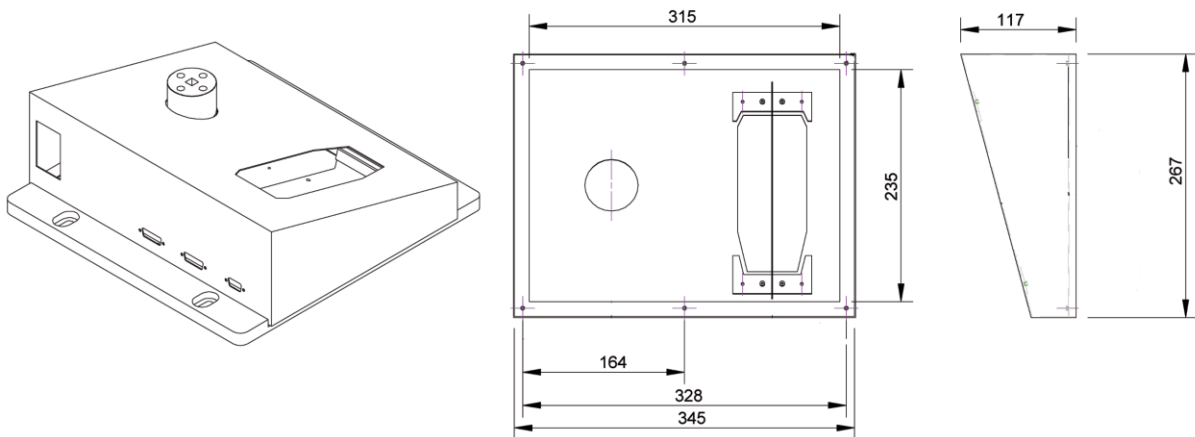
	CENTORMETER EA	CENTORMETER CT	CENTORMETER BT
Capacities	Up to 30 Nm	Up to 600 Nm	Up to 600Nm
Additional torque sensor	1,5Nm, 3Nm, 6Nm, 12Nm, 30 Nm	1,5Nm, 3Nm, 6Nm, 12 Nm, 30 Nm, 60 Nm, 150Nm, 300Nm, 600Nm	
Accuracy	0.5 % FS	0.5% FS	0.5% FS
Resolution	1 / 10 000	1 / 10 000	1 / 10 000
Speed rate	1 000 Hz	1 000 Hz	1 000 Hz
Display	2 lines	2 lines + curve	2 lines + curve
Mode	Track, Peak	Track, Peak, First Peak	Track, Peak, First Peak
Torque direction	Clockwise and counterclockwise	Clockwise and counterclockwise	Clockwise and counterclockwise
Thresholds	No	Programmable	Programmable
Memory	No	2 000 Values	2 000 Values
Autonomy	8 hours	8 hours	8 hours
Output	RS232	RS232 et USB	RS232 et USB
Power	110V / 220V	110V / 220V	110V / 220V
Software	Optional RSIC LAB	RSIC LAB Included	RSIC LAB Included
Bluetooth	No	Option	Option
Datastick	No	Option	Option
Certificat of calibration	Included	Included	Included

# CENTORMETER features

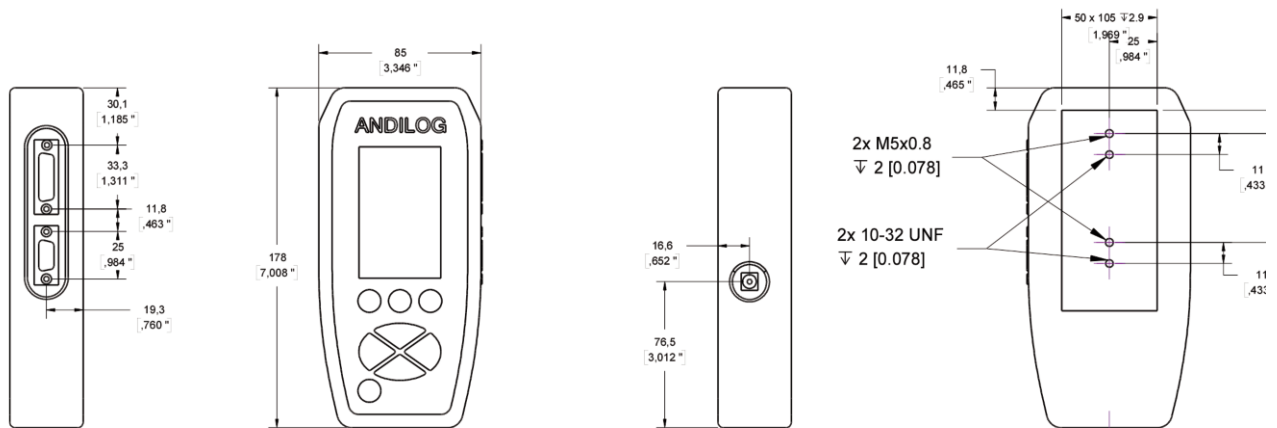
## Capacities and models

CAPACITIES	EASY MODELS	SENSOR MODELS	SQUARE
0.6 Nm	-	SIIP CMV/TH 0.6	1/4"
1.5 Nm	CENTORMETER EA 1.5	SIIP CMV/TH 1.5	1/4"
3 Nm	CENTORMETER EA 3	SIIP CMV/TH 3	1/4"
6 Nm	CENTORMETER EA 6	SIIP CMV/TH 6	1/4"
12 Nm	CENTORMETER EA 12	SIIP CMV/TH 12	1/4"
30 Nm	CENTORMETER EA 30	SIIP CMV/TH 30	1/4"
60 Nm	-	SIIP CMV/TH 60	3/8"
150 Nm	-	SIIP CMV/TH 150	1/2"
300 Nm	-	SIIP CMV/TH 300	1/2"
600 Nm	-	SIIP CMV/TH 600	3/4"

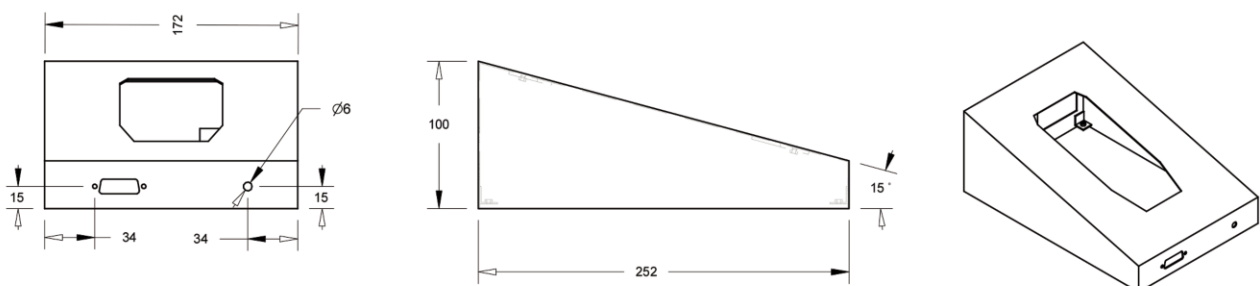
## CENTORMETER EA



## CENTORMETER CT



## CENTORMETER BT



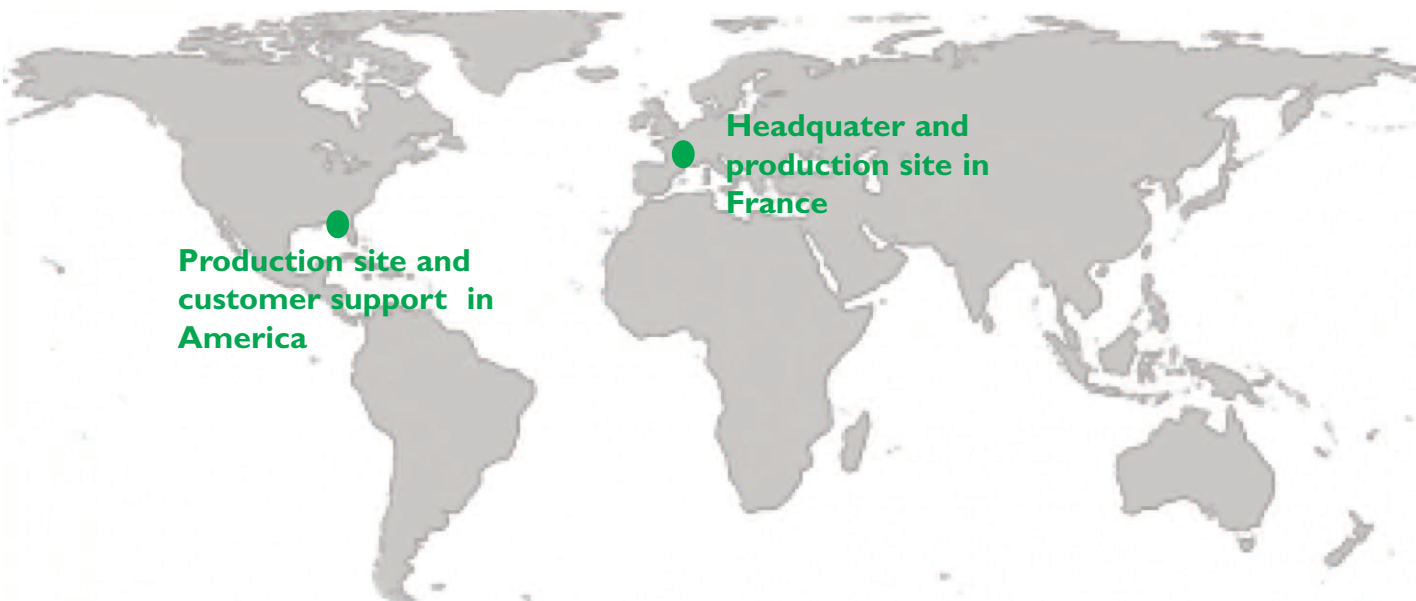
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