

JBC

The Soldering Co.



Soldering Head for Robot

The best soldering technology applied to automation

Soldering tools for automation

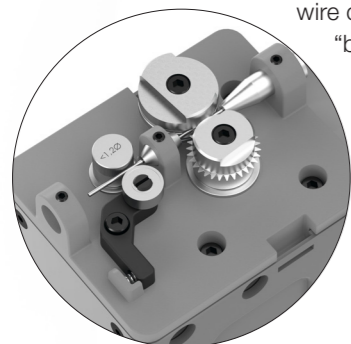
First selective soldering solution using automatic cartridge exchange

High quality soldering in automatic processes

HA Soldering Unit for Automation
HA Soldering Unit makes the **first selective soldering solution** featuring Automatic Cartridge Exchange available to the electronics industry. JBC offers two different versions, **HA245 for General Soldering** and **HA470 for intensive Heavy Duty Soldering**. They include TRA Automatic Soldering Iron, CSR Cartridge Stand, SFR Solder Feeder, CLR Tip Cleaner and UCR Control Box.

SFR Solder Feeder

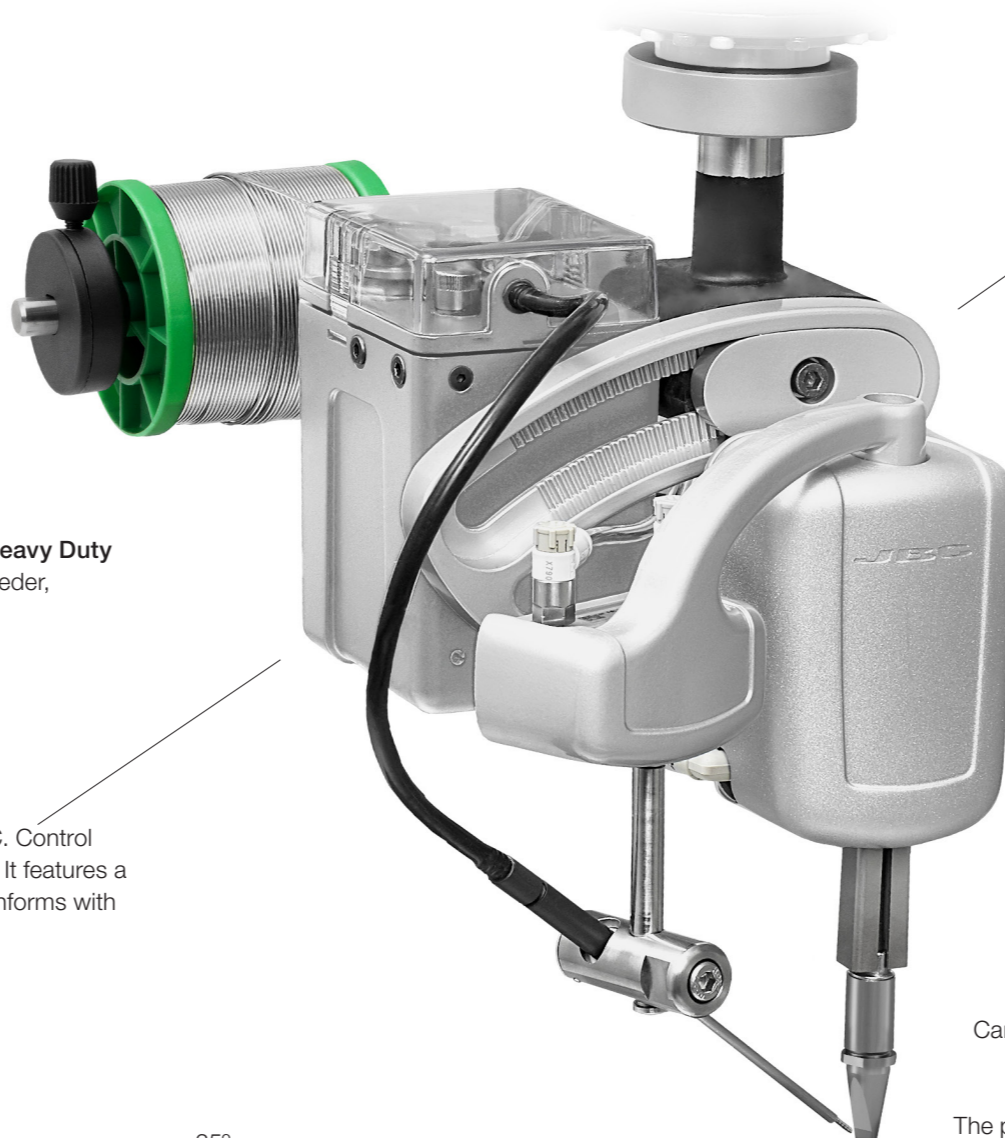
Designed for **automatic solder wire feeding** and controlled by a PC/PLC. Control parameters such as wire length and dispensing speed are customizable. It features a wire detector sensor and in case of any feeding error the system informs with "blocked up" or "consumed".



The solder feeder works with GSFR Guide Kits.

CLR Tip Cleaner

CLR performs a **thorough and gentle tip cleaning**, increasing heat transfer to maximize soldering quality. It features a large capacity tank with easy extraction and a large opening for easy tip access. CLR can be rotated up to 35° in both directions to facilitate the roboter arm access. **Metal and non-metal brushes** are designed for different usages, and they can be changed due to different soldering tasks requirement.



TRA245 / TRA470

Automatic Soldering Iron

Actuates by compressed air, allowing **fast and automatic cartridge exchange** when cartridges have worn out or when different cartridge geometries are used in the same soldering process.

If, instead of automatic cartridge change, manual change is required, the combination of TR Soldering Iron and RBA Soldering Head should be used.

CSR245 / CSR470 Cartridge Stand

Cartridge Stand mechanism works with compressed air to **automatically fix and release the cartridges**. The position of the stand can be adjusted by pivoting up to 35° in both directions and can therefore be **optimally adapted to the working position**.



Communication

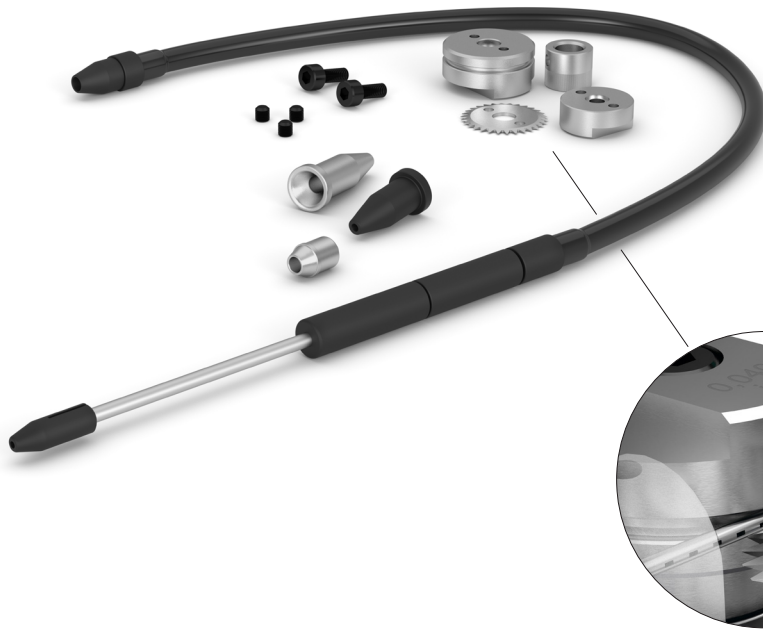


UCR245 / UCR470

Control Box

UCR Control Box manages TRA Automatic Soldering Iron with R245 and R470 Cartridges, specially developed for automated soldering processes. **More than 40 commands** help to control working parameters such as temperature, working mode and control box status. It also allows getting information about errors and hour counter.

GSFR Guide Kit for Automation



GSFR Guide Kit is used in combination with **SFR** Solder Feeder, which controls solder feeding speed and length.

Guide Kits for different solder wire diameters are available and exchangeable.

Available with or without solder wire perforation. The perforation allows better flux flow and outgassing, avoiding solder and flux splashing during the soldering process.

Without Solder Wire Perforation

Ref.	Size
GSFR04D03	Ø 0.4 mm / 0.015 in
GSFR05D03	Ø 0.5 mm / 0.019 in
GSFR06D03	Ø 0.6 mm / 0.23 in
GSFR08D03	Ø 0.8 mm / 0.031 in
GSFR10D03	Ø 1.0 mm / 0.039 in
GSFR12D03	Ø 1.1-1.2 mm / 0.043-0.047 in
GSFR15D03	Ø 1.3-1.5 mm / 0.051-0.059 in
GSFR16D03	Ø 1.6 mm / 0.062 in

With Solder Wire Perforation

Ref.	Size
GSFR08V03	Ø 0.8 mm / 0.031 in
GSFR10V03	Ø 1.0 mm / 0.039 in
GSFR12V03	Ø 1.2 mm / 0.047 in
GSFR15V03	Ø 1.5 mm / 0.059 in
GSFR15V03	Ø 1.6 mm / 0.062 in

See full Cartridge Range in our website.

JBC also offers the possibility to manufacture your special tip geometry.

