JBC
The Soldering Co.

Cartridge Guide
for Selective Soldering

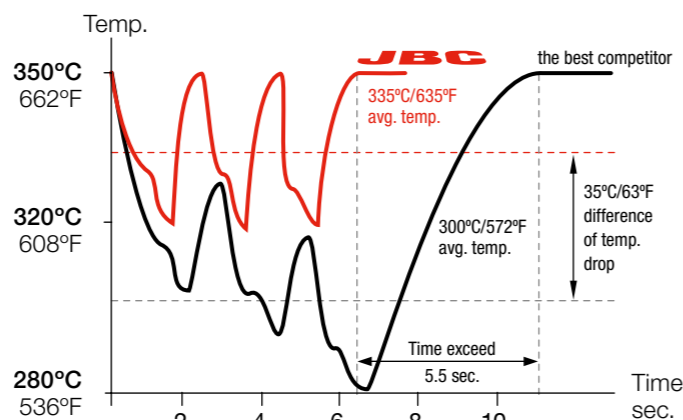The best soldering technology applied to automation

JBC Technology

Most efficient Soldering System

JBC **Selective Soldering** works with JBC Most Efficient Soldering System, which recovers tip temperature extremely quickly. This increases work efficiency and allows the user to work with lower temperatures.

Efficient Temperature Control
Comparative process of 3 solder joints

Temp.

350ºC
662ºF

320ºC
608ºF

280ºC
536ºF

335ºC/635ºF avg. temp.

the best competitor

35ºC/63ºF difference of temp. drop

300ºC/572ºF avg. temp.

Time exceed 5.5 sec.

Time sec.

2   4   6   8   10

Tips with JBC Technology only drop 30ºC (54ºF) where others drop as much as 70ºC (126ºF).

Enhanced Temperature Efficiency ▶ Increased Productivity + Better Quality

Cartridges with extended tip life

The essential part of the soldering iron is the tip so JBC has **over 50 models of cartridges** of different shapes and sizes for automation.

We offer the possibility to **manufacture your special tip geometry**. Do not hesitate to ask for: **customtips@jbctools.com.**

JBC has developed the most advanced technology based on the following principles:
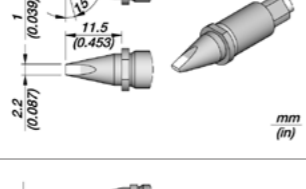
▶ **Excellent Heat Transfer**
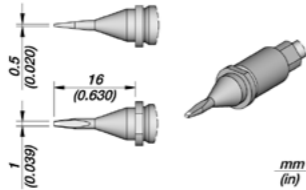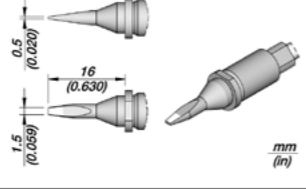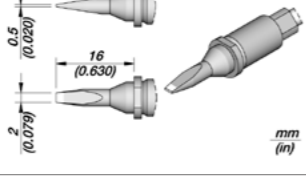The compact element reduces thermal barriers.

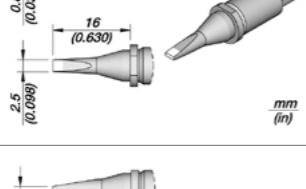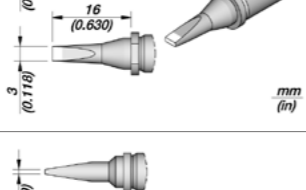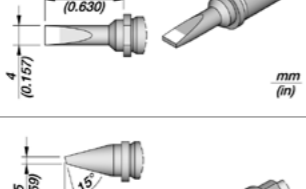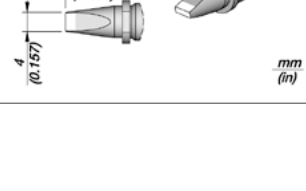▶ **Instantaneous Heating**
A fully-integrated thermal sensor in the heater ensures quick temperature recovery.

▶ **Great Durability**
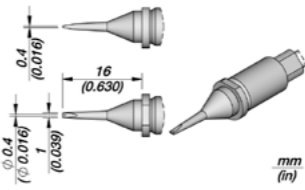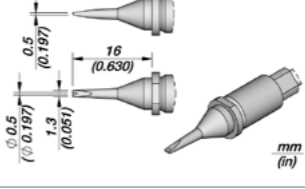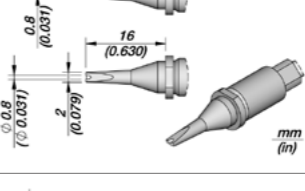The intelligent algorithm control program extends tip life.
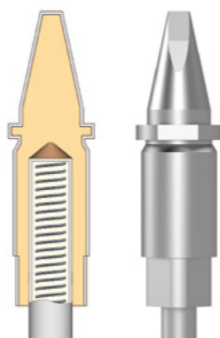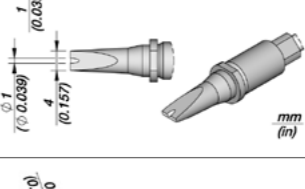
Our Cartridge Range is steadily growing as we are determined to respond to our clients' specific needs, cooperating closely with them to create **the right solution.**

R245 Cartridge Range
for **TRA245** and **TR245** Automated Processes

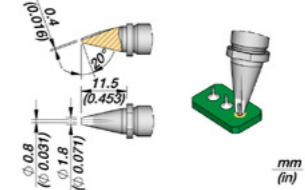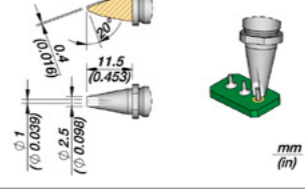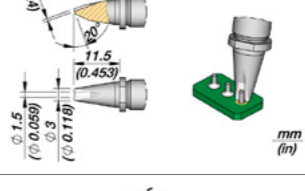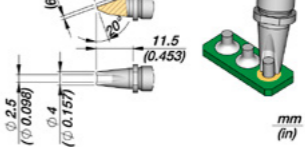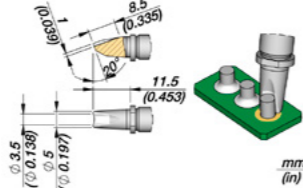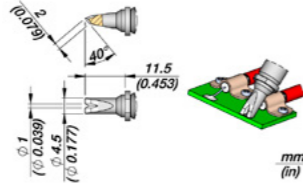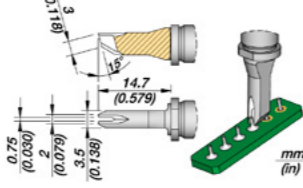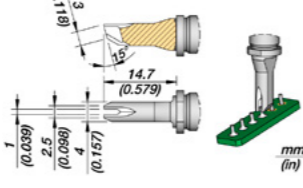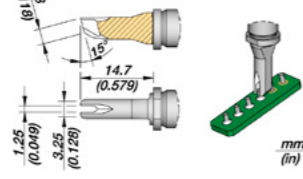|	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R245016	Cartridge Chisel 1 x 0.5 mm 0.039 x 0.020 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245017	Cartridge Chisel 1.5 x 0.5 mm 0.059 x 0.020 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245018	Cartridge Chisel 2 x 0.5 mm 0.079 x 0.020 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245008	Cartridge Chisel 2.2 x 1 mm S1 0.087 x 0.039 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245019	Cartridge Chisel 2.5 x 0.8 mm 0.098 x 0.031 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245020	Cartridge Chisel 3 x 1 mm 0.118 x 0.039 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245021	Cartridge Chisel 4 x 1 mm 0.157 x 0.039 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245007	Cartridge Chisel 4 x 1.5 S1 mm 0.157 x 0.059 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245

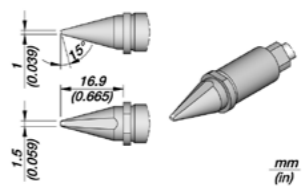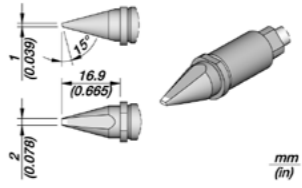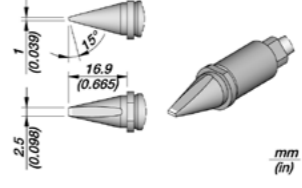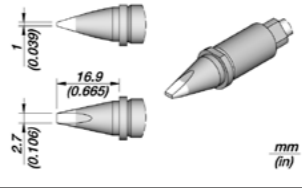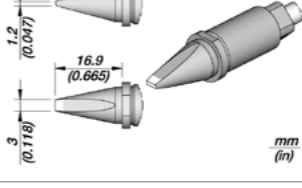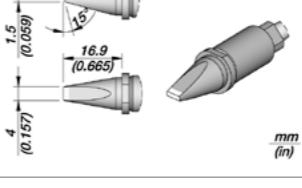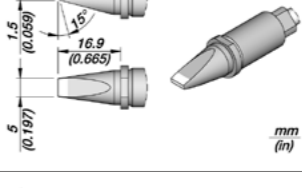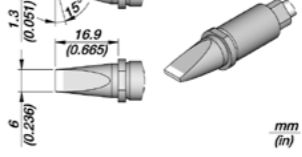|	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R245022	Cartridge Grooved Chisel 1 x 0.4 mm 0.039 x 0.016 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245023	Cartridge Grooved Chisel 1.3 x 0.5 mm 0.051 x 0.197 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245024	Cartridge Grooved Chisel 2 x 0.8 mm 0.079 x 0.031 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245025	Cartridge Grooved Chisel 4 x 1 mm 0.157 x 0.039 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245009	Cartridge Pin / Connector Ø 0.8 mm S1 Ø 0.031 in		Through-hole Cable soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245028	Cartridge Pin / Connector Ø 1 mm Ø 0.039 in		Through-hole Cable soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245010	Cartridge Pin / Connector Ø 1.5 mm S1 Ø 0.059 in		Through hole Cable soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245011	Cartridge Pin / Connector Ø 2.5 mm S1 Ø 0.098 in		Through-hole Cable soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
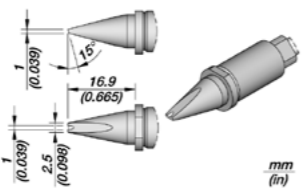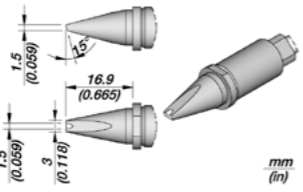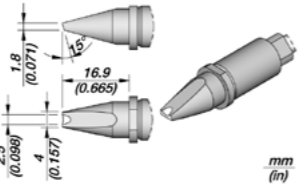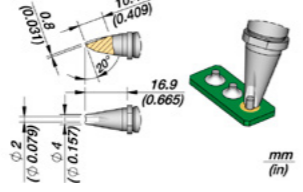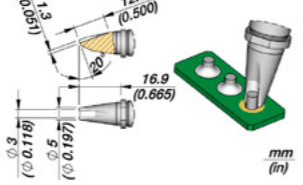
R245 Cartridge Range for **TRA245** and **TR245** Automated Processes

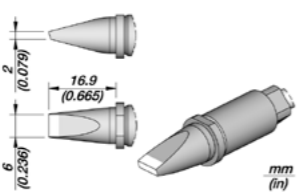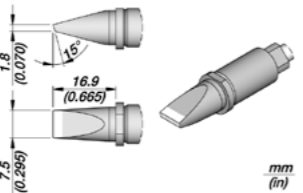|	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R245012	Cartridge Pin / Connector Ø 3.5 mm S1 Ø 0.138 in		Through-hole Cable soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245015	Cartridge Pin / Connector Ø 1 mm Ø 0.039 in		Through-hole Cable soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245026	Cartridge Drag 0.75 mm 0.029 in		Drag soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245027	Cartridge Drag Ø 1 mm Ø 0.039 in		Drag soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245029	Cartridge Drag 1.25 mm S1 0.049 in		Drag soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
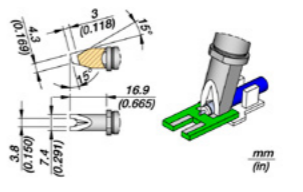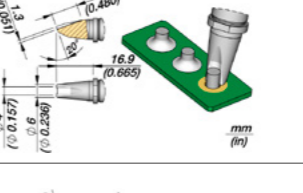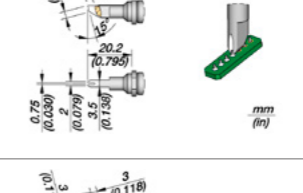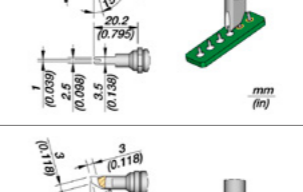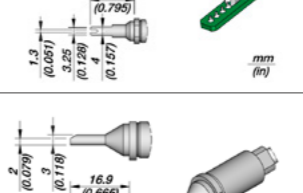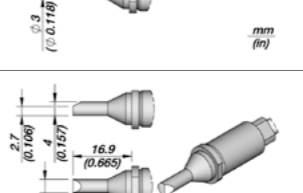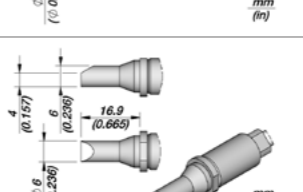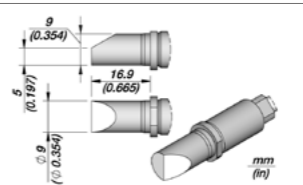
R470 Cartridge Range
for **TRA470** and **TR470** Automated Processes

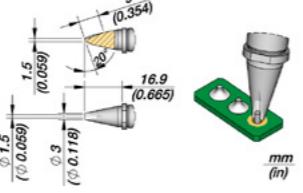|	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R470019	Cartridge Chisel 1.5 x 1 mm S1 0.059 x 0.039 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470020	Cartridge Chisel 2 x 1 mm S1 0.078 x 0.039 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470021	Cartridge Chisel 2.5 x 1 mm S1 0.098 x 0.039 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470029	Cartridge Chisel 2.7 x 1 mm 0.098 x 0.039 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470034	Cartridge Chisel 3 x 1.2 mm 0.118 x 0.047 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470022	Cartridge Chisel 4 x 1.5 mm S1 0.157 x 0.059 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470023	Cartridge Chisel 5 x 1.5 mm S1 0.197 x 0.059 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470024	Cartridge Chisel 6 x 1.3 mm S1 0.236 x 0.051 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R470035	Cartridge Chisel 6 x 2 mm 0.236 x 0.079 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470025	Cartridge Chisel 7.5 x 1.8 mm S1 0.295 x 0.070 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470042	Cartridge Grooved Chisel 2.5 x 1 mm 0.098 x 0.039 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470043	Cartridge Grooved Chisel 3 x 1.5 mm 0.118 x 0.059 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470044	Cartridge Grooved Chisel 4 x 1.8 mm 0.157 x 0.071 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470041	Cartridge Pin / Connector Ø 1.5 mm Ø 0.059 in		Through-hole Cable soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470030	Cartridge Pin / Connector Ø 2 mm Ø 0.079 in		Through-hole Cable soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470031	Cartridge Pin / Connector Ø 3 mm Ø 0.118 in		Through-hole Cable soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R470028	Cartridge Pin / Connector Ø 3.8 mm Ø 0.150 in		Through-hole Cable soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470032	Cartridge Pin / Connector Ø 4 mm Ø 0.157 in		Through-hole Cable soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470045	Cartridge Drag 0.75 mm S2 0.029 in		Drag soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470036	Cartridge Drag 1 mm 0.039 in		Drag soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470046	Cartridge Drag 1.3 mm S2 0.051 in		Drag soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470037	Cartridge Bevel Ø 3 mm Ø 0.118 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470038	Cartridge Bevel Ø 4 mm Ø 0.157 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470039	Cartridge Bevel Ø 6 mm Ø 0.236 in		General use Sheet metal	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470040	Cartridge Bevel Ø 9 mm Ø 0.354 in		General use Sheet metal	Soldering Unit: HA470 Cartridge Stand: CS2R470

Notes

ESD safe

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