



moment  
alpha   
by one H too

moment   
alpha

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Catalogue 2023



In the course of fifty years of business, One-Too has built up a reputation of an expert in the design and manufacture of tailored industrial metrology systems for the acquisition, evaluation and characterisation of physical quantities.

In concrete terms, that expertise has driven all our great successes, such as:

- Our belt installation solutions, like Install Auto
- Our belt tension meters such as Newten, Diapaz and Cycl'opt
- Our Audiobox® sonometer, which can locate the sources of noise
- Our compression meter Amédée, for acquiring physical quantities
- Our Testair tyre pressure tester
- Etc.



That know-how is the result of proven methodology and close collaboration with our partners, and also a state of mind that has been carefully fostered for over 50 years.

Our experts are at your disposal for studying your specific needs and finding a solution that will help you improve the productivity and quality of your own services.



This is the history of a pioneering range, which is the result of the great tradition of tailored innovations of One-Too. As with all the products designed and manufactured by One-Too in half a century, Moment Alpha® was born out of the need stated by one of our customers from Formula 1 racing at the end of the 1990s.

At the time, it was very difficult to grasp that elastic limit precisely; screwing was carried out approximately in the absence of suitable tools. But in motor sports, precision is a decisive factor for claiming victory. One-Too was able to rise to the challenge with all its employees.

The product appealed to  and the : Moment Alpha® allows them to optimise the tightening of the different components of the vehicle. As the collaboration went on, the solution developed and even acquired new markets such as aviation, particularly for jet engine assembly.

Today, Moment Alpha® is a range and a fully-fledged make.

With products and software adapted to each need, Moment Alpha® covers maintenance, production and quality control and is suited to all companies that carry out assembly as part of their production process.







## Torque and Angle Wrench - 0,5 à 1000 Nm

### Wrench Alone

- Fitting 9 x 12 (mm) with 1/2" output
- Screwdriver mode : 0,5 to 5 Nm
- Flexion mode : 4 to 40 Nm

### With Accessories

- Screwdriver mode : 0,5 to 5 Nm
- Flexion mode : 4 to 1000 Nm

### Torque uncertainty

- Screwdriver : <6% of read value up to 5 Nm
- Flexion : <4% of read value from 4 to 1000 Nm

### Angle uncertainty : +/- 1°



- Torque and angle measurement according to tightening strategy
- Traceability in curves or direct results forms
- Uninfluence of the torque according to the grip



## Production Kit



## Quality Kit

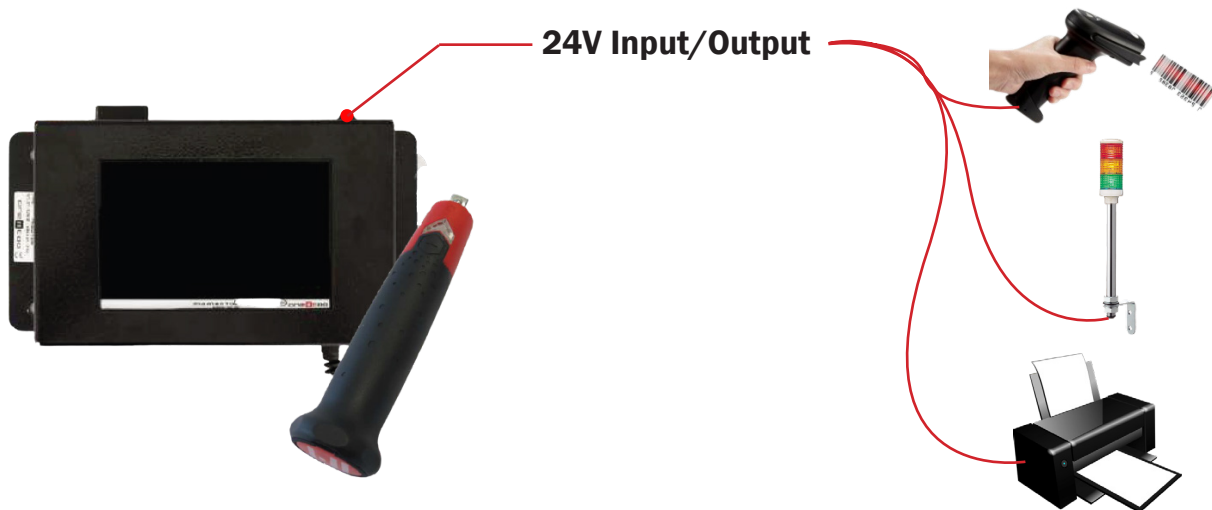


### Tightening Strategies

- Target Torque
- Torque and Angle Monitoring
- Angle and Torque Monitoring
- Prevailing Torque

### Optional Strategies

- Residual Torque
- Re-tight Mode
- Target Angle Mode
- Yield Point Detection



ACCESSORIES			
	Designation	Min Torque (Nm)	Max Torque (Nm)
<b>Torsion</b>	Screwdriver Adaptator (3/8")	0.5	5
	Screwdriver Adaptator (1/2")	0.5	5
<b>Flexion</b>	40 Nm Adaptator Flexion	4	40
	60 Nm Adaptator Flexion	6	60
<b>Extensions</b>	100 Nm Extension	20	100
	200 Nm Extension	40	200
	300 Nm Extension	60	300
	400 Nm Extension	80	400
	600 Nm Extension	120	600
	1000 Nm Extension	200	1000
<b>Ratchets</b>	100 Nm Ratchet (3/8")	20	100
	100 Nm Ratchet (1/2")	20	100
	300 Nm Ratchet	60	300
	400 Nm Ratchet	80	400
	600 Nm Ratchet	120	600
	1000 Nm Ratchet	200	1000





# MOMENT LARGOS

## Torque and Angle Wrench - 0,5 to 1000 Nm

**Connected to your Wifi network** 

Moment Alpha ARGOS is an electronic torque wrench allowing to Tighten and measure angle and torque of your tightening range from 0.5 to 1000 Nm with a sin-gle tool. This communicative and factory compatible tool 4.0, offers you a great freedom of use, notably thanks to its wifi connectivity 2.4 or 5 GHz

### Operating Range :

- Screwdriver mode : 0.5 to 5 Nm
- Flexion mode : 4 to 1000 Nm
- Torque and angle measurement according to tightening strategy
- Traceability in curves or direct results forms
- Uninfluence of the torque according to the grip
- Smart Tools (without controller)



**One-Too Protocol**

OR



**Open Protocol**

\*Compatible :    

Interchangeable accessories with automatic detection (extensions, ratchet)

Bargraph display 8 leds 3 colors   

Buzzer and Warning horn

**Torque and Angle Uncertainty :  
1% full-scale**

1.4" Oled display associate to a joystick

Ergonomic Handle :

- Length : 250 mm
- Diameter : 40 mm
- Weight : 650 grammes

Interchangeable Li-ion battery

- Autonomy : Until 6h
- Charging time : 2h



## Tightening Strategies

- Target Torque
- Torque and Angle Monitoring
- Angle and Torque Monitoring
- Prevailing Torque

## Optional Strategies

- Residual Torque
- Re-tight Mode
- Target Angle Mode
- Yield Point Detection

**Create sequence and program**  
Torque control and angle monitoring

Sequence number: 9

Sequence name: Test 9

Target torque (Nm): 20 Compute torque limits

Minimum torque (Nm): 18

Maximum torque (Nm): 22

Torque angle threshold (Nm): 0.5

Minimum angle (°): 1

Maximum angle (°): 150

Program name: Tight 1

Wrench torque threshold (Nm): 0.5

Tightening direction: Right

Batch count: 3

Safety torque (Nm): 25

OK Cancel



Your Moment Alpha ARGOS wrench is designed for the most optimized use in industry 4.0.

Moment Alpha ARGOS will allow you to collect all your tightening data, which can serve as performance and/or quality indicators..

ACCESSORIES			
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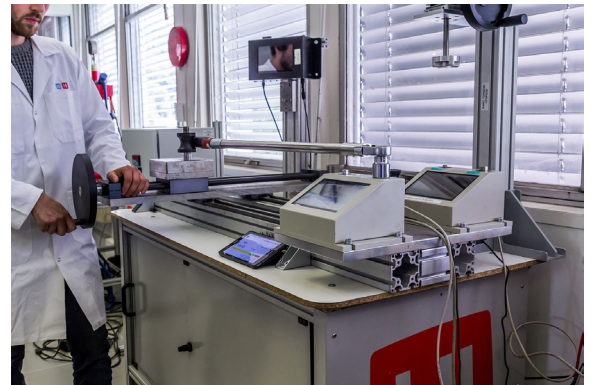
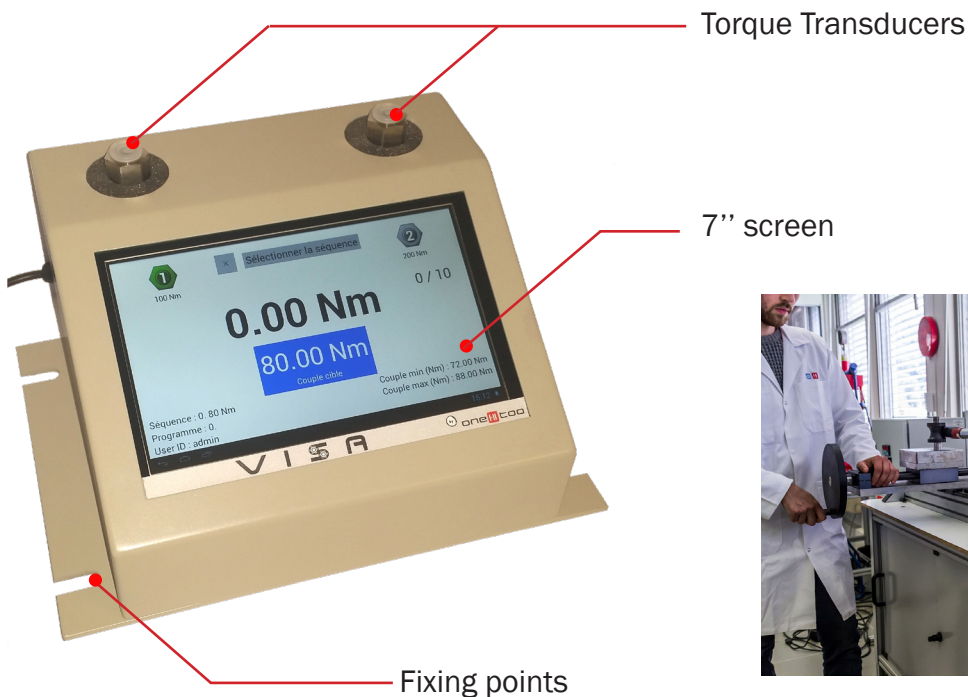


## TORQUE BENCH AND CALIBRATION TROLLEY

- Manage up to 10 000 tightening tools
- Torque measurement with 2 transducers, from 0.5 to 1 000 Nm
- Stores up to 1 000 curves and 100 000 results
- Torque range : from 10% to 100% of the maximum torque
- Uncertainty : <1% of the read value
- Resolution : 0.01 Nm

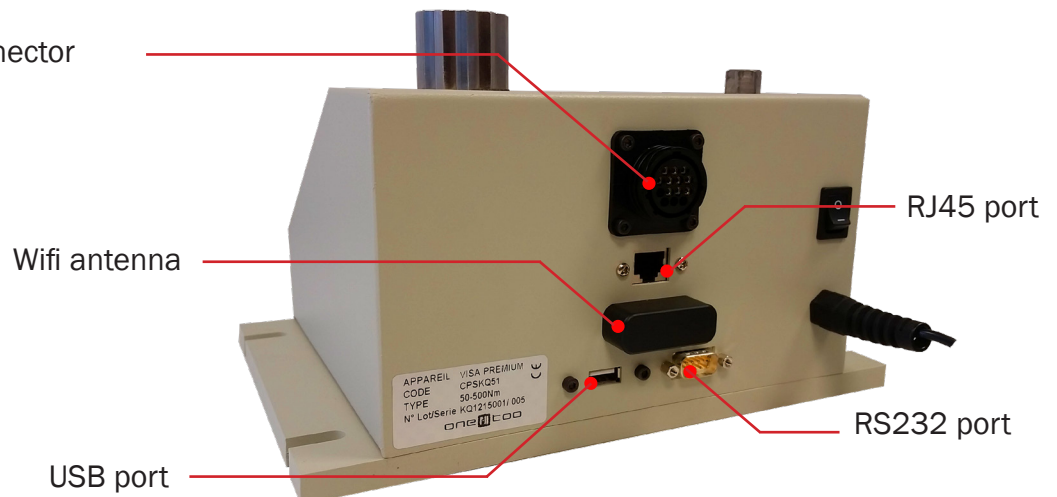
### 4 Modes of use :

- Control Chart
- Cm / Cmk
- Free Mode
- Mean and Range



- Dimensions : 180 x 250 x 135 mm
- Weight : 3.2 to 5 kg (depending on transducer)
- Barcode reader
- RFID
- Wifi
- Input/Output 24V

4 Input / 4 Output Connector



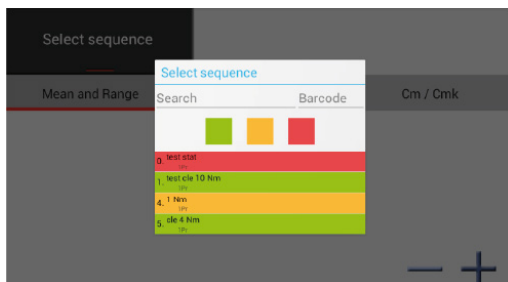




Scan and test your tool to show the result directly on the Torque Bench.

After each tightening, system shows the report

All results are stored on the folder «OneToo quality», One CSV files per Sequence, with a maximum capacity of 100 000 results per CSV file. VISA also allows you to store until 1 000 tightening curves.



With the Premium Stat Version, you can filter your tool park in according to :


Tool OK  
Tool NOK  
Tool to be controlled


Box Configuration / Connection			
	Start	Premium	Premium Stat
USB : Backup, Retore, Download	X	X	X
Serial Port (bar code, printer, RFID)	X	X	X
Communication		WIFI + RJ45	WIFI + RJ45
One-Too Protocol		X	X
Setting			
Sequence Number	10	1 000	10 000
Number of Sequences per Programs			
Bar Code Management		X	X
Batch Count	999	999	999
System Operation			
Curves Memory	10	1 000	1 000
Data Memory	1 000	50 000	100 000
Statistic Analysis			X

Accesories
Assembly Mechanical Simulator 10 Nm
Assembly Mechanical Simulator 50 Nm
Assembly Mechanical Simulator 100 Nm
Assembly Mechanical Simulator 200 Nm
Assembly Mechanical Simulator 5000 Nm
Assembly Mechanical Simulator 1 000 Nm
Wrench Adjustment Arm 500 Nm
Wrench Adjustment Arm 1 000 Nm

Torque Tranducers
0.1 to 1 Nm
1 to 10 Nm
5 to 50 Nm
10 to 100 Nm
20 to 200 Nm
50 to 500 Nm
100 to 1 000 Nm

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