



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                                   |
|--|---|--|--|
| <b>Torque Range</b>                          | 2.4 – 12 kgf-cm<br>(2.08 – 10.41 lbf-in.)             | 6.0 – 30 kgf-cm<br>(5.20 – 26.03 lbf-in.)        | 10 – 50 kgf-cm<br>(8.67 – 43.39 lbf-in.) |
| <b>Max Speed (RPM)</b>                       | 2000  | 1200   | 700                                      |
| <b>Torque Precision</b>                      | < ±3%   |  |  |
| <b>Tool Bit Shank</b>                        | 6.35 mm (0.25 in.) Hex                                |  |  |
| <b>Tool Bits Included<br/>(50 mm Length)</b> | Phillips #1 – 3.0 mm ø<br>Phillips #2 – 4.5 mm ø      | Phillips #2 – 4.5 mm ø<br>Phillips #2 – 6.0 mm ø | 2 pcs<br>Phillips #2 – 6.0 mm ø          |
| <b>Grip Diameter</b>                         | 34 mm (1.34 in.)                                      |  |  |
| <b>Trigger Type</b>                          | User-Programmable Push/Lever/Both                     |  |  |
| <b>Work Light</b>                            | Integrated White LED – User-Programmable Intensity    |  |  |
| <b>Status Indicator</b>                      | User-Programmable Yellow/Red/Green                    |  |  |
| <b>Dimensions (W x D x H)</b>                | 41 x 40 x 272 mm<br>(1.61 x 1.57 x 10.71 in.)         |  |  |
| <b>Weight</b>                                | 480 g (16.9 oz.)                                      |  |  |
| <b>Operating Environment</b>                 | 0 – 40°C (-32 – 104°F)<br>0 – 90% RH (Non-condensing) |  |  |
| <b>Enclosure Rating</b>                      | IP40  |  |  |

### Controller

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

For more information, please visit [www.HakkoUSA.com](http://www.HakkoUSA.com) or call 1-800-88-HAKKO (42556)