



Wisdomshow WDS-620 Professional BGA Rework Station with HD Optical Alignment, Triple-Zone Heating System, and $\pm 0.01\text{mm}$ Precision for Multi-Layer PCB Repair

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: WDS BGA rework station
- Minimum Order Quantity: 1
- Price: CN¥20,622.80



Product Specification

- Max Input Power: 5300W
- Rated Capacity: 5300W
- Voltage: 110V/220V
- Dimensions: L650*W630*H850mm
- Weight: 60kg
- Machine Mode: Auto/semi-auto/manual
- Optical Alignment: HD Camera, 1080P LCD
- Chip Size: Max 80*80mm, Min 1*1mm
- Temperature Control: PLC Control
- Replacement Accuracy: $\pm 0.01\text{mm}$
- Alignment System: CCD Alignment System With LCD
- Heating Type: Infrared And Hot Air
- Operation Type: Software And MCGS Touch Screen Control
- CCD Camera: 5 Million
- LCD Monitor: 15" High Definition



More Images



Product Description

Professional BGA Rework System for Multi-Layer PCB Repair

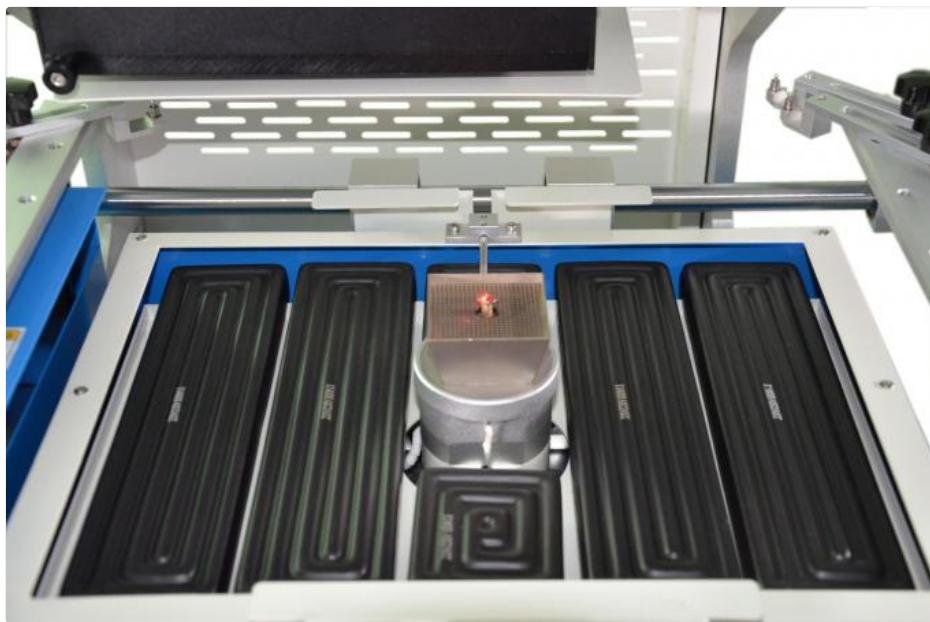
The Wisdomshow WDS-620 Professional Optical BGA Rework System is engineered for precision replacement and repair of BGA chips in laptops, mobile phones, gaming consoles (Xbox 360, PS3), and various consumer electronics. This industrial-grade rework station delivers exceptional accuracy with its advanced X-Y-R alignment control, making it the ideal solution for repair shops and electronic manufacturing facilities requiring high-precision after-sales service and rework operations.



Key Features & Specifications

Model: WDS-620 BGA Rework Station

- Automatic & Manual operation system for flexible workflow
- 5 million pixel CCD camera optical alignment system with $\pm 0.01\text{mm}$ precision
- MCGS touch screen control interface
- Integrated laser positioning system
- Exceptional repair success rate of 99.99%
- Independent triple-zone heating system for optimal thermal management



Precision Optical Alignment System

Equipped with a high-definition adjustable CCD color optical alignment system featuring beam split, amplification, reduction, fine adjustment, and auto-focus capabilities. The system includes automatic color aberration resolution, brightness adjustment, and adjustable image contrast, all displayed on a 15" high-definition LCD monitor for crystal-clear visualization.



Advanced Operation System

Features a high-definition touch human-machine interface with an integrated upper heating head and mounting head design. Multiple titanium alloy BGA nozzles are available, rotating 360 degrees for easy installation and replacement. The X, Y, and R angle micrometer fine-tuning system ensures accuracy within ± 0.01 mm for precise component placement.



Safety & Protection Features

Comprehensive safety system includes automatic alarm function upon completion of BGA welding. Dual over-temperature protection automatically cuts power in case of temperature abuse. Temperature parameters are secured with password protection to prevent unauthorized modifications.

BGA Repair Process

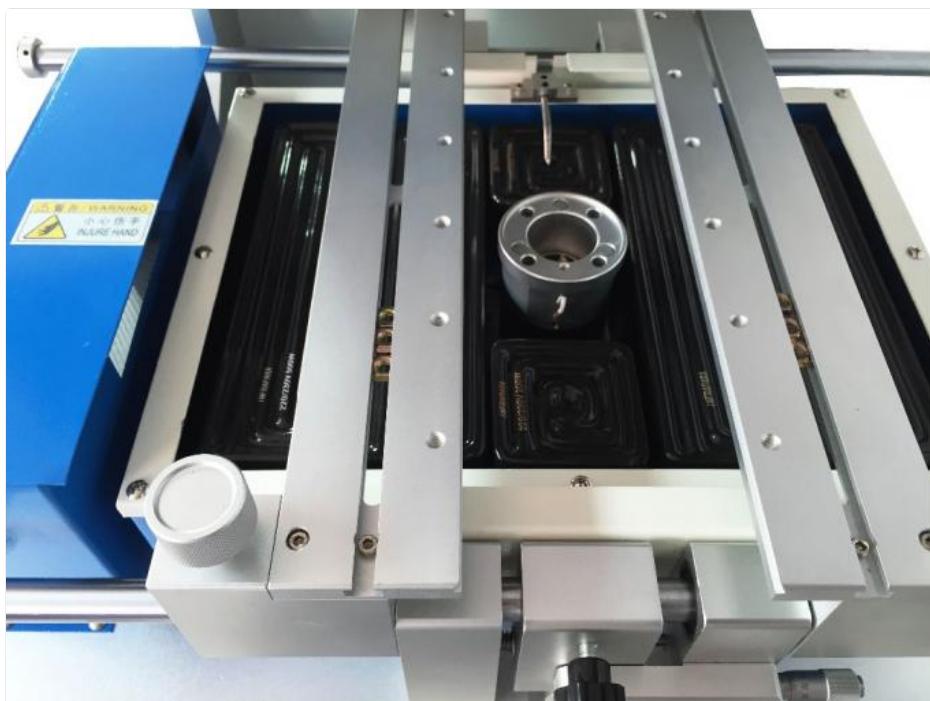
Step-by-Step Repair Procedure

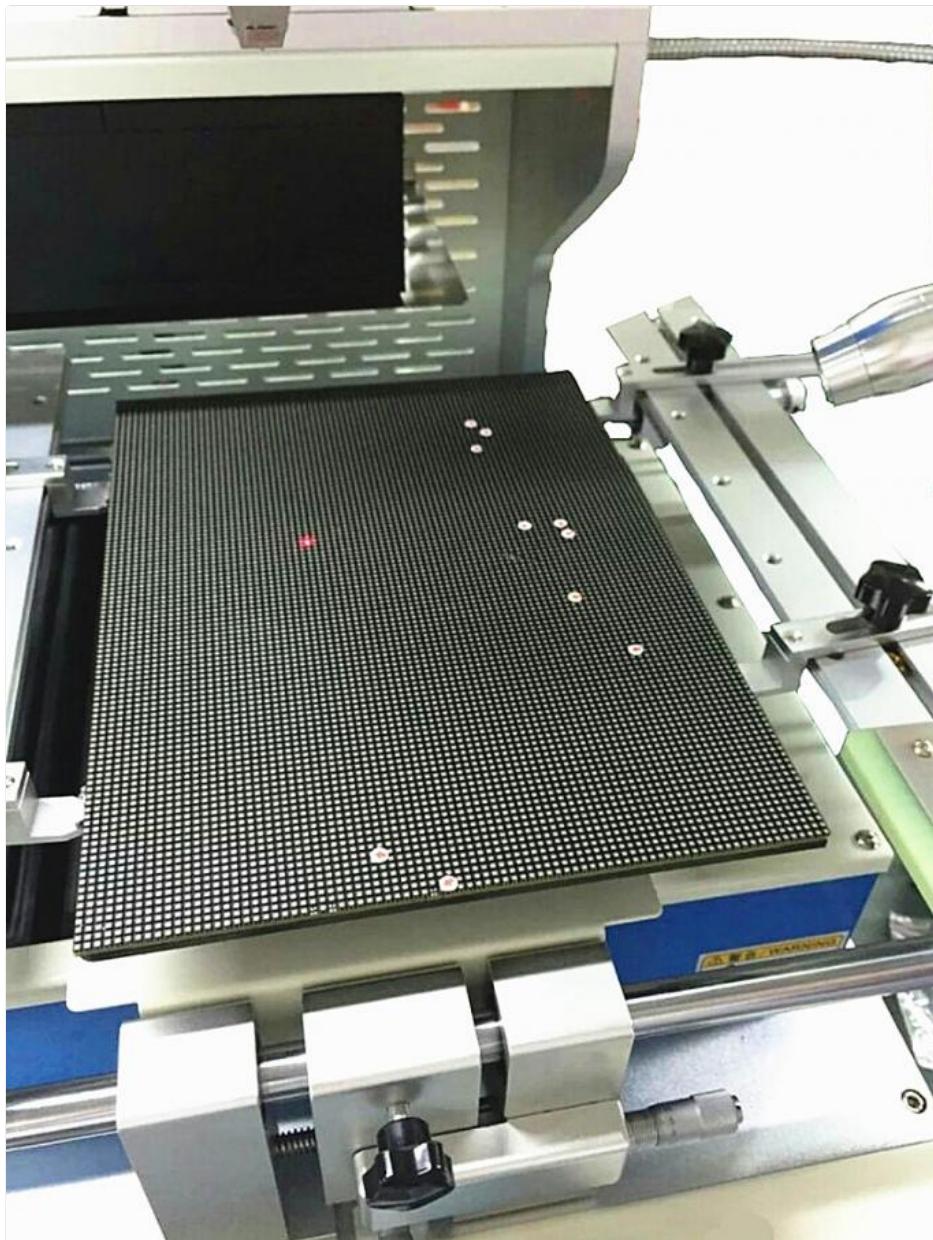
- Desoldering:** Separate BGA chip from motherboard
- Pad Cleaning:** Prepare surface for new component
- Reballing/Replacement:** Apply new solder balls or install new BGA chip
- Alignment/Positioning:** Utilize optical camera and precision controls
- Soldering:** Secure new BGA chip in place

Technical Parameters

The Total Power	5200W
Upper Heating Power Supply	1200W
Lower Heating Power Supply	1200W
Lower IR Heating Power Supply	2700W (1200W controlled)
Power Supply	(Single Phase) AC 220V±10 50Hz
Positioning Method	V-shaped slot, PCB bracket can be adjusted in any X and Y direction, laser positioning light for fast positioning.
Temperature Control	High-precision K-type thermocouple (Ksensor) closed-loop control (Closed Loop), independent upper and lower temperature measurement with a temperature accuracy of up to ±2degrees
Electrical Appliance Selection	Highly sensitive touch screen + temperature control module + PLC + stepper driver
Maximum PCB Size	470×380mm
Minimum PCB Size	10×10mm
Number of temperature measuring interfaces	1个
Chip magnification	2-32 times
The PCB Thickness	0.3-5mm
Apply Chip Size	1*1mm-70*70mm
Minimum chip spacing	0.15mm
Maximum load for mounting	300G
Mounting accuracy	±0.01mm
Overall Dimensions	L605×W655×H710mm
Machine Weight	Net weight 55kg

Product Gallery







Top heater(1200w)

1. Air outlet design ensure focus heating,effective to increase success rate;
- 2.Top air reflow is adjustable,suit for any chips;
- 3.Nozzle equipped different size for different chip



Down heater(1200w):

- 1.Focus heating on desoldering chip;
- 2.Height is adjustable;
- 3.Heat-detector:Can't move,it is used for test temperature
- 4.This screw can adjust to support PCB



Large IR heating Panel

- 1.Preheating PCB,make heating more evenly;
- 2.Protect the PCB avoid deformation during working;
- 3.Infrared heating is more easily absorbed by PCB,increase repair success rate

Heater adjust

Adjust distance PCB and bottom nozzle,suitable distance is 1-2mm



Monitor

- 1.1080p HD monitor
- 2.In the picture,the blue point is for soldering IC,yellow point is for PCB

R axis

It is for chip angle adjust,to get precision alignment

HD Camera

- 1.High precision CCD alignment system;
- 2.5 million pixel;
- 3.Mounting accuracy can reach $\pm 0.01\text{mm}$

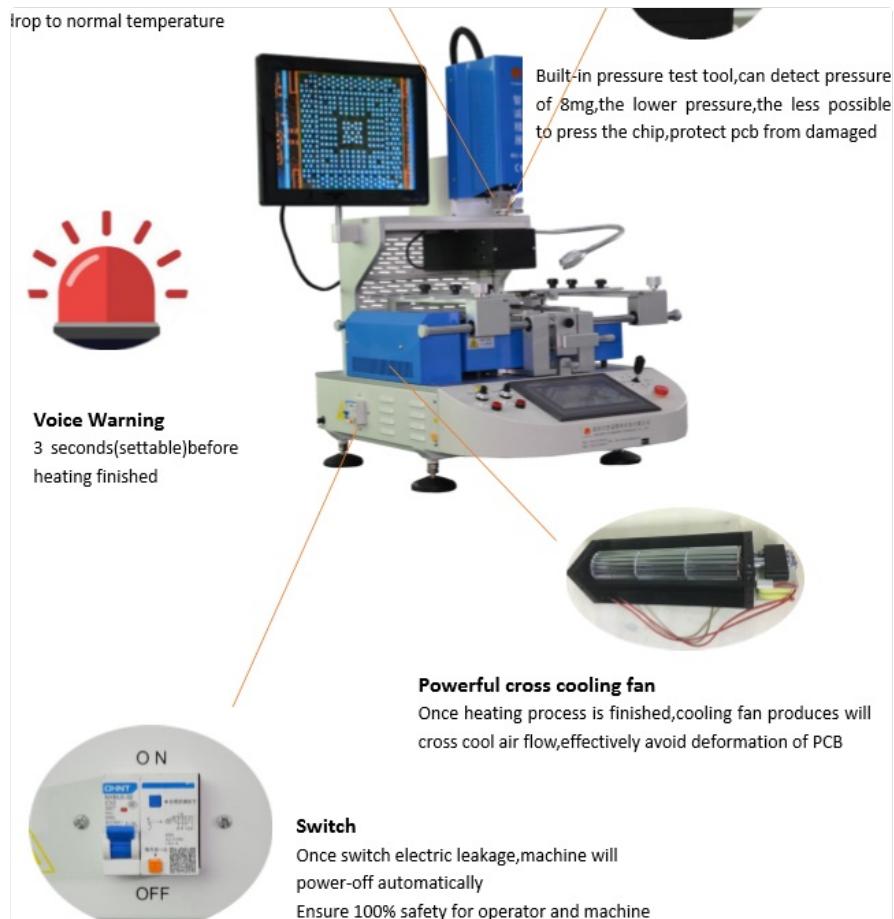
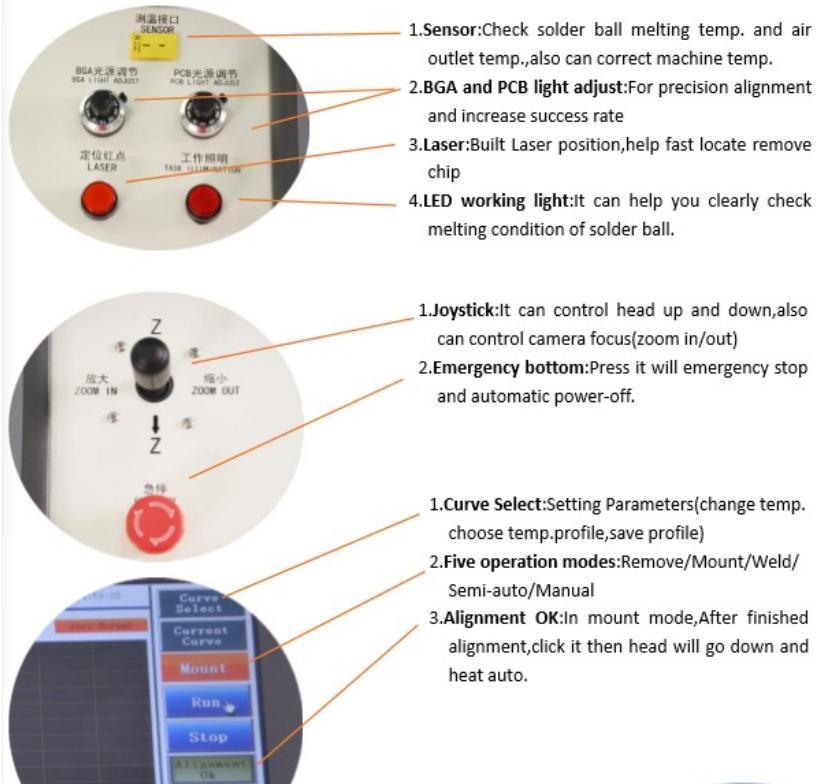
Light Button

1. Adjust camera lightness of BGA and PCB;
2. Increase monitor clearness,make alignment easier

- 1.Adjust PCB left&right,Front&back;
- 2.Ensure every bga and pcb soldering point matching;

Operation System

- ◆ Adopting high sensitive HD MCGS touch screen;
- ◆ It can automatic Remove/Mount/Weld chip.



Packaging & Shipping

All units are shipped in standard export wooden cases with secure packaging. Delivery commences within 2 working days after payment confirmation. We ship worldwide via TNT, DHL, FEDEX, air, or sea freight from Shenzhen or Hong Kong ports.





Manufacturer Profile

Shenzhen Wisdomshow Technology Co., Ltd., founded in 2011 by experienced engineers and sales professionals, specializes in BGA rework stations and X-RAY inspection equipment. With continuous R&D and technological innovation, the company expanded into X-RAY technology in 2015, launching several advanced inspection systems. Operating from a 10,000 square meter facility in Shenzhen Baoan, Wisdomshow holds ISO9001 and CE certifications, multiple patents, and offers strong customization capabilities.

Our solutions serve clients across Asia, Europe, and North America in server motherboard repair, LED assembly, and smartphone production. Guided by professionalism, innovation, and integrity principles, we continue to earn global trust and recognition.





Service & Support

24/7 Technical Support: Available via email and phone

Warranty: One year free warranty (buyer covers relative costs)

Training: Demo operation videos and on-site training available

Documentation: Comprehensive English user manual provided

Pricing: Competitive discounts for agencies and distributors

Certificate Of Conformity

BORY

No.: BAC220590145S

Applicant.....: Shenzhen Wisdomshow Technology Co.,Ltd.

Address.....: 3F Eastern, 2F Eastern Building 7, Haosi Western Industrial Park, Heyi Community, Shajing Town, Bao'an District, Shenzhen, China

Manufacturer.....: Shenzhen Wisdomshow Technology Co.,Ltd.

Address.....: 3F Eastern, 2F Eastern Building 7, Haosi Western Industrial Park, Heyi Community, Shajing Town, Bao'an District, Shenzhen, China

Trademark.....: N/A

Product.....: BGA rework station

Model(s): WDS-750, WDS-650, WDS-620, WDS-800A, WDS-1250, WDS-520, WDS-580, WDS-680, WDS-700, WDS-900, WDS-1390

Directives.....: Machinery Directive 2006/42/EC

Standards.....: EN ISO 12100:2010

EN 60204-1:2018

Report No.....: B2205TR90145S

Remark: The certification is only valid for the equipment and configuration described, in conjunction with the test data detailed above.

The CE mark as shown beside can be used, under the responsibility of the manufacturer, after completion of an EC Directive of Conformity and compliance with all relevant EC Directive.

CE

Approved by/Date:



Shenzhen Bory Technology Service Co., Ltd.

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Customer Testimonials

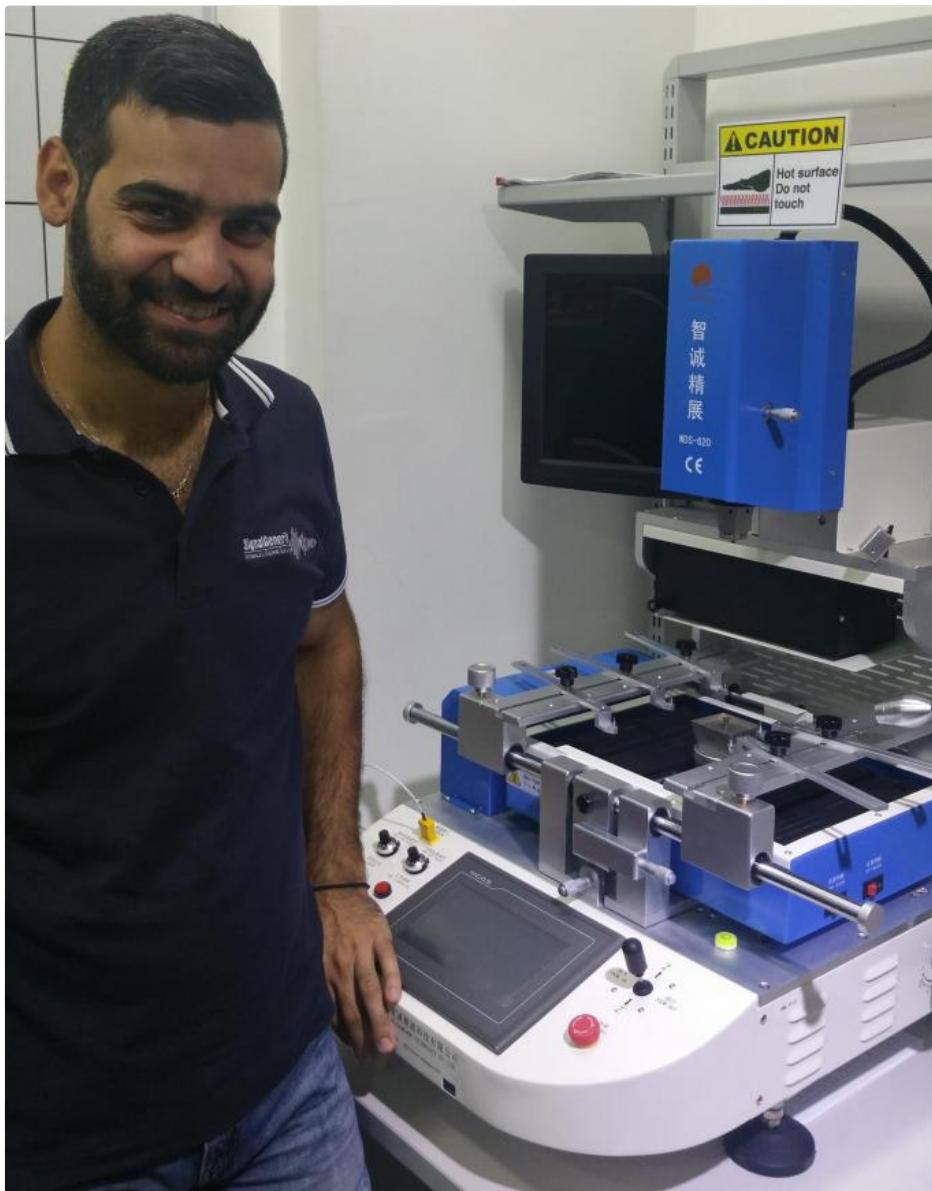
"Hi mate, your best price and high purity product is so competitive in my country, this let me make much profit, my customers are really like it. Cooperate with you is so wonderful! thank you!" - Richard, Turkey

"I have received my products, your packing is do discreet and perfect, it really amazed me. I will order more from you as soon as possible. Thanks a lot." - Robert, Australia

"I have cooperated with you for many times, your product quality is so great, that is why I still buy the products from you. Thank you." - Corentin, Brazil







Related Products



WDS-S7



WDS-620



WDS-650



WDS-750



WDS-800A



WDS-1250

Ready to Order?

Contact us today for pricing information and technical specifications. Our team is available to answer any questions and provide demonstration videos. We welcome visits to our facility for hands-on training with our engineering team.

Place your order now and experience professional BGA rework solutions!



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