

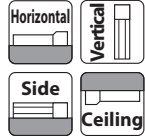
DDA-LH18C

DDACR-LH18C

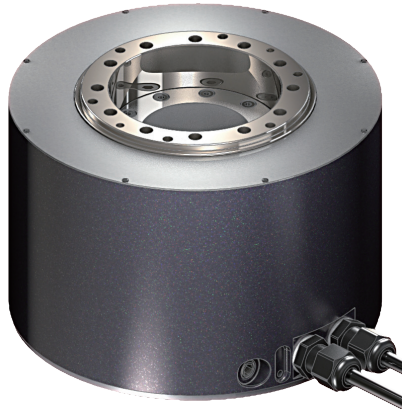
Clean Room Type
Large Bore Type
High Torque Type
Flange-Less Type

Model Specification Items	DDA	DDACR	LH18C		600	360	T2		
	Series	Type	Encoder Type	Motor Type	Operation Range	Applicable Controllers	Cable Length	Options	
	DDA : Standard DDACR : Cleanroom specification	S : Standard (17-bit) P : High resolution (20-bit)	AI : Index absolute type AM : Multi-rotation absolute type	600 : 600W 360 : 360 deg.	T2 : SCON XSEL-P/Q XSEL-R/S Note: Only SCON for LH18CP	N : None S : 3m M : 5m X□□ : Specified length	Please refer to the options table below. * Please make sure to specify either A0 or A1 for the cable exit direction.		

* Controller is not included.



* Please refer to P.16 for more information on the installation method.



	(Note 1) The value in () indicates the maximum speed. The maximum speed may not be reached if the moving distance is short.
	(Note 2) Assuming that the actuator is operated 8 hours a day at the rated speed and smooth operation without shock, the actuator will reach its life in five years based on this load.
	(Note 3) The maximum cable length is 30m. Specify a desired length in meters. (Example: X08 = 8m)
	(Note 4) The index absolute type cannot be used in the pulse-train control and MECHATROLINK III control.
	(Note 5) Note that only the short-cut control is allowed when using XSEL with the index absolute type.

Model/Specifications

Encoder type	Model number	Motor wattage (W)	Operation range (deg.) (*1)	Speed (deg./s) (Note 1)	Rated torque (N·m) (*2)	Maximum instantaneous torque (N·m)	Allowable inertia moment (kg·m ²)	Rotor inertia (kg·m ²)
17-bit index absolute type	DDA (CR)-LH18CS-AI-600-360-T2-①-②	600	0~359.999 deg.	1~800 (1~1,440)	25	75	1.8	0.0092
17-bit multi-rotation absolute type	DDA (CR)-LH18CS-AM-600-360-T2-①-②		±9,999 deg. max.					
20-bit index absolute type	DDA (CR)-LH18CP-AI-600-360-T2-①-②		0~359.999 deg.					
20-bit multi-rotation absolute type	DDA (CR)-LH18CP-AM-600-360-T2-①-②		±2,520 deg. max.					

Legend: ① Cable length ② Option

(*1) SCON and XSEL have different minimum resolutions. Please refer to the instruction manual for more information.
(*2) The value when installed on an IAI rated heat dissipating plate. Please refer to P.16 for more information.

① Cable Length

Cable type	Cable code
Standard	S (3m)
	M (5m)
Specified length	X06 (6m) ~X10 (10m)
	X11 (11m) ~X30 (30m)

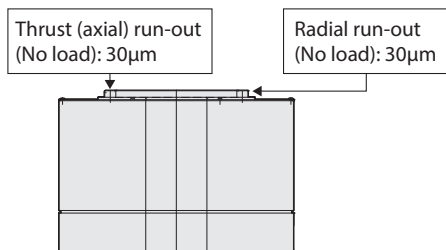
* Please refer to P.18 for more information regarding the maintenance cables.

② Options

Name	Option code
Cable exits from the bottom	A0
Cable exits from the side	A1
Flange	FL

(Note) A0 (cable exits from the bottom) option and FL (flange) option cannot be selected together.

Run-out of Output Shaft



Common Specifications

Item	Description
Drive system	Direct drive motor
Positioning repeatability	17-bit: ±0.0055deg. (±19.8s); 20-bit: ±0.00103deg. (±3.7s)
Indexing accuracy *1	17-bit: ±0.01249deg. (±45s); 20-bit: ±0.00833deg. (±30s)
Allowable load moment (Note 2)	80N·m
Encoder resolution	17-bit: 131,072 pulses/rev. 20-bit: 1,048,576 pulses/rev.
Allowable thrust load (Note 2)	Forward: 3,100N; Reverse: 250N
Base material	Aluminum
Ambient operating temp. & humidity	0~40°C, 20~85% (Non-condensing)
Cleanroom specification	Cleanliness Class 10 (Fed.Std.209D), class 2.5 or equivalent (ISO 14644-1 Standard) Suction amount 35Nℓ/min
Weight	13kg

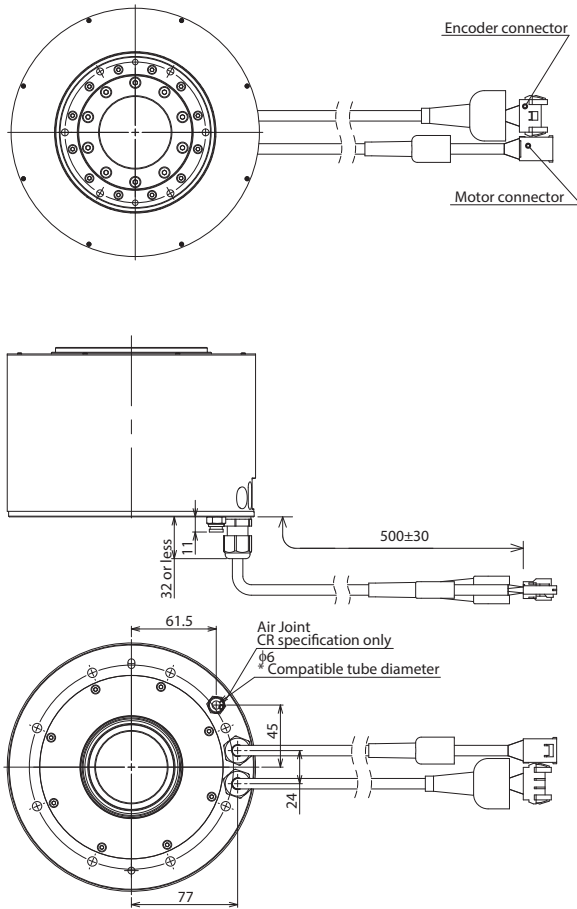
*1 Indexing accuracy is supported when connected to SCON-CB.

Dimensions

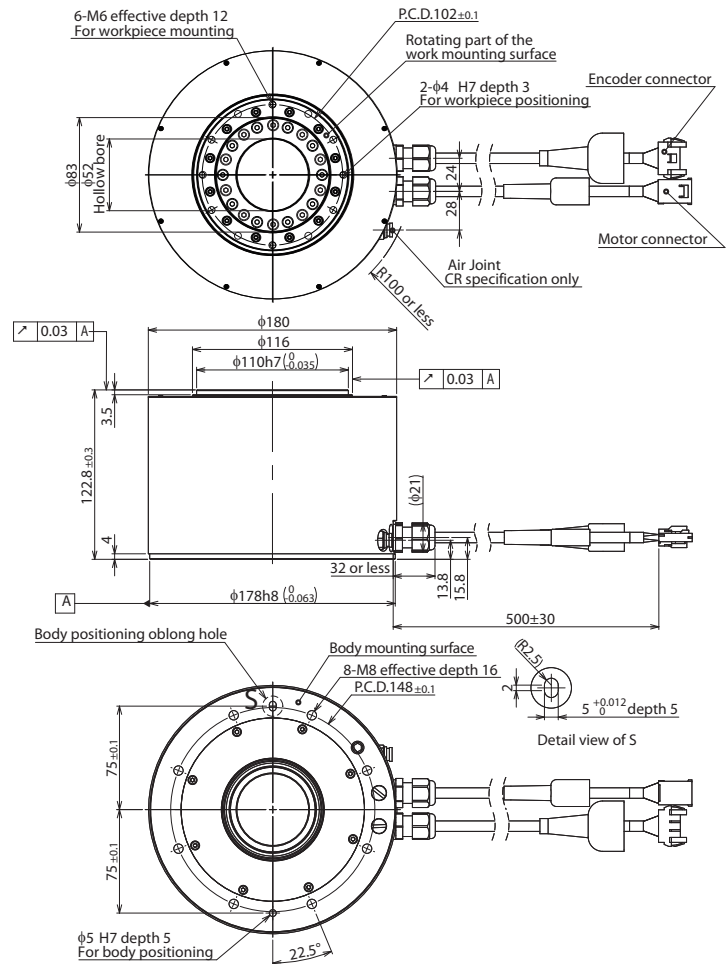
CAD drawings can be downloaded from our website.
www.intelligentactuator.com



Cable exits from the bottom
(Option code: A0)



Cable exits from the side
(Option code: A1)



Applicable Controllers

The DDA series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use.

Name	External view	Max. number of controlled axes	Power supply voltage	Control method				Maximum number of positioning points	Reference page
				Positioner	Pulse-train	Program	Network *Option		
SCON-CB/CGB		1	Single-phase 200VAC	●	●	-	DeviceNet CC-Link CompoNet MECHATROLINK EtherCAT EtherNet/IP	512 (768 for network spec.)	P.14
SCON-LC/LCG		1	Single-phase 200VAC	-	-	●	DeviceNet CC-Link CompoNet MECHATROLINK EtherCAT EtherNet/IP	512 (768 for network spec.)	P.14
XSEL-P/Q/R/S		8	Single-phase 200VAC Three-phase 200VAC	-	-	●	Note: The type of compatible networks will vary depending on the controller. Please refer to reference page for more information.	53,332 (Depending on the type)	P.15

* LH18CP can only be operated by SCON. * Please refer to P.16 for the precautions in selecting controllers.