

# Torque Measuring Instruments



## EZ SPEC<sup>by</sup> DOGA<sup>®</sup> Torque Tester :

### The new market reference for Static and Dynamic Torque Control

Equipped with a built-in Transducer the EZ serie may be used to calibrate quickly and accurately every kind of fastening tools (torque wrenches, electric and air screwdrivers). Memorized readings can be easily transferred to any kind of computer or printer through RS 232 C port. With The EZ SMART version enjoy extreme measuring flexibility and full traceability of your tools thanks to additional functionalities. External transducers may be connected to the EZ SMART becoming a small-sized portable torque readout to achieve torque audit along the assembly line!

#### QUALITY - COMFORT - FLEXIBILITY

- Easy to use scroll menu
- Real time clock
- 500 datas FIFO memory capacity
- RS232 output
- Mini/ok/Maxi torque limits
- Peak, first peak, track measuring mode
- Automatic and manual reset
- Calibration display

#### SMART additional functionalities :

- Transducer input (to connect external transducer - static or rotary)
- Mini/ok/Maxi torque limits with dry contact output
- Impulse tools measuring mode
- CM,CMK statistics, average, standard deviation
- Dry contact output to manage torque limit signal



Model	Capacity	Power supply	Autonomy	Male hexagonal drive	Statistics	Impulse	Code
EZ 2	2 Nm +/- 0,01 Nm	9V Cell / 220V	18 h 00	13 mm A/F	Without	No	7 500 288
EZV2 SMART	2 Nm +/- 0,01 Nm	9V Cell / 220V	18 h 00	13 mm A/F	With	Yes	7 500 278
EZ 5	5 Nm +/- 0,02 Nm	9V Cell / 220V	18 h 00	13 mm A/F	Without	No	7 500 257
EZ5V2 SMART	5 Nm +/- 0,02 Nm	9V Cell / 220V	18 h 00	13 mm A/F	With	Yes	7 500 280
EZ 20	20 Nm +/- 0,08 Nm	9V Cell / 220V	18 h 00	13 mm A/F	Without	No	7 500 500
EZ20V2 SMART	20 Nm +/- 0,08 Nm	9V Cell / 220V	18 h 00	13 mm A/F	With	Yes	7 500 282

Delivered with a suitcase, one 9 volts cell, one charger and a control certificate.  
The test joint is not included and must be ordered separately.

## Test joints for EZ testers and static torque transducers

The test joints allow to simulate franc, semi-elastic or elastic assembly. They integrate the screwdriver rotation speed and they simulate your assembly conditions for an optimized adjustment.

The SVS13 test joints are suitable with all the EZ testers and the static transducers until 20 Nm.  
The SVS24 test joints are suitable with static transducers from 200 to 500 Nm.



Model	Fastening simulation	Drive	Code
SVS 13 F	Franc	1/4" male hexagonal	7 502 000
SVS 13 SE	Semi-elastic	1/4" male hexagonal	7 502 001
SVS 13 E	Elastic	1/4" male hexagonal	7 502 002
SVS 24 F	Franc	24 mm A/F male hexagonal	7 502 003
SVS 24 SE	Semi-elastic	24 mm A/F male hexagonal	7 502 004
SVS 24 E	Elastic	24 mm A/F male hexagonal	7 502 005

Dedicated to very low torques, the screw test joints SAV13 are suitable with all the EZ testers and static transducers until 20 Nm.

Model	Drive	Code
SAV 13 M2	M2 hex. int. screw	7 500 502
SAV 13 M3	M3 hex. int. screw	7 500 503
SAV 13 M4	M4 hex. int. screw	7 500 504

Ideal for laboratory  
test and spot control  
along the assembly line

## SPEC by DOGA torque readouts for external static and dynamic transducers

Easy to use and equipped with a high accurate electronics.

- Easy to use scroll menu
- 500 data FIFO memory capacity
- RS232 output
- Mini/ok/Maxi torque limits with dry contact output
- Peak/first peak/track signals
- Suitable with impulse tools (SMART model only)
- Cp, Cpk statistics, average, standard deviation (SMART model only)



Model	Accuracy	Power supply	Autonomy (on cell)	Statistics	Impulse tool	Code
TAV2	0,05 %	9V Cell / 220V charger	18 h 00	Without	No	7 500 283
TA SMARTV2	0,05 %	9V Cell / 220V charger	18 h 00	With	Yes	7 500 284

Delivered with a suitcase, one 9 volts cell, one charger and a control certificate.

## SPEC by DOGA Static torque transducers

The ST static torque transducers are suitable with "TAV2" and "TA SMARTV2" torque readouts. They are dedicated to the static control and the calibration of your electric and pneumatic screwdrivers, impulse and torque wrenches.



Model	Capacity	Sensitivity	Male hexagonal drive	Code
ST 2	2 Nm +/- 0,008 Nm	base Diam 54 - 4 holes 4,2 mm	13 mm A/F	7 501 020
ST 20	20 Nm +/- 0,08 Nm	base Diam 54 - 4 holes 4,2 mm	13 mm A/F	7 501 021
ST 100	100 Nm +/- 0,4 Nm	base Diam 79 - 4 holes 6,5 mm	24 mm A/F	7 500 290
ST 200	200 Nm +/- 0,8 Nm	base Diam 79 - 4 holes 6,5 mm	24 mm A/F	7 501 023
ST 500	500 Nm +/- 2 Nm	base Diam 98 - 6 holes 8,5 mm	24 mm A/F	7 500 259
ST 1000	1000 Nm +/- 4 Nm	base Diam 98 - 8 holes 8,5 mm	38 mm A/F	7 500 260

Delivered with a connection cable (code 7500404).

The test joint is not included and must be ordered separately.

## SPEC by DOGA rotary torque transducers with brushes

The rotary torque transducers are suitable with "TA" and "TA SMART" torque readouts.

They are equipped with self-lubricating brushes and high accurate ball bearings.

This range will answer to your quality and lifetime requirements.

- Self lubricating brushes for an increased lifetime
- 1/4" quick chuck for all the transducers until 20 Nm
- Speed rotation up to 5000 rpm
- Allowable overload until 150 % of full scale



Model	Capacity	Sensitivity	Input drive	Output drive	Code
B 2 H	2 Nm +/- 0,008 Nm	3000 rpm	1/4" male hexagonal	1/4" fast hex.chuck	3 000 118
B 6 H	6 Nm +/- 0,02 Nm	3000 rpm	1/4" male hexagonal	1/4" fast hex.chuck	3 000 125
B 12 H	12 Nm +/- 0,04 Nm	3000 rpm	1/4" male hexagonal	1/4" fast hex.chuck	3 000 357
B 20 H	20 Nm +/- 0,08 Nm	3000 rpm	1/4" male hexagonal	1/4" fast hex.chuck	3 000 129
B 25 Q	25 Nm +/- 0,1 Nm	3000 rpm	3/8" female square	3/8" male square	3 000 130
B 63 Q	63 Nm +/- 0,2 Nm	3000 rpm	3/8" female square	3/8" male square	3 000 131
B 160 Q	160 Nm +/- 0,6 Nm	3000 rpm	1/2" female square	1/2" male square	3 000 132
Connection cable lenght 2,5 m (Not delivered with the transducer. To be ordered separately).					3 080 047

Additional technical datas: maximum rotation speed: 3000 rpm. Clockwise and counterclockwise measurement. Other torque ranges and torque & angle version available on inquiry. The B transducers are not suitable with impact and impulse wrenches.



# Brushless Dynamic Measurement

Ideal for permanent torque control along the assembly line

**SPEC by DOGA** memory torque readouts for brushless transducers  
Easy to use and equipped with a high accurate electronics.

- Easy to use scroll menu
  - Real time clock
  - 500 datas FIFO memory capacity
  - RS232 output
  - Mini/ok/Maxi torque limits
  - Peak, first peak, track measuring mode
  - Automatic and manual reset
  - Calibration display
- TA SB SMART**
- Suitable with impulse tools
  - Cp, cpk statistics...
- R-TA SB SMART**
- Steel Rack housing Dim 144 x 72 mm
  - Analog output +/- 10V
  - Go, NoGo external leds
  - Data acquisition may be monitored by external top (from PLC...)
  - Angle control (optional - on request)



Model	Accuracy	Power supply	Battery autonomy	Statistics	Impulse tool	Code
TA SBV2	+/- 0,05 %	220V and battery	8 h 00	Without	No	<b>7 500 253</b>
TA SB SMART V2	+/- 0,05 %	220V and battery	8 h 00	With	Yes	<b>7 500 255</b>
R-TA SB SMART	+/- 0,05 %	220V	8 h 00	With	Yes	<b>3 050 021</b>

Delivered with a carrying case, a battery charger and a control certificate.  
The connection cable is not included and must be ordered separately.

## SPEC by DOGA brushless rotary torque transducers

The solution to fit your requirements of accuracy level, life time, reduced maintenance costs and fast application. The brushless rotary torque transducers are equipped with a brushless signal transmission, a power supply system and one integrated amplifier. You have at your disposal a complete range adapted to intensive use for any kind of fastening tools.

- Suitable with impulse tools
- Maximum rotation speed: 12000 rpm
- +/- 5 volts analog output
- Allowable overload until 150 %



Model	Capacity	Output signal	Input drive	Output drive	Code
SB 2 H	2 Nm +/- 0,004 Nm	+/- 5V	1/4" male hexagonal	1/4" fast hex chuck	<b>7 500 012</b>
SB 6 H	6 Nm +/- 0,012 Nm	+/- 5V	1/4" male hexagonal	1/4" fast hex chuck	<b>7 500 055</b>
SB 12 H	12 Nm +/- 0,024 Nm	+/- 5V	1/4" male hexagonal	1/4" fast hex chuck	<b>7 500 056</b>
SB 18 H	18 Nm +/- 0,036 Nm	+/- 5V	1/4" male hexagonal	1/4" fast hex chuck	<b>7 500 013</b>
SB 50 Q	50 Nm +/- 0,1 Nm	+/- 5V	3/8" female square	3/8" male square	<b>7 500 014</b>
SB 150 Q	150 Nm +/- 0,3 Nm	+/- 5V	3/8" female square	3/8" male square	<b>7 500 015</b>
SB 250 Q	250 Nm +/- 0,5 Nm	+/- 5V	3/4" female square	3/4" male square	<b>7 500 016</b>
SB 500 Q	500 Nm +/- 1 Nm	+/- 5V	3/4" female square	3/4" male square	<b>7 500 059</b>
Connection cable length 2 m (Not delivered with the transducer. To be ordered separately).					<b>7 500 111</b>

Other torque ranges and torque & angle version available on inquiry.



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