

Robot



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Safety precautions

- Before using the robots, review all documentation including operating instructions and other attached documents. Familiarize yourself with the contents in order to ensure proper robot operation.
- When a robot is to be used for an application where robot trouble or operating errors may directly threaten the life or cause physical harm to personnel, a careful examination of its intended use is required. Contact a Nachi-Fujikoshi sales representative to provide details of the intended use.
- Photos used in this document show the robots without safety fences, equipment, and devices that are required to comply with the applicable laws and regulations for ensuring safety. These photos are only provided to illustrate what is being described.
- The external appearances, specifications, etc. of the products portrayed in this catalog are subject to change without notice due to improvements in performance.

CATALOG NO.	R7001E-5
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Fast, Strong, and Accurate.

Presto

Applicable for handling, assembly, de-burring, sealing, resistance welding, and arc welding

MR MC VS STF LP NB NV series

"Nimble" - performs actions with ease to create a smooth workflow.



Forte

Handles heavy loads

SC series

Impressive size and mammoth strength allows for fast operations.

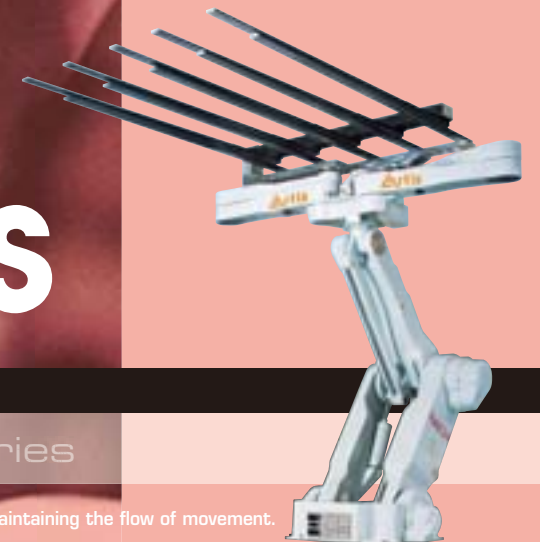


Artis

Glass substrate transfer

SCC STCF SJ series

Designed for handling delicate processes while maintaining the flow of movement.



Presto

The Presto Series is the best partner for manufacturing. The Series support a wide range of customers' needs such as handling, assembly, de-burring, sealing, spot welding and arc welding.

Presto LP130/180

4-axis palletizing robot

This palletizing robot is very fast and super rigid. Wide range of loading operations packed in a small space to further increase speed and performance on packing lines.



Presto LP130

Presto MR35/50

Handling Robot with 7-axis Range-of-Motion

The MR35/50 robots also employ our 7-axis structure concept. The MR35/50 robots come with an IP67 rating as standard, so they can work in various conditions to improve productivity through robotic automation.



Presto MR50

Presto MC20/10L

Best Handling Robot in Its Class

The Presto MC20/10L is your partner for improving productivity. With maneuverability at the top of its class, it has a full set of functions that support a variety of applications and jobs.



Presto MR20

Presto MR20/20L

Handling Robot with 7-axis Range-of-Motion

This robot employs the new 7-axis structure concept and 20 kg in a compact body with a powerful load capacity. The robot's multiple positions allow for a more compact layout.



Presto MC20

Presto MC35/50/70

Best Handling Robot in Its Class

The smallest footprint and the widest operation range in its class. This is the latest evolution of multi purpose robots.



Presto MC50

Presto VS05G/BW/BW VS05LG/BW/BW

Compact, High-Precision Handling Robot

With optimal speed and precision in its class, this robot is perfect for delicate processes.



Presto VS05G-01

Presto



Presto ST133FA

Presto ST
133FA/166FA/210FA
133TFA/166TFA/210TFA

Spot welding robot

The best range of operations in its class. Equipped with a wide variety of spot welding functions, such as A-trac4 welding cable protection.

OPTION

Servo-Gun with Welding Pressure Feedback

Improves the quality of welding and offers welding history management.



OPTION

Offline Teaching Automatic Compensation System

Ultra-compact camera offers high-accuracy compensation for accurate welding.



Presto ST210F

Presto ST
133F/166F/210F
133TF/166TF/210TF

Fastest robot in its class

The fastest operating speed in its class. Dramatically increase efficiency on any production site with environmentally friendly designs.

Presto ST70L/100

Compact, Multi-Purpose Robot

A compact body and powerful load capacity offers the same wide range of operations as previous models. This robot is perfect for mounting a light-weight spot-welding gun.



Presto NB04

Presto NB04/04L NV06/06L

Arc Welding Robot

By housing the arc welding cable in the arm, this robot has a high level of freedom for arc welding layout and steady wire feed.

Applications

FLEXhand Multi-purpose gripper for handling robot

Flexible to Various Work Shapes

- Servo drive allows non- step clamp stroke setting
- Synchronized to robot operation as an additional axis

Big Stroke and Strong Gripping Force

- A 120mm claw stroke allows handling of various work sizes
- Maximum gripping force is 3,600N (total all digits)

Do Not Drop a Work While PowerDown

- Mounting a function to keep holding a work even during power down



Gripping round objects



Gripping square objects

Vision

The vision function of these robots offers a multitude of applications. The robots are capable of a wide variety of configurations for systems consisting of a variety of workpieces and work conditions.

Synchro Vision



Vision System Tracks Conveyor Belt



Cross Laser with 3D Sensor



Seam Welding

Features of Robot-Mounted Seam Welding

■ Synchronized Rotation of Electrodes

Synchronization of robot speed and rotation of electron rollers operations is simple.

■ Electron Dress Function

Rotation of the electrode ring can be accomplished when the robot is stopped during electron dress operation.

■ Weld Change for Different Speeds

A maximum of 5 different welds and speeds can be programmed during one continuous weld.



Forte

The Forte Series of robots showcases NACHI's ability to handle heavy loads with large vertical articulation. Having the largest load capacity in the world, the Forte series robots can transport heavy loads previously accomplished by special machinery.

Forte SC300F/400L/500/700

Robots for Handling Heavy Loads

These robots are the only ones in the world that can transport heavy loads, such as car bodies, previously done by specialized machinery.



Forte SC700



Forte SC500



Forte SC400L



OPTION

Lifter

A maximum of 4 pillars can simultaneously transport heavy and long items up and down.



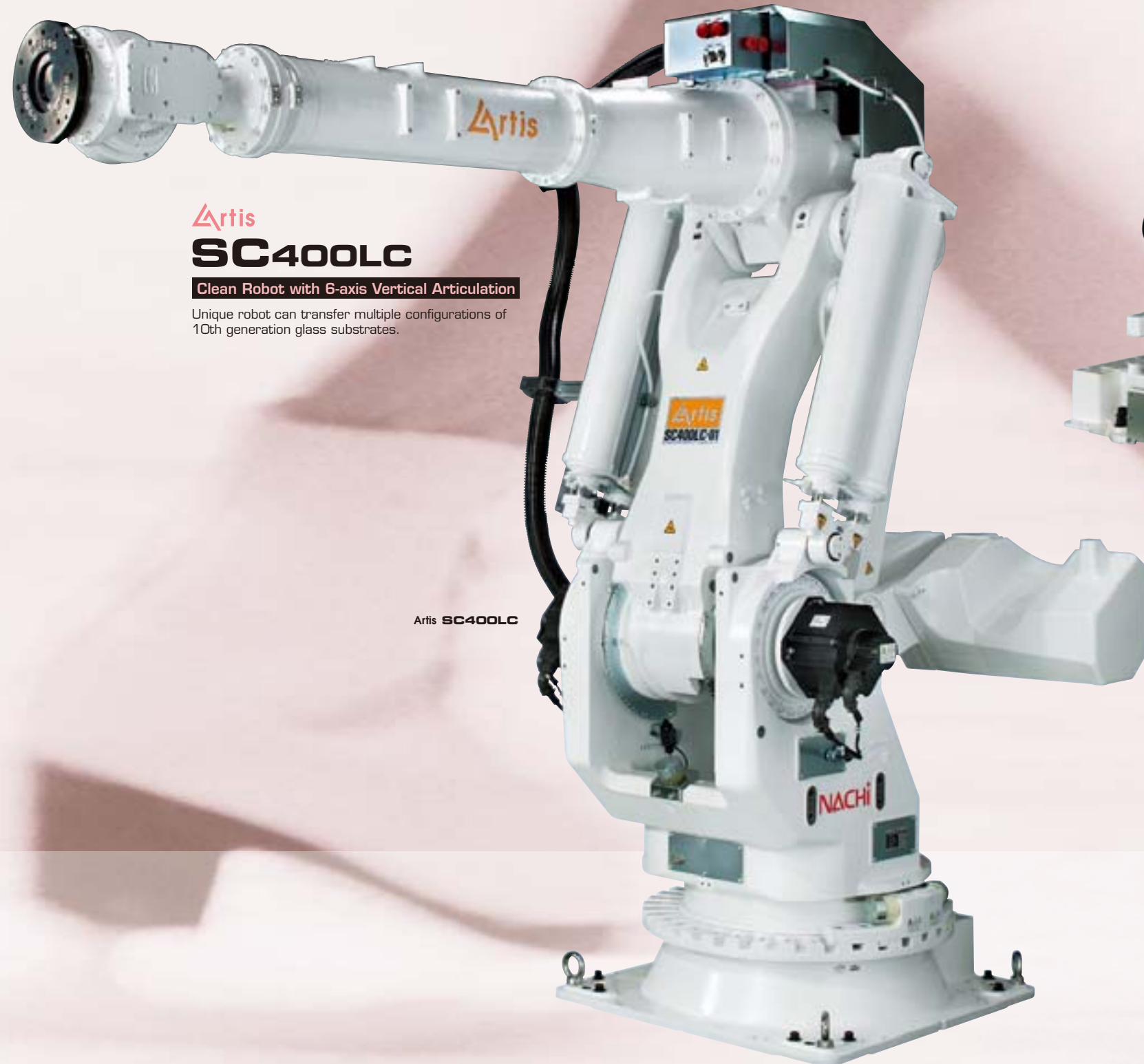
OPTION

Unrestricted Revolving Worktable for Heavy Loads

Available mounting for standard 2 ton and large-capacity 4 ton.



Transferring large flat panel displays requires not only the ability to handle heavy objects, but also the dexterity to quickly and gently carry delicate glass substrates. The Artis Series has the exceptional characteristics to meet these demands.



Artis SC400LC

Clean Robot with 6-axis Vertical Articulation

Unique robot can transfer multiple configurations of 10th generation glass substrates.

Artis SC400LC



Artis ST133CF

Artis ST133CF/166CF/210CF

Vertical articulated clean robot has great loading capabilities

Improved damping and reduced cycle times by increasing speed and rigidity. Excellent for moving heavy items with a maximum load capability of 210 Kg (ST210CF).



Artis SJ120C

Artis SJ80C/120C

Robots Designed for Transferring Glass Substrates

Perfect for horizontal transfer of 7th generation (SJ80C) through 9th generation (SJ120C) and other various-sized glass substrates.



Loading a cassette
Substrate size: 2,500 x 2,200



Unloading glass substrate
from a canted pallet
Substrate size: 2,500 x 2,200

AX Controller & Support Ware

The AX Series intelligent robot controller is based on WindowsNT™. The teach pendant centrally manages a network of visual and force sensors that allows for easy operation of robots and additional axes. Various support software provides information on robot conditions and safe operation.

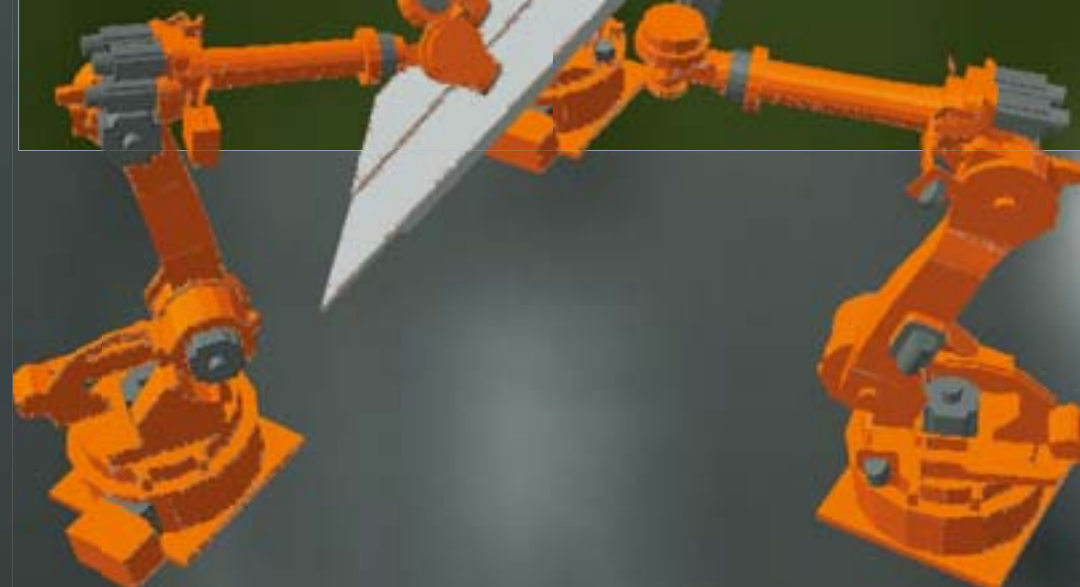
AX Controller

- Easy operation using the touch panel
- Programming using the software PLC
- Built-in electronic manual for easy operation
- Ergonomic design enhances comfort

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Cooperative operation using multiple robots



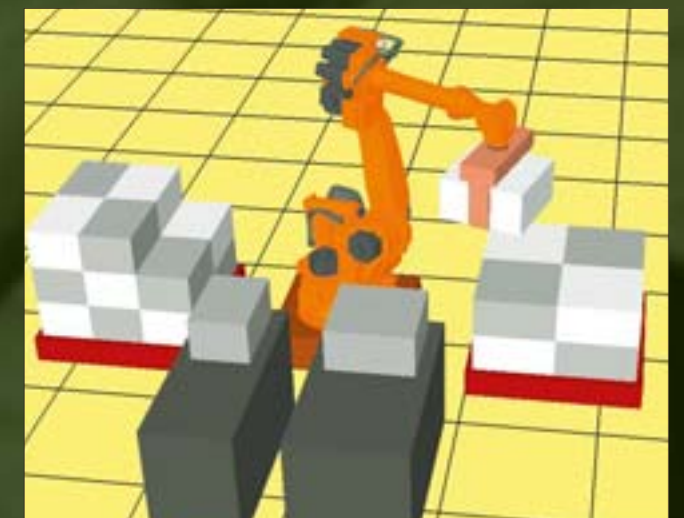
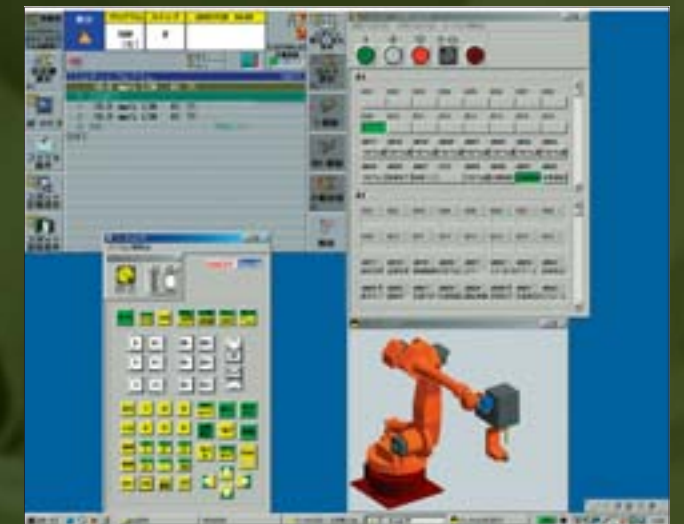
AX on Desk

Robot programming tool incorporated into your office computer!

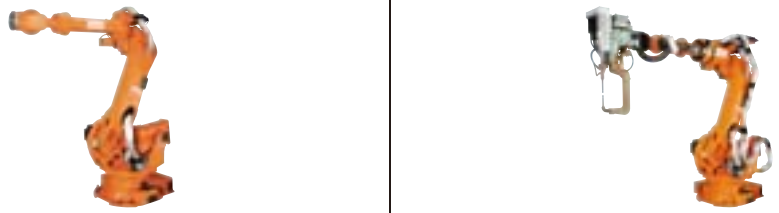
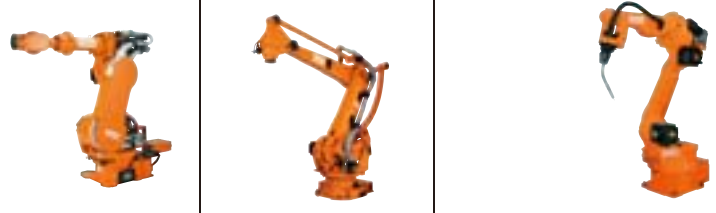
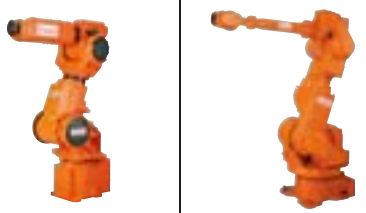
AX on Desk allows programming to be conducted on an office computer. This software is used to:

- Conduct applicable analysis and interference checks prior to installation
- Conduct offline teaching
- Simulate precise cycle times
- Edit the sequence ladder of the software PLC
- Use as an instruction tool for robot operation

Use for a variety of other functions.



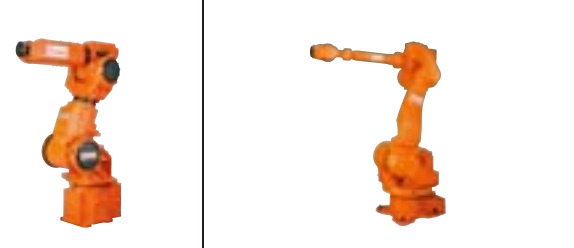
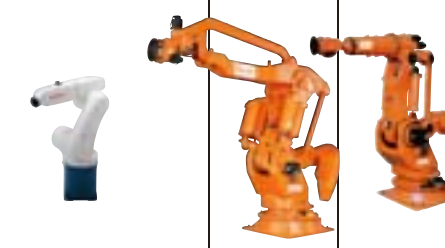


Specifications

																										
Model		ST133F	ST133TF	ST166F	ST166TF	ST210F	ST210TF	ST133F-01A	ST133TF-01A	ST166F-01A	ST166TF-01A	ST210F-01A	ST210TF-01A	ST100	ST70L	LP130-01	LP180-01	NB04	NB04L	NV06	NV06L	MR20	MR20L	MR35	MR50	
Cross Section		Vertical Articulation												Vertical Articulation												
No. of Axes		6												6		4		6				7				
Drive Method		AC Servo Type												AC Servo Type												
Max. Operating Area	Arm	J1 Swivel 1	±3.14rad						±3.14rad						±2.62rad		±3.14rad		±2.97rad				±3.14rad		±2.88rad	
		J2 Back & Forth	+1.05~-1.40rad	+2.09~-1.13rad	+1.05~-1.40rad	+2.09~-1.13rad	+1.05~-1.40rad	+2.09~-1.13rad	+1.05~-1.40rad	+2.09~-1.13rad	+1.05~-1.40rad	+2.09~-1.13rad	+1.05~-1.40rad	+2.09~-1.13rad	+2.09~-1.05rad		+0.71~-1.65rad		+1.57~-2.71rad	+1.75~-2.71rad	+1.57~-2.71rad	+1.75~-2.71rad	+0.96~-2.09rad		+0.96~-2.09rad	
		J7 Swivel 2	-						-						-		-		-				±3.14rad		±3.32rad	
	Wrist	J3 Up & Down	+2.62~-2.40rad	+3.67~-1.85rad	+2.62~-2.40rad	+3.67~-1.85rad	+2.62~-2.40rad	+3.67~-1.85rad	+2.62~-2.40rad	+3.67~-1.85rad	+2.62~-2.40rad	+3.67~-1.85rad	+2.62~-2.40rad	+3.67~-1.85rad	+1.57~-2.18rad	+1.57~-2.04rad	+0.30~-2.04rad		+3.14~-2.97rad	+3.32~-2.97rad	+3.32~-2.97rad	+3.58~-2.97rad	+2.35~-2.89rad		+2.44~-2.55rad	
		J4 Rotation 2	±6.28rad						±3.67rad						±6.28rad		±6.28rad		±2.71rad		±3.14rad		±3.14rad		±6.28rad	
		J5 Bend	±2.36rad			±2.27rad			±2.09rad						±2.36rad		-		+3.93~-0.79rad		+4.01~-0.87rad		±2.35rad/s	±2.42rad/s	±2.18rad	
J6 Rotation 1	±6.28rad						±3.58rad						±6.28rad		-		±3.58rad		±6.28rad		±6.28rad		±7.84rad			
Max. Velocity	Arm	J1 Swivel 1	2.27rad/s	1.92rad/s	1.75rad/s	2.27rad/s	1.92rad/s	1.75rad/s	2.27rad/s	1.92rad/s	1.75rad/s	2.27rad/s	1.92rad/s	1.75rad/s	1.57rad/s	2.27rad/s	2.01rad/s	3.66rad/s	3.40rad/s	3.66rad/s	3.40rad/s	2.96rad/s	3.14rad/s	3.05rad/s	3.05rad/s	
		J2 Back & Forth	2.27rad/s	1.92rad/s	1.57rad/s	2.27rad/s	1.92rad/s	1.57rad/s	2.27rad/s	1.92rad/s	1.57rad/s	2.27rad/s	1.92rad/s	1.57rad/s	1.57rad/s	2.01rad/s	1.75rad/s	3.66rad/s	3.49rad/s	3.66rad/s	3.49rad/s	2.96rad/s	3.05rad/s	2.44rad/s	2.44rad/s	
		J7 Swivel 2	-						-						-		-		-				2.96rad/s	2.27rad/s		
	Wrist	J3 Up & Down	2.27rad/s	1.92rad/s	1.66rad/s	2.27rad/s	1.92rad/s	1.66rad/s	2.27rad/s	1.92rad/s	1.66rad/s	2.27rad/s	1.92rad/s	1.66rad/s	1.57rad/s	2.01rad/s	1.83rad/s	3.66rad/s	3.49rad/s	3.66rad/s	3.49rad/s	2.96rad/s	3.14rad/s	2.88rad/s	2.88rad/s	
		J4 Rotation 2	4.01rad/s	2.97rad/s	2.27rad/s	4.01rad/s	2.97rad/s	2.27rad/s	4.01rad/s	2.97rad/s	2.27rad/s	4.01rad/s	2.97rad/s	2.27rad/s	2.27rad/s	6.98rad/s	6.28rad/s	7.33rad/s				4.36rad/s	6.28rad/s	5.32rad/s	4.45rad/s	
		J5 Bend	4.01rad/s	2.97rad/s	2.27rad/s	4.01rad/s	2.97rad/s	2.27rad/s	4.01rad/s	2.97rad/s	2.27rad/s	4.01rad/s	2.97rad/s	2.27rad/s	2.27rad/s	-		7.33rad/s				4.36rad/s	6.28rad/s	5.32rad/s	4.45rad/s	
J6 Rotation 1	5.32rad/s	4.54rad/s	3.49rad/s	5.32rad/s	4.54rad/s	3.49rad/s	5.32rad/s	4.54rad/s	3.49rad/s	5.32rad/s	4.54rad/s	3.49rad/s	3.14rad/s	-		10.5rad/s		10.82rad/s		5.23rad/s	10.5rad/s	7.33rad/s	6.46rad/s			
Loading Weight	Wrist	133kg	166kg	210kg	133kg	166kg	210kg	133kg	166kg	210kg	133kg	166kg	210kg	100kg	70kg	130kg	180kg	4kg		6kg		20kg(Max. 30kg ^{*3})	20kg	35kg	50kg	
	Load Capacity Arm 1	45kg						15kg						Max. 25kg		25kg		10kg ^{*1}	20kg ^{*1}	10kg ^{*1}	20kg ^{*1}	-		-		
	J3 Forearm	-						-						-		-		-				-		15kg		
Wrist Torque	J4 Rotation 2	745N·m	951N·m	1,337N·m	745N·m	951N·m	1,337N·m	745N·m	951N·m	1,337N·m	745N·m	951N·m	1,337N·m	818N·m	584N·m	-	10.1N·m		11.8N·m		80.8N·m	49N·m	160N·m	210N·m		
	J5 Bend	745N·m	951N·m	1,337N·m	745N·m	951N·m	1,337N·m	745N·m	951N·m	1,337N·m	745N·m	951N·m	1,337N·m	818N·m	584N·m	-	10.1N·m		9.8N·m		80.8N·m	49N·m	160N·m	210N·m		
	J6 Rotation 1	411N·m	490N·m	720N·m	411N·m	490N·m	720N·m	411N·m	490N·m	720N·m	411N·m	490N·m	720N·m	411N·m	294N·m	-	2.94N·m		5.9N·m		44.1N·m	23.5N·m	90N·m	130N·m		
Allowable Moment of Inertia for Wrist	J4 Rotation 2	60.9kg·m ²	88.9kg·m ²	141.1kg·m ²	60.9kg·m ²	88.9kg·m ²	141.1kg·m ²	60.9kg·m ²	88.9kg·m ²	141.1kg·m ²	60.9kg·m ²	88.9kg·m ²	141.1kg·m ²	96.3kg·m ²	85.1kg·m ²	50kg·m ²	69kg·m ²	0.38kg·m ²		0.30kg·m ²		6.0kg·m ²	1.6kg·m ²	16kg·m ²	30kg·m ²	
	J5 Bend	60.9kg·m ²	88.9kg·m ²	141.1kg·m ²	60.9kg·m ²	88.9kg·m ²	141.1kg·m ²	60.9kg·m ²	88.9kg·m ²	141.1kg·m ²	60.9kg·m ²	88.9kg·m ²	141.1kg·m ²	96.3kg·m ²	85.1kg·m ²	-	-	0.38kg·m ²		0.25kg·m ²		6.0kg·m ²	1.6kg·m ²	16kg·m ²	30kg·m ²	
	J6 Rotation 1	30.2kg·m ²	45.0kg·m ²	79.0kg·m ²	30.2kg·m ²	45.0kg·m ²	79.0kg·m ²	30.2kg·m ²	45.0kg·m ²	79.0kg·m ²	30.2kg·m ²	45.0kg·m ²	79.0kg·m ²	43.0kg·m ²	36.7kg·m ²	-	-	0.03kg·m ²		0.06kg·m ²		2.3kg·m ²	0.8kg·m ²	5kg·m ²	12kg·m ²	
Repeatability	±0.2mm						±0.3mm						±0.3mm		±0.3mm	±0.3mm	±0.4mm	±0.08mm ^{*2}		±0.08mm ^{*2}		±0.06mm		±0.07mm		
Ambient Temperature	0~45°C												0~45°C													
Ambient Humidity	20 to 85%RH(without condensation)												20 to 85%RH(without condensation)				20 to 80%RH(without condensation)				20 to 85%RH(without condensation)					
Vibration	0.5G or Less												0.5G or Less													
Installation	Floor	Shelf	Floor	Shelf	Floor	Shelf	Floor	Shelf	Floor	Shelf	Floor	Shelf	Floor	Floor	Floor(OP: Inverted, Wall)				Floor, Inverted		Floor(OP: Inverted, Wall, Inclined)					
Environmental Compliance	-												-													
IP65 Compliant (dust/drip proof)	-												-													
IP67 Compliant (dust/drip proof)	-												-													
Body Weight	1,070kg	1,230kg	1,070kg	1,230kg	1,110kg	1,270kg	1,170kg	1,330kg	1,170kg	1,330kg	1,210kg	1,370kg	760kg	790kg	1,150kg		170kg	280kg	160kg	280kg	230kg		745kg			

*1 The value when maximum loading capacity is loaded as an end effector.
 *2 The value measured with a maximum load on upper arm when robot's operating condition becomes stable after adequate repetition of automatic operation.
 *3 Operation range may be limited by mass loading on wrist.

1 [rad]=180/π [°], 1 [N·m]=1/9.8 [kgf·m]

Specifications

																															
Model		MC20	MC10L	MC35	MC50	MC70	VS05G	VS05LG	SC700	SC500	SC400L	SC300F	SC400LC	ST133CF	ST166CF	ST210CF	Model	SJ120C-28D	SJ120C-28S	SJ80C-24D	SJ80C-18D										
Cross Section		Vertical Articulation										Vertical Articulation																			
No. of Axes		6										6																			
Drive Method		AC Servo Type										AC Servo Type																			
Max. Operating Area	Arm	J1 Swivel 1	±3.14rad			±2.88rad			±2.97rad		±2.79rad		±2.62rad		±2.62rad		±2.62rad		±2.88rad												
		J2 Back & Forth	+1.05~-2.53rad			+1.39~-2.35rad			+1.75~-2.36rad		+1.48~-0.79rad		+1.31~-0.96rad		+1.83~-0.44rad		+1.31~-1.31rad		+1.83~-0.44rad		+1.05~-1.40rad										
		J3 Up & Down	±4.22~-2.84rad			+4.54~-2.55rad			+4.10~-2.15rad		+4.35~-2.16rad		+0.70~-1.57rad		+0.52~-2.18rad		+2.09~-0.44rad		+0.52~-2.18rad		+2.09~-0.44rad		+2.62~-2.40rad								
	Wrist	J4 Rotation 2	±3.14rad			±6.28rad			±3.32rad		+1.57~-0.17rad		±5.24rad		±5.24rad		±6.28rad		±5.24rad		±6.28rad										
		J5 Bend	±2.42rad			±2.18rad			±2.09rad		±2.18rad		±2.09rad		±2.09rad		±2.18rad		±2.09rad		±2.36rad		±2.27rad								
		J6 Rotation 1	±6.28rad			±7.84rad			±6.28rad		±0.17rad		±6.28rad		±6.28rad		±6.28rad		±6.28rad		±6.28rad										
Max. Velocity	Arm	J1 Swivel 1	2.96rad/s	2.62rad/s	3.23rad/s	3.14rad/s	3.05rad/s	4.58rad/s	3.05rad/s	0.79rad/s	1.40rad/s	1.40rad/s	1.66rad/s	1.40rad/s	2.27rad/s	1.92rad/s	1.75rad/s														
		J2 Back & Forth	2.96rad/s			3.14rad/s			2.53rad/s		4.19rad/s		3.49rad/s		0.52rad/s		1.40rad/s		1.40rad/s		1.48rad/s		1.19rad/s		2.27rad/s		1.92rad/s		1.57rad/s		
		J3 Up & Down	2.96rad/s			3.32rad/s			3.14rad/s		2.88rad/s		5.24rad/s		3.49rad/s		0.52rad/s		1.40rad/s		1.40rad/s		1.48rad/s		1.40rad/s		2.27rad/s		1.92rad/s		1.66rad/s
	Wrist	J4 Rotation 2	6.28rad/s			5.32rad/s			4.45rad/s		4.10rad/s		5.24rad/s		0.52rad/s		1.57rad/s		1.57rad/s		1.92rad/s		1.57rad/s		4.01rad/s		2.97rad/s		2.27rad/s		
		J5 Bend	6.28rad/s			5.32rad/s			4.45rad/s		4.10rad/s		5.24rad/s		0.87rad/s		1.57rad/s		1.57rad/s		1.92rad/s		1.57rad/s		4.01rad/s		2.97rad/s		2.27rad/s		
		J6 Rotation 1	10.5rad/s			7.33rad/s			6.46rad/s		6.11rad/s		8.37rad/s		0.52rad/s		2.53rad/s		2.53rad/s		3.14rad/s		2.53rad/s		5.32rad/s		4.54rad/s		3.49rad/s		
Loading Weight	Wrist	20kg(Max. 22kg ^{*3})		10kg		35kg		50kg		70kg		5kg		700kg		500kg		400kg		300kg		400kg		133kg		166kg		210kg			
	Load Capacity Arm 1	-		-		-		-		-		30kg		10kg		20kg		10kg		-		-		-		-		Max. 70kg			
	J3 Forearm	-		-		15kg		-		-		30kg		-		-		30kg		-		-		-		-		-			
Wrist Torque	J4 Rotation 2	49N·m		24.5N·m		160N·m		210N·m		300N·m		11.9N·m		13.800N·m		1.960N·m		1.960N·m		1.666N·m		1.960N·m		745N·m		951N·m		1.337N·m			
	J5 Bend	49N·m		24.5N·m		160N·m		210N·m		300N·m		11.9N·m		3.920N·m		1.960N·m		1.960N·m		1.666N·m		1.960N·m		745N·m		951N·m		1.337N·m			
	J6 Rotation 1	23.5N·m		12N·m		90N·m		130N·m		150N·m		3.9N·m		2.940N·m		980N·m		980N·m		686N·m		980N·m		411N·m		490N·m		720N·m			
Allowable Moment of Inertia for Wrist	J4 Rotation 2	1.6kg·m ²		1.6kg·m ²		16kg·m ²		30kg·m ²		0.295kg·m ²		3.000kg·m ²		200kg·m ²		200kg·m ²		96.3kg·m ²		200kg·m ²		60.9kg·m ²		88.9kg·m ²		141.1kg·m ²					
	J5 Bend	1.6kg·m ²		1.6kg·m ²		16kg·m ²		30kg·m ²		0.295kg·m ²		1.800kg·m ²		200kg·m ²		200kg·m ²		96.3kg·m ²		200kg·m ²		60.9kg·m ²		88.9kg·m ²		141.1kg·m ²					
	J6 Rotation 1	0.8kg·m ²		0.7kg·m ²		5kg·m ²		12kg·m ²		0.045kg·m ²		1.000kg·m ²		147kg·m ²		16.3kg·m ²		147kg·m ²		30.2kg·m ²		45.0kg·m ²		79.0kg·m ²							
Repeatability	±0.06mm			±0.07mm			±0.02mm (center of tool) ^{*1}		±0.03mm (center of tool) ^{*1}		±0.5mm		±0.5mm		±0.5mm		±0.5mm		±0.5mm		±0.5mm		±0.2mm		±0.3mm						
Ambient Temperature	0~45°C										0~40°C				0~45°C				0~45°C												
Ambient Humidity	20 to 85%RH(without condensation)										20 to 90%RH(without condensation)				20 to 85%RH(without condensation)				20 to 85%RH(without condensation)												
Vibration	0.5G or Less										0.5G or Less																				
Installation	Floor, Inverted			Floor(OP: Inverted, Wall, Inclined)			Floor, Inverted		Floor		Floor		Shelf		Floor		Shelf		Floor												
Environmental Compliance	IP65 Compliant(dust/drip proof)			Wrist:IP67 Compliant(dust/drip proof) Body:IP54 Compliant(OP:IP65/67 Compliant)			Standard(OP: dust/drip proof)				-																				
Body Weight	220kg		225kg		640kg ^{*2}			Approx. 35kg		36kg		7.000kg		3.000kg		3.800kg		1.800kg		3.800kg		1.120kg		1.160kg							
Clean Rating ^{*4}	-										Class 6																				

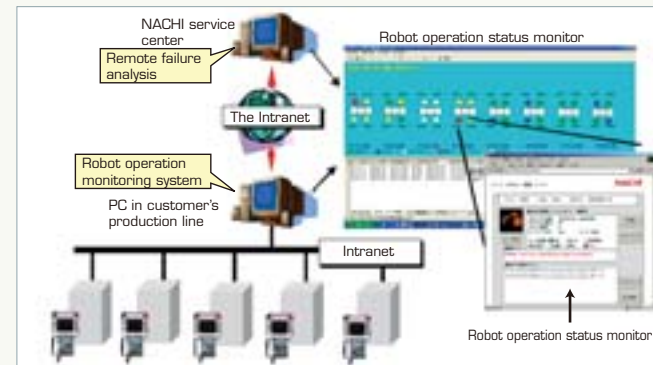
*1 X, Y, Z directions under constant ambient temperature
 *2 With IP65/67 option attached, 647kg
 *3 Operation range may be limited by mass loading on wrist.
 *4 Cleanliness conforms to ISO 14644-01.

1 [rad]=180/π[°], 1 [N·m]=1/9.8[kgf·m]

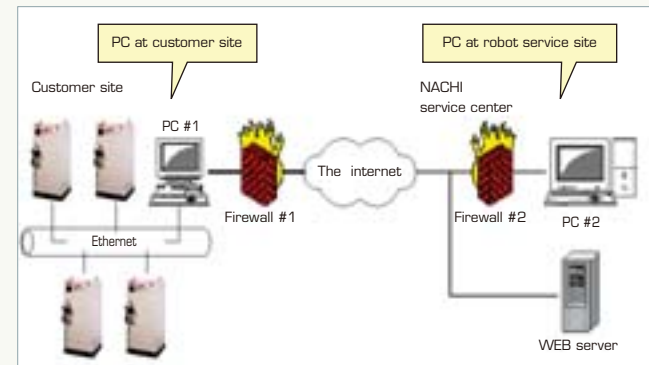
Centralized Robot Monitoring System

The centralized robot monitoring system offers monitoring of multiple robots connected by a network. The system supports preventative maintenance by collecting statistical data, operation history, and maintenance support data to keep the robots operating smoothly.

Robot Operation Monitoring System



Remote Failure Analysis



Robot Systems

System Products

Nachi's system engineering team puts its wealth of experience to work for you, providing system solutions that are easy to use along with high-cost performance.

Peripheral Devices for the Robot

Nachi provides proven highly-reliable robot application devices.

Offline Program System

Robot operations can be simulated before installation to check performance. Creating an operation program beforehand allows the robot to be directly installed in the assembly line.

Post-Installation Service

From Setup Through Startup

Nachi's skilled technicians provide support during the installation process, from setup to connection, teaching, movement, and supervision, until the line is fully operational.

Periodic Inspections

As a trusted and reliable partner, Nachi performs periodic inspections to extend the life of your robot.

can also provide temporary replacement robots to keep your line operating during repairs.

Quick Response to Emergency Calls

Nachi's specialized technicians are "on-call" to immediately respond to customer emergencies.

Overhauls

Nachi provides a selection of services suited to the conditions of your robot and performs overhauls to ensure that your robot is always in the best condition. Nachi

Reliable Support from Remote Locations

Robots can be operated remotely when placed online, allowing specialized service professionals to provide accurate support to worldwide locations.



Teaching



Overhauls



Offline Programming

The Right Parts When You Need Them

Nachi's nine service locations in Japan stocks important maintenance parts. All Nachi service locations are linked via a network to quickly deliver required parts.

Training

Robot Training Course

Nachi provides a curriculum to train operators about robot operations, daily inspections, basic maintenance, and safety regulations.



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