



American Hakko Products, Inc.

# PRODUCT BULLETIN

**Bulletin No:** PB464

**Issue Date:** 2-8-2023

**Effective Date:** 3-1-2023

**Description/Title:**

New CHP ATX Series Smart Servo Fastening System

**Part No:**

ATX-P1, ATX-P2, ATX-12, ATX-30, ATX-50, AT-2W2140

**Comments:**

The new CHP ATX Series Smart Servo Fastening System provides high-precision torque and angle-controlled fastening using a high-quality DC brushless servo motor, a high-precision transducer, and high-resolution digital encoder for accurate angle measurement.



The controller features a large touchscreen intuitive interface for programming up to 500 different fastener parameters and the ability to handle up to 500 user-programmable sequences. Each fastener parameter is programmable for various combinations of time, torque, rotation angle, and direction. The system has 3 common parameter templates and a user-defined template to define your own strategy with as many as 6 individual stages, including definable settings for the calculation of prevailing torque, snug point, clamp torque, and clamp angle. The full-color display shows the resulting data and torque curve and the data collected can be exported via USB. Programmable digital I/O and definable user profiles with password protection provide process control and integration/interface capabilities including standard RS-232, RS-485, and Ethernet built-in with no need to purchase add-ons. The ATX Series also features an industry-first dual-port controller that can operate two drivers simultaneously or in a user-defined sequence.

The drivers feature an ergonomic grip design that is lightweight and ESD safe for electronics assembly. The drivers also feature an integrated, intensity-adjustable white LED work light, user-defined status indicator light, easy-to-operate rotation direction selector, and a user-programmable trigger system that allows you to define the trigger type as push, lever, or both and also define the start and stop sensitivity.

### Specifications:

#### Drivers

Model (Part No.)	ATX-12	ATX-30	ATX-50
Torque Range	2.4 – 12 kgf-cm (2.08 – 10.41 lbf-in.)	6.0 – 30 kgf-cm (5.20 – 26.03 lbf-in.)	10 – 50 kgf-cm (8.67 – 43.39 lbf-in.)
Max Speed (RPM)	2000	1200	700
Torque Precision	< ±3%		
Tool Bit Shank	6.35 mm (0.25 in.) Hex		
Tool Bits Included (50 mm Length)	Phillips #1 – 3.0 mm ø Phillips #2 – 4.5 mm ø	Phillips #2 – 4.5 mm ø Phillips #2 – 6.0 mm ø	2 pcs Phillips #2 – 6.0 mm ø
Grip Diameter	34 mm (1.34 in.)		
Trigger Type	User-Programmable Push/Lever/Both		
Work Light	Integrated White LED – User-Programmable Intensity		
Status Indicator	User-Programmable Yellow/Red/Green		
Dimensions (W x D x H)	41 x 40 x 272 mm (1.61 x 1.57 x 10.71 in.)		
Weight	480 g (16.9 oz.)		
Operating Environment	0 – 40°C (-32 – 104°F) 0 – 90% RH (Non-condensing)		
Enclosure Rating	IP40		

#### Controller

Model	ATX	
Part No.	ATX-P1	ATX-P2
Supported No. of Screwdrivers	1	2
Input Voltage	100 to 240 VAC 50/60 Hz	
Power Consumption	100 W	200 W
Output Voltage	38 VDC	
Continuous Output Current (RMS)	3.7 A / Screwdriver	
Max Instantaneous Output Current (RMS)	15.0 A / Screwdriver	
Display	10.1" TFT LCD Touchscreen	
Resolution	800 x 1280 24-bit RGB	
Network Interface	1 port RJ-45 10/100 Mbps Auto-Detect	
Serial Interface	1 port RS-232	
	2 port RS-485	
HDMI Output	1 port HDMI 1.4a	
USB Host	1 port USB 2.0	
Digital Input/Output (Per Tool)	8 – Digital Outputs (150 mA max.) 8 – Digital Inputs (30 VDC max.)	
Fastener Definitions	500 max.	
Fastener Sequence Definitions	500 max.	
Dimensions (W x D x H)	200 x 121.1 x 251.5 mm (7.9 x 4.8 x 9.9 in.)	
Weight	4.02 kg (8.9 lb.)	4.11 kg (9.1 lb.)
Operating Environment	0 to 40°C (-32 to 104°F) 0 to 90% RH (Non-condensing)	
Enclosure Rating	IP20	