



HIOS Product Line

Products and Solutions for Assembly



About ASG

We are personally committed to understanding and exceeding the requirements of our internal and external customers and all other interested parties. We are committed to continuously improving our products, processes, and services.

We are dedicated to delivering products, services, and solutions on time and at a competitive value.

ASG, Division of Jergens, Inc. is an ISO 9001:2015 certified manufacturer, provider and service center for products and solutions focused around assembly. Since the 1970s, we have developed a first-class reputation unrivaled in the industry offering a wide range of world class products through our various world wide locations.

We offer a wide selection of products including: electric, pneumatic and manual torque control screwdrivers; torque and angle control precision fastening systems; automatic screw feeders and screw presenters; torque testers and calibration services; custom designed automation equipment as well as a full line of accessories.

ASG also offers a selection of value-added products and solutions including engineering and consulting services, financing, and extended protection and maintenance plans.



Industry Commitment

ASG is committed to the highest quality standards, ensuring that all processes and procedures are followed to produce the best products for our customers. We maintain ISO 9001:2015 certification for the manufacture, distribution, and service of assembly tools. Maintaining membership in key industry organizations in order to stay abreast of the most current industry trends and information is vital to serving our customers.





Assembly Product Group

Reliable Performance

ASG Assembly features a wide range of products and solutions for general assembly. Featured in this product group: HIOS® premium brand electric torque control screwdrivers and accessories, ASG brand value engineered torque control screwdrivers and accessories, coordinating accessories, and general assembly workstation aides. With unsurpassed error-proofing, high reliability, durability and repeatability, ASG Assembly products ensure long life and ease of use.



About HIOS®

HIOS® Inc. has specialized in the manufacture of screw tightening equipment since its establishment in 1970. HIOS® continues to develop business today while considering global environment and improving overall work efficiency. HIOS® aims to provide the highest quality while creating a comfortable working environment from the viewpoint of customers. They review the environment surrounding tightening operations from various aspects and try to improve it every day.



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Section 1: HIOS Torque Testers

HIOS HP Series

HIOS torque meters are premium quality torque testers with a long history of proven performance.



- Torque Accuracy: $\pm 0.5\%$ of full scale
- Calibration certificate traceable to N.I.S.T.
- Data output and analog output, data can be imported to a computer, contact ASG for additional information
- Reads clockwise and counterclockwise
- 3 Modes of Operation: Track, Peak, and First Peak
- Maximum, minimum, and average of last 10 torque readings can be measured
- Up to 100 readings stored in memory
- Multiple Functions: Auto Reset, Manual Reset, Auto Send to Printer, Manual Send to Printer
- Accessories Included: Rundown adapter(s) (See page 15 for details), battery charger, and carrying case

Model Number	ASG EU Number	Torque Range		
		N.m	N.mm	lbf.in
HPN-1-C	050127-CE	—	1.5 - 100.0	0.015 - 0.90
HPN-10-C	050126-CE	0.015 - 1.000	—	0.15 - 9.00
HPN-100-C	050125-CE	0.15 - 10.00	—	1.5 - 90.0

HIOS HDP Series Auditing Torque Testers

HIOS HDP Series Auditing Torque Testers are premium quality torque testers with proven reliability and are ideal for auditing the torque of previously tightened fasteners.



- Torque Accuracy: $\pm 0.5\%$ of full scale
- Calibration certificate traceable to N.I.S.T.
- Data output and analog output
- Reads clockwise and counterclockwise
- 3 Modes of Operation: Track, Peak, and First Peak
- Maximum, minimum, and average of last 10 torque readings can be measured
- Up to 100 readings stored in memory
- Multiple Functions: Auto Reset, Manual Reset, Auto Send to Printer, Manual Send to Printer
- Accessories Included: Assorted bits, battery charger, and carrying case

Model Number	ASG EU Number	Torque Range	
		N.m	lbf.in
HDPN-50-C	050128-CE	0.15 - 5.00	1.5 - 44.0

Section 2: Brushless Electric Screwdrivers

HIOS® BL Series



- Brushless motor offers high performance and low maintenance, eliminates carbon dust for cleaner operation and provides longer tool life
- Internal torque adjustment
- All magnetic switches for long life and low maintenance
- All metal gears
- The screwdriver body uses an anti-static body case to prevent the generation of static electricity, suitable for the assembly of precision equipment and electronic parts
- Inline body style
- High speed rotation shortens the fastening time and improves work efficiency
- 4mm and 5mm drive type are a HIOS® drive (wing style)
- RoHS compliant and CE certified
- **OPC Models:** for use with screw counter (BLOP-STC3)
- **Power Supply:** T-45BL (except BL-7000 series), T-70BL, or PS-55 up to 1.7 N.m (15 lbf.in)

Model Number	ASG EU Number	Drive Type	Operation	Torque Range		Speed		Length		Weight	
				N.m	lbf.in	HI	LOW	mm	in.	g	lb
BL-2000	050036-CE	4mm	Lever	0.02 - 0.2	0.18 - 1.8	990	650	172	6.8	254	0.6
BL-2000-OPC	050037-CE	4mm	Lever	0.02 - 0.2	0.18 - 1.8	990	650	172	6.8	254	0.6
BL-5000	050038-CE	4mm	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	900	590	207	8.1	360	0.8
BL-5000X	050039-CE	1/4" Hex	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	900	590	207	8.1	360	0.8
BL-5000-ESD	051003-CE	4mm	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	900	590	207	8.1	360	0.8
BL-5000X-ESD	051000-CE	1/4" Hex	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	900	590	207	8.1	360	0.8
BL-5000SS-ESD	051004-CE	4mm	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	900	590	207	8.1	360	0.8
BL-5000XSS-ESD	051005-CE	1/4" Hex	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	900	590	207	8.1	360	0.8
BL-5000-OPC	050040-CE	4mm	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	900	590	207	8.1	360	0.8
BL-5000X-OPC	050041-CE	1/4" Hex	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	900	590	207	8.1	360	0.8
BL-5020	050042-CE	4mm	Lever/Push-to-Start	0.5 - 2.0	4.3 - 17.4	750	500	207	8.1	360	0.8
BL-5020X	050043-CE	1/4" Hex	Lever/Push-to-Start	0.5 - 2.0	4.3 - 17.4	750	500	207	8.1	360	0.8
BL-5020X-ESD	051006-CE	1/4" Hex	Lever/Push-to-Start	0.5 - 2.0	4.3 - 17.4	750	500	207	8.1	360	0.8
BL-5020-OPC	050044-CE	4mm	Lever/Push-to-Start	0.5 - 2.0	4.3 - 17.4	750	500	207	8.1	360	0.8
BL-5020X-OPC	050045-CE	1/4" Hex	Lever/Push-to-Start	0.5 - 2.0	4.3 - 17.4	750	500	207	8.1	360	0.8
BL-7000	050047-CE	5mm and 5HEX	Lever/Push-to-Start	0.7 - 2.8	6.2 - 24.8	960	630	239	9.4	640	1.4
BL-7000X	050048-CE	1/4" Hex	Lever/Push-to-Start	0.7 - 2.8	6.2 - 24.8	960	630	239	9.4	640	1.4
BL-7000-ESD	051007	4mm	Lever/Push-to-Start	0.7 - 2.8	6.2 - 24.8	960	630	239	9.4	640	1.4
BL-7000X-ESD	051001-CE	1/4" Hex	Lever/Push-to-Start	0.7 - 2.8	6.2 - 24.8	960	630	239	9.4	640	1.4
BL-7000-OPC	050049-CE	5mm & 5HEX	Lever/Push-to-Start	0.7 - 2.8	6.2 - 24.8	960	630	239	9.4	640	1.4
BL-7000X-OPC	050050-CE	1/4" Hex	Lever/Push-to-Start	0.7 - 2.8	6.2 - 24.8	960	630	239	9.4	640	1.4
BL-7000X-HT-ESD	051008-CE	1/4" Hex	Lever/Push-to-Start	0.7 - 3.5	6.2 - 30.97	700	500	239	9.4	640	1.4

Brushless Electric Screwdrivers



HIOS® BL-SB Series

- Automatic reverse after reaching pre-set torque
- Ideal for installing helically wound (Heli-Coil®) threaded inserts
- Excellent for chasing threads after painting or coating
- Chuck and chuck key included
- Threaded mandrels for helically wound (Heli-Coil®) threaded inserts available
- Inline body style
- RoHS compliant and CE certified
- Power Supply: T-70BL

Model Number	ASG EU Number	Operation	Torque Range		Speed		Length		Weight		Chuck Capacity
			N.m	lbf.in	HI	LOW	mm	in.	g	lb	
BL-5000SB	050046-CE	Lever	0.2 - 1.2	1.8 - 10.6	900	590	233	9.2	405	0.9	4mm
BL-7000SB	050051-CE	Lever	0.7 - 2.8	6.2 - 24.8	1500	1000	280	11.0	765	1.7	6.5mm



BLG-4000

BLG-5000

HIOS® BLG Series

- Brushless motor offers high performance and low maintenance, eliminates carbon dust for cleaner operation
- Economic design using proven features of the HIOS® BL and CL Series tools
- The screwdriver body uses an anti-static body case to prevent the generation of static electricity, suitable for the assembly of precision equipment and electronic parts
- Ergonomic construction, small and light weight
- Inline body style
- 4mm and 5mm drive type are a HIOS® drive (wing style)
- RoHS compliant and CE certified
- Power Supply: T-45BL, T-70BL, or PS-55 up to 1.7 N.m (15 lbf.in)

Model Number	ASG EU Number	Drive Type	Operation	Torque Range		Speed (RPM)		Length		Weight	
				N.m	lbf.in	HI	LOW	mm	in.	g	lb.
BLG-4000	050000-CE	4mm	Lever	0.1 - 0.55	0.9 - 4.9	1000	690	206	8.1	370	0.82
BLG-4000X	050001-CE	1/4" Hex	Lever	0.1 - 0.55	0.9 - 4.9	1000	690	206	8.1	370	0.82
BLG-5000	050010-CE	4mm	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	1000	690	235	9.3	425	0.9
BLG-5000X	050011-CE	1/4" Hex	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	1000	690	235	9.3	425	0.9
BLG-5000-18	050012-CE	5mm and 5HEX	Lever/Push-to-Start	0.5 - 1.5	4.4 - 13.4	1800	1200	235	9.3	425	0.9
BLG-5000X-18	050013-CE	1/4" Hex	Lever/Push-to-Start	0.5 - 1.5	4.4 - 13.4	1800	1200	235	9.3	425	0.9
BLG-5000-HT	050014-CE	5mm and 5HEX	Lever/Push-to-Start	0.5 - 2.0	4.4 - 17.7	730	—	235	9.3	425	0.9
BLG-5000X-HT	050015-CE	1/4" Hex	Lever/Push-to-Start	0.5 - 2.0	4.4 - 17.7	730	—	235	9.3	425	0.9

Brushless Electric Screwdrivers

HIOS® BLG OPC Series Compatible with Screw Counter



BLG-4000OPC



BLG-5000OPC

- Compatible with BLOP-STC3 counting power supply
- Brushless motor offers high performance and low maintenance, eliminates carbon dust for cleaner operation
- Economic design using proven features of the HIOS® BL and CL Series tools
- The screwdriver body uses an anti-static body case to prevent the generation of static electricity, suitable for the assembly of precision equipment and electronic parts
- High speed rotation shortens the fastening time and improves work efficiency
- Inline body style
- 4mm and 5mm drive type are a HIOS® drive (wing style)
- RoHS compliant and CE certified
- **Power Supply:** BLOP-STC3 (Power supply with screw counter)



BLG-5000-OPC with BLOP-STC3 Power Supply

Model Number	ASG EU Number	Drive Type	Operation	Torque Range		Speed (RPM)		Length		Weight	
				N.m	lbf.in	HI	LOW	mm	in.	g	lb.
BLG-4000-OPC	050002-CE	4mm	Lever	0.1 - 0.55	0.9 - 4.9	1000	690	206	8.1	370	0.82
BLG-4000X-OPC	050003-CE	1/4" Hex	Lever	0.1 - 0.55	0.9 - 4.9	1000	690	206	8.1	370	0.82
BLG-5000-OPC	050016-CE	4mm	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	1000	690	235	9.3	425	0.9
BLG-5000X-OPC	050017-CE	1/4" Hex	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	1000	690	235	9.3	425	0.9
BLG-5000-OPC18	050018-CE	5mm and 5HEX	Lever/Push-to-Start	0.5 - 1.5	4.4 - 13.4	1800	1200	235	9.3	425	0.9
BLG-5000X-OPC18	050019-CE	1/4" Hex	Lever/Push-to-Start	0.5 - 1.5	4.4 - 13.4	1800	1200	235	9.3	425	0.9
BLG-5000-OPCHT	050020-CE	5mm and 5HEX	Lever/Push-to-Start	0.5 - 2.0	4.4 - 17.7	730	—	235	9.3	425	0.9
BLG-5000X-OPCHT	050021-CE	1/4" Hex	Lever/Push-to-Start	0.5 - 2.0	4.4 - 17.7	730	—	235	9.3	425	0.9

Brushless Electric Screwdrivers



BLG-4000BC1

BLG-5000BC1

HIOS® BLG-BC1 Series with Built-In Screw Counter

- Brushless motor offers high performance and low maintenance, eliminates carbon dust for cleaner operation
- Economic design using proven features of the HIOS® BL and CL Series tools
- The screwdriver body uses an anti-static body case to prevent the generation of static electricity, suitable for the assembly of precision equipment and electronic parts
- 4mm and 5mm drive type are a HIOS® drive (wing style)
- Inline body style
- Integration of the screwdriver and the counter is optimal for space-saving operations
- Visual fastener count (up or down); including total count
- Detects and eliminates costly screw-fastening errors
- Detects cross threading, omission, unfinished rundowns and cycle complete
- Fastener accept and reject lights - Go/No Go
- RoHS compliant and CE certified
- **Power Supply:** T-45BL, T-70BL, or PS-55 up to 1.7 N.m (15 lbf.in)

Model Number	ASG EU Number	Drive Type	Operation	Torque Range		Speed (RPM)		Length		Weight	
				N.m	lbf.in	HI	LOW	mm	in.	g	lb.
BLG-4000BC1	050004-CE	4mm	Lever	0.1 - 0.55	0.9 - 4.9	1000	690	206	8.1	370	0.82
BLG-4000XBC1	050005-CE	1/4" Hex	Lever	0.1 - 0.55	0.9 - 4.9	1000	690	206	8.1	370	0.82
BLG-5000BC1	050022-CE	4mm	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	1000	690	235	9.3	425	0.9
BLG-5000XBC1	050023-CE	1/4" Hex	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	1000	690	235	9.3	425	0.9
BLG-5000BC1-18	050024-CE	5mm and 5HEX	Lever/Push-to-Start	0.5 - 1.5	4.4 - 13.4	1800	1200	235	9.3	425	0.9
BLG-5000XBC1-18	050025-CE	1/4" Hex	Lever/Push-to-Start	0.5 - 1.5	4.4 - 13.4	1800	1200	235	9.3	425	0.9
BLG-5000BC1-HT	050026-CE	5mm and 5HEX	Lever/Push-to-Start	0.5 - 2.0	4.4 - 17.7	730	—	235	9.3	425	0.9
BLG-5000XBC1-HT	050027-CE	1/4" Hex	Lever/Push-to-Start	0.5 - 2.0	4.4 - 17.7	730	—	235	9.3	425	0.9

Brushless Electric Screwdrivers



BLG-4000BC2

BLG-5000BC2

HIOS® BLG-BC2 Series with Built-In Screw Counter and Pulse Counter for Error Proofing

- Brushless motor offers high performance and low maintenance, eliminates carbon dust for cleaner operation
- Built-in screw counter and pulse counter
- Detects errors in screw fastening in real time with high accuracy by counting the pulse of the motor - complete error-proofing system built into the tool
- Identify installation errors and missing fasteners without relying on the experience of the operator
- 4mm and 5mm drive type are a HIOS® drive (wing style)
- Inline body style
- Easy, user friendly programming
- RoHS compliant and CE certified
- Power Supply: T-45BL, T-70BL, or PS-55 up to 1.7 N.m (15 lbf.in)

Model Number	ASG EU Number	Drive Type	Operation	Torque Range		Speed (RPM)		Length		Weight	
				N.m	lbf.in	HI	LOW	mm	in.	g	lb.
BLG-4000BC2	050006-CE	4mm	Lever	0.1 - 0.55	0.9 - 4.9	1000	690	206	8.1	370	0.82
BLG-4000XBC2	050007-CE	1/4" Hex	Lever	0.1 - 0.55	0.9 - 4.9	1000	690	206	8.1	370	0.82
BLG-5000BC2	050028-CE	4mm	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	1000	690	235	9.3	425	0.9
BLG-5000XBC2	050029-CE	1/4" Hex	Lever/Push-to-Start	0.2 - 1.2	1.8 - 10.6	1000	690	235	9.3	425	0.9
BLG-5000BC2-18	050030-CE	5mm and 5HEX	Lever/Push-to-Start	0.5 - 1.5	4.4 - 13.4	1800	1200	235	9.3	425	0.9
BLG-5000XBC2-18	050031-CE	1/4" Hex	Lever/Push-to-Start	0.5 - 1.5	4.4 - 13.4	1800	1200	235	9.3	425	0.9
BLG-5000BC2-HT	050032-CE	5mm and 5HEX	Lever/Push-to-Start	0.5 - 2.0	4.4 - 17.7	730	—	235	9.3	425	0.9
BLG-5000XBC2-HT	050033-CE	1/4" Hex	Lever/Push-to-Start	0.5 - 2.0	4.4 - 17.7	730	—	235	9.3	425	0.9

Section 3: Brush Type Electric Screwdrivers

HIOS® CL Series



CL-6500



CL-2000



CL-4000



CL-9000

- Brush type motor offers proven performance
- Inline body style
- External torque adjustment
- 4mm and 5mm drive type are a HIOS® drive (wing style)
- Tamper proof torque locking nuts available
- CE certified
- **Power Supply:** CLT-45 (except CL-7000), CLT-60, or PS-55 up to 1.7 N.m (15 lbf.in), CLT-80 (for CL-9000 Only)

Model Number	ASG EU Number	Drive Type	Operation	Torque Range		Speed (RPM)		Length		Weight	
				N.m	lbf.in	HI	LOW	mm	in.	g	lb.
CL-2000E	050052-CE	4mm	Lever	0.02 - 0.2	0.2 - 1.8	680	490	166	6.5	200	0.44
CL-4000NL	050057-CE	4mm	Lever	0.1 - 0.55	0.9 - 4.9	1000	690	197	7.8	380	0.84
CL-4000NLX	050055-CE	1/4" Hex	Lever	0.1 - 0.55	0.9 - 4.9	1000	690	197	7.8	380	0.84
CL-4000PSNL	050056-CE	4mm	Push-to-Start	0.1 - 0.55	0.9 - 4.9	1000	690	197	7.8	430	0.95
CL-4000PSNLX	050058-CE	1/4" Hex	Push-to-Start	0.1 - 0.55	0.9 - 4.9	1000	690	197	7.8	430	0.95
CL-6500NL	050059-CE	5mm	Lever	0.3 - 1.6	2.7 - 14.2	900	600	235	9.3	660	1.5
CL-6500NLX	050060-CE	1/4" Hex	Lever	0.3 - 1.6	2.7 - 14.2	900	600	235	9.3	660	1.5
CL-6500PSNL	050061-CE	5mm	Push-to-Start	0.3 - 1.6	2.7 - 14.2	900	600	236	9.3	660	1.5
CL-6500PSNLX	050062-CE	1/4" Hex	Push-to-Start	0.3 - 1.6	2.7 - 14.2	900	600	236	9.3	660	1.5
CL-7000NL	050063-CE	5mm	Lever	0.3 - 2.5	2.7 - 22.13	750	—	255	10.0	750	1.7
CL-7000NLX	050064-CE	1/4" Hex	Lever	0.3 - 2.5	2.7 - 22.13	750	—	255	10.0	750	1.7
CL-7000PSNL	050065-CE	5mm	Push-to-Start	0.3 - 2.5	2.7 - 22.13	750	—	256	10.1	750	1.7
CL-7000PSNLX	050066-CE	1/4" Hex	Push-to-Start	0.3 - 2.5	2.7 - 22.13	750	—	256	10.1	750	1.7
CL-9000NL	050067-CE	1/4" Hex	Push-to-Start	1.2 - 5.0	10.6 - 44.25	530	—	250	9.8	3010	6.6

Brush Type Electric Screwdrivers

HIOS® A Series



A-6500

- Brush type motor offers proven performance
- Inline body style
- Rare earth magnet motor for high performance
- External torque adjustment
- Tamper proof torque locking nuts available
- Powerful high speed motor improves productivity
- 4mm and 5mm drive type are a HIOS® drive (wing style)
- RoHS compliant and CE certified
- **Power Supply:** CLT-45 (except CL-6500), CLT-60, or PS-55 up to 1.7 N.m (15 lbf.in)

Model Number	ASG EU Number	Drive Type	Operation	Torque Range		Speed (RPM)		Length		Weight	
				N.m	lbf.in	HI	LOW	mm	in.	g	lb.
A-4500E	050078-CE	4mm	Lever	0.4 - 0.8	3.54 - 7.1	1700	1200	207	8.2	440	1.0
A-4500NLX	050079-CE	1/4" Hex	Lever	0.4 - 0.8	3.54 - 7.1	1700	1200	207	8.2	440	1.0
A-4500PS	050080-CE	4mm	Push-to-Start	0.4 - 0.8	3.54 - 7.1	1700	1200	207	8.2	490	1.1
A-4500PSX	050081-CE	1/4" Hex	Push-to-Start	0.4 - 0.8	3.54 - 7.1	1700	1200	207	8.2	490	1.1
A-5000E	050082-CE	4mm	Lever	0.4 - 1.2	3.54 - 10.6	1000	700	207	8.2	440	1.0
A-5000X	050083-CE	1/4" Hex	Lever	0.4 - 1.2	3.54 - 10.6	1000	700	207	8.2	440	1.0
A-5000PS	050084-CE	4mm	Push-to-Start	0.4 - 1.2	3.54 - 10.6	1000	700	207	8.2	490	1.1
A-5000PSX	050085-CE	1/4" Hex	Push-to-Start	0.4 - 1.2	3.54 - 10.6	1000	700	207	8.2	490	1.1
A-6500E	050086-CE	5mm	Lever	0.5 - 1.8	4.4 - 15.9	1700	—	235	9.3	660	1.5
A-6500X	050087-CE	1/4" Hex	Lever	0.5 - 1.8	4.4 - 15.9	1700	—	235	9.3	660	1.5
A-6500PS	050088-CE	5mm	Push-to-Start	0.5 - 1.8	4.4 - 15.9	1700	—	236	9.3	660	1.5
A-6500PSX	050089-CE	1/4" Hex	Push-to-Start	0.5 - 1.8	4.4 - 15.9	1700	—	236	9.3	660	1.5

Brush Type Electric Screwdrivers



SS-4000

HIOS® SS Series - Soft Stop Shock Absorbing Clutch Type

- Brush type motor offers proven performance
- Inline body style
- Soft stop shock absorbing clutch
- Full torque in reverse
- Ideal for assembling shock sensitive components such as hard drives
- Less torque reaction
- 4mm and 5mm drive type are a HIOS® drive (wing style)
- RoHS compliant and CE certified
- Power Supply: CLT-45 (except SS-7000), CLT-60, or PS-55 up to 1.7 N.m (15 lbf.in)

Model Number	ASG EU Number	Drive Type	Operation	Torque Range		Speed (RPM)		Length		Weight	
				N.m	lbf.in	HI	LOW	mm	in.	g	lb.
SS-2000E	050068-CE	4mm	Lever	0.02 - 0.2	0.18 - 1.8	680	490	166	6.5	200	0.4
SS-4000E	050070-CE	4mm	Lever	0.1 - 0.45	0.9 - 4.0	1000	690	197	7.8	400	0.9
SS-4000X	050071-CE	1/4" Hex	Lever	0.1 - 0.45	0.9 - 4.0	1000	690	197	7.8	400	0.9
SS-4000PS	050072-CE	4mm	Push-to-Start	0.1 - 0.45	0.9 - 4.0	1000	690	197	7.8	450	1.0
SS-4000PSX	050073-CE	1/4" Hex	Push-to-Start	0.1 - 0.45	0.9 - 4.0	1000	690	197	7.8	450	1.0
SS-6500E	050074-CE	5mm	Lever	0.25 - 1.3	2.2 - 11.5	900	600	235	9.3	660	1.5
SS-6500X	050075-CE	1/4" Hex	Lever	0.25 - 1.3	2.2 - 11.5	900	600	235	9.3	660	1.5
SS-7000E	050076-CE	5mm	Lever	0.3 - 2.0	2.7 - 17.7	750	—	255	10.0	750	1.7
SS-7000X	050077-CE	1/4" Hex	Lever	0.3 - 2.0	2.7 - 17.7	750	—	255	10.0	750	1.7

Section 4: Electric Screwdrivers for Automation



HIOS® BLF Series

- Simplified controls and increased durability
- Tools offer accurate torque to uniform fastening quality
- The power supply can run the tool in reverse and switch between two speed settings
- Power Supply: BLT-AY-61

Model Number	ASG EU Number	Drive Type	Torque Range		Screw Size		Speed (RPM)	
			N.m	lbf.in	Machine	Tapping	HI (11 Steps 20-30)	LOW (11 Steps 05-15)
BLF-2000	050103-CE	4mm	0.03 - 0.35	0.3 - 3.1	1.0 - 2.3	1.0 - 2.0	690-975	120-345
BLF-5000	050104-CE	5mm	0.3 - 1.0	2.65 - 8.85	2.0 - 3.0	2.0 - 2.6	660-940	115-320
BLF-5000X	050105-CE	1/4" Hex	0.3 - 1.0	2.65 - 8.85	2.0 - 3.0	2.0 - 2.6	660-940	115-320

Section 5: Power Supplies and Accessories

Plug Type



CLT-45



CLT-60



CLT-80

HIOS® CLT-45, CLT-60 and CLT-80

- **CLT-45:** Use with A, CL, and SS Series. Not compatible with A-6500, CL-7000, CL-9000, or SS-7000
- **CLT-60:** Use with A, CL, SS, and TL Series. Not compatible with CL-9000 or A-6500HT
- **CLT-80:** Use with CL-9000
- Fused input voltage, circuit breaker protected output voltage
- Switchable output voltage gives two-speed option
- CE certified, RoHS compliant, UL listed

Model Number	ASG EU Number	Input Voltage	Approximate Output Voltage	Dimensions
		VAC	VDC	mm
CLT-45-EU-HK	050110-CE	100-240	20/30	71.5 x 146 x 42.6
CLT-45-UK-SP	050111-CE	100-240	20/30	71.5 x 146 x 42.6
CLT-60-EU-HK	050112-CE	100-240	20/30	88 x 210 x 52
CLT-60-UK-SP	050113-CE	100-240	20/30	88 x 210 x 52
CLT-80-EU-HK	050114-CE	100-240	20/30	114 x 215 x 52
CLT-80-UK-SP	050115-CE	100-240	20/30	114 x 215 x 52

HIOS® T-45BL and T-70BL



T-45BL



T-70BL

- **T-45BL:** Use with BL, BLG, BLG-BC1, BLG-BC2 Series. Not compatible with BL-7000, BLG-5000-18, BLG-5000BC1-18, BLG-5000BC2-18
- **T-70BL:** Use with BL, BLG¹, BLG-BC1, BLG-BC2 Series
- ¹Please Note: Use only DC30V HI with BLG-18 and BLG-HT models. These models may not perform properly on LOW setting.
- Switchable output voltage provides two-speed option
- CE certified, RoHS compliant, UL listed

Model Number	ASG EU Number	Input Voltage	Approximate Output Voltage	Dimensions
		VAC	VDC	mm
T-45BL-EU-HK	050106-CE	100-240	20/30	71.5 x 146 x 42.6
T-45BL-UK-SP	050107-CE	100-240	20/30	71.5 x 146 x 42.6
T-70BL-EU-HK	050108-CE	100-240	20/30	88 x 210 x 52
T-70BL-UK-SP	050109-CE	100-240	20/30	88 x 210 x 52

Power Supplies and Accessories

HIOS® BLT-AY-61



BLT-AY-6A

- Use with BLF-2000, BLF-5000
- 2WS (2 speed) and REV (Reverse) capabilities standard
- Can be connected to external controls, such as PLC, to control the direction and speed of the driver

Model Number	ASG EU Number	Input Voltage	Approximate Output Voltage	Dimensions
		VAC	VDC	mm
BLT-AY61E-EUHK	050121-CE	100 - 240	5-15V/20-30V	202 x 143 x 87
BLT-AY61E-UKSP	050122-CE	100 - 240	5-15V/20-30V	202 x 143 x 87

HIOS® BLOP-STC3



BLOP-STC3

- Single tool control with screw counter
- Use with one BLG or BL-OPC Series driver. If used with BC1 or BC2 series, turn off counter function on tool.
- Switchable output voltage provides two-speed option
- Buzzer to indicate screw tightening complete and count timer function, counts number of times screw tightened from 1 to 99
- Control input, output, and error output
- CE Certified, RoHS compliant

Model Number	ASG EU Number	Input Voltage	Approximate Output Voltage	Dimensions
		VAC	VDC	mm
BLOP-STC-3EUHK	050116-CE	100 - 240	20/31	127 x 208 x 76
BLOP-STC-3UKSP	050117-CE	100 - 240	20/31	127 x 208 x 76

HIOS® CLT-70STC3



CLT-70STC3

- Single tool control with screw counter
- Use with A, CL, and SS Series. Not compatible with CL-9000 series
- Auto reset function
- Buzzer to indicate screw tightening complete and count timer function, counts number of times screw tightened from 1 to 99
- No reverse count timer
- CE certified, RoHS compliant

Model Number	ASG EU Number	Input Voltage	Approximate Output Voltage	Dimensions
		VAC	VDC	mm
CLT-70STC3-EUHK	050118-CE	100 - 240	20/31	127 x 208 x 76
CLT-70STC3-UKSP	050119-CE	100 - 240	20/31	127 x 208 x 76

| Power Supplies and Accessories



ASG #65700

ASG PS-55

- **PS-55:** Use with A, BL, BLG, CL, SS, TL Series tools up to 15 lbf.in. Not compatible with A-6500, A-6500HT, CL-7000, CL-7000HT or CL-9000 Series
- Standard clutch signal output, can be used with counters or PLCs
- Switchable output voltage gives two-speed option
- Circuit breaker protected
- Optional signal cable available, ASG #65705
- CE certified

Model Number	ASG Number	Input Voltage	Approximate Output Voltage	Dimensions
		VAC	VDC	mm
PS-55	65700-INTL	110 - 230	20/30	180 x 89 x 102



Global Support

Our footprint covers the globe!

ASG employs a team of technical experts to provide support, repair, calibration and preventative maintenance services. We welcome the opportunity to provide assistance by telephone or online chat Monday through Friday, 8 a.m. to 5 p.m. (U.S. Eastern Time) excluding holidays.

ASG maintains subsidiaries in Shanghai, China and Mumbai, India, and sales offices in Mexico and Europe to provide direct support to our international customers. We work together with our global Field Sales Representative and Distributor Network to help customers standardize their assembly equipment and processes around the world.

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