



CiRo

IMPROVING ROBOT FLEXIBILITY

Tool changers | Swivels | Swivel tool changers | Hose packages | Valve units | Grippers | Tool systems | Tool stands

■ High reliability

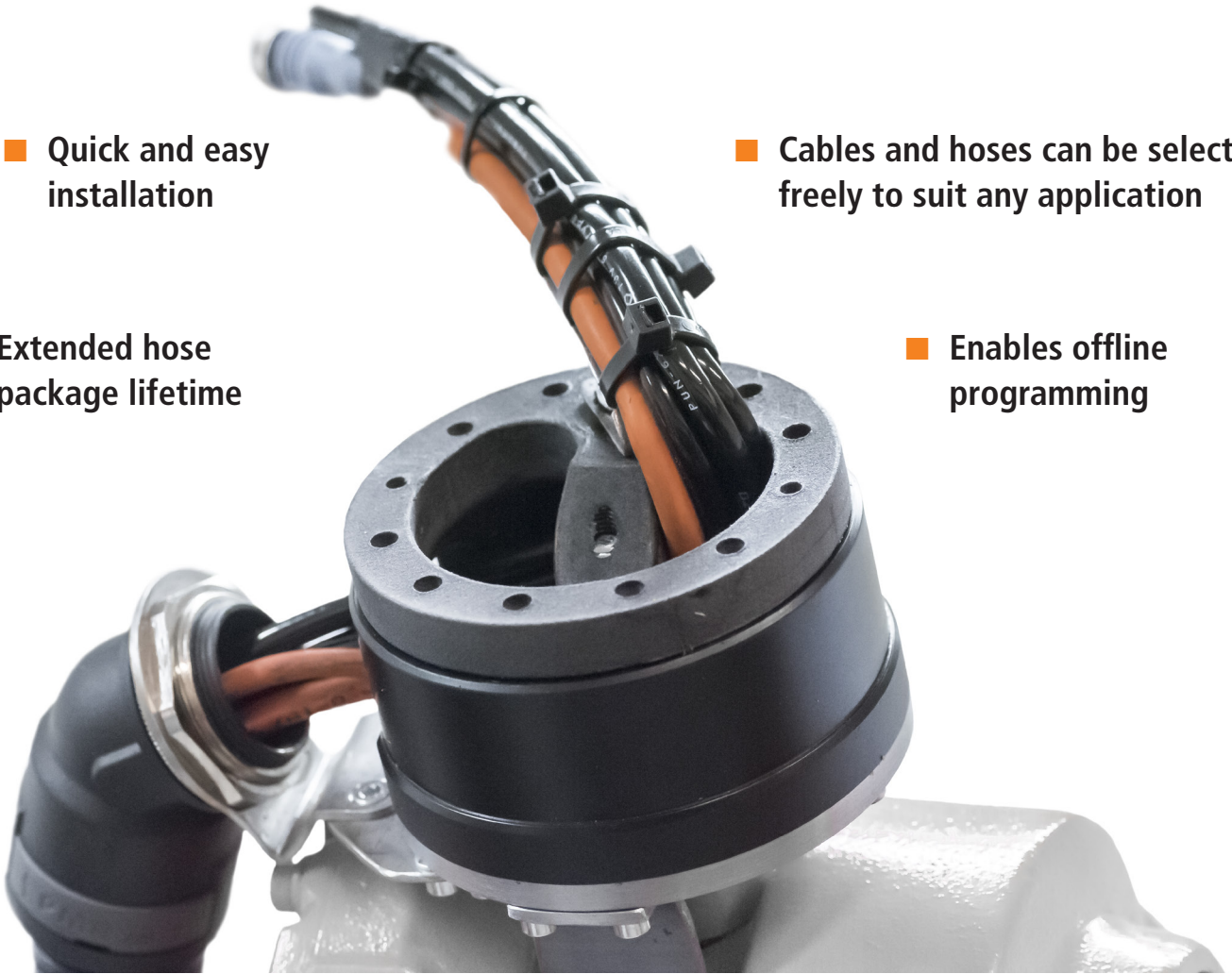
■ Up to $\pm 250^\circ$ rotation

■ Quick and easy installation

■ Cables and hoses can be selected freely to suit any application

■ Extended hose package lifetime

■ Enables offline programming



Maximize your hose package lifetime with CiRo

Cables and hoses are often the main factors limiting robot movement, often causing unpredictable production stops. At the same time, there is great demand for a compact cell layout and flexible production.

CiRo is a cost-effective solution to achieve the flexibility of internal cabling. Hoses and cables for air, signals and power can be selected according to the requirements of the application. Axis 6 can rotate with extended freedom.

- Up to $\pm 250^\circ$ rotation
- Cables and hoses can be selected freely to suit any application
- Extended hose package lifetime
- Quick and easy installation
- High reliability
- Enables offline programming

Watch the CiRo movie here:



CiRo Small

| Article | Part No | Handling capacity (kg) | Mechanical Interface | Hose capacity (mm) | Weight (kg) | Mz (Dynamic) | Mx/My (Dynamic) |
|---------|---------|------------------------|----------------------|--------------------|-------------|--------------|-----------------|
| CiRo S1 | P5131 | 10 | ISO 9409-1 50-6-M6 | 7x Ø6 | 1.2 | ± 100 Nm | ± 100 Nm |
| CiRo S2 | P5132 | 10 | ISO 9409-1 40-4-M6 | 7x Ø6 | 1.2 | ± 100 Nm | ± 100 Nm |
| CiRo S3 | P5133 | 10 | ISO 9409-1 50-4-M6 | 7x Ø6 | 1.2 | ± 100 Nm | ± 100 Nm |
| CiRo S4 | P5134 | 5 | ISO 9409-1 31.5-4-M5 | 7x Ø6 | 1.2 | ± 50 Nm | ± 50 Nm |

CiRo Medium

| Article | Part No | Handling capacity (kg) | Mechanical Interface | Hose capacity (mm) | Weight (kg) | Mz (Dynamic) | Mx/My (Dynamic) |
|-----------|---------|------------------------|-------------------------|--------------------|-------------|--------------|-----------------|
| CiRo M1 | P5121 | 40 | ISO 9409-1 100-6-M8/M10 | 9x Ø8 | 3.8 | ± 400 Nm | ± 400 Nm |
| CiRo M2 | P5124 | 40 | ISO 9409-1 80-6-M8 | 9x Ø8 | 3.8 | ± 400 Nm | ± 400 Nm |
| CiRo MHD1 | P5125 | 80 | ISO 9409-1 100-6-M8/M10 | 9x Ø8 | 5.2 | ± 800 Nm | ± 800 Nm |
| CiRo MHD2 | P5126 | 80 | ISO 9409-1 80-6-M8 | 9x Ø8 | 5.2 | ± 800 Nm | ± 800 Nm |

CiRo Large

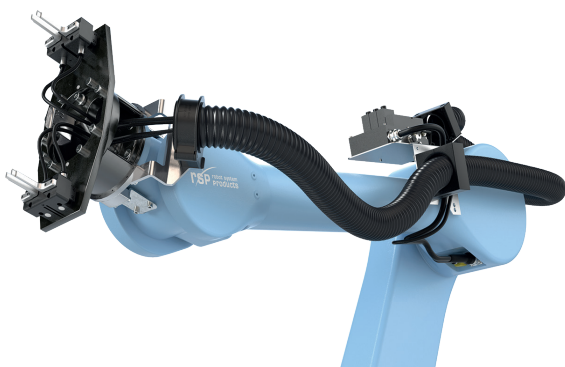
| Article | Part No | Handling capacity (kg) | Mechanical Interface | Hose capacity (mm) | Weight (kg) | Mz (Dynamic) | Mx/My (Dynamic) |
|---------|---------|------------------------|----------------------|--------------------|-------------|--------------|-----------------|
| CiRo L1 | P5141 | 100 | ISO 9409-1 125-6-M10 | 9x Ø8 | 8.7 | ± 1000 Nm | ± 1000 Nm |

CiRo X-Large

| Article | Part No | Handling capacity (kg) | Mechanical Interface | Hose capacity (mm) | Weight (kg) | Mz (Dynamic) | Mx/My (Dynamic) |
|----------|---------|------------------------|-----------------------|--------------------|-------------|--------------|-----------------|
| CiRo XL1 | P5151 | 200 | ISO 9409-1 160-11-M12 | 9x Ø8 | 17.5 | ± 2000 Nm | ± 2200 Nm |
| CiRo XL2 | P5152 | 200 | ISO 9409-1 125-11-M10 | 9x Ø8 | 17.5 | ± 2000 Nm | ± 2200 Nm |

With CiRo

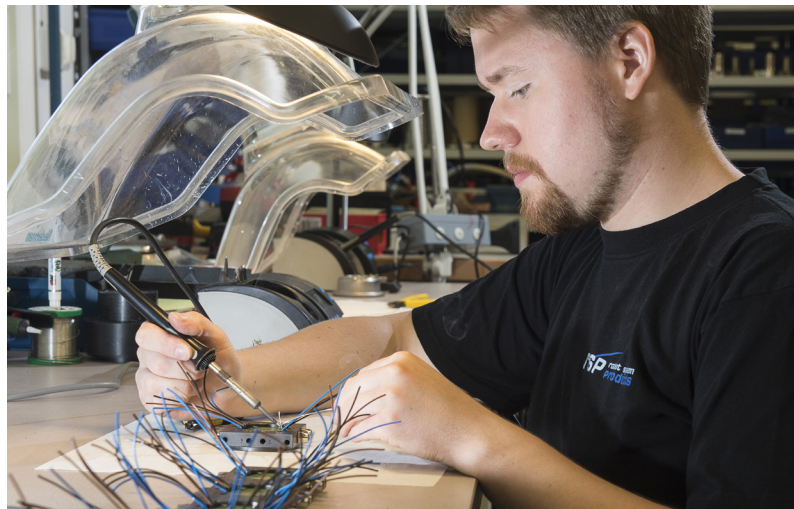
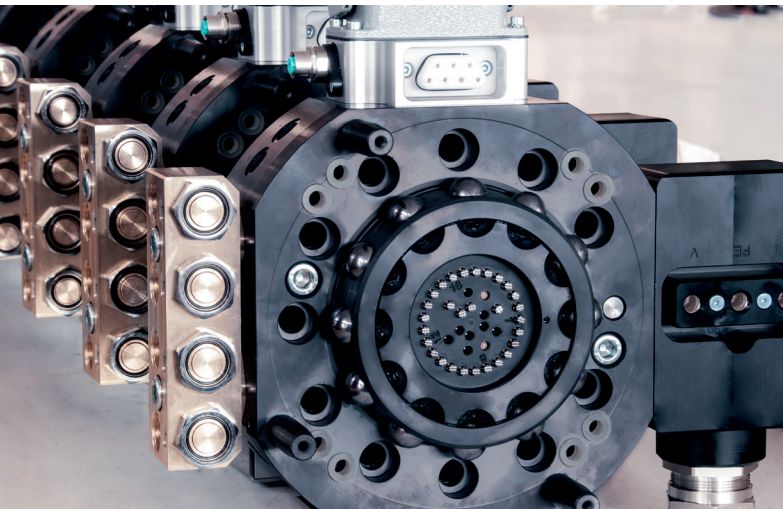
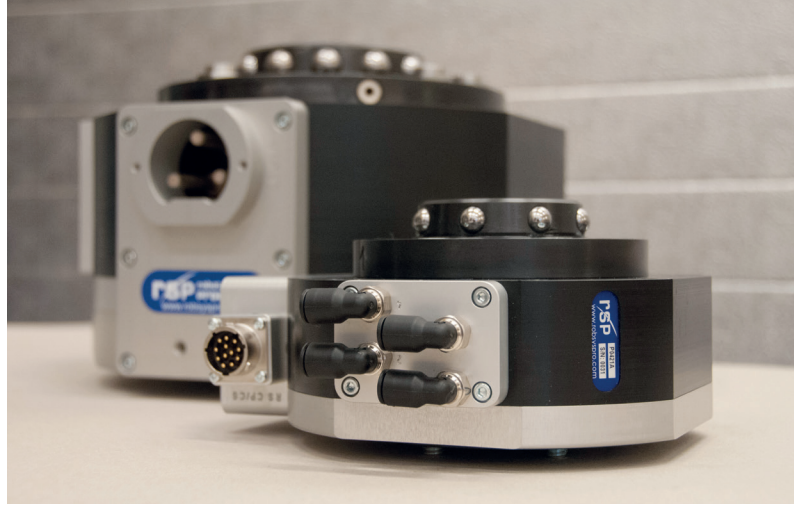
Axis 6 rotate with extended freedom.
Production uptime increases.



Without CiRo

A longer hose package is required which limits the flexibility and increases the risk of production stops.





Robot System Products is a global leader in high-performance industrial robot peripheral products.

Our expertise is to provide tested and "field proven" robotic system solutions that improve robot flexibility, utilization and uptime. From our position at the forefront of the latest robot models and advances, we offer a full line of documented plug & play robot dress solutions, as well as individual peripheral items that work with all major robot brands and models.

By continuously exploring emerging technologies, RSP designs, validates, manufactures and delivers solutions with engineered advantages that are proven to endure millions of duty cycles.

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