

X-PAQ[™] Products: SD2500 and EH2

Products and Solutions for Assembly







We are personally

committed to understanding and exceeding our customers' requirements. We are committed to continuously improving our products and processes.

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

About ASG

ASG, Division of Jergens, Inc. is an ISO 9001:2008 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 9001:2008 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.



| About X-PAQ[™]

ASG introduced the X-PAQTM transducerized, torque/angle control brushless DC tools in 2010. The focus of this product line is to offer an affordable precision torque control and data management system with intuitive, user friendly programming. This coupled with ASG's reputation for being "easy to do business with" and a strong capable distribution network has made the X-PAQTM very successful.

Precision Fastening Product Group Controlled Performance



The ASG Precision Fastening product group fills the needs of manufacturers requiring tight tolerances, high levels of error-proofing and traceability. Our line of transducerized DC electric torque control screwdrivers and nutrunners work with X-PAQ[™] controllers for applications covering a torque range from 1 to 309.8 lbf.in (0.1 to 35 N.m) across the full range of products.



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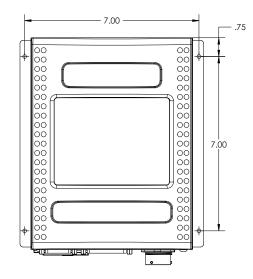


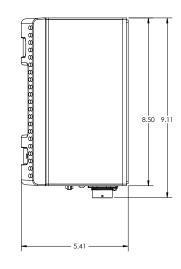
Section 1: X-PAQ[™] Controller for SD2500 Series Tools

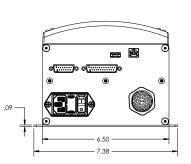
X-PAQ[™] SD2500 controller features a large, color touch screen for intuitive setup, eliminating the need for external software. A variety of integration options are possible.

- Torque and angle control monitoring with color coded results
- 32 task storage keys for multiple assembly setups with 8 available parameters within each task
- Easily import/export task files with USB drive
- Multi-bolt programmable fastening
- Programmable I/O for process control
- Parameter status bar
- Data collection and rundown graphing
- Automatic tool recognition
- Selectable tool triggering and trigger sensitivity control
- Password protection for 3 users
- Universal power supply (international power cords available)

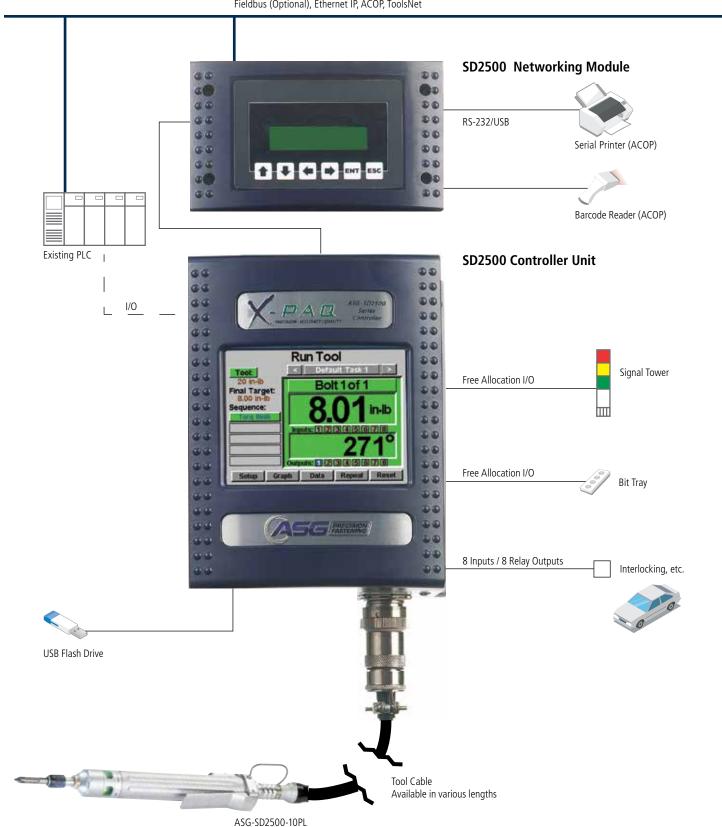
ASG-CT2500 Controller







Dimensional drawings in inches



Fieldbus (Optional), Ethernet IP, ACOP, ToolsNet



| X-PAQ[™] Controller for SD2500 Series Tools

Controller Bottom Panel





SD2500 Controller

Model Number	Description	Weight			
Model Number	Description	lb.	kg		
ASG-CT2500	X-PAQ [™] Controller for SD2500 Series Tools	9	4.1		
	*	Concult ASC for	additional ontions		

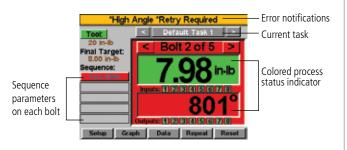
* Consult ASG for additional options

SD2500 Networking Modules

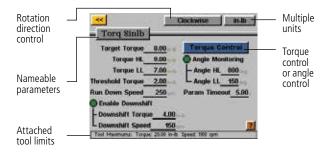
	N.S.	Model Number	Ethernet IP	ACOP	ToolsNet	RF Wireless
	80	ASG-NW2500	•	•	•	
······	ASG-NW2500-RFT				•	

Program Screens and Menus

Run Tool Screen



Torque Rundown Parameter



X-PAQ[™] Controller for SD2500 Series Tools

Task Menu

Select Task or Select Task or Press and Held for Options							
PCB Assembly	Antenna Secure						
Top Housing	Rotation Test						
Bottom Housing	Power Module						
Model A1265x	Crankshaft						
Model B2856+	Regulator Block						
Fan Assembly	Feed Roller						
<1 of 3 Export 1	<1 of 3 Export Task Files 3 of 3 >						

32 available tasks

Task Setup Select Task or Press and Hold for Options							
Robot	Basic Rundown						
Screw Feeder	Thread Engage						
Asg Autofeed	Joint Condition						
Task 4	Multi Torque						
Task 5	Forced Failure						
Task 6	Task 12						

- Nameable tasks for easy selection and recognition
- Task file export to USB

Inputs

	# Require Current
Default Task-3	
and the second s	
Remate Reset	a gent a
Remote Hall	
Remote Start	
Reverse	7 - 1
	1 - 1

Assignable inputs for each command.

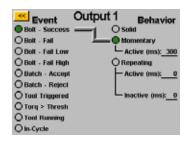
channels
 Binary combination compatible

No dedicated

8 available 24 VDC

opto-isolated inputs

Outputs



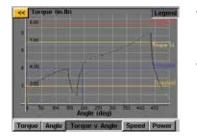
8 available mechanical dry-contact relay outputs

Programmable outputs

•

Most output durations may be set. Trigger and threshold outputs are only available in solid mode

Graphing Data



- On screen graphing capability for joint evaluation
- Graph data points export to USB possible during rundown

Rundown Data

UTHIT!								
9.02.29	2	101057	8.00 In-Ib-	9.00	0.01	8.95	NOPE .	· Dad
20221	192	10,040	8.00 11-0-	0.00	803	8.83	4080	2.844
9.02.00	20	00559	8.00 k-b	0.00	1.7.99	07.99	1624	C Ind
800.48	14.1	191558	8.00.0-8	0.08	1.2.98	1.7.98	301	17,846
2014	513	10:557	6.00 in-b	0.05	0.05	8.85	201	Good
9.08.01	100	101058	.830.is-b	0.00	8.05	8.82	-305	Good
940559	5.	相1555	. 810 in-th	80.0	1.99	3.88	-125	Good
9:00:57	946	10554	8.90 W.B.	0.00	8.03	8.83	209	Good
9.00.55	330	10053	0.00 e+b	0.00	8.01	8.03	188	Geod
200:53	121	102552	8.00 in-b	0.08	8.01	0.00	205	Good
900.51	1.10	10050	830 m-b	0.00	7.38	7.58	192 20	Good
9:00:49	3	MID30	110 in-b	0.00	7.90	T.98	- 28	Good
300.46	940	10048	830.4+4	0.00	2.02	8.03	304	6005
200.42	140	10540	8.00 in-b	0.00	10.01	0.00	287	Good
9,0021	133	101547	E 20 4+ 8	0.00	8.02	0.02	294	17.444
200.07	21	10:546	8.00 in-to	0.00	7.90	7.99	000	Good
800.13	11	101545	\$20 in Br	0.08	2.98	7.96	4.70	dired.

Last 100 rundown data viewable on screen with larger data sample downloadable to USB in .csv format

Password Protection

	Password	
Supervisor	Entered	
Team Leader	Enterod	
Master	Active	Delete Use

- 3 programmable access passwords to prevent unintended access by production line operators
- All passwords have the same access, the controller is either locked or unlocked
- Reset button on 'Run Tool' screen may even be enabled or disabled when the controller is locked



SD2500 Screwdrivers and Nutrunners

Sleek, compact and durable, the SD2500 is the ultimate lightweight tool for transducerized precision fastening.





SD2500 screwdrivers and nutrunners are premium quality transducerized DC electric tools. Inline screwdrivers are available with push, lever or remote start operation and 1/4 in. hex drive. Fixture mount models with threaded end are available in each torque range for automated or robotic applications. Right angle nutrunners are available with either 1/4 in. hex or 1/4 in. square drive.

- Transducerized torque and angle control with compact, lightweight, brushless motor for unparalleled clean, quiet and accurate operation
- Sleek aluminum body with high intensity LED tool indicator lights
- Foam grip included is standard with all inline models to provide ergonomic comfort for the operator





Easy robotic integration with a vacuum pick-up option.

Purchase a System or Configure Your Own

ASG offers the X-PAQ[™] SD2500 as both pre-packaged systems (in the U.S., Canada, and Mexico only) and individually sold items.

Systems are available with each tool as follows:

- Complete X-PAQ[™] System: includes X-PAQ[™] controller, SD2500 tool and 10ft (3m) heavy weight strain relief tool cable. To determine the model number for a complete system: add '-SY' to the SD2500 tool model number. Example: ASG-SD2500-10PL-SY
- X-PAQ[™] System without Tool Cable: includes X-PAQ[™] controller and SD2500 tool. To determine the model number for a system without the tool cable: add '-SY-NC' to the SD2500 tool model number. Customers may then order their preferred cable separately.
 Example: ASG-SD2500-10PL-SY-NC

| SD2500 Tool Specifications

Model Number	Driver Type	Torque	Range	Len	gth	Wei	ight	Max.	Drive Size
Model Number	Driver type	lbf.in	N.m	in.	mm	lb.	kg	RPM	Drive Size
ASG-SD2500-10PL	ţt.	1 - 10	0.1 - 1.1	9.5	240	1.00	0.46	1700	1/4 Hex
ASG-SD2500-10PS	ĺ†	1 - 10	0.1 - 1.1	9.5	240	1.00	0.46	1700	1/4 Hex
ASG-SD2500-10FX	<u></u> †	1 - 10	0.1 - 1.1	9.5	240	1.00	0.46	1700	1/4 Hex
ASG-SD2500-10RP		1 - 10	0.1 - 1.1	10.4	264	1.25	0.57	1700	1/4 Square
ASG-SD2500-10RQ		1 - 10	0.1 - 1.1	10.4	264	1.25	0.57	1700	1/4 Hex*
ASG-SD2500-20PL	ţt.	2 - 20	0.2 - 2.3	9.5	240	1.00	0.46	1100	1/4 Hex
ASG-SD2500-20PS	1	2 - 20	0.2 - 2.3	9.5	240	1.00	0.46	1100	1/4 Hex
ASG-SD2500-20FX	<u>†</u> †	2 - 20	0.2 - 2.3	9.5	240	1.00	0.46	1100	1/4 Hex
ASG-SD2500-20RP		2 - 20	0.2 - 2.3	10.4	264	1.25	0.57	1100	1/4 Square
ASG-SD2500-20RQ		2 - 20	0.2 - 2.3	10.4	264	1.25	0.57	1100	1/4 Hex*
ASG-SD2500-35PL	ţt.	3.5 - 35	0.4 - 3.9	9.5	240	1.00	0.45	800	1/4 Hex
ASG-SD2500-35PS	ļ†	3.5 - 35	0.4 - 3.9	9.5	240	1.00	0.45	800	1/4 Hex
ASG-SD2500-35FX	<u></u> ↓	3.5 - 35	0.4 - 3.9	9.5	240	1.00	0.45	800	1/4 Hex
ASG-SD2500-35RP		3.5 - 35	0.4 - 3.9	10.4	264	1.25	0.57	800	1/4 Square
ASG-SD2500-35RQ		3.5 - 35	0.4 - 3.9	10.4	264	1.25	0.57	800	1/4 Hex*
ASG-SD2500-50PL	ţ۱	5 - 50	0.6 - 5.6	9.7	246	1.10	0.49	500	1/4 Hex
ASG-SD2500-50PS	Ļ	5 - 50	0.6 - 5.6	9.7	246	1.10	0.49	500	1/4 Hex
ASG-SD2500-50FX	Ť	5 - 50	0.6 - 5.6	9.7	246	1.10	0.49	500	1/4 Hex
ASG-SD2500-50RP		5 - 50	0.6 - 5.6	10.7	271	1.35	0.61	500	1/4 Square
ASG-SD2500-50RQ		5 - 50	0.6 - 5.6	10.7	271	1.35	0.61	500	1/4 Hex*

Legend				
ļ1	İ ↑	<u> </u> +		* 1/4 in. hex insert bits
Inline Push / Lever Start Combination	Inline Push to Start	Inline Fixture Mount (Push to Start)	90° Angle Lever Start	recommended

All tools remote start capable

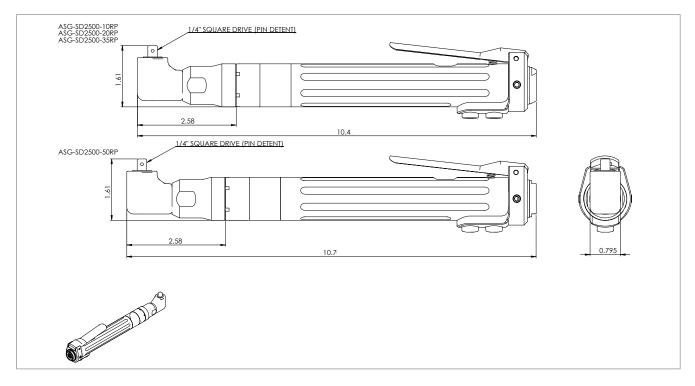
For applications requiring less than 2 lbf.in (0.2 N.m) torque, please consult ASG



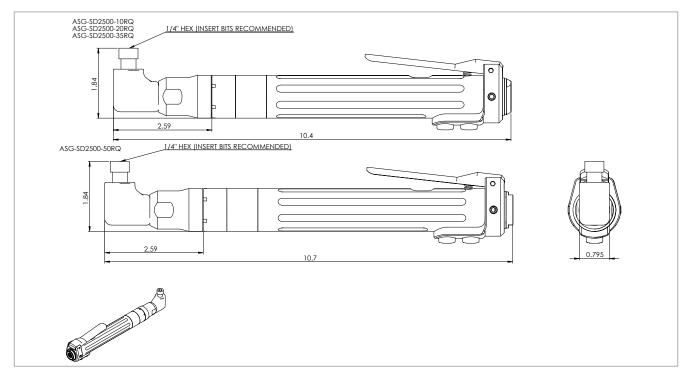


| Right Angle Dimensions

SD2500 RP

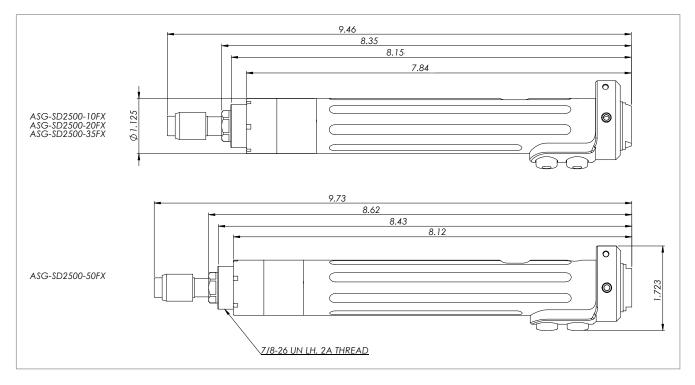


SD2500 RQ

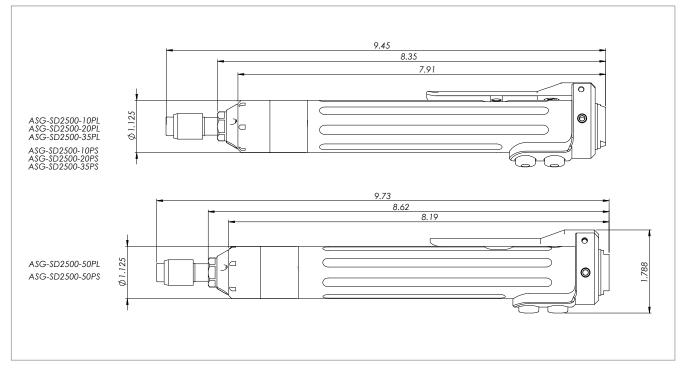


Dimensional drawings in inches

SD2500 FX



SD2500 PL and SD2500 PS



Dimensional drawings in inches



| SD2500 Tool Cables and Accessories

Tool Cables

Tool cables are available in lengths 01 - 50 ft. (0.3 - 15.2 m) for connecting between the X-PAQTM controller and SD2500 tools. Extension cables are available in lengths to 70 ft. (21.3 m). Maximum total length with tool and extension cables combined is 90 ft. (27.4 m).





ASG-CB2500 Heavy Weight Strain Relief (HW) 10 models

ASG-CB2500 ESD Safe (ESD) 5 models



ASG-CB2500 Right Angle (RA) 10 models



ASG-CB2500 Extension Cable (EX) 5 models



ASG-CB2500 Right Angle Extension (RAEX) 1 model

Beginning Model Number	Add Length Code (ft)								Add Type Code	Popular Model Number		
ASG-CB2500-	05	10	15	20	25	30	35	40	45	50	HW	ASG-CB2500-10HW
	05	10	15	20	25						ESD	ASG-CB2500-10ESD
	05	10	15	20	25	30	25	40	45	50	RA	ASG-CB2500-05RA
	10	20	30	50	70						EX	ASG-CB2500-20EX
	01										RAEX	ASG-CB2500-01RAEX

Tool and Controller Accessories

FX Tool Mounting Plates



ASG-AC2500-MPSF Single Flange

Non-Lever Tool



ASG-AC2500-MPJR Double Flange with External Thread

Lever Tool



ASG-AC2500-MPDF Double Flange

Hangers



ASG-AC2500-SC Suspension Clip (Pistol Grip and Right Angle Tools)

For use with ASG Linear Arm



ASG-AC2500-SB Suspension Bail (Inline Tools)



Articulating Arm

6F0882 (shown installed)

SD2500 Tool Cables and Accessories







Spindle Unit Kit

ASG-AC2500-SP

Standard



ASG-AC2500-SP-4MM Optional Accessory – For use with: 4mm winged JIS Style Bits — Set screws for locking bits into place.

ASG-AC2500-SPEX Optional Accessory – For use with: 1/4" Hex Power Bits

LED Signal Towers

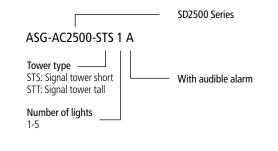
Consult ASG for your specific application.

- Choose from 20 models
- Tall or short body style
- With or without audible alarm
- 1, 2, 3, 4, or 5 Color LEDs



ASG-AC2500-STS1A

How to Read the Model Numbers



Controller Mounts



ASG-AC2500-CM For use with 65003 and 65006



ASG-AC2500-VESA For use with ASG monitor arms

Bit Trays



ASG-AC2500-BT4 4 position



ASG-AC2500-BT6 6 position

International Power Cords

Consult ASG for additional country options.



China ASG-CT2500-PCI



France/Belgium ASG-CT2500-PCF



India ASG-CT2500-PCD

I/O Cables



Input: ASG-AC2500-IC20

Output: ASG-AC2500-OC20 (shown)



Integrating an X-PAQ[™] with an Ergonomic Premium Torque Arm

Integrate ASG Automation with ASG X-PAQ[™] Precision Fastening to help control manufacturing processes by ensuring that proper torque, angle and sequence is achieved.

• Provides feedback to disable or enable the hand-held tool based upon preprogrammed characteristics for proper fastener tightening sequence



Complete Error-Proofing

- Ensures correct fastener sequencing
- Accurate and repeatable torque
- Maintains tool alignment with fasteners
- Increases Quality
- Reduce or eliminate rework and warranties

Intuitive and User Friendly HMI

- Visual Sequence Guide using CAD drawings or assembly photos
- Stores up to 500 assembly sequences
- Digital I/O allows interfacing with tool controllers and line control

Torque Reaction Arm

- Standard and positioning
- Multiple arm configurations, including Telescoping, Folding and Linear Torque Arms
- Torque reaction capabilities up to 220 N.m (162 lbf.ft)

Premium Torque Arm and the ASG Nav-P 4.0 System

For more information on ASG's premium torque arms and the ASG Nav-P 4.0 System, visit www.asg-jergens.com to view products and the ASG Premium Torque Arm catalog. It is located under the Automation product group.



SD2500 Protection and Investment Plans

X-Guard Protection Plan



Additional Months	6 Months	12 Month	18 Months	24 Months
Additional Cycles	500,000	1,000,000	1,500,000	2,000,000
X-Guard Model Number	ASG-XG2500-6SY	ASG-XG2500-12SY	ASG-XG2500-18SY	SG-XG2500-24SY
X-PAQ [™] Controller				
Firmware updates*	•	•	•	•
Replacement or repair of parts required to restore functionality	•	•	•	•
SD2500 Screwdrivers				
Recalibration	1	1	2	2
Preventative maintenance	—	1	1	2
Replacement or repair of parts required to restore functionality**	•	•	•	•
CB2500 Screwdriver Cables				
Replacement or repair of parts required to restore functionality***	•	•	•	•

Additional Months	6 Months	12 Months	18 Months	24 Months
X-Guard Model Number	ASG-XG2500-6NW	ASG-XG2500-12NW	ASG-XG2500-18NW	ASG-XG2500-24NW
X-PAQ [™] Networking Modules				
Firmware updates*	•	•	•	•
Replacement or repair of parts required to restore functionality	•	•	•	•

* Within original controller firmware level

** Consumable items such as suspension bails, bits, sockets and mounting brackets are not covered *** ASG reserves the right to deem a cable damaged by abuse due to misuse or improper cable management and deny warranty claims

X-Lease Financing

ASG offers flexible financing for X-PAQ[™] systems and products, including X-GUARD[™] extended protection and maintenance plans covering X-PAQ[™] systems.

Opt for a monthly lease investment and you can:

- Acquire equipment without a large cash outlay
- Avoid affecting lines of credit
- Match payments to cash flow
- X-GUARD[™] protection plans can be built into your financing plan

For more information, please contact ASG.



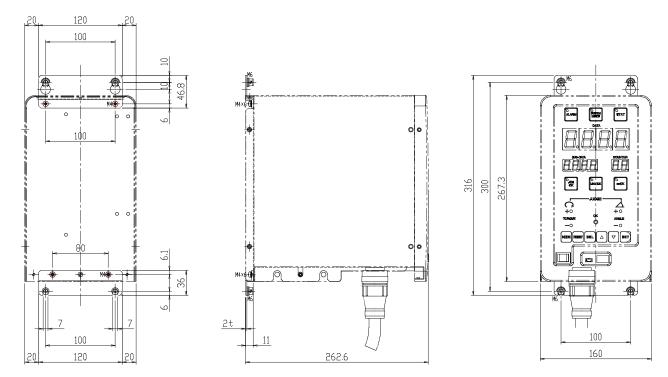


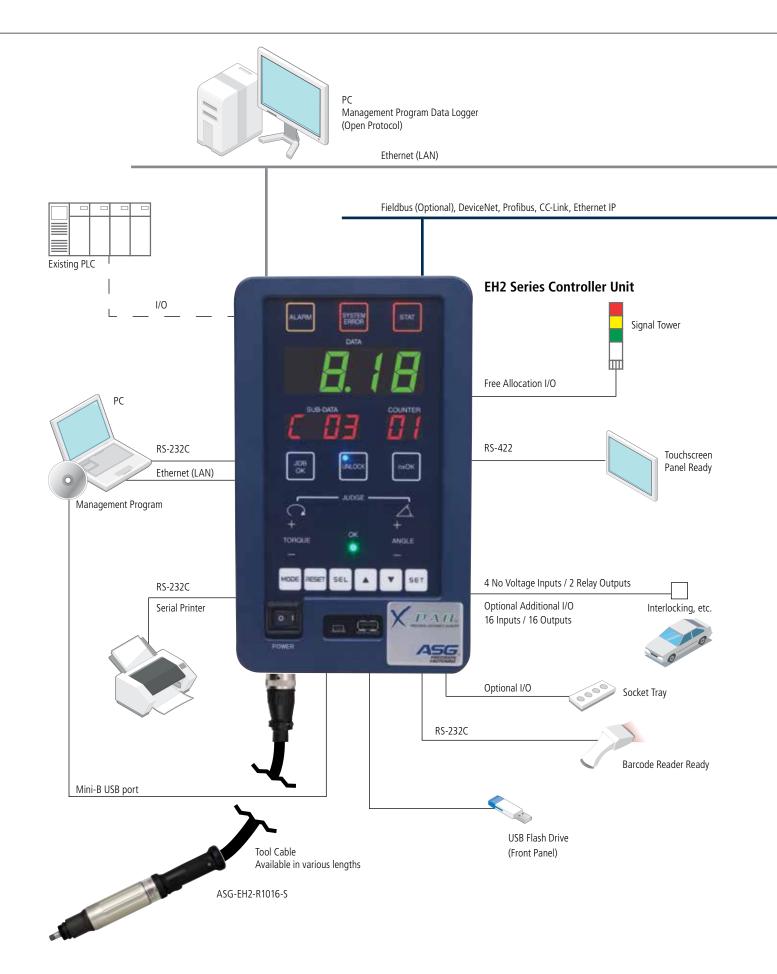
Section 2: X-PAQ[™] Controller for EH2 Series Tools

X-PAQ[™] EH2 controllers are equipped with simplified PLC functionality. A wide variety of integration options are possible.

- Operates in direct drive or pulse fastening mode with automatic switch from direct mode to pulse fastening at a selectable torque level
- 99 fastening channel settings
- 99 assembly job settings
- Data storage up to 33,000 records (free allocation)
- Torque curve history (last 20 OK / 10 NOK records internally or continuous history via PC)
- Multi-spindle synchronization for up to 10 tools
- Process monitoring
- Automatic over shoot reduction
- Quick set-up
- Built-in PLC functionality with customizable ladder logic capability
- Management software for controlling, monitoring, reporting and maintenance via PC

ASG-EH2-HT40-000XXX Controllers

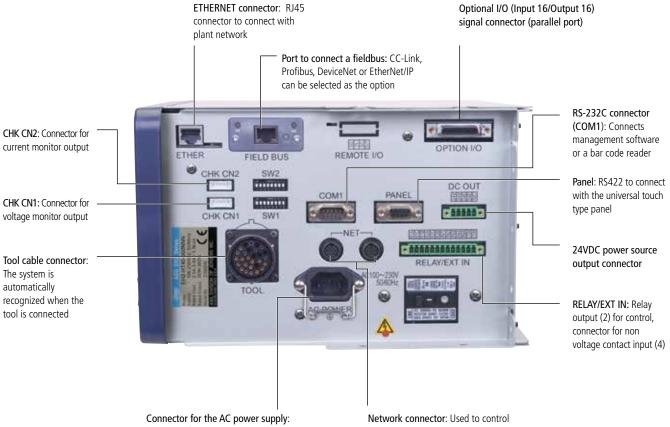






X-PAQ[™] Controller for EH2 Series Tools

Controller Bottom Panel



Connector for 100-230 VAC 50/60 Hz power supply cables

the multi-spindles unit

EH2 Series Controller

Model Number	DeviceNet	Profibus	CC-Link	Ethernet IP	Ontional I/O	Wei	ight
Model Number	Devicemet	Prolibus	CC-LINK	Ethernet IP	Optional I/O	lb.	kg
ASG-EH2-HT40-000NNN						21	9.5
ASG-EH2-HT40-000NNP					•	21	9.5
ASG-EH2-HT40-000NDN	•					21	9.5
ASG-EH2-HT40-000NPN		•				21	9.5
ASG-EH2-HT40-000NCN			•			21	9.5
ASG-EH2-HT40-000NEN				•		21	9.5
ASG-EH2-HT40-000NDP	•				•	21	9.5
ASG-EH2-HT40-000NPP		•			•	21	9.5
ASG-EH2-HT40-000NCP			•		•	21	9.5
ASG-EH2-HT40-000NEP				•	•	21	9.5

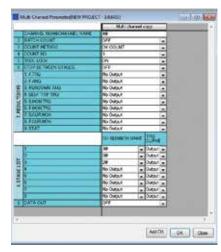
Management software is included with each controller purchase

| EH2 Management Software

Application Programming

Using the management software, parameters can be loaded from the controller, written into the controller, stored and printed. A copy function is also provided to help with quick start-ups.

Multi Channel Parameters



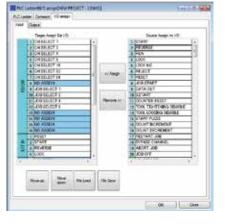
Program Parameters

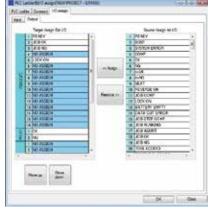


Fastening Jobs

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	CALOR MARK			100	6.6		14
	CONTRACT.	1044			1.2		50
B SDL B SDL	TORA LIDE			- Fer			14
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PLC Ladder and I/O Allocation

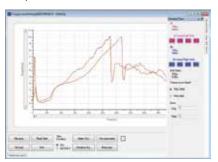




History Function

Fastening results, torque curves and system error data recorded in the controller can be loaded, displayed and printed with the software. Data is stored in .csv file format and can easily be imported into spreadsheets.

Torque Curve Data





EH2 Management Software

(Compatible OS) Windows 2000, SP4/XP, SP2/VISTA and later.

Monitoring Function

The latest fastening results and torque curve data stored in the controller can be displayed and printed. The data can be automatically or manually stored in .csv file format.

Fastening Results Displayed

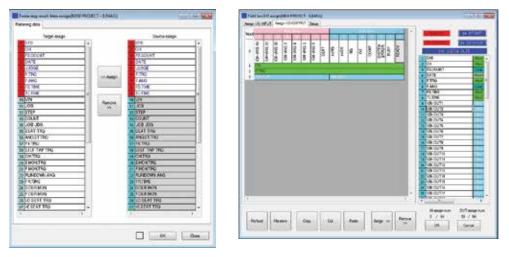
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Allocation Function

Allocation of virtual I/O items in PIO (IN), PIO (OUT), RELAY/EXTIN, allocation of items added to the fastening result, and allocation of data including the related data in Fieldbus I/O units are possible through the management software.

Allocation of Fastening Result Items

Fieldbus I/O Allocation



Three Types of Interface Connections are Available (RS-232C, USB and ETHERNET): A RS-232C and USB port are available for quick and easy connection with a single system. An ETHERNET port is available to connect to multiple systems locally or through a network.

Verifying Function: The verify function is available to compare a saved program file with the program file currently running in the system. This allows for added file control and change tracking.

Maintenance Function: The maintenance function allows I/O monitoring, output signal forcing, torque and angle monitoring as well as displaying various tool data.

Access Limitation Function: To prevent the unauthorized use with the access control using password.

EH2 Screwdrivers and Nutrunners

Transducerized DC Electric tools with both continuous and discontinuous pulse fastening technology.



ASG-EH2-R1016-S

ASG-EH2-R0005-SC

ASG-EH2-R0010-SC

EH2 screwdrivers and nutrunners are premium quality transducerized DC electric tools featuring pulse fastening technology. Models are available with different grips, operation and drive sizes.

- Transducerized torque and angle control with lightweight brushless resolver motor for unparalleled clean, quiet and accurate operation
- Customizable 7-color high intensity LED indicator lights
- Sleek aluminum body with break resistant handle, inner shell cable connector and ergonomic grip for ultimate durability and operator comfort
- Easily accessible forward/reverse selection switch with reset function
- Nutrunners feature high tensile, lightweight titanium alloy angle head, reducing operator strain and providing excellent durability



ASG-EH2-R0005-SL ASG-EH2-R0010-SL



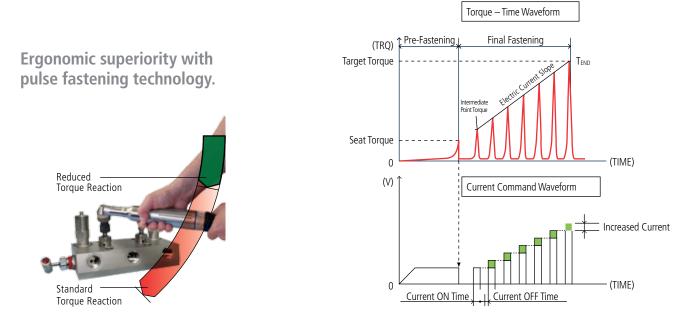
ASG-EH2-R1016-P ASG-EH2-R1020-P



ASG-EH2-R0005-P ASG-EH2-R0010-P

Pulse Fastening Technology

EH2 Series tools are equipped with pulse fastening technology, which vastly reduces the reaction typically associated with higher torque tools. It reduces operator fatigue during operation and helps protect against repetitive stress injury and is particularly useful with hard joint fastening.



🔺 WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov | www.asg-jergens.com | Phone: (888) 486-6163 | Fax: (216) 481-4519 🛛 21



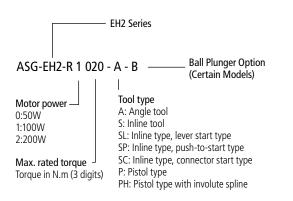
| EH2 Tool Specifications

Model Number		Torque Ra	ange	Len	gth	We	ight	Max.	Discus
Model Number	Driver Type	lbf.in	N.m	in.	mm	lb.	kg	RPM	Drive Size
ASG-EH2-R0005-P		8.8 - 44.3	1 - 5	7.9	202	2.4	1.1	1694	3/8" Square
ASG-EH2-R0005-SL	ļ	8.8 - 44.3	1 - 5	11.7	296	2.6	1.2	1694	1/4" Hex
ASG-EH2-R0005-SP	¶↓	8.8 - 44.3	1 - 5	11.7	296	2.6	1.2	1694	1/4" Hex
ASG-EH2-R0005-SC	R	8.8 - 44.3	1 - 5	9.0	228	2.4	1.1	1694	3/8" Square
ASG-EH2-R0010-P		17.7 - 88.5	2 - 10	7.9	202	2.4	1.1	942	3/8" Square
ASG-EH2-R0010-SL	ļ	17.7 - 88.5	2 - 10	11.7	296	2.6	1.2	942	1/4" Hex
ASG-EH2-R0010-SP	¶↓	17.7 - 88.5	2 - 10	11.7	296	2.6	1.2	942	1/4" Hex
ASG-EH2-R0010-SC	R	17.7 - 88.5	2 - 10	9.0	228	2.4	1.1	942	3/8" Square
ASG-EH2-R1016-P		28.3 - 141.6	3.2 - 16	8.7	220	3.1	1.4	1247	3/8" Square
ASG-EH2-R1016-PH*		28.3 - 141.6	3.2 - 16	8.7	220	3.1	1.4	1247	3/8" Square
ASG-EH2-R1016-S*	1	28.3 - 141.6	3.2 - 16	13.5	344	2.9	1.3	1247	3/8" Square
ASG-EH2-R1020-A		35.4 - 177.0	4 -20	15.2	386	3.1	1.4	1027	3/8" Square
ASG-EH2-R1020-P		35.4 - 177.0	4 -20	8.7	220	3.1	1.4	1053	3/8" Square
ASG-EH2-R1020-PH*		35.4 - 177.0	4 -20	8.7	220	3.1	1.4	1053	3/8" Square
ASG-EH2-R1020-S*	4	35.4 - 177.0	4 -20	13.5	344	2.9	1.3	1053	3/8" Square
ASG-EH2-R1030-A		53.1 - 265.5	6 - 30	15.5	393	3.3	1.5	702	3/8" Square
ASG-EH2-R2035-S	1	61.9 - 309.8	7 - 35	16.0	406	4.4	2.0	1169	3/8" Square

Legend					
	or	↓ ↓	R	•	* Built-in Spline for Use
Pistol Grip Trigger Start	Inline Lever Start	Inline Push to Start	Inline Remote Start Only	90° Angle Trigger Start	with Reaction Plates

All tools remote start capable

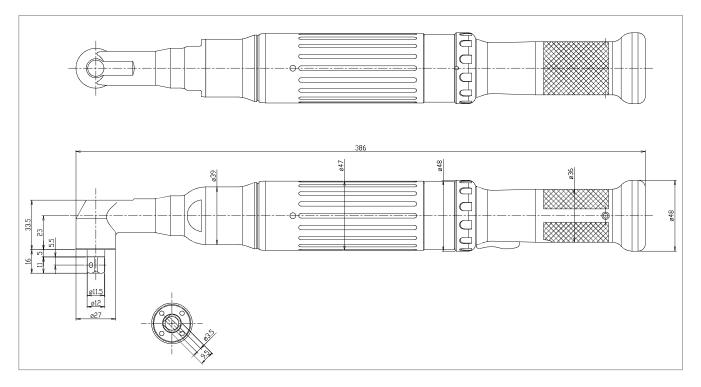
How to Read the Model Numbers



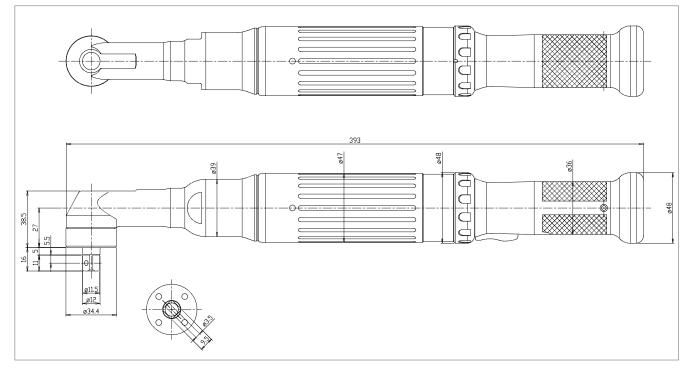


| Right Angle Dimensions

ASG-EH2-R1020-A

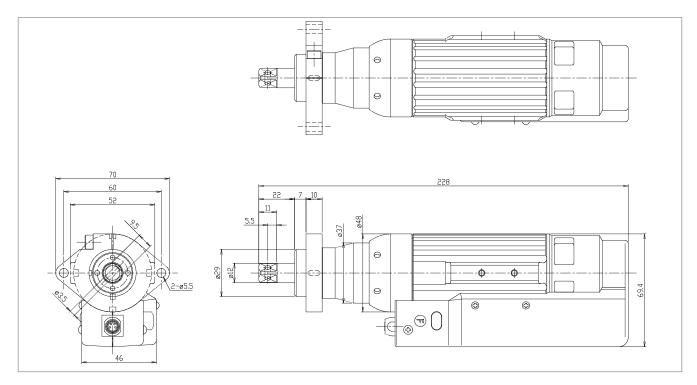


ASG-EH2-R1030-A

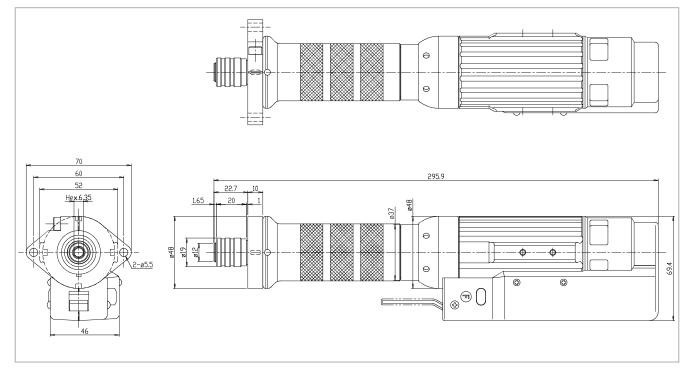




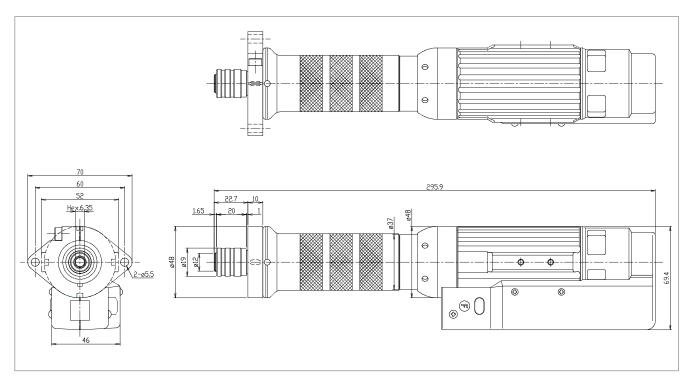
ASG-EH2-R0005-SC and ASG-EH2-R0010-SC



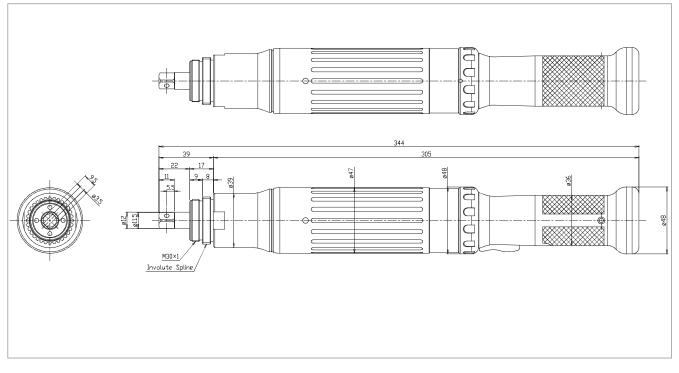
ASG-EH2-R0005-SL and ASG-EH2-R0010-SL



ASG-EH2-R0005-SP and ASG-EH2-R0010-SP

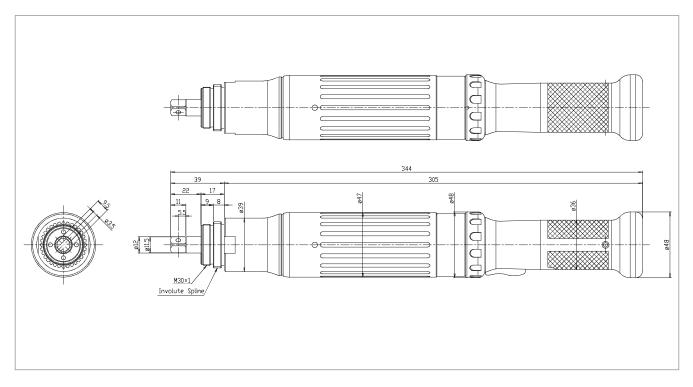


ASG-EH2-R1016-S

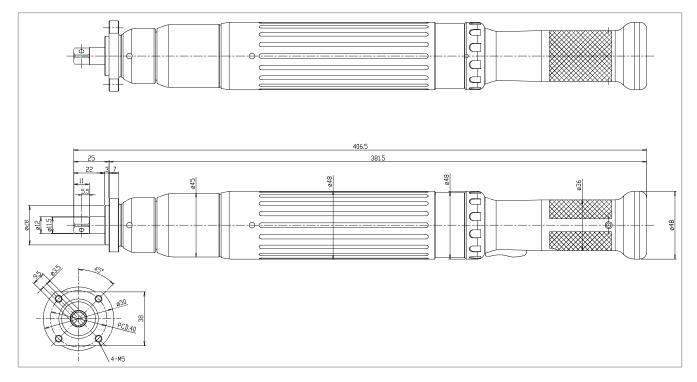




ASG-EH2-R1020-S

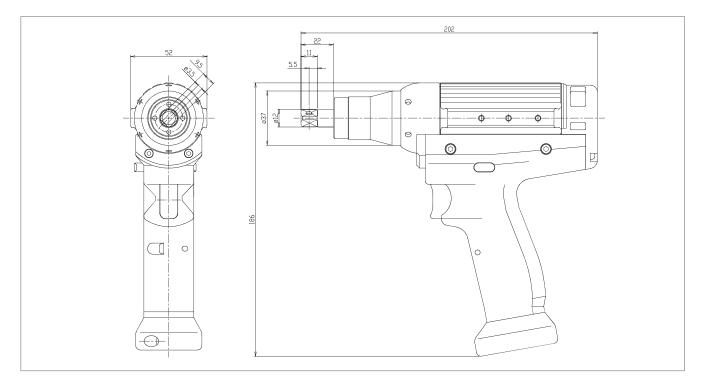


ASG-EH2-R2035-S

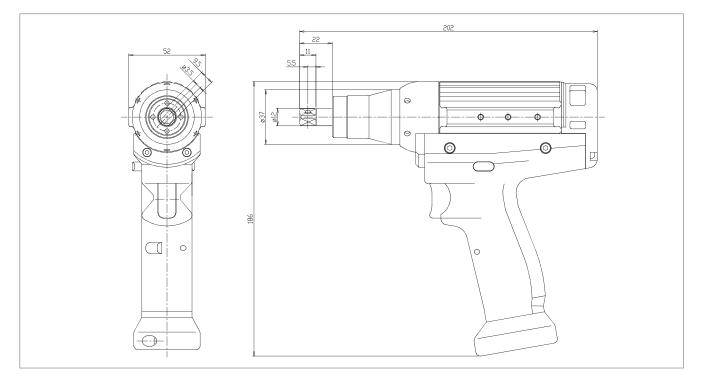


| Pistol Grip Dimensions

ASG-EH2-R0005-P



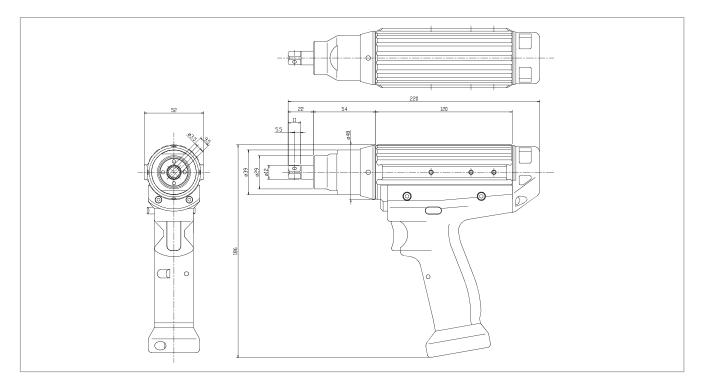
ASG-EH2-R0010-P



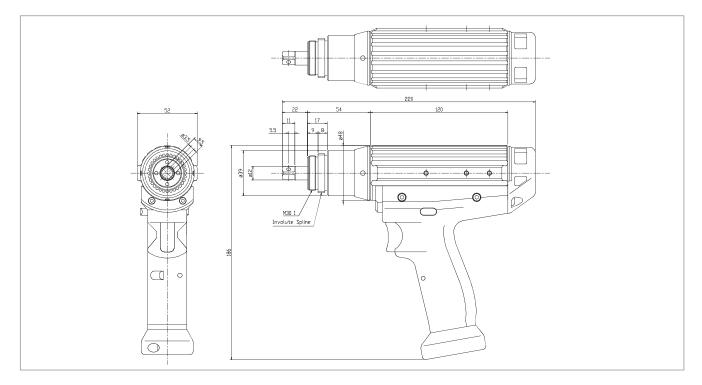


| Pistol Grip Dimensions

ASG-EH2-R1016-P and ASG-EH2-R1020-P



ASG-EH2-R1016-PH and ASG-EH2-R1020-PH



| EH2 Tool Cables and Accessories



Tool Cables

Sturdy, double-shell construction, straight tool cables are available in different lengths from 5 - 30 m (16.4 - 98.4 ft.) for connecting between the X-PAQ[™] controller and EH2 Series tools. Retracting tool cable in 3 m (9.8 ft.) length and extension cables are also available.

ASG-EH2-CVC Coiled





ASG-EH2-CVE Extension

Beginning Model Number	Add Type Code	Add Length Code (m)					Popular Model Number	
	CVC	03						ASG-EH2-CVC03-SS
ASG-EH2-	CVS	05	10	15	20	25	30	ASG-EH2-CVS05-SS
	CVE	05	10	15				ASG-EH2-CVE10-SS

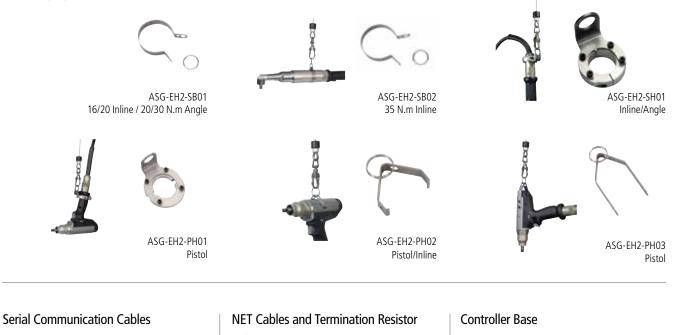
Tool and Controller Accessories





| EH2 Tool Cables and Accessories

Tool Hanging Fixtures





Available in 3 lengths ASG-ENRZ-CVSR-015 (1.5m) ASG-ENRZ-CVSR-050 (5.0m) ASG-ENZR-CVSR-100 (10m)



Available in 3 lengths ASG-EH2-CVNK-005 (0.5m) ASG-EH2-CVNK-010 (1m) ASG-EH2-CVNK-030 (3m)

> Termination Resistor ASG-EH2-CNST



ASG-EH2-CF02

I/0 Connectors



ASG-EH2-FCN13-RL (13 wire)



ASG-EH2-FCN5-DC (5 wire)



ASG-ENRZ-CN36-EX (Optional I/O)

Protective Covers



ASG-EH2-PP02 16-20 N.m Pistol ASG-EH2-PP03 05-10 N.m Pistol

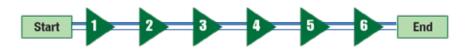


ASG-EH2-RP01 20 N.m Angle ASG-EH2-RP02 30 N.m Angle

| EH2 Tracer Arm for Error Proofing



The Tracer Arm for the EH2 vastly improves operating efficiency and ensures error-proof assemblies. It is equipped to detect the position of the EH2 tool and compare it to preprogrammed position data. The operator must perform the fastening sequence properly or the tool is disabled. Fastening data is stored and can be exported for qualification and analysis.



Tracer Arm

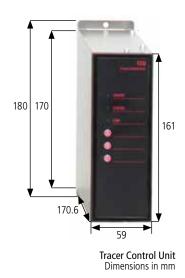
Model Number	ASG-EH2-TA0505-R-AT1 ASG-EH2-TA0505-R-AT2 ASG-EH2-TA0505-R-AT3					
Compatible Tool Models	ASG-EH2-R0005-SL/SP/SC ASG-EH2-R1016-S ASG-EH2-R0010-SL/SP/SC ASG-EH2-R1020-S ASG-EH2-R20					
Applied Torque	1.0 - 35.0 N.m (8.8-309.8 lbf.in)					
Arm Length	500mm x 500mm (19.7in x 19.7 in)					
Arm Body Weight	5.5kg (12.1 lb)					
Repetitive Position Accuracy	±1mm (0.04 in.)					
Recommended Work Area (WxDxH)	1000mm x 700mm x 330mm (39.3in x 27.5in x12.9in)					

NET Cable

Model Number	ASG-EH2-CVNK-005 ASG-EH2-CVNK-010 ASG-EH2-CVNK-0					
Cable Length	0.5m (1.6 ft)	3m (9.8ft)				
Termination Resistor (2 Required)	ASG-EH2-CNST					

Resolver Cable

Model Number	ASG-EH2-CVR3-010	ASG-EH2-CVR3-050	Model Number	ASG-EH2-SAFM500	ASG-EH2-SAWM500
Cable Length	1m (3.3 ft)	5m (16.4 ft)	Function	Install on floor/ceiling	Install on a wall



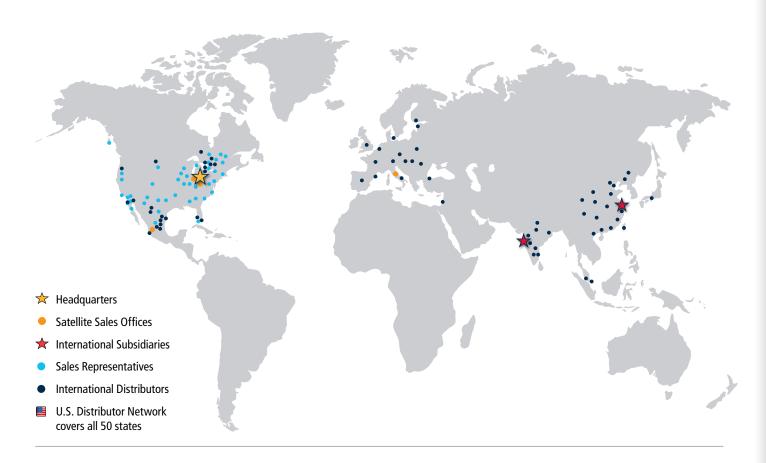
Tracer Control Unit

Model Number	ASG-EH2-TCU-N
Power Supply	DC24V±10%
Assignable Work Pieces	99 Types
Assignable Fastener Positions	63 Positions Per Type

Arm Mounting Bracket

Optional Accessories

ASG-EH2-TCU-BRKT	TCU Mounting Bracket
ASG-NS100-A00-1	Rotating switch grip for 5/10 N.m Inline tools
ASG-NS100-B00-1	Rotating switch grip for 16/20 N.m Inline tools
ASG-NS100-C00-1	Rotating switch grip for 35 N.m Inline tool
ASG-NA923-A01	Rotating switch grip mount for reaction spline
ASG-EH2-SCAN	2-D Barcode Scanner



Our footprint covers the globe!

Global Support

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 a sales office in Guadalajara, Mexico and Italy 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.



August 2017

Products and Solutions for Assembly

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