## **Robot Tool Changers** | | **Sigma 5.1**





**Feature** 

**Master Adaptor Tool Adaptor** 

**Reference** S5.1R-XXX S5.1T-XXX

Payload 500 kg

#### **Master Adaptor Tool Adaptor**

**Moment - Mx, My** 2937 Nm **Moment - Mz** 3084 Nm

**Size** 60x310x358 60x310x358

**Weight** 11.340 kg 8.660 kg

**Couple/uncouple port** 1/4" BSPP n/a

**Repeatability - X, Y** 0.020 mm **Repeatability - Z** 0.013 mm



#### **Operating conditions**

Operating temperature  $5-60^{\circ}$ C Operating pressure  $6 \text{ bar } \pm 1$  User pneumatic pressure  $6 \text{ bar } \pm 1$ 

### Sigma the foolproof tool changer range

Heavy Payload Tool Changers are gathered within Sigma Series. They allow handling payloads from 350kg till 800kg and are particularly suited for various applications such as spot welding, material handling, machine loading/unloading, mold changing, docking systems, pallet coupling systems, pick and place operations, press transfer.

Sigma Series tool changers have a modular design allowing them to suit any kind of application. Indeed, our range of standard module coupled with our custom modules offer increase the Sigma tool changers capabilities enabling them to meet many different needs. Sigma 5.1 tool changers have a unique six-sided design allowing to accommodate more utilities. The wide range of supported communication systems and their ability to connect directly to your robot face plate, elminitizing adaptor plate make them a easy-to-integrate solution while meeting the most complex applicative needs.



Advantages



**Benefits** 

- Unique wearcompensating, fail-safe cam latching mechanism
- Emergency manual unlock feature
- Higher payload capacity – up to 500 kg
- Unique six-sided design accommodates more utilities

- A Sigma 3.1 and Sigma 5.1 common profile provides modularity and allows for interchangeability of utility modules
- Eliminates adaptor plates for lower weights, and increased strength and efficiency
- Low profile reduces inertial forces
- Supports wide variety of servo tools and bus communications



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