SEHAN
ELECTOOLS

HYBRID DIGITAL SCREWDRIVERS

Servo Motor control technology
Hybrid with compressed air
World first solution & Patent





B-508-2 BUNDANG TECHNO PARK, SEONGNAM-SI
KYONGGI-DO, KOREA (463-760)
TEL : 82-31-701-9855 FAX : 82-31-701-9853

http://www.sehan.co.kr
http://www.sehan-tools.co.kr

SEHAN
ELECTOOLS

Hybrid Screwdriver System



Replace over 3 Screwdrivers
with easy Torque, Speed Shifting
Best choice for Cell line Manufacturing





PC Communication by
USB or RS232



32Bit Microprossor





Built in Screw counter

Patent

Worldwide Patent



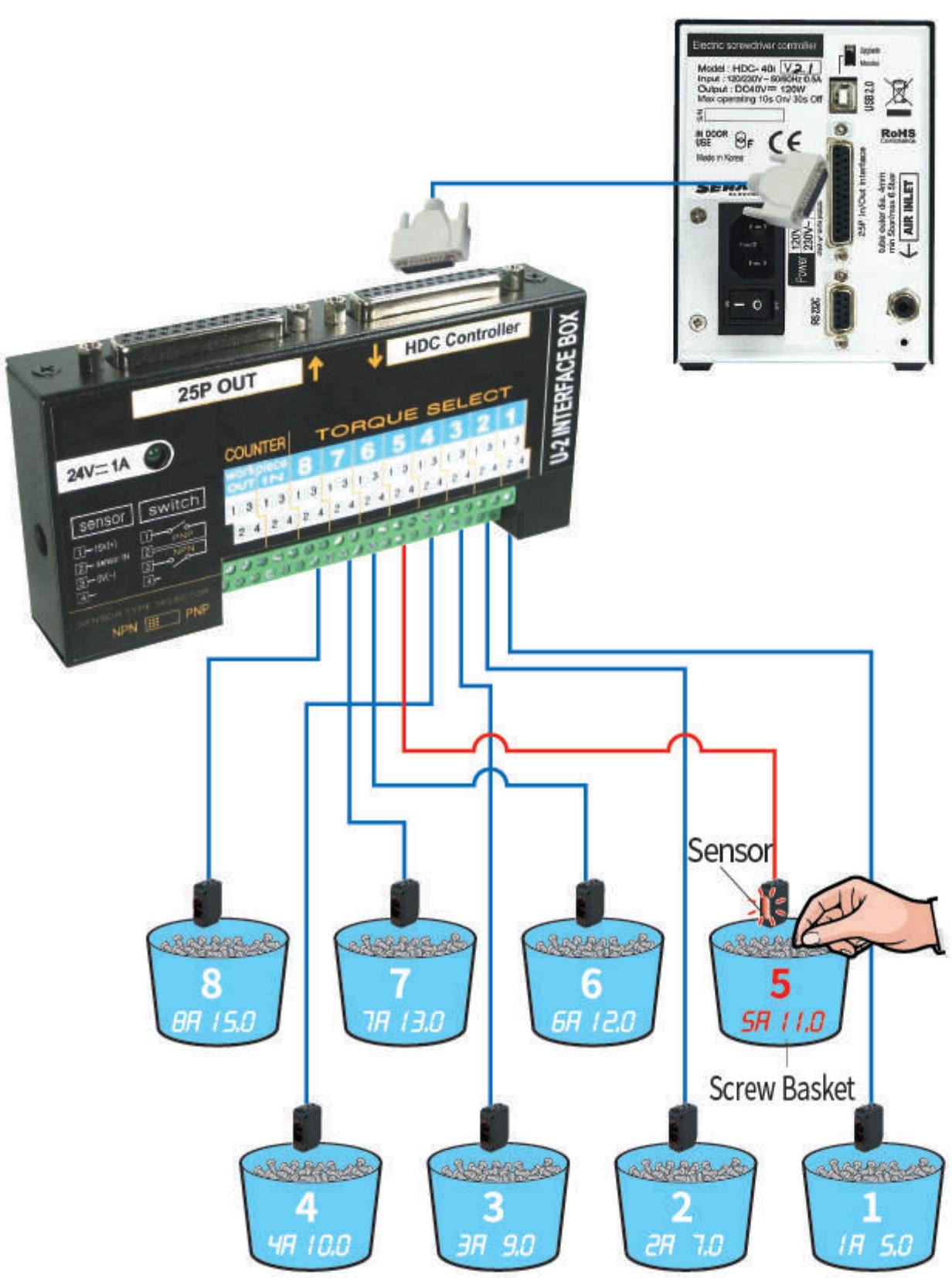
25P I/O Remote control &
Preset no seleting by sensor



Best Quality Brushless motor used

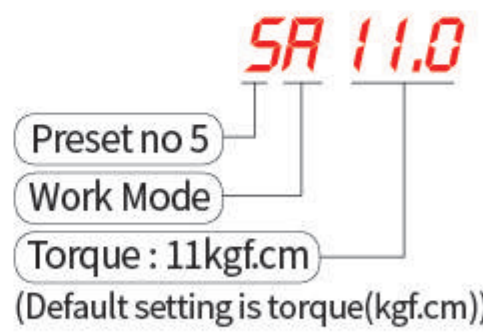
Data monitoring &
Quality control

Example of Shifting various Torque by sensor



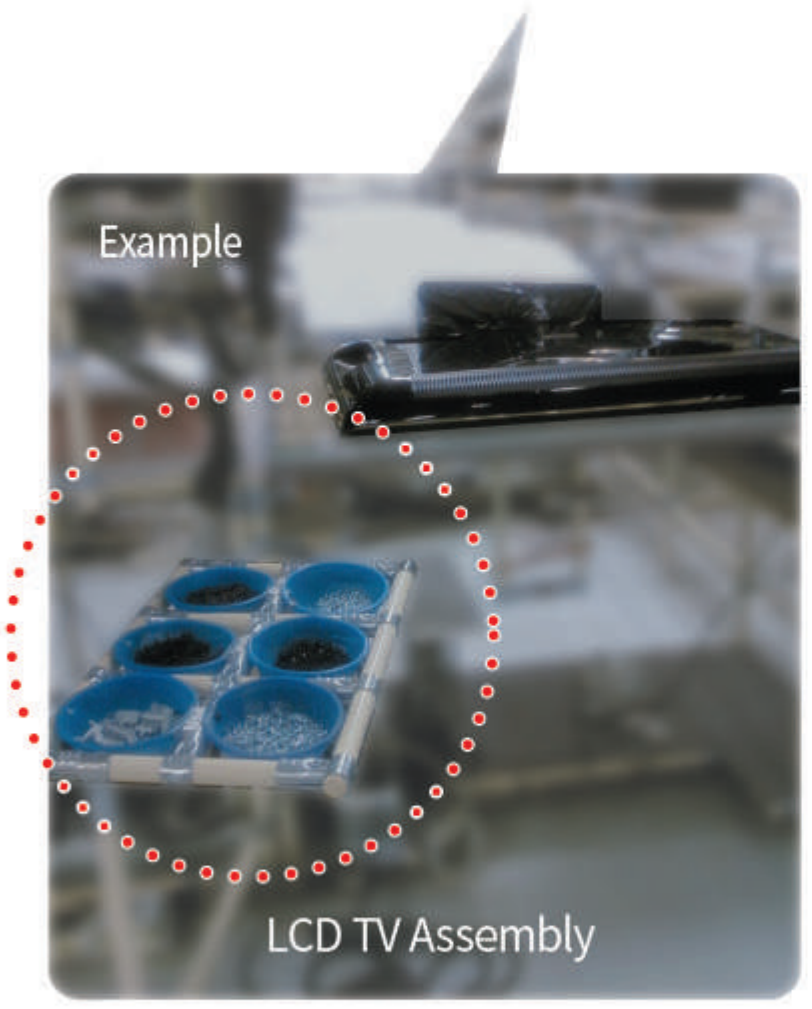


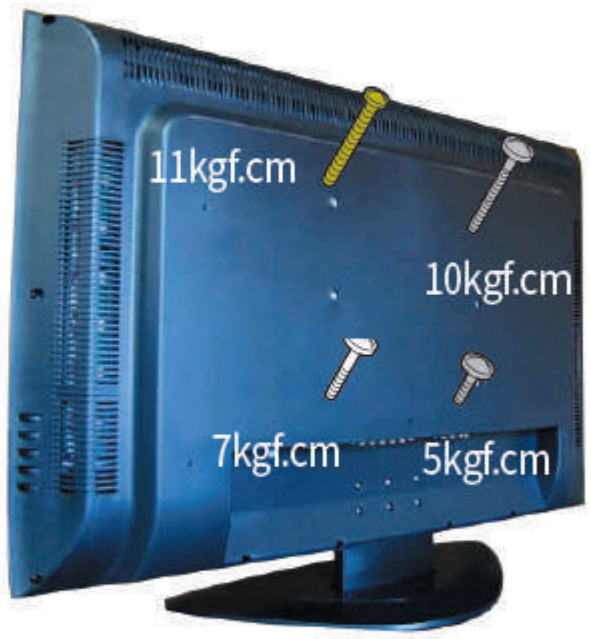
• FND Description



(Default setting is torque(kgf.cm))

- Preset no 1 8 has each torque, speed, angle(min/max) setting.
- Each preset no. is simply selected by sensor when operator pick up screw.





8 different torque inculding speed can be applied by one Hybrid screw driver.

SEHAN HYBRID DIGITAL SCREWDRIVERS
Best combination of ergonomic design and precision power mechanism

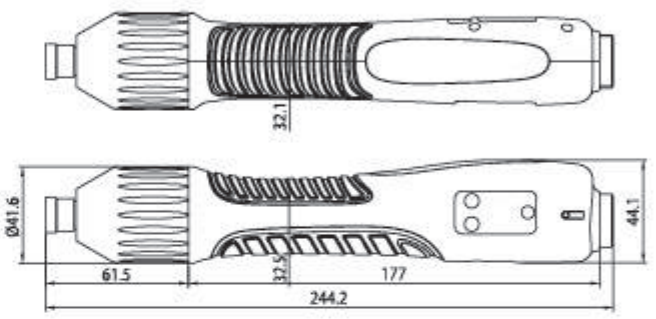
SEHAN ELECTOOLS

Brushless Motor Used

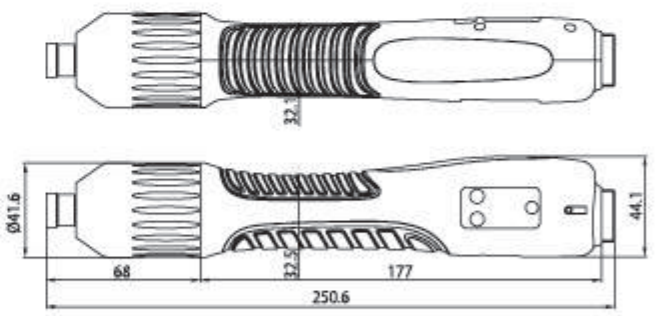
HD150P HD220 HD450



HD150, HD220



HD350, HD450



- Swiss made BLDC motor used
- ESD free by body grounding
- Torque repeatability ±3%
- Long life time over 5 million cycle
- Inside memory chip for tool data
- Automation system applicable

• **Controller** :
HDC-40i



Model : **HD150-A**

Base model

1/4" Hex bit socket

MODEL	TORQUE(Kgf.cm)	SPEED(rpm)	START	WEIGHT	CONTROLLER
HD081	3.0~8.0	1,000~1,700	LEVER	0.44	HDC-40i
HD150	5.5~15.5	500~1,700		0.44	
HD220	7.0~22.0	400~1,250		0.44	
HD350	10.0~35.0	400~740		0.51	
HD450	10.0~45.0	300~600		0.51	
HD081P	3.0~8.0	1,000~1,700	PUSH	0.44	
HD150P	5.5~15.5	500~1,700		0.44	
HD220P	7.0~22.0	400~1,250		0.44	
HD350P	10.0~35.0	400~740		0.51	
HD450P	10.0~45.0	300~600		0.51	

• Standard packing - Screwdriver(1), 14P-3M cable(1), Test bits(2)

Accessary

- Data manager
  7" Touch Screen



U-2 Interface Box



- Standard
  Driver Cable14p 3M



- Option
  Pistol Grip



Cable

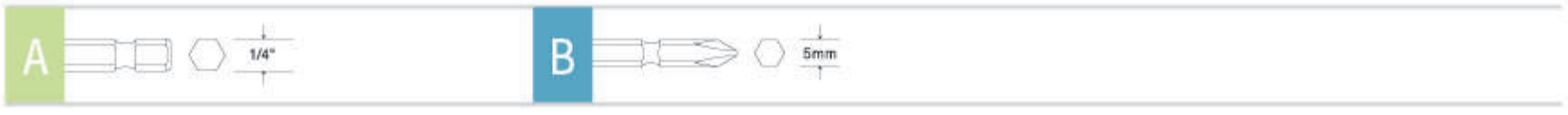


RS232 Com Cable



25P I/O Cable

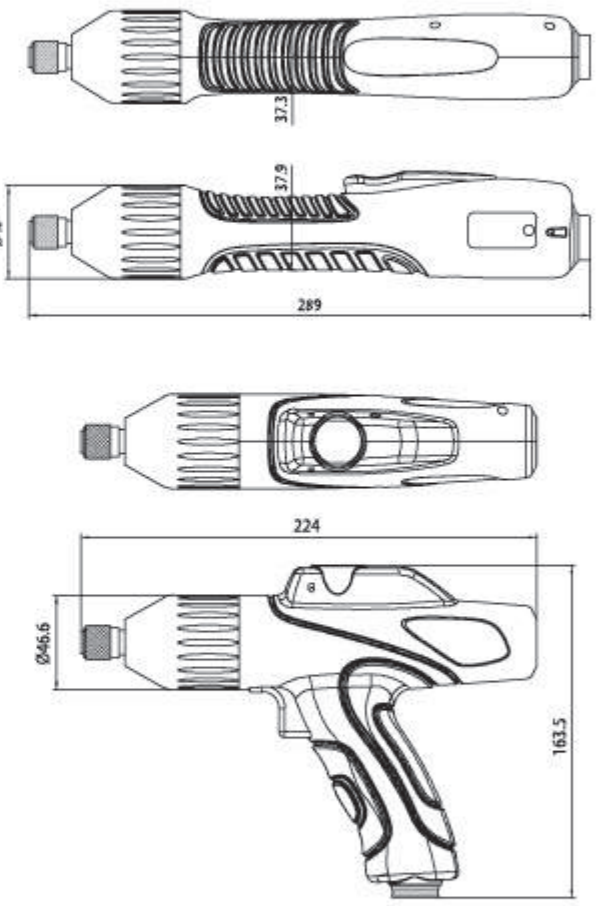
BIT SOCKET



SEHAN ELECTOOLS

Brushless Motor Used





• **Controller :**
HDC-35i



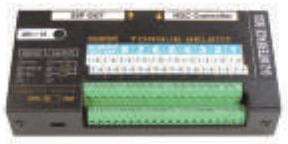
MODEL	TORQUE(Kgf.cm)	SPEED(rpm)	START	WEIGHT	CONTROLLER
HD35N	12~35	500~1,500	LEVER	0.7	HDC-35i
HD50N	15~50	300~1,050		0.7	
HD100N	30~100	250~500		0.75	
HD35NP	12~35	500~1,500	PUSH	0.7	
HD50NP	15~50	300~1,050		0.7	
PHD35N	12~35	500~1,500	PISTOL	0.82	
PHD50N	15~50	300~1,050		0.82	
PHD100N	30~100	250~500		0.86	

Accessary

• Data manager
7" Touch Screen



U-2 Interface Box



• Standard
Driver Cable14p 3M





• Option
Cable



RS232 Com Cable



25P I/O Cable

BIT SOCKET



Not avaiable for
HD100N and PHD100N

SEHAN ELECTOOLS

■ CONTROLLERS

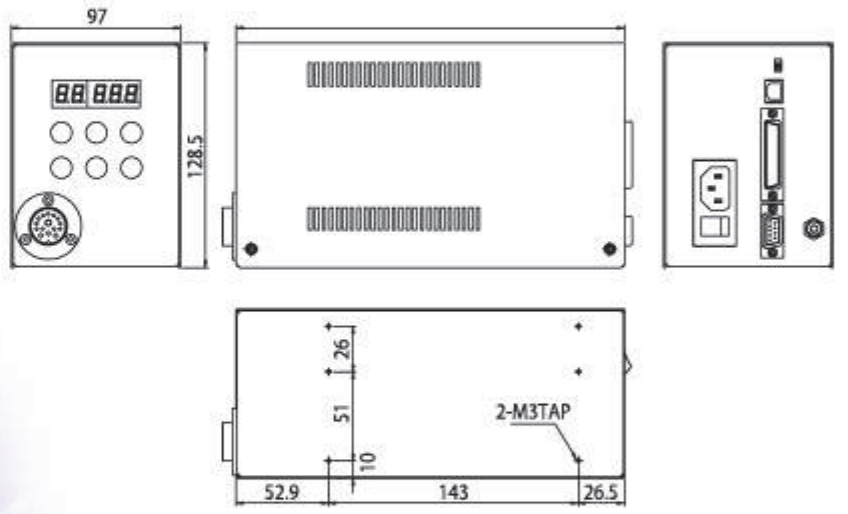


■ POWER CODE

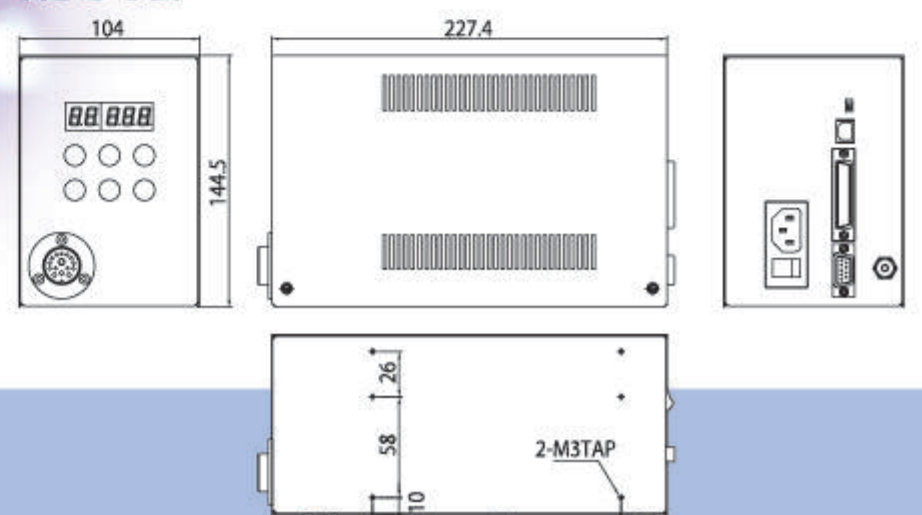


KS UL CE

HDC-40i



HDC-35i



HDC-40i | HDC-35i

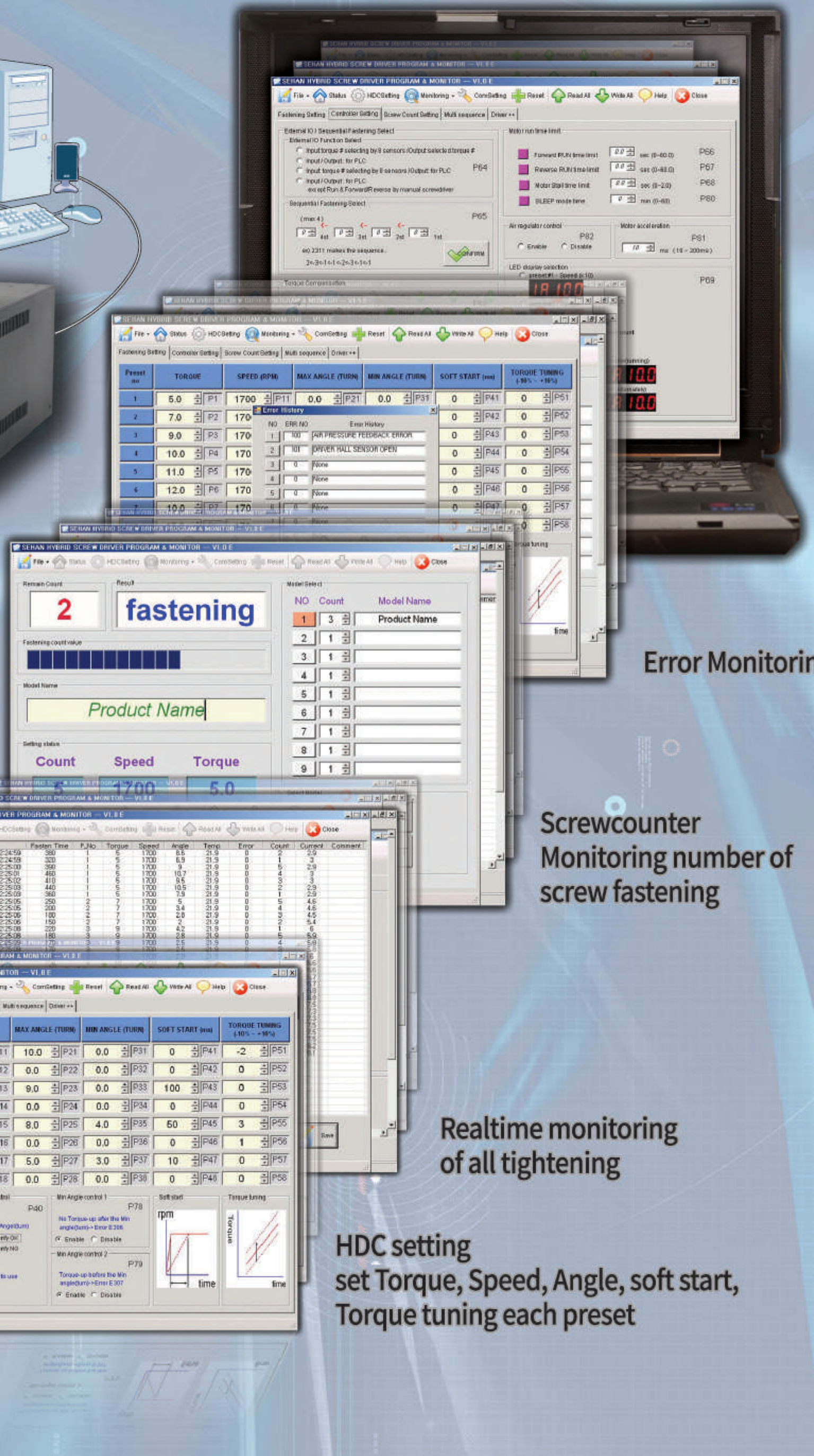
No	ITEM		SPECIFICATION	
1	**Model**		**HDC-40i**	**HDC-35i**
2	Input	Electric	AC110VC or AC220V, 50~60Hz	
3		Air pressure	Min 4.5 bar / Max 6 bar	
4	Output	Electric	DC40V, 3A	DC35V, 4A
5	Fuse		AC250V, 10A	AC250V, 15A
6	Dimension / Weight		Refer to the drawing	
7	Preset parameters		Torque, Speed & Angle in 8 preset numbers	
8	Selecting the preset no.		1) Front panel button 2) 25P I/O interface 3) 8 direct sensor connecting port 4) 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 on 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 monitoring the number of OK fastening screws.	
14	Monitoring and parameter		Monitoring and parameter setting on the PC program (MS Windows base)	
15	Communication port		USB or RS232C	

SEHAN
ELECTOOLS

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







Error Monitoring

Screwcounter
Monitoring number of screw fastening

Realtime monitoring
of all tightening

HDC setting
set Torque, Speed, Angle, soft start,
Torque tuning each preset

B-508-2 BUNDANG TECHNO PARK,
SEONGNAM-SI, KYONGGI-DO,
KOREA (463-760)
Tel : 82-31-701-9855
Fax : 82-31-701-9853
http://www.sehan.co.kr
http://www.sehan-tools.co.kr

Catalog 4rd edition, Sep, 2016