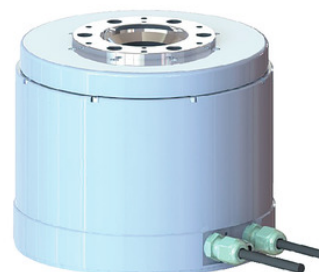


DDW-LH18C□A

Product features

防塵
防滴

Mounting position



[Dimension drawing](#)

[Notes on selection](#)

[adaptive controller](#)

Main specs

Specification 1

Specification 2

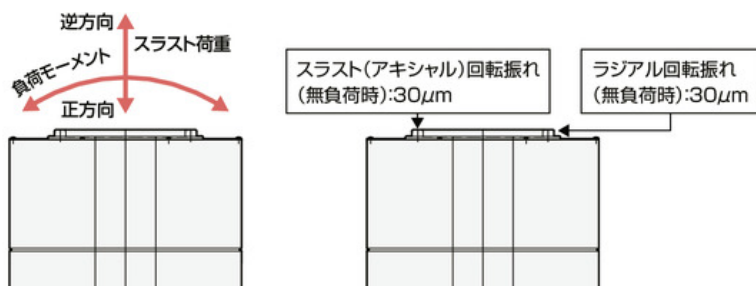
item	Content	
Rated torque (N·m) (Note 2)	12	
Maximum instantaneous torque (N·m)	67	
Speed/acceleration/deceleration (Note 3)	Rated Speed (deg/s)	1080
	Maximum speed (degrees/s)	1440
	Maximum acceleration/deceleration (G)	9.99
air purge	Purge pressure (MPa)	0.02
Operating range	Index type (degrees)	0~359.99
	Multi-rotation absolute type (degrees) (Note 4)	±9999

(Note 2) Characteristics when installed on our rated heat sink. Please see page [1-292](#) for details .

(Note 3) 1G≒9807 degrees/s²






(Note 4) If SCON and high resolution type (20bit) are connected, it will be ±2520.

Rotary type moment direction and output shaft runout



adaptive controller

The actuators on this page can be operated with the following controllers. Please select the type according to your intended use.

name	exterior	Maximum number of connectable axes	Power-supply voltage	positioner	Pulse train	program	
							Domest
RCON		16 (8 for ML3, SSN, ECM)	DC24V three-phase AC200V	-	-	-	
RSEL		8		-	-	●	
SCON-CB/CGB		1	Single phase AC200V	●	●	-	
SCON2-CG		1		●	●	-	
XSEL-P/Q		6	Single phase AC200V Three phase AC200V	-	-	●	
XSEL-RA/SA		8		-	-	●	

(Note) For network abbreviations such as DV and CC, please see page [8-15](#).

(Note) In the case of XSEL-P/Q type three-phase, up to six axes can be controlled.

(Note) The high resolution type cannot be connected to XSEL-P/Q.

(Note) Multi-rotation absolute actuators cannot be connected to RCON-SC. To connect with R-unit (RCON/RSEL), an expansion unit (RCON-EXT) and SCON or SCON2 are required separately.

(Note) Rotary axis index mode cannot be used for EC, ML3, SSN, and ECM with motion network specifications.

(Note) SCON2 ML3 and EC have remote I/O specifications if the controller model does not have function options, and motion network specifications if "M" is selected as the function option.

Overseas standards



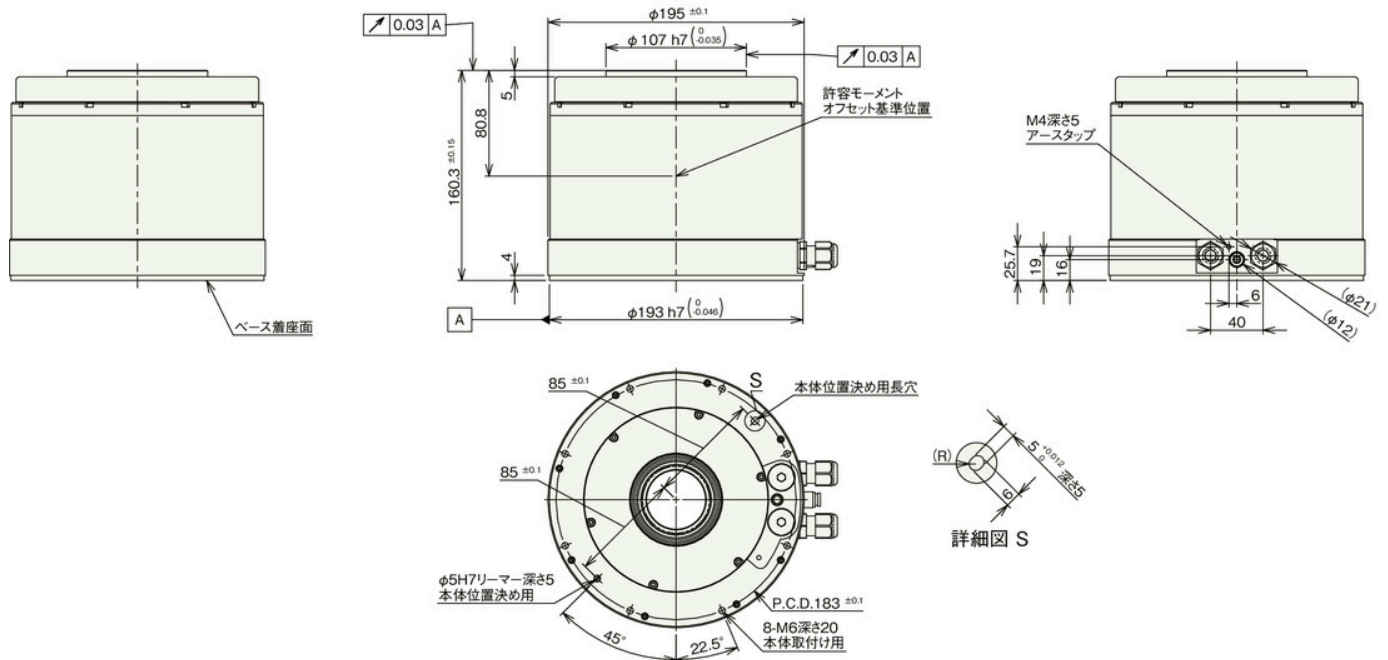
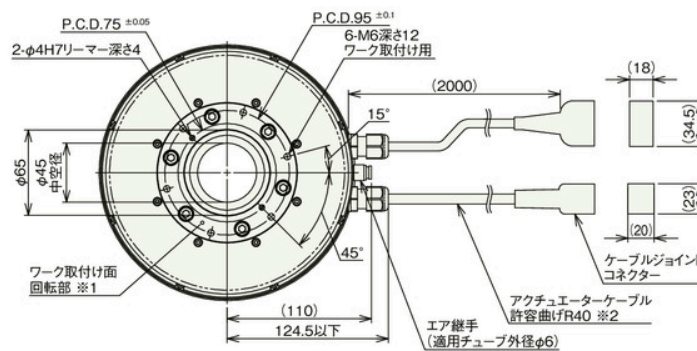
Dimension drawing

CAD図面がホームページよりダウンロード出来ます。
www.iai-robot.co.jp



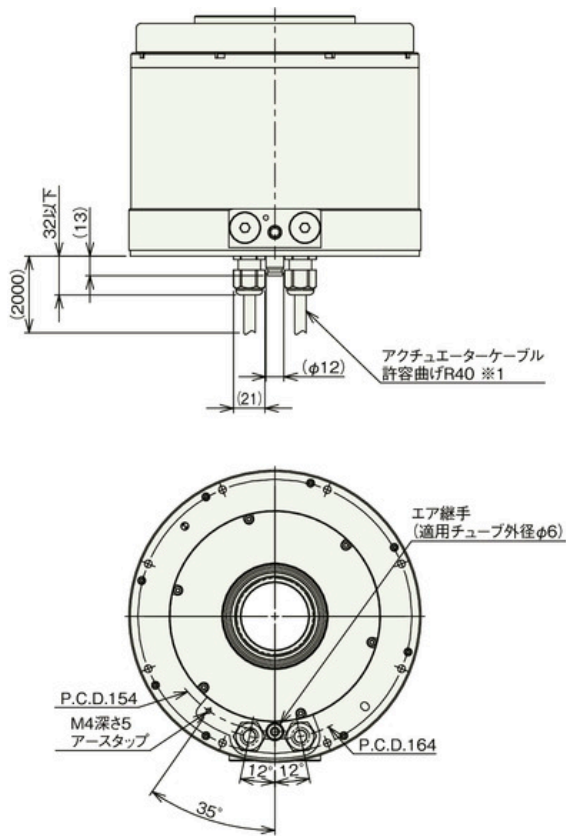
Cable exit from side (option symbol A1)

- *1 The position of the rotating part in the top view is the origin position. An origin position mark sticker is affixed to the origin position as a matching mark.
- *2 The actuator cable is a robot cable.



Cable exit from bottom (option symbol A0)

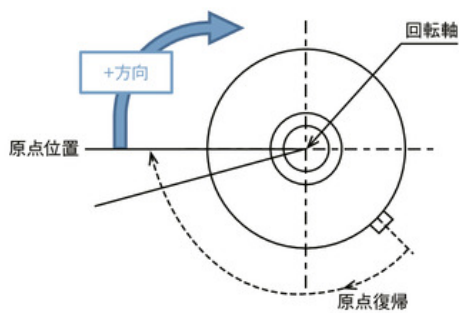
- *1 The actuator cable is a robot cable.



mass

item	Content
mass	18.8kg

Home return method and forward rotation direction



When viewed from the top of the rotating part, clockwise rotation is the + direction.

The return-to-origin operation rotates clockwise.

Detects the origin position and stops.

Characteristics of operation types by controller

Controller type	SCON-CB				RCON		
	index absolute		Multi-rotation absolute		index absolute		Multi-
resolution	Standard (17bit)	High resolution (20bit)	Standard (17bit)	High resolution (20bit)	Standard (17bit)	High resolution (20bit)	Standard (17bit)
Maximum operating range	0~359.999 degrees		±9999 degrees	±2520 degrees	0~359.999 degrees		

Maximum movement amount per movement command	360 degrees	Within the above operating range	360 degrees	
Infinite rotation operation	Possible	Not possible	Possible	
Return to origin during initial operation/ after battery replacement	Unnecessary	need	Unnecessary	
absolute battery	Unnecessary	need	Unnecessary	
pulse train control	Not possible	Possible	Not possible	
Motion network compatible	Not possible	Possible	Not possible	
Interpolation operation	Not possible		Not possible	
synchronized operation	Not possible		Not possible	

The supported operation types and resolutions of this product vary depending on the controller connected. Please check the content supported by each controller before use.

(Note 6) When the XSEL index absolute type moves more than 180 degrees from the current position, it rotates in the direction with the least amount of movement and moves to the target position. Therefore, please note that the direction of rotation will change depending on the current position and amount of movement.

(Note 7) Index absolute type can rotate infinitely in the same direction, but XSEL can move up to 180 degrees at one time, so it rotates continuously in the same direction without stopping like a motor. I can not do it.

Estimated travel time

Load inertia lower limit (kg·m ²)	0	0.005	0.01	0.02	0.02	0.03	0.04	0.06	0.08	0.1	0.15	0.2	0.3	0.4	0.6	0.8	1	1.2
Load inertia upper limit (kg/ m ²)	0.005	0.01	0.015	0.02	0.03	0.04	0.06	0.08	0.1	0.15	0.2	0.3	0.4	0.6	0.8	1	1.2	1.4
45 degree travel time (s)	0.098	0.096	0.096	0.097	0.099	0.104	0.113	0.12	0.126	0.14	0.157	0.207	0.257	0.352	0.447	0.53	0.629	0.795
90 degree movement time (s)	0.129	0.128	0.127	0.128	0.131	0.136	0.144	0.153	0.163	0.184	0.208	0.268	0.329	0.44	0.549	0.646	0.758	0.941
180 degree movement time (s)	0.192	0.19	0.19	0.191	0.193	0.199	0.207	0.215	0.225	0.249	0.279	0.354	0.428	0.562	0.692	0.806	0.933	1.133
270 degree movement time (s)	0.254	0.252	0.252	0.253	0.256	0.262	0.27	0.278	0.288	0.312	0.341	0.42	0.504	0.655	0.8	0.925	1.064	1.274

Travel time varies depending on load inertia. Please check the estimated travel time from the table below.

(Note) The numbers in the table are approximate and do not guarantee travel times.

(Note) The time shown in the table is the time from receiving a movement command until the positioning width converges to 0.028 degrees (approximately 100 degrees seconds).