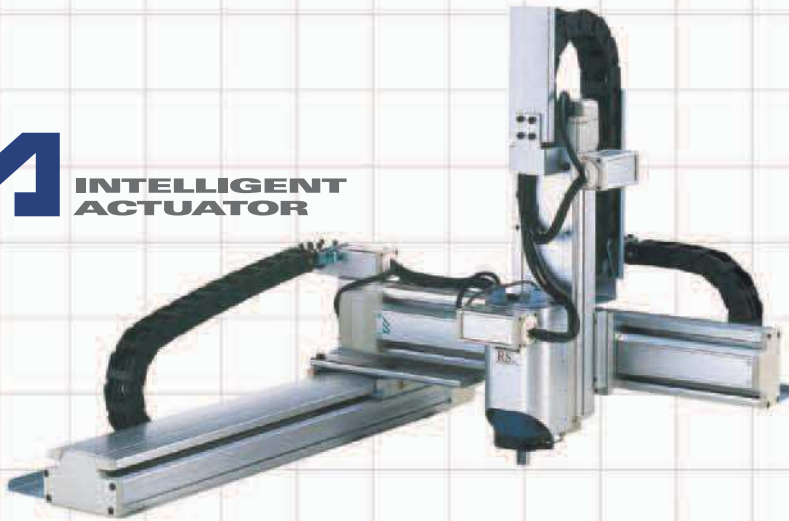




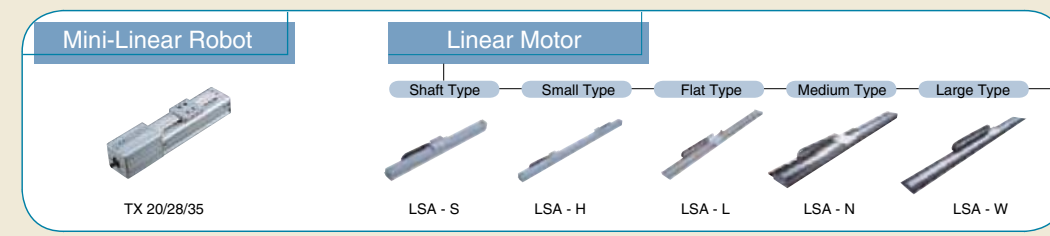
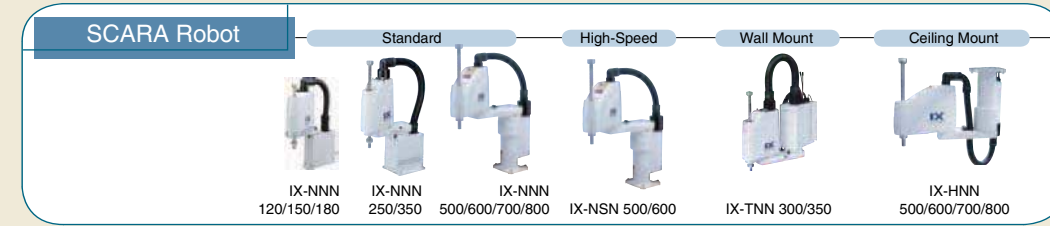
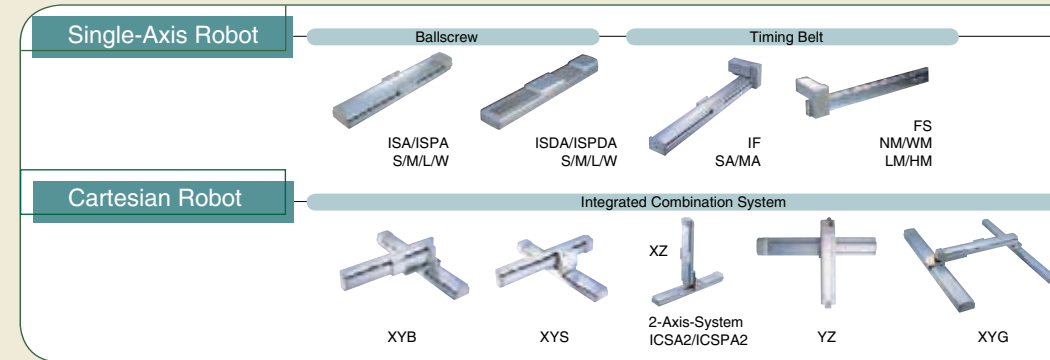
Program Overview

5th Revised Edition



The factory automation can be permanently further developed by using small industrial robots

High precision, high speed, high rigidity, ecological and above all very easy-programming



RCP3

Slider Type: Separate Motor Unit Type SA3/SA4/SA5/SA6

Table Type: Separate Motor Unit Type TA5/TA6/TA7

Rod Type: Standard RA2/RA3/RA4/RA6, Hochlastausführung RA10, Single Guide RGS4/RGS6, Double Guide RGD4/RGD6

Gripper: 2-/3-Finger GRS/GRM/GR3LS/GR3LM/GR3SS/GR3SM

Rotary: RTBL/RTCL

Rod Type: Single Guide RGS4/RGS5/RGS7, Double Guide RGD4/RGD5/RGD7

Flat Type: Sliding Plate F5D

Arm Type: Folded Motor Type A4R/A5R/A6R

Gripper: 2-Finger-Gripper GR8

Rotary: RT6/RT6R/RT7R

Arm Type: Double Guide RGD3/RGD4, Folded Motor Type A4R/A5R/A6R

RCA2

Slider Type: Separate Motor Unit Type SA3/SA4/SA5/SA6

Table Type: Separate Motor Unit Type TA5/TA6/TA7

Micro Cylinder

Slider Type: RCL-SA1/SA2/SA3

Rod Type: RCL-RA1/RA2/RA3

Rotary: RS 30/60

Motor Integrated Slider: NS LXMS/LXMSX/LZMS, LXMM/LZMM

Integrated Combination System: 3-Axis-System XYB+Z ICSPA3/ICSPA3, XYG+Z, 4-Axis-System XYB+Z+RS

TableTop Robot: TT A2/A3, C2/C3

Dust-Waterproof Types Protection Grade IP54 / IP65 / IP67

IP67 RCP2W, IP65 RCP2W, IP54 RCP2W, IP54 RCAW, IP54 RCS2W, IP65 ISWA/ISPWA, IP65 IX-NNW

Clean Room Compliant Clean Room Type ISO-Class 4

RCP2CR, RCACR, RCS2CR, ISDACR/ISPDACR, IX-NNC

WINDOWS-Compatible Programming Software

Controller

P-CON RCP2/RCP3 Controller, 24 V 1-Axis-Positioning

A-CON RCA/RCA2/RCL Controller, 24 V 1-Axis-Positioning

S-CON RSC2/ISA/LSA/NS/FS/IF Controller, 230 V 1-Axis-Positioning

P-SEL, A-SEL, S-SEL (230 V) 1-/2-Axis-Programming

X-SEL-P/Q (230/380 V) 1-6-Axis-Programming




X-SEL-KE/KET (230 V) 1-4-Axis-Programming

RCM-GW-PR/DV/CC Profibus/DeviceNet/CC-Link Gateway

P-CON/A-CON-ABU Absolute Unit for RCP2/RCP3/RCA/RCA2 Cylinder

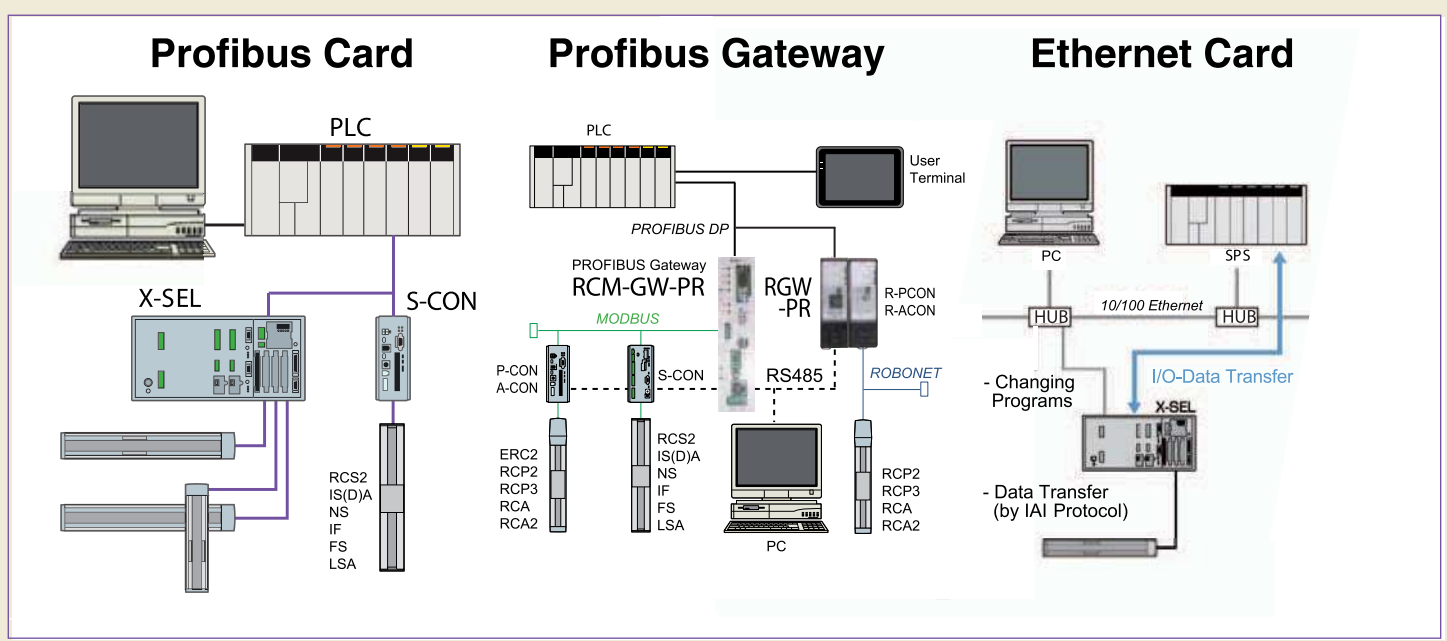
ROBONET Network Controller with Gateway, Absolute and Extension Unit for RCP2/RCP3/RCA/RCA2/RCL Cylinder

Whether you require simple positioning or advance interpolated motion, IAI has a RoboCylinder, an Integrated Combination System, or a high-speed SCARA to suit your needs.

	Application	Advantage	Characteristics
 <p>Electrical cylinder that employs ballscrew, linear guide and stepper or servo motor.</p>	<p>Transfer Positioning Clamp Press-Fit</p>	<p>High precision Long service life Simple Ecological Low Cost</p>	<ul style="list-style-type: none"> • Best suited for replacing pneumatic cylinders • High rigidity with integrated linear guide • Constant speed control at maximum payload • Simple positioning operation up to 512 positions • More environment-friendly than pneumatic cylinders (no air contamination) • Only 1/10 of energy consumption compared with compressor-required pneumatic cylinders
 <p>Intelligent robot with electrical actuators and programmable controller</p>	<p>Linear, 2D- or 3D transfer and positioning Assembly Dispensing</p>	<p>High Precision System solution More Intelligence Clean room compliant</p>	<ul style="list-style-type: none"> • Repeatability up to +/-0.01mm (ISPA) • Maximum 3000 mm stroke with ballscrew with mid-support mechanism or 3000 mm with timing belt • Various combination possibilities with slide, arm and rotary actuators. • Multi-tasking capability up to 16 programs. • Profibus, DeviceNet, CC-Link and Ethernet option • Clean room Type (ISO class 4 compliant) available
 <p>SCARA Robot capable of versatile control using user-friendly SEL language</p>	<p>3-D transfer transfer Pick & Place Product Insertion Palletising Dispensing Assembly</p>	<p>Less manual operation Higher product quality Cost reduction Clean room compliant</p>	<ul style="list-style-type: none"> • Versatile control possible with extensive I/O commands • Simple multi-task programming possible by SEL language • Ultra-high precision of multi-axis positioning using 32bit RISC CPU • Robot control, I/O handling (PLC function) and HMI via serial can be operated simultaneously • Clean room Type (ISO class 4 compliant) available • High speed, high payload and high precision

Network capability for less wiring and data communication

Open network systems are widely used for less wiring and data communication. ERC2, ROBONET, P-/A-/S-CON, P-/A-/S-SEL and X-SEL controllers can accommodate themselves to fieldbus network systems as a slave I/O unit, while Ethernet option makes X-SEL data editing possible.



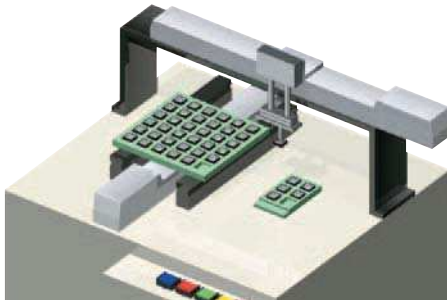
Selection by Specification

Series	Type	Mechanism	Repeatability (mm)	Stroke	Horizontal Payload (kg)	Maximum Speed (mm/sec)	Characteristics
ERC2	Slider Type	Ballscrew	±0,05	50-600	2-20	600	Built-in guides ensure excellent linearity, controller integrated, low cost
	Rod Type			50-300	2-55		A chuck or other device is installed at the tip of the rod. Built-in controller, low cost
RCP2/ RCP3	Slider Type	Ballscrew Timing Belt	±0,02/ ±0,1	50-1200	1-55	1500	Light-weight, compact aluminium base, suitable for transfer or positioning
	Rod Type	Ballscrew	±0,05	50-300	2-55	458	Push function similar to pneumatic cylinder to clamp or press
	Separate Motor Slider Type			50-600	3-10	600	RCP3 Pulse Motor Axis with easy-maintenance motor unit, only 1 connector cable
	Separate Motor Table Type			25-200	6-10	600	RCP3 Pulse Motor Axis with easy-maintenance motor unit, only 1 connector cable, high moment loads, air cylinder design
	IP67-Slider Type			50-600	1-35	180	Dust-/waterproof (IP67)
	IP65-Rod Type			50-300	5-55	450	Dust-/splash-proof (IP65)
	High Thrust Rod Type			80-300	250	For push forces up to 6000 N, also available as IP54 type	
RCA/ RCA2	Slider Type	Ballscrew	±0,02	50-600	4-18	800	Slider Type similar to RCP2 series, but with servo motor instead of pulse motor (24 V)
	Rod Type			50-300	3-18	600	Mounting form similar to pneumatic cylinder for smooth change
	Separate Motor Slider Type			50-600	3-10	600	RCA2 servo motor axis with easy-maintenance motor unit, only 1 cable connector
	Separate Motor Table Type			25-200	5-8	600	RCA2 servo motor axis with easy-maintenance motor unit, only 1 cable connector, high moment loads, air cylinder design
	IP54-Rod Type			50-300	3-18	600	With bellow, it prevents intrusion of foreign particles into axis
	Arm Type			50-200	(only vertical) 2-6	400	With extending arm from cover
RCS2	Slider Type	Ballscrew	±0,02	50-1000	4-60	1000	High Speed Slider type suitable for positioning or transfer
	Rod Type			50-300	4-60	800	Variety of axis type for different mounting spaces
	High Thrust Rod Type			50-200	500	125	High load servo cylinder with max. push/holding force of 2 t
	IP54 Rod Type			50-300	4-18	600	With bellow, it prevents intrusion of foreign particles into axis
	Arm Type			(only vertical) 2-18	800	With extending arm from cover	
IK	Pulse Motor Multi-Axis System	Ballscrew	±0,02	X: 50-1000 Y: 50-400 Z: 50-200	XY: 1,5-16 XYZ: 1-4	600	2- und 3-Axis System with RCP2 Slider Type Axes
	Servo Motor Multi-Axis System			XY: 1,5-24 XYZ: 1-4	1000	2- und 3-Axis System with RCS2 Slider Type Axes	
NS	Horizontal Type	non rotating Ballscrew	±0,02	250-3000	40-80	2400	Motor integrated Slider type (single or double slider)
	Vertical Type			250-1000	(only vertical) 16	1000	Speed and Acceleration same as linear motor
IS(P)WA	IP65-Slider Type	Ballscrew	±0,02 (P: ±0,01)	100-1200	7-70	1000	Dust-/splash-proof, high repeatability with C5 classified ballscrew
IS(P)A	Standard Type P: high Precision			100-2500	12-150	2000	Maximum Stroke of 2500 mm with ball screw, many manufactured sizes
IS(P)DA	Dust Proof Linear Robot P: high Precision			With bellow, it prevents intrusion of foreign particles into axis			
IF	High Rigidity, High Speed	Timing Belt	±0,08	1000-2500	5-40	1750	Belt-driven version of ISA series with high rigidity and high speed
FS	Slim, High Speed			300-3000	2-60	200	Slim body suits various mounting spaces
RS	Rotary, Reduction Gear	Timing Belt	±0,028	360°	-	360°/sek.	Can be combined with single-axis and cartesian robot
ICS(P)A	Multi Axis System	Ballscrew	±0,02 (P: ±0,01)	X: 100-2500 Y: 100-1200 Z: 100-600	XY: 40 XYZ: 19	1000	ISA combination system of 2-, 3-, 4-axes
	2-/3-Axis TableTop Robot			x: 200-400 y: 200-400 z: 50-100	x: 10 y: 5 z: 2	300	Available as gantry or cantilever type, built-in X-SEL controller
IX	Scara, Reduction Gear	Reduction Gear	±0,01	120 • 150 • 180 250 • 350 • 500 600 • 700 • 800	20	7121	Horizontal articulated robot, variety of types

Cleanroom types are also available of series RCP2, RCA, RCS2, IS(P)DA and IX (see page 9)

Pick and Place

Low-cost pick&place unit using RoboCylinder for X and Y axes



Advantage:

- Precise pick&place by multiple positioning of maximum 1500 points and +/-0.02mm repeatability
- Energy-saving for small work pick&place at frequent interval in comparison with pneumatic cylinder

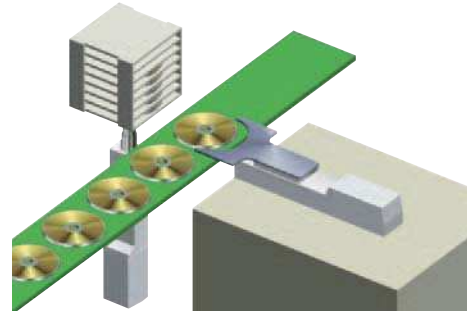


System Configuration

RCS2-SA5
RCS2-SA5
Controller S-SEL

Indexing and Loading

„Pitch Increment“ function to raise or lower the magazine feed, acceleration/deceleration“ function to load discs smoothly.



Advantage:

- No abrupt but smooth start of movement to prevent any damage on disc
- „Pitch Increment“ to lift and lower the magazine at even distance

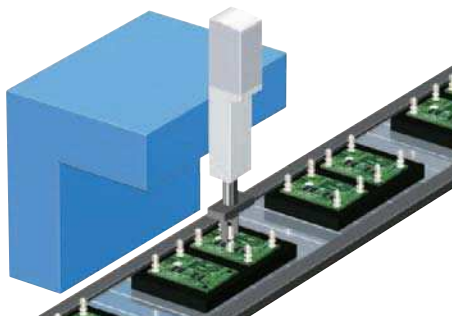


System Configuration

RCP2-RA6
RCS2-SA6

Spacer Insertion

„Push“ function to insert spacers into printed circuit boards



Advantage:

- Maximum of 800N push ensures proper spacer insertion
- Push power can be adjusted

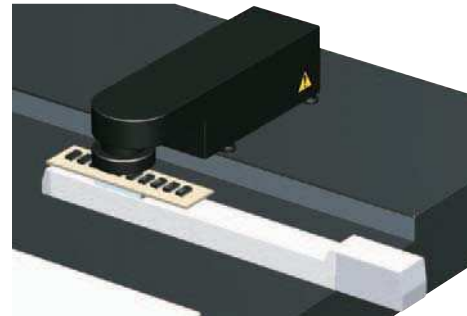


System Configuration

RCP2-RA6
Controller P-CON

Marking

„Pitch Increment“ to transfer work in process of laser marking.



Advantage:

- „Pitch Increment“ function makes more than 512 positions possible

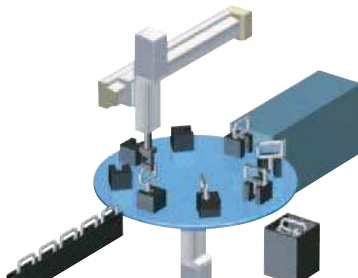


System Configuration

RCS2-SA6
Controller S-CON

Parts Inspection

„Positioning“ function of RoboRotary to rotate the index table, „Soft Grip“ function to grip work



Advantage:

- RoboRotary up to 512 positions
- RoboRotary to prevent abrupt start/stop.
- RoboGripper to transfer fragile work by adjusting gripping force.

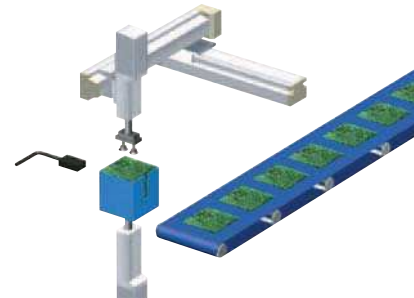


System Configuration

RCP2-RTBL
RCP2-GRS
Controller P-CON

Pick and Place

„Pitch Increment“ to raise work. short Type (RA7) for lack of space in vertical direction



Advantage:

- Suitable for thin work such as wafer or glass plate
- RA7 is so short as pneumatic cylinder



System Configuration

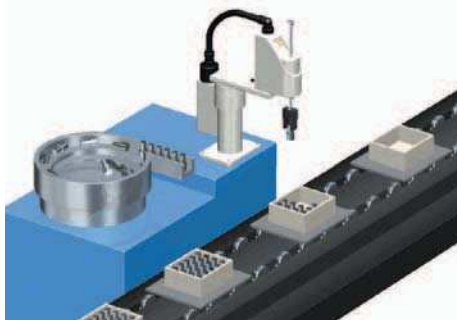
RCS2-RA7
RCS2-RA4
Controller S-SEL



Single-Axis Robot / Cartesian Robot / Clean Room Compliant

Palletising

IX SCARA robot picks work from the feeder and deposit into a pallet. The pallet is carried away by conveyor once became full.



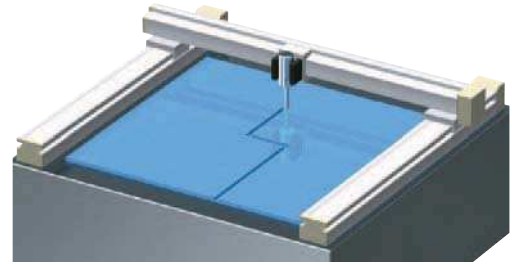
- Advantage:**
- Palletise work with the repeatability of $\pm 0.01\text{mm}$
 - PLC functionality makes peripheral control possible



System Configuration IX-NNN5020 Controller X-SEL-KETX

Cutting

Glass and others are cut in XY dimensions.



- Advantage:**
- Synchronised motion function by X-SEL can make working area bigger



System Configuration Two X-Axes and one Y-Axis Controller X-SEL-KE

Parts Transfer

Transfer small work from one pallet to another according to product Type



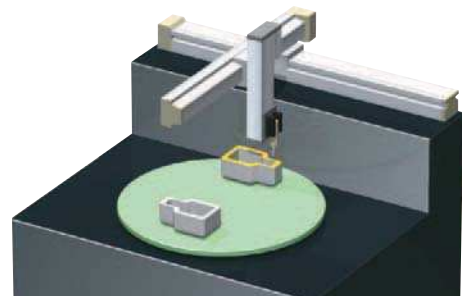
- Advantage:**
- High repeatability of $\pm 0.02\text{mm}$
 - Maximum 3000 positions



System Configuration ICSA3 3-Axis-Combination Controller X-SEL-KE

Dispensing

Dispense adhesive on the 3-dimensional surface



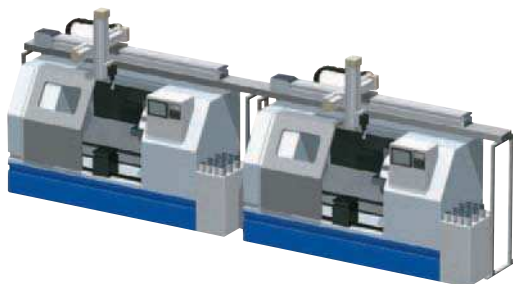
- Advantage:**
- High locus accuracy and speed consistency achieve fast and precise sealing



System Configuration ICSA3 3-Axis-Combination Controller X-SEL-KE

Pick and Place

Cartesian robots mounted on 2 NC milling machines supply and retrieve work



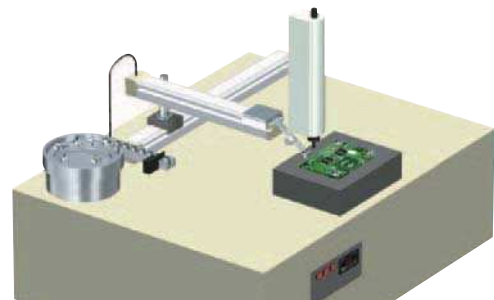
- Advantage:**
- Maximum 3000mm stroke possible
 - More universal than exclusive loading robot



System Configuration Two FS and two ICSA2 Controller X-SEL-P

Screwdriving

Screws supplied by the feeder are brought on the exact spot of work and screwed.



- Advantage:**
- Reduce tact time by maximum 2000mm/sec speed and 1G acceleration
 - Precise positioning with $\pm 0.01\text{mm}$ repeatability



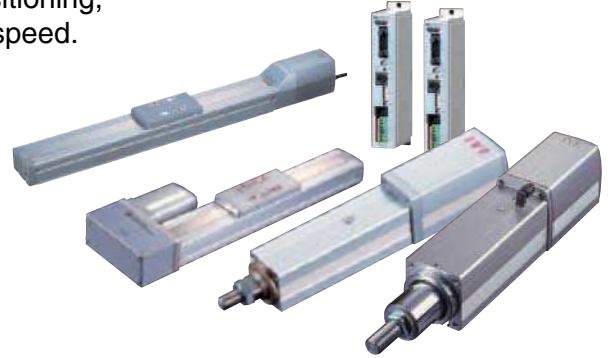
System Configuration ICSA2 Controller X-SEL-KE



High Accuracy, High Rigidity and Attractive Price; Moreover, Save up to 67% in Operating Costs over Pneumatic Cylinders!

RoboCylinder is a motorised cylinder equipped with ballscrew, linear guide and stepper/servo motor. In comparison with pneumatic cylinders, it is capable of multiple of positioning, programmable control over acceleration/deceleration as well as speed. Environment-friendly (less oil mist) and energy-saving.

- High repeatability of +/- 0.02mm
- Built-in linear guide for slider type, external guide option for rod type
- No programming required, only position and speed to be input
- Maximum 512 positions with positioning controller (P-/A-/S-CON)
- Iron base types can be also mounted as X-axis for 2-/3-axes systems (IK series: cartesian cylinders)



Low-Cost and Easy to Use

ERC2



Slider Type

Rod Type

	Slider Type		Rod Type	
Model	SA6	SA7	RA6	RA7
max. Stroke (mm)	600	600	300	300
max. Horizontal Payload (kg)	12	20	40	55
max. Vertical Payload (kg)	6	10	18	25
max. Speed (mm/sec)	600	450	600	450

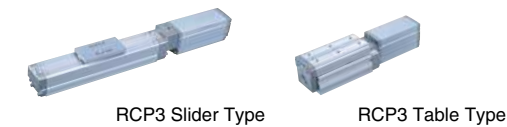
High Thrust, ideal for Pushing

RCP2/RCP3



Slider Type

Rod Type



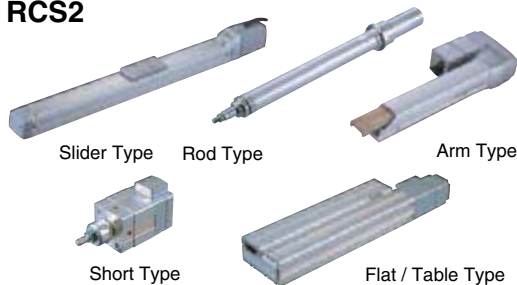
RCP3 Slider Type

RCP3 Table Type

	Slider Type								Rod Type				Table Type (RCP3)
	Separate Motor Unit Type (RCP3)				Standard Type				Rod Type				
Model	SA3	SA4	SA5	SA6	SA5	SA6	SS/SA7	SS/HS8	RA2	RA3	RA4	RA6	TA5/6/7
max. Stroke (mm)	300	400	500	600	500	600	800	1000	100	200	300	300	200
max. Payload (kg)	3	6	10	10	8	12	40	55	7	30	40	55	10
max. Vertical Payload (kg)	1,5	3	4	4	4,5	6	15	20	2,5	10	19	26	4
max. Speed (mm/sec)	300	500	600	600	600	600	600	1200	25	187	458	450	600

High Constant Speed and Precision (230 VAC)

RCS2



Slider Type

Rod Type

Arm Type

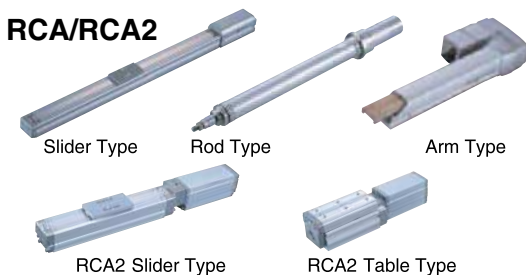
Short Type

Flat / Table Type

	Slider Type						Rod Type			Arm Type
	SA4	SA5	SA6	SS/SA7	SS/SA8	RA7	RA4	RA5		
Model	SA4	SA5	SA6	SS/SA7	SS/SA8	RA7	RA4	RA5	A4/5/6R	
max. Stroke (mm)	300	500	600	800	1000	300	300	300	200	
max. Horizontal Payload (kg)	8	12	18	40	60	40	18	60	-	
max. Vertical Payload (kg)	4,5	4	6	12	12	19,5	6,5	18	6	
max. Speed (mm/sec)	665	800	800	800	1000	800	600	800	400	

High Constant Speed and Precision (24 VDC)

RCA/RCA2



Slider Type

Rod Type

Arm Type

RCA2 Slider Type

RCA2 Table Type

	Slider Type						Rod Type	Arm Type	Table Type (RCA2)		
	Separate Motor Unit Type (RCA2)			Standard Type							
Model	SA3	SA4	SA5	SA6	SA4	SA5	SA6	RA3	RA4	A4R/5R/6R	TA5/6/7
max. Stroke (mm)	300	400	500	600	400	500	600	200	300	200	200
max. Payload (kg)	3	6	9	10	8	12	18	18	18	-	8
max. vertical Payload (kg)	1,5	3	3	4	4,5	4	6	6,5	6,5	6	4
max. Speed (mm/sec)	300	500	600	600	665	800	800	500	600	400	600



IAI's Intelligent Actuators are designed to provide you with the largest array of choices for high precision performance and exceptional reliability

Customers who used to build their own actuators using component parts from a variety of manufacturers are realising the benefits of purchasing a fully-integrated system from one manufacturer. The vast experience of IAI ensures the system will work first time.

- High repeatability up to +/-0.01mm (ISPA)
- Long stroke of 3000 mm with ballscrew thanks to unique mid-support mechanism
- Variety of models suitable for ISO class 4 cleanroom environment
- Strong, light, compact at affordable cost

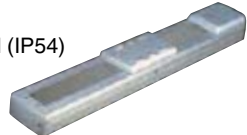


**Intelligent Actuator with Excellent Value for Money
Single-Axis Robot**

ISA/ISPA
Max. Stroke 2500 mm with Ballscrew



ISDA / ISPDA
IS(P)A with Dust Shield (IP54)



NS
Max. Speed 2400 mm/sec with Motor integrated Slider



IF
Ideal for High Speed Longstroke Transfer



FS
Belt Driven up to 3000 mm stroke



RS
High Precision Rotary Positioning



ISA/ISPA

Model	Standard Type				Dust-Proof Type		
	IS(P)A-S	IS(P)A-M	IS(P)A-L	IS(P)A-W	IS(P)DA-S	IS(P)DA-M	IS(P)DA-L
max. Stroke (mm)	600	1000	1200	2500	600	1600	1600
max. Horizontal Payload (kg)	50	80	80	150	50	80	80
max. Vertical Payload (kg)	14	19	39	60	14	19	19
max. Speed (mm/sec)	800	1500	2000	2000	800	1000	1000

NS

Model	Horizontal Type			Vertical Type	
	LXMS	LXMM	LXMXS	LZMS	LZMM
max. Stroke (mm)	2200	2250	3000	1000	950
max. Horizontal Payload (kg)	80	80	80	-	-
max. Vertical Payload (kg)	-	-	-	16	16
max. Speed (mm/sec)	2400	2400	2400	1000	1000

IF/FS/RS

Model	Belt Driven Type			Rotary
	IF-SA	IF-MA	FS	RS
max. Stroke (mm)	2000	2500	3000	0-360°
max. Horizontal Payload (kg)	10	40	40	-
max. Vertical Payload (kg)	-	-	-	-
max. Speed (mm/sec)	1750	1750	2000	180-360°/s



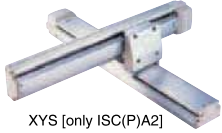
2-/3-/4-/6-axis Systems

Drastically Reduce Your Engineering Time & Costs!

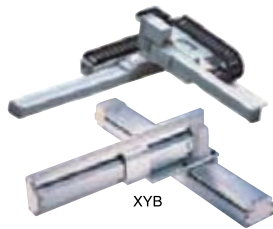
Cartesian Cylinder & Robot

IK2 & ICS(P)A2

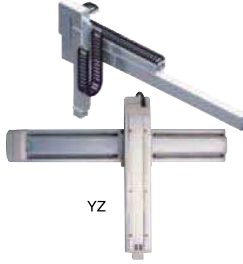
Quickly applicable 2-axes combination



XY [only ICS(P)A2]



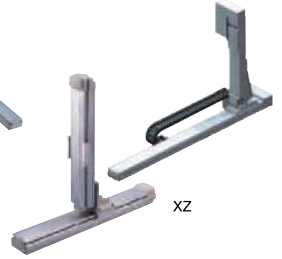
XYB



YZ



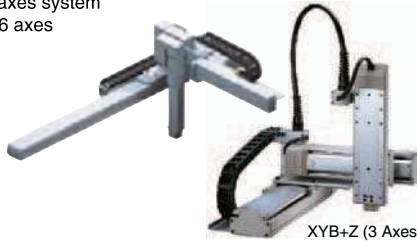
XYG [only ICS(P)A2]



XZ

IK3 & ICS(P)A3/A4/A6

Multi-axes system up to 6 axes



XYB+Z (3 Axes)



4 Axes

Series	IK	ICSA/ICSPA
max. Stroke X/Y (mm)	1000/400	2500/1200 (3000/700; 4155/400)*
max. Payload 2-/3-Axis-System (kg)	24/4	40/19 (40/19; 21/11)*
max. Speed X/Y (mm/s)	1000/1000	1000/1000 (2400/1200; 2500/1200)*

* High-speed types with x-axis of NS or LSA series (see page 8 and 10) are alternatively available to the standard x-axis, too.



Horizontal Articulated Robot

Complex and Demanding Operations can be Programmed Easily Using SEL Language

SCARA Robot

IX

4 Types and 9 overall sizes of SCARA Robots, suitable for Conveyor Tracking



120/150/180

250/350

500/600/
700/800

Arm Length (mm)	120/150/ 180	250	350	500	600	700	800
Z-Axis / Stroke (mm)	50	150		200/300		200/400	
Payload (kg/Rated/Max.)	0,2/1	1/3		2/10		5/20	
Type	- Standard Type	- Standard Type - High Speed Type - Ceiling Mount Type		- Standard Type - Wall Mount Type		- Standard Type - Wall Mount Type	



Clean Room Compliant

Clean Room Compliant Type from Single Axis to Horizontal Articulated Robot

Clean Room Compliant

ISDA-CR/ISPD-CR

ISO Cleanliness Class 4, also with Electrostatics Protection



RCP2-CR

with 24 VDC pulse motor



RCA-CR

with 24 VDC servo motor



RCS2-CR

with 230 VAC servo motor



IX-NNC

SCARA for ISO Class 4 Environment



120/150/180

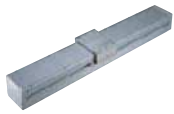
250/350

500/600/700/800

Model	RCP2-CR	RCA-CR	RCS2-CR	IS(P)DA-CR	IX-NNC
max. Stroke (mm)	1000	600	1000	2500	(Arm Length) 120/150/180/ 250/350/500 600/700/800
max. Payload (kg)	55	18	60	150	20
max. Speed (mm/sec)	1200	800	1000	2000	7121



Dust-/ Waterproof Axes and Robots
Dump Room Compliant



ISWA/ISPWA



RCP2W



RCP2W



RCAW/RCS2W

- Protection Grade IP54, IP65 and IP67

IX-NNW



250/350



500/600/700/800

Type	RCP2-W-SA16	RCP2-W-RA4/6	RCP2-W-RA10	RCA-W-RA	RCS2-W-RA	IS(P)WA	IX-NNW
Arm Length	600	300	300	300	300	1200	(Arm Length) 250/350/500 600/700/800
Z-Axis / Stroke (mm)	35	55	300	18	18	70	20
Payload (kg/Rated/Max.)	180	450	250	600	600	1000	7121



Ultra-Compact Actuator with 2-phase Pulse Motor



- Built-in precision linear guide for high moment loads

Type	TX-20	TX-28	TX-35
Stroke (mm)	25-50	25-100	50-300



High Speed Linear Servo Actuator with Linear Motor



- Strong Performance for Low Cost Price
- High Symmetrical Speed
- No Backlash

Stroke (mm)	Positioning Repeatability	Acceleration/Speed	Payload	Push Force
40-4000 mm	±5 µm	max. 3 G/2500 mm/s	3-120 kg	15-400 N



TableTop Robot with integrated X-SEL Controller



- Gantry or Cantilever Type with 2 or 3 Axes

Type	TT-A2	TT-C2	TT-A3	TT-C3
Work Envelope (mm)	X: 200/400 Y: 200/400 Z: -		X: 200/400 Y: 200/400 Z: 50/100	

Controller

From Positioner to Intelligent Programmable Controller Capable of Networking with Upper System

Simply and user-friendly SEL language makes complex programming very easy



X-SEL - KE/KET(X)*

X-SEL

- Peripheral devices can be operated by user I/O without using PLC
- Multi-Tasking, Multi-Axis Controller up to 4 Axes (X-SEL-P/Q: 6 Axes)
- Incremental or Absolute Encoder
- Global-Versions X-SEL-KET and X-SEL-Q according to safety category 4 (ISO 13489-1)



X-SEL - P/Q(X)*

*Type appendix "X": SCARA-Robot Controller

Compact 2-Axes Controller

P-SEL/A-SEL/S-SEL

- Similar functionality like X-SEL, but only controllable up to 2 Axes
- 1500 Positions
- Interface for Profibus, Ethernet, CC-Link, DeviceNet



S-SEL

(-> RCS2, 1-/2-axis actuators)



P-SEL

(-> RCP2, RCP3)



A-SEL

(-> RCA, RCA2, RCL)

Flexible 1-Axis Positioner Controller

P-/A-/S-CON

- No programming necessary, only feeding position signal (max. 512 positions)
- Multi-Tasking and low cost price
- 4 controller types selectable: Positioner, Solenoid valve, Pulse-train control and serial communication



P-CON

(-> RCP2, RCP3)



A-CON

(-> RCA, RCA2, RCL)



S-CON

(-> RCS2, 1-axis actuators)

Lean Network Controller

RoboNet

- Direct coupling to fieldbus network
- Space-saving DIN rail installation
- 768 positions



R-PCON/R-ACON

(-> RCP2, RCP3, RCA, RCA2, RCL)

S-/X-SEL

Multi-Axis Controller

New S-/X-SEL Controller in Combination with SEL Language Simplifies Complicated Programming Tasks and Improves Performance Even Further!

- ◆ Increased memory capacity of 2,000/6,000/9,999 steps and 1,500/3,000/20,000 positions
- ◆ Absolute encoder option Incremental and absolute encoder option available
- ◆ Easy to service
- ◆ 2-axis synchronised control is possible



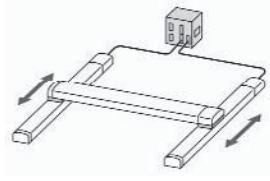
S-SEL:
up to 2 Axes, 1500 Pos.



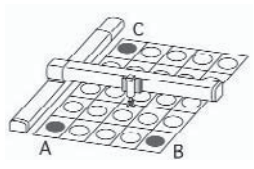
X-SEL-KE/KET:
up to 4 Axes, 3000 Pos.



X-SEL-P/Q:
up to 6 Axes, 20000 Pos.

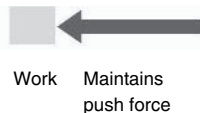


- ◆ Many new commands for palletising control, arch motion and spline



- ◆ Push movement and zone signal are included

Push Movement



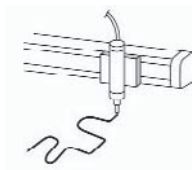
Work Maintains push force

Zone Signal



Signal outputs when entered into zone.

- ◆ Increased PATH speed and accuracy



- ◆ More variables and symbol definition

- ◆ Enhanced safety features and CE certification

- ◆ Debug functionality

S-CON

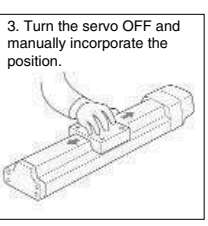
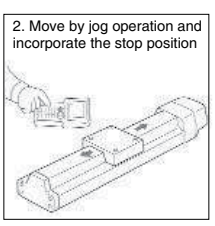
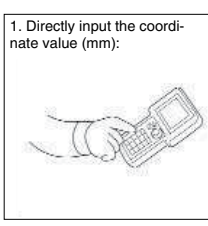
Single Axis Positioner

Economical, Easy to Use, Single-Axis Positioner!

- ◆ Operates RC, IA and LSA Servo Axes (also usable in pulse train mode).

Stroke 100~4000mm	Motor Output 20W~750W	Max. Speed 2500mm/sec	Max. Payload Horizontal 150kg	Max. Payload Vertical 60kg
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- ◆ Maximum 512 points of positioning is possible with ease.



- ◆ Incremental · absolute options are possible.



S-CON: 512 Pos.

- ◆ Multiple functions

S-CON-Function Pitch Transfer	S-CON-Function Hold	S-CON-Function Zone Output	
S-CON-Function Acceleration only MAX	S-CON-Function Positioning width	S-CON-Function Speed change	S-CON-Function Serial communication

- ◆ S-CON corresponds to various field networking capabilities like Profibus, DeviceNet or CC-Link.



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