

BL AUTOTEC WRIST COMPLIANCER™

BL Remote Center Compliance

RCC DEVICE

Model: RCC-001
Model: RCC-111
Model: RCC-112
Model: RCC-113
Model: RCC-211
Model: RCC-212
Model: RCC-213
Model: RCC-321

LOCK-UP RCC DEVICE

Model: LUR-111
Model: LUR-112
Model: LUR-113
Model: LUR-211
Model: LUR-212
Model: LUR-213
Model: LUR-321



RCC DEVICE

The RCC Device is designed to perform remote compliance functions, incorporating durable, yet flexible rubber mount elements. The device, which is installed between the robot arm (or other automated assembly equipment) and the gripper, simplifies assembly because the device corrects lateral, cocking (diagonal) and/or torsional positional misalignment. The device reduces the number of assembly defects and lost time due to misalignment, and helps prevent equipment damage. The result is improved product quality and manufacturing productivity.



Model: ① RCC-001-BS ② RCC-112-BS ③ RCC-212-BS ④ RCC-321-RH



LOCK-UP RCC DEVICE

The Lock-up RCC Device is a device for correcting positional misalignment when robots or other automated assembly equipment are used for insertion tasks. The LUR Series incorporates a pneumatic lockup mechanism in a modified RCC Device which stops lateral vibration of the shaft when the robot arm moves. This allows for greater speed and acceleration in the operation and reduces cycle time, as the robot does not need to wait for the lateral vibration to stop before performing the insertion function.



Model: ① LUR-111 ② LUR-212 ③ LUR-321



Applications

Assembly			Non-assembly	
■ Insertion of bearing into housing	■ LSI inspection equipment	■ Alternators	■ Aircraft body plate riveting	■ Tool changing and positioning
■ Insertion of gear into spline shaft	■ PCB	■ Car air-conditioning units	■ Aircraft body plate grinding and deburring	
■ Rivet installation	■ Engine valves	■ Car stereos	■ Reaming	■ Automated measuring (inspection)
■ Screw tightening	■ Automatic transmission valves	■ Medical equipment		■ Mold positioning
■ Motors				

Next-Generation Robots

ZEUS

GIGA

Automatic Tool Changer

1kg

5kg

10kg

20kg

40kg

60kg

70kg

100kg

150kg

220kg

300kg

Press-Handling Specification

100kg

Spot-Welding Gun-Changer

300kg

Options

Wire-Saving module / Contact Block

Non-contact electric signal block

A mechanical safety valve prevents Tool plate drops

List

Product Overview

Rotary Joint

PN-ZERO Series

Wrist Compliancer

RCC DEVICE
LOCK-UP RCC DEVICE

Couple Joint

CJ2

Positional Error Core							

- Note :
- 1. L is the distance between the tool gripper and the center of compliance.
 - 2. The values for rigidity in the table above are at the center of elasticity.
 - 3. Both the plates and the stopper are made of aluminium.
 - 4. The amount of each angle error correction applies only when the insertion is carried out at the center of the compliance.

