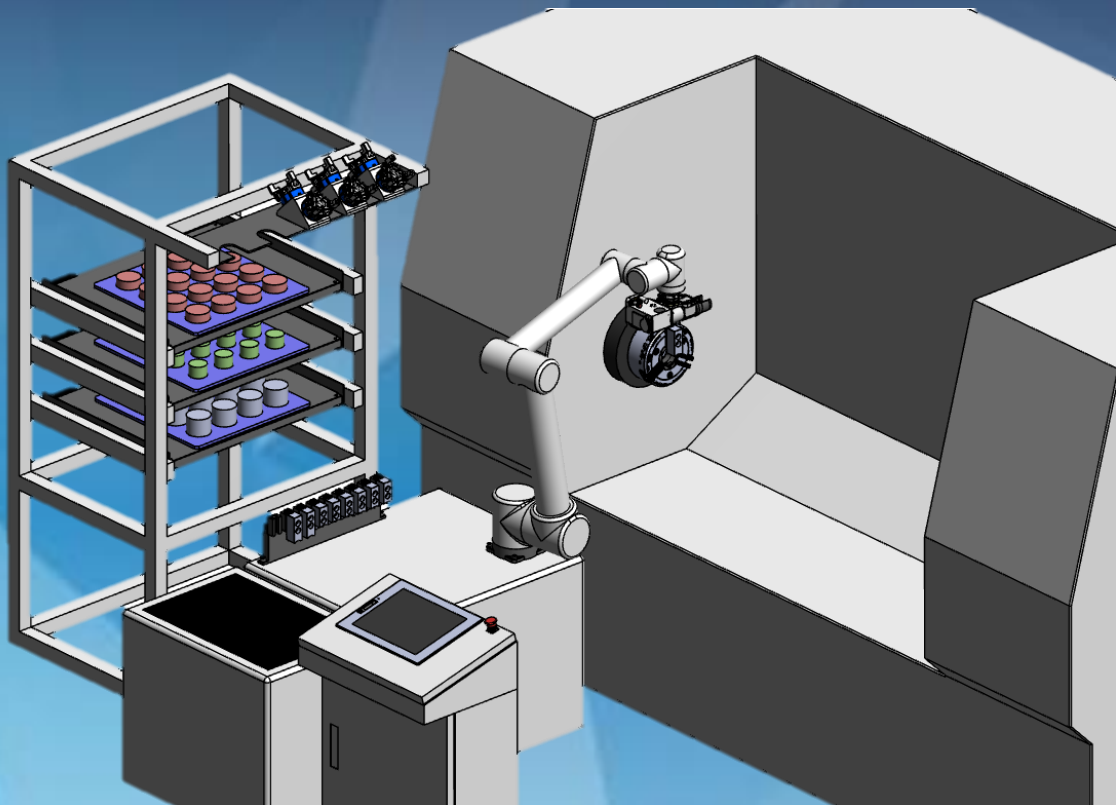


BR-AJC

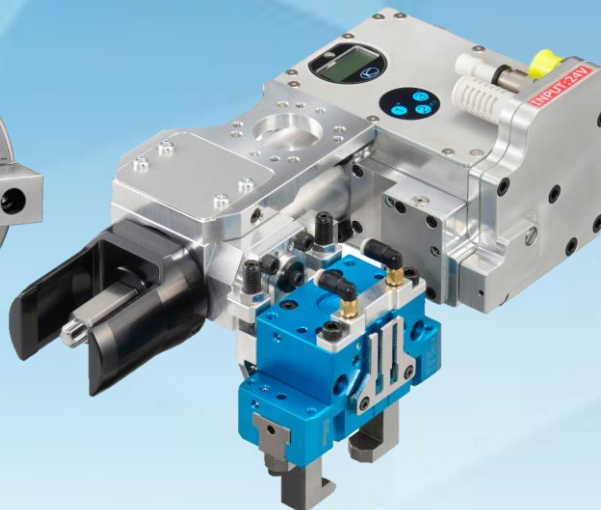
kitagawa

Automatic Jaw Changing system

Can be installed with standard BR chuck and standard jaws
The gripping accuracy after jaw replacement is 0.01mm T.I.R or less



BR
SERIES



BR-AJC_E
(End effector)



BR-AJC_M
(Special T-nut + Torx bolt)



**ROBOT
ACCESSORY**

BR/BRT chuck to unmanned automatic jaw changing system

Customer responsibility

NC lathe (with C-axis)

Work stocker

Robot

Jaw stocker base

Jaw cleaning device

Control panel

Kitagawa responsibility

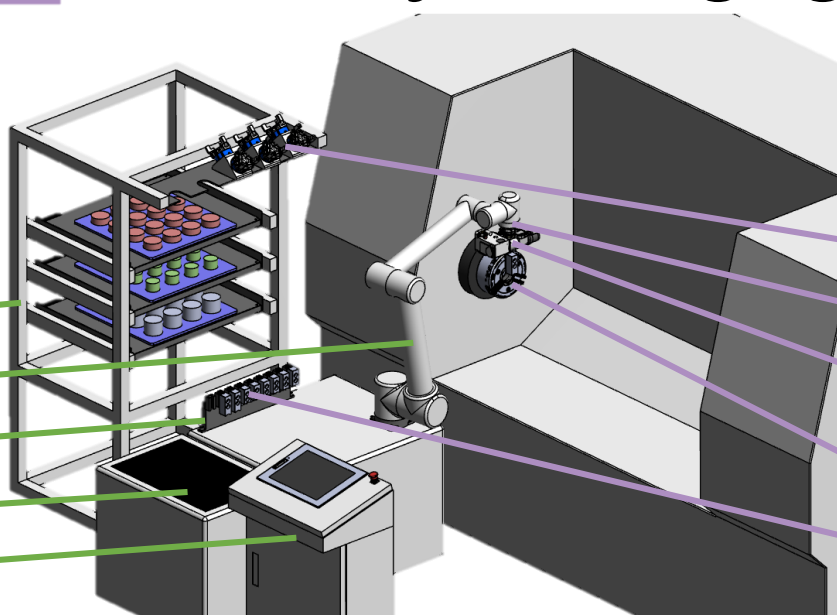
Workpiece transportation gripper

Hand changer

End effector (BR-AJC_E)

BR chuck

Jaw stocker



CHUCK

Next Generation
Standard Chuck

BR
SERIES



Pat. No. 6411619
Pat. No. 6345321

BR-AJC_M

Tnut-Plus

mechanism is employed
Pat. No. 6345375



Gripping accuracy: 0.01mm T.I.R. or less

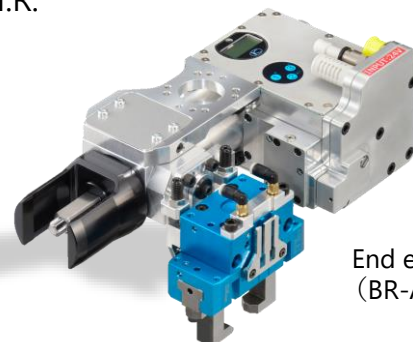
With gripping accuracy that surpasses conventional standard chucks, it can also be used for finishing.

Reduces jaw lift

High rigidity ensures stable processing quality

No need to reform jaws when changing setup

Even after removal, the jaw does not need to be reformed because the repeatability is within 0.01mm T.I.R.

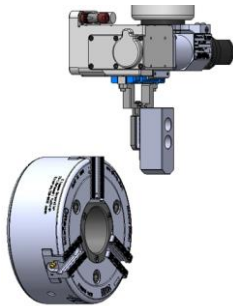


End effector (BR-AJC_E)

The introduction of the special end effector enables automated systems utilizing the innovative mechanisms of the BR family!

- 1 Existing BR chuck and jaws can be used **as they are**.
- 2 Gripping accuracy after jaw replacement is **0.01mm T.I.R. or less**.
➡ **No jaw reforming is required.**
- 3 Light weight and compact design
- 4 Comprehensive proposals can be offered, including grippers and hand changers.

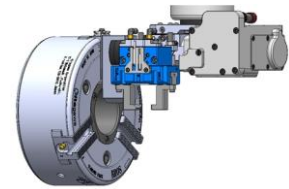
Jaw installation procedure



Transport jaw



Insert jaw



Tighten bolts

Phased introduction is possible

- Existing facilities can be used
- Introduction cost can be spread

Improved gripping accuracy



BR chuck



Tnut-plus

Step 1

High precision chuck of gripping accuracy, 0.01mm T.I.R. or less



Reduce installation errors



BR chuck



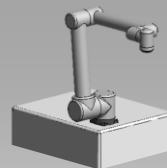
BR-AJC_M

Step 2

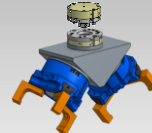
NO matter who puts the jaw on, it will be in the same position.



Automating workpiece transport



Robot



Work transportation gripper



Length measuring gripper

Step 3

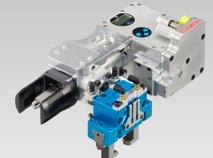
Introducing robot and gripper automates workpiece transport and inspection.



Multi-product automated production



Proposal of various automation items in combination



End effector (BR-AJC_E)



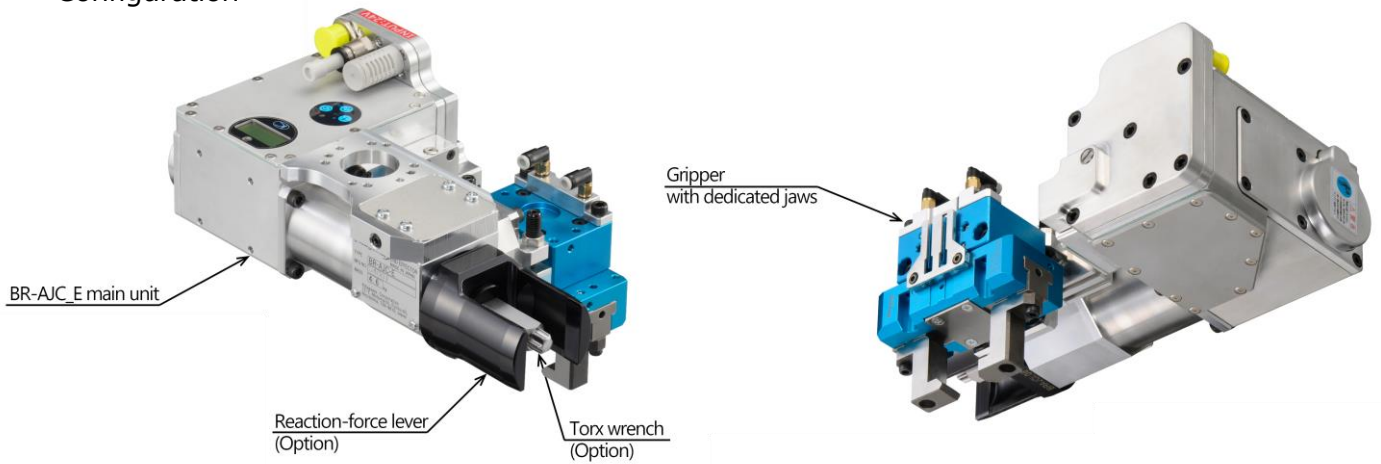
BR-AJC_M

Special torx bolt (with O-ring)

Step 4

By introducing BR-AJC_E, automatic jaw replacement becomes possible.

Configuration



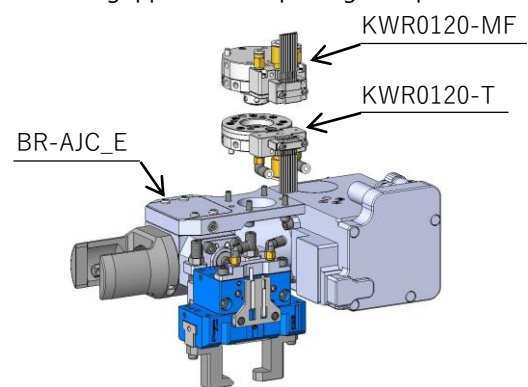
Specification

Type		BR-AJC06E	BR-AJC08E	BR-AJC10E
Dimensions	Length (mm)	265		
	Height (mm)	140		
	Width (mm)	139		
Mass (kg)		5.5		
Preset torque (Nm)		47	80	107
Suitable chuck		BR06 / BRT06	BR08 / BRT08	BR10 / BRT10
Suitable soft jaw *Max. jaw height: 56 mm		SJ06B1 SJ06A1T SJ06A1-066* SJ06A1T066*	SJ08B1 SJ08A1 SJ08S1 SJ08A1-056 SJ08A1T056	SJ10B1 SJ10A1 SJ10A1-056

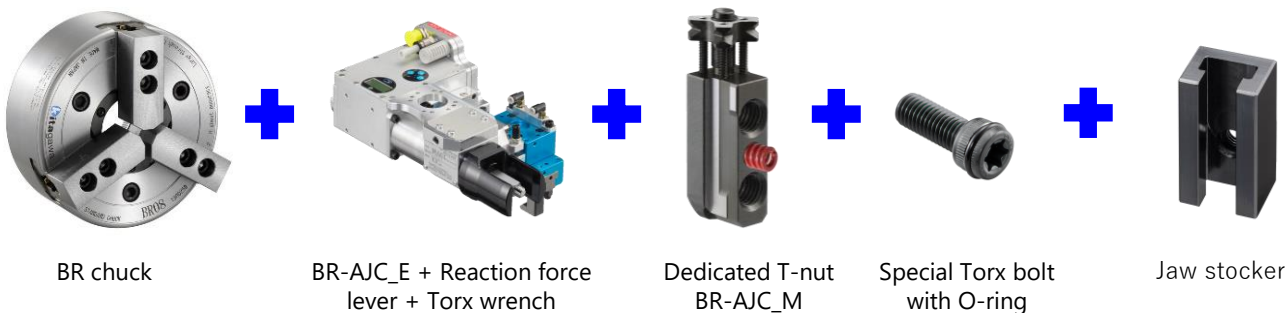
*Please form jaws so that the maximum height is 56mm or less.

Hand changer can be installed

The Kitagawa robot hand changer KWR0120 can be directly attached, so it can also be used in conjunction with a gripper for transporting workpieces.



*The robot hand changer must be purchased separately.



System configuration

Chuck type	Core components			Dedicate T-nuts	Torx bolts with O-rings	Jaw stockers
	Main unit	Reaction-force lever	Torx wrench			
BR06 / BRT06	BR-AJC-E with jaw transport gripper	BRAJCL06	BRAJCWT10	BR-AJC06M	M10x25	BR-AJC06S
BR08 / BRT08		BRAJCL08	BRAJCWT12	BR-AJC08M	M12x30	BR-AJC08S
BR10 / BRT10		BRAJCL10		BR-AJC10M		BR-AJC10S

1. Stocker bases are not included with the jaw stockers.

2. The robot, jaw cleaning device, system setup, and other necessary components are to be arranged by the customer.

Kitagawa product technical information is available on the Kitagawa Web Showroom.
<https://prod.kiw.co.jp/exhibition/mttools/en/>



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<https://www.kiw.co.jp>

<https://www.kitagawa.com>

<https://www.kitagawa.com.cn>

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• Product specifications and appearance are subject to change without notice due to ongoing research and development.
• The color of the actual product may be different from the catalogue's due to printing matters.
• Catalog information is current as of September 2024

• The products listed in this document are subject to control under the Japanese Foreign Exchange and Foreign Trade Control Act.
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