

# DPC Touch V2

Sequencing and process  
monitoring interface

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## 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 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.



### Commitment

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.



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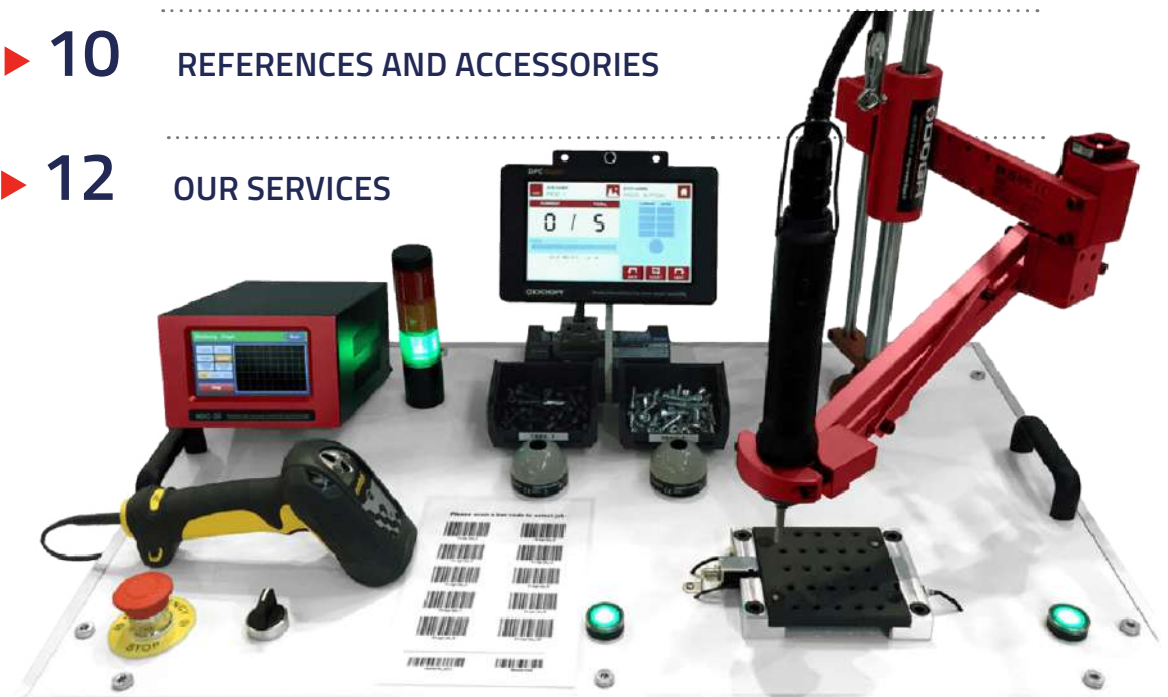
# SUMMARY

## DPC Touch V2

Sequencing and process monitoring interface

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# 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.

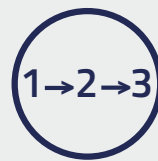
As a true conductor, it is the ideal tool for autonomous workstations or line production.



COUNTING



CONTROL



SEQUENCING



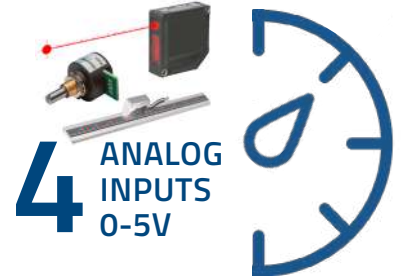
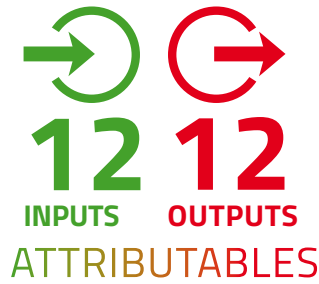
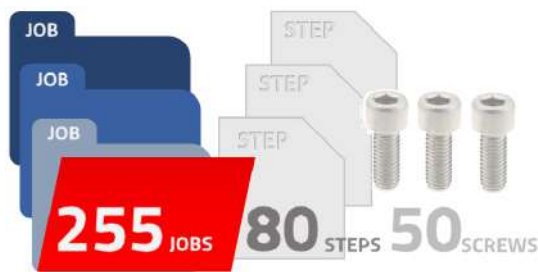
DISPLAY

## TECHNICAL FEATURES

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

# BENEFITS

## Capacity



## Tools, network and accessories compatibilities

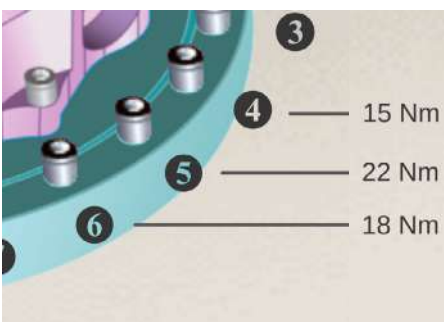


- ▶ Suitable with air and electric tools with mechanical clutch, with all-or-nothing information, motor rotation and torque reached signals.
- ▶ Torque and angle screwdrivers with sensor, or current control.



- ▶ 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 specific order or can be left free to the operator to decide. In both cases, the tool is disabled 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.



0 Zero point encoders

1 2 Picking

3 OK zone

4 Tolerance zone

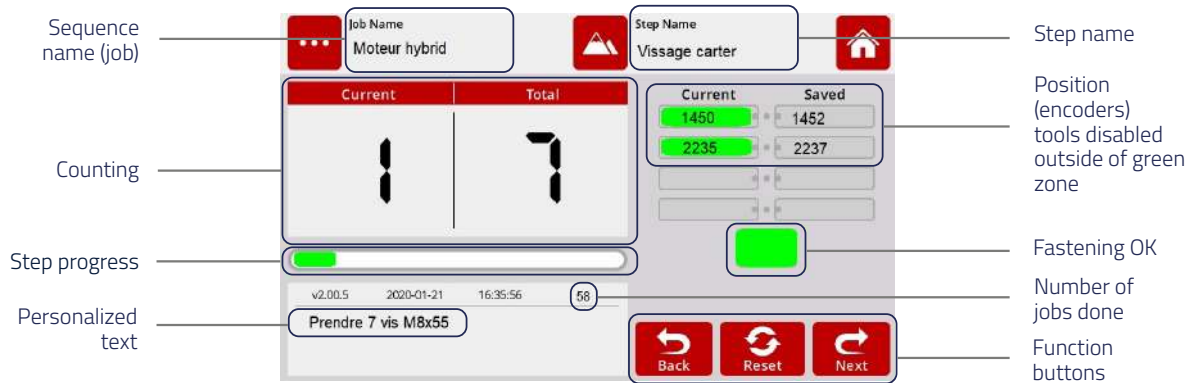
5 Parking

# 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

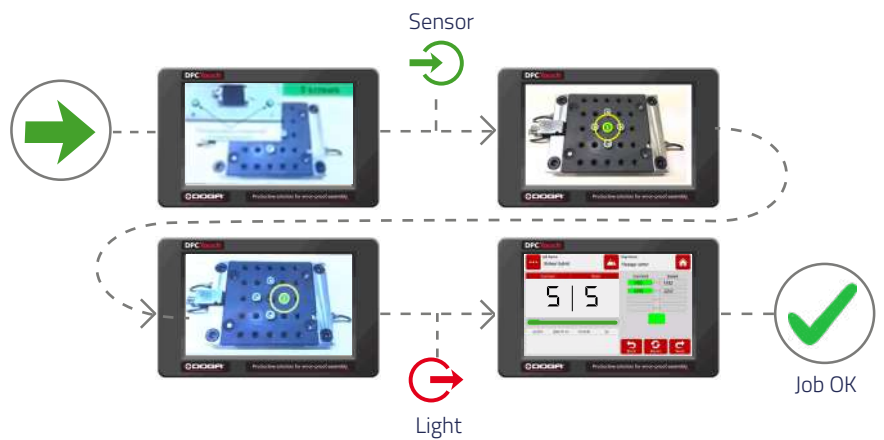
## Process monitoring in operation mode



## 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



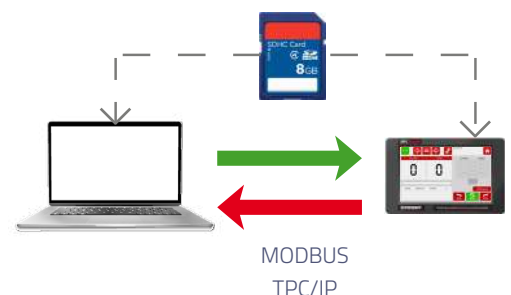
## Fastening time control

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

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## 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

Scan QR code to see the application note



## SEQUENCE MONITORING WITH A DPC TOUCH V2

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

Scan QR code to see the video



# REFERENCES AND ACCESSORIES



## STANDARD EQUIPEMENT

Designation	Code
DOGA POSI-CONTROL - DPC Touch V2	4-1290026

## Spare parts (included with standard equipment)

Designation	Code
Fixing plate	4-1290006
Main socket adapter EU-UK	4-1291024
Main socket adapter EU-US	4-1291023
Cable I/O adapter, DB44 >> DB25 + DB9	4-1290007
SD card protector	4-1290031

## Accessories

Designation	Code
Cable DPC Touch / DOGA GX, GY, DO, GA	4-1290008
Cable DPC Touch / DOGA HD, SD	4-1290013
Cable DPC Touch / DOGA MDC	4-1252006
Cable DPC Touch / Stanley Alpha V (16 jobs)	4-5241051
Cable DPC Touch / DOGA bit socket tray (BST)	4-1251213
Cable DB9, 3m/free wire (3 inputs/4 outputs)	4-5200542
Cable DB25, 3m/free wire (12 inputs/9 outputs)	4-5200770
Cable DB44, 3m/free wire (12 inputs/12 outputs)	4-1290009
I/O wiring box for DPC Touch, DB44, 3m cable	4-1290011
Pressure switch box for DPC Touch	4-5200771
Adapter for barcode reader, RS232	4-5234520
Cable LS2208 barcode reader, RS232	4-5000320

# 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 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 around its trades :

- ▶ Theoretical
- ▶ 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 transduced control tools - STANLEY®
- Brushless electric tools

> [Learn more about our Assembly tools](#)



## Torque reaction arms and tool positioning system

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

- BA - Linear / articulated / travelling 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](#)



Find all our ASSEMBLY TECHNOLOGY products on our website by scanning this QR code

