MANIPULATOR (RA100)

A Light Compact Rigid Arm Manipulator specifically designed for Automotive Assembly where space is limited and speed with precision is required.

The RA100 manipulator was specifically designed for auto assembly where space is limited, reaches are shorter and weights are lighter. Each RA100 is built to suit the customers specific requirement and includes all the needed safety and operating features.

The RA100 can be purchased as a flange machine allowing customers to attach their own tooling. Or we can provide a total solution using the manipulator with our tooling.

MANY FEATURES AND BENEFITS
- Small, Light, Easy to Use
- Made to Measure with Fast Delivery and Installation
- Competitively Priced
- “Load” and “No Load” Balancing. Enables operator to move product up, down and around with no effort - as if weightless.
- Weight Regulator or Weight Pre-Selector. For easy setting of product weight to be balanced.
- Air Reservoir. In case of air supply interruption contains enough air to allow operator to safely park the product.
- Non-Return Valve: Prevents Air Reservoir from emptying in case of disruption in air supply.
- Safety Valve. Prevents fast movement of arm in the event and operator gives “grip” command when the load is not in place or “release” command when load not on a firm surface.
- Rotation Brakes and Vertical Up/Down Brakes. “Locks” manipulator arms and stops movement on all axes. Allows operator to release controls to do a task. Also useful for parking manipulator at end of shift.
- Angle (Rotation) Stops and Vertical Lift Stops. Limits the arm movement in case of obstructions.
- Horizontal Drift Adjustment. The arms can be adjusted for NO horizontal drift in cases of poor load distribution.
- Easy Tooling Integration. The manipulator is designed to accept toolings made by others.
- Configurations. Column, Overhead Fixed or Overhead Running.
- 24 months warranty

Wide Range of Options and Accessories Available

The Manipulator meets International Standards of Health and Safety and has all the features necessary for ease of use. It has two distinct pneumatic circuits. The first circuit balances the weight of the arm and tooling (“no load” balancing). This enables the operator to move the arm with tooling up, down and around with no effort. The second circuit balances the arm, the tooling and the load to be lifted (“load” balance). This enables the operator to move the product up, down and around with no effort - as if weightless.
We are specialists in solving Materials Handling problems. Our skill is to solve materials handling problems in the workplace and to specify and supply the equipment that best meets a customer’s need and budget.

We have many years experience in the Automotive Industry. We are able to provide you with a specifically designed manipulator and tooling to suit your application.

**Benefits**
- **More Choices.** Internationally famous brands and local equipment to meet different needs and budget levels.
- **Local Knowledge and Experience.** Since 1999 we have been supplying industry with solutions to lifting, moving and positioning applications. Many references.
- **Best Service.** We assist customers to select the solution that best meets their need and budget.
- **Local guarantee.** We warrant and support everything we sell.

**Technical Features of RA100 Manipulator**

- **Weight Capacity** 120kg including tooling
- **Working Radius**
  - 2200mm for 120kg
  - 3000mm for 50 kg
- **Supply** Compressed air 7 bar
- **Configuration** Column-Fixed overhead-Mobile overhead

All equipment is designed, manufactured and tested to International Standards. Built in China to and under supervision and quality control.