

# DPC Touch V2 / New Features Added



# Same housing, Improved components



# New functions



## Implementation of Modbus TCP/IP (Ethernet)



# New functions

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## Implementation of Modbus TCP/IP (Ethernet)

### Accessible information(Live):

- All the parameters in the setting menu
- Job #, step #, screw #, etc...
- Encoders position
- Tool info (F/R, lock, motor run, torque up...)

### Accessible information (Per event):

- Event # + timestamp
- Event type
- Job #, step #, screw #, etc...
- Encoders position when fastening was performed
- Barcodes

### Actions:

- Job selection
- Reset Job / Step
- Skip / Back
- Init (code 77)

# New functions



## Integrated images in fastening steps (set up)

The screenshot shows the 'New Fastening step' configuration screen. At the top, the 'STEP name' is 'New Fastening step' and the 'Type' is 'Fastening'. There are 'Save' and 'Cancel' buttons. Below this, the 'Position' is set to 'CURRENT 1' and 'SAVED 5'. A 'Non-sequential' toggle is turned on. The 'Position manager' table is as follows:

	Current	Saved	Tolerance, pts	
			Zone	OK
CH1	1	1	100	50
CH2	2	2	100	50
CH3	0	0	0	0
CH4	0	0	0	0

Below the table is a 'Smart tolerance' section with a 'Smart tolerance detection' label and a 'Start' button. At the bottom are navigation buttons: '<', 'Apply', 'Reset', 'Delete', 'Select image', and '>'. On the right side, there are 'Time control' settings (Min (ms), Tightening (ms), Max (ms)) and 'Driver setting' (Tightening job, Retightening job, Pick-up position, Driver).

# New functions



## Integrated images in fastening steps (operation)



# New functions



## New interface

NOM DU JOB: NOM D'ÉTAPE:

ACTUEL	TOTAL
0	5

ACTUEL MÉMORISÉ

	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Avancement

<input type="checkbox"/>																			
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

RETOUR RAZ SUIVANT

Programmation

No	NOM DU JOB	ETAPES	VIS
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Nouveau Copier Charger Editer Suppr.

Step Name

Current	Total
0	0

Current Saved

<input type="text"/>	<input type="text"/>

v2.00.5 2020-01-21 16:36:09 0

Back Reset Next

STEP Reset

JOB Manager

No	JOB Name	Steps	Screws
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New Copy Load Edit Delete

# New functions



## New interface

**Paramètres du contrôleur**

**GESTION INTERFACE**

**Choix outil**

- HDC/SDC
- GX/GY/DO/GA
- Outils DC
- Autre

Comptage vis croissant (off=descendant)  OFF

Comptage vis par étape (off=job)  OFF

Selection couple par sorties BCD  OFF

Selection job par entrées BCD  OFF

Numéro job par défaut

◀ Précédent Ecran 1 sur 4 Suivant ▶

**Controller settings**

**Management of interface**

**Operating**

**Tool selection**

- MDC
- GX/XY/DO/GA
- DC tools
- Other

**Encoders**

**Screws counting up** Down(...3, 2, 1)

**Input**

**Screws counting for step** Whole job

**Output**

**Torque selection by binary outputs** Direct

**Network**

**Job selection by binary inputs** Direct

**Other**

**Default job number (0 = not used)**

◀ Previous Screen 1 of 5 Next ▶

**Contrôleur setti**

**MANAGEMENT**

**Tool selection**

- HDC/SDC
- GX/GY
- O Other

Screws counting up (off = dow)  ON

Screw counting for step (off =)  ON

Torque selection by binary out  ON

Job selection by binary inputs  ON

Default job number (0 = not used)

◀ Previous Screen 1 of 4 Next ▶

**0 X**

7 8 9 . ESC

4 5 6 0 ↵

1 2 3 Enter

# New functions



## New interface

Nom d'étape:  TYPE MESSAGE Valider Annuler

Texte message:

Image message:  OFF

Veuillez utiliser des images avec résolution 800x480 pour le meilleur résultat.

STEP name  Type Message Save Cancel

Text

Line 1   
Line 2   
Line 3

Image

Browser

Image preview

Nom d'étape:  TYPE Sgnl sortie Valider Annuler

ENTRÉE	SIGNAL	<input type="checkbox"/>	<input type="checkbox"/>	ENTRÉE	SIGNAL	<input type="checkbox"/>	<input type="checkbox"/>
1	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	2	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	4	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
5	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	6	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
7	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	8	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
9	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	10	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
11	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	12	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>

Réglage d'impulsion

Durée de l'impulsion, ms

STEP name  Type Logical Out Save Cancel

Output	Function	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Output	Function	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1	Logical Out	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	Logical Out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Logical Out	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	Logical Out	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	Logical Out	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	Logical Out	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Logical Out	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	Logical Out	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Logical Out	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	Logical Out	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Logical Out	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12	Logical Out	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Impulse setting

Impulse signal duration (ms)

# New functions



## New interface

Nom d'étape:  TYPE VISSAGE

POSITION: Actuel  Mémorisé  Non séquentiel  OFF

Assistant position

	Actuel	Mémorisé	Tolérance, pts	
			ZONE	OK
Canal 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Canal 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Canal 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Canal 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Contrôle temps vissage

min, ms

Temps vissage, ms

max, ms

Paramètres outil

Job vissage

Job revissage

Position d'alim. vis  1  2

Outil (port RJ45)  1  2

Tolérance automatique

Détection tolérance automatique

STEP name  Type Fastening

Position CURRENT 1 SAVED 0 Non-sequential  OFF

Position manager

	Current	Saved	Tolerance, pts	
			Zone	OK
CH1	<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
CH2	<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
CH3	<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
CH4	<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Time control

Min (ms)

Tightening (ms)

Max (ms)

Driver setting

Tightening job

Retightening job

Pick-up position  1  2

Driver  1  2

Smart tolerance

Smart tolerance detection

# New functions

## Logs available



- One folder per year
  - One sub folder per month
    - One .csv file per day

No	Time	Job no	Step no	Step type	Action type	Action result	Error	Job Total screw	Job Remain screw	Step Total screw	Step Remain screw	Preset	Barcode
4	12:33:22	1	1	None	Job Select	0	0	8	8	0	0	0	
5	12:33:22	1	2	Fastening	Step Select	5	0	8	8	5	5	0	
6	12:33:26	1	2	Fastening	Fasten	1	0	8	7	5	4	1	
7	12:33:27	1	2	Fastening	Fasten	1	0	8	6	5	3	2	
8	12:33:29	1	2	Fastening	Fasten	1	0	8	5	5	2	3	
9	12:33:31	1	2	Fastening	Fasten	1	0	8	4	5	1	4	
10	12:33:39	1	2	Fastening	Fasten	1	0	8	3	5	0	5	
11	12:33:39	1	3	Fastening	Step Select	3	0	8	3	3	3	0	
12	12:33:46	1	3	Fastening	Fasten	1	0	8	2	3	2	8	
13	12:33:48	1	3	Fastening	Fasten	1	0	8	1	3	1	12	
14	12:33:49	1	3	Fastening	Fasten	1	0	8	0	3	0	15	
15	12:33:49	1	4	Delay	Step Select	3000	0	8	0	0	0	0	
16	12:33:52	1	4	Delay	Job End	1	0	8	0	0	0	0	

# New functions

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- **Rest position**
  - Set position in the settings
  - Assign the rest position to an output
    - Encoders turn blue and output is activated when rest position is reached
- v Designed to make sure the tool is not interfering when the product is moving along the production line
- **Automatic restart of the job**
  - Activated or not
    - If not activated, the next job needs to be selected manually, via I/O or barcode scanning

# New functions

## Blinking outputs

STEP name  Type **Logical Out** Save Cancel

Output	Function	✓	⏏	⏏
1	Logical Out	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Logical Out	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Output	Function	✓	⏏	⏏
2	Logical Out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Logical Out	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Impulse setting

Impulse signal duration (ms)

## New confirmation functions in the delay step

STEP name  Type **Delay** Save Cancel

Delay time  ms  Time

Barcode   Barcode

Confirmation **User Confirmation Message Box**  Confirmation

# New functions



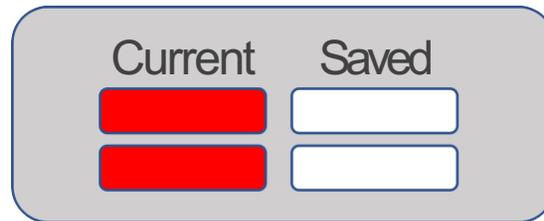
Barcode can be manually typed



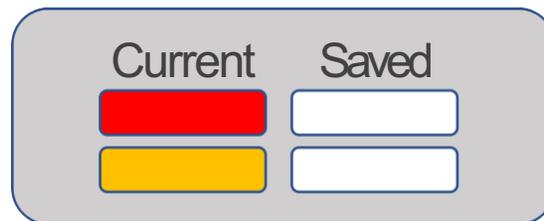
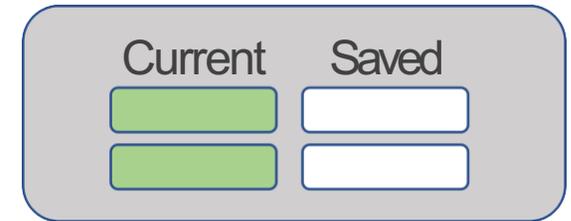
# New functions

## Encoders colors:

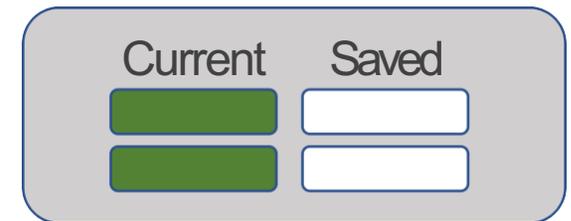
Out of  
The area



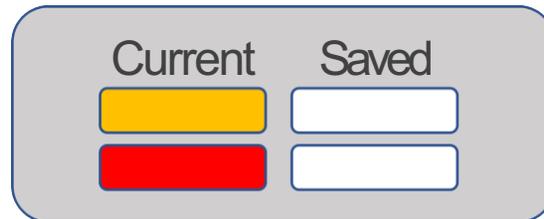
Position OK



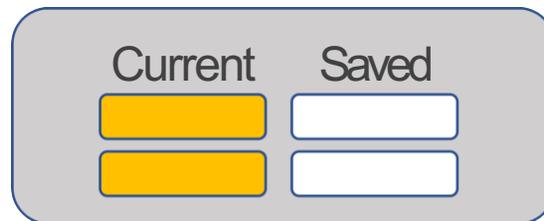
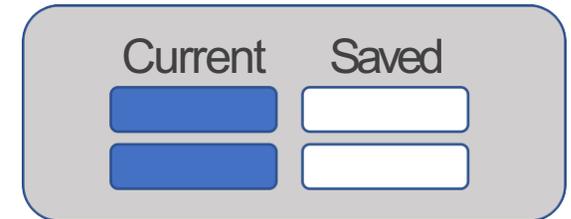
Position already  
done  
( non sequential)



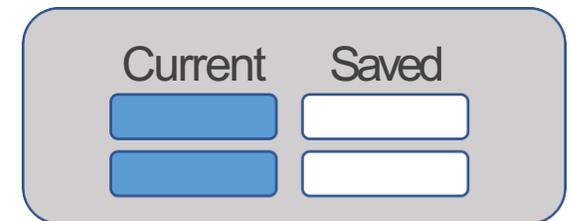
Next to  
the area



Rest position

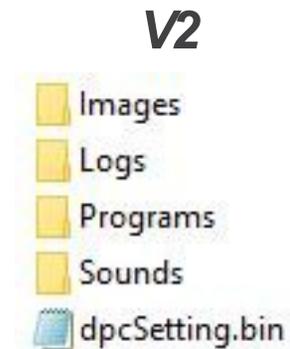
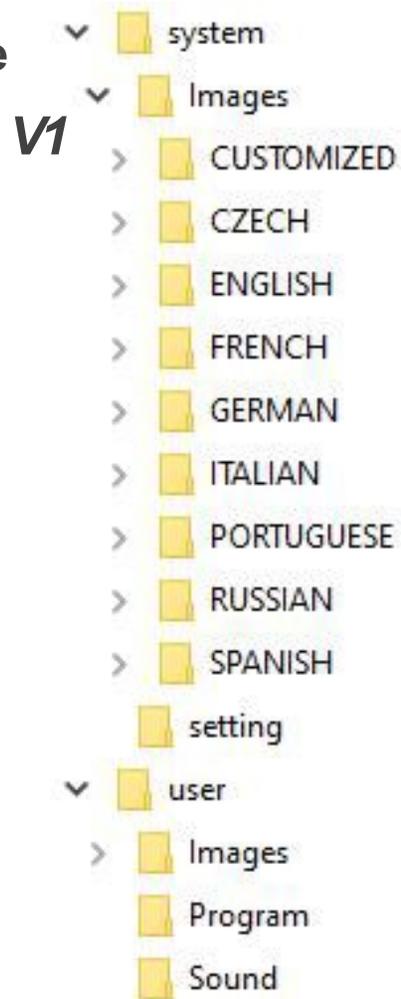


Picking position



# Compatibility V1 / V2

## SDcard structure



Impossible to swap SDcards

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# THANK YOU!

[www.mountztorque.com](http://www.mountztorque.com)