

SEQUENCING AND PROCESS MONITORING INTERFACE DPCTouch V2





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 specialised 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 equipments 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 services of tomorrow, we offer you new perspectives and prospects.



Performance

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





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



Reliability

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



ASSEMBLY TECHNOLOGY

As a world-class assembly technology player, we manufacture and market equipments 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 meet 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.



Contact us





SUMMARY

SEQUENCING AND PROCESS MONITORING INTERFACE

DPC Touch V2

Pages	
4	TECHNICAL FEATURES
5	BENEFITS
6	COMPACT « ALL IN ONE » INTERFACE
▶ 7	POSITIONING CONTROL
▶8	SEQUENCING AND PROCESS MONITORING
▶9	APPLICATIONS
▶ 10	REFERENCES AND ACCESSORIES
▶ 11	OUR SERVICES 1

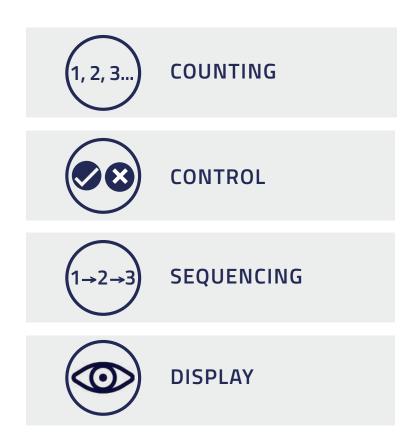
ZERO FAULT PROCESS GUARANTEED

To ensure quality production, it is necessary to be able to count, control, sequence and visualize the assembly steps.

Simple and powerful, our Posi-Control interface, the DPC Touch V2, has been developed by DOGA to meet all your application needs.

As a true conductor, it is the ideal tool for autonomous workstations or line production.





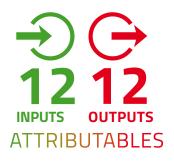
TECHNICAL FEATURES

Model	DOGA POSI CONTROL DPC TOUCH V2
Power supply	AC 100 - 240 V ~50-60 Hz
Dimension	202 x 128 x 39,6 mm (7,952 x 5,039 x 1,568 in)
Weight	0,5 kg / 2,20 lbs
LCD Screen	Touch screen 7"
Languages	
Storage	SD 8 Gb (events recording)

BENEFITS

Capacity







Tools, network and accessories compatibilities



- ➤ Suitable with air and electric tools with mechanical clutch, with all-or-nothing information, motor rotation and torque reached signals.
- ▶ Torque and angle screwdrivers with sensor, or current control.

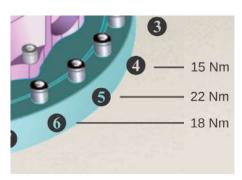






- Screw selection management (picking)
- ► Communication via discrete 24vdc I/O (PLC)
- ► Modbus TCP/IP field network
- ► Barcode reader (RS232 serial port)

Multi-strategy fastening



Ability to independently configure each fastening point and assign :

- a position
- a tolerance
- ▶ a picking zone
- ▶ a tool

Depending on the tool, an assembly program can automatically adapt :

- ► the angle
- ▶ the rotation speed
- ▶ the tightening torque
- ▶ the tightening time

COMPACT «ALL IN ONE» INTERFACE

- Easy to install in a workstation
- ► Simple and intuitive programming
- ▶ Able to replace a PLC, at a low price, for simple sequential automation



POSITIONING CONTROL

Improve your manufacturing quality with zero fault processes. A DPC Touch V2 connected to a torque reaction and positioning arm keeps your assembly processes under control.

Sequential or free mode

Screw fastening sequences can be restricted to a specicfic order or can be left free to the operator to decide.

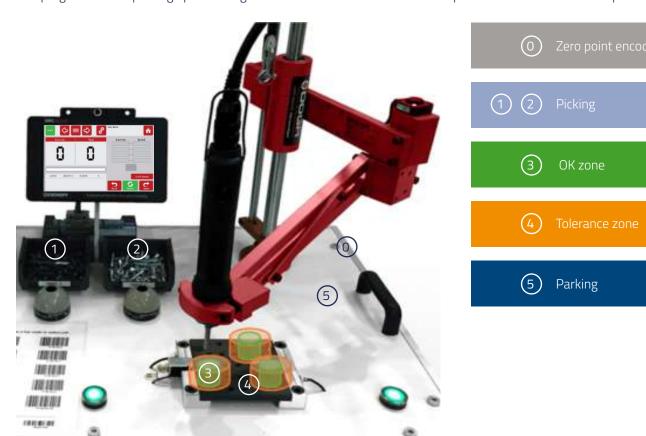
In both cases, the tool is disable when outside of the allowed fastening position. A picking zone can also be associated (2 zones programmable).



Positioning tolerances

3 ways to define the tolerance:

- Generally for all positions
- Manually position by position
- In teach mode with a simple movement of the torque reaction arm to the desired OK zone
- ▶ The definition of each fastening position is done directly on the work station.
- To simplify the replacement of an arm's encoder, the definition of a «zero point» allows for the preservation of all fastening positions.
- A programmable «parking» position signals with I/O that the tool is in a safe position clear from the work piece.

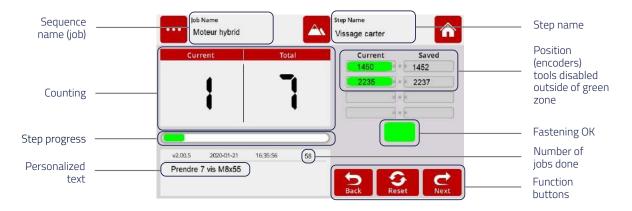


SEQUENCING AND PROCESS MONITORING

DPC Touch V2 guides the operator throughout the complete assembly process. Once a sequence is selected (job), the operator views the process step by step, screw by screw and is led by the instructions on the screen.

- ▶ Eliminate the risk of missed screws or incorrect torque values
- Different kinds of displays: operation, image, or evolving image with fastening positions
- Easy to use regardless of an operator's qualifications

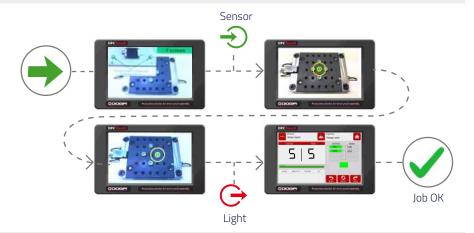
Process monitoring in operation mode



Process monitoring in customized mode

Illustration of fastening point via DPC Touch V2 directly on the touch screen.

- ▶ Dynamic display of instructions with color changes according to the position
- ► Image format: jpg, 800x480 pixels



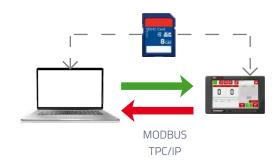
Fastening time control

Fastening time control (min/max) is possible for tools without angle sensors, but with motor run signals.

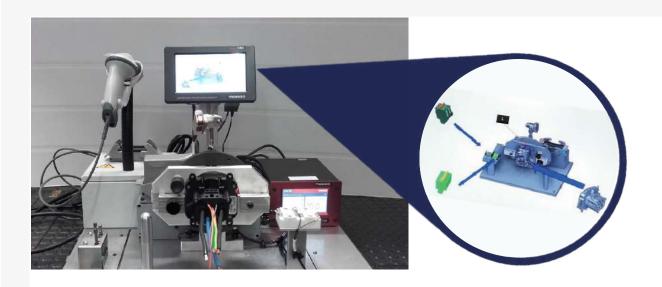


Offline and remotely programming

- Live Access to events in progress and management of settings directly from your computer via Modbus TCP/IP or « DPC Touch Remote » software.
- ▶ Offline creation and modification of the jobs. Recorded on SD card.
- ► Traceability guaranteed by complete monitoring via table on SD card: timestamping, fastening results, barcodes, etc.



APPLICATIONS



HOW TO BE SURE THAT ALL COMPONENTS HAVE BEEN CORRECTLY INSTALLED?

Assembly workstation for an electrical component intended to be part of an electrical vehicle load box.

- Operator guide
- ► Workpiece detection







SEQUENCE MONITORING WITH A DPC TOUCH V2

DPC TOUCH V2 can manage the complete workstation with different automation features.



> see the video

REFERENCES AND ACCESSORIES



Standard equipement

Designation	Code
DOGA POSI-CONTROL - DPC Touch V2	P100008

Spare parts (inclused with standard equipment)

Designation	Code
Fixing plate	P106842
Main socket adapter EU-UK	P166810
Main socket adapter EU-US	P108833
Cable I/O adapter, DB44 >> DB25 + DB9	P103165
SD card protector	P137479

Accessories

Designation	Code
Cable DB44, 3m/free wire (12 inputs/12 outputs)	P100096
Cable DPC Touch / DOGA GX, GY, DO, GA	P100434
Cable Y DPC Touch 3 m (DB44 M, DB25 M vers MDC/MDTC, DB 25 F vers PLC)	P100097
Cable BST/BS 5C to câble Y PLC DPC Touch 3 m	P103804
Cable DPC Touch / Stanley Alpha V (16 jobs)	P101445
Cable DPC Touch / DOGA HD, SD (DB9)	P108930
Cable DB9, 3 m / free wire (3 inputs/4 outputs)	P101507
Cable DB25, 3 m / free wire (12 inputs/9 outputs)	P100278
Pressure switch box for DPC Touch	P173786
I/O wiring box for DPC Touch, DB44, 3 m cable	P100755
Scanner kit type DS2208 for 1D and 2D barcode reading, holder, reading distance from 1 to 35 cm, optical sensor resolution 640 pixels, reading on paper or screen, IP 42, color black, 2 m USB straight cable	P181864
2 m DB19 RS232 straight cable	P181866
5,2 V power supply for RS232 cable DPC TOUCH RS232 adapter for scanner*	P181868 P101114
* The 4 codes have to be ordered simultaneously for a complete package.	

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 analyse 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 complte 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 around its trades:

- ► Technical & practical
- ► Audit & Consulting

RELATED PRODUCTS



Assembly tools

By combining the wide range of DOGA industrial screwdrivers and the choices we make together, we will meet your production and quality requirements.

- Torque and angle current control tools
- Torque and angle transducezized control tools STANLEY®
- Brushless electric tools

> Learn more about our Assembly tools



Torque reaction arms and tool positionning system

Our arms contribute to the improvement of your operator's comfort, the quality of your assemblies and your productivity.

- BA Linear / articulated / travellong torque reaction arms
- DMF Carbon fiber telescopic arms
- SLIDER Suspended torque reaction arms
- Special torque reaction arms

> Learn more about our torque reaction arms





Screw feeding

Reduce operator cycles times and maintain their comfort.

- DMA Auto advanced automatic screwfeeding system
- DMS Telescopic automatic screwfeeding system
- Semi-automatic screwfeeder with fixed / interchangeable rails



> Learn more about our screw feeding systems





(+33 1 30 66 41 41

78317 Maurepas Cedex - FRANCE © DOGA | DOC.**60356**.07/25

We constantly strive to improve our products. As a result, the dimensions and indications in this document may not always correspond to the latest production. By explicit agreement, our sales are subject to a reservation of title (the provisions of the French 05/12/1980 Act are therefore fully applicable).