

**JBC**

The Soldering Co.



## **Cartridge Guide** **for Automated Processes**

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 90 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.



JBC Soldering S.L. reserves the right to update, modify or delete any information without previous notice.

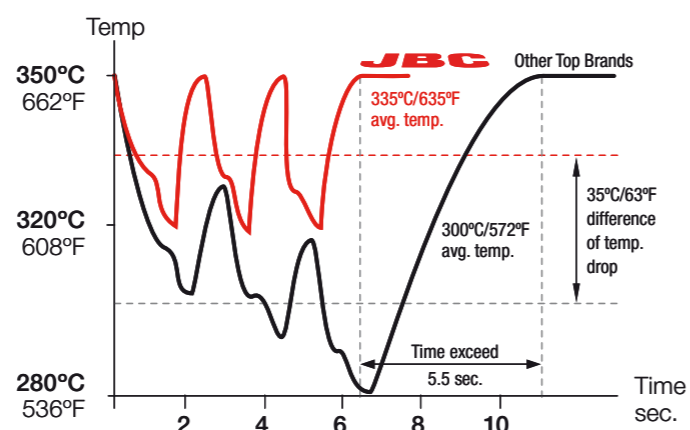
# The Most Efficient Soldering System

## JBC Exclusive Heating System

JBC **HA Soldering Unit** works with JBC Exclusive Heating 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)

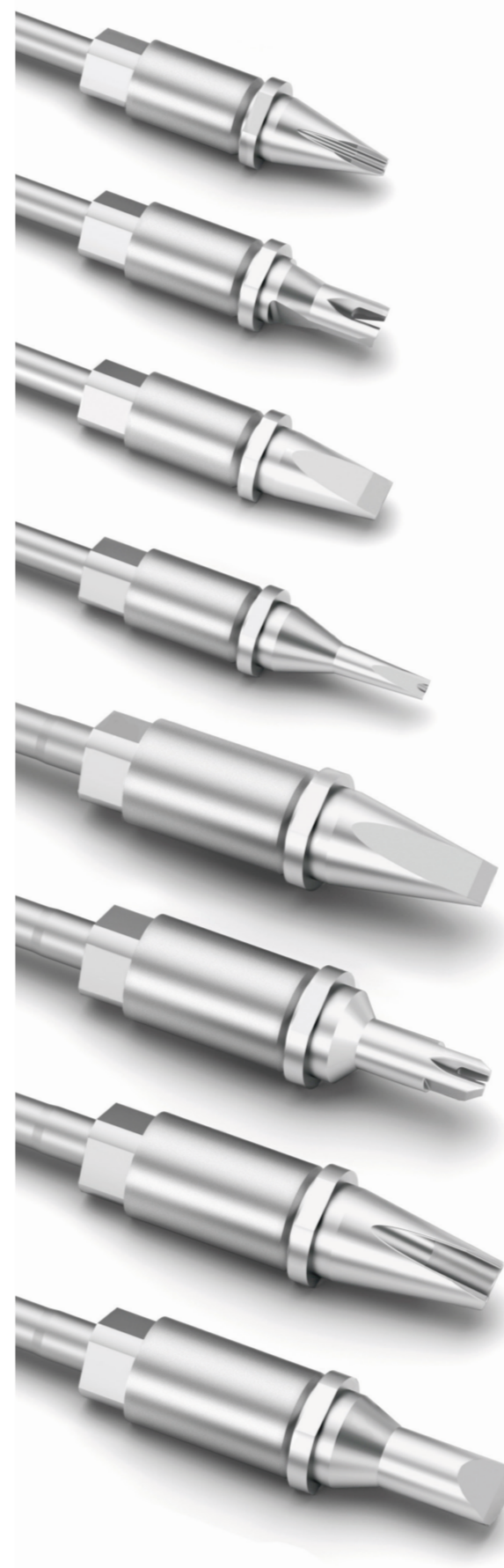
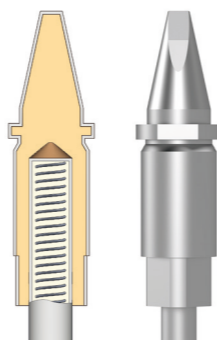
## Cartridges with extended tip life

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](mailto:customtips@jbctools.com).

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

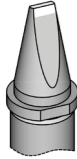
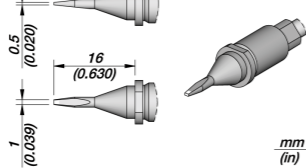
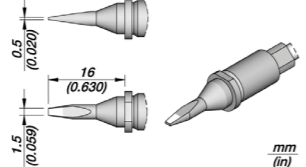
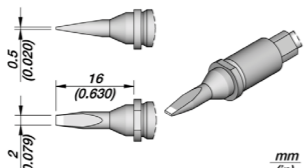
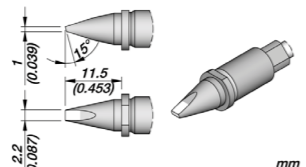
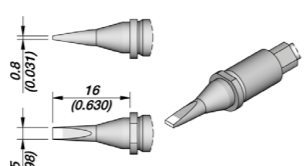
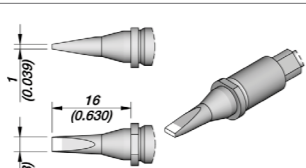
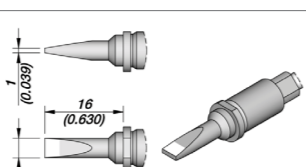
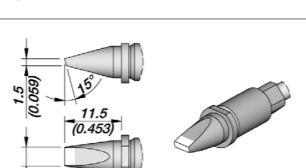
- **Excellent Heat Transfer**  
The compact element reduces thermal barriers.
- **Instantaneous Heating**  
A fully-integrated thermal sensor in the heater ensures quick temperature recovery.
- **Great Durability**  
The intelligent algorithm control program extends tip life.



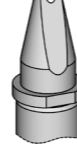
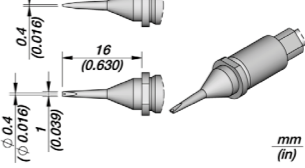
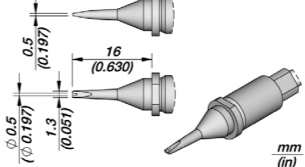
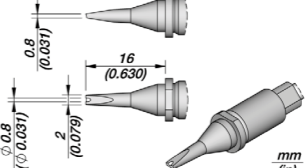
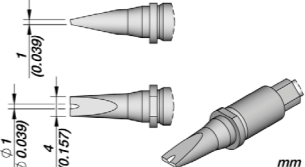

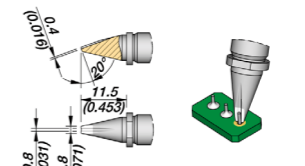
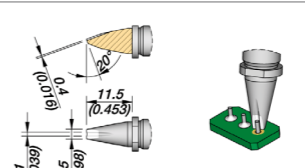
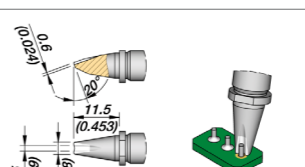
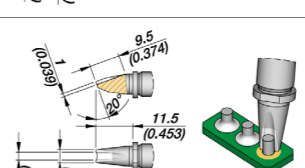
Our Cartridge Range is steadily growing as we are determined to respond to our clients' specific needs, cooperating closely with them to create **the right solution.**

## R245 Cartridge Range

for TRA245 and TR245 Automated Processes

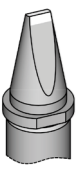
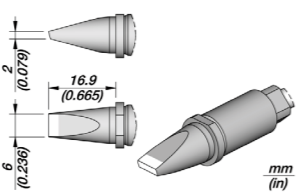
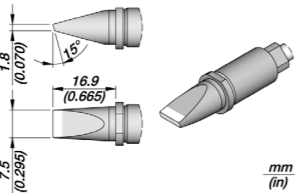
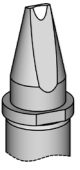
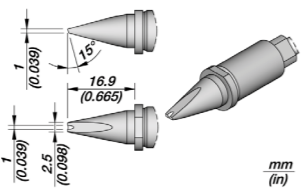
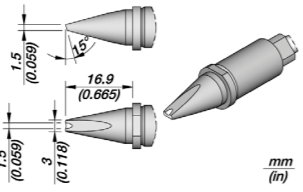
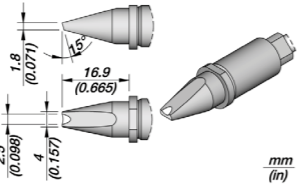
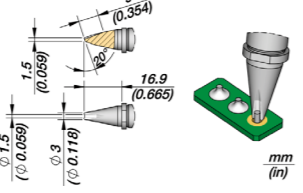
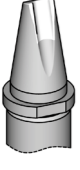
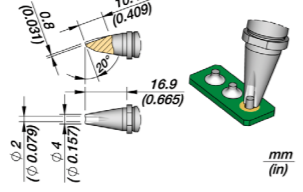
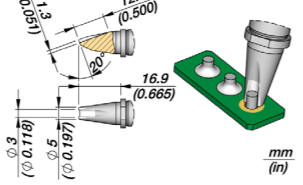
|   | Ref.           | Description   | Image and dimensions  | Suggested components | Compatible with   |
|---|----------------|---|---|----------------------|---|
|  | <b>R245016</b> | Cartridge Chisel<br>1 x 0.5 mm<br>0.039 x 0.020 in    |    | General use          | Soldering Unit:<br>HA245<br>Cartridge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

## R245 Cartridge Range for TRA245 and TR245 Automated Processes


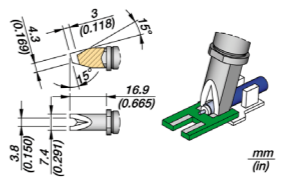
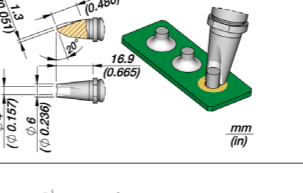
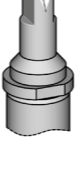
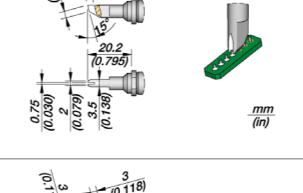
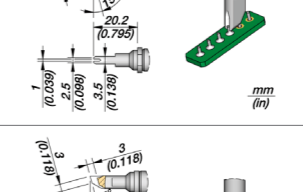
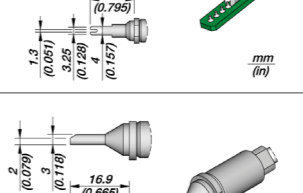
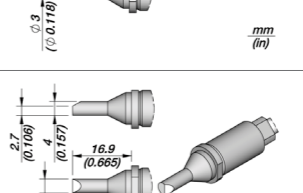

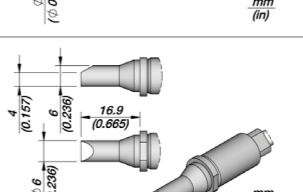
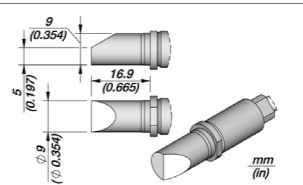

|   | Ref.           | Description  | Image and dimensions  | Suggested components            | Compatible with   |
|---|----------------|--|---|---------------------------------|---|
|    | <b>R245022</b> | Cartridge Grooved Chisel<br>1 x 0.4 mm<br>0.039 x 0.016 in   |    | General use             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



R470 Cartridge Range for TRA470 and TR470 Automated Processes

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

R470 Cartridge Range for TRA470 and TR470 Automated Processes

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



**ESD** safe



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