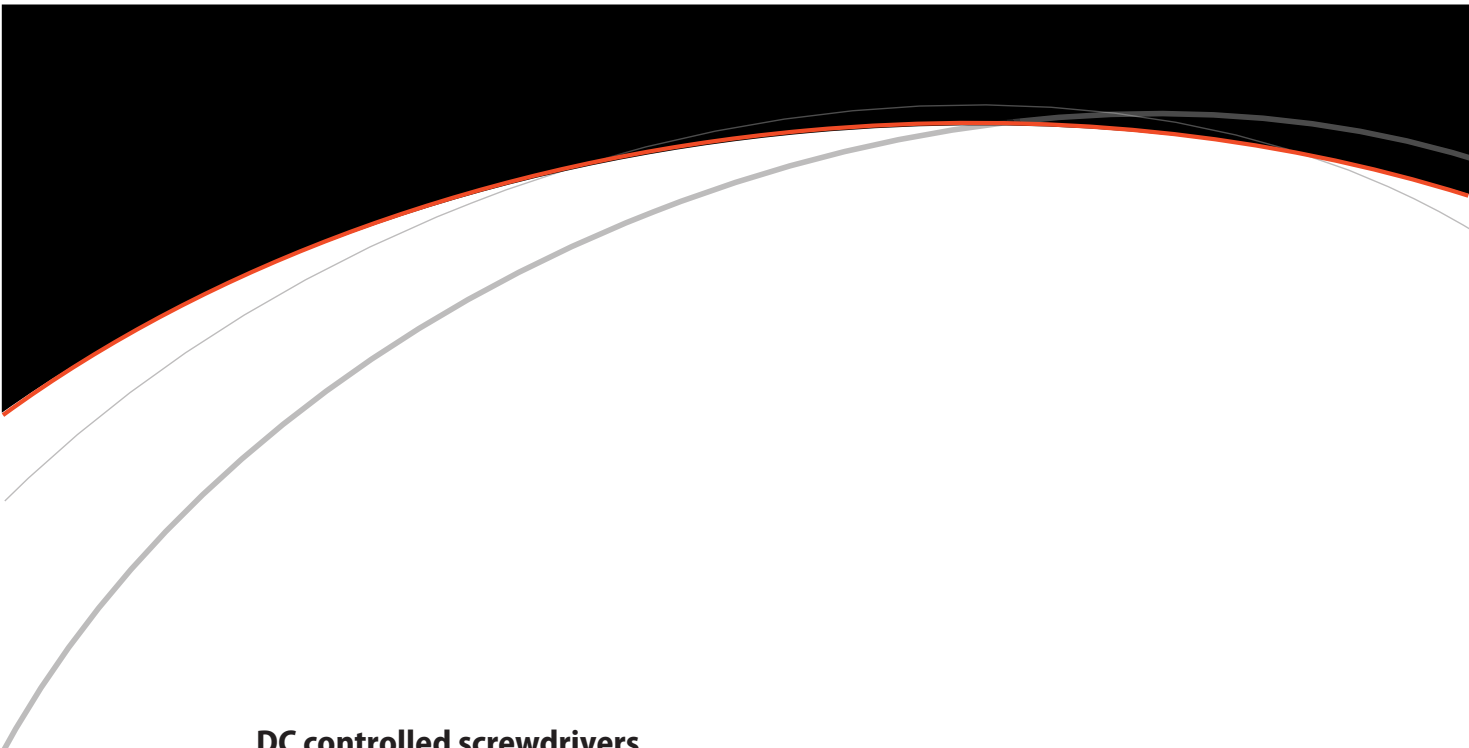




# Doga Electric Screwdrivers

distributed by SM-Technik,  
[www.sm-technik.de](http://www.sm-technik.de)





### **DC controlled screwdrivers**

30 Volts Micro torque Hybrid series – 0,03 to 0,6 Nm.....	p.5
40 Volts Hybrid series – 0,5 to 4,4 Nm.....	p.5
40 & 30 volts Fixtured spindle Hybrid series – 0,03 to 4,4 Nm.....	p.5
HDC controllers – HDC 40 i – HDC 30 i.....	p.6
Accessories.....	p.6

### **Brushless electric screwdrivers**

Micro Torque GX series - 0,03 to 0,5 Nm.....	p.9
30 volts GX series – 0,09 to 1,2 Nm.....	p.9
40 volts GX series – 0,3 to 4,41 Nm.....	p.9
Fixtured spindle GXA series – 0,03 to 4,4 Nm.....	p.9
Controllers : XS 40 D – XS 40 D FA.....	p.11
Accessories.....	p.12

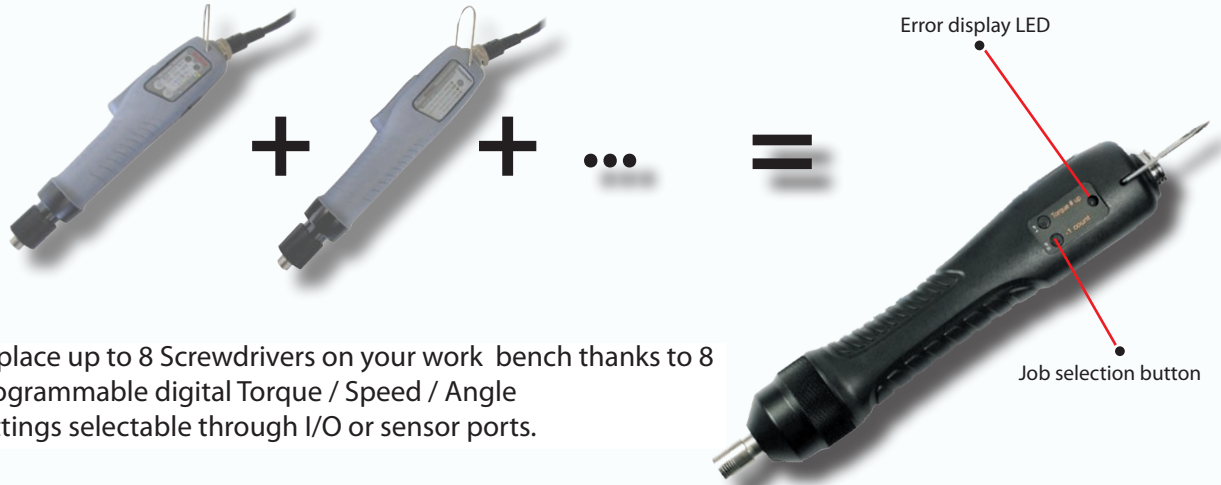
### **Low voltage Electric screwdrivers**

GA series – 0,08 to 1,18 Nm.....	p.13
DO series – 0,2 to 4,41 Nm.....	p.14
Accessories.....	p.14
Controllers : XT-30 D and XS-38 D.....	p.15

# DC Controlled screwdrivers

## Torque Control System

A new way to optimize your tightening process



- ✓ Replace up to 8 Screwdrivers on your work bench thanks to 8 programmable digital Torque / Speed / Angle settings selectable through I/O or sensor ports.
- ✓ Set up to 8 counting programs with up to 20 screws each with different torque targets.

Best choice for Cell line Manufacturing



Easy PC Communication through USB Port



Screw counter inside (detect cross thread, screw omission...)



Tightening process management through 25P I/O port or sensor port



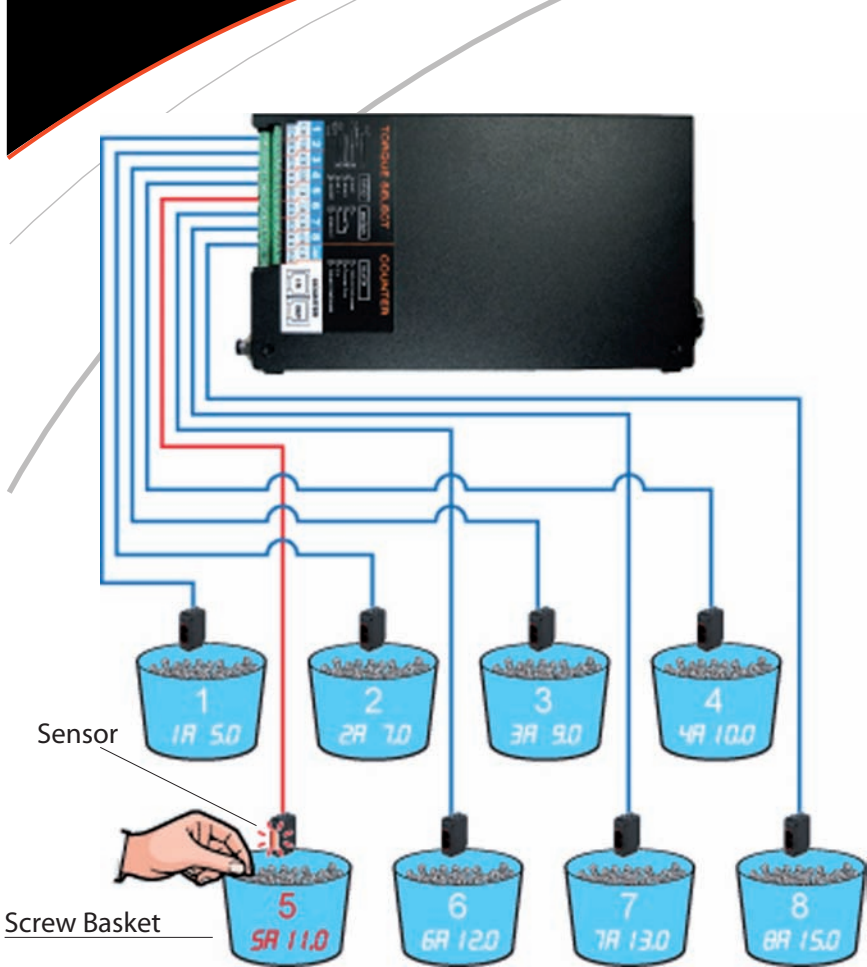
Built-in 32 Bit microprocessor



Data monitoring & Quality Control



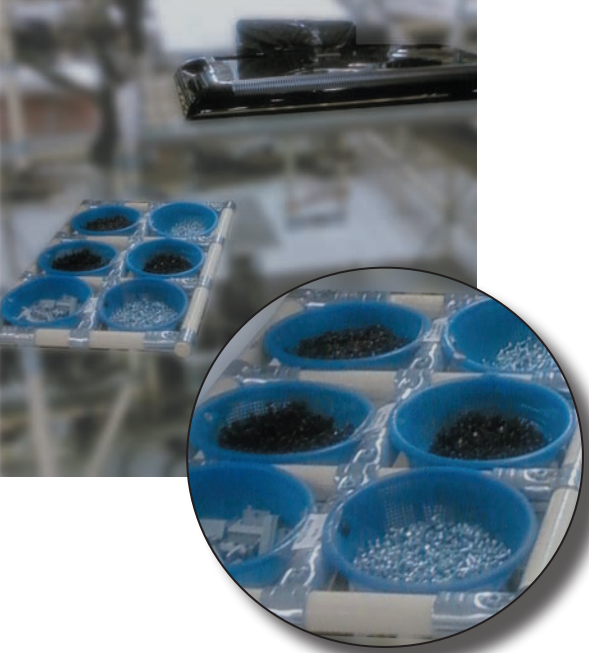
# Example of job selection through sensors



Job n° 5  
 Work Mode  
 Torque : 11 kgf.cm  
 (Default setting is torque (kgf.cm))

- Until 8 jobs setup (≠Torque / Speed / Angle).
- Each job n° is simply selected by the sensor when the operator picks up the screw or by the PLC thanks to the 25 I/O ports.
- 8 counting programs with torque sequencing.

Example

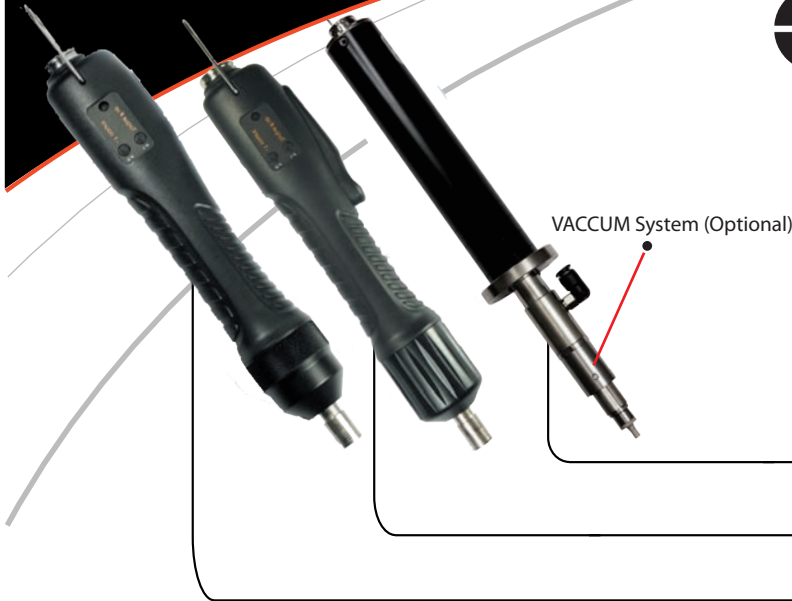


**8** different jobs with one Hybrid screw driver.

Jobs may be selected as well through PLC, socket tray...

# DC Controlled screwdrivers

0,03 to 4,4 Nm



- Brushless DC motor or (service free)
- ESD free by body grounding
- Torque repeatability ~ 3%
- Inside memory chip for tool data and recognition
- Built - in air clutch

**HDA045E**

**HD220A**

**HD150PA**

## 30 Volts Micro Torque hybrid screwdrivers

0,03 - 0,6 Nm

Model	Torque Range (Nm)	Speed rotation (Tr/min)	Output	Starting system	Weight (Gr)	Code
HD012E	0,03 - 0,12	400 to 1000	Half moon/shank drive 4 mm	Lever	220	1042215
HD025E	0,08 - 0,25	-	Half moon/shank drive 4 mm	-	-	1042216
HD035E	0,10 - 0,35	-	Half moon/shank drive 4 mm	-	-	1042217
HD080E	0,25 - 0,8	600 to 1100	Half moon/shank drive 4 mm	-	280	1042218

## 30 Volts Micro Torque hybrid spindles

0,03 - 0,6 Nm

Model	Torque Range (Nm)	Speed rotation (Tr/min)	Output	Starting system	Weight (Gr)	Code
HDA012E	0,03 - 0,12	400 to 1100	Half moon/shank drive 4 mm	Remote	220	1042219
HDA025E	0,08 - 0,25	-	Half moon/shank drive 4 mm	-	-	1042220
HDA035E	0,10 - 0,35	-	Half moon/shank drive 4 mm	-	-	1042221
HDA045E	0,15 - 0,45	400 to 750	Half moon/shank drive 4 mm	-	-	1042222
HDA060E	0,15 - 0,60	500 to 1000	Half moon/shank drive 4 mm	-	280	1042223

## 40 Volts hybrid screwdrivers

0,5 - 4,4 Nm

Model	Torque Range (Nm)	Speed rotation (Tr/min)	Output	Starting system	Weight (Gr)	Code
HD150A	0,5 - 1,5	500 to 1800	Hex 1/4"	Lever	440	1042200
HD220A	0,7 - 2,2	400 to 1250	-	-	-	1042201
HD450A	1,5 - 4,4	300 to 600	-	-	510	1042208
HD150PA	0,5 - 1,5	500 to 1800	-	Push	440	1042203
HD220PA	0,7 - 2,2	400 to 1250	-	-	-	1042204
HD450PA	1,5 - 4,4	300 to 600	-	-	510	1042209

## 40 Volts hybrid spindles

0,5 - 4,4 Nm

Model	Torque Range (Nm)	Speed rotation (Tr/min)	Output	Starting system	Weight (Gr)	Code
HDA150A	0,5 - 1,5	500 to 1800	Hex 1/4"	Remote	440	1042224
HDA220A	0,7 - 2,2	400 to 1250	-	-	-	1042225
HDA450A	1,5 - 4,4	300 to 600	-	-	510	1042226

Standard packing : screwdriver, 14P-3M cable, Test bits.

# Controller



- Com port usage selector
- USB Port for PC communication or firmware upgrade
- 25P I/O interface
- RS-232C Port
- Air pressure inlet (out dia 4 mm)

## HDC-40i

- Delivered with USB Com cable, installation CD, air filter, air hose.

No	ITEM		SPECIFICATION	
1	Model		HDC-40i - <b>1042211</b>	HDC-30i - <b>1042230</b>
2	Input	Electric	AC120VC or AC220V, 50~60 Hz	AC120VC or AC220V, 50~60 Hz
3		Air pressure	Min 5 bar/Max 6,5 bar	Min 5 bar/Max 6,5 bar
4	Output	Electric	DC40V, 3A	DC30V,2A
5	Fuse		AC250V, 10A	
6	Dimension/Weight		97(w) 222(d) 129(h) mm / 2,1kg	87(w) 121(d) 129(h) mm / 1,6kg
7	Job parameters		Torque, Speed, Angle, Soft start, Torque tuning in 8 preset numbers	
8	Job selection		1) Front panel button 2) 25P I/O interface 3) F1 button on the driver	
9	Torque Calibration		From - 20% to +20%	
10	Auto detection of the connected Driver		Auto detection of the offset value from the EEP-rom inside the driver	
11	Error display		Error display by code no. in system, communication & pattern error group	
12	Fastening quality control		OK/NG monitoring of screw fastening by preset pattern of angles, times	
13	Screw Counter		Save the total screw number, and monitor the number of OK fastenings.	
14	Monitoring and parameter		Monitoring and parameter settings on PC program (MS Windows base)	
15	Communication port		USB or RS232C (option)	
16	Built in counter program		8 counting programs, 20 screws per program. Auto-sequencing of fastening strategies.	

## Accessories

Standard :



Driver Cable 14p 3M

**Code : 1042205**  
(delivered with the tool)



USB Com Cable

**Code : 1042206**  
(delivered with the controller)

Option :

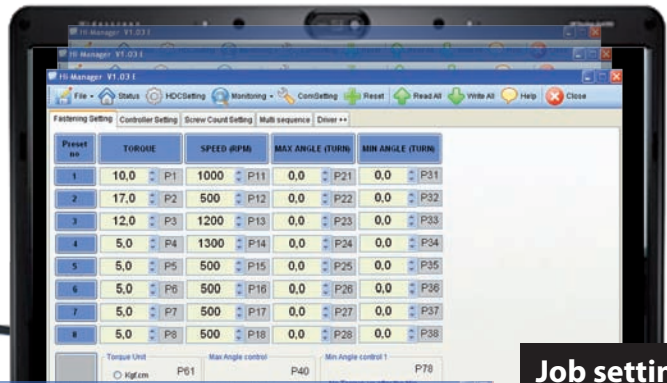


Pistol Grip

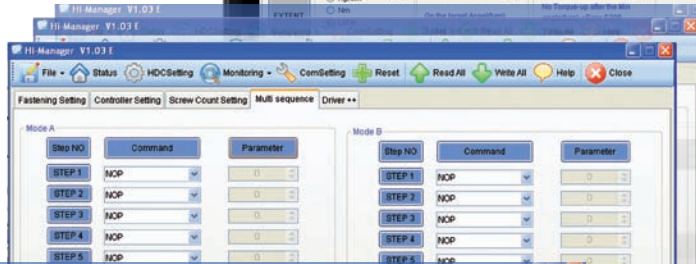
**Code : 1042210**

# Hi Manager Software

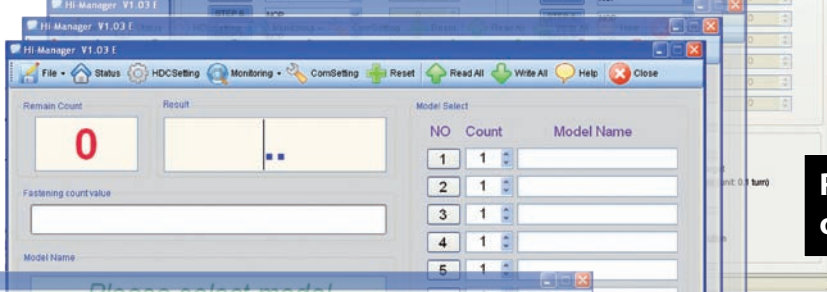
Set and monitor your tool,  
your tightening environment on  
free PC Software, Hi-Manager



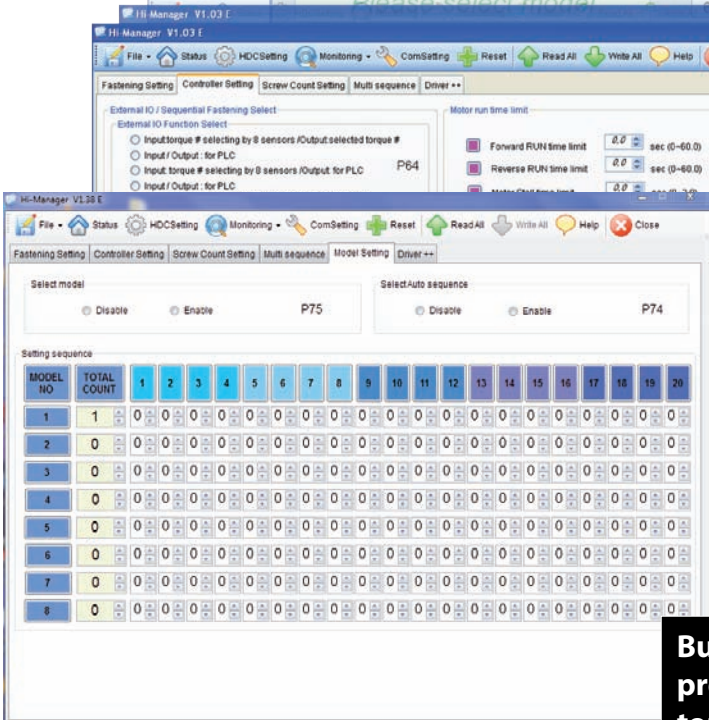
**Job settings  
(Torque, Speed,  
Angle, Soft start,  
Torque tuning)**



**Real time readings  
of all tightenings**



**Screw counter  
process Monitoring**



**Error Monitoring**

**Built-in counting  
program with  
torque sequencing**

# GX Series Brushless

**GX Series** 30 Volts - 0,05 to 1,2 Nm

Page 9



**GX Series** 40 Volts - 0,3 to 4,4 Nm

Page 10



ESD Free  
Conductive body

**Built-in control board**  
Digital speed control  
better torque accuracy

**Overload**  
Over Voltage & Heat Protection

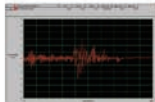
Trigger start and reverse button activated  
THROUGH SENSORS (Maintenance free)

Brushless Motor (Made in Switzerland)  
Designed for heavy duty cycle time



Clutch activated by sensors  
(No maintenance)

Shockless Clutch (GXS models)



## STANDARD FEATURES

- ✓ Digital speed settings
- ✓ Soft start settings
- ✓ Brushless motor
- ✓ Over current & heat alarms
- ✓ Start, reverse and shut-off activated by sensors

Improve your  
manufacturing quality!  
Lower your maintenance  
cost!



# GX Series

30 Volts • Torque range : 0,02 to 1,2 Nm • Auto-shut off • CE • 



## Main Benefits

- Higher productivity : thanks to high Brushless motor efficiency!
- Higher comfort : thanks to improved ergonomoy and reduced sound level and heat!
- Increased economy : thanks to brushless motor (triple the life time of the motor).
- Reduced maintenance : The best Mean Time Between Failure (MTBF) ever reached until now (no carbon brush, trigger and reverse contactless switches, over-heat and over-current built in alarms protecting the screwdrivers).
- Increased production quality : thanks to ESD protection, accurate clutch and Softstop clutch Mechanism.

• VACCUM System (Optional)

## MICRO TORQUE GX Series

(Features SOFT STOP clutch and Digital speed setting)

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec <sup>2</sup> )	Code
GX 035 ESD	0,02 - 0,34	300 to 1100	Lever	0,24	< 70	< 2,5	1040077
GX 045 ESD	0,04 - 0,45	300 to 700	Lever	0,24	< 70	< 2,5	1040078

Note : drive : shank drive 4 mm

## STANDARD Series : GX with digital speed and soft start

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec <sup>2</sup> )	Code
GX 80 ESD V2	0,09 - 0,8	450 to 1000	Lever	0,35	< 70	< 2,5	1021025
GX 120 ESD V2	0,2 - 1,2	300 to 700	Lever	0,35	< 70	< 2,5	1021026
GX 80 P ESD V2	0,09 - 0,8	450 to 1000	Push to Start	0,35	< 70	< 2,5	1021027
GX 120 P ESD V2	0,2 - 1,2	300 to 700	Push to Start	0,35	< 70	< 2,5	1021028

## SOFT STOP Series : GXS

(built-in special clutch mechanism providing soft shut-off to protect fragile parts)

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec <sup>2</sup> )	Code
GXS 80 ESD V2	0,09 - 0,8	450 to 1000	Lever	0,35	< 70	< 2,5	1021020
GXS 120 ESD V2	0,2 - 1,2	300 to 700	Lever	0,35	< 70	< 2,5	1021021

## TIMER & AUTOREVERSE Series : GXT

(fasten at preset angle/time, Automatic Reverse/forward, stop sequence – ideal for tapping operation, helicoil fastening, pre-assembly...)

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec <sup>2</sup> )	Code
GXT 80 ESD V2	0,09 - 0,8	450 to 1000	Lever	0,35	< 70	< 2,5	1021036
GXT 120 ESD V2	0,2 - 1,2	300 to 700	Lever	0,35	< 70	< 2,5	1021037

## FIXTURED SPINDLES Series : GXA

(for automation)

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec <sup>2</sup> )	Code
GXA035 ESD V3	0,03 - 0,35	300 to 1100	Remote	0,45	< 70	< 2,5	1040073
GXA045 ESD V3	0,04 - 0,45	300 to 700	Remote	0,45	< 70	< 2,5	1040078
GXA080 ESD V3	0,1 - 0,8	450 to 1000	Remote	0,45	< 70	< 2,5	1040074
GXA120 ESD V3	0,2 - 1,2	300 to 700	Remote	0,45	< 70	< 2,5	1040075

# GX Series

40 Volts • Torque range : 0,28 to 4,4 Nm • Auto-shut off • CE • 



## Main Benefits

- Higher productivity : thanks to high Brushless motor efficiency!
- Higher comfort : thanks to improved ergonomoy and reduced sound level and heat!
- Increased economy : thanks to brushless motor (triple the life time of the motor).
- Reduced maintenance : The best Mean Time Between Failure (MTBF) ever reached until now (no carbon brush, trigger and reverse contactless switches, over-heat and over-current built in alarms protecting the screwdrivers).
- Increased production quality : thanks to ESD protection, accurate clutch and Softstop clutch Mechanism.

## STANDARD Series : GX with digital speed setting and soft start

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec <sup>2</sup> )	Code
GX-150 ESD	0,3 - 1,47	800 to 1700	Lever	0,52	<70	<2,5	1027422
GX-220 ESD	0,6 - 2,15	600 to 1200	Lever	0,52	<70	<2,5	1027423
GX-450 ESD	1 - 4,41	300 to 600	Lever	0,52	<70	<2,5	1027424
GX-150 P ESD	0,3 - 1,47	800 to 1700	Push to Start	0,52	<70	<2,5	1027425
GX-220 P ESD	0,6 - 2,15	600 to 1200	Push to Start	0,52	<70	<2,5	1027426
GX-450 P ESD	1 - 4,41	300 to 600	Push to Start	0,52	<70	<2,5	1027427

## SOFT STOP Series : GXS

*(built-in special clutch mechanism providing soft shut-off to protect fragile parts)*

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec <sup>2</sup> )	Code
GXS-150 ESD	0,3 - 1,47	800 to 1700	Lever	0,52	< 70	< 2,5	1077410
GXS-220 ESD	0,6 - 2,15	600 to 1200	Lever	0,52	< 70	< 2,5	1077411
GXS-150P ESD	0,3 - 1,47	800 to 1700	Push to Start	0,52	< 70	< 2,5	1077412
GXS-220P ESD	0,6 - 2,15	600 to 1200	Push to Start	0,52	< 70	< 2,5	1077413

## TIMER & AUTOREVERSE Series : GXT

*(fasten at preset angle/time, Automatic Reverse/forward stop sequence – ideal for tapping operation, helicoil fastening, pre-assembly...)*

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec <sup>2</sup> )	Code
GXT-150 ESD	0,3 - 1,47	800 to 1700	Lever	0,52	<70	<2,5	1075304
GXT-220 ESD	0,6 - 2,15	600 to 1200	Lever	0,52	<70	<2,5	1075305
GXT-450 ESD	1 - 4,41	300 to 600	Lever	0,52	<70	<2,5	1075306

## FIXTURED SPINDLE FOR AUTOMATION

*(Automatic spindle with remote start)*

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec <sup>2</sup> )	Code
GXA-150 ESD V2	0,3 - 1,47	800 to 1700	Remote	0,8	<70	<2,5	1040070
GXA-220 ESD V2	0,6 - 2,15	600 to 1200	Remote	0,8	<70	<2,5	1040071
GXA-450 ESD V2	1 - 4,41	300 to 600	Remote	0,8	<70	<2,5	1040072

# Controller

**SMPS Technology Inside!**

## Main Benefits

- High productivity : Thanks to the unique SMPS technology (switching modulation), the connected screwdriver always delivers constant rotation speed and fastening force even for demanding fastening process (self-tapping tightening, soft joint....).
- Comfort : Light and compact.
- Durability : Built-in Over heat and Over Current protection prevent the screwdriver from damage or bad use.
- Economy : Maintenance free.
- Quality : Easy monitoring of your fastenings thanks to torque reached signal output, start and stop signal outputs, selectable softstart, Double-hit mode for soft joint, Screwdriver lock signal input for PLC (prevents screwdrivers activation until PLC input signal).



XS-40D

## Controller

Model	Power (AC) (V)	Output voltage low (V)	Output voltage high (V)	Rated output (A)	Weight (Kg)	Size (mm)	For screwdrivers 30 and 40 Volts	Code
XS-40D	220	30	40	3	0,86	90x150x55	GX Series	1040065
XS-40D FA	220	30	40	3	0,86	90x150x55	GXA Series	1040080

## SCOUT Poka yoke controller (Suitable with XS-38D, XS-38D FA, XS-40D\*)

**Prevents screw fastening errors!  
Supervised process! 1**



Set up to 7 tightening programs

Tightening monitoring :

- Detects cross threading, omissions, double tightening, unfinished rundown.
- Screws counting, OK-NG fastening, OK-NG cycle.
- Buzzer Alert, displays error conditions.

Sequence management :

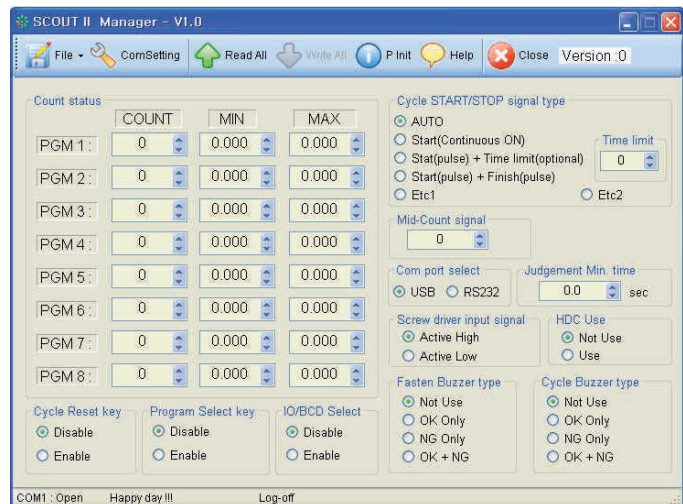
- Parts detection, parts OK-NG sorting through PLC.
- Storage of several tightening settings with the parameter mode.

Model	Key features	Inputs features	Outputs features	Code
SCOUT II	<ul style="list-style-type: none"> <li>&gt; Password protection</li> <li>&gt; Display of total fastened screw number</li> <li>&gt; Display of remaining screw number</li> <li>&gt; Built-in fastening time measurement function</li> <li>&gt; Alarms: leds + several buzzers</li> <li>&gt; Easy programming by scroll menu and self learning mode</li> <li>&gt; Wall mountable</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Cycle start</li> <li>&gt; Driver lock/unlock</li> </ul>	<ul style="list-style-type: none"> <li>&gt; OK</li> <li>&gt; NG</li> <li>&gt; Buzzer alarm</li> <li>&gt; Cycle end</li> </ul>	1074000

Delivered with :

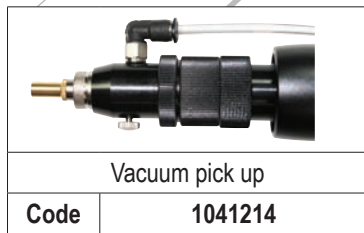
- Connection cable on controller
- I/O connection cable

**Easy programming thanks  
to the Scout II manager  
software!**



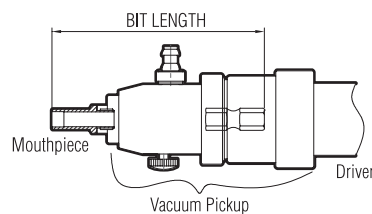
# Accessories *For GX Series*

## Screw Vacuum Pickups (for GX - 30 Volts only)



Vacuum pick up assembly is provided without the sleeve (on request).

The recommended bit length is 44 mm.  
Thread size : 4mm.



## Accessories

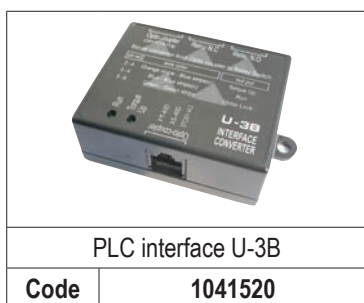
Designation	Torque ring cover Black	Ring for arm mounting for GX (30 Volts) only	Spiral cable 4 m
Code	1041213 (for GX 30 Volts) 1041205 (for GX 40 Volts)	1000223	1010413

Designation	Lock key*	Lock key firmware upgrade*	Pistol grip for 40 Volts
Code	1044850	1000222	1010420

\* Available only for standard series GX 30 & 40 Volts.

Angle head for 30 Volts and 40 Volts
1000220   1000221

## PLC Interface



- Model U-3B
- Weight : 75g
- Size : 75(W) x 61(D) x 20(H)mm
- Type of signals :
  - open collector by optocoupler (reversed)
  - relay contact N.C
  - Relay contact N.O

### Converted signals by U-3B converter from XS-40D

N°	Wire Color	Signal	XS-38D	Interface converter
1	ORANGE	Spare		
2	ORANGE STRIPE	Torque Up		
3	BLUE	Motor Run		
4	BLUE STRIPE	Common for 2&3 wire		
5	GREEN	Driver Lock		
6	GREEN STRIPE			
7	BROWN	No use		
8	BROWN STRIPE	Spare		

# GA Series *Torque range : 0,08 to 1,18 Nm • Auto shut-off • CE •*



## Main Benefits

- designed for operator comfort : light weight and small sized, full ergonomic design
- designed for productivity : Accurate shut-off clutch (+/- 3%), speed control, maintenance free (shut-off operated by magnetic sensor - no wearing)
- designed for quality : ESD free, External torque adjustment scale, soft start, double hit mode.

## GA Series

Model	Torque range (Nm)	Rotation speed (rpm)	Drive size	Starting system	Weight (Kg)	Noise Level (dBA)	Vibrations Level (m/sec <sup>2</sup> )	Code
GA-150 ESD	0,08 - 0,78	700 - 1000	Fem. Hex 1/4"	Lever	0,31	<70	<2,5	1040011
GA-180 ESD	0,1 - 1,18	450 - 700	Fem. Hex 1/4"	Lever	0,31	<70	<2,5	1040012
GA-150 P ESD	0,08 - 0,78	700 - 1000	Fem. Hex 1/4"	Push-to-start	0,31	<70	<2,5	1040013
GA-180 P ESD	0,1 - 1,18	450 - 700	Fem. Hex 1/4"	Push-to-start	0,31	<70	<2,5	1040014

## Standard equipment (supplied with the tool)

- Power supply cable 3 m
- 2 carbon brushes
- 2 bits Philips n° 0, n° 1
- Clutch adjustment springs
- Suspension ring
- User manual

## Accessories & Wear spare parts

							
Designation	Carbon brush	Brush cap	Torque ring cover Black	Ring for arm mounting	Extra long cable 5 m	Spiral cable 5 m	Screw vacuum Pick-up
Code	1041219	1041203	1041212	1041500	1041215	1041216	1041214

## Controllers



# DO Series *Torque range : 0,2 to 4,41 Nm • Auto shut-off • CE •*



DO-450

DO-250 P

## Main Benefits

- designed for operator comfort : light weight and small sized, full ergonomic design
- designed for productivity : Robust and durable - Suitable with high production rate, Accurate shut-off clutch (+/- 3%), speed control, maintenance free (shut-off operated by magnetic sensor - no wearing)
- designed for quality : ESD free, External torque adjustment scale

## DO Series

Model	Torque range (Nm)	Rotation speed (rpm)	Drive size	Starting system	Weight (Kg)	Noise Level (dBA)	Vibrations Level (m/sec <sup>2</sup> )	Code
DO-250 ESD	0,2 - 2,45	630 - 1050	Fem. Hex 1/4"	Lever	0,72	<70	<2,5	1040036
DO-350 ESD	0,2 - 3,43	460 - 750	Fem. Hex 1/4"	Lever	0,72	<70	<2,5	1040037
DO-450 ESD	0,3 - 4,41	330 - 550	Fem. Hex 1/4"	Lever	0,72	<70	<2,5	1040038
DO-250 P ESD	0,2 - 2,45	630 - 1050	Fem. Hex 1/4"	Push-to-Start	0,72	<70	<2,5	1040040
DO-350 P ESD	0,2 - 3,43	460 - 750	Fem. Hex 1/4"	Push-to-Start	0,72	<70	<2,5	1040041
DO-450 P ESD	0,3 - 4,41	330 - 550	Fem. Hex 1/4"	Push-to-Start	0,72	<70	<2,5	1040042

## Standard equipment (supplied with the tool)

- Power supply cable 3 m
- 2 carbon brushes
- 2 bits Philips n° 0, n° 1
- Clutch adjustment springs
- Suspension ring
- User manual

## Accessories & Wear spare parts

Designation	Carbon brush	Brush cap	Torque ring cover Black	Ring for arm mounting	Extra long cable 5 m	Spiral cable 5 m	Pistol Grip Kit
Code	1041220	1041203	1041211	1041502	1041215	1041216	1010412

## Controllers



XS-38D

# Controllers

**SMPS Technology Inside!**



## Main Benefits

- High productivity : Thanks to the unique **SMPS technology** (switching modulation), the connected screwdriver always delivers constant rotation speed and fastening force even for demanding fastening process (self-tapping tightening, soft joint....)
- Comfort : Light weight and compact
- Durability : Built-in Over heat and Over Current protection prevent the screwdriver from damage or bad use
- Economy : Maintenance free
- Quality : Easy monitoring of your fastenings thanks to torque reached signal output, start and stop signal outputs, selectable softstart, Double-hit mode for soft joint, Screwdriver lock signal input for PLC (prevents screwdrivers activation until PLC input signal - on XS-38 D only).



XS-38D



XT-30D

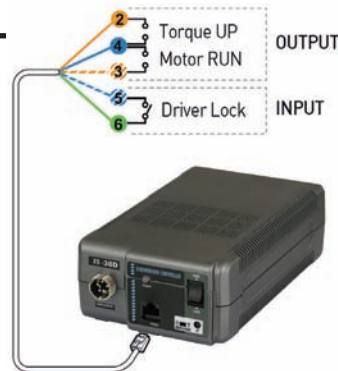
## Controllers

Model	Power (AC) (V)	Output voltage low (V)	Output voltage high (V)	Rated output (A)	Max. output (A)	Weight (Kg)	Size (mm)	For screwdrivers	Code
XT-30D	220	20	30	1,2	2	0,33	70x130x40	GA Series	<b>1040062</b>
XS-38D V4.3*	220	30	38	2,5	5	0,7	90x150x55	DO Series	<b>1040063</b>
		20	30					GA Series	

## Signals (Input- Output)

\* XS-38D V4.3 : Signal Type selectable

Normally close or Normally open for NPN or PNP Communication



## PLC Interface for XS-38D

Interface U-3 (for NC protocol)

Code	<b>1041217</b>
------	----------------

- Model U-3
- Weight : 75g
- Size : 75(W) x 61(D) x 20(H)mm
- Type of signals :
  - open collector by optocoupler (reversed)
  - relay contact N.C
  - Relay contact N.O

### Converted signals by U-3 converter from XS-38D

N°	Wire Color	Signal	XS-38D	Interface converter
1	ORANGE	Spare		
2	ORANGE STRIPE	Torque Up		
3	BLUE	Motor Run		
4	BLUE STRIPE	Common for 2&3 wire		
5	GREEN	Motor Lock		
6	GREEN STRIPE			
7	BROWN	No use		
8	BROWN STRIPE	Spare		

Interface U-3B (for NO protocol)

Code	<b>1041520</b>
------	----------------

- Model U-3B
- Weight : 75g
- Size : 75(W) x 61(D) x 20(H)mm
- Type of signals :
  - open collector by optocoupler (reversed)
  - relay contact N.C
  - Relay contact N.O

### Converted signals by U-3B converter from XS-38D

N°	Wire Color	Signal	XS-38D	Interface converter
1	ORANGE	Spare		
2	ORANGE STRIPE	Torque Up		
3	BLUE	Motor Run		
4	BLUE STRIPE	Common for 2&3 wire		
5	GREEN	Motor Lock		
6	GREEN STRIPE			
7	BROWN	No use		
8	BROWN STRIPE	Spare		