



## 2014 ASSEMBLY ARM SELECTION GUIDE



[toolarms.com](http://toolarms.com)

[torquearms.com](http://torquearms.com)

[smart-arms.com](http://smart-arms.com)

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BASE column on chart notes standard base height so tool holder & typical tool reach down to mounting surface. You can request 18" or 12" with any arm at no charge, otherwise base height noted for that model will be shipped.

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## PA- Series Conventional Arms for AIR TOOLS ([toolarms.com](http://toolarms.com) or [torquearms.com](http://torquearms.com))

MODEL	DESCRIPTION	MAX. TORQUE IN-LBS (Nm)	MAX. WEIGHT lbs (Kg)	BASE
<b>PA506</b>	For VERTICAL Fastening with customer's In-line Air Tool - 1/4 Male NPT Connection - 5/16" ID Tool Supply Hose	550 (62)	6 (2.7)	18"
<b>PA806</b>	For VERTICAL Fastening with customer's In-line Air Tool - 1/4 Male NPT Connection - 3/8" ID Tool Supply Hose	800 (90)	6 (2.7)	18"
<b>PA815</b>	For VERTICAL Fastening with customer's In-line Air Tool - 1/4 Male NPT Connection - 3/8" ID Tool Supply Hose	800 (90)	15 (6.75)	18"
<b>PA806-DF</b>	For VERTICAL Fastening with customer's In-line LEVER PERMIT - Auto-Shut-Off- Air Tool provides up to 15 lbs Downward Force assistance during rundown- 1/4 Male NPT Connection - 3/8" ID Tool Supply Hose -not compatible with Tool Holders	800 (90)	6 (2.7)	18"
<b>PA815-DF</b>	For VERTICAL Fastening with customer's In-line LEVER PERMIT - Auto-Shut-Off- Air Tool provides up to 15 lbs Downward Force assistance during rundown- 1/4 Male NPT Connection - 3/8" ID Tool Supply Hose -not compatible with Tool Holders	800 (90)	15 (6.75)	18"
<b>PA506-SW</b>	For Fastening with customer's In-line air tool at varying angles from VERTICAL - 1/4 Male NPT Connection - 5/16" ID Tool Supply Hose -includes SWTH ( <u>SW</u> ivel <u>T</u> ool <u>H</u> older)	180(20)	6 (2.7)	18"
<b>PA506-RA</b>	For VERTICAL Fastening with customer's Right Angle Air Tool - 5/16" ID Tool Supply Hose- includes RATH ( <u>R</u> ight <u>A</u> ngle <u>T</u> ool <u>H</u> older)	550 (62)	5 (2.25)	12"
<b>PA806-RA</b>	For VERTICAL Fastening with customer's Right Angle Air Tool - 3/8" ID Tool Supply Hose- includes RATH ( <u>R</u> ight <u>A</u> ngle <u>T</u> ool <u>H</u> older)	800 (90)	5 (2.25)	12"
<b>PA815-RA</b>	For VERTICAL Fastening with customer's Right Angle Air Tool - 3/8" ID Tool Supply Hose- includes RATH ( <u>R</u> ight <u>A</u> ngle <u>T</u> ool <u>H</u> older)	800 (90)	14 (6.3)	12"
<b>PA506-PS</b>	For HORIZONTAL Fastening with customer's Air Tool (In-line or Pistol) - 5/16" ID Tool Supply Hose- includes PSTH ( <u>P</u> istol <u>S</u> wivel <u>T</u> ool <u>H</u> older )	275 (31)	4.8 (2.16)	12"
<b>PA806-PS</b>	For HORIZONTAL Fastening with customer's Air Tool (In-line or Pistol) - 3/8" ID Tool Supply Hose- includes PSTH ( <u>P</u> istol <u>S</u> wivel <u>T</u> ool <u>H</u> older )	400 (45)	4.8 (2.16)	12"
<b>PA815-PS</b>	For HORIZONTAL Fastening with customer's Air Tool (In-line or Pistol) - 3/8" ID Tool Supply Hose- includes PSTH ( <u>P</u> istol <u>S</u> wivel <u>T</u> ool <u>H</u> older )	400 (45)	13.8 (6.2)	12"
<b>PA506-PT</b>	For HORIZONTAL Fastening with customer's Air Tool (In-line or Pistol). - 5/16" ID Tool Supply Hose - includes PTTH ( <u>P</u> istol <u>T</u> ilt <u>T</u> ool <u>H</u> older ) which allows tilt +/- 20 degrees off horizontal plane.	275 (31)	4.8 (2.16)	12"
<b>PA806-PT</b>	For HORIZONTAL Fastening with customer's Air Tool (In-line or Pistol). - 3/8" ID Tool Supply Hose - includes PTTH ( <u>P</u> istol <u>T</u> ilt <u>T</u> ool <u>H</u> older ) which allows tilt +/- 20 degrees off horizontal plane.	400 (45)	4.8 (2.16)	12"
<b>PA815-PT</b>	For HORIZONTAL Fastening with customer's Air Tool (In-line or Pistol). - 3/8" ID Tool Supply Hose - includes PTTH ( <u>P</u> istol <u>T</u> ilt <u>T</u> ool <u>H</u> older ) which allows tilt +/- 20 degrees off horizontal plane.	400 (45)	13.8 (6.2)	12"

## PA- Series Conventional Arms for AIR TOOLS - continued from Page 2

MODEL	DESCRIPTION	MAX. TORQUE IN-LBS (Nm)	MAX. WEIGHT lbs (Kg)	BASE
<b>PA506-FR</b>	For Fastening with customer's Air Tool (In-line or Pistol) at any angle Vertical to Horizontal - 5/16" ID Tool Supply Hose- includes FRTH (Flip & Rotate Tool Holder ).	275 (31)	4.6 (2.1)	12"
<b>PA806-FR</b>	For Fastening with customer's Air Tool (In-line or Pistol) at any angle Vertical to Horizontal - 3/8" ID Tool Supply Hose - includes FRTH (Flip & Rotate Tool Holder ).	400 (45)	4.6 (2.1)	12"
<b>PA815-FR</b>	For Fastening with customer's Air Tool (In-line or Pistol) at any angle Vertical to Horizontal - 3/8" ID Tool Supply Hose - includes FRTH (Flip & Rotate Tool Holder ).	400 (45)	13.6 (6.1)	12"
<b>ACCESSORIES &amp; OPTIONS FOR PA-Series Conventional Arms</b>				
<b>FSK</b>	Feedback Signal Kit. Provides NO & NC electrical contacts to monitor Air Tool fastening cycle. Model example; PA506-FSK . Can be added to any PA-Series.			
<b>-OM</b>	Conversion to <u>O</u> verhead <u>M</u> ount for any PA-Series <u>c</u> onventional Tool Arm including DF models. Model Example PA506-OM . All PA-Series are field convertible to Overhead Mount except DF models (must be ordered as PA8xx-DF-OM).			
<b>-EX</b>	Extendable Parallels are adjustable to increase reach from 1 to 8 additional inches (25 to 200mm)in 1" increments. Only available at the time the Tool Arm is purchased. Only available on 806 & 815 frames. <i>Note; Minimum reach and maximum tooling weight are affected.</i>			

## PA-Series Smart-Arms for AIR TOOLS ([smart-arms.com](http://smart-arms.com))

MODEL	DESCRIPTION	MAX. TORQUE IN-LBS (Nm)	MAX. WEIGHT lbs (Kg)	BASE
<b>PA506-SA</b>	X & Y position feedback for VERTICAL fastening with customer's Auto-Shut-Off, In-Line Air Tool - 1/4" Male NPT Connection - includes 5/16" ID Tool Supply Hose, FSK (Feedback Signal Kit) and 2-way Tool Supply 24VDC Solenoid Valve.	550 (62)	6 (2.7)	18"
<b>PA806-SA</b>	X & Y position feedback for VERTICAL fastening with customer's Auto-Shut-Off, In-Line Air Tool - 1/4" Male NPT Connection - includes 3/8" ID Tool Supply Hose, FSK (Feedback Signal Kit) and 2-way Tool Supply 24VDC Solenoid Valve.	800 (90)	6 (2.7)	18"
<b>PA815-SA</b>	X & Y position feedback for VERTICAL fastening with customer's Auto-Shut-Off, In-Line Air Tool - 1/4" Male NPT Connection - includes 3/8" ID Tool Supply Hose, FSK (Feedback Signal Kit) and 2-way Tool Supply 24VDC Solenoid Valve.	800 (90)	15 (6.75)	18"
<b>PA506-RA-SA</b>	X & Y position feedback for VERTICAL fastening with customer's Auto-Shut-Off, Right-Angle Air Tool - includes 5/16" ID Tool Supply Hose, RATH (Right Angle Tool Holder), FSK (Feedback Signal Kit) and 2-way Tool Supply 24VDC Solenoid Valve.	550 (62)	5 (2.25)	12"

## PA-Series Smart-Arms for AIR TOOLS - continued from Page 3

<b>PA806-RA-SA</b>	X & Y position feedback for VERTICAL fastening with customer's Auto-Shut-Off, Right-Angle Air Tool - includes 3/8" ID Tool Supply Hose, RATH ( <u>R</u> ight <u>A</u> ngle <u>T</u> ool <u>H</u> older), FSK ( <u>F</u> eedback <u>S</u> ignal <u>K</u> it) and 2-way Tool Supply 24VDC Solenoid Valve.	800 (90)	5 (2.25)	12"
<b>PA815-RA-SA</b>	X & Y position feedback for VERTICAL fastening with customer's Auto-Shut-Off, Right-Angle Air Tool - includes 3/8" ID Tool Supply Hose, RATH ( <u>R</u> ight <u>A</u> ngle <u>T</u> ool <u>H</u> older), FSK ( <u>F</u> eedback <u>S</u> ignal <u>K</u> it) and 2-way Tool Supply 24VDC Solenoid Valve.	800 (90)	14 (6.3)	12"
PA-Series Smart-Arm ACCESSORIES & OPTIONS				
MODEL	DESCRIPTION			
<b>SA-CB-1</b>	(Available sometime in 2014) Solid State Self Contained Smart-Arm Control Box. 2 or 3 Axis teachable position control.			
<b>SA-GUI-2</b>	PC Based 2 Axis ( X & Y), GUI ( <u>G</u> raphical <u>U</u> ser <u>I</u> nterface) Smart Arm Control. I/O -Network Enclosure and Software License included. Smart-Arm purchased separately. Computer and monitor not included.			
<b>-VPF</b>	<u>V</u> ertical <u>P</u> osition <u>F</u> eedback - adds 3rd (Z) Axis of position feedback to ETA Smart-Arms. Includes cable. NOTE; VPF option is NOT intended for use as fastener depth control device.			
<b>-OM</b>	Conversion to <u>O</u> verhead <u>M</u> ount for any PA-Series Smart-Arm. PA-Series Smart-Arms are NOT field convertible to Overhead Mount (must be ordered as PAxxx-SA-OM). Note; On Overhead Mount the Rear Encoder is mounted below Shoulder Block and has Impact Guard added.			
<b>-EX</b>	Extendable Parallels are adjustable to increase reach from 1 to 8 additional inches (25 to 200mm)in 1" increments. Only available at the time the Tool Arm is purchased. Only available on 806 & 815 frames. <i>Note; Minimum reach and maximum tooling weight are affected.</i>			

## EL-Series Conventional Arms for ELECTRIC TOOLS ([toolarms.com](http://toolarms.com) or [torquearms.com](http://torquearms.com))

NOTE: All ETA Tool Arms, including EL-Series for electric tools, require compressed air connection for arm flotation .

MODEL	DESCRIPTION	MAX. TORQUE IN-LBS (Nm)	MAX. WEIGHT lbs (Kg)	BASE
<b>EL506</b> (PA506-EL)	For VERTICAL Fastening with customer's In-line Electric Tool - includes UVTH ( <u>U</u> niversal <u>V</u> ertical <u>T</u> ool <u>H</u> older)	550 (62)	5 (2.25)	12"
<b>EL806</b> (PA806-EL)	For VERTICAL Fastening with customer's In-line Electric Tool - includes UVTH ( <u>U</u> niversal <u>V</u> ertical <u>T</u> ool <u>H</u> older)	800 (90)	5 (2.25)	12"
<b>EL815</b> (PA815-EL)	For VERTICAL Fastening with customer's In-line Electric Tool - includes UVTH ( <u>U</u> niversal <u>V</u> ertical <u>T</u> ool <u>H</u> older)	800 (90)	14 (6.3)	12"
<b>EL506-N</b> (PA506-N)	Basic Tool Arm without Tool Holder - for use with custom tool holder or fixture.	550 (62)	6 (2.7)	12"
<b>EL806-N</b> (PA806-N)	Basic Tool Arm without Tool Holder - for use with custom tool holder or fixture.	800 (90)	6 (2.7)	12"

## EL-Series Conventional Arms for ELECTRIC TOOLS -continued from Page 4

NOTE: All ETA Tool Arms, including EL-Series for electric tools, require compressed air connection for arm flotation .

MODEL	DESCRIPTION	MAX. TORQUE IN-LBS (Nm)	MAX. WEIGHT lbs (Kg)	BASE
<b>EL815-N</b> (PA815-N)	Basic Tool Arm without Tool Holder - for use with custom tool holder or fixture.	800 (90)	15 (6.75)	12"
<b>EL506-RA</b>	For VERTICAL Fastening with customer's Right Angle Electric Tool - includes RATH ( <u>R</u> ight <u>A</u> ngle <u>T</u> ool <u>H</u> older)	550 (62)	5 (2.25)	12"
<b>EL806-RA</b>	For VERTICAL Fastening with customer's Right Angle Electric Tool - includes RATH ( <u>R</u> ight <u>A</u> ngle <u>T</u> ool <u>H</u> older)	800 (90)	5 (2.25)	12"
<b>EL815-RA</b>	For VERTICAL Fastening with customer's Right Angle Electric Tool - includes RATH ( <u>R</u> ight <u>A</u> ngle <u>T</u> ool <u>H</u> older)	800 (90)	14 (6.3)	12"
<b>EL506-PS</b>	For HORIZONTAL Fastening with customer's Electric Tool (In-line or Pistol) - includes PSTH ( <u>P</u> istol <u>S</u> wivel <u>T</u> ool <u>H</u> older )	275 (31)	4.8 (2.16)	12"
<b>EL806-PS</b>	For HORIZONTAL Fastening with customer's Electric Tool (In-line or Pistol) - includes PSTH ( <u>P</u> istol <u>S</u> wivel <u>T</u> ool <u>H</u> older )	400 (45)	4.8 (2.16)	12"
<b>EL815-PS</b>	For HORIZONTAL Fastening with customer's Electric Tool (In-line or Pistol) - includes PSTH ( <u>P</u> istol <u>S</u> wivel <u>T</u> ool <u>H</u> older )	400 (45)	13.8 (6.2)	12"
<b>EL506-PT</b>	For HORIZONTAL Fastening with customer's Electric Tool (In-line or Pistol). - includes PTTH ( <u>P</u> istol <u>T</u> ilt <u>T</u> ool <u>H</u> older ) which allows tilt +/- 20 degrees off horizontal plane.	275 (31)	4.8 (2.16)	12"
<b>EL806-PT</b>	For HORIZONTAL Fastening with customer's Electric Tool (In-line or Pistol). - includes PTTH ( <u>P</u> istol <u>T</u> ilt <u>T</u> ool <u>H</u> older ) which allows tilt +/- 20 degrees off horizontal plane.	400 (45)	4.8 (2.16)	12"
<b>EL815-PT</b>	For HORIZONTAL Fastening with customer's Electric Tool (In-line or Pistol). - includes PTTH ( <u>P</u> istol <u>T</u> ilt <u>T</u> ool <u>H</u> older ) which allows tilt +/- 20 degrees off horizontal plane.	400 (45)	13.8 (6.2)	12"
<b>EL506-FR</b>	For Fastening with customer's Electric Tool (In-line or Pistol) at any angle Vertical to Horizontal - includes FRTH ( <u>F</u> lip & <u>R</u> otate <u>T</u> ool <u>H</u> older )	275 (31)	4.6 (2.1)	12"
<b>EL806-FR</b>	For Fastening with customer's Electric Tool (In-line or Pistol) at any angle Vertical to Horizontal - includes FRTH ( <u>F</u> lip & <u>R</u> otate <u>T</u> ool <u>H</u> older )	400 (45)	4.6 (2.1)	12"
<b>EL815-FR</b>	For Fastening with customer's Electric Tool (In-line or Pistol) at any angle Vertical to Horizontal - includes FRTH ( <u>F</u> lip & <u>R</u> otate <u>T</u> ool <u>H</u> older )	400 (45)	13.6 (6.1)	12"
<b>ACCESSORIES &amp; OPTIONS for EL-Series Conventional Arms</b>				
<b>-OM</b>	Conversion to <u>O</u> verhead <u>M</u> ount for any EL-Series <u>c</u> onventional Tool Arm. Model Example EL506-OM . All EL-Series are field convertible to Overhead Mount.			
<b>-EX</b>	Extendable Parallels are adjustable to increase reach from 1 to 8 additional inches (25 to 200mm)in 1" increments. Only available at the time the Tool Arm is purchased. Only available on 806 & 815 frames. <i>Note; Minimum reach and maximum tooling weight are affected.</i>			

## EL-Series Smart-Arms for ELECTRIC TOOLS ([smart-arms.com](http://smart-arms.com))

NOTE: All ETA Tool Arms, including EL-Series Smart-Arms, require compressed air connection for arm flotation .

MODEL	DESCRIPTION	MAX. TORQUE IN-LBS (Nm)	MAX. WEIGHT lbs (Kg)	BASE
EL506-SA	X & Y position feedback for VERTICAL fastening with customer's In-line DC Tool - includes UVTH ( <u>U</u> niversal <u>V</u> ertical <u>T</u> ool <u>H</u> older)	550 (62)	5 (2.25)	12"
EL806-SA	X & Y position feedback for VERTICAL fastening with customer's In-line DC Tool - includes UVTH ( <u>U</u> niversal <u>V</u> ertical <u>T</u> ool <u>H</u> older)	800 (90)	5 (2.25)	12"
EL815-SA	X & Y position feedback for VERTICAL fastening with customer's In-line DC Tool - includes UVTH ( <u>U</u> niversal <u>V</u> ertical <u>T</u> ool <u>H</u> older)	800 (90)	14 (6.3)	12"
EL506-N-SA	X & Y position feedback Tool Arm without Tool Holder - for use with custom tool holder or fixture.	550 (62)	6 (2.7)	12"
EL806-N-SA	X & Y position feedback Tool Arm without Tool Holder - for use with custom tool holder or fixture.	800 (90)	6 (2.7)	12"
EL815-N-SA	X & Y position feedback Tool Arm without Tool Holder - for use with custom tool holder or fixture.	800 (90)	15 (6.75)	12"
EL506-RA-SA	X & Y position feedback for VERTICAL fastening with customer's Right-Angle DC Tool - includes RATH ( <u>R</u> ight <u>A</u> ngle <u>T</u> ool <u>H</u> older)	550 (62)	5 (2.25)	12"
EL806-RA-SA	X & Y position feedback for VERTICAL fastening with customer's Right-Angle DC Tool - includes RATH ( <u>R</u> ight <u>A</u> ngle <u>T</u> ool <u>H</u> older)	800 (90)	5 (2.25)	12"
EL815-RA-SA	X & Y position feedback for VERTICAL fastening with customer's Right-Angle DC Tool - includes RATH ( <u>R</u> ight <u>A</u> ngle <u>T</u> ool <u>H</u> older)	800 (90)	14 (6.3)	12"

### EL-Series Smart-Arm ACCESSORIES & OPTIONS

SA-CB-1	(Available sometime in 2014) Solid State Self Contained Smart-Arm Control Box. 2 or 3 Axis teachable position control.
SA-GUI-2	PC Based 2 Axis ( X & Y), GUI ( <u>G</u> raphical <u>U</u> ser <u>I</u> nterface) Smart Arm Control. I/O -Network Enclosure and Software License included. Smart-Arm purchased separately. Computer and monitor not included.
-VPF	<u>V</u> ertical <u>P</u> osition <u>F</u> eedback - adds 3rd (Z) Axis of position feedback to ETA Smart-Arms. Includes cable. NOTE; VPF option is NOT intended for use as fastener depth control device.
-OM	Conversion to <u>O</u> verhead <u>M</u> ount for any EL-Series Smart-Arm. EL-Series Smart-Arms are NOT field convertible to Overhead Mount (must be ordered as ELxxx-SA-OM). <i>Note; On Overhead Mount the Rear Encoder is mounted below Shoulder Block and has Impact Guard added.</i>
-EX	Extendable Parallels are adjustable to increase reach from 1 to 8 additional inches (25 to 200mm)in 1" increments. Only available at the time the Tool Arm is purchased. Only available on 806 & 815 frames. <i>Note; Minimum reach and maximum tooling weight are affected.</i>

## TOOL HOLDERS & ACCESSORIES - Tool Holders fit all ETA models

*NOTE; all Standard ETA Tool Holders below clamp 1-1/8" (28,58mm) to 2.0" (50,8mm) diameter tools.*

***Custom Tool Holders Quoted Upon Request.***

MODEL	DESCRIPTION
<b>SWTH</b>	<u>S</u> Wivel <u>T</u> ool <u>H</u> older
<b>FRTH</b>	<u>F</u> lip & <u>R</u> otate <u>T</u> ool <u>H</u> older
<b>UVTH</b>	<u>U</u> niversal <u>V</u> ertical <u>T</u> ool <u>H</u> older
<b>RATH</b>	<u>R</u> ight <u>A</u> ngle <u>T</u> ool <u>H</u> older
<b>PSTH</b>	<u>P</u> istol <u>S</u> wivel <u>T</u> ool <u>H</u> older
<b>PTTH</b>	<u>P</u> istol <u>T</u> ilt <u>T</u> ool <u>H</u> older
<b>B250-0</b>	8" Dia Heavy Duty Base Plate for 2-1/2" NPT Iron Pipe and includes Reducing Coupler 2-1/2 to 1-1/4 NPT Threads. Used for higher torques and/or extended mounts on floor or overhead.