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GB

# A high-force gripper series offering much greater gripping force and moment rigidity is now available!

The full lineup includes models of various sizes from small to large.





### Features

### **Greater gripping force**

The maximum gripping force is 200 N (~45lb), meaning that even heavy work parts can be gripped without fail. It is also possible to adjust the gripping force for each work part, so difficult-to-handle work parts such as those that deform easily are also supported.



### Longer stroke

Long strokes of up to 40 mm (20 mm per side) are supported, so work parts of different sizes can also be handled.



### **Higher rigidity**

Moment rigidity is achieved using internal ball guides. Large work parts can be supported.



### **Cable exit direction (optional)**

The cables can exit to one of four directions including top, bottom, left and right.



Exit to top side Exit to right side

CJL Exit to left side

CJB Exit to bottom side

| Gripper Lineup                               |        |                        |                     |                           |                      | NEW                             | NEW                            |
|--|--------|------------------------|---------------------|---------------------------|----------------------|---------------------------------|--------------------------------|
| Name   |        | Smallest<br>slide type | Small<br>slide type | Small<br>long-stroke type | Medium<br>slide type | Medium high-force<br>slide type | Large high-force<br>slide type |
| Model number                                 |        | GRSS                   | GRS                 | GRST                      | GRM                  | GRHM                            | GRHB                           |
| External View                                |        |                        | Surger State        |                           | E                    |                                 |                                |
| Opening/closing stroke (total of both sides) |        | 8mm                    | 10mm                | 100mm                     | 14mm                 | 32mm                            | 40mm                           |
| Maximum gripping force (N)                   |        | 14                     | 21                  | 20/40                     | 80                   | 125                             | 200                            |
| Maximum opening/closing speed                | (mm/s) | 78                     | 33.3                | 75/34                     | 36.7                 | 100                             | 100                            |
|  | Ma     | 0.5                    | 6.3                 | 2.93                      | 6.3                  | 11.7                            | 15.7                           |
| Allowable static load moment<br>(N•m)        | Mb     | 0.5                    | 6.3                 | 2.93                      | 6.3                  | 16.7                            | 26.4                           |
| ()   | Mc     | 1.5                    | 7                   | 5                         | 8.3                  | 46.5                            | 59.8                           |
|  | W      | 42                     | 69                  | 190                       | 74                   | 116                             | 131                            |
| External dimensions (mm)                     | Н      | 24                     | 30                  | 33                        | 36                   | 44                              | 50                             |
|  | D      | 71                     | 71                  | 53.5                      | 79                   | 105                             | 118                            |
| Mass (kg)                                    |        | 0.2                    | 0.36                | 0.66                      | 0.5                  | 1.14                            | 1.5                            |





H

Mb



|   | Actuator Specifications   |                       |                            |                   |                              |           |
|---|---|-----------------------|----------------------------|-------------------|------------------------------|-----------|
|   | ■ Lead and Load Capacity ■ Stroke and Maxi. Opening/Closing Speed   |                       |                            |                   |                              |           |
|   | Model   | Deceleration<br>Ratio | Max. Gripping<br>Force (N) | Stroke<br>(mm)    | Stroke<br>Deceleration Ratio | 8<br>(mm) |
|   | RCP2-GRSS-I-20P-30-8-①-②-③  | 30                    | 14                         | 8<br>(4 per side) | 30                           | 78        |
| L | Legend: ①Compatible controllers ②Cable length ③Options (Unit: mm/s) |                       |                            |                   |                              |           |

| Stroke List    |                |
|----------------|----------------|
| Stroke<br>(mm) | Standard Price |
| 8              | -              |

|      | ② Cable Lis                     | t   |                |
|------|---------------------------------|---|----------------|
| Туре |                                 | Cable Symbol  | Standard Price |
|      | Standard Type<br>(Robot Cables) | P (1m)<br>S (3m)  |                |
|      |                                 | M (5m)  | -              |
|      | Special Lengths                 | <b>XU6</b> (6m) ~ <b>X10</b> (10m)<br><b>X11</b> (11m) ~ <b>X15</b> (15m) | -              |
|      | -                               | X16 (16m) ~ X20 (20m)   | _              |

\* The standard cable is the motor-encoder integrated robot cable.

\* See page A-39 for cables for maintenance.

| ③ Option List  |             |          |                |
|----------------|-------------|----------|----------------|
| Name           | Option Code | See Page | Standard Price |
| Reversed-home  | NM          | → A-33   | -              |
| Flange bracket | FB          | → A-26   | _              |
| Shaft bracket  | SB          | → A-36   | -              |

## Actuator Specifications

| Item                             | Description   |  |  |  |  |
|----------------------------------|---|--|--|--|--|
| Drive System                     | Worm gear + helical gear + helical rack                     |  |  |  |  |
| Positioning Repeatability        | ±0.01mm   |  |  |  |  |
| Backlash                         | 0.2mm or less per side (constantly pressed out by a spring) |  |  |  |  |
| Lost Motion                      | 0.05mm or less per side                                     |  |  |  |  |
| Guide                            | Linear guide  |  |  |  |  |
| Allowable Static Load Moment     | Ma: 0.5 N·m Mb: 0.5 N·m Mc: 1.5 N·m                         |  |  |  |  |
| Weight                           | 0.2kg   |  |  |  |  |
| Ambient Operating Temp./Humidity | 0~40°C, 85% RH or less (non-condensing)                     |  |  |  |  |

333 RCP2-GRSS



Weight (kg) 0.2

| 1 Compati  | ① Compatible Controllers |                      |   |                         |               |                       |                |                |
|--|--------------------------|----------------------|---|-------------------------|---------------|-----------------------|----------------|----------------|
| The RCP2 series actuators can operate with the controllers below. Select the controller according to your usage. |                          |                      |   |                         |               |                       |                |                |
| Name   | External View            | Model                | Description   | Max. Positioning Points | Input Voltage | Power Supply Capacity | Standard Price | See Page       |
| Selensid Velue Ture  | 11-1                     | PMEC-C-20PI-NP-2-①   | C-C-20PI-NP-2-① Easy-to-use controller, even for beginners AC100V P48<br>AC200V See | P481<br>See             | -             | ightarrow P477        |                |                |
| Solenoid Valve lype -  |                          | PSEP-C-20PI-NP-2-0   | Operable with same signal as solenoid valve.  | 3 points                |               |                       | -              | D497           |
| Splash-Proof<br>Solenoid Valve Type  | 1                        | PSEP-CW-20PI-NP-2-0  | No homing necessary with simple absolute type.                                      |                         |               |                       | -              | → <b>F40</b> 7 |
| Positioner Type  | Ĩ                        | PCON-C-20PI-NP-2-0   | Besitioning is possible for up to 512 points  | 512 points              | DC24V         | 2A max.               | -              |                |
| Safety-Compliant<br>Positioner Type  |                          | PCON-CG-20PI-NP-2-0  | Positioning is possible for up to 512 points  | 512 points              |               |                       | -              |                |
| Pulse Train Input Type<br>(Differential Line Driver)   | đ                        | PCON-PL-20PI-NP-2-0  | Pulse train input type with<br>differential line driver support                     |                         |               |                       | -              | ightarrow P525 |
| Pulse Train Input Type<br>(Open Collector)   |                          | PCON-PO-20PI-NP-2-0  | II-NP-2-0 Pulse train input type with<br>open collector support                     |                         |               | -                     |                |                |
| Serial<br>Communication Type   |                          | PCON-SE-20PI-N-0-0   | Dedicated to communication  | 64 points               | 64 points     |                       | -              |                |
| Field Network Type   |                          | RPCON-20P            | Dedicated to field network  | 768 points              |               |                       | -              | ightarrow P503 |
| Program Control<br>Type  |                          | PSEL-C-1-20PI-NP-2-0 | Programmed operation is possible<br>Operation is possible on up to 2 axes           | 1500 points             |               |                       | -              | ightarrow P557 |

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







| Actuator Specifications                               |                       |                            |                    |                              |                             |
|---|-----------------------|----------------------------|--------------------|------------------------------|-----------------------------|
| Lead and Load Capacity                                |                       |                            |                    | Stroke and I                 | Maxi. Opening/Closing Speed |
| Model   | Deceleration<br>Ratio | Max. Gripping<br>Force (N) | Stroke<br>(mm)     | Stroke<br>Deceleration Ratio | 10<br>(mm)                  |
| RCP2-GRS-I-20P-1-10-①-②-③                             | 1                     | 21                         | 10<br>(5 per side) | 1                            | 33.3                        |
| Legend: ①Compatible controllers ②Cable length ③Option | ns                    |                            |                    |                              | (Unit: mm/s                 |

| Stroke List    |                |
|----------------|----------------|
| Stroke<br>(mm) | Standard Price |
| 10             | _              |

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

\* See page A-39 for cables for maintenance.

| ③ Option List  |             |                |                |
|----------------|-------------|----------------|----------------|
| Name           | Option Code | See Page       | Standard Price |
| Flange bracket | FB          | ightarrow A-26 | -              |
| Shaft bracket  | SB          | → <b>A-36</b>  | _              |

## Actuator Specifications

| Item                             | Description  |  |  |  |  |
|----------------------------------|--|--|--|--|--|
| Drive System                     | Timing belt + trapezoidal screw (1.5 lead)                   |  |  |  |  |
| Positioning Repeatability        | ±0.01mm  |  |  |  |  |
| Backlash                         | 0.15mm 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: 7.0 N·m                          |  |  |  |  |
| Weight                           | 0.36kg   |  |  |  |  |
| Ambient Operating Temp./Humidity | 0~40°C. 85% RH or less (non-condensing)                      |  |  |  |  |



Standard

ontrollers ntegrated

ripper/ otary Type

PMEC /AMEC

PSEP (ASEP ROBO NET ERC2 PCON ACON SCON PSEL SSEL

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



64 points

768 points

1500 points

Dedicated to serial communication

Dedicated to field network

Programmed operation is possible

Operation is possible on up to 2 axes

Serial

Communication Type

Field Network Type

Program Control

Type

PCON-SE-20PI-N-0-0

PSEL-C-1-20PI-NP-2-0

RPCON-20P

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 $\rightarrow$  P503

→ P557



| Actuator Specifications   |                       |                            |                |                              |                             |
|---|-----------------------|----------------------------|----------------|------------------------------|-----------------------------|
| Lead and Load Capacity  |                       |                            |                | Stroke and I                 | Maxi. Opening/Closing Speed |
| Model   | Deceleration<br>Ratio | Max. Gripping<br>Force (N) | Stroke<br>(mm) | Stroke<br>Deceleration Ratio | 14<br>(mm)                  |
| RCP2-GRM-I-28P-1-14-①-②-③   | 1                     | 80                         | 14             | 1                            | 36.7                        |
| Legend: ①Compatible controllers ②Cable length ③Options (Unit: mm/s) |                       |                            |                |                              |                             |

| Stroke List |  |
|-------------|--|
|             |  |

| Stroke<br>(mm) | Standard Price |
|----------------|----------------|
| 14             | -              |

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

\* See page A-39 for cables for maintenance.

| ③ Option List  |             |               |                |
|----------------|-------------|---------------|----------------|
| Name           | Option Code | See Page      | Standard Price |
| Flange bracket | FB          | → <b>A-26</b> | -              |
| Shaft bracket  | SB          | → <b>A-36</b> | -              |

## Actuator Specifications

| Item                             | Description  |  |  |
|----------------------------------|--|--|--|
| Drive System                     | Timing belt + trapezoidal screw (1.5 lead)                   |  |  |
| Positioning Repeatability        | ±0.01mm  |  |  |
| Backlash                         | 0.15mm 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: 8.3 N·m                          |  |  |
| Weight                           | 0.5kg  |  |  |
| Ambient Operating Temp./Humidity | 0~40°C, 85% RH or less (non-condensing)                      |  |  |

Pulse Mot

339 RCP2-GRM



Standard

ontrollers ntegrated

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

DC24V

(-)

64 points

768 points

1500 points

2A max.



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 $\rightarrow$  P525

ightarrow P503

→ P557



Pulse train input type with

differential line driver support

Pulse train input type with

open collector support

Dedicated to serial communication

Dedicated to field network

Programmed operation is possible

Operation is possible on up to 2 axes

PCON-PL-28PI-NP-2-0

PCON-PO-28PI-NP-2-0

PCON-SE-28PI-N-0-0

PSEL-C-1-28PI-NP-2-0

RPCON-28P

Pulse Train Input Type

(Differential Line Driver)

Pulse Train Input Type (Open Collector)

Serial

Communication Type

Field Network Type

Program Control

Туре

Í



Actuator Specifications Lead and Load Capacity

The maximum gripping force is the sum of the gripping forces of both fingers, at a gripping point where there is no offset or overhang distance. The work piece weight that can be actually moved depends on the friction coefficient between the gripper fingers and the work piece, as well as on the shape of the work pieces. As a rough guide, a work piece's weight should not exceed 1/10 to 1/20 of the gripping force. (See page A-74 for details.) (3) The rated acceleration while moving is 0.3G

Deceleration

Ratio

1

2

Max. Gripping

Force (N)

20

40



(Unit: mm/s)

| ① Stroke Lis   | st             |
|----------------|----------------|
| Stroke<br>(mm) | Standard Price |
| 40             | -              |
| 60             | -              |
| 80             | -              |
| 100            | -              |

Legend: ①Stroke ②Compatible controller ③Cable length ④Options

Model

RCP2-GRST-I-20P-1-1-2-3-4

RCP2-GRST-I-20P-2-1-2-3-4

|  | ③ Cable List                    |                                     |                |  |  |
|--|---------------------------------|-------------------------------------|----------------|--|--|
|  |                                 |                                     |                |  |  |
|  | Туре                            | Cable Symbol                        | Standard Price |  |  |
|  | Standard Type<br>(Robot Cables) | P (1m)                              | -              |  |  |
|  |                                 | <b>S</b> (3m)                       | -              |  |  |
|  |                                 | <b>M</b> (5m)                       | -              |  |  |
|  | Special Lengths                 | X06 (6m) $\sim$ X10 (10m)           | -              |  |  |
|  |                                 | X11 (11m) $\sim$ X15 (15m)          | -              |  |  |
|  |                                 | <b>X16</b> (16m) ~ <b>X20</b> (20m) | -              |  |  |

\* The standard cable is the motor-encoder integrated robot cable.

\* See page A-39 for cables for maintenance.

#### ④ Option List Name Option Code See Page Standard Price Reversed-home NM → A-33 Cable exiting from bottom A0 → A-25 Cable exiting from the side A1 → A-25

\*Be sure to specify the side from which you want the cable to exit (A0 or A1).

#### Actuator Specifications

| Description                                  |  |  |
|--|--|--|
| Timing belt + worm/rack gear                 |  |  |
| ±0.01mm                                      |  |  |
| 0.2mm or less per side                       |  |  |
| -  |  |  |
| Linear guide                                 |  |  |
| Ma: 2.93 N·m Mb: 2.93 N·m Mc: 5.0 N·m        |  |  |
| 0.51kg(40-stroke) $\sim$ 0.66kg (100-stroke) |  |  |
| 0~40°C, 85% RH or less (non-condensing)      |  |  |
|  |  |  |

CAD drawings can be downloaded from IAI website. www.intelligentactuator.com The opening side of the slider is the home position.
The motor-encoder cable is connected here. See page A-39 for details on cables.

Dimensions

2D CAD





For Special Orders



| Dimensio    | Dimensions and Weight by Stroke |      |      |       |  |  |
|-------------|---------------------------------|------|------|-------|--|--|
| Stroke      | Stroke 40 60 80 100             |      |      |       |  |  |
| L           | 130                             | 150  | 170  | 190   |  |  |
| м           | 71.5                            | 81.5 | 91.5 | 101.5 |  |  |
| N           | 57.5                            | 67.5 | 77.5 | 87.5  |  |  |
| Weight (kg) | 0.51                            | 0.56 | 0.61 | 0.66  |  |  |

RCP2 ROBO Cylinder

🚰 P. A-**9** 

| ② Compatible controller  |               |                      |  |                         |                  |                       |                |                |
|--|---------------|----------------------|--|-------------------------|------------------|-----------------------|----------------|----------------|
| The RCP2 series actuators can operate with the controllers below. Select the controller according to your usage. |               |                      |  |                         |                  |                       |                |                |
| Name   | External View | Model                | Description  | Max. Positioning Points | Input Voltage    | Power Supply Capacity | Standard Price | See Page       |
| Solenoid Valve Type  | -             | PMEC-C-20PI-NP-2-①   | Easy-to-use controller, even for beginners   |                         | AC100V<br>AC200V | See P481              | -              | ightarrow P477 |
| Solenoid valve Type  | 1             | PSEP-C-20PI-NP-2-0   | Operable with same signal as solenoid valve.<br>Supports both single and double solenoid | 3 points                |                  | 2A max.               | -              | → P487         |
| Splash-Proof<br>Solenoid Valve Type  | 1             | PSEP-CW-20PI-NP-2-0  | types.<br>No homing necessary with simple absolute type.                                 |                         |                  |                       | -              |                |
| Positioner Type  | Ű             | PCON-C-20PI-NP-2-0   | Positioning is possible for up to 512 points   | 512 points              |                  |                       | -              |                |
| Safety-Compliant<br>Positioner Type  | 8             | PCON-CG-20PI-NP-2-0  |  |                         |                  |                       | -              |                |
| Pulse Train Input Type<br>(Differential Line Driver)   | đ             | PCON-PL-20PI-NP-2-0  | Pulse train input type with<br>differential line driver support                          |                         | DC24V            |                       | -              | → P525         |
| Pulse Train Input Type<br>(Open Collector)   |               | PCON-PO-20PI-NP-2-0  | Pulse train input type with<br>open collector support                                    | ()                      |                  |                       | -              |                |
| Serial<br>Communication Type   |               | PCON-SE-20PI-N-0-0   | Dedicated to serial communication  | 64 points               |                  |                       | -              |                |
| Field Network Type   |               | RPCON-20P            | Dedicated to field network   | 768 points              |                  |                       | -              | → P503         |
| Program Control<br>Type  |               | PSEL-C-1-20PI-NP-2-0 | Programmed operation is possible<br>Operation is possible on up to 2 axes                | 1500 points             |                  |                       | -              | → P557         |

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

XSEL

lider ype

Mini Standard

Controllers Integrated Rod Type Mini Standard



Model Specification Items



| Actuatos              |  |
|-----------------------|--|
| Model number          |  |
| RCP2-GRHM-I-35P-2-32- |  |
| RCP2-GRHB-I-42P-2-40- |  |

| Options |  |
|---------|--|
| Name    |  |

| Nume                                   | option code |  |
|--|-------------|--|
| Optional cable exit direction (top)    | CJT         |  |
| Optional cable exit direction (right)  | CJR         |  |
| Optional cable exit direction (left)   | CJL         |  |
| Optional cable exit direction (bottom) | CJB         |  |
| Flange bracket                         | FB          |  |
| Shaft bracket                          | SB          |  |
|  |             |  |

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## **Applicable Controllers**

| Name  | Model number     |  |
|---|------------------|--|
| Solenoid type (100-V specification)             | PMEC-CNP-2-1     |  |
| Solenoid type (24-V specification)              | PSEP-CNP-2-0     |  |
| Splash-proof solenoid type (24-V specification) | PSEP-CW-D-NP-2-0 |  |
| Positioner type                                 | PCON-C-□-NP-2-0  |  |
| Field network type                              | RPCON-           |  |
| Program type                                    | PSEL-C-1NP-2-0   |  |

| Cables                         |                       |  |
|--------------------------------|-----------------------|--|
| Туре                           | Cable Symbol          |  |
| Standard type<br>(robot cable) | P (1m)                |  |
|                                | S (3m)                |  |
|                                | M (5m)                |  |
| Special length                 | X06 (6m) ~ X10 (10m)  |  |
|                                | X11 (11m) ~ X15 (15m) |  |
|                                | X16 (16) ~ X20 (20m)  |  |

### External Dimensions – Mounting Bracket

#### • RCP2-GRHM



#### Selection Guideline

The maximum work part mass that can be transported varies depending on the coefficient of friction determined by the materials of the robot's finger and work part as well as on the shape of the work part.

As a guide, the maximum work part mass should not be more than one-tenth to one-twentieth of the normal gripping force.

Also, when a large acceleration/deceleration or impact is applied while the work part is transported, an allowance (one-thirtieth to one-fiftieth) must also be considered. The distance from the finger installation surface to the gripping point (L) shall conform to the applicable dimension shown to the right.

In push-motion operation, the gripping force (push force) can be adjusted within a range of 20 to 70% in current-limiting values of the controller.

#### • RCP2-GRHM



50

• RCP2-GRHB

250

Current-limiting value (ratio, %) Accuracy of the relationship between the push force (gripping force) and current-limiting value is not assured. The above graphs should only be used as a reference. • Take note that if the push force is too small, the push force may vary or malfunction may result due to the slide resistance, etc.

Ŷ Caution Note







Flange bracket





• RCP2-GRHB

15<sub>±0.0</sub>

6

20

Shaft bracket

ø20

70







The current-limiting value should be at least 20%.

• The finger should be as small and light as possible.

If the finger is long, large or heavy, performance may drop or the guide may be negatively affected.



#### Specification Table

| Type / Model number                | Medium size high-force type GRHM                                      | Large size high-force type GRHB |  |
|------------------------------------|---|---------------------------------|--|
| Opening/closing stroke             | 32 mm (16 mm per side)  | 40 mm (20 mm per side)          |  |
| Maximum grip force (N)             | 125   | 200                             |  |
| Maximum opening/closing speed      | 100 mm/s (per side)   | 100mm/s (per side)              |  |
| Positioning repeatability          | ±0.01mm   | ±0.01mm                         |  |
| Allowable static load moment (N•m) | Ma:11.7 Mb: 16.7 Mc: 46.5   | Ma: 15.7 Mb: 26.4 Mc: 59.8      |  |
| Position detection method          | Magnetic Encoder (incremental)  |                                 |  |
| Use environment                    | Temperature 0 to 40°C, humidity 20 to 85% RH or less (non-condensing) |                                 |  |
| External dimensions (mm)           | 44 (D) × 116 (W) × 105 (L)  | 50 (D) x 131 (W) x 118 (H)      |  |
| Mass (kg)                          | 1.14  | 1.5                             |  |

### External Dimensions







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