

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

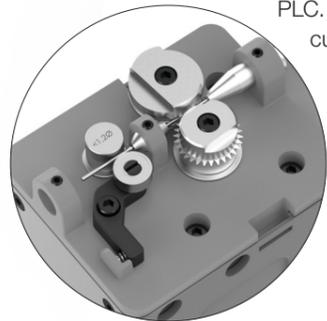
HA Soldering Unit for Automation

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 transportation** 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 transport error the system informs with "blocked up" or "consumed".



The solder feeder works with GSFR Guide Kits. These kits are compatible with solder wire diameters Ø 0.8, 1.0 and 1.5 mm (with solder wire perforation) and from Ø 0.5 up to 1.5 mm (without solder wire perforation). Guide tubes lengths are from 0.3 m to 1.5 m.

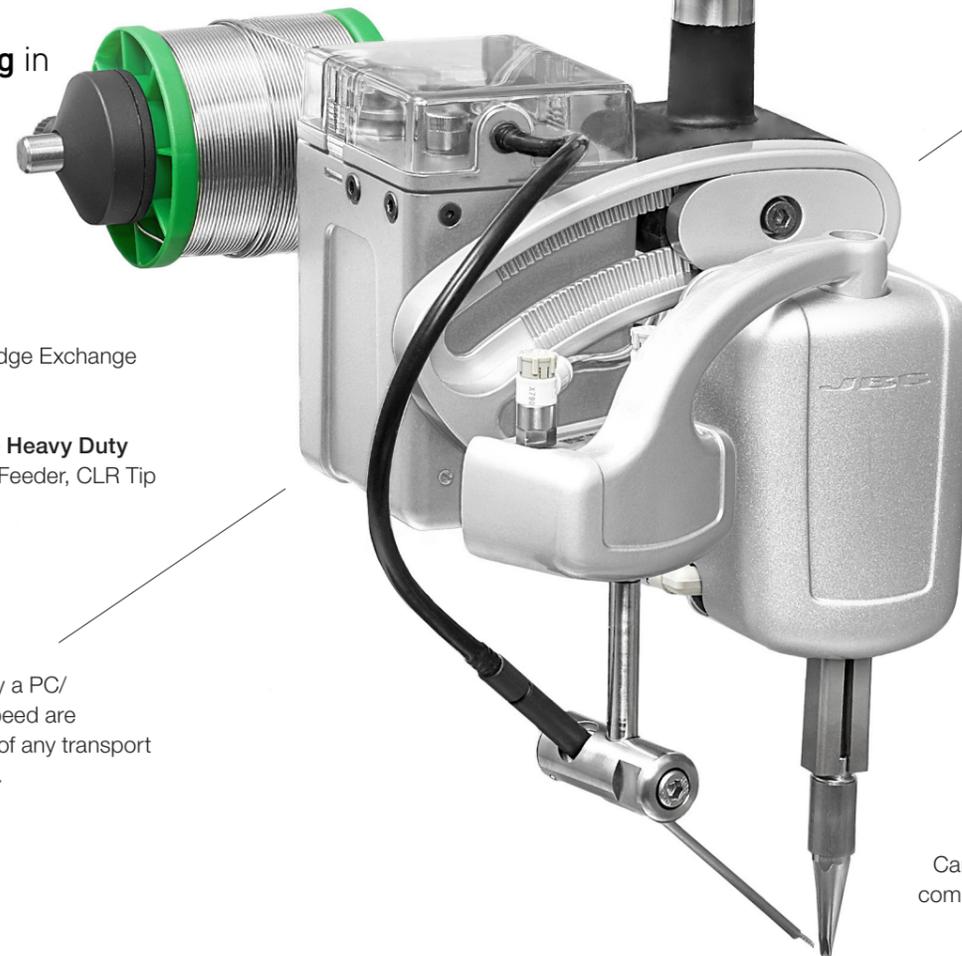
CLR Tip Cleaner

CLR performs a **through 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.



TRA Automatic Soldering Iron

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

If manual instead of automatic cartridge change with TRA is required, the option is the combination of TR Soldering Iron and RBA Soldering Head.

CSR 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**.



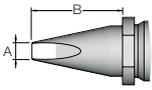
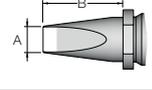
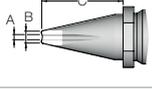
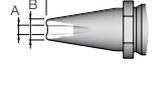
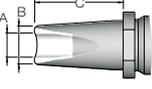
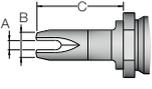
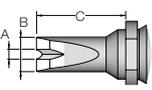
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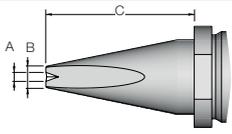
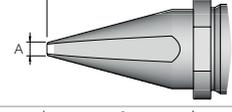
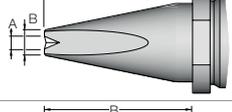
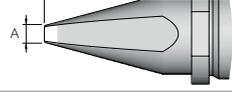


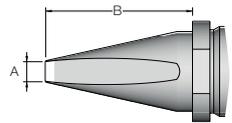
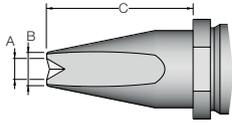
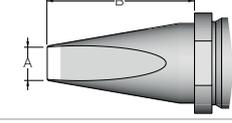
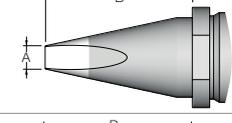
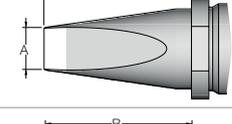
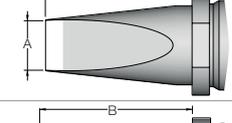
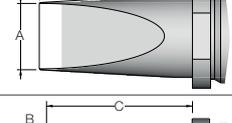
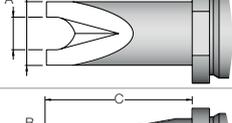
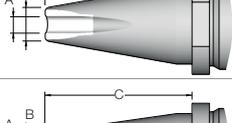
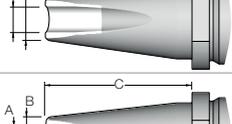
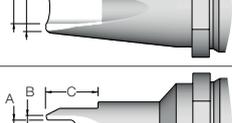
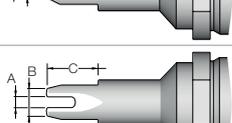
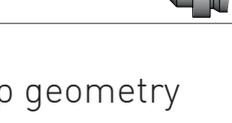
UCR Control Box

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, Sleep & Hibernation Modes and Control Box status. It also allows getting information about errors and hour counter.

Cartridge Range for automation

	Ref.	Size	
GENERAL PURPOSE	R245008	A = 2.2 x 1 mm B = 11.5 mm	
	R245007	A = 4 x 1.5 mm B = 11.5 mm	
BARREL	R245009	A = 0.8 mm B = 1.8 mm C = 11.5 mm	
	R245010	A = 1.5 mm B = 3 mm C = 11.5 mm	
	R245011	A = 2.5 mm B = 4 mm C = 11.5 mm	
	R245012	A = 3.5 mm B = 5 mm C = 11.5 mm	
DRAG	R245013	A = 1.25 mm B = 3.25 mm C = 11.5 mm	
	R245015	A = 1.3 mm B = 4.5 mm C = 11.5 mm	

	Ref.	Size	
GENERAL PURPOSE	R470018	A = 1 mm B = 2.5 mm C = 16.9 mm	
	R470019	A = 1.5 mm B = 16.9 mm	
	R470016	A = 1.5 mm B = 3 mm C = 16.9 mm	
	R470020	A = 2 mm B = 16.9 mm	

	Ref.	Size		
GENERAL PURPOSE	R470021	A = 2.5 mm B = 16.9 mm		
	R470017	A = 2.5 mm B = 4 mm C = 16.9 mm		
	R470022	A = 4 mm B = 16.9 mm		
	R470029	A = 2.5 mm B = 16.9 mm		
	R470023	A = 5 mm B = 16.9 mm		
	R470024	A = 6 mm B = 16.9 mm		
	R470025	A = 7.5 mm B = 16.9 mm		
	R470028	A = 3.8 mm B = 7.4 mm C = 16.9 mm		
	R470030	A = 2 mm B = 4 mm C = 16.9 mm		
	R470031	A = 3 mm B = 5 mm C = 16.9 mm		
BARREL	R470032	A = 4 mm B = 6 mm C = 16.9 mm		
	DRAG	R470026	A = 0.75 mm B = 2 mm C = 6 mm	
		R470027	A = 1.25 mm B = 3.25 mm C = 6 mm	

JBC also offers the possibility to manufacture your special tip geometry

