

**Believe it:
A built-in controller at this size!**

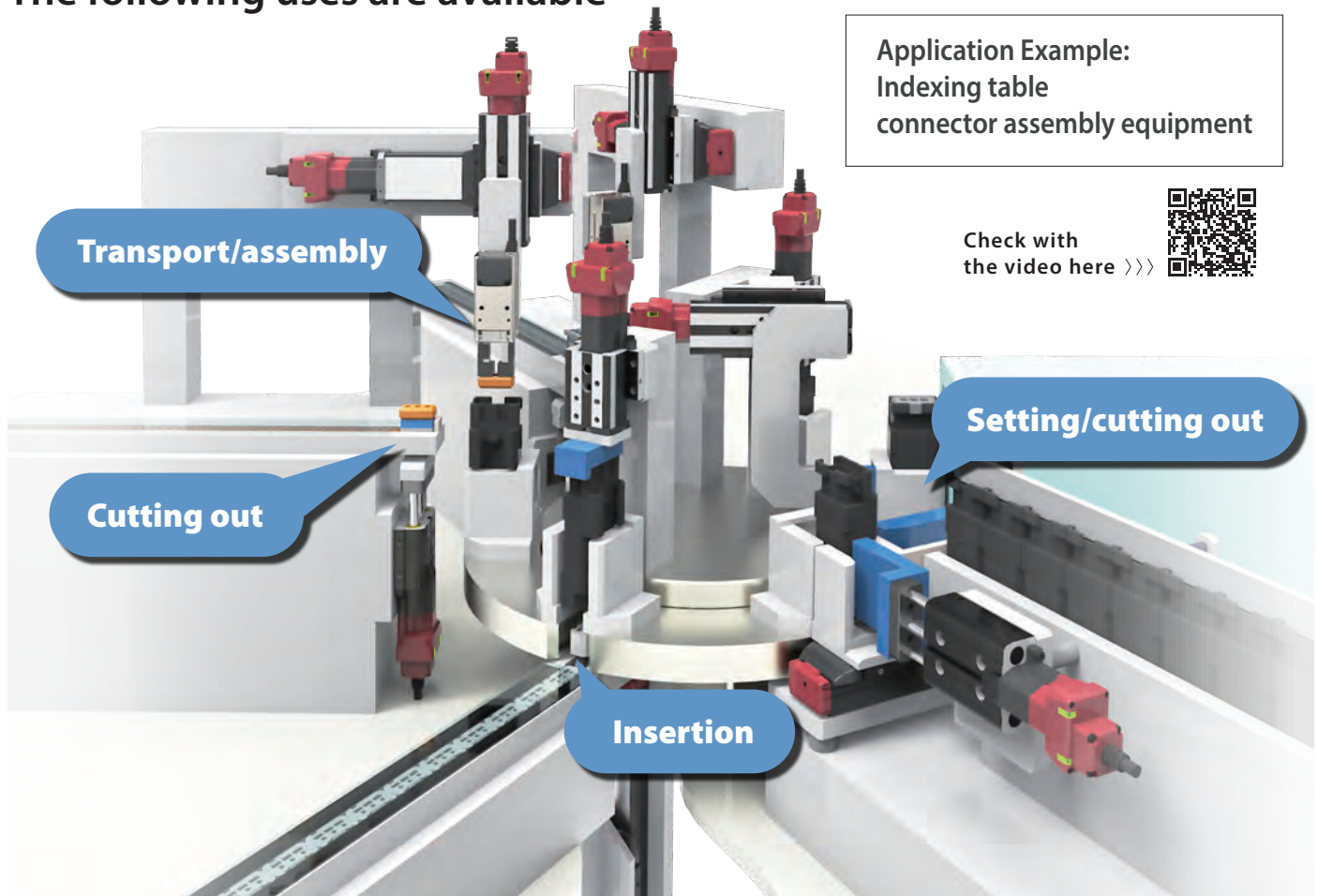


EC
ELECYLINDER

Ultra-Mini ELECYLINDER®

EC-T3

The following uses are available



Application Example:
Indexing table
connector assembly equipment

Check with
the video here >>>



Select from three types according to the application

Type	Slider	Rod	Table
Products	EC-SL3 	EC-GDS3/GDB3 	EC-T3
Max. speed	200 mm/s	200 mm/s	200 mm/s
Max. push force	16N	17N	17N
Max. payload [Horizontal/vertical]	2 kg/0.7 kg	2 kg/0.8 kg	2 kg/0.8 kg

*Vertical only for GDS3

The **Ultra-Mini ELECYLINDER** resolves all kinds of small air cylinder problems!



Problem Speed adjustment is difficult with small cylinders...

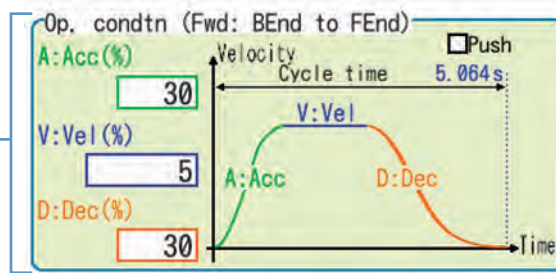
Problem solved!



ELECYLINDER speed can be **set easily**, at any value needed, from low speed to high-speed operation



Teaching pendant (TB-03)



Speed can be set with numbers from 1% (low speed) to 100% (high speed), enabling the same motion regardless of the operator.

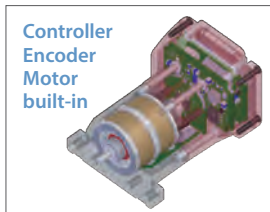


Problem Water builds up too fast in the drain...

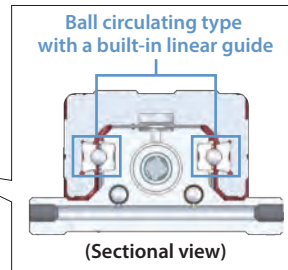
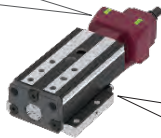
Problem solved!



The **ELECYLINDER** is electric and thus **airless**. What's more, it is an **all-in-one** machine with controller and guide built-in



Controller
Encoder
Motor
built-in



Ball circulating type
with a built-in linear guide

(Sectional view)



Design is easy with all the necessary components already assembled.

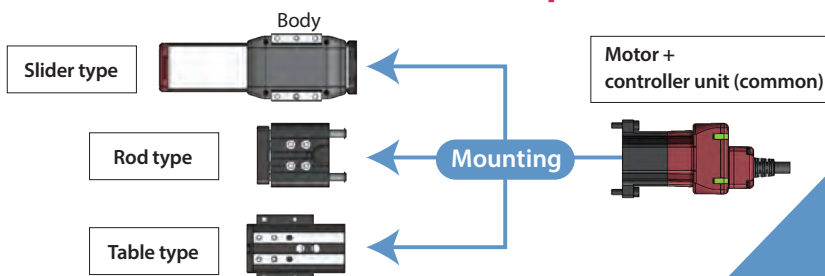


Problem The whole cylinder has to be replaced when the packing or stopper breaks...

Problem solved!



The **Ultra-Mini ELECYLINDER** has a life of **five million cycles** (For vertical mounting). What's more, **maintenance is simple**



Modular structure makes replacement easy.



Introducing the functions made possible by **ELECYLINDER**

◆ Status shown by body LEDs

LEDs on the body clarify the operation status.

With forward end/backward end display added, the status is clear at a glance.

	LED left	LED right	Color	Operation status
Servo ON	●	●	Orange	Initializing at power ON
Backward end	×	×	—	Power OFF
	★	×	Green	Servo OFF
Alarm	×	●	Green	Wirelessly connected
	●	×	Orange	Servo ON
Alarm	×	×	Orange	Backward end [LS0]*
	×	●	Orange	Forward end [LS1]*
	×	●	Red	Alarm
	×	●	Red	Stopped for emergency

●: Lit ×: Off ★: Blinking *Display is possible with parameter switching

◆ Simple operation with wireless connection

The teaching pendant (TB-03) can be connected wirelessly to an ELECYLINDER within a 5m radius.

This enables status confirmation, position/speed setting, test runs and so on.



◆ Multi-axis control and network connection with RCON-EC connection specification

Use of the ELECYLINDER dedicated drive unit REC enables connection with up to 16 axes, reducing wiring and saving control panel space.



Supported field networks



For the RCON-EC connection specification, see the [R-unit catalog](#)

Catalog data is here



Model Specification Items

ELECYLINDER®

EC - [] - [] - [] - [] - [] - ([])

Series Type Lead Stroke Actuator cable length Power I/O cable connector length Options

SL3	Slider type (base width 32mm)	L	Lead 2mm	1	1m	Left blank	NPN specification (interface box connection), no options
GDS3	Rod type with rolling bushing (width 42mm)	M	Lead 4mm	?	?	ACR	RCON-EC connection specification (Note 2) (Note 3)
GDB3	Rod type with ball bearing (width 42mm)	(Note) Only lead 2 is available for GDS3.		10	10m	B	Brake specification
T3	Table type (table width 32mm)	<SL3>		(Note) When using the interface box, 9m is the maximum available.		CJB	Cable exit direction specification (bottom)
		50	50mm	0	No cable Power / I/O connector included (Note 1)	CJL	Cable exit direction specification (left)
		?	?	(S)1	1m	CJR	Cable exit direction specification (right)
		200	200mm	?	?	CJT	Cable exit direction specification (top)
		(every 25mm)		(S)9	9m	NM	Non-motor end specification
		<GDS3>		(every 1m)		PN	PNP specification (interface box connection) (Note 2)
		10	10mm	(S) 4-way connector cable		TMD2	Split motor and controller power specification (interface box connection) (Note 2)
		?	?	(Note) Make sure that the total length along with the actuator cable is 10m or less.		WL	Wireless communication specification (interface box connection) (Note 3)
		30	30mm	(Note 1) When selecting RCON-EC connection specification (ACR), select "0." Power / I/O connector is not included.		WL2	Wireless communication axis operation specification (interface box connection) (Note 3)
		(every 10mm)					
		<GDB3>					
		10	10mm				
		?	?				
		50	50mm				
		(every 10mm)					
		<T3>					
		10	10mm				
		?	?				
		50	50mm				
		(every 10mm)					

*Please refer to the reference page of each type for details.

Specification Tables

Slider

Product type	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						Horizontal	Vertical		
				50	75	100	125	150	175	200			
Slider	SL3	M-	4	200						1	0.3	P7	
		L-	2	100						2	0.7		

Rod

Product type	Type	Lead		Stroke (mm) and max speed (mm/s)					Max. push force (N)	Max. payload (kg)		Reference Page
		Model	mm	*Length of band = Stroke; *Numbers in band = Maximum speed by stroke						Horizontal	Vertical	
				10	20	30	40	50				
Rod	GDS3	L-	2	100					17	-	0.8	P11
		M-	4	200					10	1	0.4	
	GDB3	L-	2	100					17	2	0.8	P15

Table

Product type	Type	Lead		Stroke (mm) and max speed (mm/s)					Max. push force (N)	Max. payload (kg)		Reference Page
		Model	mm	*Length of band = Stroke; *Numbers in band = Maximum speed by stroke						Horizontal	Vertical	
				10	20	30	40	50				
Table	T3	M-	4	200					10	1	0.4	P19
		L-	2	100					17	2	0.8	