



moment  
alpha   
by one H too

moment   
alpha

Catalogue



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 Newton, 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

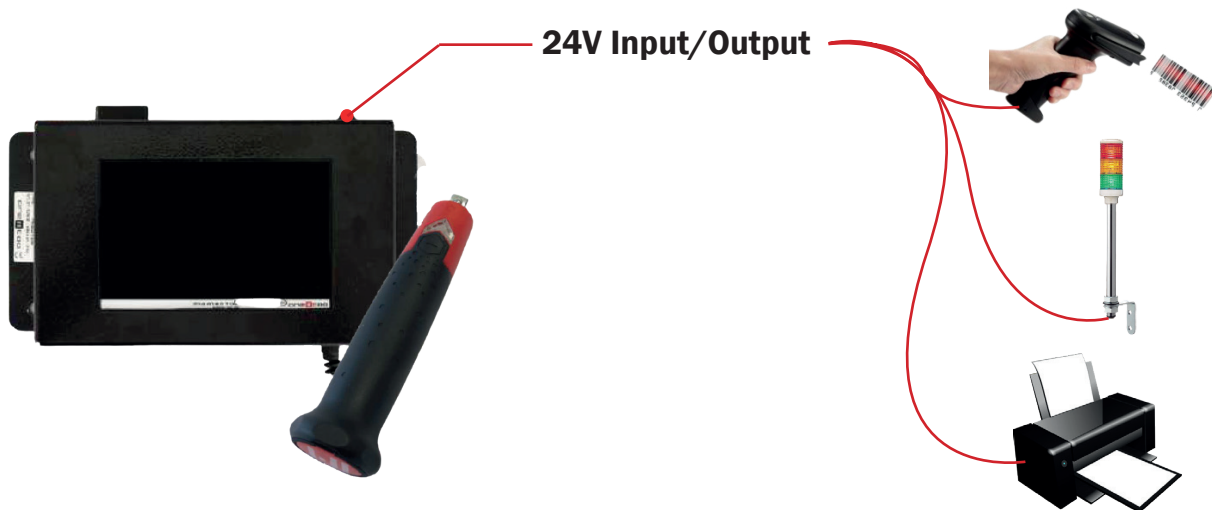


### Tightening Strategies

- 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 & ARGOS

## 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:	<input type="text" value="9"/>	<input type="button" value="v"/>
Sequence name:	<input type="text" value="Test 9"/>	
Target torque (Nm):	<input type="text" value="20"/>	<input type="button" value="Compute torque limits"/>
Minimum torque (Nm):	<input type="text" value="18"/>	
Maximum torque (Nm):	<input type="text" value="22"/>	
Torque angle threshold (Nm):	<input type="text" value="0.5"/>	
Minimum angle (°):	<input type="text" value="1"/>	
Maximum angle (°):	<input type="text" value="150"/>	
Program name:	<input type="text" value="Tight 1"/>	
Wrench torque threshold (Nm):	<input type="text" value="0.5"/>	
Tightening direction:	<input type="text" value="Right"/>	
Batch count:	<input type="text" value="3"/>	
Safety torque (Nm):	<input type="text" value="25"/>	



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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	300 Nm Extension	60	300
	400 Nm Extension	80	400
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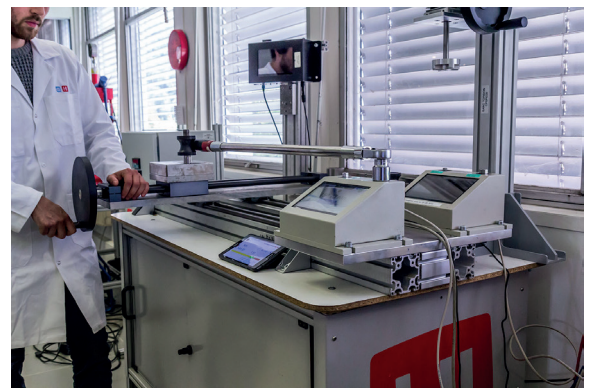
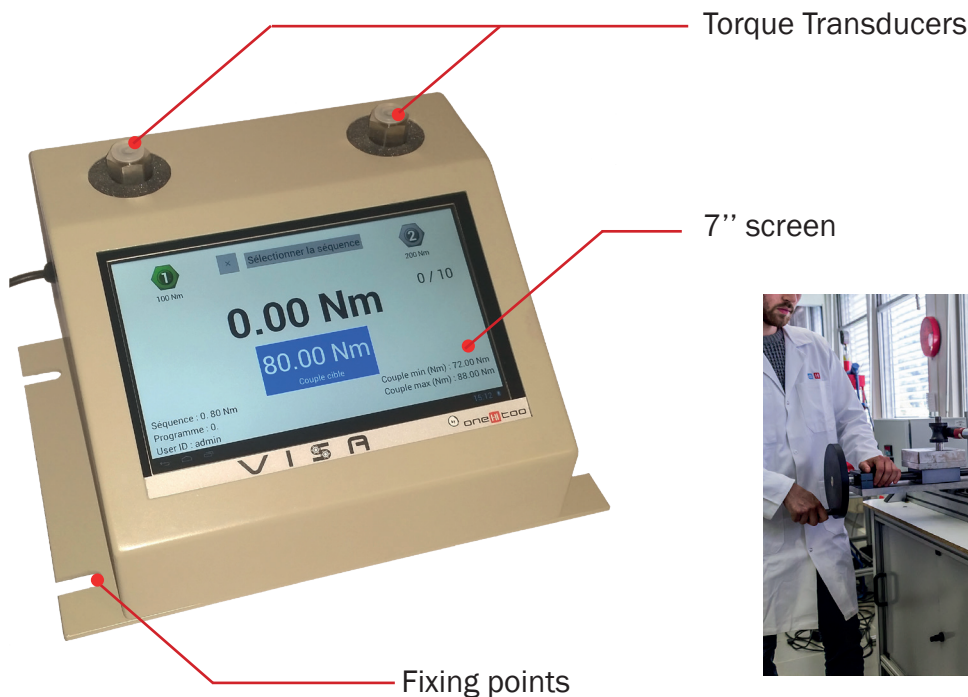
# VISA

## 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

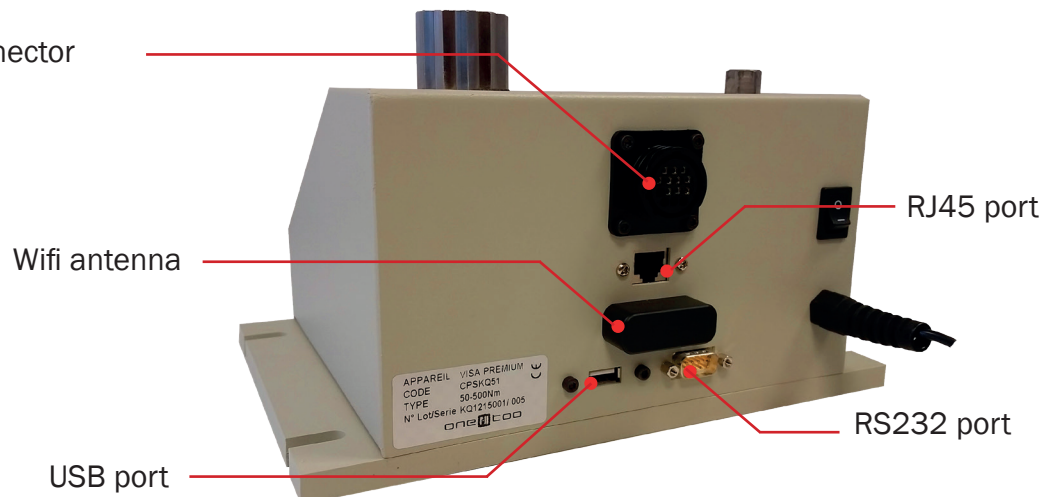
### 4 Modes of use :

- 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

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

Torque Transducers
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

# 25 years of Innovation

Tightening in the automotive sector is a key quality factor. Cylinder head assembly quality on engine block requires much more precise tools in repair than in factory assembly. This can increase quality of clamping operation from 3% to 15%. Thus, to respect a «normal» tolerance it is necessary to use much more precise equipment. The assembly seal is obtained by a pressure connection of the cylinder head to the cylinder block. The pressure comes from a threaded rod that is tensioned. By tightening, the operator measures a torque exerted on a nut, a means dissociated from the lens. Thus with the torque wrench, we can get the right torque, by being in netting. To eliminate parasitic problems, all conditions required for the repair must be taken into account: oiling of the nets, type of washers used, surface condition of the washer, etc.

Jean-Pierre Marlier, CEO One-Too.



In 2000 we revolutionized the tightening by creating a way that had no Moment Alpha equivalent. In 2010, a major turning point in our range, we released our Moment Alpha Too-one. During this period, the need was to accurately measure a torque and angle. But today, expectations have evolved to meet the demands of Industry 4.0. This is why we have created our «Moment Alpha ARGOS» torque handle. More than just a tool, it is a complex system combining advanced technology with high computing power. Providing a clamping solution, guaranteeing industrial efficiency has become the focus of our studies and development. But when it comes to a measuring instrument, what is 4.0? First of all, it offers reliable metrological performance. We measure a torque by bending or twisting and an angle. Secondly, we communicate in «full-duplex» in transmission and reception. In emission, this means transferring the results of the operation, but also the torque and angle curves for further analysis. On receipt, this is to receive the setpoints of the next operation. This is to validate or not the final result, otherwise allow dynamic programming to adapt the sequence of operations. Third, it guides the operator using visual, acoustic and haptic signals during tightening. Finally, it is proposing a modularity of its measurement range from 0.5 to 1000 Nm by extensions, as well as terminations: sockets, crow foot or others. All these accessories are automatically recognized.

From now on, Moment Alpha is no longer a tool dedicated to the automobile, but to any sector where the quality of assembly is a determining factor, such as aeronautics, rail or space. The formula that revolutionized clamping in automotive competition is becoming the key to the success of all these sectors».

Denis Caillet, Technical Director One-Too.





# Bourget Innovation

## Torque Screwdriver - 0.03 to 10 Nm

- 1/2" output
- Traceability in curves or direct results forms
- Uninfluence of the torque according to the grip



Samsung Galaxy Tab A7 Lite

OR



24V Input/Output Box



**Uncertainty  
1% full-scale**

Interchangeable accessories

ON / OFF Button

Bi-color LED ●●

Ergonomic Handle :

- Length : 200 mm
- Diameter : 40 mm
- Weight : 340 grammes

Interchangeable Li-ion battery

- Autonomy : Until 6h
- Charging time : 1h



One-Too Protocol


OR




Open Protocol

\*Compatible :    

# moment alpha



by  one too



AIRBUS



DAIMLER



BOSCH



AIRBUS  
HELICOPTERS



SAFRAN



+33(0) 492 120 480



sales@one-too.com



1ère Avenue 1ère Rue 06510 Carros



one  too

 contact  
azur