



JBC
The Soldering Co.



Station Guide

Believe in innovation, enjoy the power

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.



All JBC products comply with CE standards and ESD recommendations.

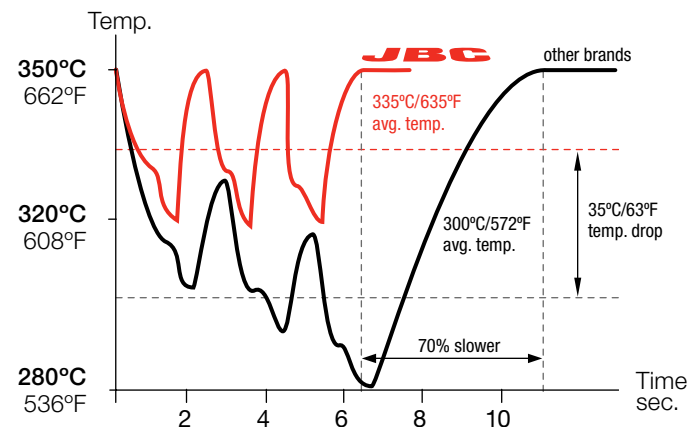


JBC Technology

Most Efficient Soldering System

JBC Stations work 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



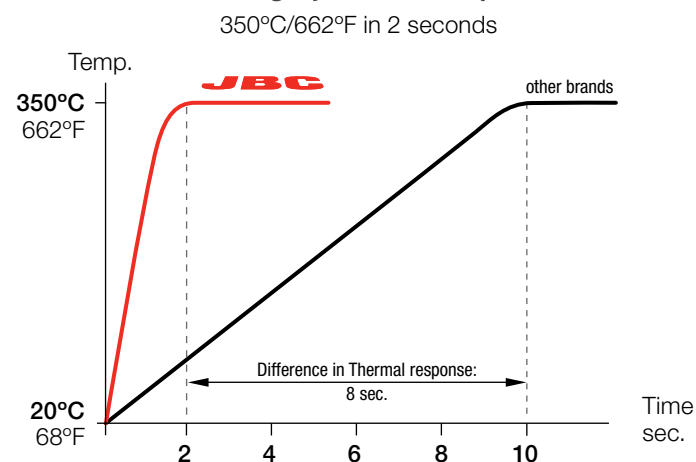
Tips with JBC Technology only drop 30°C (54°F) where others drop as much as 70°C (126°F).

Enhanced Temperature Efficiency → Increased Productivity + Better Quality

Productivity

Short tip-to-sensor distance ensures extremely quick temperature recovery and an **accurate control**.

Heating System Principles



This graph compares JBC C210 Cartridge Range to the equivalent cartridges of the best competitor.

Intelligent Heat Management

Thanks to automatic detection of the tool in the stand, JBC Soldering & Rework Stations allow the tools to enter **Sleep & Hibernation Modes** when not being used. As a result, tip life lasts up to 5 times longer.

Sleep Mode

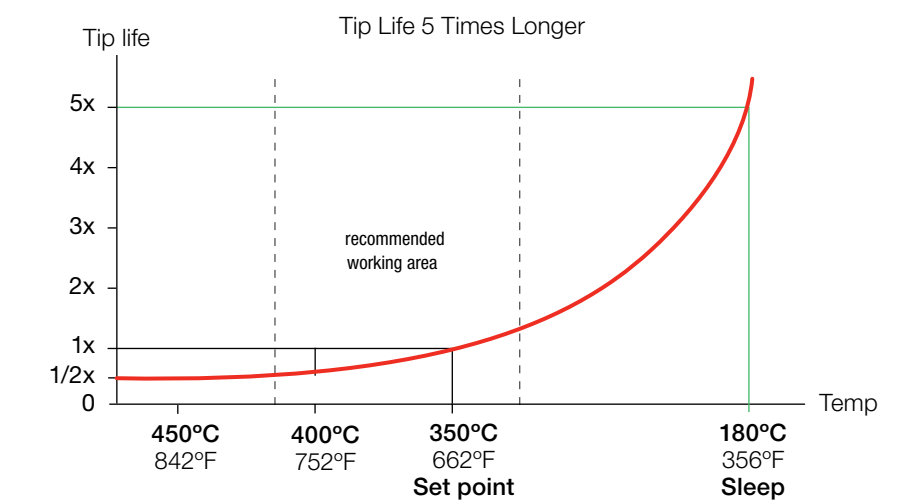
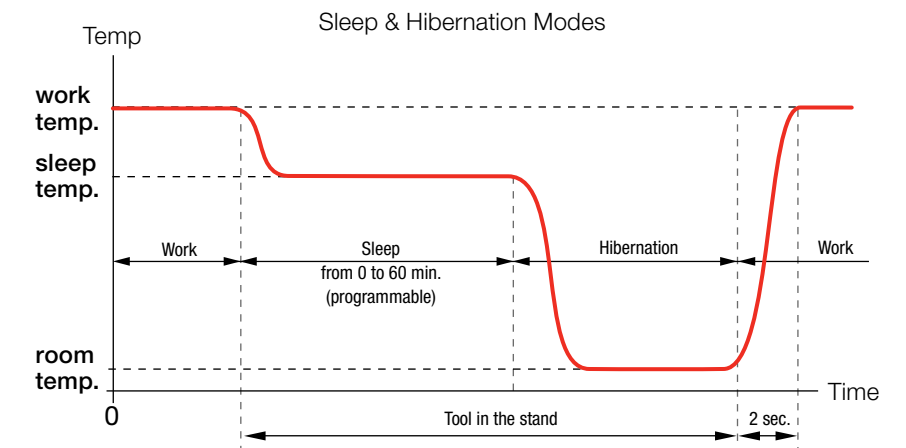
Sleep Mode **automatically lowers tip temperature** below the solder melting point when the tool rests in the stand. **It prevents the dissolution of the iron tip coating into molten solder.**

Hibernation Mode

After a configurable period of tool inactivity in the stand, the tool enters Hibernation Mode. **It cuts off the power supply**, making the tip reach room temperature, thus **preventing oxidation and saving energy**.

Longer Tip life

Tip life increases exponentially by **using lower temperatures** as shown. Using Sleep Mode, the temperature is further reduced, which **multiplies tip life by 5**.



Cartridges with long life & extended tip life

The essential part of the soldering iron is the tip. Therefore, JBC has **over 500 cartridge models of different shapes and sizes** to choose from, depending on each application. 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.

B-IRON Stations

All the power and control in a revolutionary Battery-Powered System

Control and configure the tool parameters **from any device**

Elevate your possibilities with our new solutions

Improve & optimize your soldering quality

By using B-IRON App, you can configure and control the system. Alternatively, **use your own device**. You can download the APP from:



Cartridge Exchanger & Holder

The Quick Cartridge Exchanger System avoids damage of the tips and allows you to have the **cartridges ready for exchange**.

Battery-Powered System

Charging your B-IRON is effortless thanks to its **charger integrated in the stand**, which fully charges the tool while resting in Hibernation Mode, preventing tip oxidation.

Safety Cap

The tool has a **power safe mode that is activated by the use of the cap**. If B-IRON remains idle for more than an hour, it shuts off automatically and can only be turned on again by placing it on its charging tool holder.

Tools are designed to perfectly lie in the operator's hand, making the soldering process even **more comfortable**.

New ways to explore and expand your possibilities

Revolutionize your soldering experience with an ergonomic iron designed to provide unique **freedom in usage and versatile functionality** for an optimized performance.



Battery-Powered Stations



B-IRON NANO
Battery-Powered Nano Soldering Station
High-Precision Soldering in hard-to-reach areas.



B-IRON TWEEZERS
Battery-Powered Rework Station
Highest precision when reworking SMDs.



B-IRON 100
Light Battery-Powered Soldering Station
Designed for R&D and individual jobs.



B-IRON 500
Battery-Powered Soldering Station
For electronic production and intensive jobs.



B-IRON DUAL NANO
Battery-Powered Nano Soldering Station
Unparalleled precision on two workbenches simultaneously.



B-IRON REWORK
Battery-Powered Rework Station
Rework SMDs without stopping.



B-IRON DUAL 500
Dual Battery-Powered Soldering Station
Allows continuous work in mass production.

Compact Stations

A complete Soldering System

Everything you need in a minimum footprint

Each unit meant for a specific purpose



Work position

JBC Stations are designed to suit the user's work position. **Tool Holder** and **Cable Collector** are easily adjustable.

Intelligent Heat Management

The stations incorporate **Sleep & Hibernation Modes**, which lower tip temperature when the tool is placed in the tool holder. As a result, **JBC tips last up to 5 times longer than tips of other brands.**

Communication Station-PC

The incorporation of a USB Connector on all stations and control units allows you to **manage your job remotely from a PC.** The most innovative technology to take your work beyond the station.

Tip Cleaning System

Compact Stations feature a tip cleaner with **antisplash membrane** to prevent splashing of solder particles and maintain the work area clean. The most complete **Tip Cleaning System** allows you to choose from three safe methods according to your needs: **metallic wool, sponge or metal brush.**

Quick Cartridge Exchanger and Holder Save time and increase productivity by using **Quick Cartridge Exchanger**, which facilitates fast and safe use of different cartridge geometries. **Cartridge Holder** allows storing up to four cartridges.

Intuitive menu and interface Fast and easy station configuration. **User-Friendly Menu** allows you to personalize over **20 parameters** to help manage the soldering process. Set temperature limits, check usage counters, lock the station with a PIN or program Sleep & Hibernation Modes.

Soldering

CDN

High-Precision Soldering Station Designed for **highest-precision jobs** in any micro-soldering application, offering **maximum control working under the microscope.**



NT115

CDS/CDB

Precision/Soldering Station CDS is ideal when working on **populated PCBs** or under a magnifying glass. CDB is suitable for **general electronics applications.**



T210

T245

CA

Manual-Feed Soldering Station Designed for those applications **requiring a free hand.** Ideal for soldering cables, connectors, etc.



AP250

Rework

CP

Precision Rework Station Ideal for soldering and **reworking SMT chip components**, small/medium SOP and dual in-line components.



AM120

CS

Desoldering Station Ideal for **desoldering small THT components and SMD pad cleaning.**



DS360

Soldering Assistant

CDEB

Soldering-Assistant Station Improve your soldering quality while improving your skills.



T245

Modular System

Build your solution

Stackable modules
save work space

Fully-compatible tools
with all control units

Easy-to-use menu helps
work more efficiently



Station Customization
Personalize the station parameters according to your application/needs.



Partial Counters
Register total and partial time for each port, such as work and Sleep & Hibernation Modes in hours.



Peripherals
Connect station ports to pedals and modules, such as desoldering pump, nitrogen flow regulator, etc.



Tool Presets
Set parameters for each tool to automatically apply them.



Graphics
In real time, visualize tip temperature and power delivered to the solder joint during the soldering process.



Communication Station-PC
Manage your stations remotely via PC, export graphics and update the software.



Robot
Automate the soldering process and manage the station via robot.



TFT screen

See % power for each port

USB-A
Software updating & exporting graphics

Tool in use

Consult the comprehensive **help** for each parameter

Display different **ports** in use

Modular System Map



Control Units



DI
1-Tool Control Unit
DI Control Unit is designed for production and rework applications with low to medium thermal requirements.



DDE
2-Tool Control Unit
DDE Control Unit has 2 ports with an output peak power of 150 W per port, successfully carrying out the most demanding jobs.



DME
4-Tool Control Unit
DME Control Unit operates with 4 JBC Tools simultaneously. DME provides you with extra applications: USB microscope, file storage, unit converter, etc.

Multi-tool Stations

All-purpose solutions based on JBC Modular System

2-Tool DDE

DDPE

2-Tool Precision Rework Station

This station provides a quick and secure method for **reworking chip components and small outline ICs** in SMD applications. It has a peak power of 150 W per tool.

More than 40 long-life cartridges suitable for precision electrical production with the highest thermal efficiency.



DDSE

2-Tool Rework Station

This station presents an answer for **both SMDs and high-power applications. Perfect for desoldering jobs of through-hole components and removing excess solder after SMD rework.** It has a peak power of 150 W per tool.

MSE Electric Desoldering Module creates a vacuum peak at the startup in order to collect the solder before it cools down.

More than 150 cartridges & tips suitable for general-purpose electrical production with the highest thermal efficiency.



4-Tool DME

DMSE

2-Tool Rework Station

This station offers a solution for **both SMDs and high-power applications. Perfect for desoldering jobs of through-hole components and removing excess solder after SMD rework.**

It has a peak power of 150 W per tool.

Its control unit provides you with extra applications: USB microscope, file storage, unit converter, etc.



DMPSE

4-Tool Rework Station

DMPSE provides a solution for **reworking jobs with medium to high-power needs and desoldering through-hole components and removing excess solder after SMD rework.** It consists of two handles, a desoldering iron and precision tweezers to assist you in your work. It has a peak power of 150 W per tool.

MSE Electric Desoldering Module creates a vacuum peak at the startup in order to collect the solder before it cools down. More than 190 cartridges & tips suitable for general-purpose electrical production with the highest thermal efficiency.



2-Tool DDE + Hot Air

RMSE

Complete Rework System

RMSE Complete Rework System is not only **the fastest but also the safest option for soldering and rework**, including the use of hot air. It is designed with stackable modules and comes with all essential accessories to streamline your tasks. Additionally, it features JTSE, a high-powered Hot Air Station capable of reworking various types of SMDs.



Nano Stations

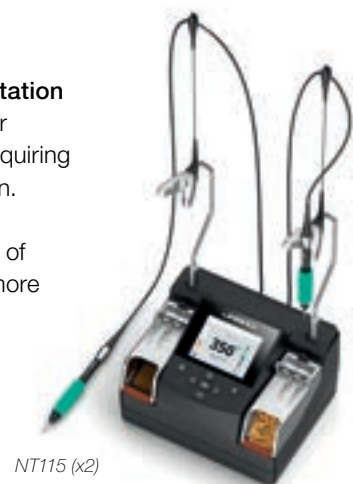
Designed for offering maximum control working under the magnifying glass

The best solution for soldering and desoldering components such as chips **01005, 0201, 0402**, etc.

Nano Stations work with **JBC Most Efficient Soldering System**, which improves the soldering quality

NANE
2-Tool Soldering Station
The best solution for **soldering SMDs** requiring the highest precision.

It has a peak power of 14 W per tool and more than 30 different cartridge shapes.



NASE
2-Tool Rework Station
The best solution for **rework SMDs** requiring the highest precision.

It has a peak power of 14 W per tool and more than 30 different cartridge shapes.



High-Precision Hot Air Station

Experience the versatility of JNA thanks to its capacity to rework a wide range of components

Rework SMDs on areas with minimal separation **without affecting nearby components**

Rework a wide range of components using the new bent hot air cartridges

JNA
High-Precision Hot Air Station
The perfect combination of the **NH Handle** and **Hot Air Cartridges** allows you to direct the heat onto the selected component. Thanks to its design and ergonomics, it enables you to work comfortably under a magnifying glass.



Hot Air Stations

The highest-quality contactless desoldering

Our range of tools allows you to **repair all types of SMDs** quickly and safely

JBC Hot Air Stations have the capability of **controlling precise temperature and airflow**

TESE
Precision Hot Air Station
Precision hot air station capable of **reworking small and medium SMDs**. It has a peak power of 300 W and with 2 to 17 SLPM air flow.

An external thermocouple connection for high-precise close-loop control of the component/PCB during the rework process.



JTSE
Power Hot Air Station
A high-powered hot air station capable of **reworking all types of SMDs**. It has a peak power of 700 W and with 5 to 50 SLPM air flow.

An external thermocouple connection for high-precise close-loop control of the component/PCB during the rework process.



SRS
SMD Rework System
SRS SMD Rework System **provides full control over SMD rework processes**.

RWS Rework Arm supports JTT Heater Hose Set, allowing **handsfree operation**.

PHSEK Preheater Set includes PHSE Preheater and PHSS PCB Support.



Automatic-Feed Stations

Consistently dispense programmed amounts, ensuring uniform soldering joints

Makes soldering components easy, giving the operator **one free hand for more stability** in the soldering process

Work without interruptions makes the process more efficient

ALE
Automatic-Feed Soldering Station
The ideal solution for the soldering process requiring high productivity.

It has a peak power of 150 W.
It features solder wire perforation, allowing better flux flow and outgassing.



ALE250

SF
Automatic Solder-Wire Feeder Station
Allows feeding solder wire automatically from any position.

It features solder wire perforation, allowing better flux flow and outgassing.



SF280

Heavy Duty Stations

Industrial equipment ready to work intensively

250 Watts peak power for **high-thermal demands** and prolonged soldering applications

Used in production of solar panels, multi-layered circuits and **components of large dissipation surfaces**

HDE
Heavy Duty Soldering Station
The most powerful soldering unit of the JBC Range.
It has a peak power of 250 W.



T470

HDEK
Heavy Duty Rework Station
Designed to reduce the soldering time in applications that require a large amount of heat transfer.
It has a peak power of 250 W.



HT470

Preheaters

Forget about thermal shock

Matchless reliability in **temperature accuracy and control** of the PCBA

3 Work Modes safer and easier with up to 8 thermocouples

Independent work zones to be turned on/off

PHXLEK
Preheater Set for PCBs up to 51 x 61 cm / 20 x 24"
This is a complete system for preheating big-sized PCBAs such as communications boards, airplanes, etc. and ideal for repetitive soldering jobs.



PHBEK
Preheater Set for PCBs up to 36 x 28 cm / 14 x 11"
The best solution to rework medium / large PCBAs, such as the ones commonly used in laptops or PCB panels.



PHSEK
Preheater Set for PCBs up to 13 x 13 cm / 5 x 5"
Complete solution to rework small / medium PCBAs, such as the ones commonly used in electronics industries.



PHNEK
Preheater Set for PCBs up to 11 x 7 cm / 4 x 3"
The best solution to rework small PCBAs, such as the ones commonly used in smartphones.



Wire Stripper Stations

High-temperature wire stripping

Wire insulations made of **thermostable materials such as Teflon*, Kapton*, silicone rubber, etc.** from 40 to 14 AWG (0.08 to 1.63 mm / 0.003 to 0.064 in) with temperatures of up to 800°C / 1470°F

WSS

High-Temperature Precision Wire Stripper Station

Its improved tweezer design makes it a small, ergonomic, handy and very safe tool, preventing burns even when reaching very high temperatures.



Tip Cleaning Systems

Invest your time in soldering, not cleaning

Clean the tip in less than a second. With automatic cleaners you **save time and optimize production**

A clean tip is always easier to tin, resulting in higher **quality solder joints**



CLMUP
Automatic Tip Cleaner with Fiber Brushes (non-metal)
Perform a thorough and **gentle tip cleaning**. Regular usage recommended to improve tip life.



CLMS
Automatic Junior Tip Cleaner
Improve thermal transfer of the tip in only 1 second. It fits in any work area thanks to its **reduced size and is very easy to maintain**.



CL
Manual Tip Cleaner
A **complete cleaning system** with splashguard and antisplash membrane to keep the work area clean and free of solder particles.

Fume Extractors

FAE1 is the most effective solution to avoid exposure to solder fumes

FAE1

Fume Extractor with FAE1100 for 1 Workbench

FAE1 only operates when soldering and features a unique vacuum system integrated into the stand.

Each arm offers 80 m³/h aspiration, optimizing fume extraction for two workbenches. It surpasses industry standards, ensuring higher air quality and compliance.



Accessories

Work faster, easier and safer with our variety of complements for soldering & desoldering



DPM

Manual Paste Dispenser

Precise dosage for solder paste, adhesive, solder flux, etc. – ideal for SMT rework.



PSS

Multiaxis Rotative PCB Support

Ensures fast and precise PCB handling in any position. Turn your PCB upside-down (180°) in one movement. Designed to simplify your work, with or without preheater.



ESD PRODUCT LINE

ESD Table Mats

Protect the operator and equipment from static electricity discharges by draining the static electricity from objects placed on its surface.



TWEEZERS

for precision in electronics

Thanks to the tip design, these are well suited, especially for SMT.



CUTTERS & PLIERS

for electronics

Suitable for a wide range of electronics applications. Full line designed according to ESD safety regulations.

Cartridge Map

Over 500 Cartridges & Customized models

See the full range on our website



C115

Stainless steel tip
Spoon
High-Thermal Performance

C115126 C115101 C115103 C115106 C115107 C115124 C115118 C115105 C115110 C115116 C115117 C115108 C115125 C115113 C115114

C115115 C115111 C115112 C115120 C115109 C115127 C115128 C115211 C115212

C115213 A = 1 x 0.3 (0.039 x 0.012)
C115214 A = 1.8 x 0.5 (0.071 x 0.020)
C115221 A = 1.3 x 0.3 (0.051 x 0.012)
C115222 A = 1.6 x 0.3 (0.063 x 0.012)
C115223 A = 2.4 x 0.6 (0.094 x 0.024)

C245

C245731 C245773 C245742 C245774 C245906 C245406 C245768 C245944 C245907 C245407 C245759 C245770 C245741 C245729 C245061 C245911

C245775 C245755 C245756 C245908 C245708 C245967 C245069 C245966 C245030 C245032 C245036 C245930 C245001 C245937 C245957 C245903 C245403 C245943 C245933 C245107

C245775 C245755 C245756 C245908 C245708 C245967 C245069 C245966 C245030 C245032 C245036 C245930 C245001 C245937 C245957 C245903 C245403 C245943 C245933 C245107

Hoof tip with reduced tinned surface, ideal for touchup

C245064 A = 0.13 (0.051)
C245102 A = 0.2 (0.079)
C245797 A = 0.3 (0.149)

C245747 C245710 C245905 C245405 C245945 C245795 C245784 C245793 C245912 C245056 C245951 C245766 C245301

C245748 C245749 C245962 C245963 C245946

Knife
Dual In Line
QFP & PLCC
Blade
Cartridges with chrome finish, designed for use in plastics

C245732 C245761 C245034 C245029 C245126 C245786 C245929 C245935 C245904 C245259 C245260 C245627 C245628 C245067 C245965 C245931 C245938 C245918 C245919

C245303* C245222* C245306* C245305* C245220* C245215* C245226* C245223* C245224* C245351* C245228* C245315* C245352* C245227* C245344* C245914 C245752 C245913 C245949 C245776 C245792 C245138 C245123 C245121 C245109

Cartridge with chrome finish, designed for use in plastics
PTFE coated tip
Nickel tip for (High Melting Point) soldering
Through-hole and cable soldering
Through-hole drag soldering
Ideal to reach joints
Solder Pot

C245053 C245052 C245054 C245119 C245772 C245790 C245785 C245763 C245760 C245754 C245751 C245651 C245667 C245764 C24550P01

C245E

C245159E C245158E C245160E C245155E C245735E C245161E C245070E C245968E C245156E C245354E C245157E

C245E Cartridges have a reinforced protection on the tip that provides a longer life with a small reduction of thermal efficiency.

C120 Chip Components
C210

C120002 C120902 C120006 C120004 C120012 C120011 C120001 C120003 C120005 C120002 C120010 C120014 C120004 C120006 C120027 C120031 C120028 C120029 C120030 C120019 C120023 C120021

C250

C250420 C250401 C250402 C250403 C250409 C250410 C250404 C250405 C250406 C250412 C250418 C250407 C250408 C250411 C250413 C250414 C250415

C420 Chip Components
Blade type
QFP & PLCC
Dual in-line

C420271 C420272 C420283 C420288 C420280 C420279 C420273 C420274 C420275 C420276 C420277 C420278 C420285 C420286 C420287

C470

C470013 C470036 C470014 C470040 C470035 C470017 C470009 C470002 C470015 C470004 C470016 C470058 C470039 C470006 C470007 C470019 C470003 C470056

Through-hole and cable soldering
Solder Pot

C470048 C470049 C470033 C470030 C470037 C470041 C470031 C470047 C470010 C470042 C470044 C470046 C470050 C470057 C470055 C470056 C470057 C470058 C470059 C470060 C470061 C470062 C470063 C470064 C470065 C470066 C470067 C470068 C470069 C470070 C470071 C470072 C470073 C470074 C470075 C470076 C470077 C470078 C470079 C470080 C470081 C470082 C470083 C470084 C470085 C470086 C470087 C470088 C470089 C470090 C470091 C470092 C470093 C470094 C470095 C470096 C470097 C470098 C470099 C470100

C360

C360001 C360002 C360003 C360004 C360007 C360006 C360011 C360012 C360013 C360014 C360015 C360016 C360017 C360018 C360019 C360020 C360021 C360022 C360023 C360024 C360025 C360026 C360027 C360028 C360029 C360030 C360031 C360032 C360033 C360034 C360035 C360036 C360037 C360038 C360039 C360040 C360041 C360042 C360043 C360044 C360045 C360046 C360047 C360048 C360049 C360050 C360051 C360052 C360053 C360054 C360055 C360056 C360057 C360058 C360059 C360060 C360061 C360062 C360063 C360064 C360065 C360066 C360067 C360068 C360069 C360070 C360071 C360072 C360073 C360074 C360075 C360076 C360077 C360078 C360079 C360080 C360081 C360082 C360083 C360084 C360085 C360086 C360087 C360088 C360089 C360090 C360091 C360092 C360093 C360094 C360095 C360096 C360097 C360098 C360099 C360100

D530
C560

D530017 C560017 D530014 C560014 D530009 C560009 D530006 C560006 D530007 C560007 D530008 C560008 D530009 C560009 D530010 C560010 D530011 C560011 D530012 C560012 D530013 C560013 D530014 C560014 D530015 C560015 D530016 C560016 D530017 C560017 D530018 C560018 D530019 C560019 D530020 C560020 D530021 C560021 D530022 C560022 D530023 C560023 D530024 C560024 D530025 C560025 D530026 C560026 D530027 C560027 D530028 C560028 D530029 C560029 D530030 C560030 D530031 C560031 D530032 C560032 D530033 C560033 D530034 C560034 D530035 C560035 D530036 C560036 D530037 C560037 D530038 C560038 D530039 C560039 D530040 C560040 D530041 C560041 D530042 C560042 D530043 C560043 D530044 C560044 D530045 C560045 D530046 C560046 D530047 C560047 D530048 C560048 D530049 C560049 D530050 C560050 D530051 C560051 D530052 C560052 D530053 C560053 D530054 C560054 D530055 C560055 D530056 C560056 D530057 C560057 D530058 C560058 D530059 C560059 D530060 C560060

Pad Cleaners Tips

D530001 C560001 D530002 C560002 D530003 C560003 D530004 C560004 D530005 C560005 D530006 C560006 D530007 C560007 D530008 C560008 D530009 C560009 D530010 C560010 D530011 C560011 D530012 C560012 D530013 C560013 D530014 C560014 D530015 C560015 D530016 C560016 D530017 C560017 D530018 C560018 D530019 C560019 D530020 C560020 D530021 C560021 D530022 C560022 D530023 C560023 D530024 C560024 D530025 C560025 D530026 C560026 D530027 C560027 D530028 C560028 D530029 C560029 D530030 C560030 D530031 C560031 D530032 C560032 D530033 C560033 D530034 C560034 D530035 C560035 D530036 C560036 D530037 C560037 D530038 C560038 D530039 C560039 D530040 C560040 D530041 C560041 D530042 C560042 D530043 C560043 D530044 C560044 D530045 C560045 D530046 C560046 D530047 C560047 D530048 C560048 D530049 C560049 D530050 C560050 D530051 C560051 D530052 C560052 D530053 C560053 D530054 C560054 D530055 C560055 D530056 C560056 D530057 C560057 D530058 C560058 D530059 C560059 D530060 C560060

CO00000 High Thermal Efficiency Cartridges: These are characterised by their optimised tip geometries which achieve improved thermal efficiencies of up to 40%.
CO00000* These cartridges are 20mm longer than normal cartridges for easier access to difficult-to-reach joints.

