

14 Encoder Motor Stroke Compatible Controllers Cable Length Type Option I: Incremental
* The Simple
absolute encoder
is also considered
type "I". N:None
P:1m
S:3m
M:5m
X:: Custom
R:: Robot cable 42P: 42 □ size 30: 1/30 14: 14mm P1: PCON FB:Flange bracket RPCON Pulse motor deceleration (7mm per side) SB: Shaft bracket ratio PSEL P3: PMEC * See page Pre-35 for an explanation of the naming convention



Technical References

Controllers
Integrated

Rod
Type

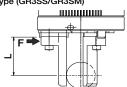
Mini

Standard

Controllers
Integrated

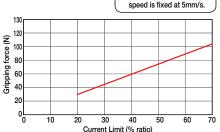
- (1) The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed is twice this value.
- (2) The maximum gripping force is the sum of the gripping forces of all fingers with gripping point distance of 10mm and no overhang distance. For the actual transportable work piece weight, see explanation on the right or page A-74.
- (3) The rated acceleration while moving is 0.3G.

■ Gripping Force vs. Current Limit Slider Type (GR3SS/GR3SM)



Please keep the distance L from the finger mounting surface to the gripping point at less than the following dimensions

GR3SS→50mm or less Please note that, when GR3SM→80mm or less gripping (pushing), the speed is fixed at 5mm/s.



Actuator Specifications

■ Lead and Load Capacity

Model	Deceleration Ratio	Max. Gripping Force (N)	Stroke (mm)
RCP2-GR3SM-I-42P-30-14-①-②-③	30	102	14
Legend: ① Compatible controllers ② Cable length ③ Option	ns		

■ Stroke and Maxi. Opening/Closing Speed

Stroke Deceleration Ratio	14 (mm)
30	50
	(Unit: mm/s)

	Stroke List	
	Stroke (mm)	Standard Price
Г	14	_

② Cable List

Туре	Cable Symbol	Standard Price	
	P (1m)	_	
Standard Type	S (3m)	-	
	M (5m)	-	
	X06 (6m) ~ X10 (10m)	-	
Special Lengths	X11 (11m) ~ X15 (15m)	-	
	X16 (16m) ~ X20 (20m)	-	
Robot Cable	R01 (1m) ~ R03 (3m)	_	
	R04 (4m) ~ R05 (5m)	-	
	R06 (6m) ~ R10 (10m)	_	
	R11 (11m) ~ R15 (15m)	_	
	R16 (16m) ~ R20 (20m)	_	

^{*} See page A-39 for cables for maintenance.

Controllers
PMEC /AMEC
PSEP /ASEP
ROBO NET
ERC2
PCON
ACON
SCON
PSEL
ASEL

③ Option List			
Name	Option Code	See Page	Standard Price
Flange bracket	FB	→ A-26	-
Shaft bracket	SB	→ A-36	_

Actuator Specification	ons		
Item	Description		
Drive System	Worm gear + worm wheel gear		
Positioning Repeatability	±0.01mm		
Backlash	0.3mm or less per side (constantly pressed out by a spring)		
Lost Motion	0.1mm or less per side		
Guide	Cross roller guide		
Allowable Static Load Moment	Ma: 6.3 N·m Mb: 6.3 N·m Mc: 5.7 N·m		
Weight	1.2kg		
Ambient Operating Temp /Humidity	0~40°C 85% RH or less (non-condensing)		

RCP2-GR3SM

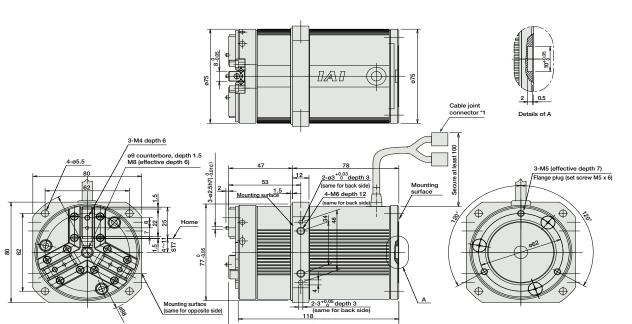


For Special Orders



When homing, the actuator swings 0.5mm past the home position before returning. Therefore, please watch for any interference with the surrounding objects. The motor-encoder cable is connected here. See page A-39 for

details on cables.



Weight (kg) 1.2

The RCP2 serie	s actuators car	operate with the co	ntrollers below. Select the controller ac	ccording to your usa	ge.				
Name		Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page	
Solenoid Valve Type		PMEC-C-42PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477	
solelioid valve type		PSEP-C-42PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points			-	- → P487	
Splash-Proof Solenoid Valve Type		PSEP-CW-42PI-NP-2-0	No homing necessary with simple absolute type.				-		
Positioner Type	-	PCON-C-42PI-NP-2-0	Positioning is possible for up to 512 points	512 points			-		
Safety-Compliant Positioner Type		PCON-CG-42PI-NP-2-0	Positioning is possible for up to 512 points				-		
Pulse Train Input Type Differential Line Driver)		ei e	PCON-PL-42PI-NP-2-0	Pulse train input type with differential line driver support	(-)	DC24V	2A max.	-	→ P525
Pulse Train Input Type (Open Collector)		PCON-PO-42PI-NP-2-0	Pulse train input type with open collector support	(-)			-		
Serial Communication Type		PCON-SE-42PI-N-0-0	Dedicated to serial communication	64 points			-		
Field Network Type		RPCON-42P	Dedicated to field network	768 points			_	→ P503	
Program Control Type	Ø.	PSEL-C-1-42PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes				-	→ P557	

IAI

RCP2-GR3SM **350**



PMEC AMEC PSEP ASEP ASEP ASEP ASEP ASED ACON SCON PSEL ASEL SSEL