

DAIHEN (OTC) · Selection Guide

Robot peripherals: welding positioners

1PB / 1PC / 2PF series, 250 kg to 1000 kg capacity

About this series

A positioner turns the workpiece into a favourable welding position and is a key part of a robotic welding cell. The DAIHEN (OTC) product centre lists three positioner series: 1PB and 1PC provide single-axis rotation, while 2PF adds tilt. Capacity covers 250 kg to 1000 kg with ± 0.05 mm repeatability.

Technical characteristics

- 1PB series: single-axis rotation, 250 / 500 / 1000 kg capacity
- 1PC series: single-axis rotation, 500 / 1000 kg capacity
- 2PF series: rotation plus tilt, 300 / 500 / 1000 kg capacity, with a published allowable tilt-axis torque
- Repeatability ± 0.05 mm, measured at R250 / R300 as published
- Rotation can stop at any position, so it can be programmed alongside the robot

Typical applications

Robotic welding cells · Structural and flange welding · Circumferential and ring welds · Batch part positioning

Representative models (3)

Positioner 1PB250 / 500 / 1000	A2PB252-J: 250 kg capacity, repeatability ± 0.05 mm (R300), 110 kg; A2PB502-J: 500 kg capacity, repeatability ± 0.05 mm (R300), 170 kg; A2PB1002-J: 1000 kg capacity, repeatability ± 0.05 mm (R300), 220 kg
Positioner 1PC500 / 1000	PC501: 500 kg capacity, repeatability ± 0.05 mm (R250), 260 kg; PC1001: 1000 kg capacity, repeatability ± 0.05 mm (R250), 260 kg
Positioner 2PF300 / 500 / 1000	A2PF301-JNN: 300 kg capacity, repeatability ± 0.05 mm (R250), 260 kg; A2PF501-JNN: 500 kg capacity, repeatability ± 0.05 mm (R250), 260 kg; A2PF1001-JNN: 1000 kg capacity, repeatability ± 0.05 mm (R250), 470 kg

This document is a selection reference. Models, configurations and detailed specifications follow the technical documentation shipped with the equipment.

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