JBC
The Soldering Co.

Cartridge Guide
for Selective Soldering

The best soldering technology applied to automation

A global organization at your service

JBC is a global company with a distributor network spanning 5 continents that guarantees a solid commercial organization with quick and efficient service.

The power of experience

More than 95 years of experience have placed JBC at the technological forefront of tools for soldering and rework operations in electronics. Innovation, efficiency and reliability are the key features of a wide range of products which have been designed to satisfy the most demanding requirements of professionals.

High technology, superior quality

Product perfection is one of the main objectives of JBC's improvement and development program.
The R&D department has created the most innovative soldering technologies, which JBC is proud to present in this catalogue.

CE
ESD safe

All JBC products comply with CE standards and ESD recommendations.

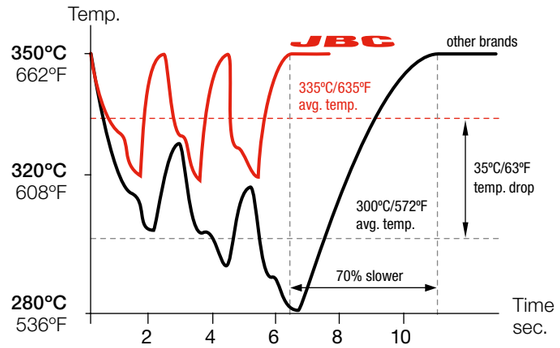
BORN FOR LEAD FREE

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



Tips with JBC Technology only drop 30°C (54°F) where others drop as much as 70°C (126°F).

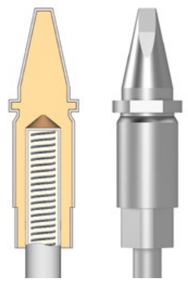
Enhanced Temperature Efficiency ➤ Increased Productivity + Better Quality

Cartridges with extended tip life

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

JBC has developed the most advanced technology based on the following principles:

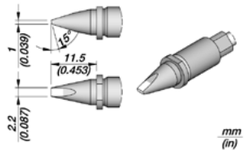
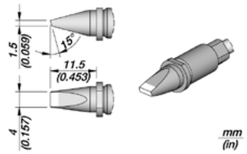
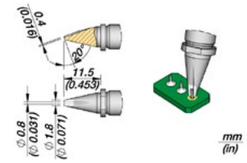
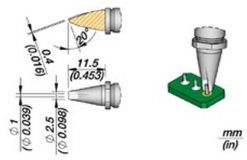
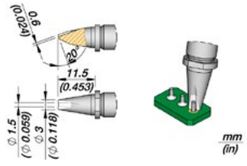
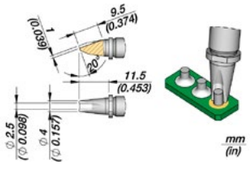
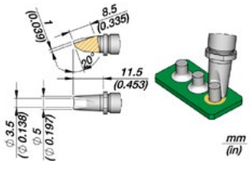
- **Excellent Heat Transfer**
  The compact element reduces thermal barriers.
- **Instantaneous Heating**
  A fully-integrated thermal sensor in the heater ensures quick temperature recovery.
- **Great Durability**
  The intelligent algorithm control program extends tip life.

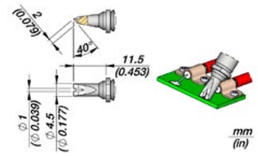
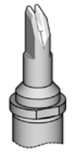
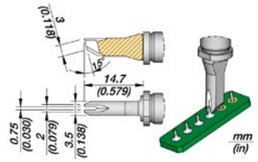
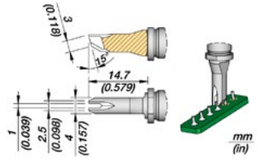
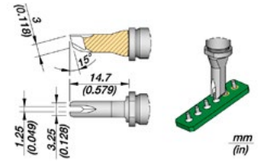


We offer the possibility to **manufacture your special tip geometry**. Do not hesitate to ask for: **customtips@jbctools.com.**

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.**

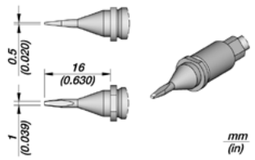
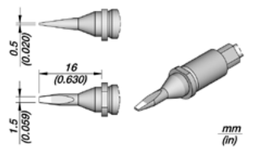
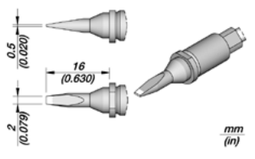
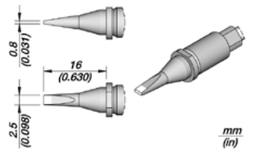
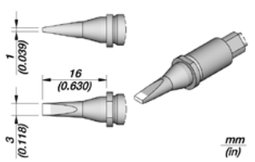
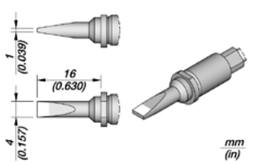
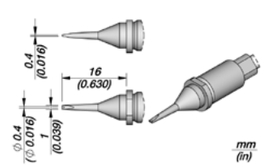
R245 Cartridge Range
for TRA245 and TR245 Automated Processes

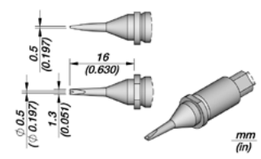
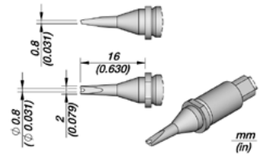
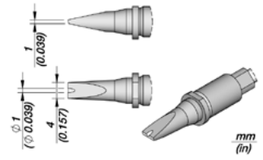
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R245008	Chisel Cartridge 2.2 x 1 mm S1 0.087 x 0.039 in		General use	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245007	Chisel Cartridge 4 x 1.5 S1 mm 0.157 x 0.059 in		General use	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245009	Barrel Cartridge Ø 0.8 mm S1 Ø 0.031 in		Through-hole Cable soldering	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245028	Barrel Cartridge Ø 1 mm Ø 0.039 in		Through-hole Cable soldering	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245010	Barrel Cartridge Ø 1.5 mm S1 Ø 0.059 in		Through hole Cable soldering	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245011	Barrel Cartridge Ø 2.5 mm S1 Ø 0.098 in		Through-hole Cable soldering	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245012	Barrel Cartridge Ø 3.5 mm S1 Ø 0.138 in		Through-hole Cable soldering	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R245015	Barrel Cartridge Ø 1 mm Ø 0.039 in		Through-hole Cable soldering	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245026	Drag Cartridge 0.75 mm 0.029 in		Drag soldering	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245027	Drag Cartridge Ø 1 mm Ø 0.039 in		Drag soldering	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245029	Drag Cartridge 1.25 mm S1 0.049 in		Drag soldering	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245

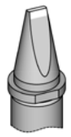
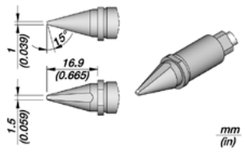
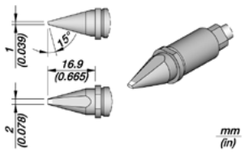
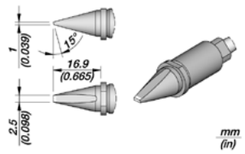
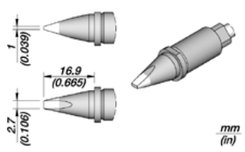
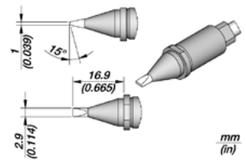
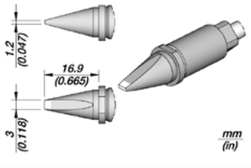
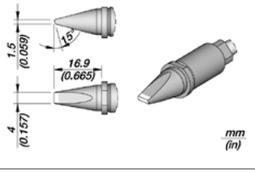
R245L Cartridge Range
for **TRA245** and **TR245** Automated Processes

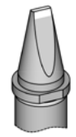
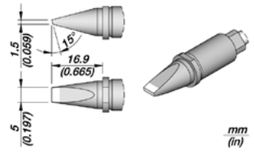
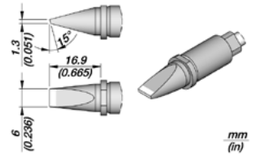
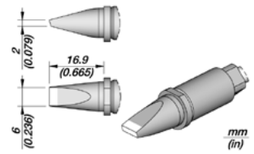
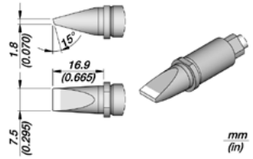
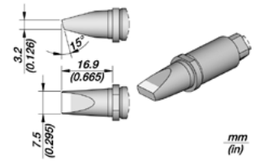
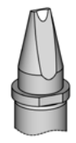
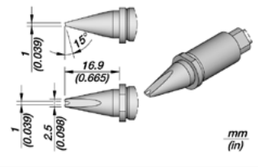
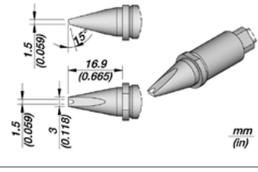
R245L Cartridges have a longer and sharper design on the tip for easier access on hard-to-reach applications.

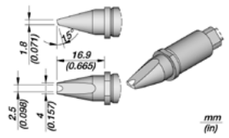
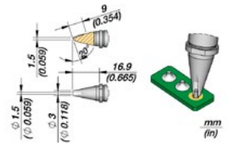
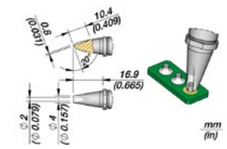
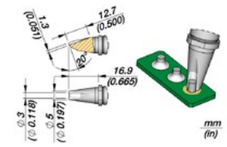
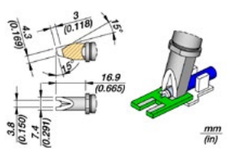
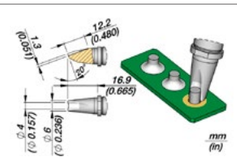
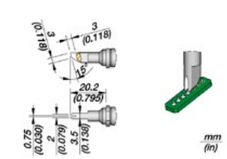
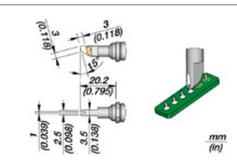
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R245016	Chisel Cartridge 1 x 0.5 mm 0.039 x 0.020 in		General use	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245017	Chisel Cartridge 1.5 x 0.5 mm 0.059 x 0.020 in		General use	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245018	Chisel Cartridge 2 x 0.5 mm 0.079 x 0.020 in		General use	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245019	Chisel Cartridge 2.5 x 0.8 mm 0.098 x 0.031 in		General use	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245020	Chisel Cartridge 3 x 1 mm 0.118 x 0.039 in		General use	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245021	Chisel Cartridge 4 x 1 mm 0.157 x 0.039 in		General use	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245022	Grooved Chisel Cartridge 1 x 0.4 mm 0.039 x 0.016 in		General use	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R245023	Grooved Chisel Cartridge 1.3 x 0.5 mm 0.051 x 0.197 in		General use	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245024	Grooved Chisel Cartridge 2 x 0.8 mm 0.079 x 0.031 in		General use	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245
	R245025	Grooved Chisel Cartridge 4 x 1 mm 0.157 x 0.039 in		General use	Soldering Unit: HA245, HM245 Cartridge Stand: CS2R245

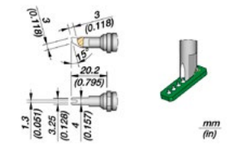
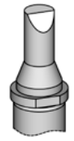
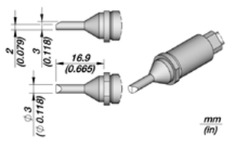
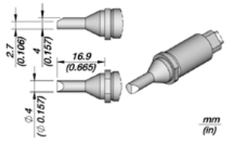
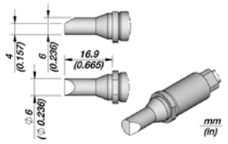
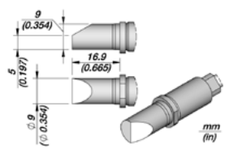
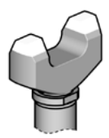
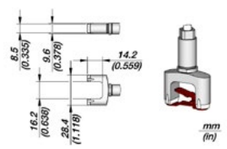
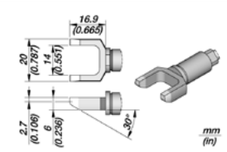
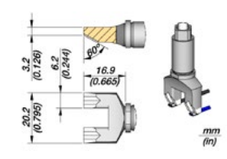
R470 Cartridge Range
for **TRA470** and **TR470** Automated Processes

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R470019	Chisel Cartridge 1.5 x 1 mm S1 0.059 x 0.039 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470020	Chisel Cartridge 2 x 1 mm S1 0.078 x 0.039 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470021	Chisel Cartridge 2.5 x 1 mm S1 0.098 x 0.039 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470029	Chisel Cartridge 2.7 x 1 mm 0.098 x 0.039 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470048	Chisel Cartridge 2.9 x 1 mm 0.114 x 0.039 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470034	Chisel Cartridge 3 x 1.2 mm 0.118 x 0.047 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470022	Chisel Cartridge 4 x 1.5 mm S1 0.157 x 0.059 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R470023	Chisel Cartridge 5 x 1.5 mm S1 0.197 x 0.059 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470024	Chisel Cartridge 6 x 1.3 mm S1 0.236 x 0.051 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470035	Chisel Cartridge 6 x 2 mm 0.236 x 0.079 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470025	Chisel Cartridge 7.5 x 1.8 mm S1 0.295 x 0.070 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470047	Chisel Cartridge 7.5 x 3.2 mm 0.295 x 0.126 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470042	Grooved Chisel Cartridge 2.5 x 1 mm 0.098 x 0.039 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470043	Grooved Chisel Cartridge 3 x 1.5 mm 0.118 x 0.059 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R470044	Grooved Chisel Cartridge 4 x 1.8 mm 0.157 x 0.071 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470041	Barrel Cartridge Ø 1.5 mm Ø 0.059 in		Through-hole Cable soldering	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470030	Barrel Cartridge Ø 2 mm Ø 0.079 in		Through-hole Cable soldering	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470031	Barrel Cartridge Ø 3 mm Ø 0.118 in		Through-hole Cable soldering	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470028	Barrel Cartridge Ø 3.8 mm Ø 0.150 in		Through-hole Cable soldering	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470032	Barrel Cartridge Ø 4 mm Ø 0.157 in		Through-hole Cable soldering	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470045	Drag Cartridge 0.75 mm S2 0.029 in		Drag soldering	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470036	Drag Cartridge 1 mm 0.039 in		Drag soldering	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470

R470 **Cartridge Range** for **TRA470** and **TR470** Automated Processes

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R470046	Drag Cartridge 1.3 mm S2 0.051 in		Drag soldering	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	**R470037**	Bevel Cartridge Ø 3 mm Ø 0.118 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470038	Bevel Cartridge Ø 4 mm Ø 0.157 in		General use	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470039	Bevel Cartridge Ø 6 mm Ø 0.236 in		General use Sheet metal	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470040	Bevel Cartridge Ø 9 mm Ø 0.354 in		General use Sheet metal	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	**R470049**	Faston Terminal Cartridge 28.4 mm 1.118 in		Connectors	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470056	Faston Terminal Cartridge 20 mm 0.787 in		Connectors	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470
	R470058	Faston Terminal Cartridge 20.2 mm 0.795 in		Connectors	Soldering Unit: HA470, HM470 Cartridge Stand: CS2R470

ESD safe

www.jbctools.com

0034835/1024