

Plug & Play Tip Changer

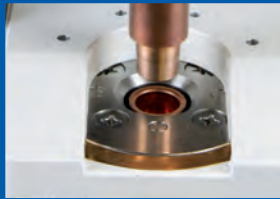
▶ Standard Tip Changer KE KIKK-EL SET

KYOKUTOH's new plug-and-play system for an efficient tip changing comes as a complete set for simple and fast integration. Its compact design is made for intuitive operating.

High quality, longevity and easy maintenance ensure efficient and cost effective cap changing. Due to its low weight, the tip changer can also be used on a robotic end effector.



Innovative electrode magazines



Prevents damage to the shank



Compact design

Advantages

- Plug-and-play system for easy and quick integration
- Complete, innovative, compact cap changing system
- Separate magazines for lower and upper electrode caps
- Robust, low-vibration stand
- Supports fast, tool-free exchange of electrode magazines
- Pneumatic driven (DH-SVR changer/dresser servo driven)
- Options and expansions for variety of configurations
- Approximately 25 sec. for the complete cap exchange process
- Compatible with all established industrial network standards
- Easy optional gripper installation is possible

► Standard Type KE KIKK-EL SET

The **KE KIKK-EL SET** tip changer is a complete plug-and-play solution with fast and tool-less cap magazine exchange. The KIKK-EL is available for caps with 13 mm, 16 mm and 20 mm diameters. It is a reliable, versatile tip changer designed for continuous operation in the automotive industry.

- Horizontally orientation
- Height-adjustable stand
- Inductive fork sensor for cap presence monitoring
- Inductive sensor for magazine monitoring



KE KIKK-EL SET

Vertically adjustable

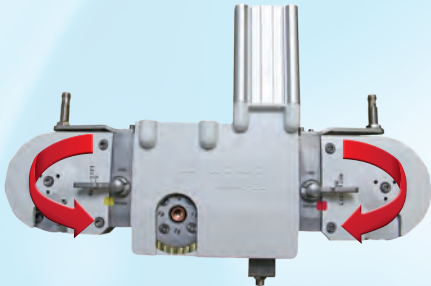
KE Tip Changer SET	Standard Model KIKK-EL	Other Models		
		KIKK-MR	KIKK-SG	DH-SVR2
				
Feature Set	Standard EUR	Standard	Short gear	Two-in-one
Dimensions (LxWxH)	506 x 296 x 86 mm	497 x 272 x 106 mm	506 x 297 x 77 mm	523 x 247 x 169 mm
Pneumatic driven (4-6 bar)	✓	✓	✓	Servo
Weight (kg)	11	9.8	9.3	10.5 (without motor)
Electrode diameter (mm)	13 / 16 / 20	13 / 16 / 20	13 / 16 / 20	13 / 16 / 20
Special electrode caps (mm)	18 - 25	18 - 25	18 - 25	18 - 25
Special electrode length	○	○	○	○
Special electrode form	○	○	○	○
Magazine monitoring with inductive sensor	✓	✓	✓	✓
Magazine monitoring with limit switch	○	○	○	○
Fork sensor	○	○	○	—
Magazine seats for electrodes Ø13mm and Ø16mm	12	12	12	12
Magazine seats for electrodes Ø19mm and Ø20mm	10	10	10	10
Magazine lever monitoring	○	○	○	○
Adjustable in height (600-1000mm)	✓	✓	✓	○
Horizontally orientation	✓	✓	✓	✓
Other orientations	○	○	○	—
Gripper installation	○	○	○	—
Linear technology solution	—	—	—	—

✓ = included ○ = optional — = on request

► KIKK Features

► Magazine

Fast and simple magazine exchange does not require tools.



Hand-release the magazine lever



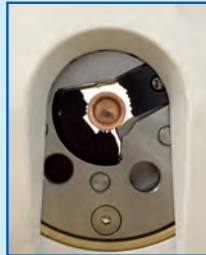
Remove the magazines

► Remover

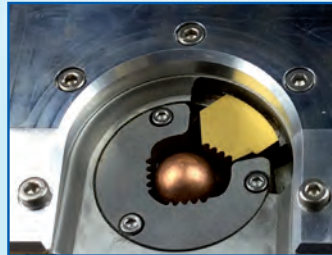
Clamping and removing process prevents damage to the shank.



Quadruple clamping
KIKK-EL



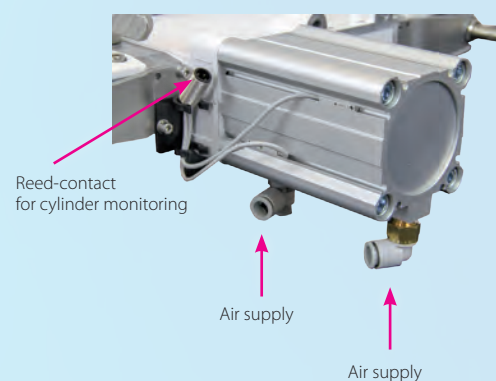
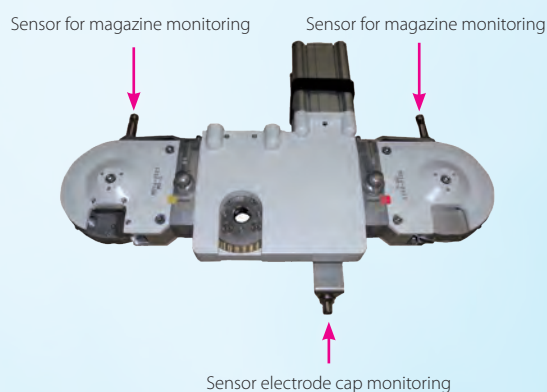
Double clamping
KIKK-MR and KIKK-SG



Quadruple clamping
DH-SVR2

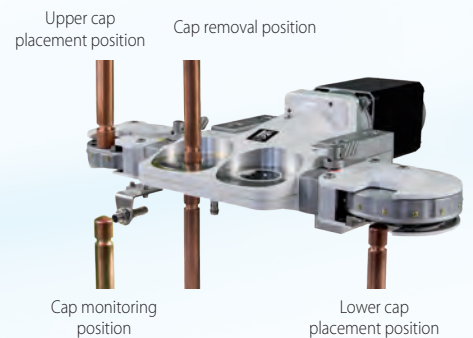
► Plug and Play

All components are pre-assembled and ready for operation.

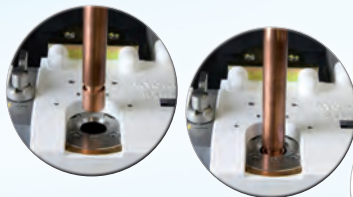


► KIKK cap exchange process

Fast cap exchange: The KIKK series changes both caps in 25 seconds.
The **DH-SVR2** allows tip dressing afterwards (approx. additional 8 sec.)



1.
The upper shank and electrode approach the gripper for removal



2.
The shank and electrode lower



3.
The gripper removes the upper cap



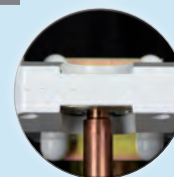
4.
The cap monitoring sensor or limit switch ensures the cap has been removed



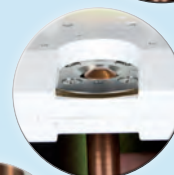
5.
The shank picks up a new cap at the magazine



6.
The cap-monitoring sensor or limit switch ensures the cap has been placed



7.
The lower shank and electrode approach the gripper for removal

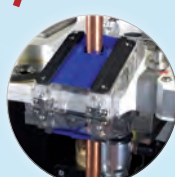


8.
The gripper removes the lower cap



9.
The cap monitoring sensor or limit switch ensures the cap has been removed

10.
The shank picks up a new cap at the magazine



11.
The **K INTELLIGENT-LINE DH-SVR2** also allows tip dressing right after the changing process to ensure weld face alignment

12.



Options



■ Fork tip presence sensors



■ Magazine lever monitor



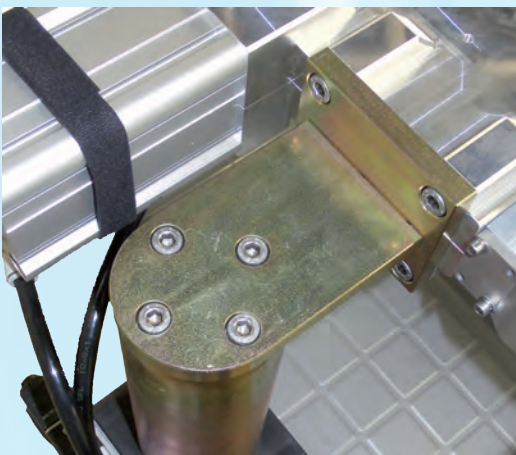
■ Cap diversion system



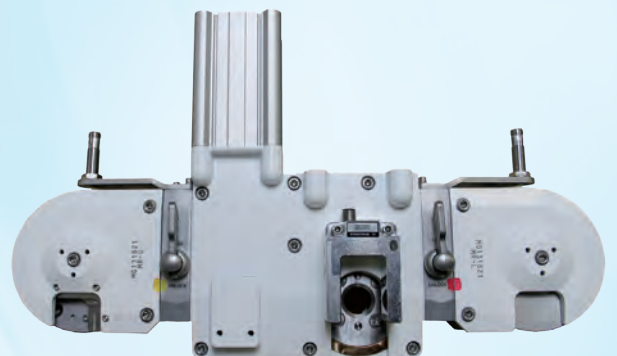
■ PROFINET interface module



■ Cap monitoring via limit switch



■ Fixed height for KIKK installation



■ Upside-down installation for screwed shanks

► Tip Changer Configuration Possibilities



■ KE KIKK-EL SET with
PROFINET standard module



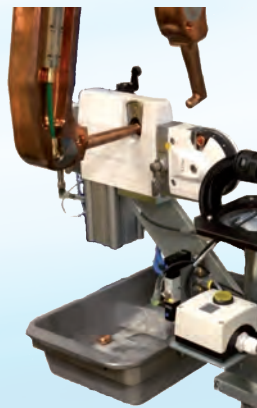
■ KE KIKK-EL SET
Upright installation



■ INTELLIGENT-LINE
KE DH-SVR2 SET



■ KE KIKK-EL SET
Offset combination of
tip dresser and changer



■ KE KIKK-EL SET
Customised solution
Installation to an existing stand



■ KE KIKK-EL SET
Combination with a
KYOKUTOH Tip dresser



■ KE KIKK-EL SET
Combination with a KYOKUTOH
Tip dresser and remote control box



■ KE KIKK-EL SET
Customised upright combination with a
KYOKUTOH tip dresser and valve cluster

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