

WIRELESS ADVANCED TRANSDUCERIZED TOOLS

BMT40 serie





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

WIRELESS ADVANCED TRANSDUCERIZED TOOLS

BMT40 Series

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A RANGE OF POWERFUL AND CONNECTED WIRELESS TRANSDUCERIZED SCREWDRIVERS

BMT40 serie battery-powered torque and angle screwdrivers are designed to meet your requirements for productivity, quality and traceability, while giving you great mobility.

Thanks to state-of-the-art on-board technologies, they can be directly connected to your network and 100% communicating. With no intermediate controller, they are resolutely focused to your Industry 4.0 projects.

These screwdrivers combine ergonomics, autonomy, multi-torque, multi-strategy and connectivity.

Their great versatility will meet your most demanding needs as well as classic screwing applications.

These « Plug & Play » screwdrivers are ready to use in 1 minute!

They are available in pistol version, with angle gear and barcode scanner. Their torque range is from 0,5 to 120 Nm, and they are all equipped with colordisplay and navigation buttons.



Ergonomy

- 2 models available: pistol and angle gear
- Wireless for greater mobility
- Lightweight, well-balanced tool
- 4 multi-function buttons: navigation, selection and interaction, ...
- On-board AMOLED color display for fast visualization of results
- Easy setup and programming



Quality

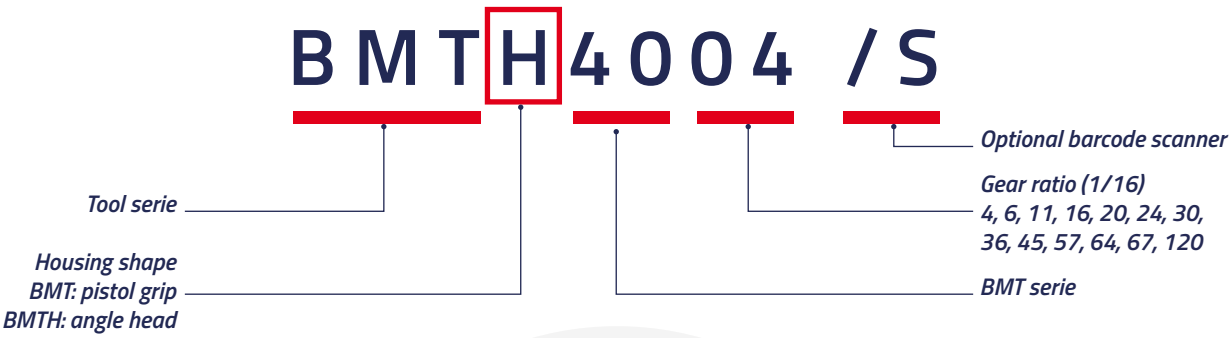
- Maintenance free brushless motor
- Torque and angle current control for optimum precision
- 31 screwdriving programs + 2 multi-sequences
- Advanced features (self-tapping, screwing at an angle, ...)
- Precise speed control
- Torque-optimized free speed
- Optional integrated barcode reader (cycle selection and traceability)
- Traceability



Industry 4.0

- Integrated web server for easy remote settings
- Real-time monitoring of tightening data and display of tightening curves
- Wi-Fi communication
- Communication protocols: Modbus TCP, DOGANet, Open Protocol, Profinet, Ethernet IP, ...

Model designation



Ergonomy



Optional 1D and 2D barcode scanner



Specifications

Electric power	DC 25.2 V, lithium-ion battery
Motor	Swiss DC servo motor, brushless
Wi-Fi	IEEE 802.11a/b/g/n 2.4 GHz & 5 GHz dual band WPA/WPA2-PSK, WPA/WPA2-Enterprise (EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-LEAP), WPA3 personal
Speed	Auto speed by torque setting
Data memory	65 000 results
USB	Micro USB port
Display	1.29" AMOLED color display
Number of presets	31 presets 2 multi-sequences programs
Communication	Modbus TCP, Open Protocol et DOGANet
Firmware	V4.x.x minimum or over

Features

- ▶ Connected screwdrivers, Wi-Fi wireless communication, no need for box or additional accessories.
- ▶ « Plug & Play » stand-alone screwdrivers, ready to use in 1 minute.
- ▶ Torque and angle control guarantees precision over the entire torque range of screwdrivers.
- ▶ Precise closed-loop speed control with integrated digital angle sensor.
- ▶ Auto-speed setting by torque.
- ▶ Digital torque and angle program in 31 presets and 2 multi step sequence programs.
- ▶ Programming directly on the machine, via ParaMon4 software or web server (PC, tablet or smartphone).
- ▶ Quality monitoring of your product assembly with tightening strategies, batch counting, assembly visualization and logical input / output management (Job Manager function with ParaMon-Pro X controller).
- ▶ Detailed display of events.
- ▶ Real-time torque data and curve displayed via ParaMon software or web server.
- ▶ Real-time fastening data output by USB and Wi-Fi.
- ▶ Modbus TCP or Open Protocol protocols.
- ▶ Profinet, TCP / Ethernet IP, etc. protocols (available as option).
- ▶ Integrated 1D and 2D barcode scanner (optional) for automatic program selection and traceability of screwdriving results.
- ▶ Compatible with crowfoots.
- ▶ Available with a V4.x.x firmware minimum or over.

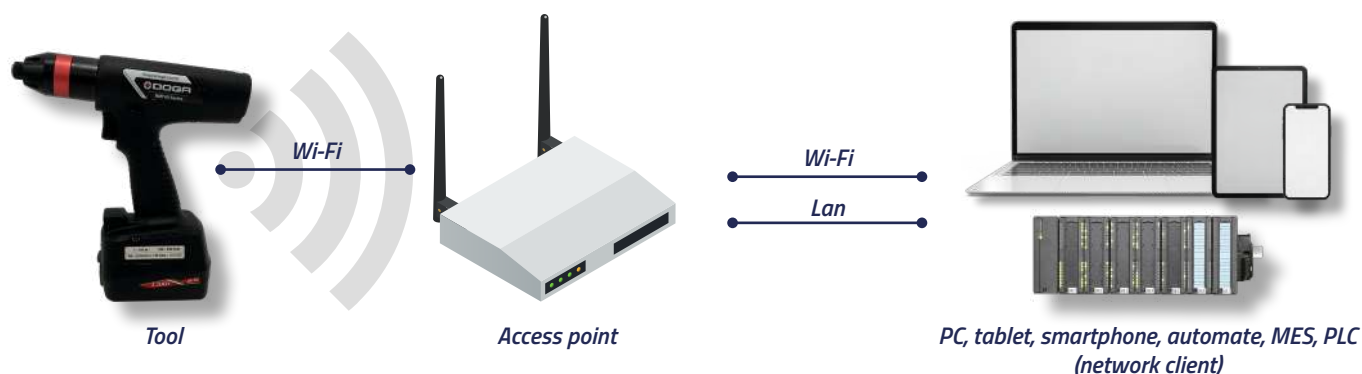
Interconnections

USB connection



- ▶ Initial network and parameter settings, data monitoring.
- ▶ Data download from the internal memory (max. 65 000).
- ▶ Easy screwdriver firmware update.

Wi-Fi connection to a PC, smartphone, tablet, automate or MES via an access point



- ▶ Parameter settings, data monitoring on PC.
- ▶ Free communication protocol (Modbus TCP, Open Protocol) for client application communication (PLC, PC,...) and DOGANet.
- ▶ Profinet, TCP / Ethernet IP protocol... (available as option).

Wi-fi connection to ParaMon-Pro X controller (optional)



- ▶ Connect up to 8 BM/BMT/BMT40/MD/MDT/MDT40 tools.
- ▶ Job Manager : product assembly quality control with tightening strategies, batch counting, assembly visualization, I/O logic management and operator assistance.
- ▶ Simple and user friendly sequence programming interface.
- ▶ 4 USB 2.0 ports - 1D and 2D barcode scanner (optional) - HDMI port for display extension - 16 digital inputs, 16 digital outputs.

WIRELESS TRANSDUCERIZED PISTOL SCREWDRIVERS

BMT40 Series

Ideal for horizontal screwing, our Li-ion wireless pistol-operated screwdrivers combine autonomy, multi-torque, multi-strategy, connectivity and optimal one-handed dexterity.

With their on-board color digital display, you can easily define the torque targets and view results directly on the tool.



0.5 to 85 Nm

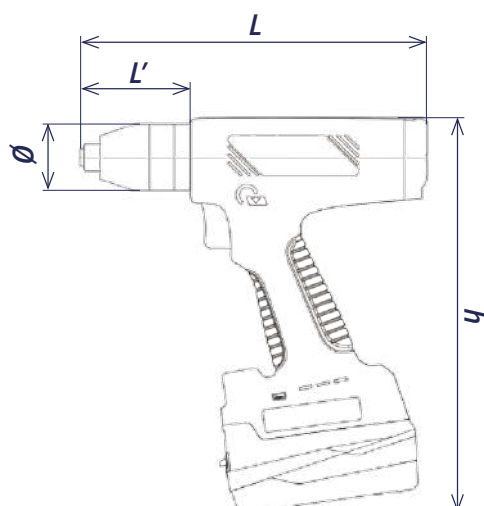
- ▶ LED beam to illuminate the screwdriving area
- ▶ Integrated 1D and 2D barcode scanner (optional)
- ▶ Built-in Wi-Fi
- ▶ Connected and compliant for communication, no need for box or additional accessories



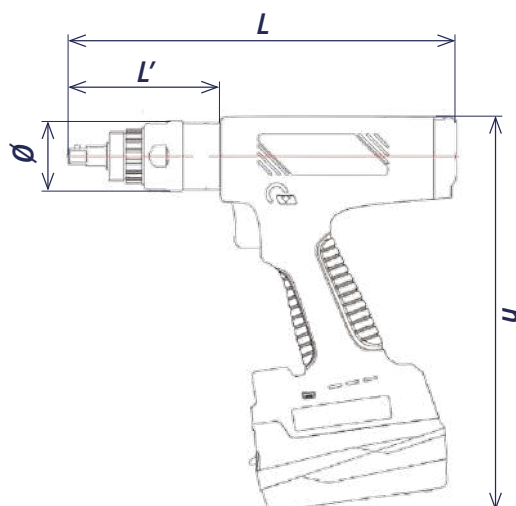
Dimensions



Model without splines



Model with splines



Built-in digital display





Pistol wireless DC Tools BMT40 serie - Standard models

Designation	Torque (min. Nm)	Torque (max. Nm)	Speed (rpm)	Weight (kg)	Dimensions	Drive	Code
					Ø (mm) L (mm) L' (mm) h (mm)		
BMT4004-A	0.5	6.0	100 ~ 1,400	1.1	41 213 68 243	Hex 1/4" ¹	P214652
BMT4006-A	1	9.0	100 ~ 920	1.1	41 213 68 243	Hex 1/4" ¹	P214654
BMT4011-A	2	17	50 ~ 490	1.2	41 228 83 243	Hex 1/4" ¹	P214656
BMT4016-Q 3/8	4	23.5	50 ~ 340	1.2	43 239 94 243	SQ 3/8"	P214658
BMT4020-Q 3/8	5	29	50 ~ 270	1.2	43 239 94 243	SQ 3/8"	P214660
BMT4024-Q 3/8 ²	6	35	50 ~ 225	1.2	43 239 94 243	SQ 3/8"	P214756
BMT4036-Q 3/8 ²	9	53	50 ~ 150	1.2	43 239 94 243	SQ 3/8"	P214758
BMT4045-Q 3/8 ²	12	60	30 ~ 120	1.4	43 254 109 243	SQ 3/8"	P214760
BMT4064-Q 3/8 ²	17	85	20 ~ 85	1.4	43 254 109 243	SQ 3/8"	P214762

**Weight without battery.*

Square drive with pin socket retainer; square drive with ball available on request for quick change socket.

¹ E6.3 quick-change bit holder.

² Screwdriver equipped with splines at the front for use with a reaction bar.

Supplied with a rectangular reaction plate with a 33.6 mm diameter.

Designation	Torque (min. Nm)	Torque (max. Nm)	Speed (rpm)	Weight (kg)	Dimensions	Drive	Code
					Ø (mm) L (mm) L' (mm) h (mm)		
BMT4004-A/S	0.5	6.0	100 ~ 1,400	1.1	212 213 68 243	Hex 1/4" ¹	P214744
BMT4006-A/S	1.0	9.0	100 ~ 920	1.1	212 213 68 243	Hex 1/4" ¹	P214746
BMT4011-A	2.0	17	50 ~ 490	1.2	227 228 83 243	Hex 1/4" ¹	P214748
BMT4011-Q/S 3/8	2.0	17	50 ~ 490	1.2	227 228 83 243	SQ 3/8"	P214750
BMT4016-Q/S 3/8	4.0	23.5	50 ~ 340	1.2	238 239 94 243	SQ 3/8"	P214752
BMT4020-Q/S 3/8	5.0	29	50 ~ 270	1.2	238 239 94 243	SQ 3/8"	P214754
BMT4024-Q/S 3/8 ²	4	35	50 ~ 225	1.215	238 239 94 243	SQ 3/8"	P214764
BMT4036-Q/S 3/8 ²	9	53	50 ~ 150	1.215	238 239 94 243	SQ 3/8"	P214766
BMT4045-Q/S 3/8 ²	12	60	30 ~ 120	1.48	253 259 109 243	SQ 3/8"	P214768
BMT4064-Q/S 3/8 ²	17	85	20 ~ 85	1.48	253 254 109 243	SQ 3/8"	P214778

**Weight without battery.*

Square drive with pin socket retainer; square drive with ball available on request for quick change socket.

¹ E6.3 quick-change bit holder.

² Screwdriver equipped with splines at the front for use with a reaction bar.

Supplied with a rectangular reaction plate with a 33.6 mm diameter.

WIRELESS TRANSDUCERIZED ANGLE HEAD SCREWDRIVERS

BMTH40 Series

Wireless transducerized angle head screwdrivers with 360° angle drive can be used independently in hard-to-reach areas.

Their excellent ergonomics and two-handed operation enable them to be used over extender torque ranges.

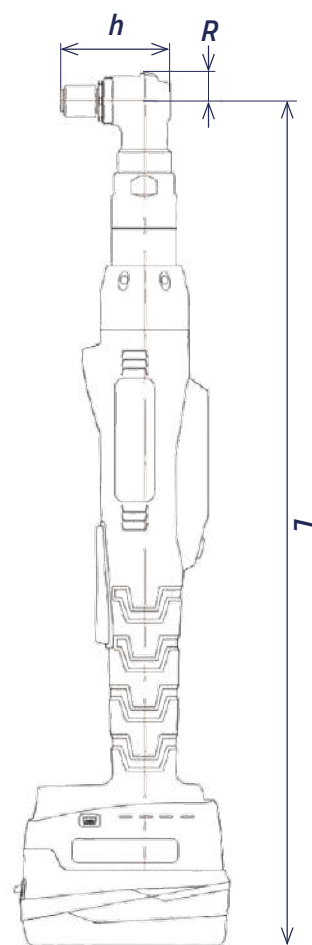
Thanks to their on-board digital display, you can easily define the torque targets and view results directly on the tool.

0.5 to 120 Nm

- ▶ LED beam to illuminate the screwdriving area
- ▶ Integrated 1D and 2D barcode scanner (optional)
- ▶ Built-in Wi-Fi
- ▶ Connected and compliant for communication, no need for box or additional accessories



Dimensions



Built-in digital display





Angle head wireless DC tools BMTH40 serie - Standard models

Designation	Torque (min. Nm)	Torque (max. Nm)	Speed (rpm)	Weight* (kg)	Dimensions			Drive	Code
					L (mm)	R (mm)	h (mm)		
BMTH4004-A	0.5	6	100 ~ 1,400	1.6	479	16.5	62	Hex 1/4" ¹	P214662
BMTH4004-Q 3/8	0.5	6	100 ~ 1,400	1.6	479	16.5	56	SQ 3/8"	P214680
BMTH4006-A	1	9	50 ~ 920	1.6	479	16.5	62	Hex 1/4" ¹	P214664
BMTH4006-Q 3/8	1	9	50 ~ 920	1.6	479	16.5	56	SQ 3/8"	P214686
BMTH4011-A	2	16	50 ~ 490	1.7	494	16.5	62	Hex 1/4" ¹	P214666
BMTH4011-Q 3/8	2	16	50 ~ 490	1.7	494	16.5	56	SQ 3/8"	P214692
BMTH4016-Q 3/8	4	23.5	50 ~ 340	1.7	494	16.5	56	SQ 3/8"	P214668
BMTH4020-Q 3/8	5	29	50 ~ 270	2	504	19.2	63	SQ 3/28'	P214670
BMTH4020-Q 1/2	5	29	50 ~ 270	2	504	19.2	67	SQ 1/2"	P214700
BMTH4024-Q 3/8	6	35	50 ~ 225	2.1	504	19.2	63	SQ 3/8"	P214672
BMTH4024-Q 1/2	6	35	50 ~ 225	2.1	504	19.2	67	SQ 1/2"	P214706
BMTH4030-Q 3/8	7.5	41	50 ~ 175	2.1	506	19.2	63	SQ 3/8"	P214676
BMTH4030-Q 1/2	7.5	41	50 ~ 175	2.1	506	19.2	67	SQ 1/2"	P214718
BMTH4036-Q 3/8	9	53	50 ~ 150	2	504	19.2	63	SQ 3/8"	P214674
BMTH4036-Q 1/2	9	53	50 ~ 150	2	504	19.2	67	SQ 1/2"	P214712
BMTH4045-Q 1/2	12	60	30 ~ 120	2.2	525	22	62	SQ 1/2"	P214722
BMTH4057-Q 1/2	15	74	25 ~ 90	2.2	525	22	62	SQ 1/2"	P214726
BMTH4067-Q 1/2	17.5	88.5	20 ~ 80	2.2	552	25.2	70	SQ 1/2"	P214736
BMTH40120-Q 1/2	33	120	5 ~ 45	2.7	564	25.2	70	SQ 1/2"	P214112

*Weight without battery.

Square drive with pin socket retainer; square drive with ball available on request for quick change socket.

¹ E6.3 quick-change bit holder.



Angle head wireless DC tools BMTH40 serie - Models with 1D and 2D barcode scanners

Designation	Torque (min. Nm)	Torque (max. Nm)	Speed (rpm)	Weight* (kg)	Dimensions			Drive	Code
					L (mm)	R (mm)	h (mm)		
BMTH4004-A/S	0.5	6	100 ~ 1,400	1.6	479	16.5	62	Hex 1/4" ¹	P214678
BMTH4004-Q/S 3/8	0.5	6	100 ~ 1,400	1.6	479	16.5	56	SQ 3/8"	P214682
BMTH4006-A/S	1	9	50 ~ 920	1.6	479	16.5	62	Hex 1/4" ¹	P214684
BMTH4006-Q/S 3/8	1	9	50 ~ 920	1.6	479	16.5	56	SQ 3/8"	P214688
BMTH4011-A/S	2	16	50 ~ 490	1.7	494	16.5	62	Hex 1/4" ¹	P214690
BMTH4011-Q/S 3/8	2	16	50 ~ 490	1.7	494	16.5	56	SQ 3/8"	P214694
BMTH4016-Q/S 3/8	4	23.5	50 ~ 340	1.7	494	16.5	56	SQ 3/8"	P214696
BMTH4020-Q/S 3/8	5	29	5 ~ 45	2	504	19.2	63	SQ 3/28'	P214698
BMTH4020-Q/S 1/2	5	29	5 ~ 45	2	504	19.2	67	SQ 1/2"	P214702
BMTH4024-Q/S 3/8	4	24	50 ~ 310	2.1	504	19.2	63	SQ 3/8"	P214704
BMTH4024-Q/S 1/2	5	29	5 ~ 45	2.1	504	19.2	67	SQ 1/2"	P214708
BMTH4030-Q/S 3/8	7.5	41	50 ~ 175	2.1	506	19.2	63	SQ 3/8"	P214716
BMTH4030-Q/S 1/2	7.5	41	50 ~ 175	2.1	506	19.2	67	SQ 1/2"	P214720
BMTH4036-Q/S 3/8	9	53	50 ~ 150	2	504	19.2	63	SQ 3/8"	P214710
BMTH4036-Q/S 1/2	9	53	50 ~ 150	2	504	19.2	67	SQ 1/2"	P214714
BMTH4045-Q/S 1/2	12	60	30 ~ 120	2.2	525	22	62	SQ 1/2"	P214724
BMTH4057-Q/S 1/2	15	74	25 ~ 90	2.2	525	22	62	SQ 1/2"	P214728
BMTH4067-Q/S 1/2	17.5	88.5	20 ~ 80	2.2	552	25.2	70	SQ 1/2"	P214738
BMTH40120-Q/S 1/2	33	120	5 ~ 45	2.7	564	25.2	70	SQ 1/2"	P214742

**Weight without battery.*

Square drive with pin socket retainer, square drive with ball available on request for quick change socket.

¹ E6.3 quick-change bit holder.

HIGH-TORQUE WIRELESS TRANSDUCERIZED PISTOL SCREWDRIVERS

BMT40 Series

Our pistol transducerized screwdrivers with torque multipliers feature a reaction arm that rotates 360°. Their design is compact and robust, for optimal weight and balance.

With their on-board color digital display, you can easily define the torque targets and view results directly on the tool.



Dimensions and technical specifications



High-torque pistol wireless DC Tools BMT40 serie - Standard models

Designation	Torque (Nm)		Speed (rpm)	Weight* (kg)	Dimensions (mm)							Drive	Code
	min.	max.			Ø	L	L'	h	L ₁	h ₁	h ₂		
BMT4006-BR2-190-Q 3/4	20	190	4 ~ 38	2.6	58	310	172	251	45	75	120	SQ 3/4"	P217987
BMT4011-BR2-350-Q 3/4	40	350	2 ~ 20.1	2.6	58	310	172	251	45	75	120	SQ 3/4"	P217990
BMT4004-BR3-500-Q 3/4	40	510	1 ~ 14.3	3.9	68	358	172	256	60	75	132	SQ 3/4"	P219994
BMT4006-BR3-750-Q 3/4	80	757	1 ~ 9.5	3.9	68	358	172	256	60	75	132	SQ 3/4"	P217995
BMT4011-BR3-1000-Q 3/4	115	1 000	0.7 ~ 7	3.9	68	358	172	256	60	75	132	SQ 3/4"	P217996

*Weight without battery and without reaction arm.

The BR2 standard arm weight is 0.52 kg and the BR3 standard arm weight is 0.74 kg.



High-torque pistol wireless DC tools BMT40 serie - Models with 1D and 2D barcode scanners

Designation	Torque (Nm)		Speed (rpm)	Weight* (kg)	Dimensions (mm)							Drive	Code
	min.	max.			Ø	L	L'	h	L ₁	h ₁	h ₂		
BMT4006-BR2-190-Q/S 3/4	20	190	4 ~ 38	3.2	58	310	172	251	45	75	120	SQ 3/4"	P218003
BMT4011-BR2-350-Q/S 3/4	40	350	2 ~ 20.1	3.2	58	310	172	251	45	75	120	SQ 3/4"	P218005
BMT4004-BR3-500-Q/S 3/4	40	510	1 ~ 14.3	4.6	68	358	172	256	60	75	132	SQ 3/4"	P218006
BMT4006-BR3-750-Q/S 3/4	80	757	1 ~ 9.5	4.6	68	358	172	256	60	75	132	SQ 3/4"	P218008
BMT4011-BR3-1000-Q/S 3/4	115	1 000	0.7 ~ 7	4.6	68	358	172	256	60	75	132	SQ 3/4"	P218010

*Weight without battery and without reaction arm.

The BR2 standard arm weight is 0.52 kg and the BR3 standard arm weight is 0.74 kg.

Built-in digital display



HIGH-TORQUE WIRELESS TRANSDUCERIZED ANGLE HEAD SCREWDRIVERS

BMTH40 Series



Wireless transducerized angle head screwdrivers with torque multiplier feature a reaction arm that rotates 360°. Their design is compact and robust, for optimal weight and balance.

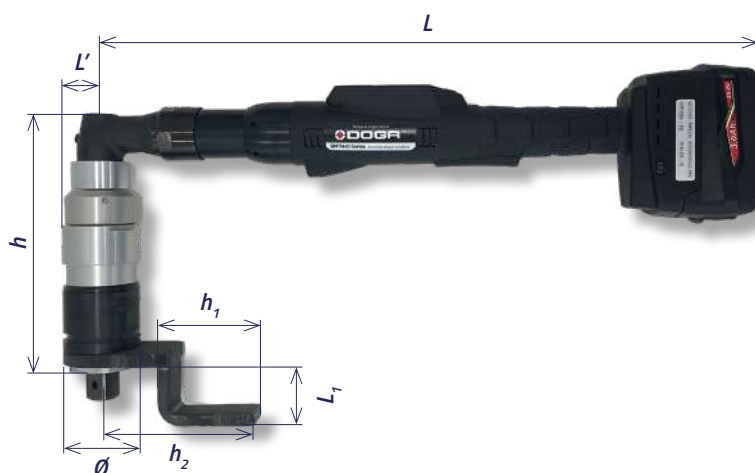
Thanks to their on-board digital display, you can easily define the torque targets and view results directly on the tool.

20 to 1,000 Nm

- ▶ LED beam to illuminate the screwdriving area
- ▶ Integrated 1D and 2D barcode scanner (optional)
- ▶ Built-in Wi-Fi
- ▶ Connected and compliant for communication, no need for box or additional accessories



Dimensions and technical specifications



High-torque angle head wireless DC tools BMTH40 serie - Standard models

Designation	Torque (Nm)		Speed (rpm)	Weight* (kg)	Dimensions (mm)							Drive	Code
	min.	max.			Ø	L	L'	h	L ₁	h ₁	h ₂		
BMTH4006-BR2-180-Q 3/4	20	180	4 ~ 36.9	3.1	58	479	29	194	45	75	120	SQ 3/4"	P217997
BMTH4011-BR2-320-Q 3/4	40	320	2 ~ 19.7	3.2	58	494	29	194	45	75	120	SQ 3/4"	P217998
BMTH4006-BR3-500-Q 3/4	57	514	1.4 ~ 12.9	3.2	68	479	34	240	60	75	132	SQ 3/4"	P217999
BMTH4006-BR3-700-Q 3/4	80	717	1 ~ 9.2	4.4	68	479	34	240	60	75	132	SQ 3/4"	P218000
BMTH4011-BR3-1000-Q 3/4	160	1,000	0.5 ~ 4.9	4.5	68	494	34	240	60	75	132	SQ 3/4"	P218001

*Weight without battery and without reaction arm.

The BR2 standard arm weight is 0.52 kg and the BR3 standard arm weight is 0.74 kg.



High-torque angle head wireless DC tools BMTH40 serie - Models with 1D and 2D barcode scanners

Designation	Torque (Nm)		Speed (rpm)	Weight* (kg)	Dimensions (mm)							Drive	Code
	min.	max.			Ø	L	L'	h	L ₁	h ₁	h ₂		
BMTH4006-BR2-180-Q/S 3/4	20	180	4 ~ 36.9	3.1	58	479	29	194	45	75	120	SQ 3/4"	P218011
BMTH4011-BR2-320-Q/S 3/4	40	320	2 ~ 19.7	3.2	58	494	29	194	45	75	120	SQ 3/4"	P218012
BMTH4006-BR3-500-Q/S 3/4	57	514	1.4 ~ 12.9	3.2	68	479	34	240	60	75	132	SQ 3/4"	P218067
BMTH4006-BR3-700-Q/S 3/4	80	717	1 ~ 9.2	4.4	68	479	34	240	60	75	132	SQ 3/4"	P218013
BMTH4011-BR3-1000-Q/S 3/4	160	1,000	0.5 ~ 4.9	4.5	68	494	34	240	60	75	132	SQ 3/4"	P218014

*Weight without battery and without reaction arm.

The BR2 standard arm weight is 0.52 kg and the BR3 standard arm weight is 0.74 kg.

Built-in digital display



ACCESSORIES

Battery



Designation	BL25201
Voltage	25.2 V
Number of cells	3.6 V x 7
Capacity	3 Ah nominal
Dimensions	118 x 80 x 56 mm
Weight	0.5 kg
Code	P100254

► Do not use the battery for any other tool or purpose.

Battery charger



► LED display information:

- **Charging** ● **Complete**
- **Blink « Battery overheat »**
- **Blink « Charging not possible »**
- **Blink « Ready »**

Designation	D25247A
Input	AC 220-240 V, 50 / 60 Hz, 1.1 A
Output	DC 18-25.2 V, 4.0 A
Fuse	250 VAC T3.15 A
Operating environment	0 ~ 40 / 15 ~ 80 % RH (without dew)
Full charging time	50 minutes
Safety class	Class II
Dimensions	210 x 114 x 72 mm
Weight	0.62 kg
Code	P100147

Protections



Designation	Code
BM protection silicone pistol	P113515
Angle head protection BMTH4004 to 40016	P136947
Angle head protection BMTH4020 to 4036	P137297

USB cable for programming



Designation	Code
Programming cable 1 m USB A to Mini-USB	P137300

Communication modules



Designation	Code
Communication module Modbus TCP to Profinet	P113165
Communication module Modbus TCP to Ethernet IP	P117308

Others protocols on request. Wi-Fi access point not included.

Rotating suspension rings



Designation	Code
BMTH4004 to 4016 rotating ring Ø 36.8 mm	P113217
BMTH4020/4024/4036 rotating ring Ø 39 mm	P136949
BMT rotating ring Ø 41 mm	P136950

Fixed suspension rings



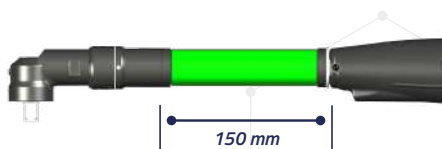
Designation	Code
BMT collar Ø 41 mm	P136928
BMT fixed suspension ring Ø 41 mm	P103909

Side handle



Designation	Code
BMT40 side handle Ø 41 mm	P104374

BMTH40120 extension



Designation	Code
150 mm screwdriver extension for torque reaction reduction Weight 0.84 kg	P214113
Extension inhouse installation	P100230

Supports



Designation	Code
Pistol holster BMT4004 to 4011	P100140
Pistol or angle head screwdriver support battery side	P101464

Crowfoots



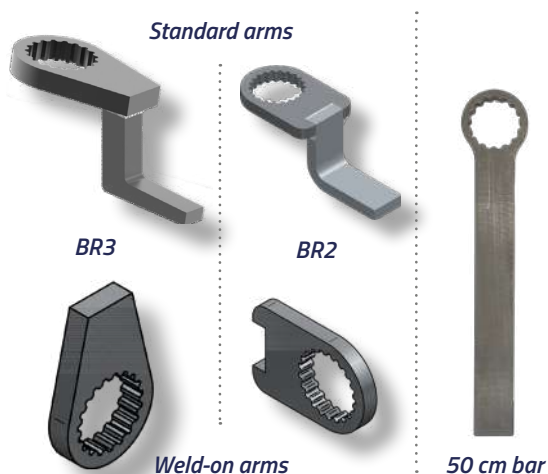
Designation	Code
Customized crowfoots	On request

Reaction bar range for BMT4024 to 4064



Designation	Code
Fastening nut left M30x1,5 Ø 33,6 mm	P218131
Reaction plaque 50x76,2 mm Ø 33,6 mm	P218133
150 mm reaction bar Ø 33,6 mm	P218135
200 mm reaction bar Ø 33,6 mm	P218137

Reaction bar range for high-torque BR2-BR3



Designation	Code
Standard reaction arm BR2	P219284
Standard reaction arm BR3	P219286
Weld-on reaction arm BR2	P219287
Weld-on reaction arm BR3	P219288
50 cm reaction bar BR2	P219215
50 cm reaction bar BR3	P219216
Other models	Consult us

Wireless bit tray BST-8W LCD Wi-Fi



Designation	Code
Bit tray BST-8W LCD	P112477
Wi-Fi access point	P111954
Bit holder Ø 18 mm	P112988
Bit holder Ø 15 mm	P137305
Bit holder Ø 10 mm	P112712
Bit holder Ø 7,5 mm	P101221
Bit holder pre-drilled Ø 3 mm	P104894
Bit holder to be machined	P100402

- ▶ Bit tray 8 positions for all cordless tools with built-in Wi-Fi and powered by battery (same as screwdrivers).
- ▶ Assignment program to a bit; selection can be made by the screwdriver or by the bit tray, depending on the desired operating mode.
- ▶ Simple setup with a button-operated display giving access to all settings.
- ▶ It doesn't require a controller; communication is direct between the bit tray and the screwdriver, through a Wi-Fi access point (not compatible with ParaMon Pro X).
- ▶ The tray uses intuitive sensors to detect bit presence.

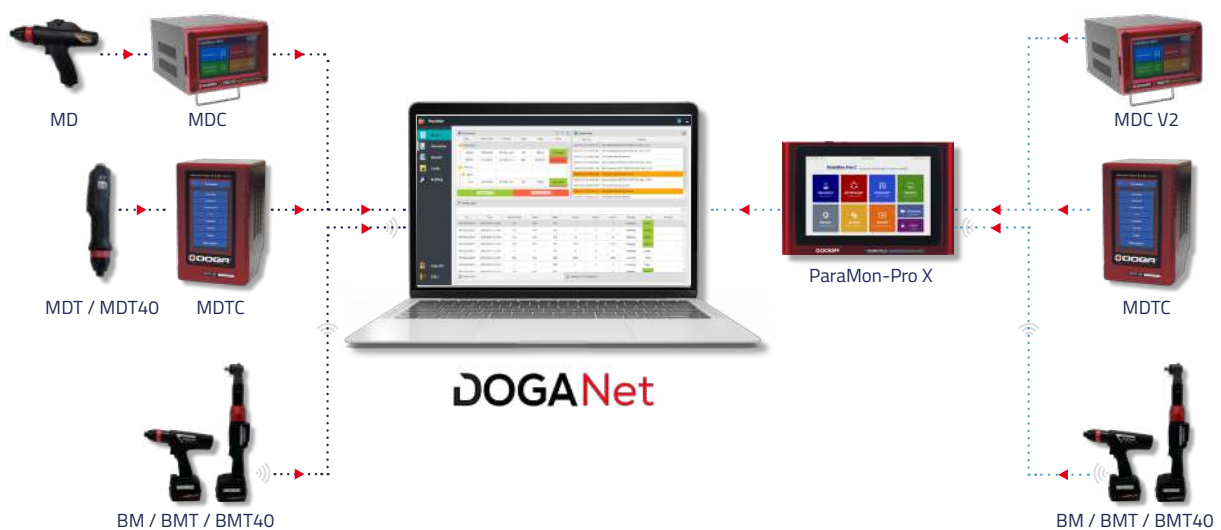
SOFTWARE FOR COLLECTING AND ANALYSING ASSEMBLY DATA

DOGANet

Features

DOGANet is a ready-to-use solution that meets your assembly process traceability needs in an industry 4.0. oriented environment.

Easy to install on a network-connected PC, this data collection, storage, control, and analysis software is perfectly suited for managing a networked tool park.



- ▶ Management of your tool park (up to 100 screwdrivers simultaneously).
- ▶ Traceability through automatic data collection and storage.
- ▶ Analysis of results and tightening curves.
- ▶ History consultation via the search engine and data filtering.

Specifications

Configuration	Required	Recommended
OS	Windows 8 / 10 / 11 - Windows Server 2012 / 2016 / 2022	
CPU	Intel® Core™ i5-6600	Intel® Core™ i7-9700
MEMORY	8 GB RAM	16 GB RAM
HDD / SSD	1 GB (required for installation only, without data backup storage)	
Data base	Postgresql	
Utility required	.NET Framework 4.8 - Npgsql 4.1.8 (included in the installation file)	

> Learn more about our software for collecting and analysing assembly data **DOGA**Net



PARAMON-PRO X INTERFACE CONTROLLER

Features

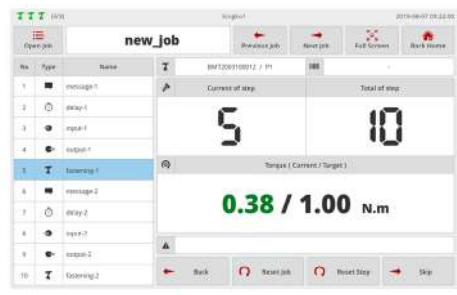


- ▶ Simultaneous connection of up to 8 tools, wireless or wired, BM / BMT / BMT40 / MD / MDT / MDT40 series, or external "I/O tool" equipment (torque wrench, leak test, electrical test, etc.). Management of parameters and programs for all connected screwdrivers.
- ▶ Management of settings and programs for all connected screwdrivers.
- ▶ Real-time data monitoring (visualization of curves and results).
- ▶ Creation of screwing Jobs (Job manager): product assembly quality control with tightening strategies, batch counting, assembly visualization, I/O logic management and operator assistance.
- ▶ Tool remote control.
- ▶ Automatic fastening data saving with files sorted by date or Job.
- ▶ Compatible with DOGANet.
- ▶ Positioning control associated with DOGA Posi-Control arms (only on the Paramon-Pro X+ Posi-Control version).

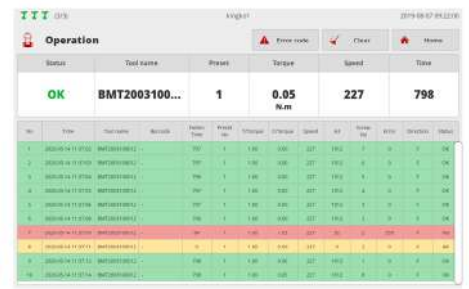
Specifications

Input power	AC220 - 240 V, 50/60 Hz, 0.35 A	
Dimensions	300 (L) x 196 (H) x 80 (P) - Wall mount bracket included	
Display	10.1" TFT LCD touch	
Communication	Modbus TCP, Open Protocol, DOGANet	
Connectivity	Ethernet, 4 x USB, barcodes reader, I/O (TOR inputs 16, TOR outputs 16), RS232	
Memory	Internal memory: 16 Gb + slot for micro SD card up to 32 Gb (micro SD card not included)	
Wi-Fi	USB 2.4 & 5 GHz dual-band Wi-Fi key (external)	
Display extension	HDMI	
Weight	3.54 kg	
Firware	V4.x.x. minimum or over	
Code	Process controller Paramon-Pro X	P102478
	Process controller Paramon-Pro X+ Posi-Control	P214774

Operation mode with Job versus multi-screwdrivers mode

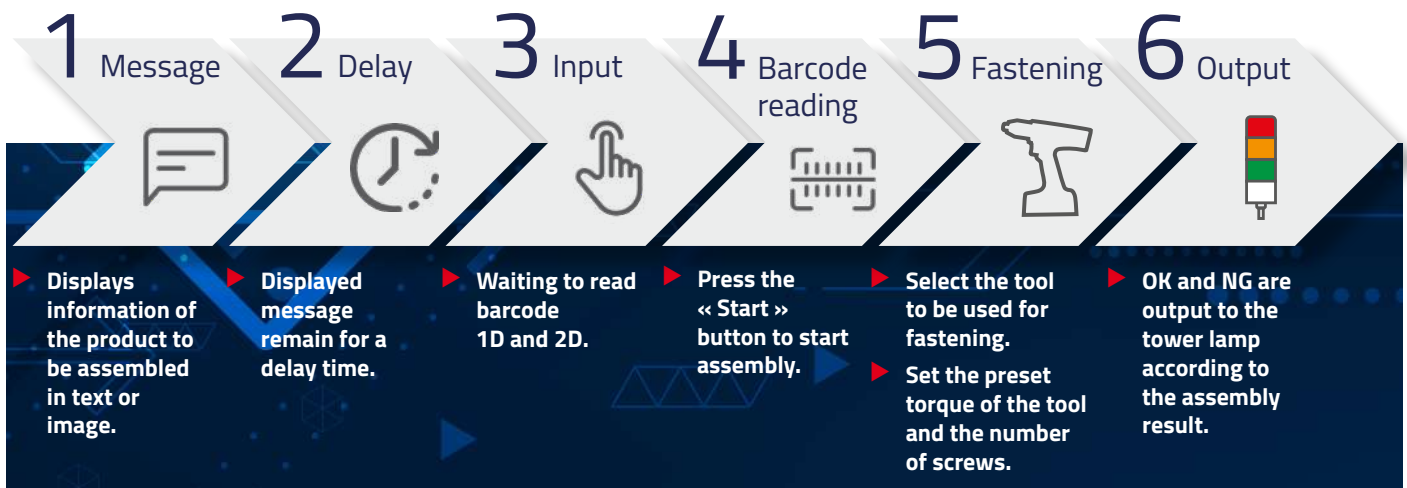


VS



Operation mode	Job Manager (sequencing mode with logical steps)	Multi-screwdrivers (simultaneous independant tightening on multiple stations)
Features	6 types of steps are available to form a Job: 1. Fastening or I/O tool 2. Message (text, photo, image, with or without validation) 3. User ID, from 1 to 6, or more (manual keyboard entry, barcode reading) 4. Input 5. Output 6. Temporisation - Photo management to produce digital synoptics. - For fastening step, interactive photo management with overlay of screwdriving points. - Up to 1,000 Jobs can be configured. - Job pause and resume modes. - Further tightening programs available. - In case of nonconforming step or Job, possibility to entry free comments or select from a drop-down menu. - Everything is automatically saved and sorted in daily files or by Job (tightening results, user IDs, comments, validation, etc.). Also compatible with DOGANet. - Positionning control of the screwdriver(s) is associated to DOGA Posi-Control arms, 1 or 2 depending on the model, free mode or sequential, only for ParaMon Pro+ Posi-Control.	- Don't support process control. - Real-time display of tightening results passed by each screwdriver. - Tightening results are automatically saved in daily files.
Screwdrivers or I/O tool	- The tool works only in the fastening step. - In the fastening step, only one tool can be assigned. - Two or more tools cannot work simultaneously.	- No restriction on the use of the tool. - All tools can work simultaneously. - Suitable for multiple operators and workstations environments.
Barcodes scanner	- To load the desired Job by scanning barcode. - Components traceability.	To select the preset torque on the tool.

Job example



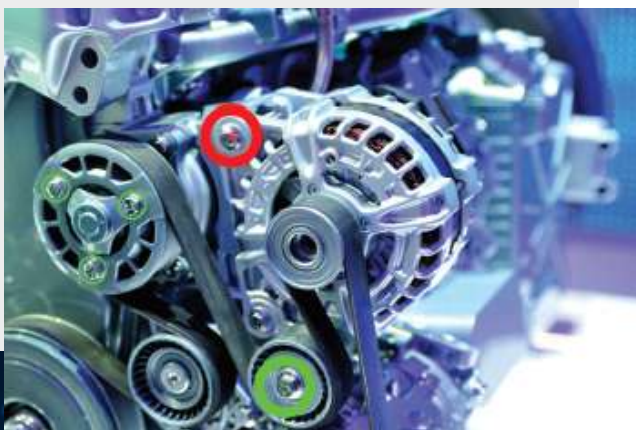
Assembly process visualization in a Job

Visualize the assembly procedure with just a few clicks



- ▶ From a picture of the work-piece.
- ▶ Set position of screw according to the fastening order.
- ▶ Up to 99 screws can be set per fastening step.
- ▶ Radius / width of the circle can be adjusted to fit the size of the screw.
- ▶ Color of the product and color of the circle overlap, you can change the color of the circle.

Below is the screen that is actually performing the Job.



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

RELATED PRODUCTS



Process management and monitoring

Monitor all production steps and achieve compliance with our IHM and bit socket trays.

- Sequencing and process monitoring interface - DPC Touch
- Bit socket trays
- Socket tray

> Learn more about our solutions for process management and monitoring



Sockets, bits et accessories

We have a wide range of bits, sockets and accessories for your screws and nuts, in all shapes and materials.

- Standard and special impact sockets
- Bits, special bits, bits holders and accessories
- Accessories

> Learn more about our range of sockets, bits and accessories



Crowfoots

Compatible with all tools on the market, our standard and special crowfoots are designed to the highest quality standards.

> Learn more about our range of crowfoots



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TECHNOLOGY

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