

Grippers for take-out robot

With runner verification function

RCH-10 series

RCH-10L Gripper Assy Normal type

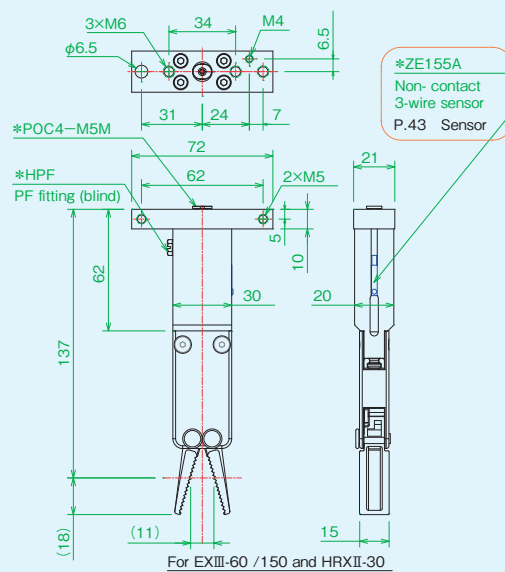


RCH-10LFW Gripper Assy Wide type

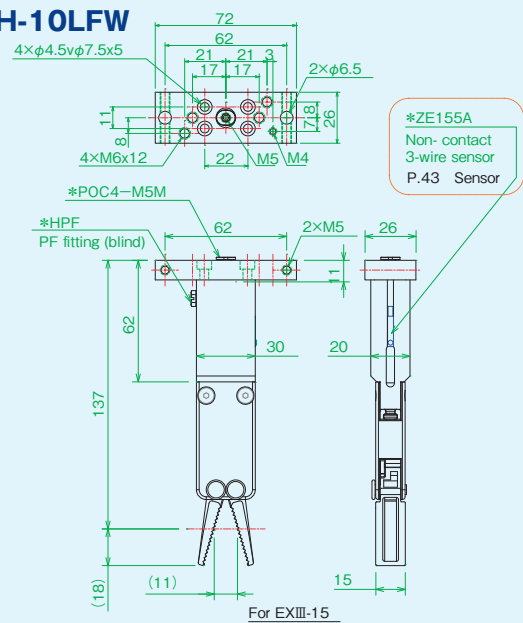


*FW notation indicates that the mounting part is wide type.

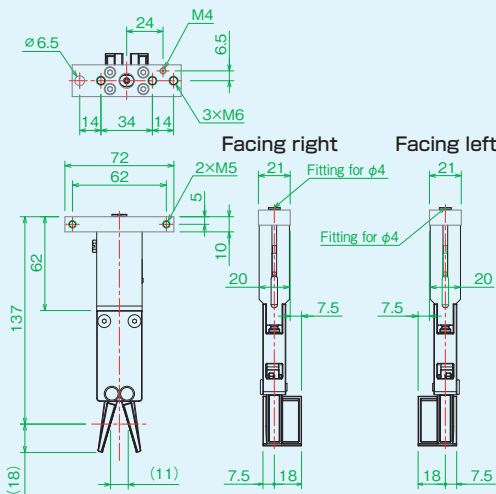
RCH-10L



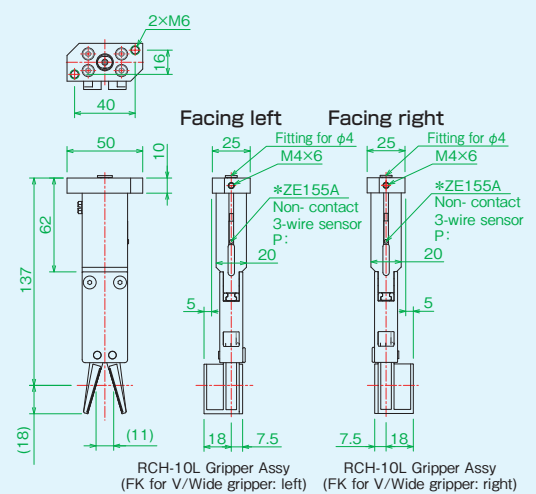
RCH-10LFW



RCH-10LW (wide latch type: right/left)



RCH-10LFW (FK/latch for V, Wide: right/Left)



*To determine whether the wide gripper is facing right or left, look at it with the sensor in front of you.

Code	RCH-10L Gripper Assy (Normal type)	RCH-10LFW Gripper Assy (Wide type)	RCH-10L Gripper Assy (Wide type gripper: right)	RCH-10L Gripper Assy (Wide type gripper: left)	RCH-10L Gripper Assy (FK for V/Wide gripper: right)	RCH-10L Gripper Assy (FK for V/Wide gripper: left)
Part code	*RCH-10L	*RCH-10LFW	*RCH-10LTWR	*RCH-10LTWL	*RCH-10LVTWR	*RCH-10LVTWL
Material	Aluminum					
Gripper material	SCS13					
Fluid	Compressed air					
Operation type	Single action type					
Working pressure range [MPa]	0.24~0.59					
Guaranteed pressure resistance [MPa]	0.7					
Gripping force *1 [N] (at 0.59MPa)	65 *2					
Detectable range [mm]	Φ1.5 - Φ8 (cold)					
Temperature range of use [°C]	0~40					
Fitting size [Tapped]	M5					
Weight [g]	305	322	314		306	

*1. It is the force that grips the sprue/runner, not the force that separates the sprue/runner from the mold.

*2. It is a force when a Φ8 cold resin rod is pinched at 0.59 MPa, and varies depending on conditions.

*Pipe fittings are not equipped. (See p.44 - 45)

Grippers for take-out robot

With runner verificatin function (for sub-arm)

RCH-18 Series

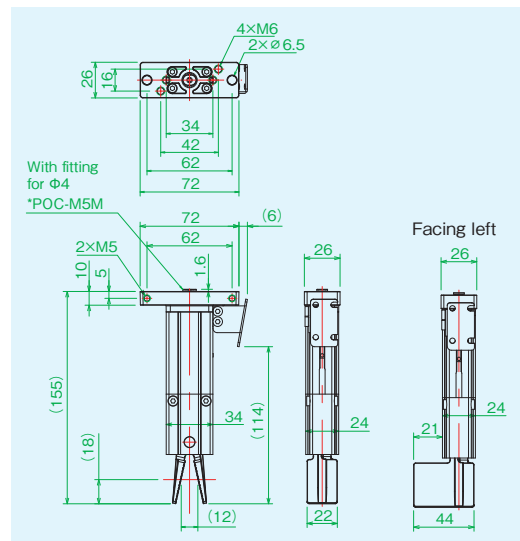
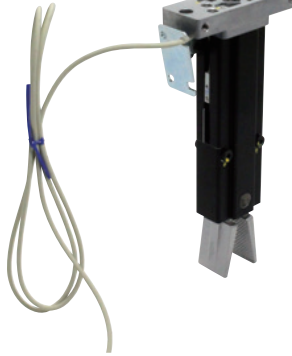
RCH-18 gripper Assy
Fixing block Sensor:
3M (3-pole)



RCH-18 gripper Assy
Fixing block Sensor:
Molex 65



RCH-18 gripper Assy
Fixing block Without
sensor connector



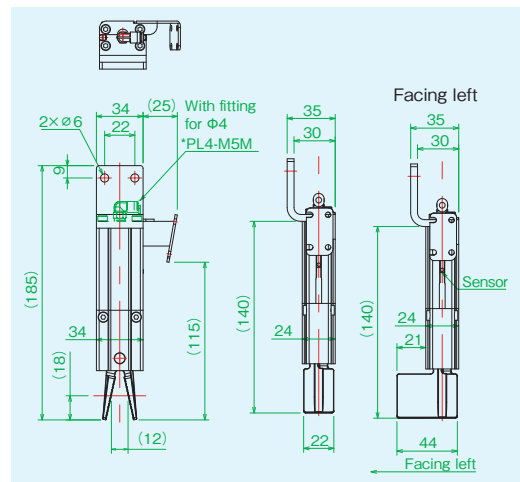
RCH-18 gripper Assy
Fixing plate Sensor:
3M (3-pole)



RCH-18 gripper Assy
Fixing plate Sensor:
Molex 190



RCH-18 gripper Assy
Fixing plate Without
sensor connector



*The definition of right/left facing for the wide type should be determined by looking at the sensor in front of you, and whether the wide claws are facing right or left.

Code	RCH-18
Material	A6063S
Gripper material	SCS13
Fluid	Compressed air
Operation type	Single action type
Working pressure range [MPa]	0.24~0.59
Guaranteed pressure resistance [MPa]	0.7
Gripping force *1 (at 0.59MPa) [N]	118 ※2
Detectable range [mm]	φ2 - φ8 (cold)
Temperature range of use [°C]	0~40
Fitting size [mm]	φ4 (with fitting)

	Product name (RCH-18)	Part code	Weight [g]
Fixing block (standard)	Gripper Assy (sensor: 3M)	*RCH-18B1	317
	Gripper Assy (sensor: Molex 190)	*RCH-18B2	
	Gripper Assy (sensor: Molex 65)	*RCH-18B3	
	Gripper Assy (without sensor connector)	*RCH-18B4	
Fixing block (wide gripper Assy, right)	Wide gripper Assy, right (sensor: 3M)	*RCH-18B1TWR	346
	Wide gripper Assy, right (sensor: Molex 190)	*RCH-18B2TWR	
	Wide gripper Assy, right (sensor: Molex 65)	*RCH-18B3TWR	
	Wide gripper Assy, right (without sensor connector)	*RCH-18B4TWR	
Fixing block (wide gripper Assy, left)	Wide gripper Assy, left (sensor: 3M)	*RCH-18B1TWL	346
	Wide gripper Assy, left (sensor: Molex 190)	*RCH-18B2TWL	
	Wide gripper Assy, left (sensor: Molex 65)	*RCH-18B3TWL	
	Wide gripper Assy, left (without sensor connector)	*RCH-18B4TWL	
Fixing plate (standard)	RCH-18 gripper Assy (fixing plate, sensor: 3M)	*RCH-18P1	317
	Gripper Assy (sensor: Molex 190)	*RCH-18P2	
	Gripper Assy (sensor: Molex 65)	*RCH-18P3	
	Gripper Assy (without sensor connector)	*RCH-18P4	
Fixing plate (wide gripper Assy, right)	Wide gripper Assy, right (sensor: 3M)	*RCH-18P1TWR	346
	Wide gripper Assy, right (sensor: Molex 190)	*RCH-18P2TWR	
	Wide gripper Assy, right (sensor: Molex 65)	*RCH-18P3TWR	
	Wide gripper Assy, right (without sensor connector)	*RCH-18P4TWR	
Fixing plate (wide gripper Assy, left)	Wide gripper Assy, left (sensor: 3M)	*RCH-18P1TWL	346
	Wide gripper Assy, left (sensor: Molex 190)	*RCH-18P2TWL	
	Wide gripper Assy, left (sensor: Molex 65)	*RCH-18P3TWL	
	Wide gripper Assy, left (without sensor connector)	*RCH-18P4TWL	

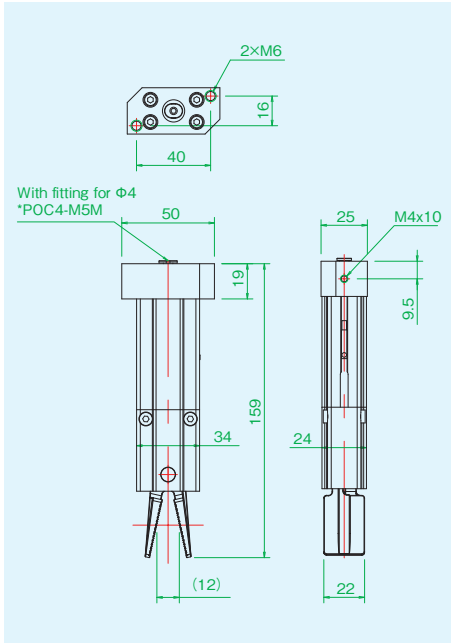
- *1. It is the force that grips the sprue/runner, not the force that separates the sprue/runner from the mold.
- *2. It is a force when a φ8 cold resin rod is pinched at 0.59 MPa, and varies depending on conditions.
- *3. When using with the main arm, use the one with wire mount plug (4-pole, yellow) without sensor connector. (See p.45)

Grippers for take-out robot

With runner verification

RCH-18 Series

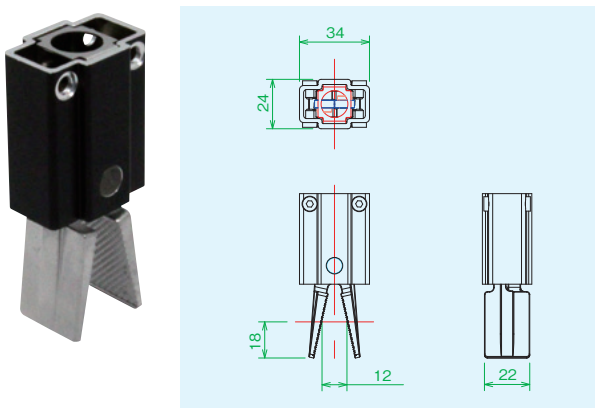
RCH-18 gripper Assy, for V *3/ Without sensor connector



	Standard gripper	Wide gripper, Left
	RCH-18 gripper Assy (for V, no sensor connector)	RCH-18 wide gripper Assy, left (for V, no sensor connector)
Part code	*RCH-18V	*RCH-18VTWL
Material	A6063S	
Gripper material	SCS13	
Fluid	Compressed air	
Operation type	Single action type	
Working pressure range (MPa)	0.24~0.59	
Guaranteed pressure resistance (MPa)	0.7	
Gripping force *1 (at 0.59MPa) (N)	118 ※2	
Detectable range (mm)	Φ2 - Φ8 (cold)	
Temperature range of use (°C)	0~40	
Fitting size (mm)	Φ4 (with fitting)	
Weight (g)	319	348

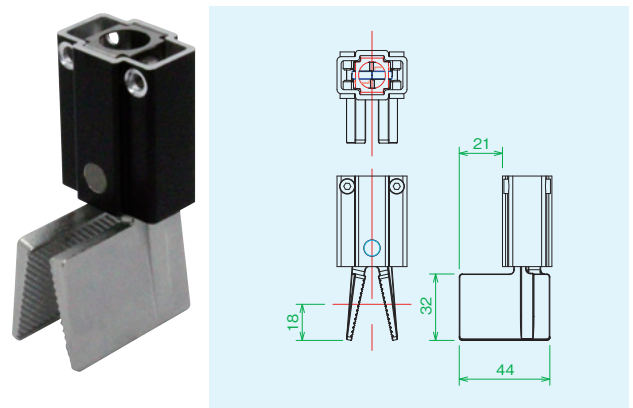
*1. It is the force that grips the sprue/runner, not the force that separates the sprue/runner from the mold.
 *2. It is a force when a Φ8 cold resin rod is pinched at 0.59 MPa, and varies depending on conditions.
 *3. For V: Take-out robot for vertical IMM

Gripper base Assy for RCH-18 (with mounting bolt)



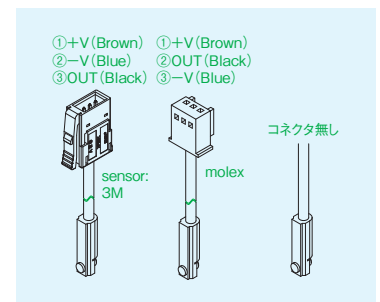
Product name	Gripper base Assy for RCH-18 (with mounting bolt)
Part code	*RCH18-F
Weight (g)	114

Wide gripper base Assy for RCH-18 (with mounting bolt)



Product name	Wide gripper base Assy for RCH-18 (with mounting bolt)
Part code	*RCH18-FTW
Weight (g)	143

Sensor Assy for RCH-18 (3-pole type with connector)



品目名称	Sensor Assy for RCH-18 (3M L250)	Sensor Assy for RCH-18 (Molex L190)	Sensor Assy for RCH-18 (Molex L65)	Contact without, 3-wire
Part code	*RCH18-S3M	*RCH18-SM190	*RCH18-SM65	*ZE155A

Grippers for take-out robot

With runner verification function

RCH-20 Series

RCH-20 gripper Assy
(with connector)



RCH-20 gripper Assy
(with F fixing plate)



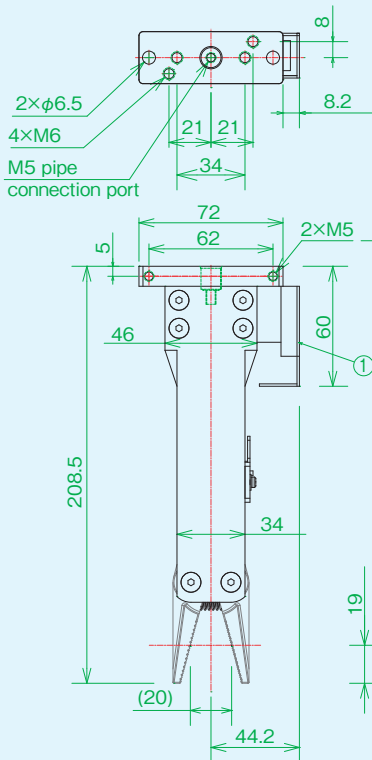
Code	RCH-20 gripper Assy (with connector)	RCH-20 gripper Assy (with F fixing plate)
Part code	171G9100	110D9191
Material	PBT-G10%	
Gripper material	SCS13	
Fluid	Compressed air	
Operation type	Single action type	
Working pressure range [MPa]	0.24~0.59	
Guaranteed pressure resistance [MPa]	0.7	
Gripping force *1 (at 0.59MPa) [N]	345 ※2	
Detectable range	Φ2 - Φ11 (cold)	
Temperature range of use [°C]	0~40	
Fitting size [Tapped]	M5	
Weight [g]	415	410

*1. It is the force that grips the sprue/runner, not the force that separates the sprue/runner from the mold.

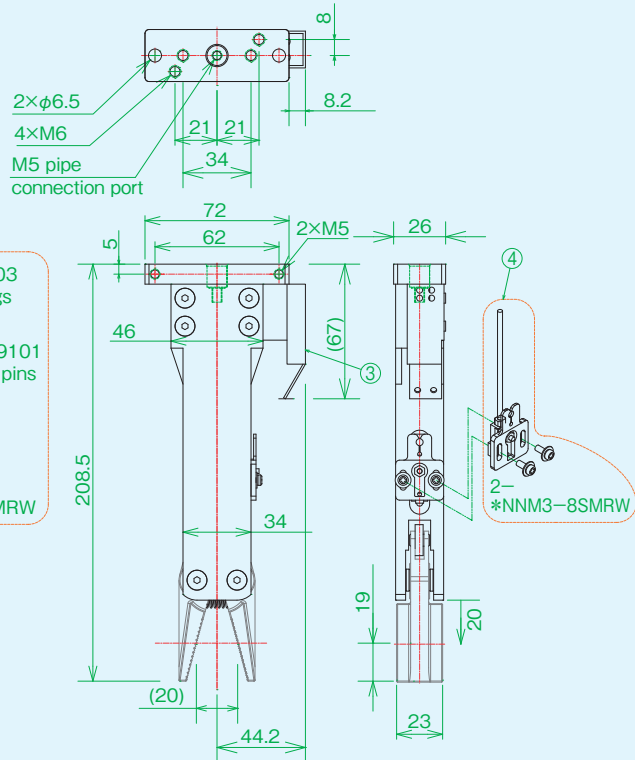
*2. It is a force when a Φ8 cold resin rod is pinched at 0.59 MPa, and varies depending on conditions.

*Pipe fittings are not equipped. (See p.44 - 45)

RCH-20 gripper Assy
with normal connector

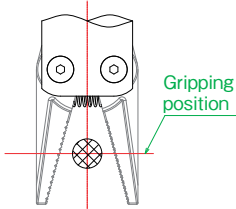


RCH-20 gripper Assy
with normal type F fixing plate



- *51191-03
3P housings
1 pc
- *50802-9101
Connector pins
3 pcs
- 2-
*NNM3-8SMRW

(Detectable range)



Product name	① Finger fixing plate (for RCH-20 connector)	② Sensor type G Assy (L=100)	③ Finger fixing plate (for RCH-20 binding)	④ Gripper proximity set
Part code	130D0341	873E91M1	110D0661	110D9211
Accessories	—	M3×8 Set screw 2 pcs	—	M3×8 Set screw 2 pcs
Weight	33g	9.1g	29g	9g