



Hand in hand for tomorrow



## Product data sheet

Feed-through modules COS TP

## Robust. Reliable. Flexible.

### Optional modules COS

Optional modules for feeding through different media such as electrical signals, pneumatics, fluids and vacuum.

#### Field of application

For fast media transfer with short change-over times between change master and change adapter in order to supply the end effector with the required media.

#### Advantages – Your benefits

**Fits perfectly** for easy combination with SCHUNK tool changers

**Wide range of different variants** for feeding through of various media

**Module variety** the appropriate module for the required media transfer for every size of SCHUNK tool changers

**Connector variants with radial, axial, and side cable outlet** for a low interfering contour in restricted spaces

**Combination of several optional modules** for maximum flexibility of the tool changer

**Minimum wear** for a high number of change cycles and a long service life

**Customer-specific designs available on request** the suitable solution for any application

**Cable connector, cable extensions and protection covers available on request** for a comprehensive complete solution from one source



## Application example



① Automatic tool changers CPS

③ Modular storage rack CTS

⑤ 2-finger parallel gripper JGP-P

② Optional modules COS

④ Universal gripper EGU

## SCHUNK offers more ...

The following components make the product even more productive – the suitable addition for the highest functionality, flexibility, reliability, and controlled production.



Tool changer



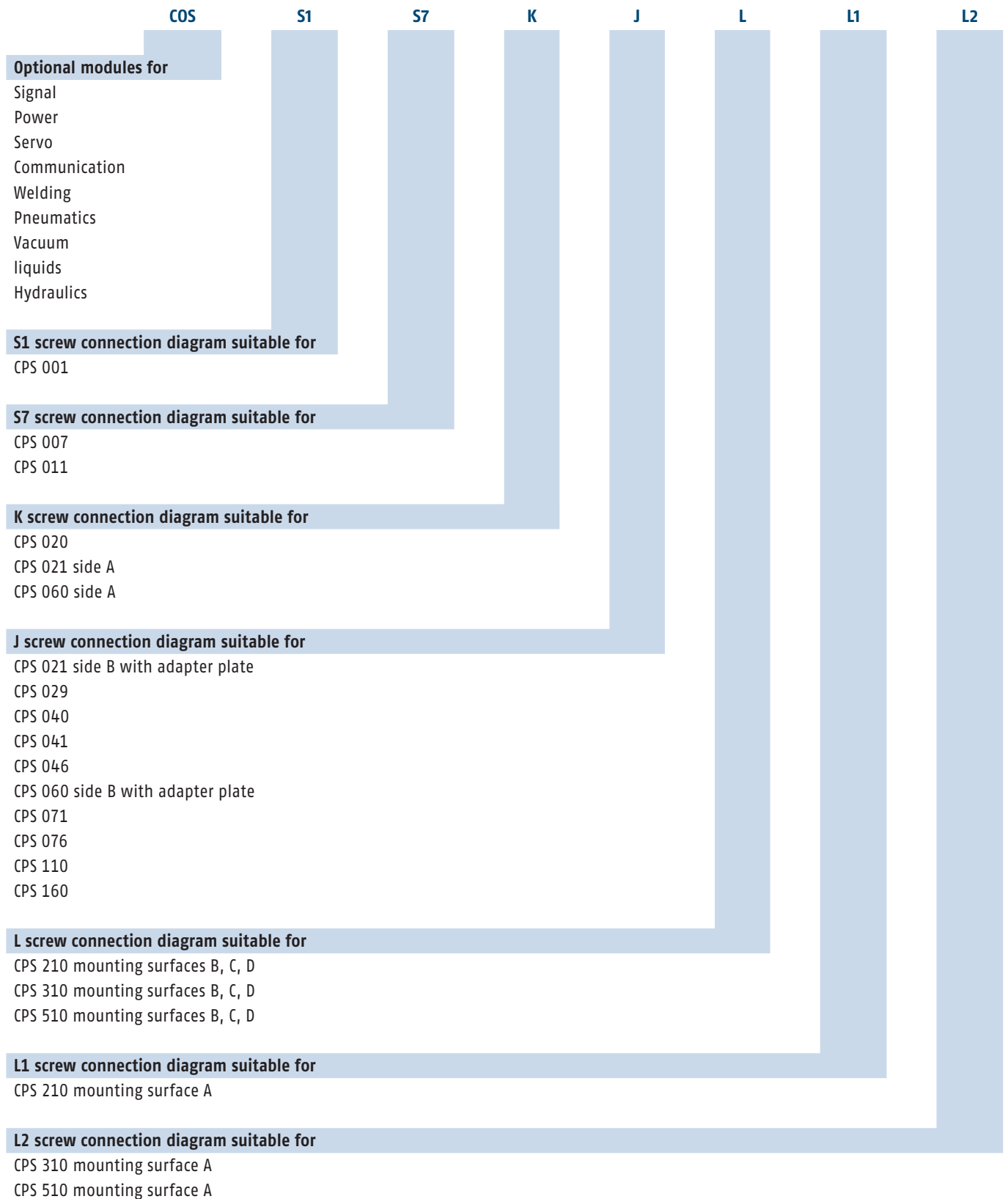
Manual change system



Pallet change system

① For more information on these products can be found on the following product pages or at [schunk.com](https://www.schunk.com).

## Overview of optional modules and mounting pattern



Special designs with modified seals or lubrication are available on request



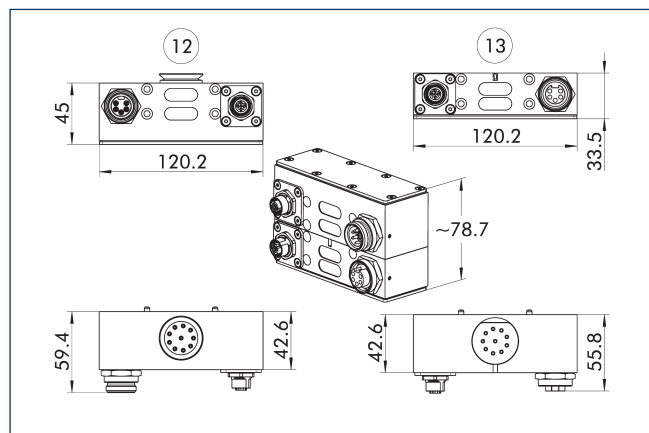


### Technical data

| Description                   |          | COS TP-K                                                                    | COS TP-A                                                                    |
|-------------------------------|----------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| ID                            |          | 1586740                                                                     | 1586738                                                                     |
| Suitable on                   |          | Change head                                                                 | Tool                                                                        |
| Screw connection diagram      |          | J                                                                           | J                                                                           |
| Transmission type             |          | Communication                                                               | Communication                                                               |
| Weight                        | [kg]     | 0.46                                                                        | 0.35                                                                        |
| Min./max. ambient temperature | [°C]     | 5/60                                                                        | 5/60                                                                        |
| Protection class IP           |          | IP64 (only in a coupled state)                                              | IP64 (only in a coupled state)                                              |
| Bus system                    |          | PROFINET, EtherNet                                                          | PROFINET, EtherNet                                                          |
| Transmission Speed            | [Mbit/s] | 10/100                                                                      | 10/100                                                                      |
| Number of pin contacts        |          | 5                                                                           | 5                                                                           |
| Nominal current               | [A]      | 5                                                                           | 5                                                                           |
| Alternating voltage           | [V AC]   | 250                                                                         | 250                                                                         |
| Direct voltage                | [V DC]   | 250                                                                         | 250                                                                         |
| Electrical connection         |          | M12, Female D-Coded connector                                               | M12, Female D-Coded connector                                               |
| Outlet connection             |          | radial                                                                      | radial                                                                      |
| Electrical connection         |          | 7/8" connector, 5-pin                                                       | 7/8" socket, 5-pin                                                          |
| Electrical connection outlet  |          | radial                                                                      | radial                                                                      |
| Special properties            |          | Simultaneous feeding through of PROFINET/EtherNet and 5-pin voltage supply. | Simultaneous feeding through of PROFINET/EtherNet and 5-pin voltage supply. |

① For mounting on CPS 040 and CPS 041, an additional spacer (ID 1584116) is required.

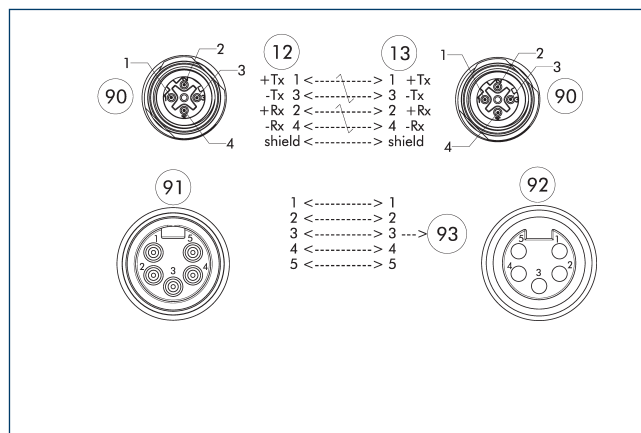
## Combination COS TP-K and COS TP-A



12 Master side

13 Adapter side

## Pin assignment for COS TP-K with COS TP-A



12 Master side

13 Adapter side

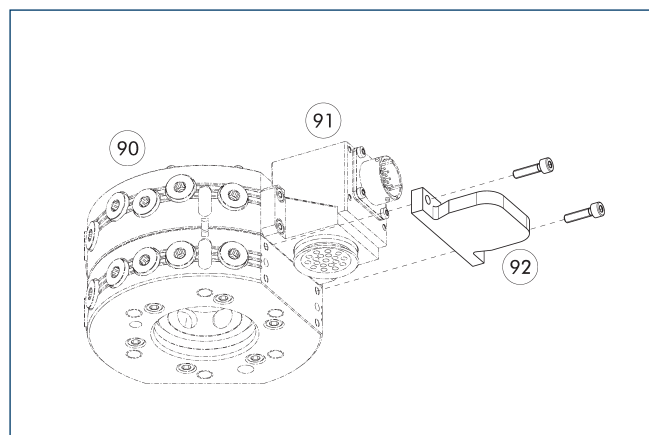
90 M12, Female D-Coded connector

91 7/8" connector, 5-pin

92 7/8" socket, 5-pin

93 leading pin

## Cover COS JPC-A



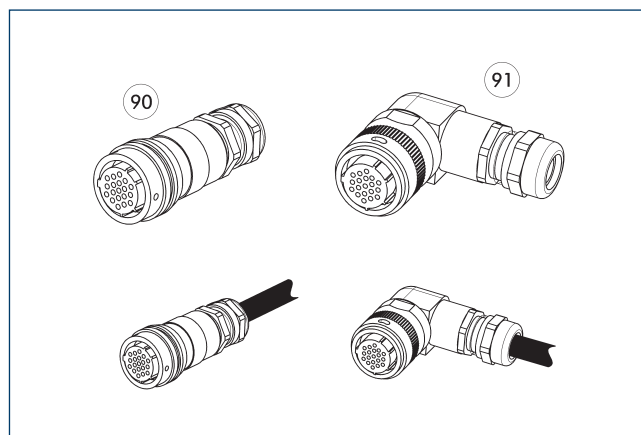
90 Automatic tool changers CPS

92 Cover COS JPC-A

91 Optional module COS master

| Description | ID      | Suitable for                                        |
|-------------|---------|-----------------------------------------------------|
| Cover       |         |                                                     |
| COS JPC-A   | 1584095 | For many electrical modules with screw-on pattern J |

## Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

| Description              | ID      |  |
|--------------------------|---------|--|
| Straight cable connector |         |  |
| KBU-7/8-G 5P             | 9957558 |  |
| KST-7/8-G 5P             | 9957559 |  |
| KST-M12-G 4DP            | 9965967 |  |



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