



X-PAQ[™] Products: SD2500 and EH2

Products and Solutions for Assembly







| About ASG

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.

ASG, Division of Jergens, Inc. is an ISO 9001:2008 certified manufacturer, distributor and service center for products and solutions focused around threaded assembly. Since the 1970s, we have developed a first-class reputation unrivaled in the industry offering a wide range of world class products.

We offer a wide selection of ASG brand products including torque control, error-proofing and process control products, digital calibration equipment, X-PAQ™ precision fastening systems, production aides and assembly workstation accessories. ASG is proud to be a long-time U.S. Premier Distributor of HIOS® electric torque control screwdrivers and accessories, and the exclusive North American Master Distributor of Fiam® air tools.

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-PAQTM 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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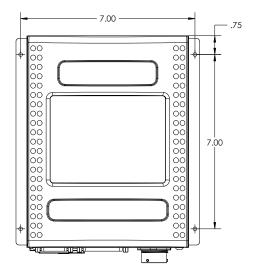


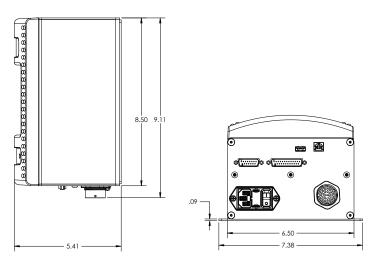
| Section 1: X-PAQ™ Controller for SD2500 Series Tools

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.

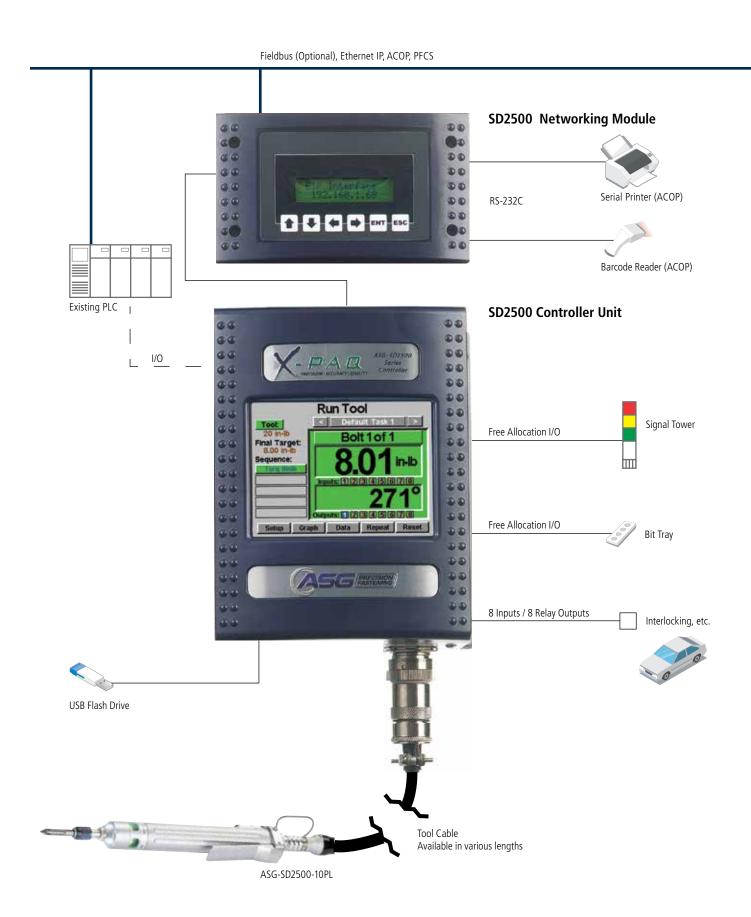
- Torque and angle control monitoring with color coded results
- 32 task storage keys for multiple assembly setups with 8 available parameters within each task
- Easily import/export task files with USB drive
- Multi-bolt programmable fastening
- Programmable I/O for process control
- Parameter status 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





| X-PAQ™ Controller for SD2500 Series Tools

Controller Bottom Panel



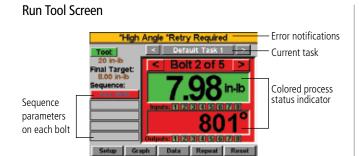
SD2500 Controller								
M. J. D. J. J.	Description	We	ight					
Model Number	Description	lb.	kg					
ASG-CT2500	X-PAQ [™] Controller for SD2500 Series Tools	9	4.1					

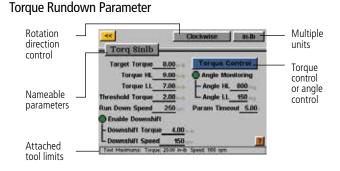
^{*} Consult ASG for additional options



SD2500 Networking Modules									
Model Number	Ethernet IP	ACOP	RF Wireless						
ASG-NW2500-EIP	•								
ASG-NW2500-ACOP		•							
ASG-NW2500-RFT			•						

Program Screens and Menus





| X-PAQ™ Controller for SD2500 Series Tools

Task Menu

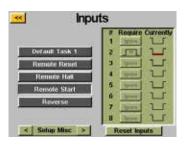


32 available tasks



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

Inputs



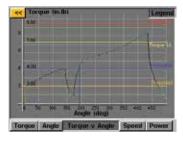
- 8 available 24 VDC opto-isolated inputs
- Assignable inputs for each command. No dedicated channels
- Binary combination compatible

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



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

Password Protection



- 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







Purchase a System or Configure Your Own ASC offers the V RAOTM SD2500 as both are packaged systems (in the U.S. Canada)

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



- 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-PAQTM System without Tool Cable: includes X-PAQTM 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



Easy robotic integration with a vacuum pick-up option.

| SD2500 Tool Specifications

Madal Number	Model Number Driver Type		Torque Range		Length		ght	Max.	Drive Size
Model Number	Driver Type	lbf.in	N.m	in.	mm	lb.	kg	RPM	Drive Size
ASG-SD2500-10PL	 \psi	1 - 10	0.1 - 1.1	9.5	240	1.00	0.46	1700	1/4 Hex
ASG-SD2500-10PS	İ t	1 - 10	0.1 - 1.1	9.5	240	1.00	0.46	1700	1/4 Hex
ASG-SD2500-10FX	ŤŤ	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	 \tau	2 - 20	0.2 - 2.3	9.5	240	1.00	0.46	1100	1/4 Hex
ASG-SD2500-20PS	İ †	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	I /t	3.5 - 35	0.4 - 3.9	9.5	240	1.00	0.45	800	1/4 Hex
ASG-SD2500-35PS	İ t	3.5 - 35	0.4 - 3.9	9.5	240	1.00	0.45	800	1/4 Hex
ASG-SD2500-35FX	ŤŤ	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	 	5 - 50	0.6 - 5.6	9.7	246	1.10	0.49	500	1/4 Hex
ASG-SD2500-50PS	[t	5 - 50	0.6 - 5.6	9.7	246	1.10	0.49	500	1/4 Hex
ASG-SD2500-50FX	<u> </u> †	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				
Inline Push / Lever Start Combination	↓↓ Inline Push to Start	☐↓↓ Inline Fixture Mount (Push to Start)	90° Angle Lever Start	* 1/4 in. hex insert bits recommended

All tools remote start capable

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

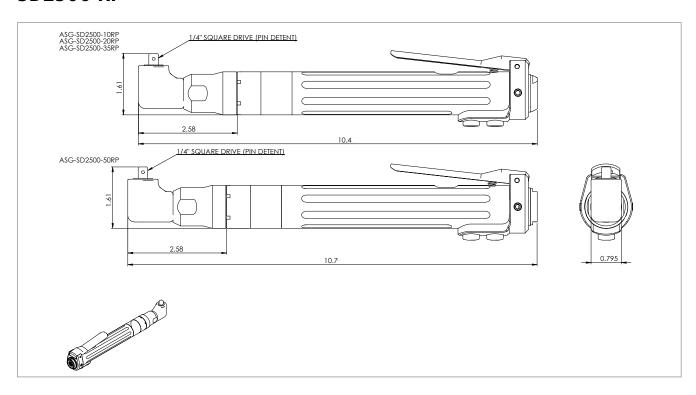




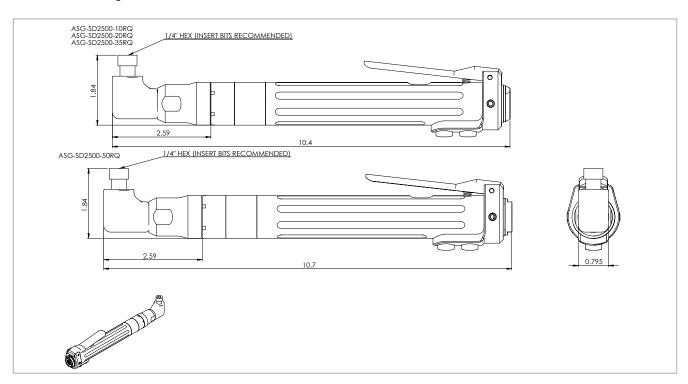


| Right Angle Dimensions

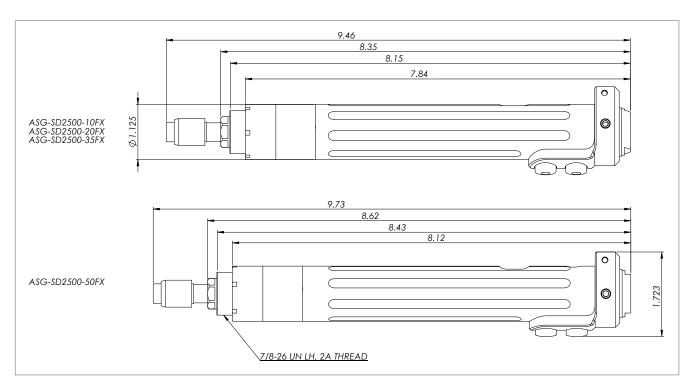
SD2500 RP



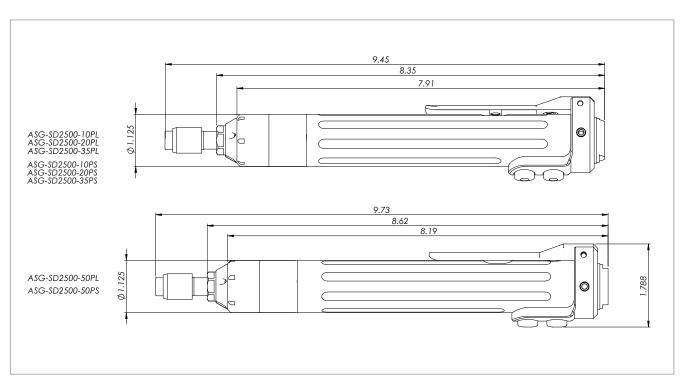
SD2500 RQ



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	
	05	10	15	20	25	30	35	40	45	50	HW	ASG-CB2500-10HW
	05	10	15	20	25						ESD	ASG-CB2500-10ESD
ASG-CB2500-	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



ASG-AC2500-MPJR Double Flange with External Thread



ASG-AC2500-MPDF Double Flange

Hangers



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



ASG-AC2500-SB Suspension Bail (Inline Tools)

Grips



ASG-AC2500-FGNC Non-Lever Tool

ASG-AC2500-FG Lever Tool

Torque Arm Mounts



ASG-AC2500-TMA For use with ASG Articulating Arm



ASG-AC2500-TML For use with ASG Linear Arm

| SD2500 Tool Cables and Accessories

Vacuum Pick-up Kits

* Brass finder sold separately.







Spindle Unit Kit





Extended

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

SD2500 Series
ASG-AC2500-STS 1 A

Tower type _____ STS: Signal tower short STT: Signal tower tall

Number of lights _

With audible alarm

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)



| SD2500 Sequence Recognition System

Every SR system must be specified according to custom application requirements.



The sequence recognition system is the solution for applications such as those requiring uniform compression of all components within your product assembly. The ASG SRS ensures that the operator installs fasteners in a specific pre-programmed sequence.

- Integrate with the ASG X-PAQ[™] Precision Fastening System to help control manufacturing processes by ensuring that proper torque, sequence and revolution tolerance is achieved
- Provides feedback to disable or enable the handheld tool based upon preprogrammed characteristics for proper fastener tightening sequence

Model Number	Typical SRS Components
ASG-SRS-SY	Standard Infra Red Vision Camera & Software, Basic PLC Program, I/O Cable, Ethernet Cable, 24VDC Power Supply, PLC & Power Supply Enclosure

Key Features and Information

Infrared Camera Technology: The IR camera detects the position of the tool, monitors fastener tightening sequence and minimizes the effects of workstation lighting on the assembly process.

Multiple Assembly Sequence Storage Capability: Provides outstanding process flexibility for multiple assemblies at a single workstation (high mix/low volume).

Tight Center to Center Distances: Allows the ability to distinguish between fasteners with 0.25 in. (6.35 mm) center to center distances and greater. *Subject to application analysis

Workstation Controls Integration Capability: Allows further process control using workstation clamping, signal lights, bar code readers, etc.

Single Sensor Mounted High above Operator Work Envelope: Similar products incorporate several sensors mounted along the torque arm. The SRS single sensor mounted outside the operator work envelope eliminates the risk of accidental damage and wear and tear due to exposure to operator movement.

Example: Incorporating the SRS in Assembly

Visit our website, www.asg-jergens.com and submit your application analysis to begin the quote process.



Step 1: Part is inserted into workstation fixture (clamps close).

Step 2: Fasteners are tightened to 1 N.m at 4 locations.

Step 3: Batch complete signals finished part (clamps open).

| 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.



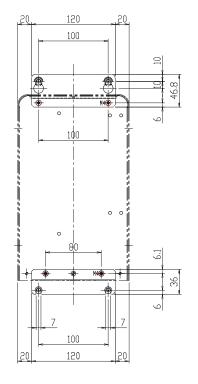


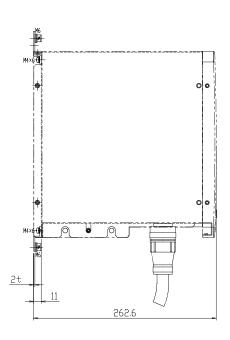
| Section 2: X-PAQ™ Controller for EH2 Series Tools

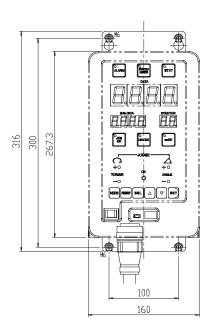
X-PAQ™ EH2 controllers are equipped with simplified PLC functionality. A wide variety of integration options are possible.

- 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

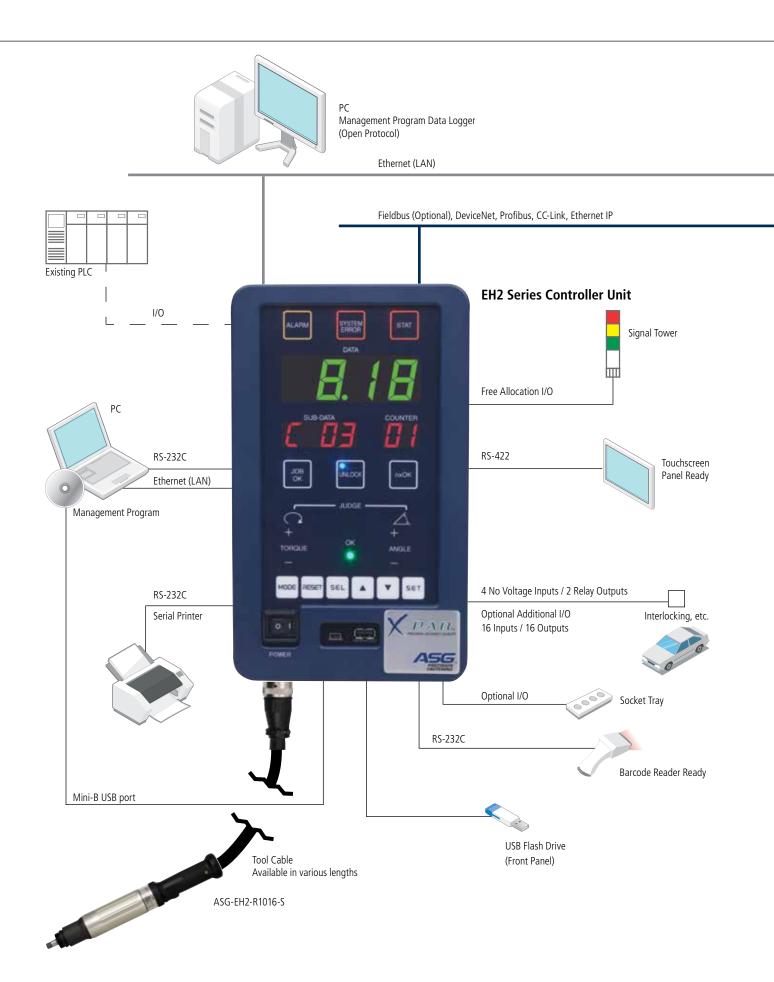
ASG-EH2-HT40-000XXX Controllers







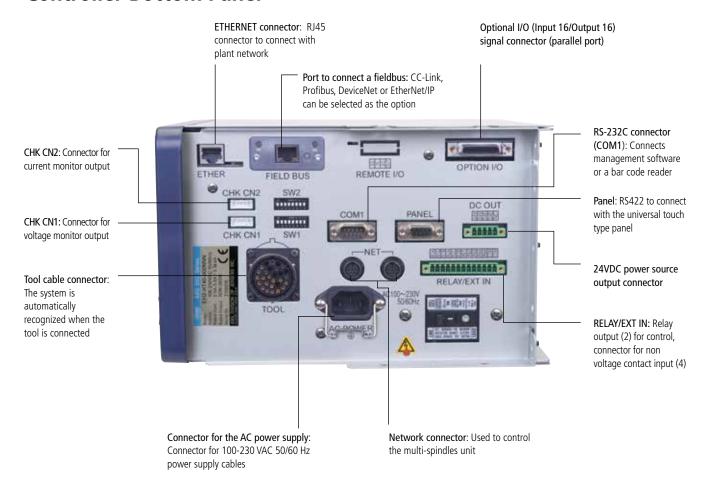
Dimensional drawings in mm





| X-PAQ™ Controller for EH2 Series Tools

Controller Bottom Panel



EH2 Series Controllers										
Model Number	DeviceNet	Profibus	CC-Link	Ethernet IP	Optional I/O	Weight				
Model Number	Devicence	TTOTIBUS	CC LIIIK	Luicinetii	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			

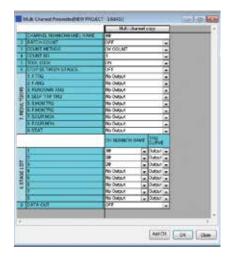
Management software is included with each controller purchase

| EH2 Management Software

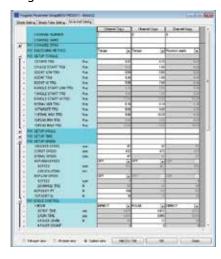
Application Programming

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



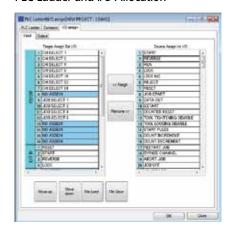
Program Parameters

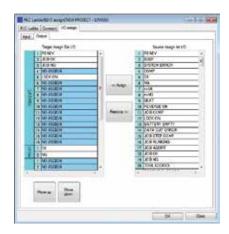


Fastening Jobs



PLC Ladder and I/O Allocation

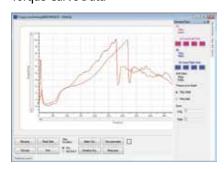




History Function

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





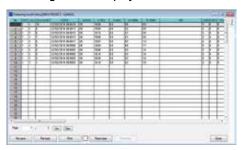
EH2 Management Software

(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.

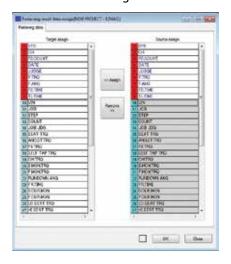
Fastening Results Displayed



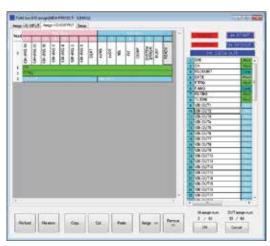
Allocation Function

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.

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-SC ASG-EH2-R0010-SC



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



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

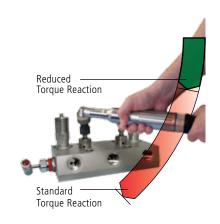


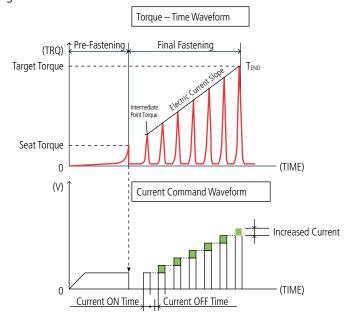
ASG-EH2-R0005-P ASG-EH2-R0010-P

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.

Ergonomic superiority with pulse fastening technology.





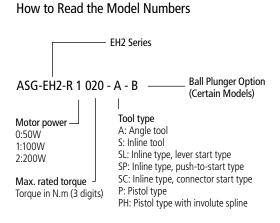


| EH2 Tool Specifications

	2	Torque Ra	ange	Len	gth	We	ight	Max.	5 : c:
Model Number	Driver Type	lbf.in	N.m	in.	mm	lb.	kg	RPM	Drive Size
ASG-EH2-R0005-P	7	8.8 - 44.3	1 - 5	7.9	202	2.4	1.1	1694	3/8" Square
ASG-EH2-R0005-SL	,	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	7	17.7 - 88.5	2 - 10	7.9	202	2.4	1.1	942	3/8" Square
ASG-EH2-R0010-SL	,	17.7 - 88.5	2 - 10	11.7	296	2.6	1.2	942	1/4" Hex
ASG-EH2-R0010-SP	₫ţ	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	7	28.3 - 141.6	3.2 - 16	8.7	220	3.1	1.4	1247	3/8" Square
ASG-EH2-R1016-PH*	7	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	7	35.4 - 177.0	4 -20	8.7	220	3.1	1.4	1053	3/8" Square
ASG-EH2-R1020-PH*	-7	35.4 - 177.0	4 -20	8.7	220	3.1	1.4	1053	3/8" Square
ASG-EH2-R1020-S*	1	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					
Pistol Grip Trigger Start	or 1	↓↓ Inline Push to Start	R Inline Remote Start Only	90° Angle Trigger Start	* Built-in Spline for Use with Reaction Plates

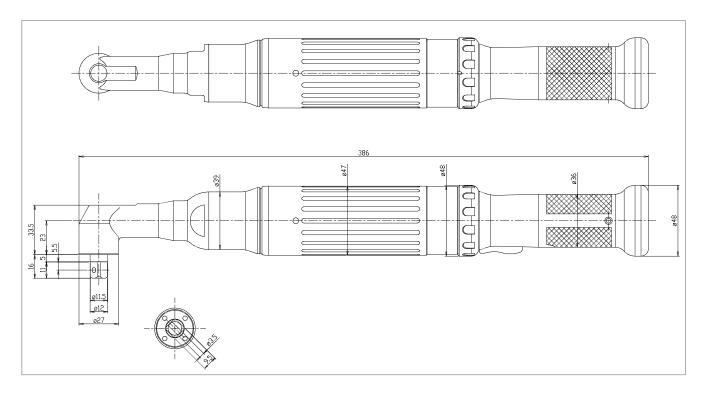
All tools remote start capable



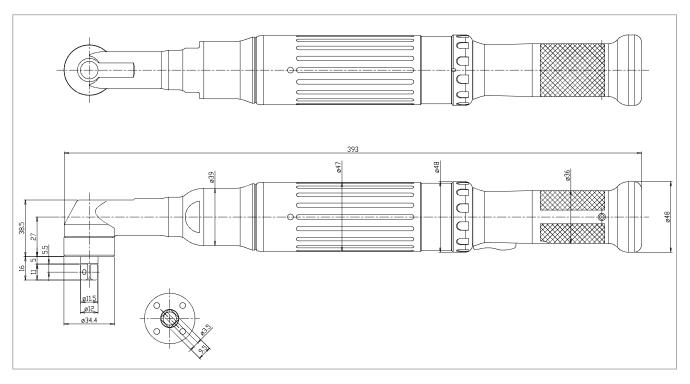


| Right Angle Dimensions

ASG-EH2-R1020-A

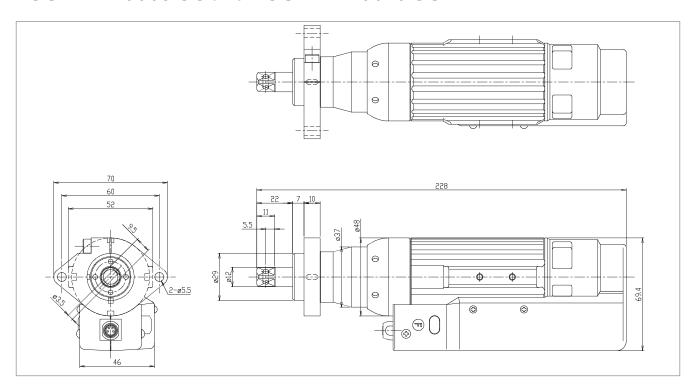


ASG-EH2-R1030-A

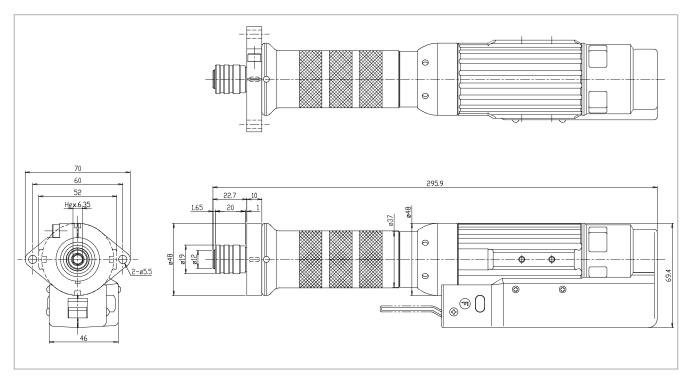




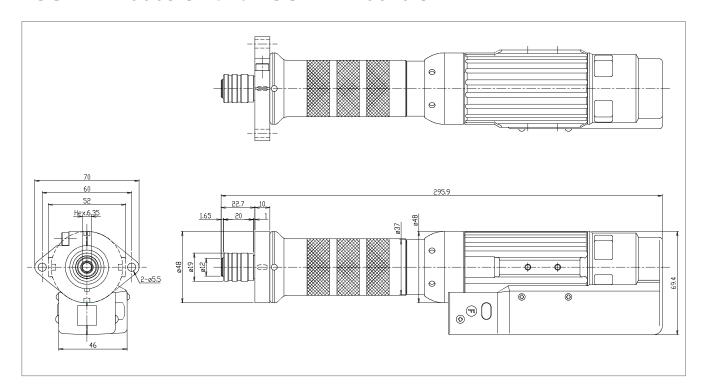
ASG-EH2-R0005-SC and ASG-EH2-R0010-SC



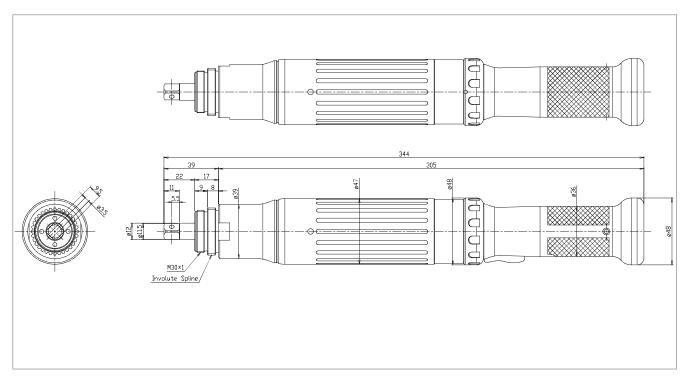
ASG-EH2-R0005-SL and ASG-EH2-R0010-SL



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

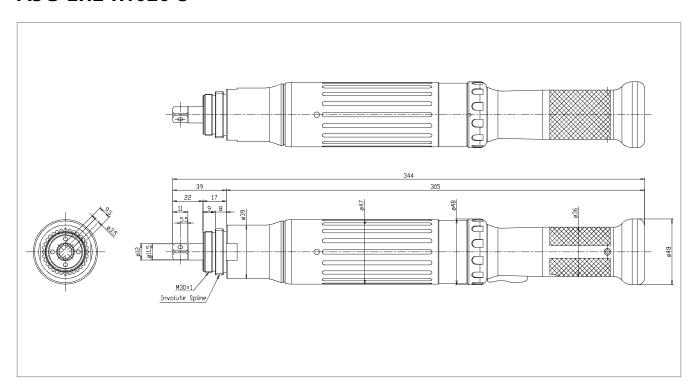


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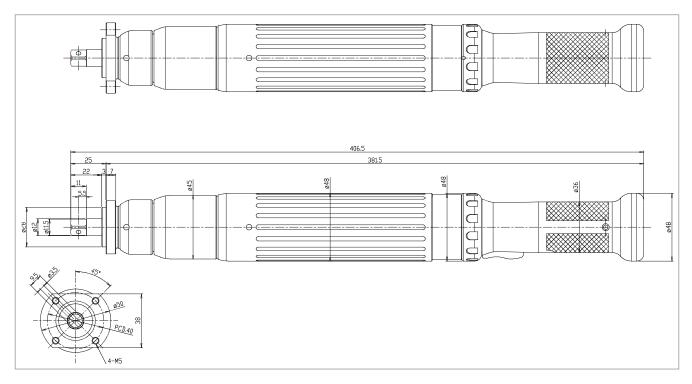




ASG-EH2-R1020-S

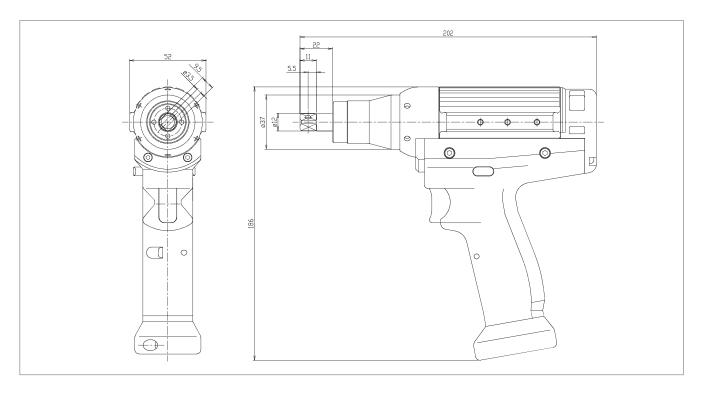


ASG-EH2-R2035-S

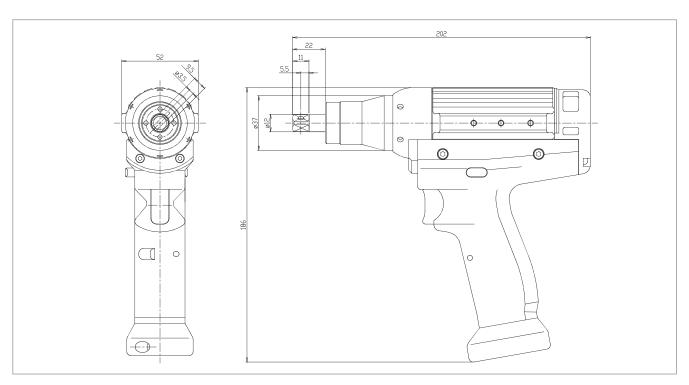


| Pistol Grip Dimensions

ASG-EH2-R0005-P



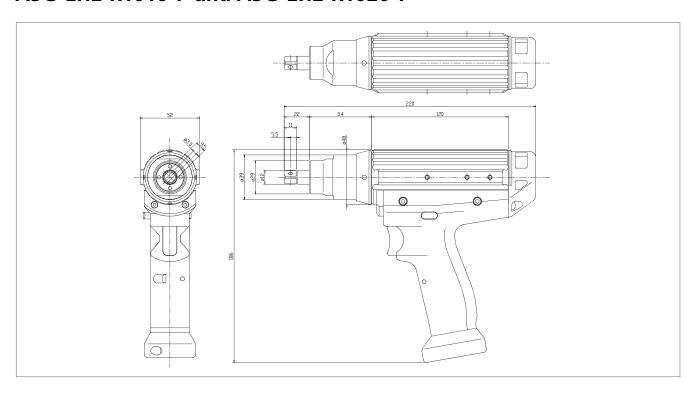
ASG-EH2-R0010-P



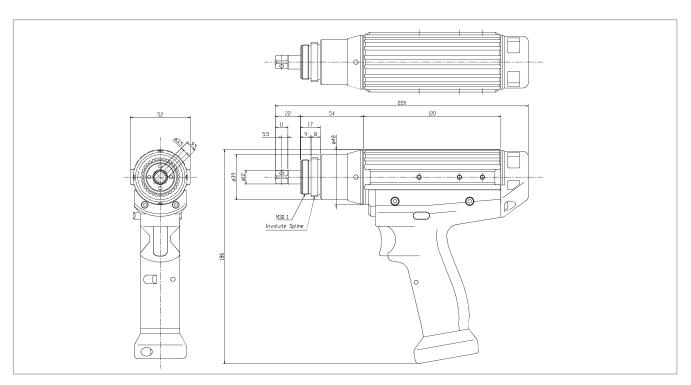


| Pistol Grip Dimensions

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



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



| EH2 Tool Cables and Accessories



Molded Connector

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-PAQTM controller and EH2 Series tools. Retracting tool cable in 3 m (9.8 ft.) length and extension cables are also available.







ASG-EH2-CVS Straight

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-CVS25-SS
	CVE	05	10	15				ASG-EH2-CVE10-SS

Tool and Controller Accessories





ASG-EH2-CVA-CVAD-L 90°



ASG-EH2-CVAD-U 180°

Tool Lever Switches







ASG-EH2-LS02

Support Handles and Levers and Spindle



ASG-ENRH-SH02 With Selector Switch and Trigger

Installed Handles



Socket Tray



ASG-EH2-SC04-P (4 position) ASG-EH2-SC08-P (8 position)

Tool Reaction Plates and Locking Nut



ASG-ENRH-RP20W Double Flange Spline



ASG-ENRH-RP20S Single Flange Spline



ASG-ENRH-LNM30 Lock Nut (Required for Spline Reaction Plates)



ASG-ENRH-RP35W Double Flange



| EH2 Tool Cables and Accessories

Tool Hanging Fixtures



ASG-EH2-SB01 16/20 Inline / 20/30 N.m Angle



ASG-EH2-SB02 35 N.m Inline









ASG-EH2-PH01 Pistol





ASG-EH2-PH02 Pistol/Inline



Serial Communication Cables



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

NET Cables and Termination Resistor



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

Controller Base



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.

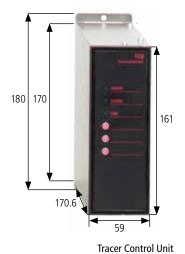


Tracer Arm			
Model Number	ASG-EH2-TA0505-R-AT1	ASG-EH2-TA0505-R-AT2	ASG-EH2-TA0505-R-AT3
Compatible Tool Models	ASG-EH2-R0005-SL/SP/SC	ASG-EH2-R1016-S	ASG-EH2-R2035-S
	ASG-EH2-R0010-SL/SP/SC	ASG-EH2-R1020-S	
Applied Torque	1.0 - 35.0 N.m (8.8-309.8 lbf.in)		
Arm Length	500mm x 500mm (19.7in x 19.7 in)		
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-030
Cable Length	0.5m (1.6 ft)	1m (3.3 ft)	3m (9.8ft)
Termination Resistor (2 Required)	ASG-EH2-CNST		

Resolver Cable			
Model Number	ASG-EH2-CVR3-010	ASG-EH2-CVR3-050	
Cable Length	1m (3.3 ft)	5m (16.4 ft)	

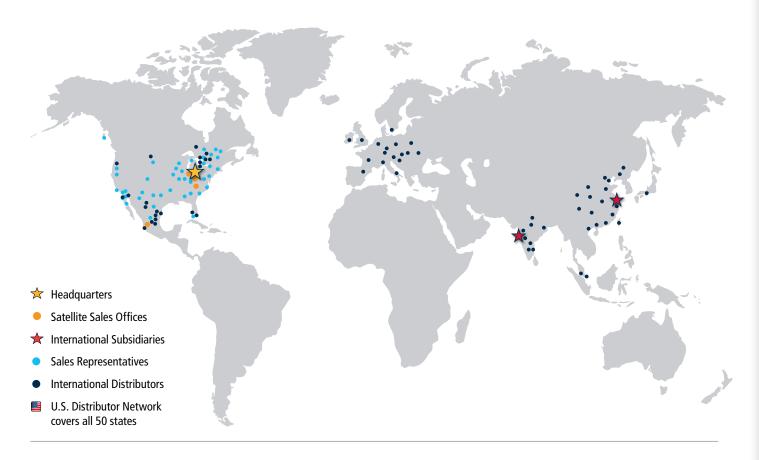
Arm Mounting Bracket			
Model Number	ASG-EH2-SAFM500	ASG-EH2-SAWM500	
Function	Install on floor/ceiling	Install on a wall	



Dimensions in mm

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		

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 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.





Products and Solutions for Assembly

November 2016

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