

INDUSTRIAL BATTERY TOOLS

BSTP / BSTA / BSTCA series





PRODUCTIVE SOLUTIONS

As an industrial process expert, we help you meet your challenges.

Productivity, safety, quality, industry 4.0 are themes on which we can offer you our expertise and our solutions. Whether in the field of assembly technology, machining or welding, our dedicated and specialized teams accompany your progress and recommend solutions and equipment to reach performance levels in line with your industrial strategy.



Certified quality

From design to commissioning, DOGA guarantees the quality of this equipment and services according to ISO 9001: 2015 certification.

5 Reasons to trust us



Expertise

Our Field experts propose solutions adapted to your environment and specific needs..



Innovation

By developing the products and the services of tomorrow, we offer you new perspectives or prospects.



Performance

Our high added value solutions improve your performance and guarantee the final quality of the production.



Commitment

Aware of your objectives, we commit ourselves to helping you to reach them.



Reliability

Our organization, which has been ISO 9001 certified since 1996, is the guarantee of your satisfaction.



ASSEMBLY TECHNOLOGY

As a world class assembly technology player, we manufacture and market equipment and solutions for the assembly industry which contribute to the improvement of your manufacturing quality and productivity.

Our assembly, ergonomics and traceability solutions contribute to enhancing your productivity, controlling your process quality and meeting the requirements of industry 4.0.

We offer products designed to last and high value-added services by relying on our team's know-how and expertise: design, production, installation, start-up, training and maintenance. We support you locally thanks to our worldwide presence through our subsidiaries and our specialized distribution network.



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SUMMARY

INDUSTRIAL BATTERY TOOLS

BSTP / BSTA / BSTCA series



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FOR TOTAL FREEDOM OF MOVEMENT

Designed for industrial use, our battery screwdrivers are precise and robust while being lightweight and easy to handle.

Assembled around modern brushless motors, they have a long autonomy thanks to high capacity 18 V Li-Ion batteries and their speed can be programmed using the SP-18V-V2 programmer.



Ergonomy

- 3 models available : pistol, angle head and gear offset head
- Battery-powered for greater mobility
- Balanced and perfectly sized tool
- Ergonomic handle for improved operator comfort
- Ergonomics developed to reduce vibrations and improve user comfort



Quality

- Robust design of the mechanics and composite body
- Accurate and repeatable clutch, comply with ISO 5393
- Advanced features : soft start, OK / NOK tightening state LED, programmable speed with the SP-18V-V2 programmer, battery charge standby with automatic switch-off



Productivity

- Maintenance-free brushless motors
- High and adjustable rotation speed
- Autonomy of 18 V Li-ion batteries



Pistol screwdrivers - BSTP series

DOGA Li-ion battery pistol screwdrivers are designed with industrial production in mind.

Ergonomic, robust and precise, they are also flexible thanks to their programmable rotation speed.

Moreover, with their brushless motor, maintenance costs are considerably reduced.



Angle head screwdrivers - BSTA series

Like the pistol models, the balanced center of gravity of angle head screwdrivers makes them easy to handle and comfortable to use.

The angle head optimises screwdriving ergonomics.



Compact angle head screwdrivers - BSTCA series

The BSTCA compact angle head screwdrivers have the same features as the BSTA angle head screwdrivers, but in a compact version for maximum accessibility.



Geared offset head screwdrivers (crowfoot) - BSTA - BCA/BOA/ICA/IOA series

Geared offset head based on angle head screwdrivers incorporate additional gear trains at the end, known as geared offset head or crowfoot.

These geared offset head meet the dimensional constraints imposed by difficult to access tightening.

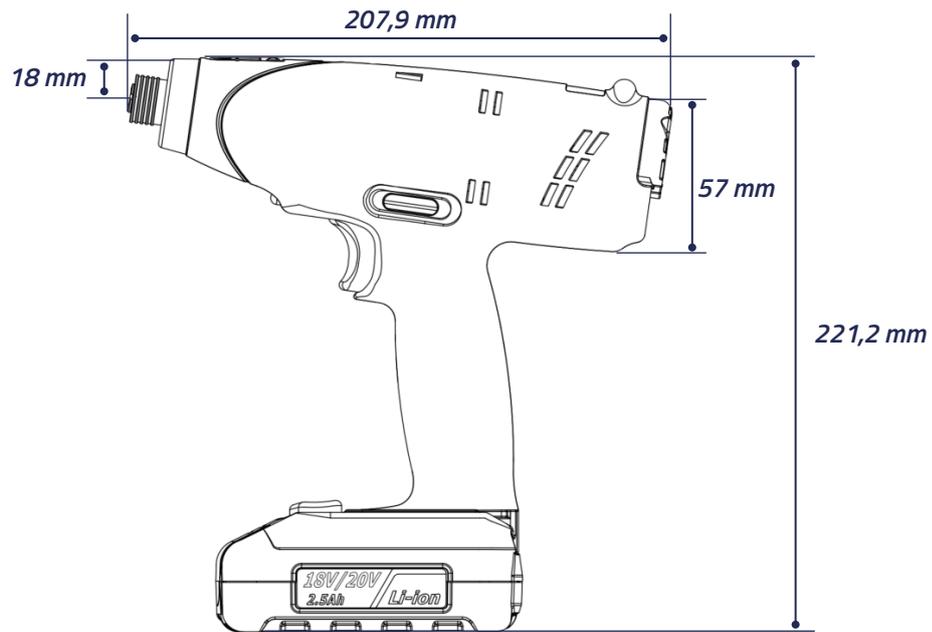
PISTOL SCREWDRIVERS - BSTP SERIES

Our battery Li-ion pistol screwdrivers BSTP series are designed for industrial use. They are manufactured according to ergonomic, precision and robustness criteria. Equipped with brushless motors, they have a soft start and programmable speed with programmer SP-18V-V2.

- ▶ Powerful Lithium-ion battery for longer operating time and life duration, with capacity gauge
- ▶ Maintenance free « brushless » motor
- ▶ Ergonomics developed to reduce vibrations and improve operator comfort
- ▶ Visual (colored LED) and audible (bip) information on the result of tightening OK / NOK
- ▶ Automatic stop and signal light before the battery is too much discharged
- ▶ Inductive reversibility button



Dimensions



Technical specifications

Designation	Voltage (V)	Drive	Torque (Nm)	Speed*** (rpm)	Weight w/o battery (kg)	Code
BSTP 18-3 HD 1/4-A	18	Hex 1/4**	0.8 to 3*	600 to 1200	0.95	P100756
BSTP 18-6 HD 1/4	18	Hex 1/4**	1.0 to 6*	300 to 1000	0.95	P100325
BSTP 18-9 HD 1/4	18	Hex 1/4**	1.5 to 9*	300 to 800	0.95	P100616
BSTP 18-12 HD 1/4	18	Hex 1/4**	2 to 12*	250 to 600	0.95	P100093

Each tool is delivered with one torque adjusting screwdriver.

* Torque range is given for hard joint conditions < or = to 30°.

** Quick chuck.

*** Maximum speed as standard, adjustable speed range if using the programmer.

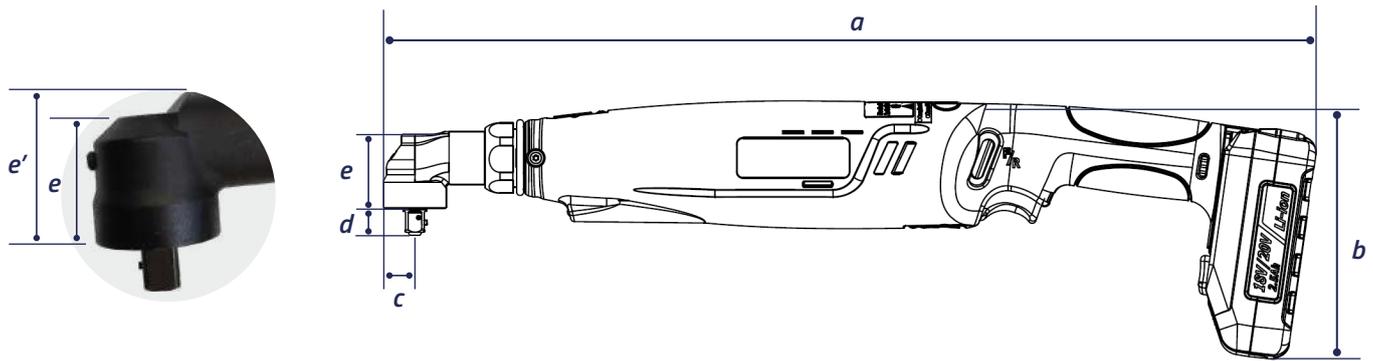
ANGLE HEAD SCREWDRIVERS - BSTA SERIES

Our angle head screwdrivers BSTA series are perfectly balanced for maximum comfort and handling. Each type is dimensioned with precision to easily stand torque reactions. The position of angle head can be adjusted at 360° for an easy access and best ergonomics. Equipped with brushless motors, they have a soft start and programmable speed with the programmer SP-18V-V2.

- ▶ Powerful Lithium-ion battery for longer operating time and life duration, with capacity gauge
- ▶ Maintenance free « brushless » motor
- ▶ Ergonomics developed to reduce vibrations and improve operator comfort
- ▶ Visual (colored LED) and audible (bip) information on the result of tightening OK / NOK
- ▶ Automatic stop and signal light before the battery is too much discharged
- ▶ Inductive reversibility button
- ▶ Adjustment of the speed of rotation in screwing / unscrewing by programmer (supplied as an option)



Dimensions



Designation	Drive	a (mm)	b (mm)	c (mm)	d (mm)	e / e' (mm)
BSTA-10 and BSTA-16	Hex 1/4	469	132	16	19	39
	Square 1/4 (ball)				12	
	Square 3/8 (pin)				14	
BSTA-30 and BSTA-35	Square 3/8 (pin)	474	132	16	14	39
BSTA-50 and BSTA-60	Square 3/8 (pin)	570	132	18.5	14	34 / 43
	Square 1/2 (pin)				18.5	
BSTA-70 and BSTA-90	Square 3/8 (pin)	583	132	21.7	14	43 / 50
	Square 1/2 (pin)				18.5	

Technical specifications

Designation	Voltage (V)	Drive	Torque (Nm)	Speed* (rpm)	Weight w/o battery (kg)	Code
BSTA-10 HD 1/4	18	Hex 1/4 (quick chuck)	3 to 12	400 to 1000	1.6	P102900
BSTA-10 SD 1/4	18	Square 1/4	3 to 12	400 to 1000	1.6	P107175
BSTA-10 SD 3/8	18	Square 3/8	3 to 12	400 to 1000	1.6	P103491
BSTA-16 HD 1/4	18	Hex 1/4 (quick chuck)	5 to 18	300 to 600	1.6	P141552
BSTA-16 SD 1/4	18	Square 1/4	5 to 18	300 to 600	1.6	P113257
BSTA-16 SD 3/8	18	Square 3/8	5 to 18	300 to 600	1.6	P103177
BSTA-30 SD 3/8	18	Square 3/8	8 to 30	250 to 480	1.6	P100583
BSTA-35 SD 3/8	18	Square 3/8	10 to 35	200 to 330	2	P100741
BSTA-50 SD 3/8	18	Square 3/8	10 to 50	200	2	P103187
BSTA-50 SD 1/2	18	Square 1/2	10 to 50	200	2	P101538
BSTA-60 SD 3/8	18	Square 3/8	25 to 60	160	2	P113369
BSTA-60 SD 1/2	18	Square 1/2	25 to 60	160	2	P104946
BSTA-70 SD 3/8	18	Square 3/8	20 to 70	170	2.5	P105850
BSTA-70 SD 1/2	18	Square 1/2	20 to 70	170	2.5	P102696
BSTA-90 SD 1/2	18	Square 1/2	40 to 90	90	2.5	P101077

Each tool is delivered with one torque adjusting screwdriver and one set of color rings.

Torque range is given for hard joint conditions < or = to 30°.

BSTA-50, BSTA-60, BSTA-70 and BSTA-90 must be equipped with 5 Ah battery model to reach the maximum torque (hard joint).

* Maximum speed as standard, adjustable speed range if using the programmer.

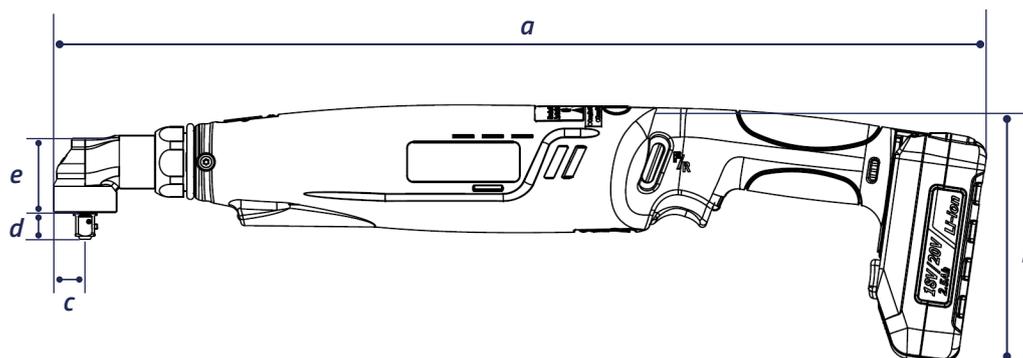
COMPACT ANGLE HEAD SCREWDRIVERS - BSTCA SERIES

Our angle head BSTCA series are compact versions designed for maximum accessibility. Each type is dimensioned with precision to easily stand torque reactions. The position of angle head can be adjusted at 360° for an easy access and best ergonomics. Equipped with brushless motors, they have a soft start and programmable speed with the programmer SP-18V-V2.

- ▶ Powerful Lithium-ion battery for longer operating time and life duration, with capacity gauge
- ▶ Maintenance free « brushless » motor
- ▶ Ergonomics developed to reduce vibrations and improve operator comfort
- ▶ LED lighting of the working area
- ▶ Visual (colored LED) and audible (bip) information on the result of tightening OK / NOK
- ▶ Automatic stop and signal light before the battery is too much discharged
- ▶ Inductive reversibility button
- ▶ Adjustment of the speed of rotation in screwing / unscrewing by programmer (supplied as an option)



Dimensions



Designation	Drive	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)
BSTCA-07 and BSTCA-14	Hex 1/4 (bit)	370	131	12.5	4	26.5
	Hex 1/4 (quick chuck)			12.5	21	26.5
	Square 1/4 (ball)			12.5	12	26.5
	Square 3/8 (pin)			12.5	13.5	26.5
BSTCA-30	Square 3/8 (pin)	445	131	16	13.5	38

Technical specifications

Designation	Voltage (V)	Drive	Torque (Nm)	Speed* (rpm)	Weight w/o battery (kg)	Code
BSTCA-07 HD 1/4 BITS	18	Hex 1/4 (bit)	1.8 to 7	400 to 800	1.5	P109023
BSTCA-07 HD 1/4	18	Hex 1/4 (quick chuck)	1.8 to 7	400 to 800	1.5	P116825
BSTCA-07 SD 1/4	18	Square 1/4	1.8 to 7	400 to 800	1.5	P105801
BSTCA-07 SD 3/8	18	Square 3/8	1.8 to 7	400 to 800	1.5	P141565
BSTCA-14 HD 1/4 BITS	18	Hex 1/4 (bit)	3.5 to 14	200 to 500	1.5	P104330
BSTCA-14 HD 1/4	18	Hex 1/4 (quick chuck)	3.5 to 14	200 to 500	1.5	P113399
BSTCA-14 SD 1/4	18	Square 1/4	3.5 to 14	200 to 500	1.5	P103867
BSTCA-14 SD 3/8	18	Square 3/8	3.5 to 14	250 to 500	1.5	P101025
BSTCA-30 SD 3/8	18	Square 3/8	8 to 30	200	1.9	P102019

Each tool is delivered with one torque adjusting screwdriver and one set of color rings.

Torque range is given for hard joint conditions < or = to 30°.

* Maximum speed as standard, adjustable speed range if using the programmer.

GEARED OFFSET HEAD SCREWDRIVERS - BSTA SERIES

BCA/BOA/ICA/IOA

Identical to standard screwdrivers, these angle screwdrivers are also equipped with a geared offset head (crowfoot). Open or closed, fixed or adjustment angle, crowfoots are the solution to your access problem. Equipped with brushless motors, they have a soft start and programmable speed with the programmer SP-18V-V2.

- ▶ Powerful Lithium-ion battery for longer operating time and life duration, with capacity gauge
- ▶ Maintenance free « brushless » motor
- ▶ Basic (B) or in-line (I) crowfoot, open (O) or closed (C) version
- ▶ Ergonomics developed to reduce vibrations and improve operator comfort
- ▶ LED lighting of the working area
- ▶ Visual (colored LED) and audible (bip) information on the result of tightening OK / NOK
- ▶ Automatic stop and signal light before the battery is too much discharged
- ▶ Inductive reversibility button



Geared offset head dimensions

Designation	W	D	O	R	L	L1	H	H1
BCA	32	10	-	13.1	37.7	-	16	-
BOA	40	13	10.2	17	40	-	21	16
ICA	32	10	-	13.1	159	91	16	-
IOA	40	13	10.2	17	166.7	98.7	20	16

Special dimensions possible on request (questionnaire 60386).

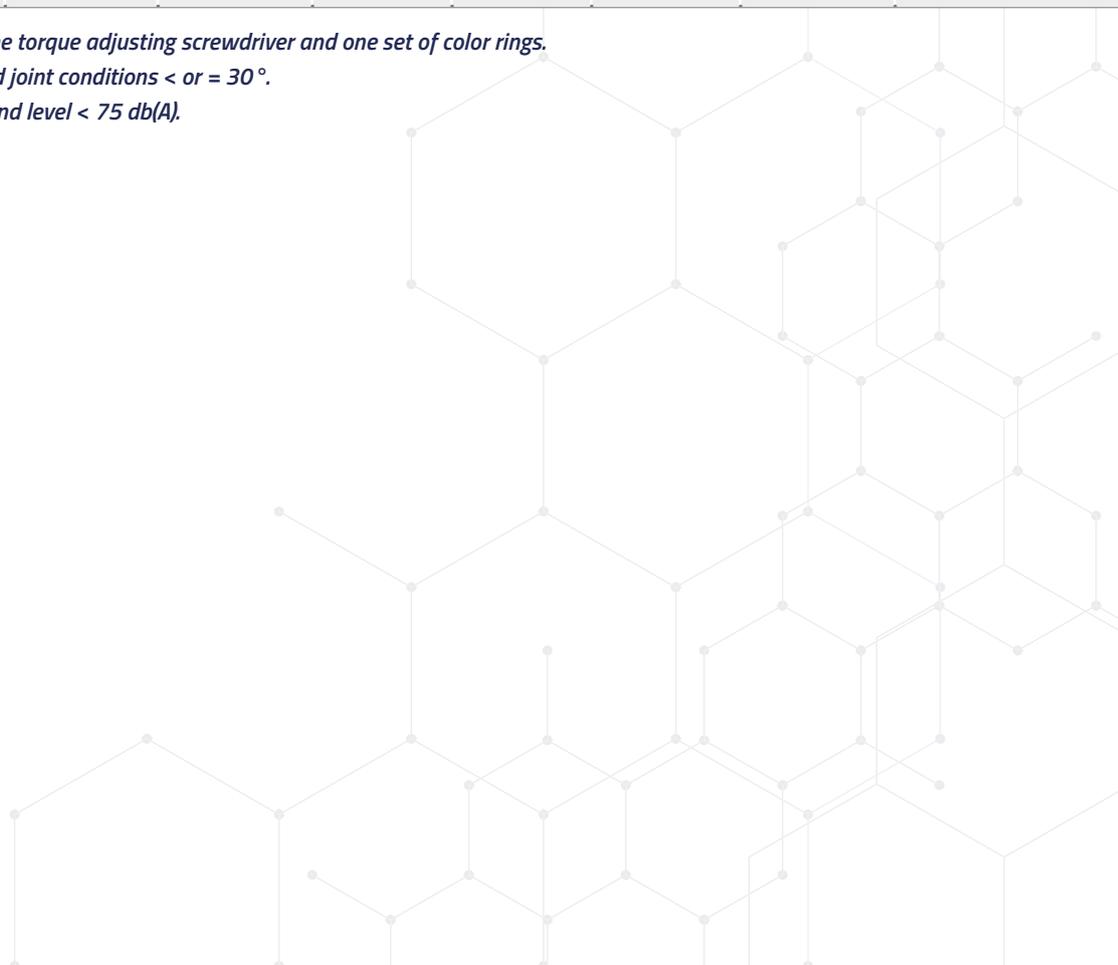
Technical specifications

Designation	Voltage (V)	Drive	Torque (Nm)	Speed (rpm)	Weight w/o battery (kg)	Code
BSTA-10 BCA	18	Hex 10	3 to 8	950	2	P141553
BSTA-16 BCA	18	Hex 10	5 to 13	600	2	P141554
BSTA-30 BCA	18	Hex 10	8 to 18	450	2	P141555
BSTA-10 BOA	18	Hex 13	3 to 7	950	2.1	P141556
BSTA-16 BOA	18	Hex 13	5 to 12	600	2.1	P141557
BSTA-30 BOA	18	Hex 13	8 to 17	450	2.1	P141558
BSTA-10 ICA	18	Hex 10	5 to 11	620	2.2	P141559
BSTA-16 ICA	18	Hex 10	8 to 17	380	2.2	P141560
BSTA-30 ICA	18	Hex 10	11 to 23	300	2.2	P141561
BSTA-10 IOA	18	Hex 13	7 to 13	420	2.3	P141562
BSTA-16 IOA	18	Hex 13	10 to 22	270	2.3	P141563
BSTA-30 IOA	18	Hex 13	13 to 28	200	2.3	P141564

Each tool is delivered with one torque adjusting screwdriver and one set of color rings.

Torque range is given for hard joint conditions $\alpha \leq 30^\circ$.

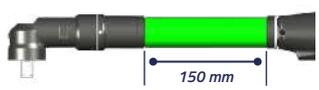
Vibration $< 2,5 \text{ m/s}^2$ and sound level $< 75 \text{ db(A)}$.



ACCESSORIES, BATTERIES AND SERVICES

Accessories

Designation	Compatibility		Code	
Torque adjusting screwdriver (delivered with the screwdriver)	For BSTP, BSTA, BSTCA, BSTA - BCA/BOA/ICA/IOA		P109116	
Programmer SP-18V-V2 (see details on page 16)	For BSTP, BSTA, BSTCA		P100847	
Tool cover	For BSTP		P100785	
	For BSTA-10 ==> BSTA-35		P101789	
	For BSTA-50/60		P103502	
	For BSTA-70/90		P103209	
	For BSTCA-07/14		P104976	
	For BSTCA-30		P113617	
Suspension ring	For BSTP		P105861	
	For BSTA		P106978	
Identification ring	For BSTP	Black (delivered assembled with the screwdriver)	P142057	
		Bronze	P113055	
		Blue	P106840	
		Purple	P142102	
Identification ring mounting tool	For BSTP		P142103	
Rings (delivered with the screwdriver)	For BSTA and BSTA - BCA/BOA/ICA/IOA	Blue	P141824	
		Red	P141816	
		White	P141817	

Designation	Compatibility	Code	
Angle head position adjustment, end fitting 14 x 18 mm spanner	For BSTA-50/60	P142109	
	For BSTA-70/90	P142110	
	For BSTCA-30	P142085	
28 mm spanner for indexing the angle head (delivered with the screwdriver)	For BSTA-10/16/30/35 and BSTA-BCA/BOA/ICA/IOA	P141819	
Reaction bar	For BSTA-70/90	P113656	
Extension tool body 150 mm to reduce the torque reaction (need to add tooling for angle head position adjustment BSTA-70/90 or installation by our workshop)	For BSTA-90	P104669	

Batteries / charger



Designation	Capacity (Ah)	Weight (kg)	Code
Li-ion BB 200LI-25 battery	2.5	0.39	P100014
Li-ion BB 200LI-50 battery	5	0.67	P100121
CR19-BTP charger			P100019

Designation	Compatibility	Code	
Battery protection BB 200LI-25	For BSTP, BSTA, BSTCA, BSTA - BCA/BOA/ICA/IOA	P101705	
Battery protection BB 200LI-50	For BSTP, BSTA, BSTCA, BSTA - BCA/BOA/ICA/IOA	P102675	

For models BSTA-50, BSTA-60, BSTA-70 and BSTA-90, the 5 Ah high-capacity battery must be used to achieve maximum torque (hard joint).

Services

Designation	Code
Adjustment of the screwdriver to the required torque with supply of a machine aptitude certificate (MAC)	P179363

RELATED PRODUCTS

SP-18-V2 programmer

Dedicated to DOGA battery screwdrivers with mechanical clutch, it allows rapid programming.

- ▶ Speed adjustment in screwing and reverse
- ▶ Manual, inhibited or automatic reversibility (change from reverse to screwing mode only, without pressing the reversibility button)
- ▶ Activation / deactivation of BIP sound
- ▶ Soft start
- ▶ Temporized trigger start
- ▶ Temporized LED lighting
- ▶ Multi hit reverse mode
- ▶ Supplied with mini USB cord for tool connection



Designation	Code
SP-18V-V2 programmer	P100847

Holster

Very simple and quick to install, holsters allow you to optimize your workstation ergonomics.

The tool is tidy, secure and within easy reach of the operator.

A simple accessory that actively contributes to operator's productivity and reduces cost by avoiding tool falls.

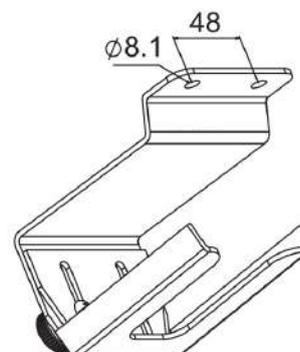
- ▶ Suitable with all DOGA industrial battery tools (pistol, angle-head, crowfoot)
- ▶ Easy and quick to install on a table or chassis



For BSTP screwdrivers



For BSTP / BSTA screwdrivers



Designation	Compatibility	Code
Holster	For BSTP and BSTA	P101464
Pistol screwdrivers holster	For BSTP	P141826

Bits, special bits, bit holders



Our range of bits is one of the most complete on the market. It consists of a wide variety of bits (footprints / drives) standard or customized, as well as bit holders, adapters and accessories.

- ▶ More than 600 references of industrial bits managed in stock
- ▶ Creation of tailor-made bits
- ▶ Wide choice of safety models
- ▶ Magnetic and non-magnetic versions

> Learn more about our industrial bits



Standard and special impact sockets



Available in 1/4" to 2 1/2" drive squares, our impact sockets are designed for the most extreme uses of torque and speed.

The square drive transmits all power to the tool while preserving socket life expectancy.

- ▶ Standard impact sockets available in a multitude of versions
- ▶ Special sockets to ensure efficient assembly and apply precise torque during your specific assembly operations.

> Learn more about our standard and special impact sockets



Torque testers



DOGA EZ V4 torque testers incorporate a static torque and cover a torque range from 0.2 to 20 Nm.

- ▶ EZ2 V4 torque tester (from 0.2 to 2 Nm, +/- 2 % of the measuring range)
- ▶ EZ10 V4 torque tester (from 1 to 10 Nm, +/- 1 % of the measuring range)
- ▶ EZ20 V4 torque tester (from 2 to 20 Nm +/- 1 % of the measuring range)

> Learn more about our torque testers



OUR SERVICES

At DOGA we put at your disposal our reliable, accurate and user-friendly tightening solutions. It is our duty to advise you of the right solution for your application. Our Product Manager and Support engineering teams are here to analyze your manufacturing process and share with you our innovative solutions to improve your assembly process. Thanks to our technical integration service CELPRO, we provide you with turnkey solutions from design to commissioning.



TURNKEY SOLUTIONS

Using all the options of our complete product range, we offer you solutions adapted to your needs.

- ▶ Custom Design
- ▶ Adaptation of existing models
- ▶ Integration of automation system



TECHNICAL ASSISTANCE

To ensure the optimal performance and durability of our tools, we put our technical assistance at your disposal.

- ▶ Installation and start-up
- ▶ Maintenance agreement
- ▶ On-site maintenance
- ▶ Maintenance in our workshop



TRAINING

DOGA offers specialized training courses for our industries:

- ▶ Technical & practical
- ▶ Audit & Consulting

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