* See page Pre-35 for an explanation of the naming convention.



Ontrollers
Integrated

Rod
Type

Mini

Standard

Controllers
Integrated

Table/Arm
//Flat Type

Mini

Standard

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

ROBO Cylinder Mini Table Type Side-Mounted Motor 36mm Width Pulse Motor Ball Screw **20P** RCP3-TA3R Encoder Motor Compatible Contro Cable Length Туре Stroke Option I: Incremental * The simple absolute encoder is also considered type "I". See Options below * Be sure to specify which side the motor is to be 20P: Pulse motor 6: 6mm 20: 20mm P1: PCON N : None RPCON 20 size 4: 4mm P:1m 2: 2mm 100: 100mm PSEL



Pictured: Left-mounted motor model (ML).

Technical References

(1) The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 2mm-lead 0.3G (0.2G for 2mm lead) is the upper limit of the acceleration.

■ Speed vs. Load Capacity

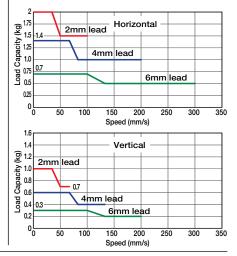
M:5m

P3: PMEC

(10mm pitch

Due to the characteristics of the Pulse motor, the RCP3 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.

mounted (ML/MR).



Actuator Specifications							
■ Lead and Load Capacity		(Note 1) Pleas	se note that the	maximum load		eases as the sp	eed increases.
M	Feed	Lead	Max. Load Cap	pacity (Note 1)	Maximum	Positioning	Stroke
Model	Screw	(mm)	Horizontal (kg)	Vertical (kg)	(Note 2)	Repeatability (mm)	(mm)
RCP3-TA3R-I-20P-6-1 - 2 - 3 - 4		6	~ 0.7	~ 0.3	9		
	.						20~100
RCP3-TA3R-I-20P-4-1 2-3-4	Ball Screw	4	~ 1.4	\sim 0.6	14	±0.02	(10mm
RCP3-TA3R-I-20P-2-①-②-③-④		2	~ 2	~1	28		increments)
Legend (1) Stroke (2) Compatible controller (3) Ca	ble length	4 Opti	ons	(Note 2) S	See page A-66	for pushing	force graphs.

	Stroke and Maximum Speed						
	Stroke	20 ~ 100					
Lead		(mm)					
No.	6	300 <200>					
Ball Screw	4	200 <133>					
Ba	2	100 <67>					
* The v	alues enclosed	in "< >" apply to vertical usage. (Unit: mm/s					

① Stroke List

Stroke (mm)	Standard Price
20	-
30	-
40	-
50	-
60	-
70	-
80	-
90	-
100	_

Legend ① Stroke ② Compatible controller ③ Cable length ④ Options

③ Cable List

Туре	Cable Symbol	Standard Price	
Standard	P (1m)	-	
	S (3m)	-	
(Robot Cables)	M (5m)	_	
	X06 (6m) ~ X10 (10m)	-	
Special Lengths	X11 (11m) ~ X15 (15m)	-	
	X16 (16m) ~ X20 (20m)	_	

- * The RCP3 comes standard with a robot cable.
- * See page A-39 for cables for maintenance.

④ Option List

Name	Option Code	See Page	Standard Price
Brake	В	→ A-25	-
Left-Mounted Motor (Standard)	ML	→ A-33	-
Right-Mounted Motor	MR	→ A-33	-
Reversed-home	NM	→ A-33	-

Actuator Specifications	
Item	Description
Drive System	Ball screw ø6mm C10 grade
Lost Motion	0.1mm or less
Base	Material: Aluminum (white alumite treated)
Allowable Dynamic Moment (Note 3)	Ma: 3.2 N·m Mb: 4.6 N·m Mc: 5.1 N·m
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)

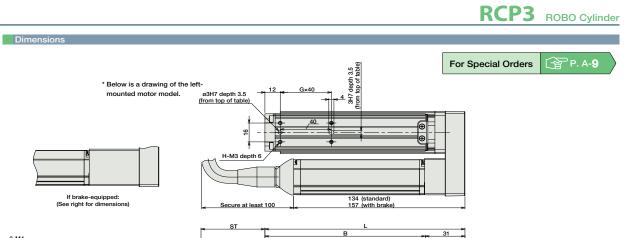
(Note 3) Based on a 5,000km service life.

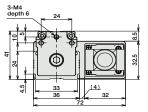
Directions of Allowable Load Moments



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Ш tween reamer a oblong holes) J-M3 depth 5 0 <u>o</u> 0

0

0

The offset reference position of the moment is the same as TA3C (P270).

- *1 The motor-encoder cable is connected directly to the motor cover of the actuator. See page A-39 for details on cables.
- When homing, the slider moves to the mechanical end; therefore, please watch for any interference with the surrounding objects.

ill increase the actuator's weight by 0.1kg.

Stroke	20	30	40	50	60	70	80	90	100
L	126.5	136.5	146.5	156.5	166.5	176.5	186.5	196.5	206.5
Α	87.5	97.5	107.5	117.5	127.5	137.5	147.5	157.5	167.5
В	95.5	105.5	115.5	125.5	135.5	145.5	155.5	165.5	175.5
D	91	101	111	121	131	141	151	161	171
E	1	1	1	1	2	2	2	2	2
F	28.5	38.5	48.5	58.5	18.5	28.5	38.5	48.5	58.5
G	1	1	1	1	2	2	2	2	2
Н	4	4	4	4	6	6	6	6	6
J	6	6	6	6	8	8	8	8	8
Weight (kg)	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7

② Compatible Controllers

ø3H7 depth 3.5 (from bottom of base)

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page	
Solenoid Valve Type	113	PMEC-C-20PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477	
Soleliold valve Type	1	PSEP-C-20PI-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-20PI-NP-2-0	No homing necessary with simple absolute type.				_	→ P487	
Positioner Type	£	PCON-C-20PI-NP-2-0	Positioning is possible for up to 512 points	512 points (→) 64 points	512 points			_	
Safety-Compliant Positioner Type		PCON-CG-20PI-NP-2-0	r consuming to peccepte for up to one pointe				-		
Pulse Train Input Type (Differential Line Driver)	e e	PCON-PL-20PI-NP-2-0	Pulse train input type with different line driver support			DC24V	2A max.	_	→ P525
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-NP-2-0	Pulse train input type with open collector support					_	
Serial Communication Type	Ĩ	PCON-SE-20PI-N-0-0	Dedicated to serial communication				_		
Field Network Type		RPCON-20P	Dedicated to field network	768 points			_	→ P503	
Program Control Type	<u> </u>	PSEL-C-1-20PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P557	

* This is for the single-axis PSEL. * \odot is a placeholder for the power supply voltage (1: 100V, 2: 100 \sim 240V).

IAI

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Controllers

PMEC
/AMEC
/PSEP
/ASEP
/ASEP