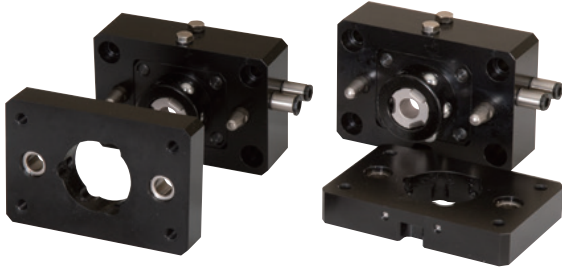


Smart Hand Adapter (SHA)

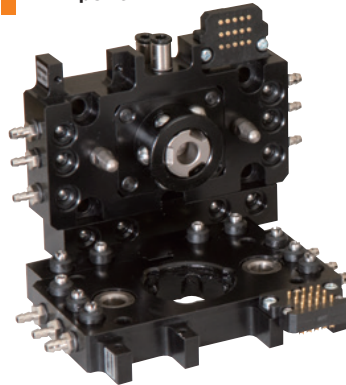
Accessories

SHA: HRXIII-100~850 i/b series

10kg Smart Hand Adapter, without ports



10kg Smart Hand Adapter, with ports



35kg Smart Hand Adapter, with ports



To shorten EOAT changing time in multi-product, small- and medium-volume production

Problems related to EOAT replacement.

- ① It takes time (at least 10 min.) as all the wiring, pipework and mounting bolts have to be redone.
- ② The positioning is unclear, so the positioning needs to be taught again during the grip trial.
- ③ Sometimes the wrong EOAT is installed.
- ④ Wrong installation of wiring or tubing happens.

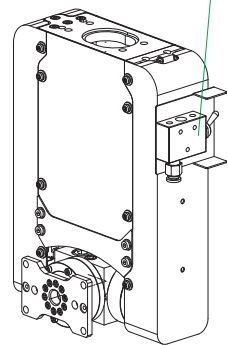


Smart Hand Adapter can solve the problems above.

- ① One-touch installation. No wiring and piping required with electric and pneumatic ports. Changeable in 15 seconds.
- ② High repeatability with positioning pin of Smart Hand Adapter.
- ③ No mistakes with automatic EOAT change. When different EOAT is installed on the attachment plate, the robot recognizes it as an error.
- ④ Electric and pneumatic ports are available, so no wiring or plumbing mistakes.

Expansion example of manual detachable valve

Manual detachable valve



When adding to an existing machine, an additional manual detachable valve is required for the machine body.

Ordering code

SHA-10 R-E

Series name ① ② ③

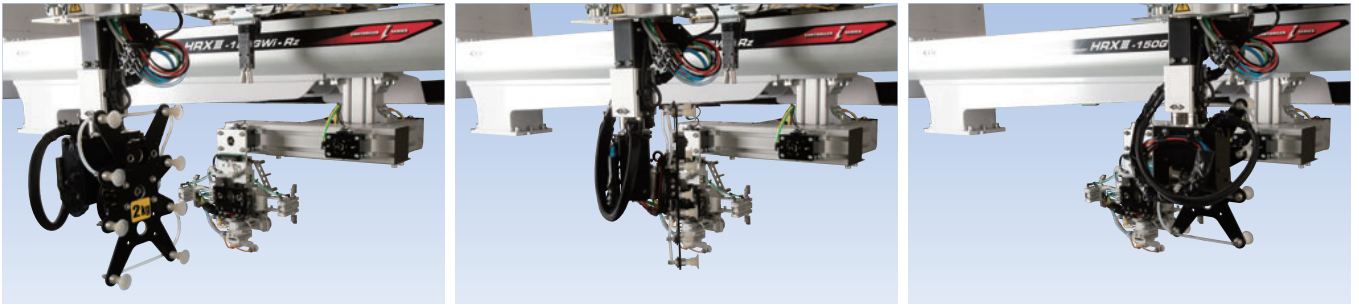
- ① **Payload** ② **Mounting type**
 10...10Kg R...Robot side
 35...35Kg A...Attachment side

- ③ **Pneumatic port**
 E Pneumatic port: 6 circuits
 *E specification is connector (15Pin is standard)
 EC Pneumatic port: 6 circuits
 Electrode connector 15P×1, with 1m cable
 Blank ... None
 *Without connector and pneumatic port

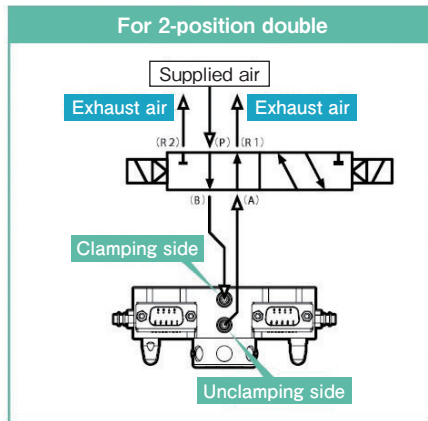
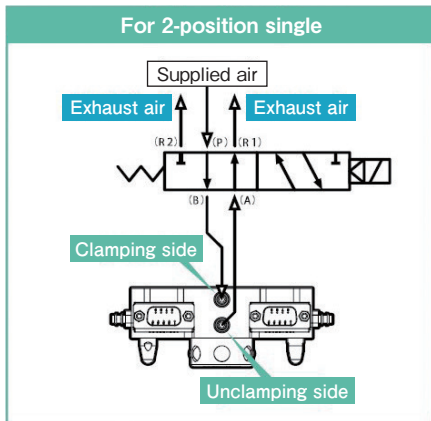
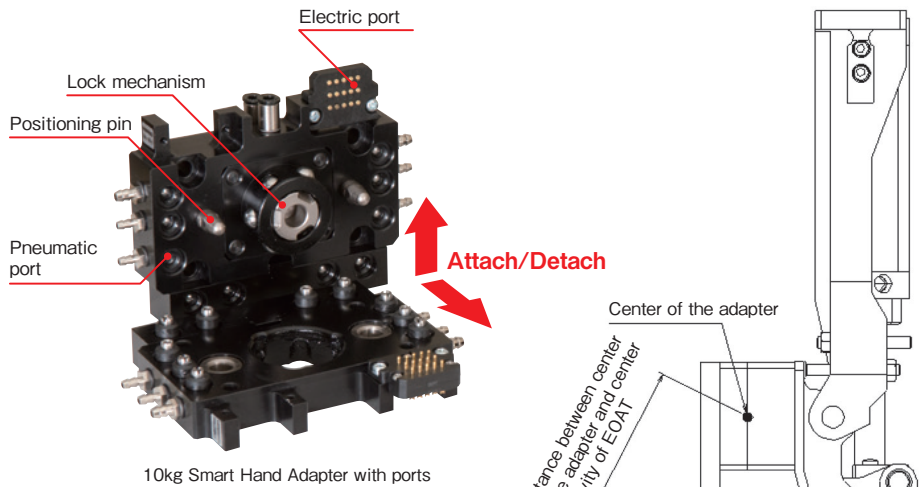
Part code	品目名称	Specification
*SHA-10R	Smart Hand Adapter (robot)	Low cost type (Expansion pneumatic port can be installed)
*SHA-10R+B	Extension pneumatic port (robot)	OP expansion pneumatic port for SHA-10R(-E)
*SHA-10R-E	Smart Hand Adapter (robot)	Typical type (6 pneumatic port circuits / electrode 15P 1 pc)
*SHA-10A	Smart Hand Adapter (attachment)	Low cost type (Expansion pneumatic port can be installed)
*SHA-10A+B	Extension pneumatic port (attachment)	OP expansion pneumatic port for SHA-10A(-E)
*SHA-10A-E	Smart Hand Adapter (attachment)	Typical type (6 pneumatic port circuits / electrode 15P 1 pc)
*SHA-35R+B	Extension pneumatic port (robot)	OP expansion pneumatic port for SHA-35R-E
*SHA-35R-E	Smart Hand Adapter (robot)	Typical type (6 pneumatic port circuits / electrode 15P 1 pc)
*SHA-35A+B	Extension pneumatic port (attachment)	OP expansion pneumatic port for SHA-35A-E
*SHA-35A-E	Smart Hand Adapter (attachment)	Typical type (6 pneumatic port circuits / electrode 15P 1 pc)
*SHA-DCR+15P	Extension electrode connector (robot)	OP electrode connector expansion for SHA-10(35)R-E
*SHA-DCA+15P	Extension electrode connector (attachment)	OP electrode connector expansion for SHA-10(35)A-E
SHA-10A-EC	SHA electrode Assy with 1m cable (A, outside)	Standard type (6 pneumatic port circuits / electrode connector 15P 1 pc / with 1m cable)
SHA-10R-EC	SHA electrode Assy with 1m cable (R, outside)	Standard type (6 pneumatic port circuits / electrode connector 15P 1 pc / with 1m cable)
SHA-35A-EC	SHA electrode Assy with 1m cable (A, outside)	Standard type (6 pneumatic port circuits / electrode connector 15P 1 pc / with 1m cable)
SHA-35R-EC	SHA electrode Assy with 1m cable (R, outside)	Standard type (6 pneumatic port circuits / electrode connector 15P 1 pc / with 1m cable)
SHA-DCA+15PC	Extension electrode connector Assy with 1m cable (A, outside)	OP electrode connector extension for SHA-10(35)A-E (attachment side) with 1m cable
SHA-DCR+15PC	Extension electrode connector Assy with 1m cable (R, outside)	OP electrode connector extension for SHA-10(35)R-E (robot side) with 1m cable

Example of automatic EOAT change

With automatic EOAT change, EOAT change becomes much easier

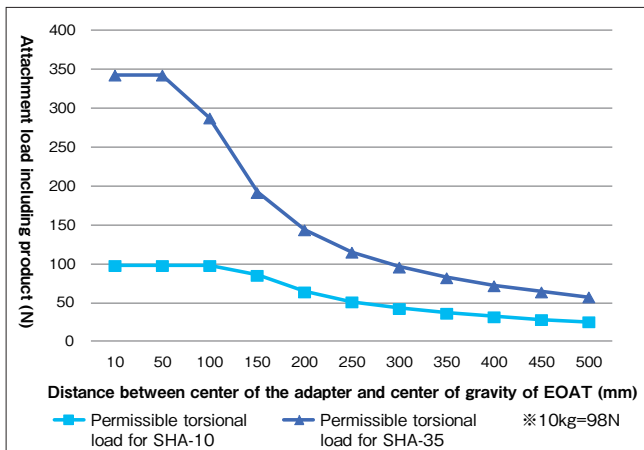


Easy attachment and detachment!
Certain replacement!
Onestep attachment and detachment for pneumatic and electrical ports!

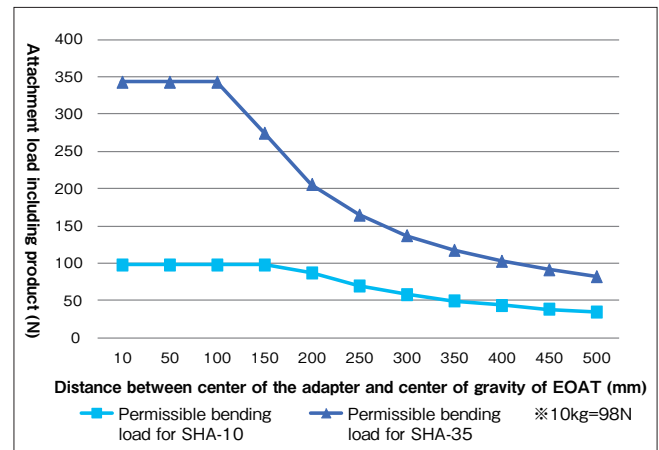


Note
 For the selection and use of the product, check the payload and distance to the centre of gravity in the graph below.

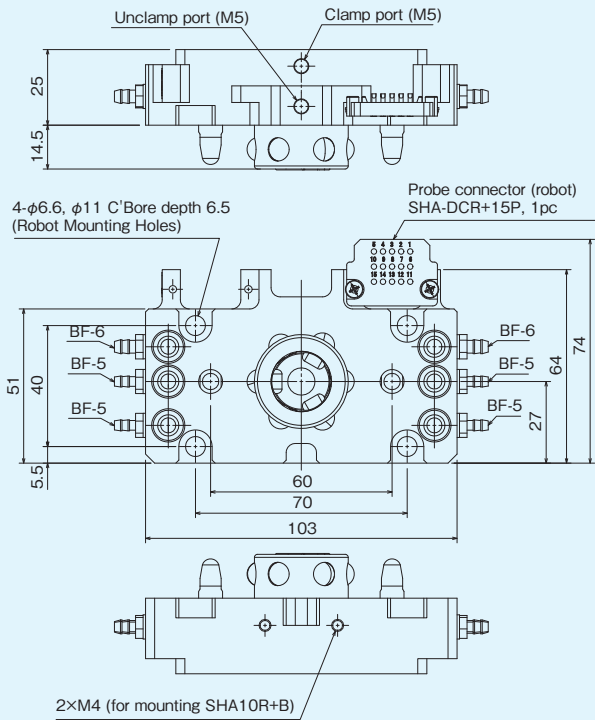
Permissible torsional load for SHA series



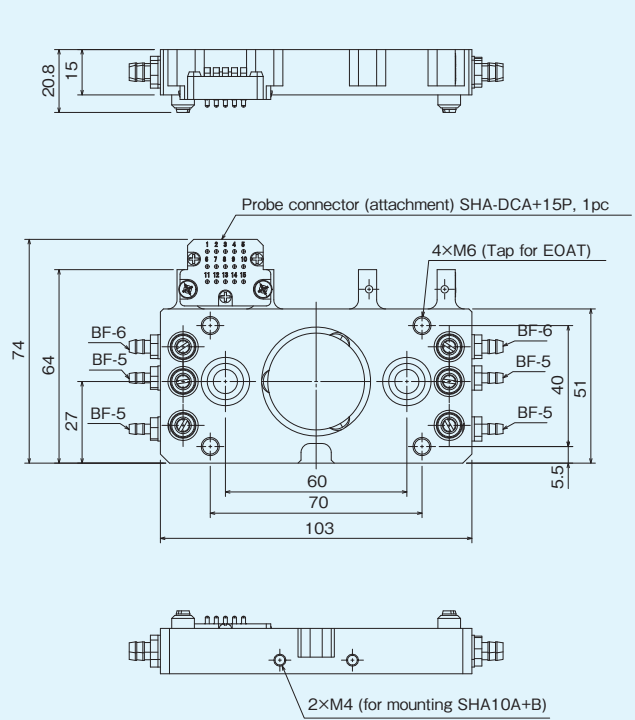
Permissible bending load for SHA series



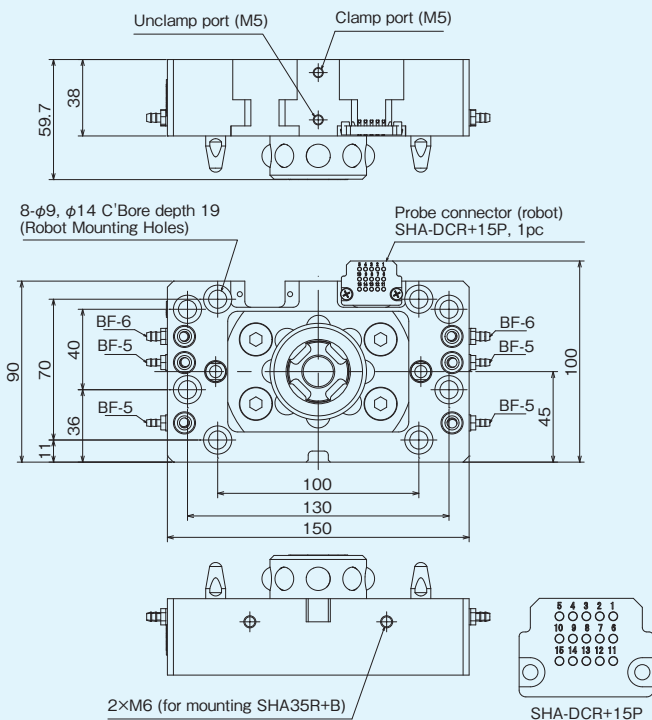
SHA-10-R-E Smart Hand Adapter (robot)



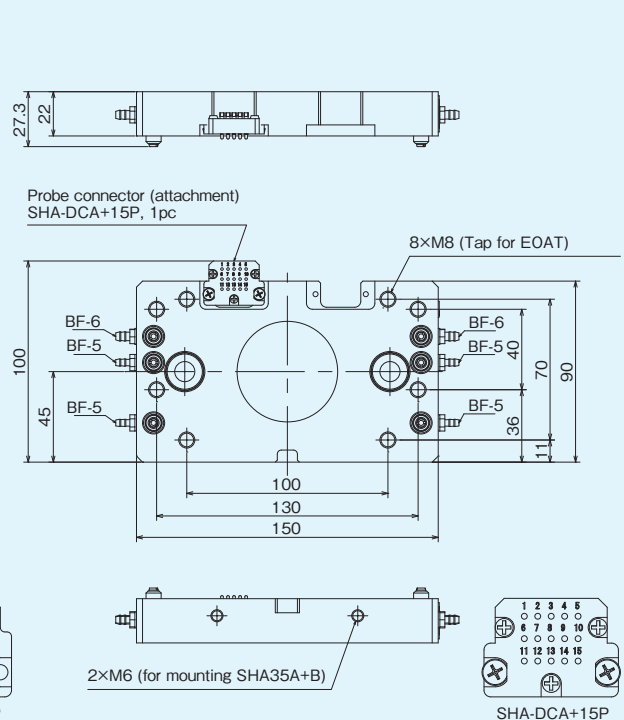
SHA-10-A-E Smart Hand Adapter (attachment)



SHA-35-R-E (robot)

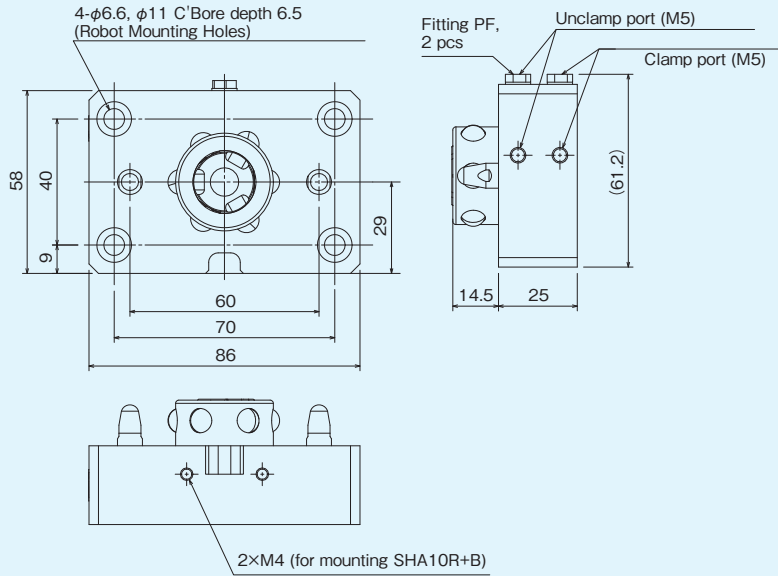


SHA-35-A-E (attachment)

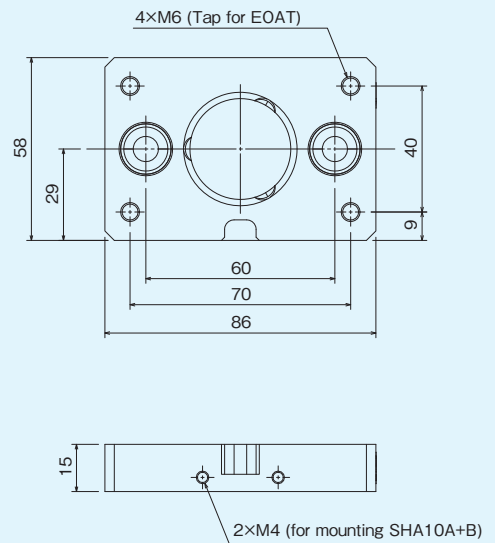


	SHA10-R-E(C)	SHA10-A-E(C)	SHA35-R-E(C)	SHA35-A-E(C)
Pneumatic port	6 circuits		6 circuits	
Electrode	Probe connector (15P)		Probe connector (15P)	
Material	Super duralumin		Super duralumin	
Payload (Kg)	~10		~35	
Thickness when connected (mm)	40		60	
Weight (g)	600	400	1550	780
Additional connector	SHA-DCR+15P	SHA-DCA+15P	SHA-DCR+15P	SHA-DCA+15P

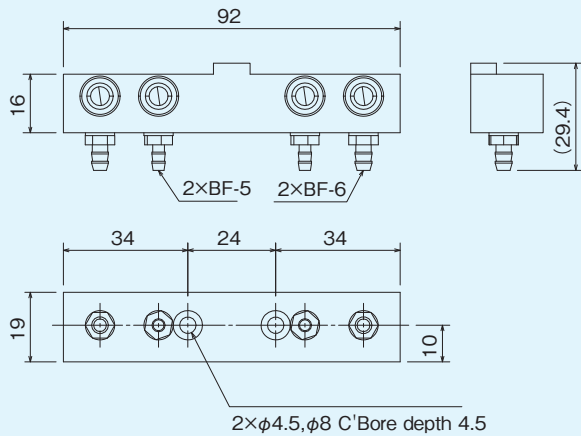
SHA-10R (robot)



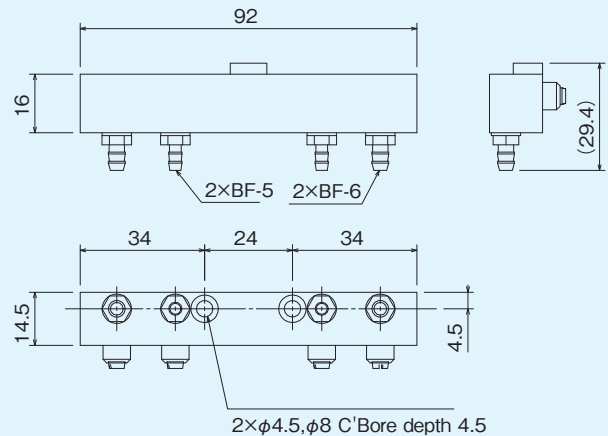
SHA-10A (attachment)



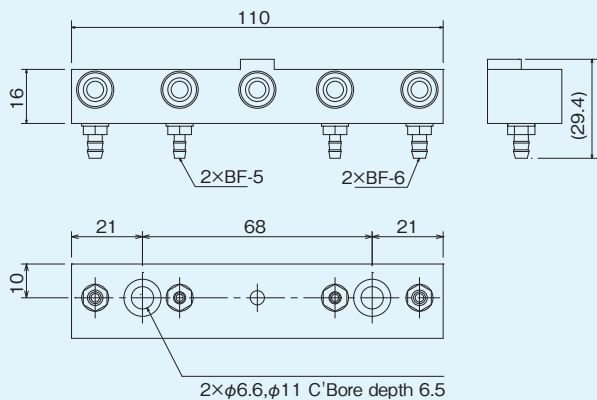
SHA-10R+B Extension pneumatic port block (robot)



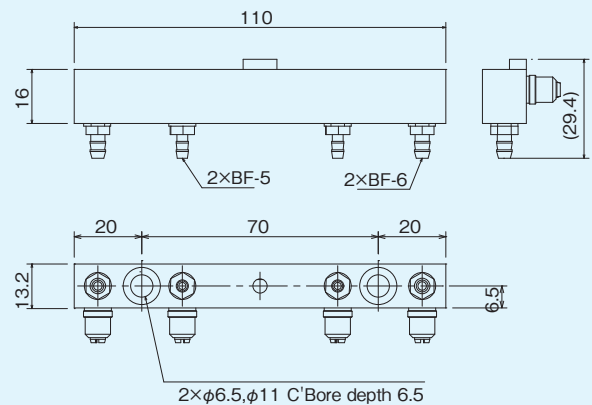
SHA-10A+B Extension pneumatic port block (attachment)



SHA-35R+B (robot)



SHA-35A+B (attachment)



	SHA-10R	SHA-10A	SHA10-R+B	SHA10-A+B	SHA35-R+B	SHA35-A+B
Pneumatic port	None		4 circuits		4 circuits	
Electrode	None		-		-	
Material	Super duralumin		Super duralumin		Super duralumin	
Payload (Kg)	~10		-		-	
Thickness when connected (mm)	40		-		-	
Weight (g)	520	300	90	70	115	82
Accessories	-		Mounting bolt (M4), 2pcs		Mounting bolt (M6), 2pcs	