

INSTRUCTION MANUAL MODEL NTS2

2-jaw Parallel Gripper

DANGER

- This Instruction Manual has been prepared for intended use for production engineers and maintenance persons who operate this product. When the beginners use this product, be sure to receive the guidance from skilled persons, sales agents, or us in advance.
- Before installing, using, or maintaining this product, read carefully the safety precautions given in this manual so as to understand them completely. If you do not heed given instructions or safety precautions, serious human accidents, death, or physical damage may occur.
- Store this manual with care in the specified place at hand, and reread it as necessary for correct use of the product.
- Please contact the sales agent if you have any uncertainty or doubt about this manual.

Preface

This manual provides detailed information on the 2-jaw parallel gripper (model NTS2) so that you can understand its performance and functions and use it safely and correctly. Before using this gripper, read this manual carefully to understand how to use the gripper correctly. Always follow the instructions and warnings given in <u>"Important Safety Precautions"</u> and <u>"Precautions for Use"</u>. Failure to follow these precautions could result in serious human accidents.

Terms and Symbols Used for Safety Messages

In this manual, handling precautions that are considered especially important are classified and displayed as shown below according to the degree of risk (seriousness of harm) that could result. Please completely understand the meaning of these terms and follow the instructions for safe operation.

Alert Symbol

This triangle is a safety alert symbol used to alert you to potential safety hazards. To avoid death or injuries that could occur, follow the safety messages given with this safety alert symbol.



Disclaimer and How to Use Instruction Manual

This product is suitable for gripping a conveyed workpiece by being installed on the robot or loader. The product is equipped with the jaws to grip the conveyed workpiece and they are operated by air pressure. For any other applications, please contact us. Kitagawa Iron Works Co., Ltd. shall not be held liable for human accidents, death, damage, or loss that occurred due to a failure to follow the safety precautions given in this manual.

This manual does not predict all potential hazards in operation, inspection, and maintenance under all environmental conditions. There will be an infinite number of matters that cannot or must not be done, and it is impossible for the manual to cover all of them. Therefore, the matters, unless otherwise mentioned clearly as "can be done" or "may be done" in this manual, should be considered as "cannot be done" or "must not be done". Please contact us or our agents if you have an uncertainty about safety when you try to perform operation, inspection, or maintenance not mentioned in this manual.

Warranty and Disclaimer

The product is warranted for one year after the date of delivery.

All parts used shall be those delivered by Kitagawa Corporation. Kitagawa Corporation shall not be held liable for human accidents, death, damage, or loss that occurred due to the use of parts which are not genuine parts manufactured by Kitagawa. Also, the use of parts other than Kitagawa's genuine parts will void the warranty.

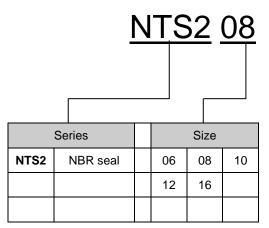
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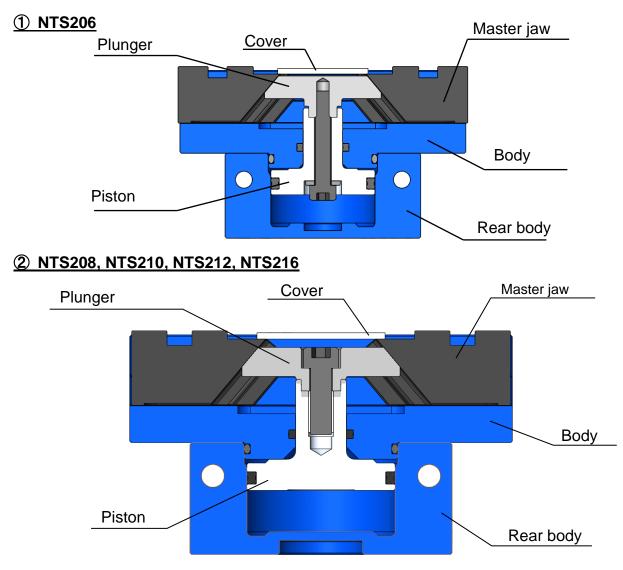
1. Structural Drawing and Parts List

1-1. Model indication

The model indication is as follows:



1-2. Structural drawing



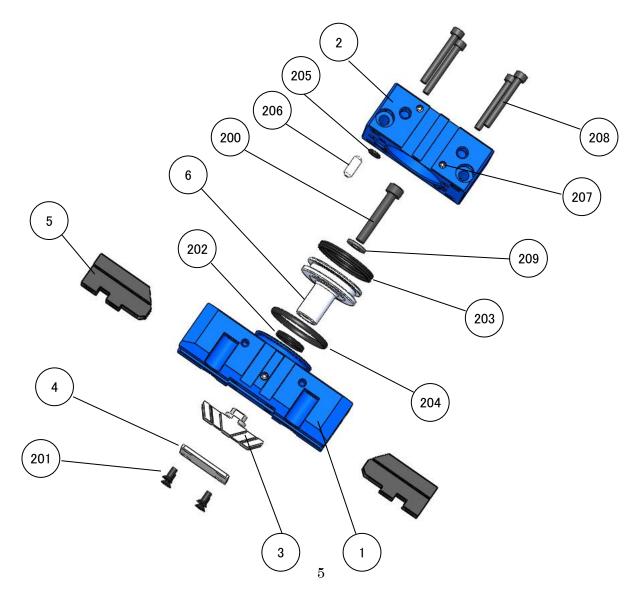
1-3. Seal list

	No.							
Model	202	203	204	205	209			
NTS206	X-ring X013	X-ring X118	O-ring S25	O-ring P3	Seal washer 4S1			

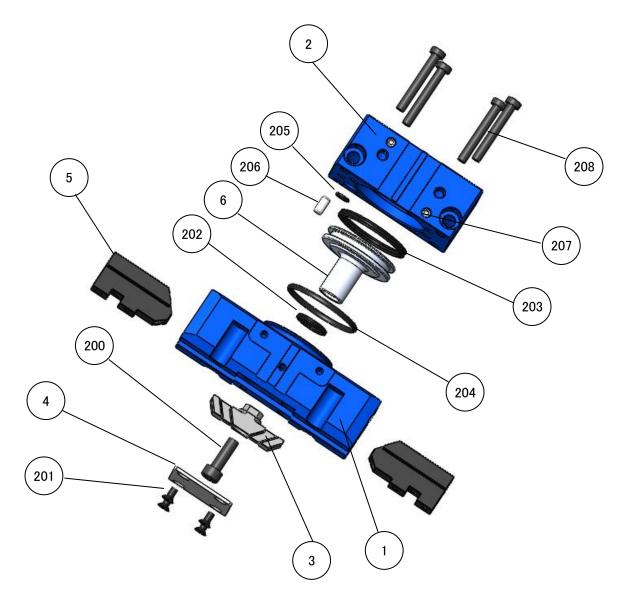
	No.									
Model	202	203	204	205						
NTS208	X-ring X014	X-ring X123	O-ring S30	O-ring P4						
NTS210	X-ring X114	X-ring X128	O-ring S40	O-ring P4						
NTS212	X-ring X116	X-ring X133	O-ring S48	O-ring P6						
NTS216	X-ring X119	X-ring X142	O-ring S60	O-ring P6						

1-4. Seal list

<u>1 NTS206</u>



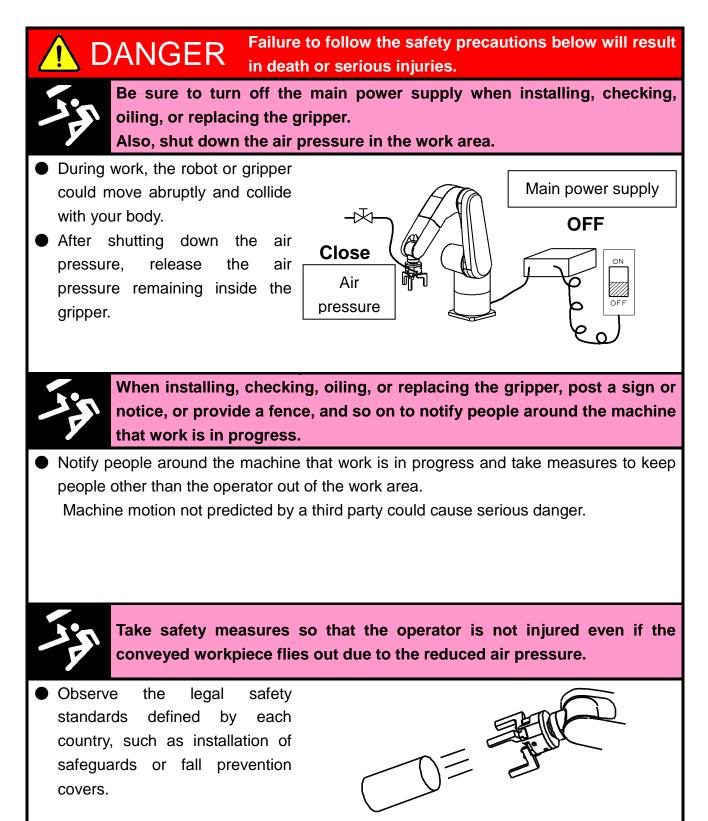
② NTS208, NTS210, NTS212, NTS216



No.	Parts name	Quantity	No.	Parts name	Quantity
1	Body	1	202	Shaft packing	1
2	Rear body	1	203	Piston packing	1
3	Plunger	1	204	O-ring A	1
4	Cover	1	205	O-ring B	1
5	Master jaw	2	206	Parallel pin	1
6	Piston	1	207	Setscrew	6
200	Piston fixing bolt	1	208	Rear body fixing bolt	4
201	Cover fixing bolt	4	209	Seal washer	1

2. Important Safety Precautions

Important safety precautions that particularly you should know or follow are summarized below. Please read them before starting to use the product.



A DANGER Failure to follow the safety precautions below will result in death or serious injuries.



Do not modify the gripper.

Not only the gripper is damaged but also the gripper and fixed workpiece may fly out.



If using the gripper as a workpiece fixture when the workpiece is drilled, deburred, welded, or modified additionally, confirm the specifications.

 If the gripper is used out of the specifications, not only the gripper is damaged but also the fixed workpiece may fly out.



Be sure to tighten the bolts with the specified torque.

- Lack of bolt quantity or tightening torque, or excessive torque could damage the bolt, causing the gripper or conveyed workpiece to fly out.
- When tightening the bolts, fix the gripper so that it will not rotate.
 Failure to do so may result in injury by slipping your hands when tightening the bolts.

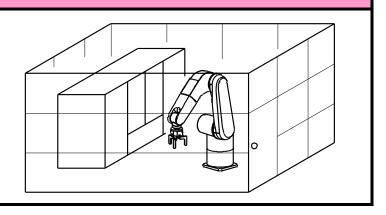
Other	than pist	on fixin	g bolt	Piston fix	king bolt	
Bolt	Bolt Tightening			Tightening		
Size	torq	ue	Size	torc	lne	
М3	1.0 N·m		M4	3.4	N∙m	
M4	2.0 N·m		M5	6.8	N∙m	
M5	4.5	N∙m	M6	12.7	N∙m	
M6	6 7.65 N∙m		M8	33.3	N∙m	
M8	M8 18.0 N·m					

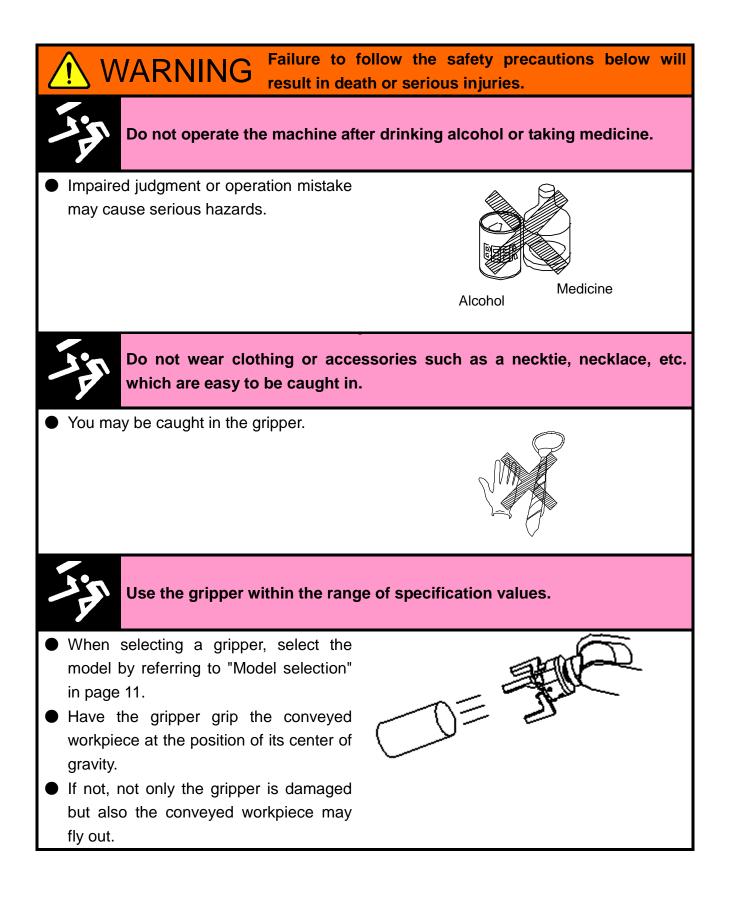
A DANGER Failure to follow the safety precautions below will result in death or serious injuries.



Use the gripper in accordance with the legal safety standards.

 Use the gripper in accordance with the legal safety standards defined by each country, such as installation of safeguards or safety covers.





3. Specifications

3-1. Specification table

(Standard gripping force)

Model				NTS				
MODEI		206	208	210	212	216		
Fluid used	Fluid used			Air pressure				
Operating air pressure (MPa)				0.2 - 0.8				
Ambient temperature (°C) range				5 - 60				
Jaw stroke in diameter	(mm)	12	16	20	24	32		
Cylinder internal volume (reciprocation)	(cm ³)	8.4	18.8	35.1	52.4	123.2		
Repeatability	(mm)	±0.01						
Body mass	(kg)	0.29	0.47	0.77	1.33	2.51		
Ambient humidity range	(%)	30 - 95						
Storage temperature (°C)		-10 - 60						
Noise level	(dB)			79				

*Noise level is measured at a distance of 1m from the gripper in front, rear, left, and right four positions of the gripper.

3-2. Gripping force

1 Standard for selecting a model

Perform the following calculation and select the model that provides a gripping force exceeding the calculation result, though a gripping force varies depending on the shapes of jaws created by the customer and conveyed workpiece or the friction coefficient.

$F=m(g+a)/\mu$

(Example)

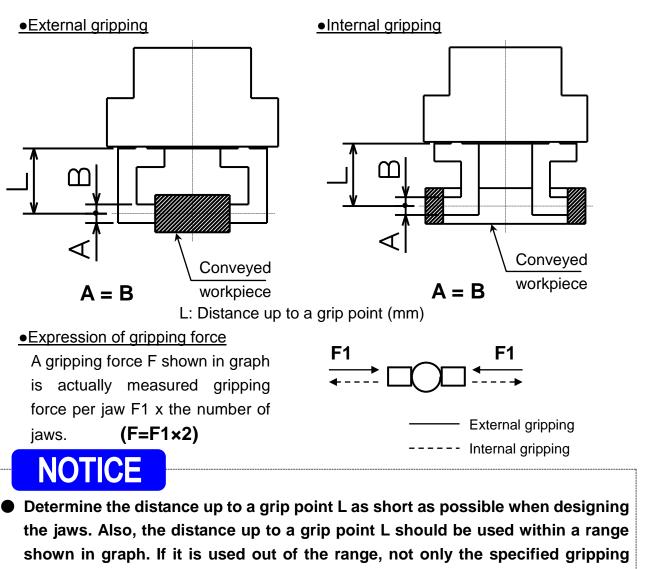
When mass of conveyed workpiece = 8 kg, friction coefficient = 0.1, and robot acceleration = $10m/s^2$: F=8(9.8+10)/0.1=1584(N)

② Gripping force

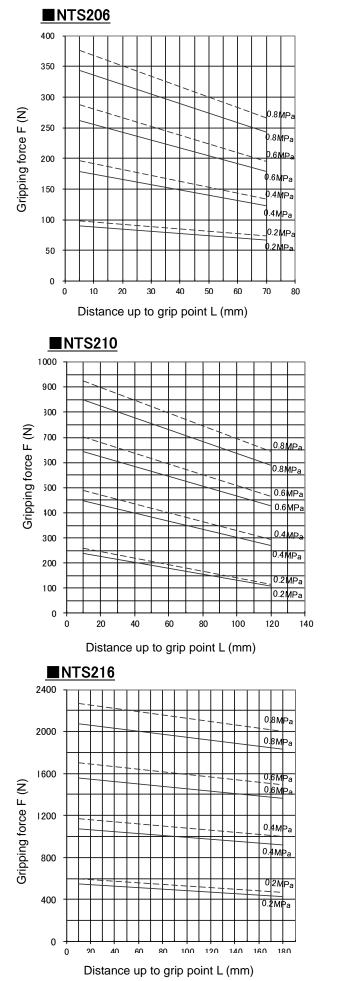
F = Gripping force (N)

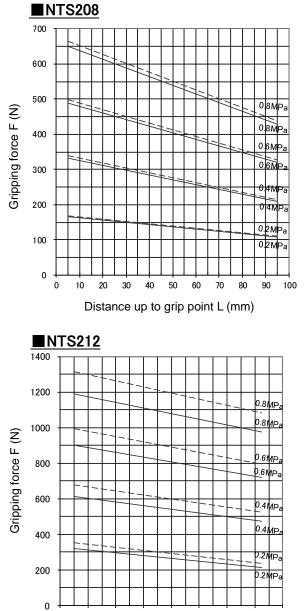
m = Mass of conveyed workpiece (kg)

- g = Gravitational acceleration (m/s²)
- a = Acceleration of robot/loader (m/s^2)
- μ = Friction coefficient of gripping part



force may not be obtained but also the wear of sliding parts may be increased.





Distance up to grip point L (mm)

4.Use

This product supplies pneumatic pressues to the unit to move the jaws in the open or close direction for gripping the conveyed workpiece and transfers the conveyed workpiece up to any location. After transfer, the jaws are moved in the close or open direction for removing the conveyed workpiece.

- Do not modify the gripper. Using the modified product could cause unexpected accidents. Kitagawa shall not be held liable for human accidents, death, damage, or loss that occurred due to the modification.
 - If using the gripper as a workpiece fixture when the workpiece is drilled, deburred, welded, or modified additionally, confirm the specifications. If the gripper is used out of the specifications, not only the gripper is damaged but also the fixed workpiece may fly out.

WARNING

- Wear appropriate clothing suitable for the work and wear gloves, safety glasses, safety shoes, and helmet.
 - Wearing inappropriate clothing causes the clothing to be stuck, resulting in danger.
 - Appropriate clothing will be preventive measures to prevent hazards due to the carelessness or unexpected accidents during work.

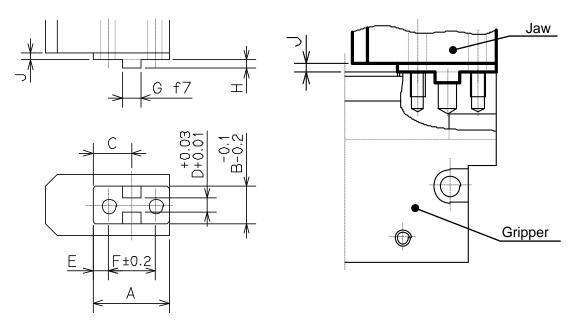
NOTICE

- Do not use the product in the environment of corrosive chemicals, corrosive gas, dust, and vibration, avoiding high temperature or direct sunlight.
- When storing the product, apply antirust treatment and then store it in a place free from water leakage, dew condensation, or freeze.

5. Design of Jaws

5-1. Designing jaws to be installed on the gripper

When designing jaws to be installed on the gripper, form the installation face to the master jaw as shown below.



Model	Α	B	С	D ^(*)	E	F	G ^(*)	H ^(*)	J
NTS 206	20	11	9.5	4	3	13	5	2.5	0.5
NTS 208	23	13.5	11.5	5	3.5	16	6	3	0.5
NTS 210	28.5	18.5	14	6	4	20	8	3.5	0.5
NTS 212	35	19	18	6	6	24	8	4	0.5
NTS 216	46	28.5	23	8	7	32	10	4	0.5

^{*} Dimensions D, G, and H in the table are used for positioning the jaws. Dimension D is used for positioning in the lateral direction, and dimensions G and H are used for positioning in the longitudinal direction.

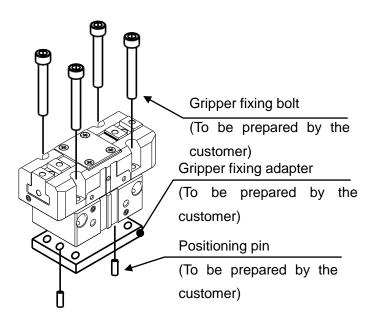
6. Installation

6-1. Installing the gripper

① Front face installation

Install the gripper body using the four fixing bolt holes and the two positioning pin holes or the center fitting portion.

The gripper fixing adapter, gripper fixing bolts, and positioning pins are to be prepared by the customer.



Model NTS		206	208	210	212	216	
Gripper fixing) bolt size		M4	M4	M5	M6	M6
Positioning	Diameter ($_{0}^{+0.025}$)	(mm)	φ4	φ4	φ5	φ6	φ6
pin hole	Depth	(mm)	5.5	6	8	10	10
Fitting portion size (depth)		-	φ20H8 (3.5)		φ20H8 (3.5)		

2 Rear face installation

Install the gripper body using the four fixing bolt holes and two positioning pin holes or the center fitting portion.

The gripper fixing adapter, gripper fixing bolts, and positioning pin are to be prepared by the customer.

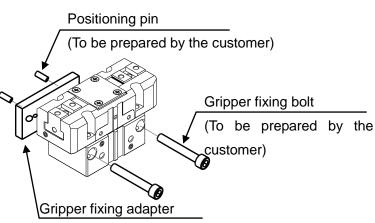
Fixing bolt
(To be prepared by the e
customer)
Positioning pin
(To be prepared by the
customer)
Gripper fixing adapter
(To be prepared by the
customer)

Model		NTS	206	208	210	212	216
Gripper	Size		M5	M5	M6	M8	M8
fixing bolt	Thread depth	(mm)	8	10	12	16	16
Positioning	Diameter $(_0^{+0.025})$	(mm)	<i>ф</i> 4	<i>ф</i> 4	φ5	φ6	ϕ 6
pin hole	Depth	(mm)	5.5	6	8	10	10
Fitting portion size (depth)			-	φ	20H8 (3.	5)	φ20H8 (3.5)

③ <u>Side face installation</u>

Install the gripper body using the two fixing bolt holes and two positioning pin holes.

The gripper fixing adapter, gripper fixing bolts, and positioning pin are to be prepared by the customer.



(To be prepared by the customer)

Model NTS		206	208	210	212	216	
Gripper fixing	g bolt size		M4	M5	M6	M8	M8
Positioning	Diameter ($_{0}^{+0.025}$)	(mm)	φ4	φ4	φ5	φ6	φ6
pin hole	Depth	(mm)	5	6	8	10	10

4 Intermediate face installation

Install the gripper body using the four fixing bolt holes and two positioning pin holes.

The gripper fixing adapter, gripper fixing bolts, and positioning pin are to be prepared by the customer.

Gripper fixing adapter

(To be prepared by the customer)

Positioning pin (To be prepared by the customer)



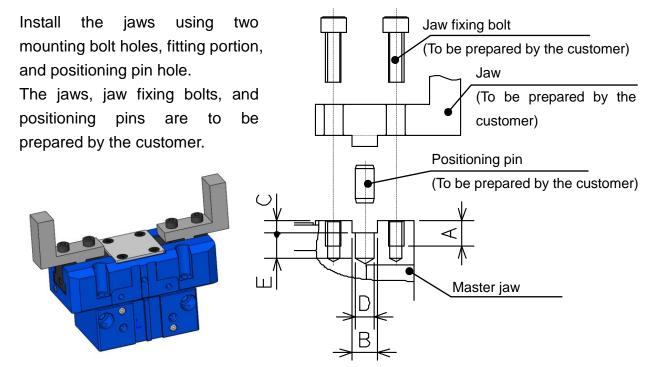
(To be prepared by the

<u> </u>			customer)				
Model		NTS	206	208	210	212	216
Gripper fixing	g bolt size		М3	M5	M6	M8	M8
Positioning I	Diameter ($_0^{+0.025}$)	(mm)	φ4	φ4	φ5	$\phi 6$	φ6
pin hole	Depth	(mm)	5.5	6	8	10	10

▲ DANGER

Be sure to tighten the bolts with the specified torque. Lack of tightening torque or excessive torque could break the bolts, causing the gripper or conveyed workpiece to fly out.

6-2. Installing the jaws



Model		NTS	206	208	210	212	216
Mounting	Size		M4	M4	M5	M6	M8
bolt	Thread depth	A(mm)	6	7	8	9	12
Fitting portion	Width (H8)	B (mm)	5	6	8	8	10
	Depth	C (mm)	3	3.5	4	4.5	4.5
Positioning pin hole	Diameter (H8)	D (mm)	φ4	φ5	φ6	φ6	φ8
	Depth	E (mm)	5	6	8	8	12

ADANGER

- Be sure to tighten the bolts with the specified torque. Lack of tightening torque or excessive torque could break the bolts, causing the jaws or conveyed workpiece to fly out.
- Before installing the jaws, disconnect the air piping.

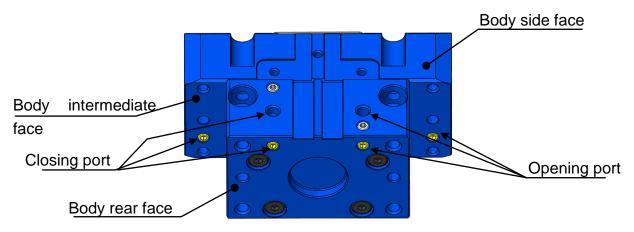
6-3. Connecting the air piping

The air pressure supply ports to open and close the gripper jaws are provided on the side face and rear face of the body.

When using the supply port on the side face of the body, connect the air piping directly.

When using the supply port on the rear face of the body, remove the setscrew, which is attached at the delivery to prevent air leakage, and supply air from the adapter to fix the gripper.

The screws to close the opening/closing ports on the side face of the body are to be prepared by the customer.



Model	NTS	206	208	210	212	216
Port size of body side face		M5	M5	M5	G1/8	G1/8
Port size of body rear face		M3	M4	M4	M5	M5
Port size of body intermediate face		M3	M4	M4	M5	M5

NOTICE

The setscrews in the air pressure supply ports on the body rear face are mounted with adhesive applied to them to prevent air leakage, so it is very difficult to remove them. Therefore, when removing the setscrews, be careful not to damage them.

• After removing the setscrews, take away adhesive fixed to the body screw hole clearly. Be careful not to drip the adhesive into the cylinder.

Be sure to shut off the air pressure before connecting the air piping.

6-4. Installing the switches

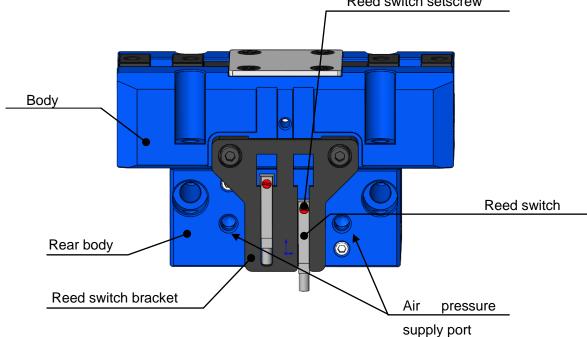
Use reed switches of the following models.

	CKD			SMC		
	Noncontact		t 2-wire system		2-wire system	
Model	F2H	F2V	F2S	D-M9B	D-M9BV	
Lead wire pull-out shape	Straight	L-shaped	L-shaped short	Straight	L-shaped	

* Using reed switches not shown below may lead to unstable response.

① Installing the reed switch

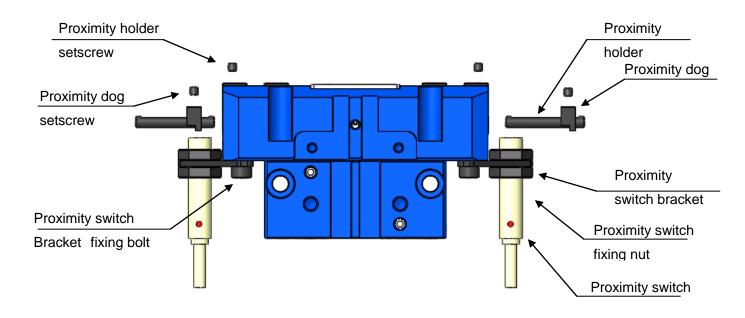
Install the reed switch using the attached reed switch bracket. When using reed switches, please design a adaptor without interference with the reed switches Reed switch setscrew



- Installation procedure for the close end side
- ① Move the master jaws to the close end positions, respectively.
- ② Install the reed switch using the reed switch bracket.
- ③ Move up and down the reed switch slowly.
- (4) Tighten and fix the setscrew provided on the reed switch at the position where the reed switch detected.
- (5) Repeat the opening/closing operation of the master jaws to confirm that the reed switch can detect.

*In the case of workpiece external gripping, make the above-mentioned adjustment with the workpiece gripped.

- Installation procedure for the open end side
- ① Move the master jaws to the open end positions, respectively.
- ② Install the reed switch using the reed switch bracket.
- ③ Move up and down the reed switch slowly.
- (4) Tighten and fix the setscrew provided on the reed switch at the position where the reed switch detected.
- (5) Repeat the opening/closing operation of the master jaws to confirm that the reed switch can detect.



2 Installing the proximity switch

• Installation procedure for the close end side

- ① Move the master jaws to the close end positions, respectively.
- ② Install the proximity switch using the proximity switch bracket.
- ③ Install the proximity holders to the master jaws respectively, and fix them using the setscrews.
- Insert the proximity holders in the proximity dogs, respectively.
 Move the proximity dog to the position where the proximity switch reacts, and fix the dog with the setscrew.

* If the proximity switch does not react, adjust the distance between the proximity switch and the proximity dog.

(5) Repeat the opening/closing operation of the master jaws to confirm that the proximity switch can detect the proximity dog.

- Installation procedure for the open end side
- ① Move the master jaws to the open end positions, respectively.
- ② Install the proximity switch using the proximity switch bracket.
- ③ Install the proximity holders to the master jaws respectively, and fix them using the setscrews.
- ④ Insert the proximity holders in the proximity dogs, respectively.

Move the proximity dog to the position where the proximity switch reacts, and fix the dog with the setscrew.

* If the proximity switch does not react, adjust the distance between the proximity switch and the proximity dog.

- * If the distance between the proximity switch and the proximity dog cannot be adjusted in the stroke direction, change the proximity dog installation direction and adjust the distance.
- (5) Repeat the opening/closing operation of the master jaws to confirm that the proximity switch can detect the proximity dog.

NOTICE

If chips enter between the proximity switch and the proximity dog, it is recommended to install a proximity switch protection cover.

7. Maintenance and Checking

7-1. Periodic checking

- Before work or at the grease supply, move the jaws over full stroke to check that the stroke mentioned in the specification table is obtained.
- At the end of work, be sure to clean the gripper main body using an air gun.
- At least every three months, check that respective bolts have been tightened.

7-2. Maintenance interval

The maintenance interval is 1 million cycles, and disassemble the gripper, and clean, replace the seals, apply grease, and reassemble the gripper.

7-3. Grease

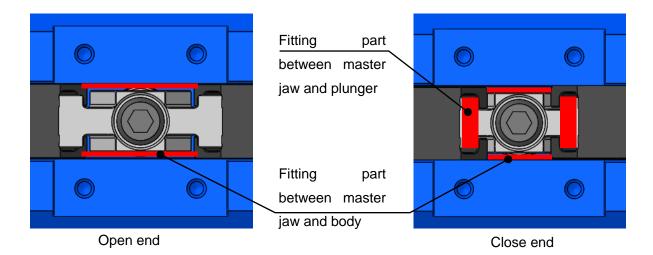
① Grease used

 Be sure to use the specified grease listed below. If unspecified grease is used, adequate effect may not be obtained.

Brand	Manufacturer
Kluberpaste 46 MR 401	Klueber Lubrication: Whole world
CHUCK GREASE PRO	Kitagawa genuine grease (Kitagawa sales agents in each country)

2 Supplying method

- ① Remove the cover (No.4).
- ② Apply grease to the fitting parts between the body (No.1), master jaw (No.5), and plunger (No.3).
- ③ Move the master jaws several strokes without gripping anything to spread the grease.



③ <u>Safety information on grease and antitrust oil</u> Applicable range

- Specified grease
- Antirust agent applied to the product at the delivery

First-aid treatment

- Aspiration: In case of much aspiration, go to a place where there is fresh air, and cover your body with a blanket to keep your body warm. Consult a doctor if necessary.
- Sticking to your skin: Wipe off the oil, and wash your skin with water and soap. If you feel itchy or you get inflamed, consult a doctor immediately.
- Entering your eye: Wash your eye with fresh water for at least 15 minutes, and then consult a doctor.
- Accidental drinking: Consult a doctor immediately without vomiting forcibly.
- For the grease other than the specified one and antirust oil prepared by the customer, refer to the safety information prepared for respective oils.

7-4. Disassembly

Disassembly procedure(NTS206)

By referring to the parts list on page 5, disassemble the product through the procedure below:

- ① Stop the air pressure supplied to the gripper and disconnect the air piping.
- ② Remove the gripper from the robot or the loader.
- ③ Remove the cover fixing bolts (No.201) and the cover (No.4).
- ④ Loosen the rear body fixing bolts (No.208) and remove the rear body (No.2).
- (5) Loosen the piston fixing bolts (No.200) and remove the plunger (No.3) and the master jaws (No.5).

Disassembly procedure(NTS208,NTS210,NTS212,NTS216)

By referring to the parts list on page 6, disassemble the product through the procedure below:

- ① Stop the air pressure supplied to the gripper and disconnect the air piping.
- ② Remove the gripper from the robot or the loader.
- ③ Remove the cover fixing bolts (No.201) and the cover (No.4).
- (4) Loosen the piston fixing bolts (No.200) and remove the plunger (No.3) and the master jaws (No.5).
- (5) Loosen the rear body fixing bolts (No.208) and remove the rear body (No.2).
- 6 Remove the piston (No.6) from the rear body (No.2).

Assembly procedure (NTS206)

By referring to the parts list on page 6, assemble the product through the procedure below:

- ① Insert the master jaws (No.5) in the body (No.1).
- 2 Assemble the master jaws (No.5) and plunger (No.3), and fix the plunger (No.3) and the piston (No.6) with the piston fixing bolt (No.200).
 Note 1: For the piston fixing bolt (No.200) tightening torque, refer to page 8.
 Note 2: The plunger (No.3) and the piston (No.6) have phases, respectively.
 Note 3: piston (No.6) Align the magnet position to the sensor groove.
- ③ Attach the parallel pin (No.206) and O-ring B (No.205) to the rear body (No.2).

- ④ Assemble the body (No.1) and rear body (No.2) using the rear body fixing bolts (No.208).
- (5) Fix the cover (No.4) using the cover fixing bolts (No.201).
- 6 Install the gripper to the robot or the loader.
- \bigcirc Connect the air pressure piping.

Assembly procedure (NTS208,NTS210,NTS212,NTS216)

By referring to the parts list on page 6, assemble the product through the procedure below:

- ① Insert the piston (No.6) in the rear body (No.2). (Align the magnet position to the sensor groove.)
- ② Attach the parallel pin (No.206) and O-ring B (No.205) to the rear body (No.2).
- ③ Assemble the body (No.1) and rear body (No.2) using the rear body fixing bolts (No.208).
- ④ Insert the master jaws (No.5) in the body (No.1).
- (5) Assemble the master jaws (No.5) and plunger (No.3), and fix the plunger (No.3) and the piston (No.6) with the piston fixing bolt (No.200).
 Note 1: For the piston fixing bolt (No.200) tightening torque, refer to page 8.
 Note 2: The plunger (No.3) and the piston (No.6) have phases, respectively.
- 6 Fix the cover (No.4) using the cover fixing bolts (No.201).
- O Install the gripper to the robot or the loader.
- 8 Connect the air pressure piping.

To reassemble the gripper, apply the specified grease to the sliding parts and the oil treatment to the seal sliding parts, and perform the reverse procedure of disassembly while checking that the seals do not protrude or fall.

Oil treatment used

Be sure to use the specified oil treatment shown below.

Brand	Manufacturer
S-10 Oil treatment	Napolex: Japan

ADANGER

Be sure to tighten the bolts with the specified torque. Lack or tightening torque or excessive torque could break the bolts, causing the conveyed workpiece to fly out.

8. Troubleshooting

8-1. Gripper is faulty

Check the following, and take corrective actions.

Symptom	Cause	Corrective actions	
	Gripper internal part is broken	Replace the gripper with a new one.	
		Disassemble, and correct the seized part with an oilstone, or	
	Slideways get seized	replace the gripper with a new one.	
		Check that the air pressure is within the operating pressure	
Gripper does not		range	
operate	The piston does not operate	Check for air leakage	
		Check the piping and solenoid valve, and if normal,	
		disassemble and clean the cylinder	
	The switch is faulty or installed	Check that the switch can detect normally.	
	incorrectly		
Lack of master	Much dust exists in master jaws	Disassemble the gripper, clean it, replace the seals, and	
jaw stroke	Much dust exists in master Jaws	apply grease	
	Low air pressure	Check that the air pressure is within the operating pressure	
		range	
	Air leaks from the seal	Disassemble the gripper, clean it, replace the seals, and	
Low gripping		apply grease	
		Remove the cover and supply grease, and open and close	
	Master jaw movements are not	the master jaws several times without gripping any conveyed	
	smooth	workpiece	
		Disassemble the gripper, clean it, and apply grease	

WARNING

- If the gripper failed due to a seizure or damage, disassemble the gripper following the disassembly procedure. If the gripper is in the state that you cannot disassemble, do not disassemble it forcibly but please contact us or our agents.
- Stop using the gripper immediately if the situations are not improved though corrective actions given in above table were taken. Continuous use of faulty product or part could cause serious human accidents due to flying gripper or conveyed workpiece.
- The gripper must be repaired only by skilled persons who have received the training course. Repair by unskilled persons or persons other than us or our agents could cause serious human accidents.

8-2. Contact address in case of trouble

Please get in touch with our sales agent from which you purchased the gripper or our office of the address given on the back cover when the gripper troubled.

9. Others

9-1. Standards and directives to which the gripper conforms

This product conforms to the following standards and directives:

- Machinery directive:2006/42/EC Annex I
- EN ISO 12100-1:2003+A1:2009
- EN ISO 12100-2:2003+A2:2009

9-2. Disposal of gripper

Dispose of this unit in accordance with the laws and regulations of your country.