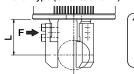




Technical References

- (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-77.
- (3) The rated acceleration while moving is 0.3G.

■ Gripping Force vs. Current Limit Lever Type (GR3LS/GR3LM)



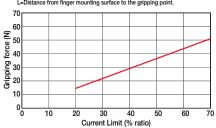
Please note that. when gripping (pushing), the speed is fixed at 5 degrees/s.

The values in the graph below are gripping forces at 10mm gripping point. The actual gripping force decreases inversely proportional to the distance from the opening/closing point.

You can calculate the actual gripping force by the following equation.

Actual gripping force (type S)=P×24/(L+14) Actual gripping force (type M)=P×28.5/(L+18.5)

P=Gripping force on graph L=Distance from finger mounting surface to the gripping point.



Controllers
Integrated

Rod
Type

Mini

Standard

Controllers
Integrated

Actuator Specifications

Lead and Load Capacity					
Model	Deceleration	Max. Gripping	Stroke		
model	Ratio	Force (N) (deg)			
RCP2-GR3LM-I-42P-30-19-10-2-3	30	51	19		

■ Stroke and Maxi. Opening/Closing Speed 19 (deg) 30 200 (Unit: degrees/s)

Stroke List	
Stroke (deg)	Standard Price
10	<u>-</u>

Legend: ① Compatible controllers ② Cable length ③ Options

② Cable List

Туре	Cable Symbol	Standard Price
	P (1m)	_
Standard Type	S (3m)	-
	M (5m)	-
Special Lengths	X06 (6m) ~ X10 (10m)	-
	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.

Pulse Motor

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	±0.01 degrees
Backlash	1 degree or less per side (constantly pressed out by a spring)
Lost Motion	0.15 degrees or less per side
Weight	1.1kg
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)

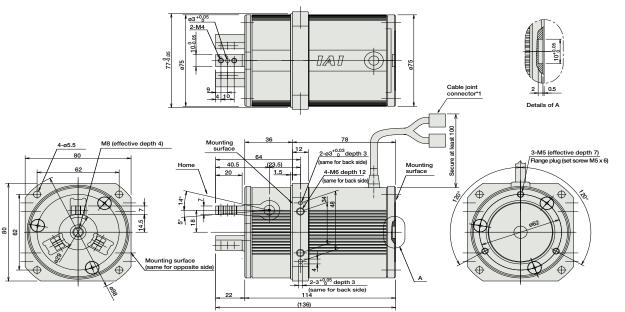


For Special Orders



- When homing, the actuator swings 1 degree 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) 1.1

			ntrollers below. Select the controller ac	<u> </u>					
Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page	
Solenoid Valve Type	110	PMEC-C-42PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477	
ololola vare type	1	PSEP-C-42PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points	3 points			-	→ P487
Splash-Proof Solenoid Valve Type	I	PSEP-CW-42PI-NP-2-0	No homing necessary with simple absolute type.					-	77407
Positioner Type		PCON-C-42PI-NP-2-0	-0 Positioning is possible for up to 512 points 512 points			-			
Safety-Compliant Positioner Type		PCON-CG-42PI-NP-2-0	Tostorning is possible for up to 312 points	512 points			-		
ulse Train Input Type lifferential Line Driver)	Ó	PCON-PL-42PI-NP-2-0 Pulse train input type with differential line driver support (-)	()	DC24V	2A max.	-	→ P525		
ulse Train Input Type (Open Collector)			PCON-PO-42PI-NP-2-0	Pulse train input type with open collector support	(-)			-	
Serial ommunication Type	ĺ	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	E	PSEL-C-1-42PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P557	

IAI

RCP2-GR3LM **346**



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