

# One Robot. Many Jobs. **Ultimate Flexibility.**

Picture this → a robot arm in a busy manufacturing cell. One moment, it's gripping a machined part. The next, it's tightening a fastener. Then it's inspecting the product before handing it off to the next station.

**NO** operator intervention. **NO** downtime.

Just smooth, autonomous transitions from one task to the next.

What's making that flexibility possible?

A tool changer. And not just any tool changer.....a **SCHUNK** tool changer. And it just got better!

SCHUNK is excited to introduce the new CPS and CMS line of tool changers, replacing their existing SWS line. **See cross-reference guide below.**



**SWS Tool Changer**



**CPS**



**CMS**

Size	14	17	6
Operation	Pneumatic	Pneumatic	Manual
Handling Weight	1.4-300kg	2-990kg	9-58kg
Moment Load MX	2.8-7170Nm	2-10,000Nm	22.5-478Nm
Moment Load MZ	3.45-3800Nm	2-4500Nm	15-465Nm
Pneumatic Feed Thru	Up to 9	Up to 12	Up to 12
SWO Module Compatible	Yes	Yes	Yes
Lock Status Sensing	Yes	Yes	Yes
Repeatability	.015mm	.015mm	0.02mm

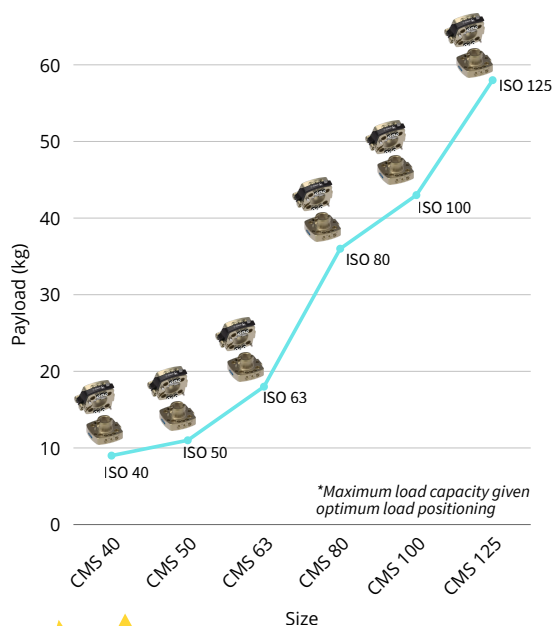
## The Lineup We Recommend

### CMS — Manual, fast, and lab/low-mix friendly

When you need human-initiated changeovers (R&D, pilots, short runs), CMS shines: lever-lock, compact form factor, optional sensing, and integrated air paths. Sizes cover small to surprisingly stout payloads.

### Why CMS

- Push-lever locking; optional lock/tool presence sensors for process assurance.
- Integrated radial/axial pneumatic/vacuum feed-throughs; direct-mount electrical/fluid modules.
- Repeatability to 0.02 mm (e.g., CMS-050), max payload ~11 kg at that size; series scales higher (up to ~58 kg).



All air feed-throughs can be applied radially

Previously: master side only 50% applicable radially

Locking and tool presence monitoring is integrated in all sizes

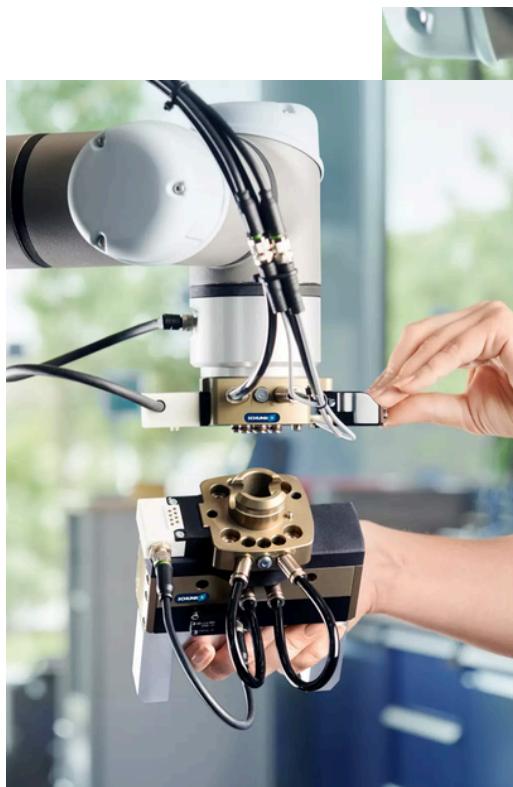
Previously: only integrated from size 100 upwards



Direct screw mounting of electrical, pneumatic and fluid modules

Previously: adapter plate required

Watch this!

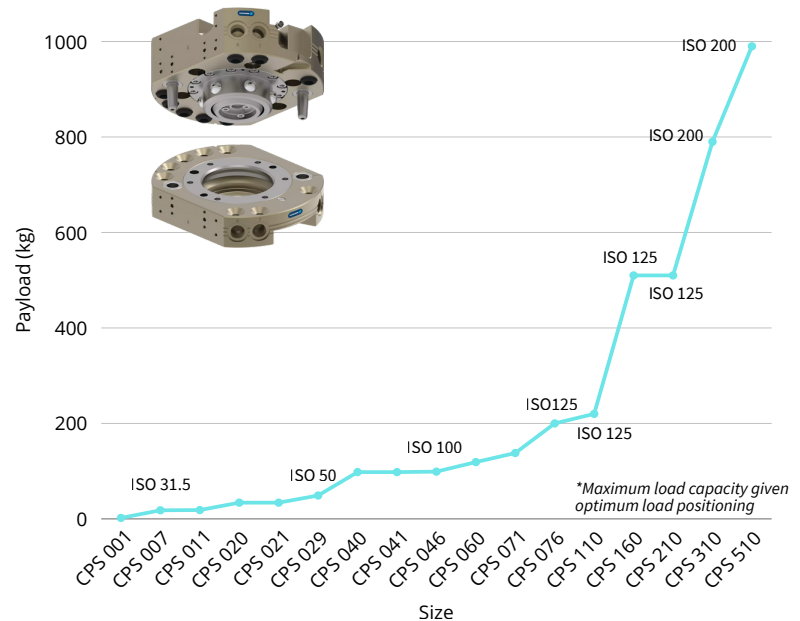


## CPS — Automatic, high-speed, production grade

The CPS is SCHUNK's new pneumatic auto tool changer for continuous operation. It locks via piston-actuated balls and includes a self-retaining spring that keeps the tool secure if air drops, minimizing gap formation. 17 sizes, hardened internals, and a broad module ecosystem.

### Why CPS

- Self-retaining in air-loss events; spring supports the locked position.
- 17 sizes; hardened steel functional parts for durability.
- Optional modules handle signals, pneumatics, vacuum, and fluids/communications; adapter plates streamline mounting and tool storage integration. Supports existing SWS modules.
- Performance example (CPS-046): repeatability 0.015 mm, lock force 5,800 N, up to 650 L/min per G1/8 feed-through—plenty for high-flow pneumatics or purge air on process tools.
- Scales to ~1,000 kg handling weight at the top end, covering large robots and robust processes.



**Welder/EOAT power & utilities?** CPS supports mixed media via plug-in modules (air, vacuum, fluids, and electrical/signal/comm). Size the module set for your amperage/signal and cooling/air needs and you're good, no extra slip-ring stack required.



#### Sensor queries

Optionally available sensors enable a process-safe verification of the locking status of the quick-change master and the presence of the adapter

#### New locking mechanism

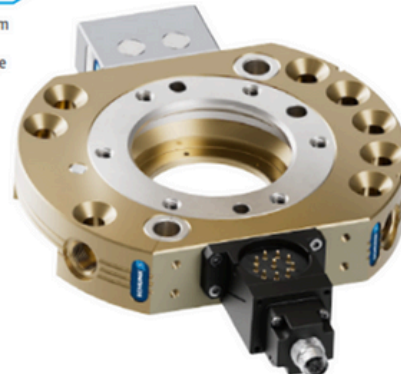
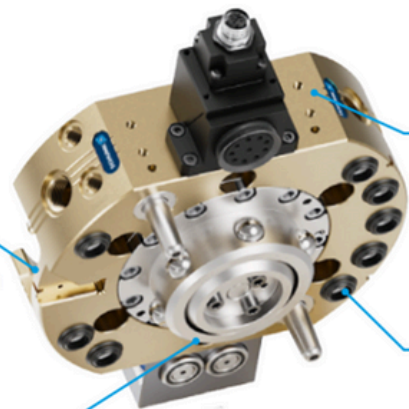
The new self-retaining locking system with an integrated spring ensures reliable coupling between the change master and the adapter, enhancing operational safety in the event of an unexpected air pressure drops

#### Easy assembly

Assembly can be done quickly and easily via standardized adapter plates or ISO flange patterns

#### Integrated energy supply

The integrated pneumatic pass-throughs ensure a reliable supply of the handling modules and tools



Watch this!





## SWS → CPS Crossover (What changes, what doesn't)

**The short version:** CPS is the successor for legacy SWS quick-change systems and is **1:1 compatible with existing masters/adapters**—so you can expand or refresh without reteaching or re-plumbing your entire cell.

### Part number crossovers example:

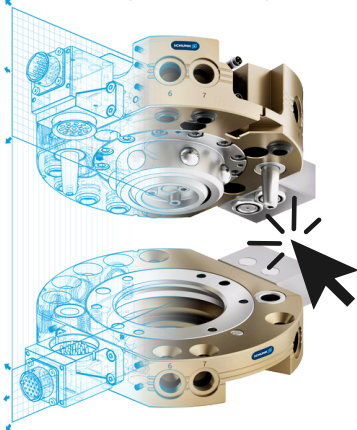
SWK-046-0-0-000-0-SM crosses over to CPS 046-K-S:

1. Series	3. Tool Side	2. Body Size	Modules				4. Sensing/Monitoring
S W	K -	0 4 6 -	0 -	0 -	0 0 0 -	0 -	S M

1. Series	2. Body Size	3. Tool Side	4. Sensing/Monitoring
C P S	0 4 6	- K	- S

*\*Modules sold separately*

### Tool changer configurator



## See It Before You Spec It

At Donald Engineering, we offer live demos of SCHUNK's tool changers. Whether you're building a new line or upgrading an existing cell, our engineers can help you integrate the right solution for your process. Contact us today, our Sales Engineers are ready to assist!

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