EQC ELECTRIC QUICK CHANGER

ELECTRIC QUICK CHANGER

Safe and Smart tool changer
for EOATs and Cobots

Tool changers

Gimatic's quick tool changers are used to minimise tool changing times. They therefore help to speed up and improve the efficiency of production. They feature built-in pneumatic channels and electric connectors.

Side A

Side B

MAIN FEATURES

1 The tool changers consist of two parts, a **Side A** and a **Side B.** Side A is fixed on the Robot while Side B, the one of the flange, is connected to the interchangeable tool gripping elements.
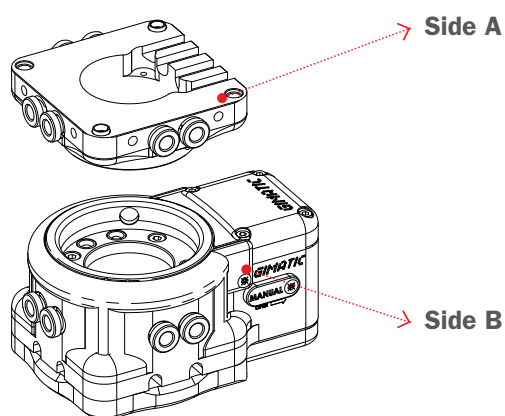
2 The load capacity of the electric tool changers ranges from **5 Kg** to **20 Kg**.

3 High level of safety during changeover operations.

EQC - Electric quick changer

Quick-change systems are used to minimise tool changing times.
They feature built-in air channels and modular electric connectors.

Gimatic's **EQC** electric tool changers are automatic and driven by a built-in electric motor. They are **Plug-and-Play** devices and therefore require no driver.

Side A

Side B

> Fully automatic **Plug&Play** system.

> Designed for cobot applications.

> Optional **ISO 9409** flange to interface directly with the robot.

> Power cable with **8-pin M8x1** connector, length 200 mm.

> **24 Vdc** low voltage supply.

> Up to 6 user pneumatic connections.

> Optional electric connectors to be positioned in the central through hole.

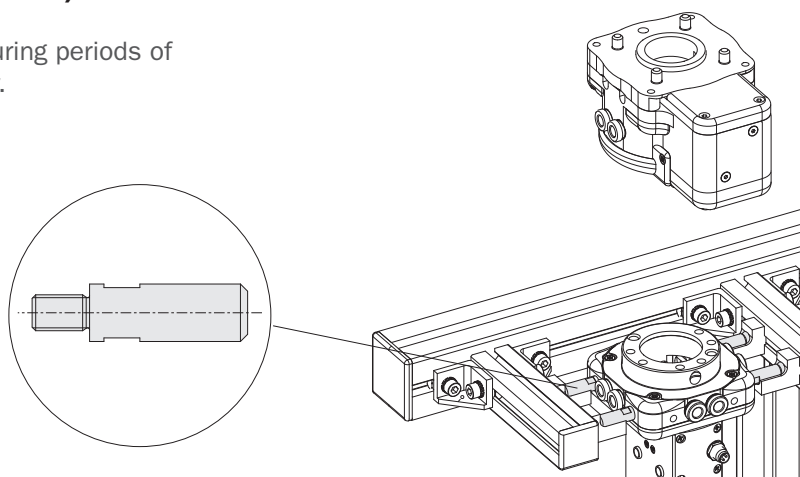> Payload: 5 and 20 kg.

2 different sizes: **EQC05, EQC20**

EQC05-B

EQC20-B

EQC20 application

EQC05-A

EQC20-A

EQC family

Side A	Side B	Description	Features of cable (M8 – 8 pins)	Load [kg]	Connectors	Storage accessories	Cobot kit
EQC05-A	EQC05-B	Standard version, size 05, PNP control, PNP outputs	Male, straight, Gimatic standard pinout	5	RMAQC05/RMBQC05	EQC05-K1	-
EQC05N-A	EQC05-B	Standard version, size 05, NPN control, PNP outputs	Male, straight, Gimatic standard pinout	5	RMAQC05/RMBQC05	EQC05-K1	-
EQC05TM-A	EQC05-B	Version for TM cobot, size 05, NPN control, NPN outputs	Male, angular, TM pinout	5	RMAQC05/RMBQC05	EQC20-K1	-
EQC20-A	EQC20-B	Standard version, size 20, PNP control, PNP outputs	Male, straight, Gimatic standard pinout	20	RMAQC/RMBQC RRAQC/RRBQC	EQC20-K1	-
EQC20N-A	EQC20-B	Standard version, size 20, NPN control, PNP outputs	Male, straight, Gimatic standard pinout	20	RMAQC/RMBQC RRAQC/RRBQC	EQC20-K1	-
EQC20TM-A	EQC20-B	Version for TM cobot, size 20, NPN control, NPN outputs	Male, angular, TM pinout	20	RMAQC/RMBQC RRAQC/RRBQC RMAQC-TM/RMBQC-TM	EQC20-K1	KIT-TM-EQC20
EQC20U-A	EQC20-B	Version for UR cobot, size 20, NPN control, PNP outputs	Female, angular, UR pinout	20	RMAQC/RMBQC RRAQC/RRBQC RMAQC-UR/RMBQC-UR	EQC20-K1	KIT-UR-EQC20

STORAGE ACCESSORIES (optional)

The pins for storing the flange during periods of inactivity are supplied separately.

Electrical connection module RMAQC05/RMBQC05

- Electric connector for **EQC05** tool changer.
- 8 spring connections with 1 pre-wired cable.

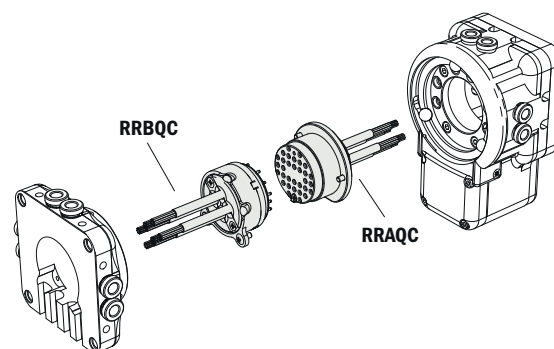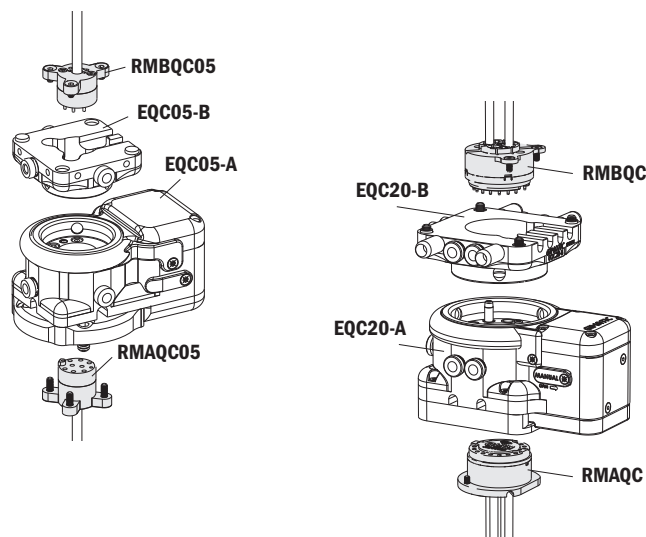## RMAQC/RMBQC electrical connection module

- Electric connector for **EQC20** tool changer.
- 32 spring connections with 4 pre-wired cables.

RRAQC/RRBQC RFID identification module

- RFID identification module and electrical connection for **EQC20.**
- Up to 255 different tools.
- Digital output for generation of a maintenance warning signal if the tool reaches the preset number of cycles.
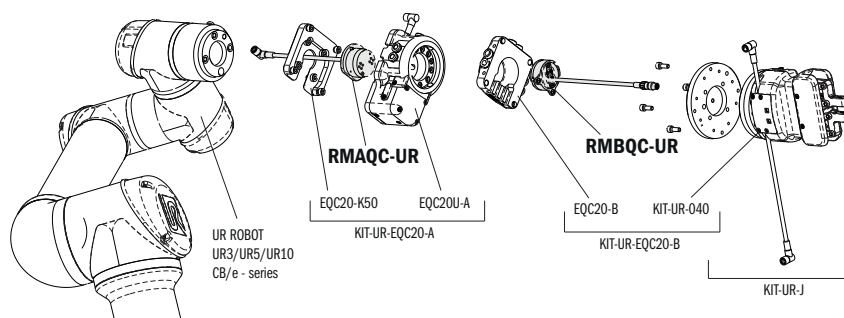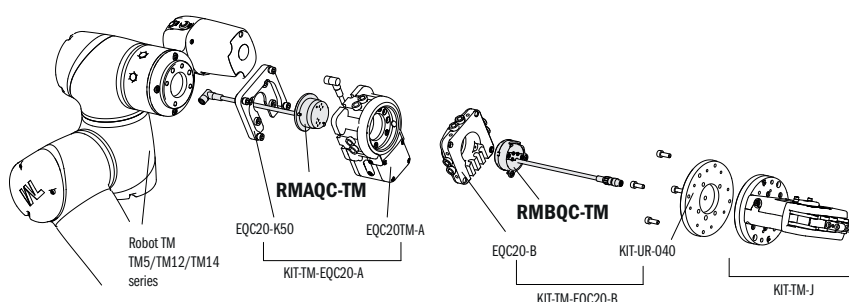- 16 electrical spring connections with 4 pre-wired cables.

Electrical connection module for UR robot - RMAQC-UR/RMBQC-UR

- Electrical connection module for **EQC20U** electric tool changer.
- 8 electrical spring connections.
- 1 pre-wired cable output.
- 3 connection options.

Electrical connection module for TM robot - RMAQC-TM/RMBQC-TM

- Electrical connection module for **EQC20TM** electric tool changer.
- 8 electrical spring connections.
- 1 pre-wired cable output.
- 3 connection options.

RMBQC05
EQC05-B
EQC05-A
RMAQC05

EQC20-B
RMBQC
EQC20-A
RMAQC

RFID

RRBQC
RRAQC

RMAQC-UR
UR ROBOT UR3/UR5/UR10 CB/e - series
EQC20-K50   EQC20U-A
KIT-UR-EQC20-A

RMBQC-UR
EQC20-B   KIT-UR-040
KIT-UR-EQC20-B
KIT-UR-J

RMAQC-TM
Robot TM TM5/TM12/TM14 series
EQC20-K50   EQC20TM-A
KIT-TM-EQC20-A

RMBQC-TM
EQC20-B   KIT-UR-040
KIT-TM-EQC20-B
KIT-TM-J

Cobot kit

Over the years, Gimatic has branched out into the world of Cobots and formed significant relations with leading companies in the sector.
Gimatic has created specific solutions for collaborative robots which consist of **Plug & Play Kits** with **plug-in software**. The range includes collaborative grippers and tool changers.
The kits are specifically for **Universal Robots (URs)** and **Techman Robots (TMs)**.

All of Gimatic's Cobot Kits share certain features:
• The **KIT** is connected directly to the wrist of the robot, without long electric cables along the arm.
• Dedicated **Plug-in software** developed directly by Gimatic.
• Simple and immediate **Plug & Play** installation.

Gimatic Cobot Kits make it easy to use cobots and are all-in-one products with everything required to use the gripper or tool changer on the Cobot.

> Customised solutions to meet the customer's every need.

> In-house development of mechatronic components.

> All the Cobot kits are developed to adapt to the various cobots available on the market.

UNIVERSAL ROBOTS

TECHMAN ROBOT

KIT-UR-EQC20

- The **EQC20** is an electric tool changer that allows the EOAT on the robot to be replaced with ease.
- The **Plug & Play** solution makes installation effortless, without the need for configuration.

The kit includes:
- One **EQC20U-A** tool changer
- One **EQC20-B** tool changing flange
- One **KIT-COBOT-007** flange adapter
- One **RMAQC-UR** connection module
- One **RMBQC-UR** connection module
- One **EQC20-K50** ISO-9409-50-4-M6 plate kit
- One **KIT-COBOT-006** cover

UNIVERSAL ROBOTS

KIT-TM-EQC20

- The Kit makes it easy to replace the EOAT.
- It features all the components needed to supply electric and pneumatic energy to the tool.
- **Plug-in software** available.

The kit includes:
- One **EQC20TM-A** tool changer
- One **EQC20-B** tool changing flange
- One **KIT-COBOT-007** flange adapter
- One **RMAQC-TM** connection module
- One **RMBQC-TM** connection module
- One **EQC20-K50** ISO-9409-50-4-M6 plate kit
- One **KIT-COBOT-006** cover

TECHMAN ROBOT

Sales network