

# 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 window. 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' section shows 'CURRENT' as 1 and 'SAVED' as 5. A 'Non-sequential' toggle switch is on the right. The 'Position manager' table lists channels CH1 through CH4 with their current and saved values, and tolerance settings. The 'Time control' section has input fields for Min, Tightening, and Max times in milliseconds. The 'Driver setting' section includes fields for Tightening and Retightening jobs, and radio buttons for Pick-up position and Driver selection. At the bottom, there are navigation buttons: '<', 'Apply', 'Reset', 'Delete', 'Select image', and '>'. A 'Smart tolerance detection' section with a 'Start' button is also present.

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

Smart tolerance detection:

# New functions



## Integrated images in fastening steps (operation)



# New functions



## New interface

... NOM DU JOB: NOM D'ÉTAPE:

ACTUEL	TOTAL
0	5

Avancement

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ACTUEL	MÉMORISÉ

RETOUR RAZ SUIVANT

**Programmation**

N°	NOM DU JOB	ETAPES	VIS

^ v Nouveau Copier Charger Editer Supr.

Step Name

Current	Total
0	0

Current Saved

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

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

STEP Reset

Back Reset Next

**JOB Manager**

No	JOB Name	Steps	Screws

^ v New Copy Load Edit Delete

# New functions



## New interface

**Paramètres du contrôleur**

**GESTION INTERFACE**

**OPÉRATIONS**

**CODEURS**

**ENTRÉES**

**SORTIES**

**RÉSEAU**

**AUTRES**

**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**

**Encoders**

**Input**

**Output**

**Network**

**Other**

**Tool selection**

☒ MDC ☐ GX/XY/DO/GA ☐ DC tools ☐ Other

Screws counting up Down(...3, 2, 1) ☐

Screws counting for step Whole job ☐

Torque selection by binary outputs Direct ☐

Job selection by binary inputs Direct ☐

Default job number (0 = not used)

Previous Screen 1 of 5 Next

**Controller setti**

**MANAGEMENT**

**OPERATING**

**ENCODERS**

**INPUTS**

**OUTPUTS**

**NETWORK**

**OTHER**

**Tool selection**

☐ HDC/SDC ☐ GX/GY ☐ 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:  OFF

Image message:  OFF

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

Nom d'étape:  TYPE Sgnl sortie Valider Annuler

ENTRÉE	SIGNAL			ENTRÉE	SIGNAL		
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 Message Save Cancel

Text 1

Line 1  12345

Line 2  asdf

Line 3  67890

Image 0

Browser

Image preview

STEP name  Type Logical Out Save Cancel

Output	Function	✓			Output	Function	✓		
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)  0

# New functions



## New interface

Nom d'étape:  TYPE VISSAGE Valider Annuler

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"/>

Tolérance automatique  
Détection tolérance automatique Démarrer

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

< RAZ Appliquer >

STEP name  Type Fastening Save Cancel

Position CURRENT 1 SAVED 0 Non-sequential ☐ 0

Position manager

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

Smart tolerance  
Smart tolerance detection Start

Time control  
Min (ms)   
Tightening (ms)   
Max (ms)

Driver setting  
Tightening job   
Retightening job   
Pick-up position ☐ 1 ☐ 2  
Driver ☒ 1 ☐ 2

< Apply Reset Delete Select image >

# 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

Current	Saved
Red	White
Red	White

Position OK

Current	Saved
Green	White
Green	White

Position already  
done  
( non sequential)

Current	Saved
Red	White
Yellow	White

Current	Saved
Dark Green	White
Dark Green	White

Next to  
the area

Rest position

Current	Saved
Yellow	White
Red	White

Current	Saved
Blue	White
Blue	White

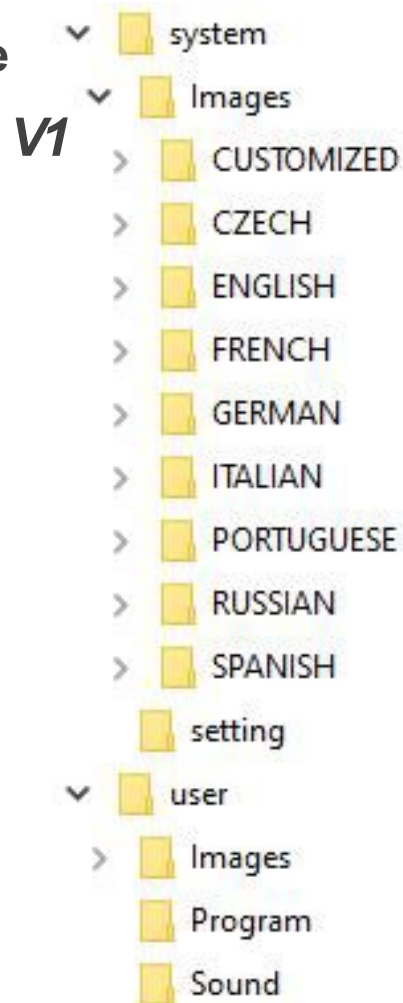
Picking position

Current	Saved
Yellow	White
Yellow	White

Current	Saved
Blue	White
Blue	White

## Compatibility V1 / V2

### SDcard structure



Impossible to swap SDcards

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# THANK YOU!

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