

new

# Excellence

range



**JBC**

[www.jbctools.com](http://www.jbctools.com)

## 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 80 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.



**ESD safe**

All JBC products comply with CE standards and ESD recommendations.



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

# The new generation of JBC

The Excellence range of JBC has become the trendiest choice for the electronics professional

## More functions, better quality in soldering

The incorporation of the new functions and the possibility to modify more parameters means you can get the best quality results in the soldering joints with graphics in real time, partial counters, tool port monitoring...

## From customizing to total control

Our soldering and rework equipment has a great capacity to suit your needs. You can manage and monitor groups of stations remotely thanks to their multiple connections: USB, LAN, Robot and peripheral modules. It can also store settings which can be easily exported.

## The best support for your work

Use our innovative applications to complement your work such as the microscope, file storage, unit converter, calculator, video and even an comprehensive station help to assist you at anytime.

Two product lines:

*Excellence*  
range

*Excellence* **Touch**  
range



## Features

Excellence  
range

Excellence Touch  
range

TFT Screen with capacitive keyboard



Ref. DDE, NASE, NANE, HDE

TFT Touch Screen



Ref. DME



Station name	✓	✓
Adjustable sound		✓
Date and time	✓	✓
Screen Calibration		✓
Screensaver		✓
Screen lock		✓
PIN activation	✓	✓



Tool preset	✓	
Cartridge adjustment		✓



Partial counters	✓	✓
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Peripherals	✓*	✓
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Communications:		
Robot	✓	✓
LAN Ethernet		✓
USB-B	✓	✓
USB-A	✓	✓



Graphics	✓	✓
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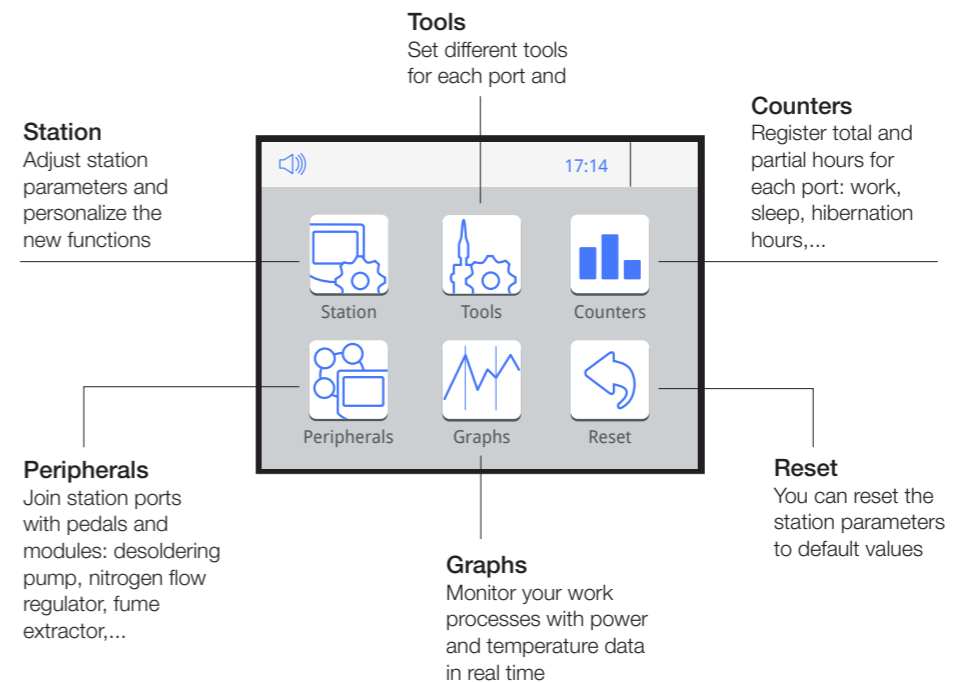
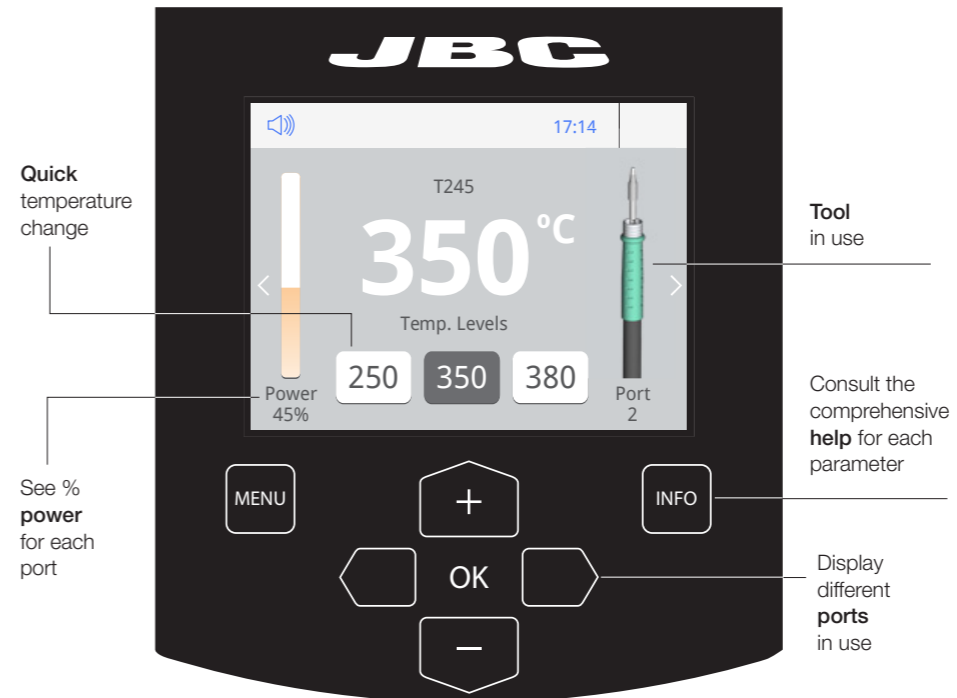
Utilities		✓
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Reset by menu	✓	✓
Simultaneous control of ports		✓
Complete Help	✓	✓

\* NASE / NANE stations can only be joined with the pedal

# Excellence range

See for yourself all the benefits



**JBC**  
www.jbctools.com

## Adjustable TFT screen



2.8" color display with capacitive keyboard facilitates user interaction

## Intuitive Menu

Easy browsing for working with total comfort

## Quick access

The new interface provides quick access to all parameters



## Station customizable

Set the station parameters and personalize the new functions

**Name**  
Assign a name to the station for easy identification

**Status Bar**  
The icons indicate the active functions

**Robot**  
Enable this option when you connect a robot system to the station via RJ12 connector

**Info**  
Get the technical information of the station

**PIN**  
Easily enable or disable the PIN option

**Partial reset**  
Reset to default values of the station (option also included in Tools and Counters menus)

Station	DDE
Name	
Temp. units	°C
Maximum temp.	400°C
Minimum temp.	200°C
Sound	On
Date&Time	
Robot	Off
PIN	Off
Station Reset	
Info	
Back	



## Peripherals

Multiple possibilities for greater production

Join station ports with 1 module and 1 pedal  
Select the most appropriate peripherals according to your soldering or desoldering needs



**Electric Desoldering Module**  
Ref. **MSE**



**Pneumatic Desoldering Module**  
Ref. **MVE**



**Nitrogen Flow Regulator**  
Ref. **MNE**



**Fume Extractor Switch**  
Ref. **FSE**



**Pedal**  
Ref. **P-005**



## Tool Preset

Set the tool before connecting

The stored settings are activated only when the station detects a tool is connected

**Tools** Port 2-T245

Shows the detected tool and the settings are applied

Tool	T245
Temp. adjust	0°C
Temp level set	On
Sleep delay	0min
Sleep temp	180°C
Hibernation delay	30min
Tool reset	
Back	



## Partial Counters

Display the hours worked in each cycle

**Counters** Port 2-T245

Display hours worked in each cycle

Display total hours worked. They can not be reset

Monitor the counters for each port without having to return to the Home screen

Part	Tot
Plug hrs	11
Working hrs	0
Sleep hrs	3
Hiber hrs	7
No tools hrs	1
Sleep cyc	43
Desold cyc	0
Partial reset	2
Back	

How many sleep or desoldering cycles were performed partially and totally?

Reset the partial counters of the station

Now with the Excellence stations you can work with up to 4 desoldering irons

Set the working mode of the pedal to activate a module or the Sleep feature of the tool



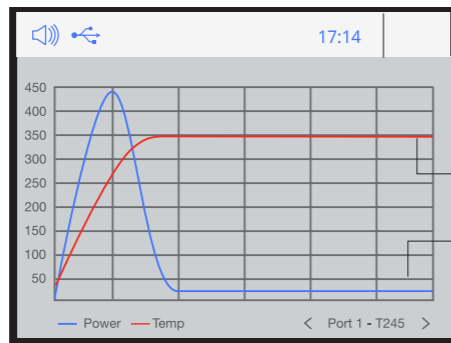
## Graphics

Monitor your work with power and temperature data in real time

Analyze graphics from your PC

## Analysis of the soldering process

It helps you select the best tip for your work and see the quality of each soldering joint



Temperature

Power (%)

### Export graphics

Insert a USB flash drive into the USB-A connector **before starting the graphics** and data will be copied in CSV format.



Download the Robot Communication Protocol from [www.jbctools.com/jbcsoftware-menu-115.html](http://www.jbctools.com/jbcsoftware-menu-115.html)



## Robots

Automate the soldering process and control the settings from your Robot

For very repetitive jobs requiring precision

Connection RJ12

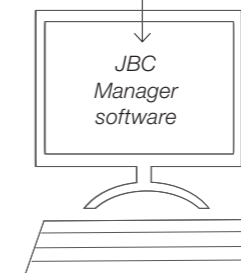
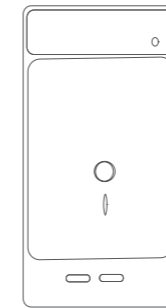


## Remote Work Management

Configure and control all your company's JBC stations via PC



Download the JBC Manager software and the user manual from [www.jbctools.com/manager.html](http://www.jbctools.com/manager.html)



Connect the stations and the PC will detect them automatically

USB Hub

LAN Hub

any JBC station



DDE



DME



NASE/NANE

# JBC

[www.jbctools.com](http://www.jbctools.com)



## Soldering Net

Centralize the control of your work via USB



DME



DME



DME

Organize groups of stations and set all parameters at the same time

# New stations

Provide you with all the Excellence range features  
Compatible with all JBC Tools & Cartridges

## Work with 2 tools simultaneously

The station allows a simultaneous connection of 2 tools for soldering or desoldering.

For a basic working system you need 1 tool, 1 stand and 1 cartridge.

Each tool can be joined with **1 pedal** and **1 module** such as the MSE / MVE Desoldering Modules, the KNE Nitrogen Flow Regulator or the FSE Fume extractor.

The user can set **different tools** for each port, even without having to connect them.

## DDE · 2 Tools Control Unit

Ref. **DDE-1A** 120 V, **DDE-2A** 230 V, **DDE-9A** 100 V



**Software updating**  
Insert a USB flash drive with the station's latest version.  
Download it from [www.jbctools.com](http://www.jbctools.com)

## Specifications

Dimensions	173 x 282 x 141 mm	Output peak power	150W per tool
Weight	4,3 Kg (9,3 lb)	Temperature range	90 - 450 °C / 190 - 840 °F (±5%)
Idle temp. stability (still air)	±1.5 °C / ±3 °F	Tip to ground voltage	< 2 mV RMS
Ambient operating temp.	10 - 40 °C / 50 - 104 °F	Tip to ground resistance	< 2 ohms
Communication connectors	USB-A / USB-B / Peripherals	Robot connector	RJ12 (RS-232 Protocol)
Voltage	<b>DDE-1A</b> 120V 50/60Hz. Output: 23,5V <b>DDE-2A</b> 230V 50/60Hz. Output: 23,5V <b>DDE-9A</b> 100V 50/60Hz. Output: 23,5V	Fuse	Overload protection <b>DDE-1A</b> 120V 50/60Hz. Input fuse: 4A <b>DDE-2A</b> 230V 50/60Hz. Input fuse: 2A <b>DDE-9A</b> 100V 50/60Hz. Input fuse: 5A

## Compatible peripherals

Freely combine modules and pedals to get your complete and personalized set-up

## MSE-A · Electric Desoldering Module



## MVE-A · Pneumatic Desoldering Module



## MNE-A · Nitrogen Flow Regulator



## FSE-A · Fume Extractor Switch



## P-005 · Pedal



Peripherals adapted to work **only with Excellence stations**

# Excellence range

The ideal solution for intensive soldering jobs requiring prolonged and high thermal demands

## HDE · Heavy Duty station

Ref. **HDE-1A** 120 V, **HDE-2A** 230 V, **HDE-9A** 100 V

### Composition

- HDE Control Unit
- HD-SD Stand
- T470-A Handpiece
- CL9885 Tip Cleaning Stand



### Specifications

Dimensions	145 x 120 x 225 mm	Output peak power	250 W
Weight	5,9 Kg (13,1 lb)	Temperature range	90 - 500 °C / 190 - 932 °F
Idle temp. stability (still air)	±1.5 °C / ±3 °F	Tip to ground voltage	< 2 mV RMS
Ambient operating temp.	10 - 40 °C / 50 - 104 °F	Tip to ground resistance	< 2 ohms
Communication connectors	USB-A / USB-B / Peripherals	Robot connector	RJ12 (RS-232 Protocol)
Voltage	<b>HDE-1A</b> 120V 50/60Hz. Output: 47V <b>HDE-2A</b> 230V 50/60Hz. Output: 47V <b>HDE-9A</b> 100V 50/60Hz. Output: 47V	Fuse	Overload protection <b>HDE-1A</b> 120V 50/60Hz. Input fuse: 4A <b>HDE-2A</b> 230V 50/60Hz. Input fuse: 2A <b>HDE-9A</b> 100V 50/60Hz. Input fuse: 4A

## NASE / NANE · Nano stations

Ref. **NASE-1A** 120 V, **NASE-2A** 230 V, **NASE-9A** 100 V

Ref. **NANE-1A** 120 V, **NANE-2A** 230 V, **NANE-9A** 100 V

The NANE stations are supplied with 2 Nano Handpieces



### Specifications

Dimensions	170 x 90 x 135 mm	Output peak power	14 W per tool
Weight	1.8 Kg (4.0 lb)	Temperature range	90 - 450 °C / 190 - 840 °F
Idle temp. stability (still air)	±3 °C / ±5.5 °F	Tip to ground resistance	< 2 ohms
Ambient operating temp.	10 - 40 °C / 50 - 104 °F	Robot connector	RJ12 (RS-232 Protocol)
Communication connectors	USB-A / USB-B	Fuse	Overload protection <b>NAE-1A</b> 120V 50/60Hz. Input fuse: 0,5A <b>NAE-2A</b> 230V 50/60Hz. Input fuse: 0,2A <b>NAE-9A</b> 100V 50/60Hz. Input fuse: 0,5A
Voltage	<b>NAE-1A</b> 120V 50/60Hz. Output: 8.5V <b>NAE-2A</b> 230V 50/60Hz. Output: 8.5V <b>NAE-9A</b> 100V 50/60Hz. Output: 8.5V		

# Excellence range

For very small-sized components requiring the highest precision such as chips 0402, 0201,...

### P105-A Pedal

Activate the hibernation mode with the pedal. This avoids thermal stress while placing the component on the PCB with the Nano Tweezers.



### Cleaning and extraction set (x2)

It consists of a splashguard and an easy extractor, which facilitates single-handed cartridge change.



# Excellence range

For soldering and desoldering all types of components, SMD, through-hole, pad cleaning,...

## DDSE / DDVE · Rework stations

Ref. **DDSE-1A** 120 V, **DDSE-2A** 230 V, **DDSE-9A** 100 V  
Ref. **DDVE-1A** 120 V, **DDVE-2A** 230 V, **DDVE-9A** 100 V

### Composition

- DDE Control Unit
- AD-SD & DR-SD Stands
- T245-A Handpiece
- DR560 Desoldering Iron
- CL9885 Tip Cleaning Stand
- MSE Electric Desoldering Module (only with DDSE stations)
- MVE Pneumatic Desoldering Module (only with DDVE stations)



### Specifications

Dimensions	See individual modules	Output peak power	150 W per tool
Weight	9,1 Kg (20 lb)	Temperature range	90 - 450 °C / 190 - 840 °F
Idle temp. stability (still air)	±1.5 °C / ±3 °F	Tip to ground voltage	< 2 mV RMS
Ambient operating temp.	10 - 40 °C / 50 - 104 °F	Tip to ground resistance	< 2 ohms
Communication connectors	USB-A / USB-B / Peripherals	Robot connector	RJ12 (RS-232 Protocol)
Voltage	<b>DDE-1A</b> 120V 50/60Hz. Output: 23,5V <b>DDE-2A</b> 230V 50/60Hz. Output: 23,5V <b>DDE-9A</b> 100V 50/60Hz. Output: 23,5V	Fuse	Overload protection <b>DDE-1A</b> Input fuse: 4A <b>DDE-2A</b> Input fuse: 2A <b>DDE-9A</b> Input fuse: 5A
Vacuum (MSE)	75% / 570 mmHg / 22.4 inHg	Flow rate	9 SLMP (MSE), 15 SLMP (MVE)
Vacuum at 6 bar (MVE)	90% / 680 mmHg / 26.8 inHg	Air pressure range supply MVE	4-6 bar

# Excellence range

For any kind of rework job even using Hot Air with all the necessary complements

## RMSE / RMVE · Complete Rework stations

Ref. **DDSE-1A** 120 V, **DDSE-2A** 230 V, **DDSE-9A** 100 V  
Ref. **DDVE-1A** 120 V, **DDVE-2A** 230 V, **DDVE-9A** 100 V

### Composition

- DDE & JT Control Unit
- AD-SD & DR-SD & JT-SB Stand
- T245-A Handpiece
- DR560 Desoldering Iron
- JT-TA Heater
- CL9885 Tip Cleaning Stand
- Extractor Desk
- MSE Electric Desoldering Module (only with RMSE stations)
- MVE Pneumatic Desoldering Module (only with RMVE stations)



### Specifications

Dimensions	See individual modules	Output peak power	150 W per tool (DDE) 1000 W (JT)
Weight	14,9 Kg (32.8 lb)	Tip to ground voltage	< 2 mV RMS
Idle temp. stability (still air)	±1.5 °C / ±3 °F (DDE) ±20 °C / ±36 °F (JT)	Temperature range	90 - 450 °C / 190 - 840 °F (DDE) T. amb - 450° C / T. amb - 850 °F (JT)
Ambient operating temp.	10 - 40 °C / 50 - 104 °F	Tip to ground resistance	< 2 ohms
Communication connectors	USB-A / USB-B / Peripherals	Robot connector	RJ12 (RS-232 Protocol)
Voltage	<b>DDE-1A</b> 120V 50/60Hz. Output: 23,5V <b>DDE-2A</b> 230V 50/60Hz. Output: 23,5V <b>DDE-9A</b> 100V 50/60Hz. Output: 23,5V	Fuse	Overload protection <b>DDE-1A</b> Input fuse: 4A, <b>JT-1B</b> 8A. <b>DDE-2A</b> Input fuse: 2A, <b>JT-2B</b> 4A. <b>DDE-9A</b> Input fuse: 5A, <b>JT-9B</b> 8A.
Vacuum (MSE)	75% / 570 mmHg / 22.4 inHg	Flow rate	9 SLMP (MSE), 15 SLMP (MVE)
Vacuum at 6 bar (MVE)	90% / 680 mmHg / 26.8 inHg	Air pressure range supply MVE	4-6 bar



## Adjustable TFT Touch screen



3.5" color display facilitates the user interaction and has an adjustable screen for easy reading

## Multi language

Adapt the station to the user with 8 languages to choose from



# Excellence Touch range

Discover additional features and applications that the "Touch" line offers

Consult the full help for each parameter

**Status Bar**  
The icons indicate the active functions

Cartridge in use: C245-003

Tool in use

Display different ports in use: Port 3

See the % power for each port: Power 45%

**Temperature**  
Change the temperature according to your needs

**Tools**  
Set different tools for each port and introduce the model of cartridge to get more precise temperatures

**Utilities**  
Monitor your work processes with graphics, use the microscope, videos, catalogs, files, ...

**Info**  
See station's technical information

**Languages**  
German, English, Spanish, French, Italian, Chinese, Portuguese and Japanese

The station provides more precise on temperature readings according to the features of each cartridge



Insert the cartridge model and the station will recognize its characteristics (size and shape) to provide more accurate temperatures

Manage and monitor parameters of your JBC stations from your PC by means of a HUB with different LAN connections.

You can use our JBC Manager software, available on [www.jbctools.com](http://www.jbctools.com)



LAN connector

Also features a USB-B connector for smaller distances

You can display the status of all connected tools simultaneously

4 ports display, even those with no tool connected



## Cartridge Adjustment

The higher the temperature accuracy, the greater the soldering quality



## LAN connection

Manage stations from a greater distance

## Simultaneous control of ports

All tool status displayed on one screen



## Utilities

Multiple additional applications complement and support your work

**Catalog**  
See the JBC catalog in your work bench

**Video**  
The TFT screen provides you with the option to see videos or tutorials when working

**Converter**  
This is a unit converter: volume, areas, mass, temperature, distance and power

**Graphics**  
Monitor your soldering process with power and temperature data in real time

**Microscope**  
Connect a Dino microscope via USB and see the soldering joints on the screen as you work

**Files**  
Manage files: copy, delete, edit, export, import,...



## Excellence Touch range

### Work with 4 tools simultaneously

The station allows a simultaneous connection of 4 tools for **soldering** or **desoldering**.

For a basic working system you need 1 tool, 1 stand and 1 cartridge. In addition, each tool can be joined with **1 pedal** and **1 module** such as the MSE / MVE Desoldering Modules, the KNE Nitrogen Flow Regulator or the FSE Fume Extractor.

## DME · 4 Tools Control Unit

Ref. **DME-1A** 120 V, **DME-2A** 230 V, **DME-9A** 100 V



### Specifications

Dimensions	173 x 282 x 141 mm	Output peak power	160W per tool
Weight	4,3 Kg (9,3 lb)	Temperature range	90 - 450 °C / 190 - 840 °F
Idle temp. stability (still air)	±1.5 °C / ±3 °F	Tip to ground voltage	< 2 mV RMS
Ambient operating temp.	10 - 40 °C / 50 - 104 °F	Tip to ground resistance	< 2 ohms
Communication connectors	USB-A / USB-B / LAN / Peripherals	Robot connector	RJ12 (RS-232 Protocol)
Voltage	<b>DME-1A</b> 120V 50/60Hz. Output: 23,5V <b>DME-2A</b> 230V 50/60Hz. Output: 23,5V <b>DME-9A</b> 100V 50/60Hz. Output: 23,5V	Fuse	Overload protection <b>DME-1A</b> 120V 50/60Hz. Input fuse: 6A <b>DME-2A</b> 230V 50/60Hz. Input fuse: 3.15A <b>DME-9A</b> 100V 50/60Hz. Input fuse: 8A

## Your own soldering net

PSE stations allow you to create a personalized network according to your working lines

## Single management

Centralize control of 3 PSE in a single DME station

Available soon

## Increase x4 your DME possibilities

Work with up to 16 tools simultaneously



Available soon

## PSE · Power Supply 4 Tools Control Unit

Ref. **PSE-1A** 120 V, **PSE-2A** 230 V, **PSE-9A** 100 V



### It works with DME stations

The station, which is connected and controlled by a DME station, allows simultaneous connection of 4 tools for **soldering** or **desoldering**.

For a basic working system you need 1 tool, 1 stand and 1 cartridge.

In addition, each tool can be joined with **1 pedal** and **1 module** such as the MSE / MVE Desoldering Modules, the KNE Nitrogen Flow Regulator or the FSE Fume Extractor.

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