

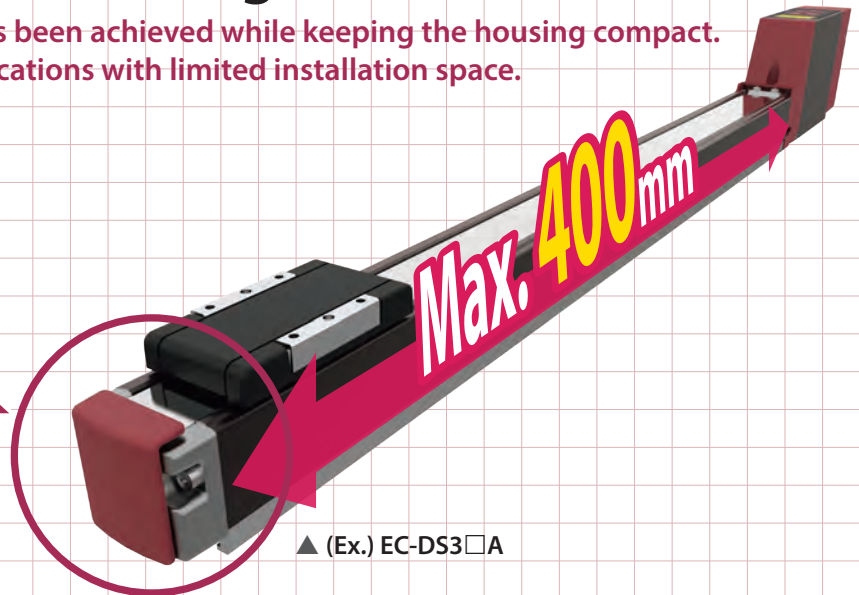
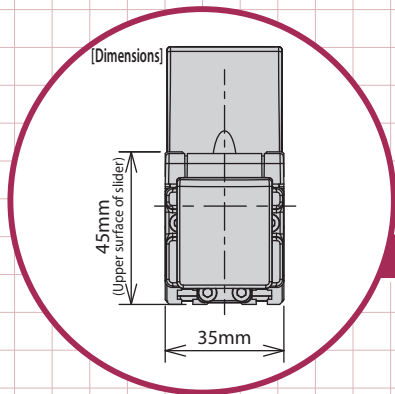
EC Slider type ELECYLINDER **Long stroke supported**

Feature

1

Compact with long stroke

Longer stroke has been achieved while keeping the housing compact. Usable even in locations with limited installation space.

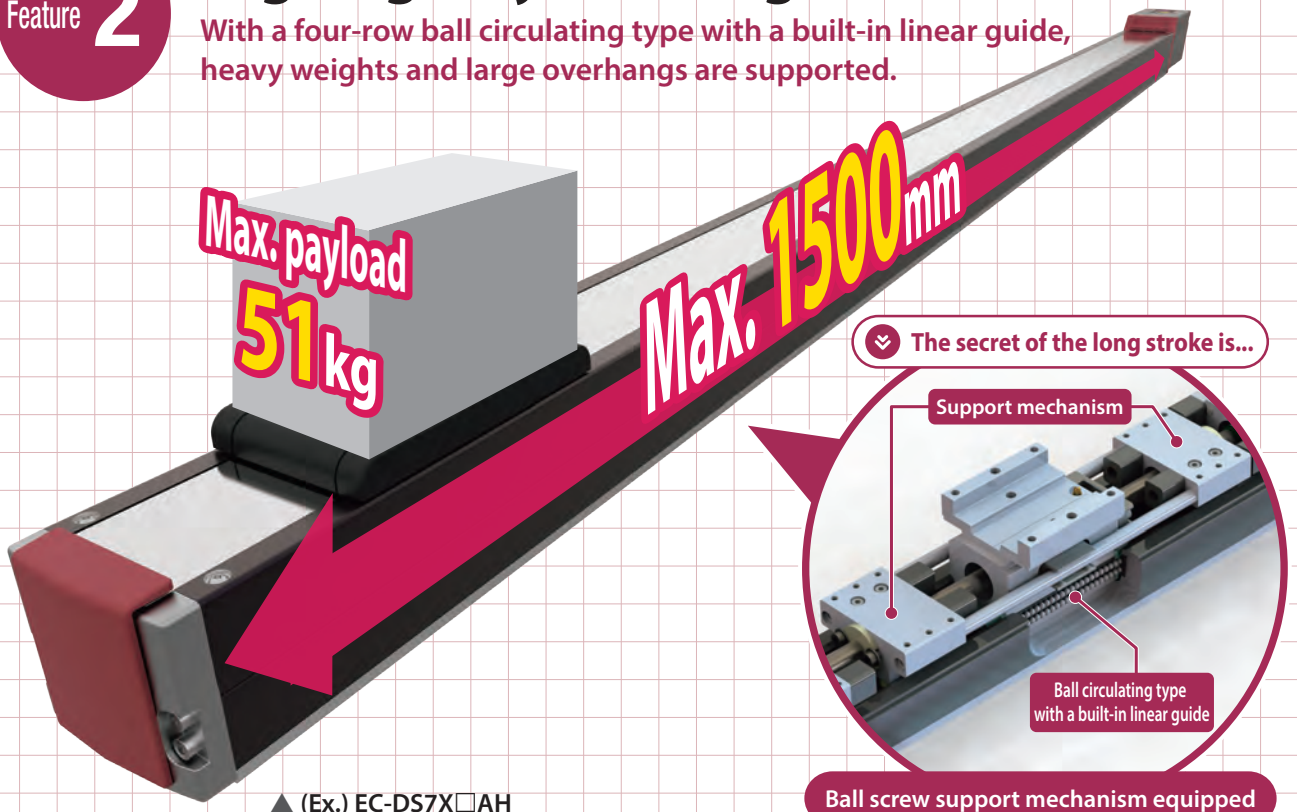


Feature

2

High rigidity and long stroke

With a four-row ball circulating type with a built-in linear guide, heavy weights and large overhangs are supported.



Feature

3

All models compatible with digital speed controllers

Simply select and enter numbers. It just works!

Because the setting conditions can be grasped numerically, adjustment after startup is also simple.

Easy setting	
Level	Speed (V)
Forward (F)	10
Backward (B)	8

Easy setup
(10 levels)

AVD settings			
%	A	V	D
F	30	70	20
B	80	100	50

AVD (acceleration/
velocity/deceleration)

Cycle time	
	Time (S)
Forward (F)	0.7
Backward (B)	1.2

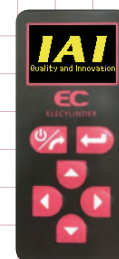
Cycle time display



Possible with digital speed controller

- Basic settings (position, acceleration, speed, deceleration)
- Present position upload · Test runs
- Jogging · Brake release
- Motor power ON/OFF
- Cycle time confirmation
- Error display · Alarm reset

Digital speed controller

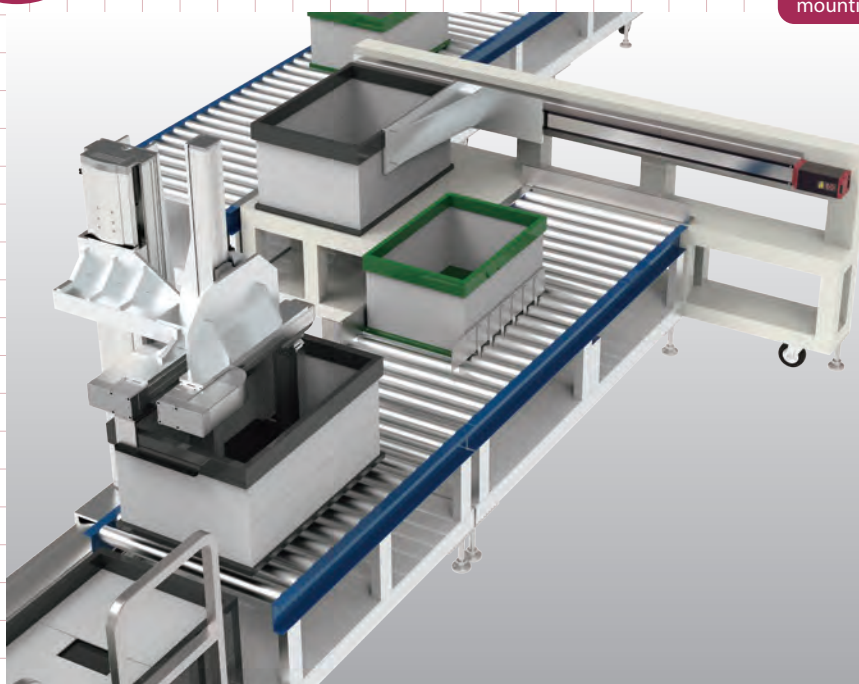


Feature

4

Unlimited installation orientation

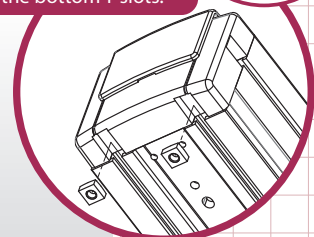
The long-stroke model remains available for vertical, horizontal, and ceiling mounting.



▲ Side mounting example (container assembly/transfer equipment)



Fixing nut holders are included with the square nuts for mounting the bottom T-slots.



Video here



Long stroke slider type ELECYLINDER product page to view the demo video:

Model Specification Items

ELECYLINDER® Slider Type

EC - [] [] [] **A** - [] - [] - []

Series Digital speed controller Type Lead Specifications Stroke Power I/O cable length Options

Left blank	Without digital speed controller						Left blank	Incremental encoder specification NPN specification, no options
D	With digital speed controller			A			ACR	RCON-EC connection specification*1
							B	With brake
							FT	Foot bracket
S3		S3	Slider 35mm width				G1/G5	Designated grease specification*2
S4			Slider 44mm width				MOB	Motor mounting direction change (bottom)*3
S6			Slider 63mm width				MOL	Motor mounting direction change (left)*3
S7			Slider 73mm width				MOR	Motor mounting direction change (right)*3
							MOT	Motor mounting direction change (top)*3
							NM	Non-motor end specification
							PN	PNP specification*1
							SR	Slider part roller specification
							TMD2	Split motor and controller power supply specification*1
							W	Double slider specification**4
							WA	Battery-less absolute encoder specification
							WL	Wireless communication specification
							WL2	Wireless axis operation specification

0 Without cable
Power I/O connector included (Note)

(S)1 1 m
? ?
(S)10 10 m (every 1m)

(S): 4-way connector cable
(Note): A power I/O connector is not included if RCON-EC connection specification (ACR) is selected

<(D)S3□A>

L	Lead 2mm
M	Lead 4mm
H	Lead 6mm

<(D)S4□A>

L	Lead 2.5mm
M	Lead 5mm
H	Lead 10mm
S	Lead 16mm

<(D)S6□A>

L	Lead 3mm
M	Lead 6mm
H	Lead 12mm
S	Lead 20mm

<(D)S7□A>

L	Lead 4mm
M	Lead 8mm
H	Lead 16mm
S	Lead 24mm

<(D)S3□A>

200	200mm
? ?	
400	400mm

<(D)S4□A>

250	250mm
? ?	
500	500mm

<(D)S6□A>

250	250mm
? ?	
800	800mm

<(D)S7□A>

350	350mm
? ?	
800	800mm

(every 50mm)

*1 "PN" and "TMD2" cannot be selected if "ACR" is selected.
*2 "G1/G5" and "W" cannot be used together.
*3 Available only for S3/S4 types. Be sure to select one of the codes.
*4 Available only for S6/S7 types.

ELECYLINDER® High Rigidity Slider Type

EC - [] [] [] **AH** - [] - [] - []

Series Digital speed controller Type Lead Specifications Stroke Power I/O cable length Options

Left blank	Without digital speed controller						Left blank	Incremental encoder specification NPN specification, no options
D	With digital speed controller						ACR	RCON-EC connection specification*1
							B	With brake
							G5	Designated grease specification
S6X			Slider 63mm width (with support mechanism)				NM	Non-motor end specification
S7X			Slider 75mm width (with support mechanism)				PN	PNP specification*1
							SR	Slider part roller specification
							TMD2	Split motor and controller power supply specification*1
							WA	Battery-less absolute encoder specification
							WL	Wireless communication specification
							WL2	Wireless axis operation specification

0 Without cable
Power I/O connector included (Note)

(S)1 1 m
? ?
(S)10 10 m (every 1m)

(S): 4-way connector cable
(Note): A power I/O connector is not included if RCON-EC connection specification (ACR) is selected

<(D)S6X□AH> <(D)S7X□AH>

Lead L	450	450mm	550	550mm
	? ?		? ?	
	1000	1000mm	1100	1100mm

Lead M Lead M/H/S

450	450mm	550	550mm
? ?		? ?	
1400	1400mm	1500	1500mm

Lead H/S (every 50mm)

450	450mm
? ?	
1500	1500mm

<(D)S6X□AH>

L	Lead 3mm
M	Lead 6mm
H	Lead 12mm
S	Lead 20mm

<(D)S7X□AH>

L	Lead 4mm
M	Lead 8mm
H	Lead 16mm
S	Lead 24mm

AH High rigidity

*1 "PN" and "TMD2" cannot be selected if "ACR" is selected.

Specification Tables

Type	Lead		Stroke (mm) and max speed (mm/s)													Max. payload (kg)		Reference page																																														
	Model	mm	*Length of band = Stroke, * Numbers in band = Maximum speed by stroke, Numbers in < > are for vertical specification													Horizontal	Vertical																																															
			200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400				1500																																													
(D)S3□A	H	6	420																3.5	1.5	P7																																											
	M	4	280																6	2.5																																												
	L	2	140																9	3.5																																												
(D)S4□A	S	16	800																7	1.5	P13																																											
	H	10	700			600													12	2.5																																												
	M	5	350			300													15	5																																												
	L	2.5	175			<150>	150													18		6.5																																										
(D)S6□A	S	20	800			700			620													15	1	P19																																								
	H	12	700			560			500			430			380			330			26	2.5																																										
	M	6	450			410			340			290			250			210			180				160			32	6																																			
	L	3	225			200			170			140			120			105			90				40	12.5																																						
(D)S7□A	S	24	860																37	3	P25																																											
	H	16	700			620			550													46	8																																									
	M	8	420			410			350			305			275													51	16																																			
	L	4	210			<175>			190			<175>			170			145				125			51	19																																						
(D)S6X□AH	S	20	1280			<1120>			1120			970			940			860			790			730			640			610			580			540			470			450			430			400			15	1												
	H	12	900			<800>			860			<800>			770			680			620			560			510			460			425			380			360			330			315			285			270			250			235			220			26	2.5
	M	6	450			430			380			340			310			280			255			230			210			185			175			165			140			135			125			115			32	6												
	L	3	225			210			190			165			145			135			125			115																40	16																							
(D)S7X□AH	S	24	1230			<1080>			1160			<1080>			1080			990			920			850			770			735			680			635			565			550			37	3																		
	H	16	980			<840>			920			<840>			835			760			700			645			590			555			510			470			440			420			375			355			46	8												
	M	8	420			375			345			310			285			255			245			230			215			190			180			170																51	16											
	L	4	195			<175>			175			165			150																51	25																																

© For 200mm stroke and lower slider types, refer to the IAI General Catalog 2021, Volume 2.

Energy-Saving Setting

For ELECYLINDER®, parameter No. 8 enables selecting enabled/disabled for the energy-saving setting.

When enabled, the power capacity can be reduced by up to 40% compared to when the setting is disabled.

Elsewhere, the maximum speed, acceleration/deceleration, and payload will be lower than with the setting disabled.

When disabled, the maximum speed, acceleration/deceleration, and payload will be higher than with the setting enabled.

Refer to the "Table of Payload by Speed/Acceleration" and "Stroke and Max. Speed" on each product specification page for more details.

The energy-saving setting is disabled at shipping.

Mode	Parameter name/notation	Features
Power mode	Energy-saving setting disabled	High specs
Energy-saving mode	Energy-saving setting enabled	High energy-saving effect

Setting at shipping