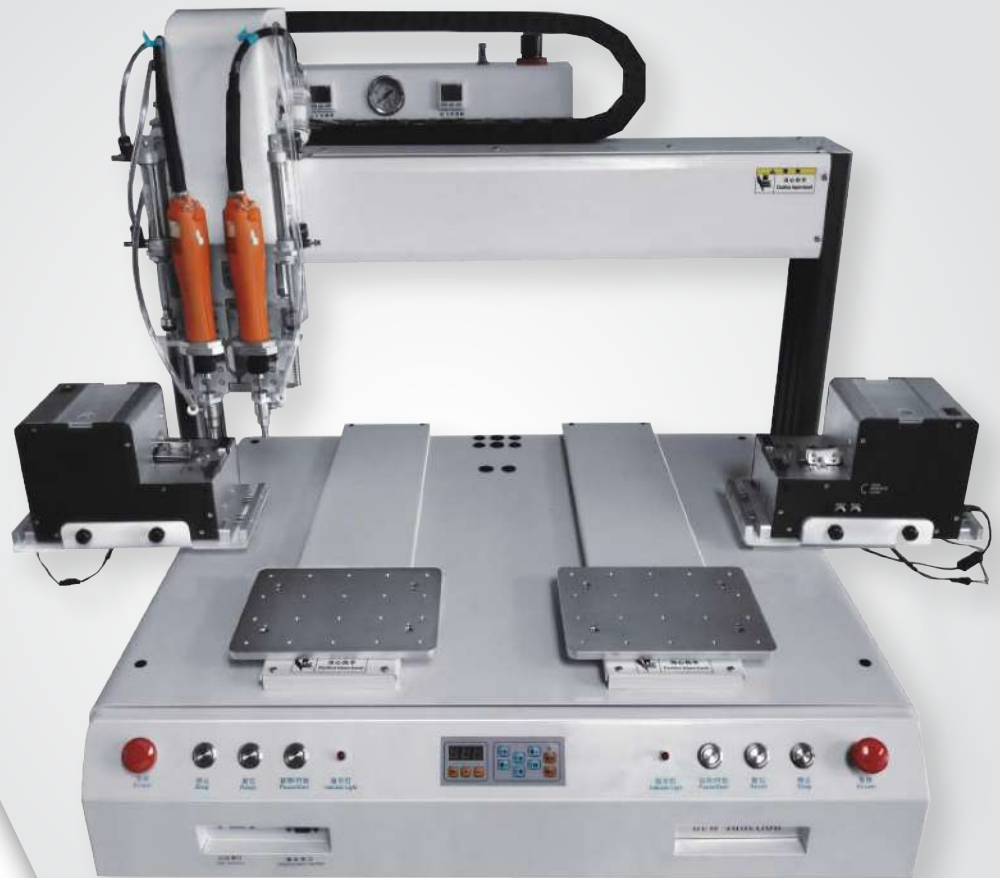




**fancort industries, inc.**

TM



Robotic Screw Fastening  
Medium to High Volume Production

# Screw Fastening Robot

## Overview

Screw fastening robot greatly improves the work efficiency and the screw fastening consistency & reliability. With the advanced teaching pendant, operators can set up by themselves all the process parameters such as the screw coordinate and screw types, etc. It can adapt to all sorts of difficult screw fastening process and achieve the complete automation.

## Features

- ▶ The stepper motor drive and the advanced motion control algorithm for the five-axis effectively improve the positioning accuracy and repeat precision.
- ▶ Smart detection function: when a screw is missing or the screw does not fill in place, the machine will give an alarm.
- ▶ It guarantees the high precision of screw fastening which cannot be achieved by the traditional manual screw fastening. Besides, it improves the production efficiency and reduces the labor cost.
- ▶ Suitable for most of the screws, specially the stainless steel screws.
- ▶ It is easy to learn the operation. One operator can operate several machines at the same time.
- ▶ The rail of the screw feeder is adjustable. (Applicable screws: M1.5 - M5.0)

## Applications

It is suitable for all kinds of screw fastening process on mobile phones, keyboards, monitors, car accessories, toys, small home electrical appliances, integrated circuits, printed circuit boards, LCD screen, electronic components (such as relays, speakers).



# Optional Combinations



Picture 1

Teaching Pendant



Picture 2

- A. One screw feeder, one screwdriver (Picture 1).
- B. Two screw feeders, one screwdriver.
- C. Two screw feeders, two screwdrivers.
- D. Two screw feeders, one screwdriver, two clamping devices.  
(This is specially designed to fasten screws for cellphones and small tablets)

NOTE: You can choose different screw feeder and screwdriver combination to meet different requirements.

| MODEL                  | LS-300YY                                       |
|------------------------|--|
| Voltage                | 110V / 220V AC                                 |
| Drive Mode             | 4-Axis precision step motor                    |
| Operating Range        | 500mm x 300mm x 80mm (X*Y*Z)                   |
| Movement Speed         | X*Y Axis: 0.1-800mm/sec, Z Axis: 0.1-400mm/sec |
| Repeatability Accuracy | ±0.02mm (X*Y*Z)                                |
| Minimum Analysis       | 0.01mm (X*Y*Z)                                 |
| Maximum Load Weight    | 8kgs (for work platform)                       |
| Program Capacity       | Max .255 Programs                              |
| Operating Temperature  | 10°C - 40°C                                    |
| Operating Humidity     | 20 - 90%                                       |
| External Dimensions    | 760 x 620 x 710mm                              |
| Weight                 | about 91 kgs                                   |

# Optional Combinations



LS-400YGD2

| MODEL                  | LS-400YGD2                                     |
|------------------------|--|
| Voltage                | 110V / 220V AC                                 |
| Drive Mode             | 5-Axis precision step motor                    |
| Operating Range        | 500mm x 400mm x 100mm (X*Y*Z)                  |
| Movement Speed         | X*Y Axis: 0.1-800mm/sec, Z Axis: 0.1-400mm/sec |
| Repeatability Accuracy | ±0.02mm (X*Y*Z)                                |
| Minimum Analysis       | 0.01mm (X*Y*Z)                                 |
| Maximum Load Weight    | 8kgs (for work platform)                       |
| Program Capacity       | Max. 255 Programs                              |
| Operating Temperature  | 10°C - 40°C                                    |
| Operating Humidity     | 20 - 90%                                       |
| External Dimensions    | 1180 x 740 x 760mm                             |
| Weight                 | about 107 kgs                                  |

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