

MATCH

SCHMALZ



Any Robot. Any Gripper. One Smart System.

End-of-Arm Ecosystem MATCH

WWW.SCHMALZ.COM/MATCH

MATCH

MATCH is the appropriate name for the new multifunctional end-of-arm platform for robotics from the two handling specialists Schmalz and Zimmer Group.

Equipped with an extensive function portfolio and universal communication interfaces, MATCH is compatible with any lightweight robot, cobot and with all conventional 6-axis robots on the market.



Two technologies – one unique platform

With the new MATCH platform, Schmalz and Zimmer Group bring together the best of two gripping worlds. And this has resulted in something unique: a modular system with which customers can flexibly implement a wide variety of requirements and applications in robotics. Furthermore, in addition to their concentrated solution expertise, both companies offer a worldwide sales network for support and service.

Versatile Applications

Whether mobile and collaborative robotics or fully automated applications: With just one flexible system, users open up an almost unlimited range of applications from production and assembly to warehouse logistics and shipping. Typical tasks include pick & place, machine loading

and unloading, order picking and packaging. Various mechanical and vacuum grippers are available to match the workpiece and the handling task. If the requirements change, the system can be adapted quickly and easily.



Handling Set ECBPMi MATCH for automated small parts handling



Different grippers can be changed manually or automatically in a gripper station



Standardized connection and communication

Suitable for any common lightweight robot – a system ideal for cobots and conventional 6-axis robots.



Easy installation

Mechanical connection by means of a quick coupler and parameterization by means of a setup wizard.



Flexible and future-proof

Any robot, any gripper, any end effector. High flexibility due to extensive portfolio.



Full process control

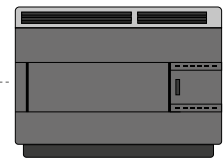
Capture, evaluate, and visualize value-added data including cloud connection.

The MATCH Portfolio

The MATCH portfolio opens up countless application possibilities in all industries. Whichever solution you choose: Smooth interaction between robot and gripper is guaranteed by the smart connection concept.



Smart Communication Module SCM
Converts IO-Link into digital inputs and outputs



Robot controller

Quick-change module on the robot



RMQC MATCH DIO

- Purely digital control by means of digital I/O signals (robot specific)



RMQC MATCH IO-Link*

- Continuous data communication (robot independent) incl. digital software support



RMQC MATCH RS485

- Direct communication interface for UR e-series

Highlights

- ✓ Load capacity up to 25 kg
- ✓ Integrated media feed-through (fluidic and electrical)
- ✓ Long service life due to hot-plug technology
- ✓ Cobot compatible design according to ISO TS 15066

Vacuum generation incl. quick-change interface



ECBPMi MATCH

- Electrical vacuum generation
- Suction rate 1,6 l/min



ECBpi MATCH

- Electrical vacuum generation
- Suction rate 12 l/min



RECB MATCH 1C UNI

- Pneumatic vacuum generation
- Suction rate 52,5 l/min



RECB MATCH 2C UNI**

- Pneumatic vacuum generation
- Suction rate 52,5 l/min
- 2 vacuum zones

Vacuum gripper



Vacuum suction cups

- Freely selectable from the comprehensive Schmalz program



Lightweight grippers SLG

- Individually configured, 3D-printed gripper
- Preconfigured as SLG Mini



Gripping system PXR

- 2 axially adjustable suction cups (PXR-I)
- 4 diagonally adjustable suction cups (PXR-X)



Modular gripper system PXT

- Internal vacuum guide (PXT1)
- External vacuum guide (PXT2)

*Use with Smart Communication Module SCM **Only combinable with RMQC...IO-Link



Starterkits MATCH

Plug and work! Contains quick-change module RMQC, vacuum generator, suction cup and communication module SCM



Quick-change module on the robot



Vacuum generation incl. quick-change interface



Vacuum gripper



Mechanical grippers

Compatible grippers at www.zimmer-group.com

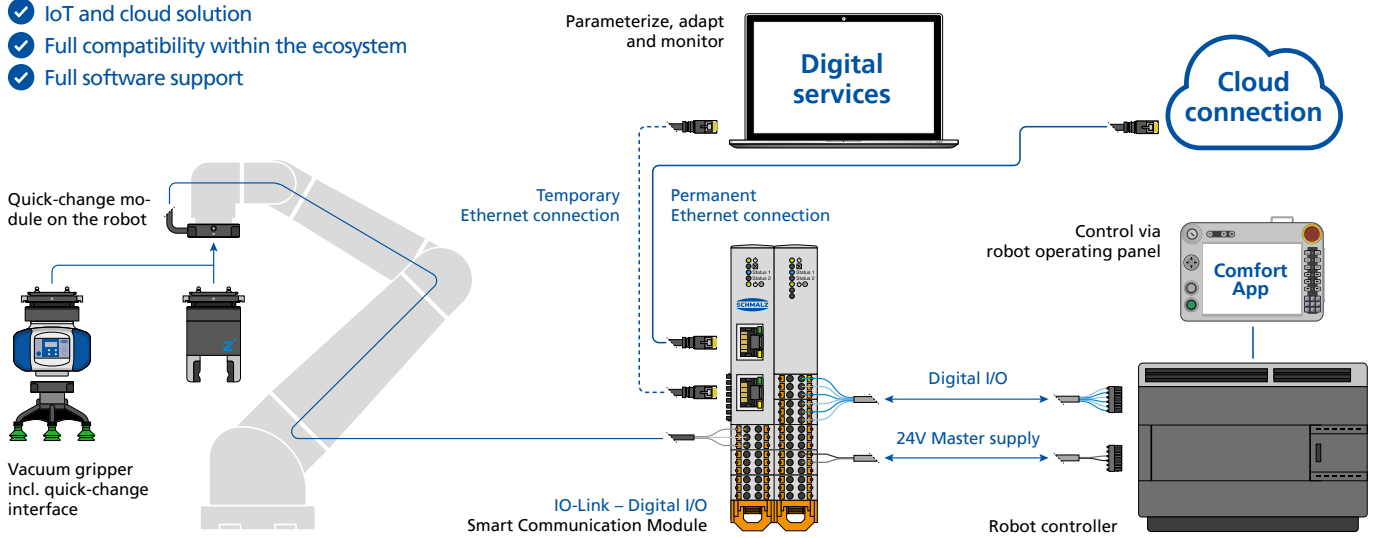
Easy Installation Thanks to Smart Ecosystem

The installation of MATCH is extremely simple. The system can be conveniently mounted and set up on the robot flange in just a few steps. Thanks to the support of the common ecosystem with a smart communication module

and useful digital services, parameterization is easy from control (Expert Mode, Guided Setup, Monitor of Device, and Comfort App) to cloud connection via the Schmalz Connect Suite intuitively and easily.

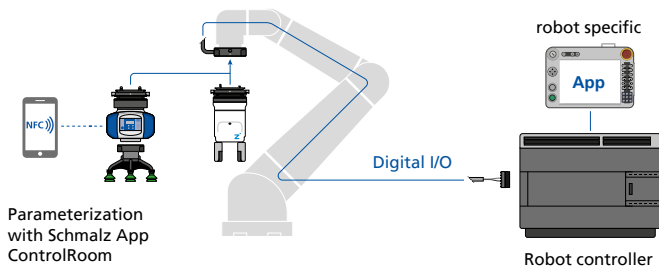
For IoT pros: Ecosystem with IO-Link

- ✔ IoT and cloud solution
- ✔ Full compatibility within the ecosystem
- ✔ Full software support



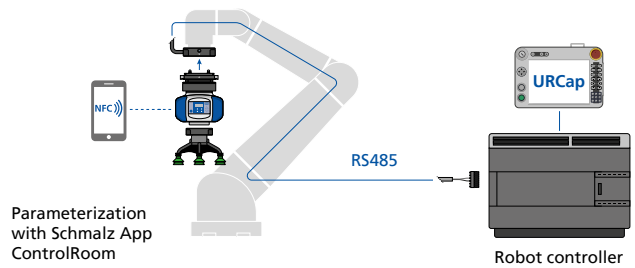
For DIY users: Ecosystem with Digital I/O

- ✔ Simple and fast
- ✔ For purely digital devices (mechanical and vacuum grippers)



For UR e-series: Ecosystem with RS485 interface

- ✔ Direct startup and control via URcap



Manual and Automated Quick-Change Function

Change comfortably and quickly

The compact quick-change module allows components to be changed quickly and easily in two ways. In addition to an automated change in a storage station or the so-called gripper station, a manual change is also possible within

seconds. Thanks to the ergonomic click system – integrated on the end effector to be changed – a manual change is possible with only one hand and thus prevents the exchange module from falling down.



Automated gripper change without external control



Manual change with one-hand function within seconds

Intuitive Software

Intuitive software solution

Zimmer Group and Schmalz have their own ecosystem with which the user can take advantage of numerous digital services. For example, in addition to the communication module SCM (master gateway), the user has access to the

intuitive setup software with Guided Setup for further configuration of the gripper as well as the Schmalz Connect Suite for managing and diagnosing IO-Link devices in the cloud.

Comfort App

The Comfort App, which is tailored to the robot manufacturer, enables the gripper to be controlled and operated conveniently and directly via the respective robot operating unit. It ensures easy setup and has all the necessary commands for a smooth automatic mode.



At your service worldwide

NORTH AMERICA

EUROPE



Headquarters

Schmalz Germany – Glatten

Sales and Production Companies

Schmalz Australia – Melbourne
Schmalz China – Shanghai
Schmalz India – Pune

Schmalz Japan – Yokohama
Schmalz United States – Raleigh (NC)

Subsidiaries

Schmalz Austria – Pasching
Schmalz Benelux – Hengelo (NL)
Schmalz Canada – Mississauga
Schmalz Finland – Vantaa
Schmalz France – Champs-sur-Marne
Schmalz Italy – Galliate (NO)
Schmalz Mexico – Querétaro

Schmalz Poland – Komorniki (Poznan)
Schmalz Russia – Moscow
Schmalz Spain – Erandio (Vizcaya)
Schmalz South Korea – Anyang
Schmalz Switzerland – Nürens Dorf
Schmalz Turkey – Istanbul
Schmalz United Kingdom – Manchester

Sales Partners

You can find the Schmalz sales partner in your country at:
WWW.SCHMALZ.COM/SALESNETWORK

Vacuum Automation

WWW.SCHMALZ.COM/AUTOMATION

Handling Systems

WWW.SCHMALZ.COM/HANDLING-SYSTEMS

J. Schmalz GmbH
Johannes-Schmalz-Str. 1
72293 Glatten, Germany
T: +49 7443 2403-0
schmalz@schmalz.de
WWW.SCHMALZ.COM

