Teaching Pendant / Controller

NAU ROBOT Teaching Pendant 2.2.7

Based on the TAICHI programming language, NAUROBOTICS NUCA-only teaching pendant widely supports robot control, IO system, network communication, etc., to support smooth work instruction and an automated process system.

Product Specific

- **Screen Size** : 7 inch
- **Resolution** : 1024 x 600
- **Size** : 550mm x 210mm x 50mm
- **Weight** : 0.6 kg (without cable)
- **Protection Level** : IP54
- **Environment** : Avoid flammable or corrosive objects, gases, etc.
- Pay attention to dust, gas pollution, metal materials, fuel, etc.

Main Features

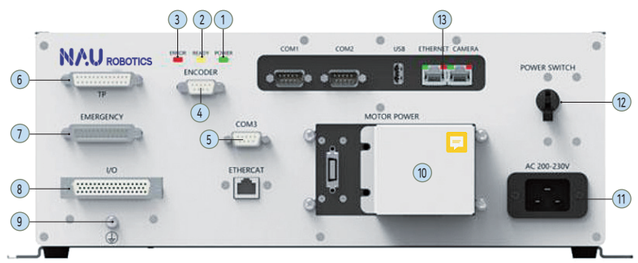
- TAICHI Programming Language
- I/O system with standard digital I/O and expandable Fieldbus modules
- TCP/IP and Modbus RTU communication
- Conveyor tracking module
- Provide additional system modules

1. **Connection cable** : A device that connects the teaching pendant to the controller product
2. **Touch screen** : Screen with information and working status etc.
3. **Mode switching switch** : The button to help you choose teaching mode, automatic mode, etc.
4. **Emergency stop button** : The button that can be used in an emergency situation, and the program and robot motor supply, etc. are interrupted when operating
5. **Control panel** : The panel with buttons for teaching, starting, stopping, troubleshooting, etc.

NAU Controller NRC-40

NAUROBOTICS NUCA-only controller NRC-40 supports high performance in robot operation with software featuring a real-time system and bus control.

1) Power supply
2) Preparation device
3) Error device
4) External encoder interface
5) COM3 driver debugging port
6) TP connection connector
7) Emergency connector
8) IO connector
9) GND terminal
10) Body connector
11) Power interface
12) Power switch
13) Lan wire connection interface



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NUCA Series

NAU ROBOTICS

SCARA robot, **NUCA series**

The NAU ROBOTICS SCARA robot series, NUCA, was created to reflect the diverse needs of the field to best meet the manufacturing process automation line. If you want high-precision assembly, top-speed performance, and optimal automation, meet NUCA!

Numbering Rules

NUCA **3** – **R400**

- **3**: Maximum load weight
- **R400**: Arm Length

NUCA3-R400

NUCA3-R400 is the most compact designed SCARA robot. It can be applied to processes that require high precision work, such as electrical and automotive parts, and can cover a wide range in tight spaces with a maximum load of 3kg and an arm length of 400mm, featuring optimal efficiency!

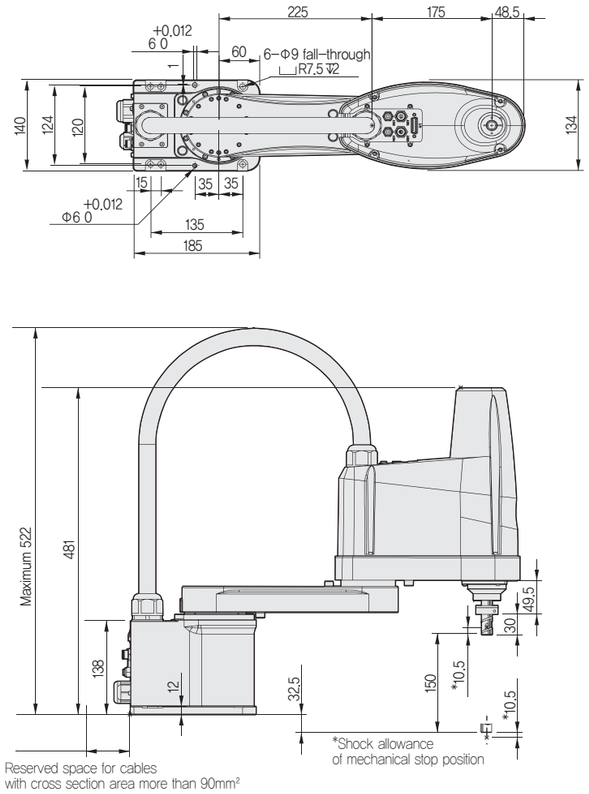
- Application field : Handling / Assembly / Insert / Palletizing loading
- Features : Compact design / High precision, fine-grained process applicability / Wide range coverability

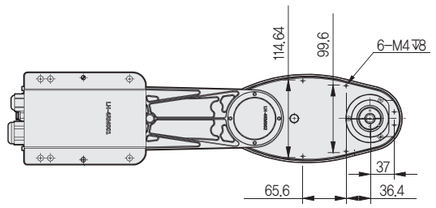
Parameters

Product Model	NUCA3-R400	
Installation Method	Table Top Installation	
Arm length	No.1+ No.2 arm length	400
	No.1 Shift arm lengh	225
	NO.2 Shift arm length	175
Body weight (cable excluded)	14kg	
Repeatability	Joint No.1+ No.2	± 0.01 mm
	Joint No.3	± 0.01 mm
	Joint No.4	±0.01°
Maximum velocity of Motion	Joint No.1+ No.2	6000 mm/s
	Joint No.3	1100 mm/s
	Joint No.4	2600°/s
Maximum motion range	Joint No.1	± 130°
	Joint No.2	± 147°
	Joint No.3	150 mm
	Joint No.4	± 360°
Load	Rated ℃ (℉)	1 kg
	Maximum	3 kg
Standard cycle time		0.48s
Allowable inertia moment of joint No.4	Rated ℃ (℉)	0.005 kg.m^2
	Maximum	0.05 kg.m^2
Ambient temperature	5 ~ 40℃ (there should be no major change)	
User circuit	15 pin (D-sub connector)	
User gas circuit	Ø4mm x 2, Ø6mm x 2	
Top pressure of joint no.3	100N	
Horning	Absolute Home	

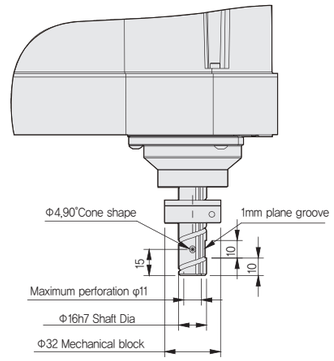
NUCA3-R400

Outline Dimensions Drawing

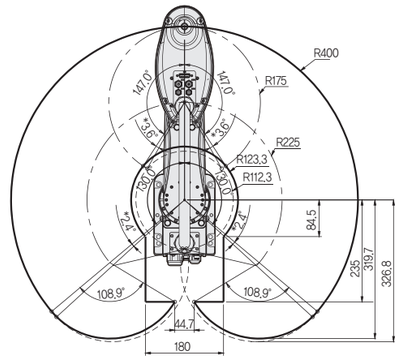




Tool Mounting Surface



Motion Range Drawing



SCARA robot, **NUCA series**

NUCA5-R400

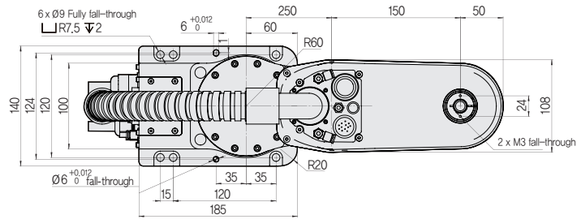
NUCA5-R400 has been created as a compact design applying articulated modules to save space. It moves faster and more accurately compared to traditional robots, allowing it to be applied to tasks that require high completeness, showing excellent efficiency.

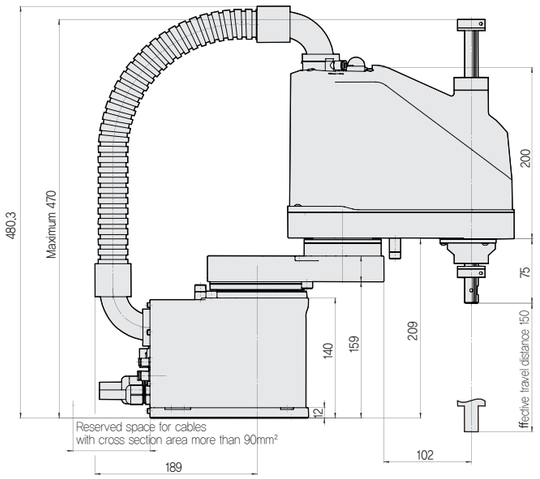
- Application field : Handling / Assembly / Insert / Palletizing loading
- Features : Compact design / High speed / High accuracy

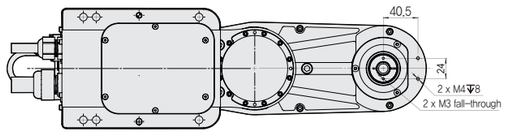
Parameters

Product Model	NUCA5-R400	
Installation Method	Table Top Installation	
Arm length	No.1+ No.2 arm length	400
	No.1 Shift arm lengh	250
	NO.2 Shift arm length	150
Body weight (cable excluded)	14kg	
Repeatability	Joint No.1+ No.2	± 0.01 mm
	Joint No.3	± 0.01 mm
	Joint No.4	± 0.005°
Maximum velocity of Motion	Joint No.1+ No.2	6576 mm/s
	Joint No.3	1100 mm/s
	Joint No.4	2000 °/s
Maximum motion range	Joint No.1	± 140°
	Joint No.2	± 144°
	Joint No.3	150 mm
	Joint No.4	± 360°
Load	Rated ℃(℉)	2 kg
	Maximum	5 kg
Standard cycle time		0.36s
Allowable inertia moment of joint No.4	Rated ℃(℉)	0.005 kg.m^2
	Maximum	0.05 kg.m^2
Ambient temperature	5 ~ 40℃ (there should be no major change)	
User circuit	15 pin (D-sub connector)	
User gas circuit	Ø4mm x 2, Ø6mm x 2	
Top pressure of joint no.3	100N	
Horning	Absolute Home	

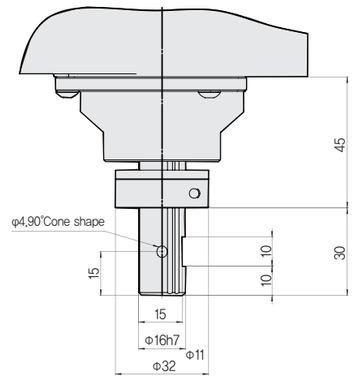
Outline Dimensions Drawing



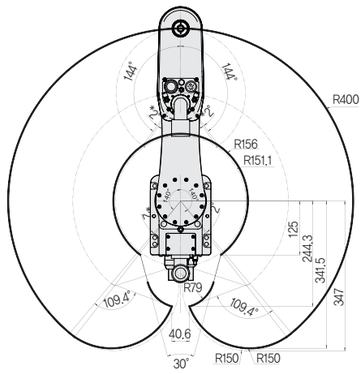




Tool Mounting Surface



Motion Range Drawing



SCARA robot, **NUCA series**

NUCA6-R500, NUCA6-R600

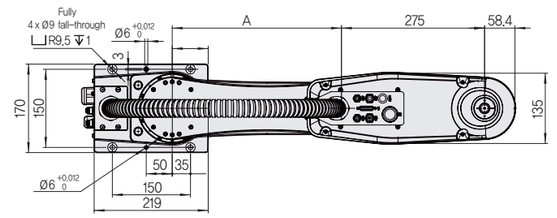
NUCA6-R500, NUCA6-R600 and NUCA6-R600 are simple yet high-performance lines.

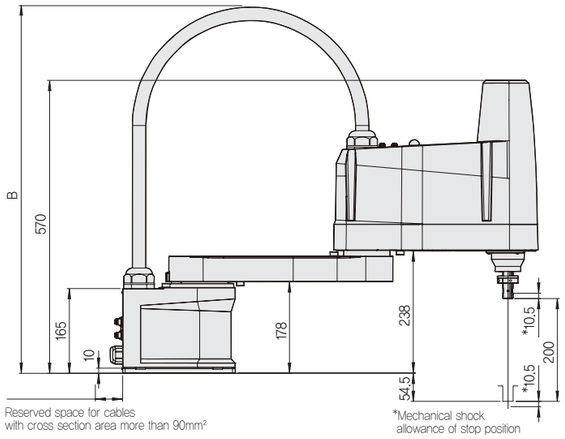
With a maximumload of 6 kg and arm lengths of 500m and 600m, it covers a wide working radius and can be applied to a wide range of handling tasks, from simple work to complex processes.

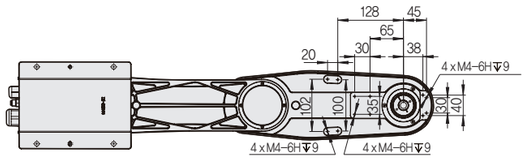
Parameters

Product Model		NUCA6-R500	NUCA6-R600
Installation Method		Table Top Installation	
Arm length	No.1+ No.2 arm length	500	400
	No.1 Shift arm lengh	225	225
	NO.2 Shift arm length	275	175
Body weight (cable excluded)		17 kg	18 kg
Repeatability	Joint No.1+ No.2	± 0.015 mm	± 0.015 mm
	Joint No.3	± 0.01 mm	± 0.01 mm
	Joint No.4	± 0.01°	± 0.01°
Maximum velocity of Motion	Joint No.1+ No.2	6150 mm/s	6800 mm/s
	Joint No.3	1100 mm/s	1100 mm/s
	Joint No.4	2000 °/s	2000 °/s
Maximum motion range	Joint No.1	± 132°	± 132°
	Joint No.2	± 150°	± 150°
	Joint No.3	200 mm	200 mm
	Joint No.4	± 360°	± 360°
Load	Rated ℃(℉)	2 kg	2 kg
	Maximum	6 kg	6 kg
Standard cycle time		0.4 s	0.42 s
Allowable inertia moment of joint No.4	Rated℃(℉)	0.01 kg.m^2	0.01 kg.m^2
	Maximum	0.12 kg.m^2	0.12 kg.m^2
Ambient temperature		5 ~ 40℃ (There should be no major change)	
User circuit		15 pin (D-sub connector)	
User gas circuit		Ø4mm x 2, Ø6mm x 2	
Top pressure of joint no.3		100N	
Horning		Absolute Home	

Outline Dimensions Drawing

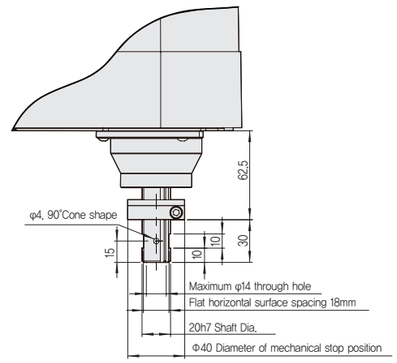






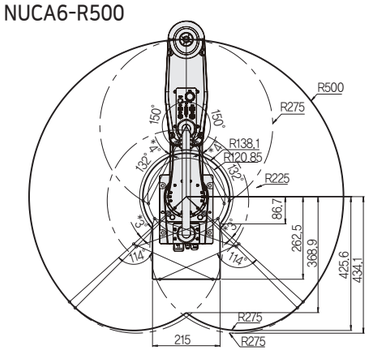
	NUCA6-R500	NUCA6-R600
A	225	325
B	652	712

Tool Mounting Surface



Motion Range Drawing

NUCA6-R500



NUCA6-R600