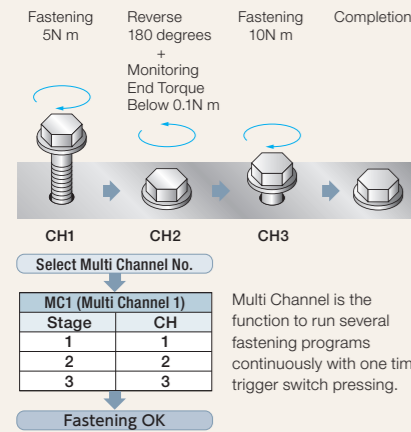


Battery Tool Handy 2000 cordless

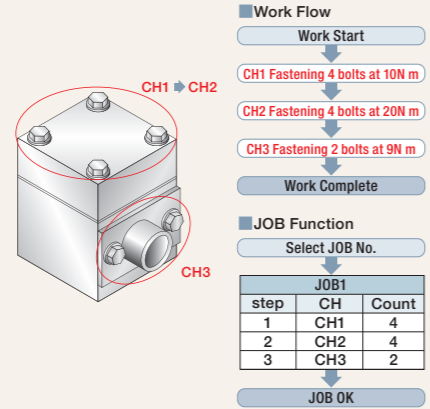
Channel/Multi Channel

Maximum of 99 fastening programs can be stored in the controller, which gives flexibility to assemble several areas with single tool.



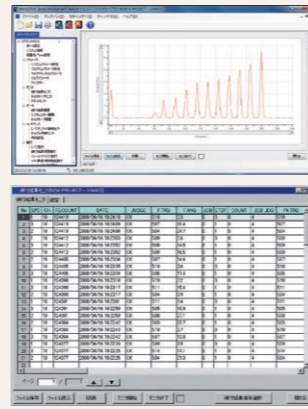
JOB Function

JOB is used to fasten multi bolts with multi fastening strategy in sequence. Up to 99 JOB can be programmed and stored in the controller, and up to 30 Steps can be programmed in 1 JOB.



Management Software

ESTIC's software is user friendly interface to edit fastening and system parameters. Various functions including fastening results monitor and torque curve monitor are in one package.



Tool Unit Basic Specifications

Type	Model	Drive Mode	Torque Range		Max.Speed (rpm)	Output Drive		Weight*4		Battery Type	Length		Distance from the center	
			(N m)	(ft lb)		(mm)	(inch)	(kg)	(lb)		(mm)	(inch)	(mm)	(inch)
Pistol Grip	EHC-R0005-PZ*	Pulse/Direct	1-5	0.7-3.7	1440	9.5	3/8	1.3	2.87	25.2V	217	8.54	23	0.91
	EHC-R0008-PZ*	Pulse/Direct	1.6-8	1.2-5.9	936	9.5	3/8	1.3	2.87	25.2V	217	8.54	23	0.91
	EHC-R0012-PZ*	Pulse/Direct	2.4-12	1.8-8.9	638	9.5	3/8	1.3	2.87	25.2V	217	8.54	23	0.91
	EHC-L0026-PZ*	Pulse Only	5.2-26	3.8-19.2	936	9.5*2	3/8*2	1.6	3.53	25.2V	241	9.49	23	0.91
Right Angle	EHC-R1030-AZ*	Direct Only	6-30	4.4-22.1	393	9.5*3	3/8*3	2	4.41	36V	557	21.93	17.2	0.68
	EHC-R1050-AZ*	Direct Only	10-50	7.4-36.9	215	9.5*3	3/8*3	2.3	5.07	36V	572	22.52	17.2	0.68
	EHC-R1065-AZ*	Direct Only	13-65	9.6-48.0	166	12.7*3	1/2*3	2.7	5.95	36V	604	23.78	21	0.83
	EHC-R1090-AZ*	Direct Only	18-90	13.3-66.4	117	12.7*3	1/2*3	3.2	7.06	36V	638	25.12	25.5	1
	EHC-T0070-AZ*	Pulse Only	14-70	10.3-51.7	581	12.7*3	1/2*3	2.5	5.51	36V	571	22.48	21	0.83

* Code after PZ differs depending on the country 1: Japan, China, Europe, Brazil, Russia 2: USA, Canada

*2 Code at the end of Tool Model differs depending on the anvil type No code: Anvil with Through hole, (PP): Anvil with Pin plunger

*3 Code at the end of Tool Model differs depending on the anvil type No code: Anvil with Through hole, (PP): Anvil with Pin plunger, (BP): Anvil with Ball plunger

*4 Weight does not include the battery

Battery

*1 piece of Battery pack is included when 1 unit of Tool unit is purchased

Model	Voltage	Ampere-hour	Weight (kg)	Remarks
BPL-2515ES	DC25.2V	1.5Ah	0.54	for Pistol Grip
BPL-3620ES	DC36V	2.0Ah	0.68	for Right Angle

Interface Units

AC 100 ~ 240V Single Phase

Model	Fieldbus (Options)	USBPort	DC24V Port
EHC-IF10-Z*	—	—	—
EHC-IF20-Z*	x*2	x	x



* Code after PZ differs depending on the country
1: Japan, China, Europe, Brazil, Russia
2: USA, Canada

*2 DeviceNet, PROFIBUS, CC-Link, Ethernet/IP, Profinet

Battery Chargers

AC 100 ~ 240V Single Phase

Model	Suitable battery
BC0075G	BPL-2515ES
BC1475ES	BPL-2515ES / BPL-3620ES



Please download CAD data through <https://www.estic2.com/caddata/>.



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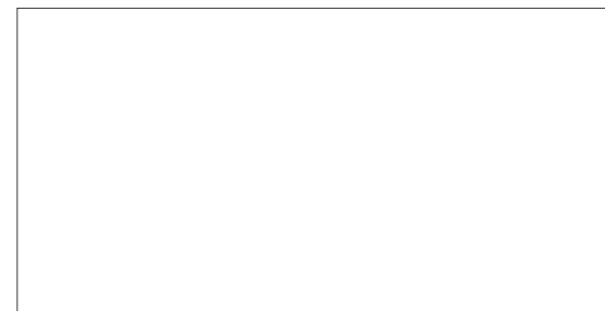
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The colors of the products may slightly differ from those of the actual products, which is inevitable in printing.
The specifications and designs of the products may be changed without prior notice.



This catalog uses vegetable oil ink.
This catalog features our product lineup as of December 2017.



With us, the Future

Long-awaited pulse-driven tightening angle type tool now available!



Battery Tool

Pistol Grip / Right Angle

Handy 2000 cordless

Transducerized Electric Handheld Nutrunner

World's first electric pulse handheld tool brings you evolution in assembly

ESTIC makes a change for manufacturing with a new generation handheld tool

Pistol Grip

Front Light
High brightness LED helps to work in the dim work environment.

Reverse Switch
Just one push to change fastening direction.

Trigger Switch
Smooth operation with soft start function assignable.

Grip

25v 1.5Ah Li-Ion Battery
Adopted High Output, Light-weight Li-Ion Battery
Charging time: 60 minutes*
Cycles per full charge: 1000 bolts on hard joint
*When the battery is charged by BC1475ES

Brushless Servo Motor
High accuracy, high speed response brushless servo motor guarantees high quality fastening. Rotating speed and torque output are not affected by battery balance. Resolver is adopted for angle and speed control.

LED backlight LCD

Tool Status LED

LED Color Indicator

Tool status is indicated by 7 different colors for easy recognition by the users. Default is set as Green: OK

	Fastening OK
	notOK
	CW
	CCW
	Fastening notOK (High)
	Fastening notOK (Low)
	Reverse direction

Right Angle

Torque Transducer
Strain gauge transducer is adopted. High performance is guaranteed by 8 gauges structure and Auto cancel function for disturbance.

Tool Status LED

Grip
Fit-to-hand ergonomically designed rubber handle grip.

Wireless Communication Technology
Estic Wireless Technology (EWT) is world's standard IEEE802.15.4/Zigbee embedded wireless technology to meet the requirements of quick startup, low current consumption, long distance communication.

Brushless Servo Motor

High accuracy, high speed response brushless servo motor guarantees high quality fastening. Rotating speed and torque output are not affected by battery balance. Resolver is adopted for angle and speed control.

LED backlight LCD

Items below are displayed on LCD
Valid Channel
Batch Count
Torque and Angle
Judge
Battery Charge
Wireless Reception
Fastening NG number
System Error number

36v 2.0Ah Li-Ion Battery
Charging time: 90 minutes

Features

High fastening accuracy

Pistol Tool (Direct-driven): $3\sigma/\bar{X} \leq 3\%$ (Full Scale)
Angle Tool (Direct-driven)
Pistol Tool (Pulse-driven): $3\sigma/\bar{X} \leq 5\%$ (Full Scale)
Angle Tool (Pulse-driven): $3\sigma/\bar{X} \leq 7\%$ (Full Scale)

Tool Capability

Tools are evaluated using test equipment with traceable results based on national measuring standards, and test result tables are issued.

Self-diagnosis system check

Transducer and circuit board have self-diagnosis function to keep the system running in good condition.

Traceability (Data storage)

Tool Unit stores
Fastening result: Max. 30,000 records
Torque Curve: OK 5, notOK 10
System Error: 50 records

Networking can be built through I/F unit which has Ethernet, RS-232C port with various protocols such as Open Protocol, Chrysler PFCS, Global Pokayoke

Process Control

Various functions are available on Handy 2000 Cordless system to keep your assembly process functional.
Multi fastening strategies on one tool
Channel, Multi Channel, JOB function, Batch Count
Various monitoring functions
Seizing, Re-hit, Self-tapping, zone monitor
Various fastening methods
Torque control, Angle control, Torque and/or Angle control
Internal PLC function
and more...

Pulse Drive Mode (Patented technology)

Our patented Pulse Mode (tightening) reduces the reaction force, a stress on the operator during tightening.
* Except on Direct (tightening) only tools

The reaction force is greatly reduced during tightening, while maintaining the high torque accuracy of an electric nutrunner and providing excellent workability.

Patent (U.S.A) US7,770,658 B2	Patent (Japan) 5094952
US6,680,595 B2	4837498
	4699316
	4484447
	3456949

Interface Unit

Infrared Data Communication

Sending a program file between Tool Unit and Interface Unit can be made through infrared without the two units being connected.

Networking

Ethernet x 1 port
RS-232C x 1 port
Barcode scanner
Management Software
Protocols
Open Protocol
Chrysler PFCS
Global Pokayoke

Networking

Handy2000 series Corded Tools, Server, Data Logger Management Software, Touch Screen (HMI), PLC

IEEE802.15.4 Wireless Communication (EWT™), Infrared Data Communication, RS232C DC5V, I/O, Signal Light, Interlocking, PLC, Management Software, USB Flash Drive, PC-USB, DC24V, Socket Tray, NET, EHC-IF20-Z**

Connection between Tool Unit and Interface Unit is 1 to 1