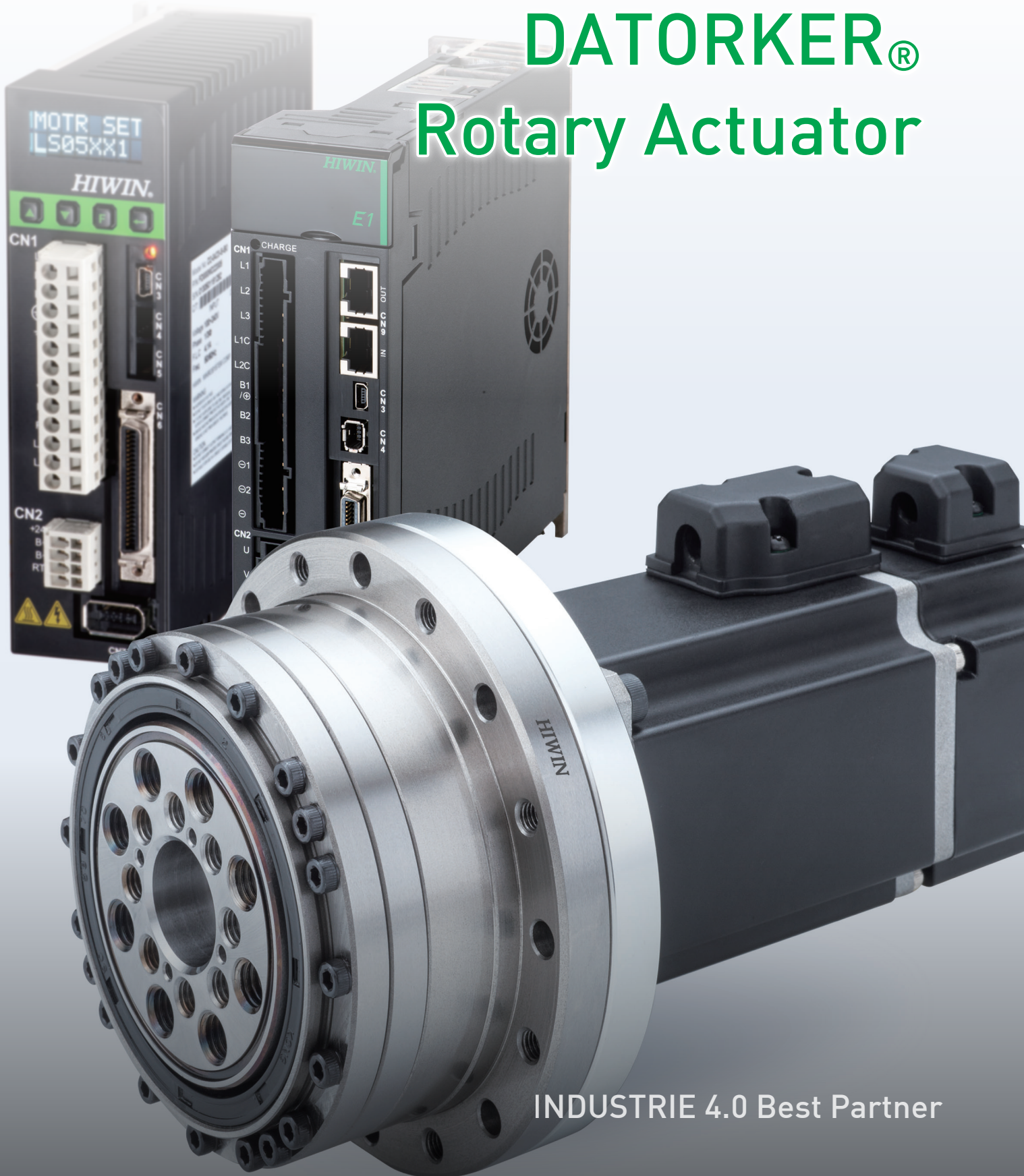


HIWIN®

DATORKER® Rotary Actuator

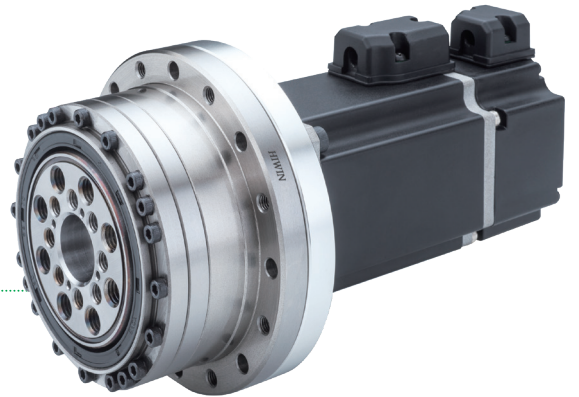
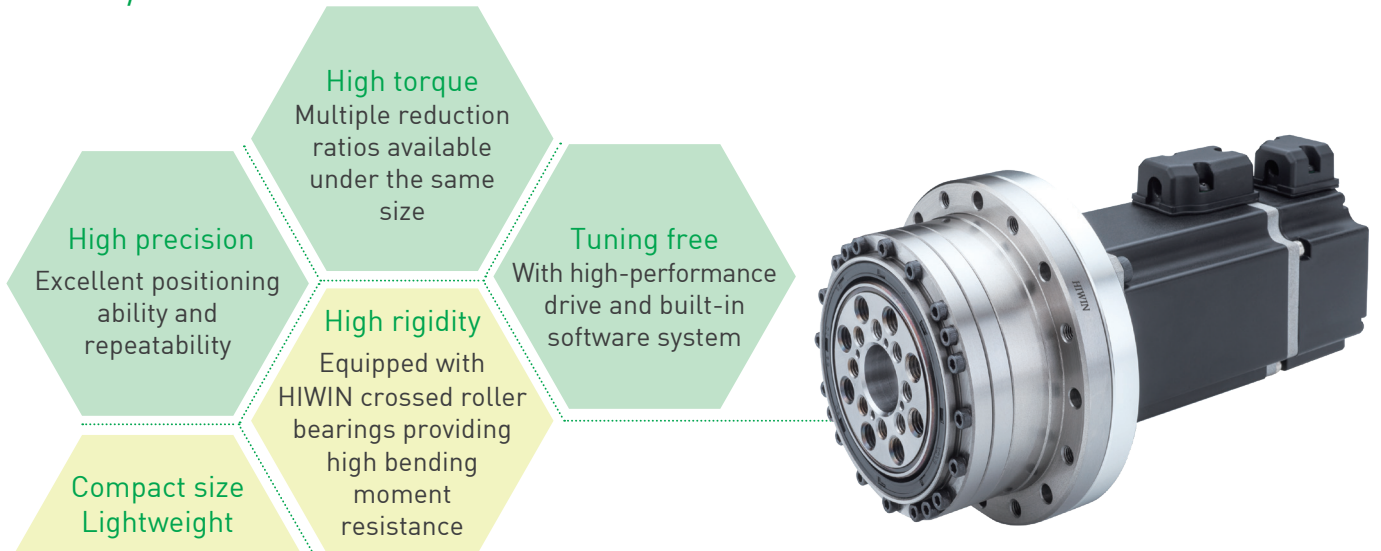


INDUSTRIE 4.0 Best Partner

DATORKER® Rotary Actuator

New generation DATORKER® Rotary Actuator is the best solution for rotary applications. DATORKER® Rotary Actuator is suitable for wide range of applications like: semiconductor, precision laser cutting, 3C electronic automation, PCB industry, sustainable industry, automobile industry or any rotary related applications.

Feature /

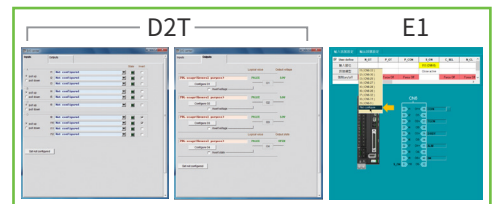


High torque	Maximum output torque > 300 Nm
Compact structure	Volume and weight reduction by more than 50% compared to other types of reducers
High precision	Positioning accuracy < 60 arc-sec Repeatability < ± 6 arc-sec
Easy installation	Can be installed in any direction / Can be programmed to any angle
Total solution	Matching drives with absolute encoder / Built-in editable PDL program Support multiple control (I/O, Pulse, EtherCAT)

Matching Drives /

- Variety of I / O functions

To support a number of different functions, you are free to configure the I/O pin functionality and adapt different hardware interface needs. This satisfies diverse requirements for different motion controllers with regards to their pin assignments and hardware interfaces.

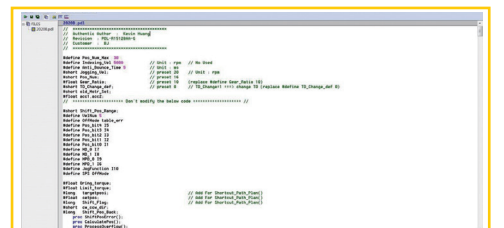


D2T

E1

- PDL (Process Description Language)

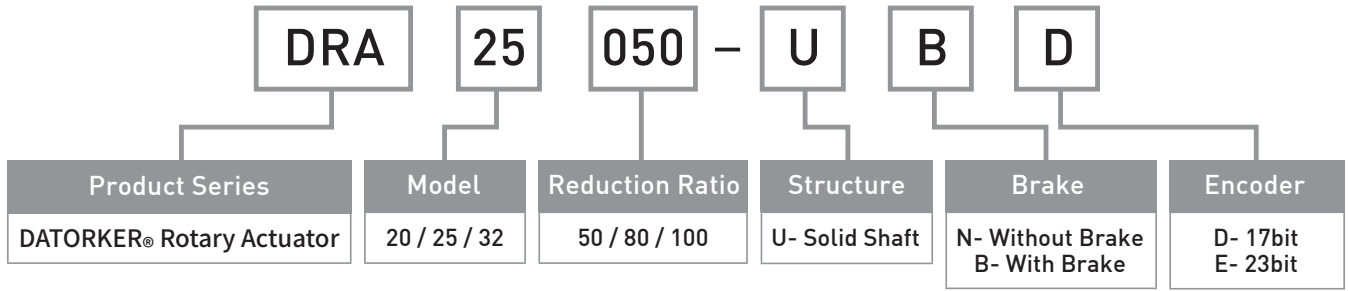
Easy-use process description language is provided. Complex motions can be designated via PDL, such as extrusion process, point-to-point motion, fixed speed control, homing process and so on. PDL gains the advantages of flexibility and programmability. For quick learning, a number of sample programs are provided in the PDL manual.



- Built-in safe torque off function (STO) *available in E1 only

When STO is triggered, motor power will be cut off immediately providing safety function.

Product Specifications /

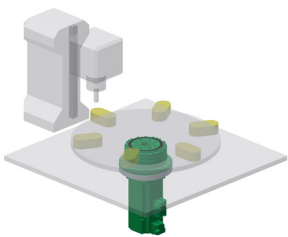


Specification Sheet /

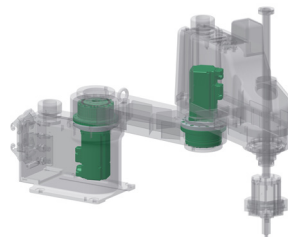
Model	Reduction Ratio	Power Supply: AC 220V					Control Mode	Encoder		Permissible Moment Load	Moment Rigidity	Weight		Output Resolution	Positioning Accuracy (uni-direction)	Repeatability									
		Max Torque	Max Speed	Rated Speed	Max Current	Rated Current		Encoder Type	Encoder Resolution (One Rotation of Output Shaft)			Without Brake	With Brake												
		Nm	rpm	rpm	A	A						Nm	× 10 ⁴ Nm/rad				kg	kg							
DRA20-D	50	56	90	60	5.1	1.7	Position control (Pulse), EtherCAT(CoE)	17bit Absolute	2 ¹⁷ (131,072)	91	12.8	2.4	3.0	< 60	< ± 6										
	80	74	56	37												6,553,600									
	100	82	45	30												10,485,760									
DRA25-D	50	98	90	60	7.8	2.6				17bit Absolute	2 ¹⁷ (131,072)	156	24.2			3.3	3.9	< 60	< ± 6						
	80	137	56	37																6,553,600					
	100	157	45	30																10,485,760					
DRA32-D	50	216	90	60	15.3	5.1		17bit Absolute	2 ¹⁷ (131,072)			313	53.9			6.8	7.5			< 60	< ± 6				
	80	304	56	37																		6,553,600			
	100	333	45	30																		10,485,760			
DRA20-E	50	56	120	60	6.4	1.6				23bit Absolute	2 ²³ (8,388,608)	91	12.8			2.3	2.6					< 60	< ± 6		
	80	74	75	37																				419,430,400	
	100	82	60	30																				671,088,640	
DRA25-E	50	98	112	60	10	2.5	23bit Absolute	2 ²³ (8,388,608)	156			24.2	3.3	3.9	< 60	< ± 6									
	80	137	70	37													419,430,400								
	100	157	56	30													671,088,640								
DRA32-E	50	216	96	60	18.6	4.65			23bit Absolute			2 ²³ (8,388,608)	313	53.9			6.9	7.6	< 60					< ± 6	
	80	304	60	37																					419,430,400
	100	333	48	30																					671,088,640

Product application and installation /

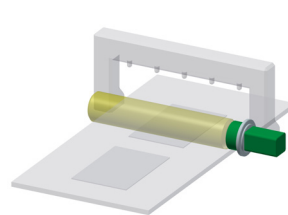
Indexing equipment,
Inspection equipment
(vertical)



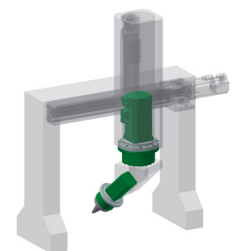
Robot
(vertical up/vertical down)



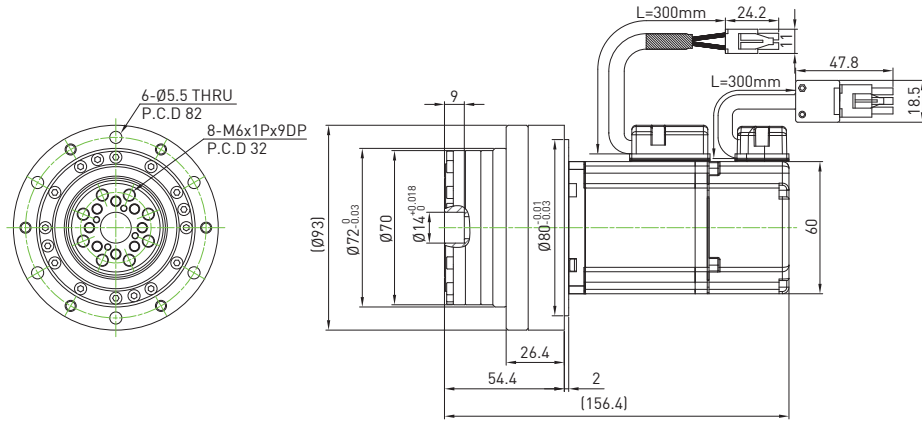
Printing automation
(horizontal)



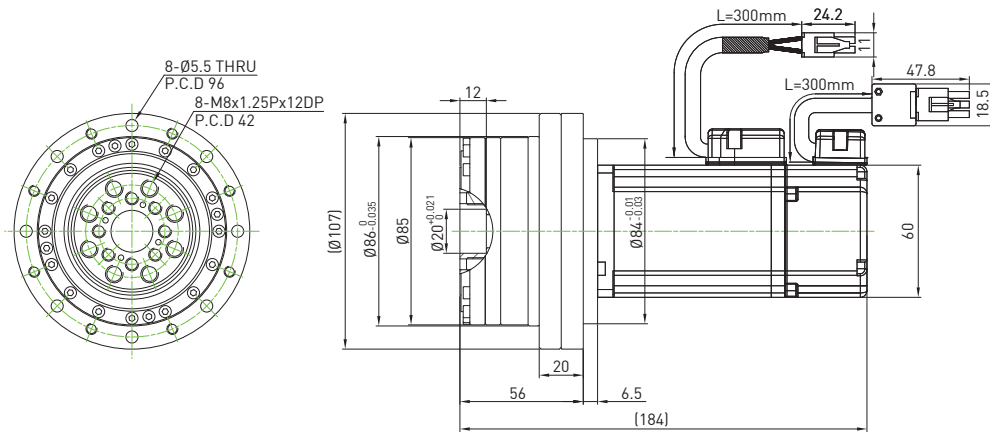
Multi-Axis applications
(any angle)



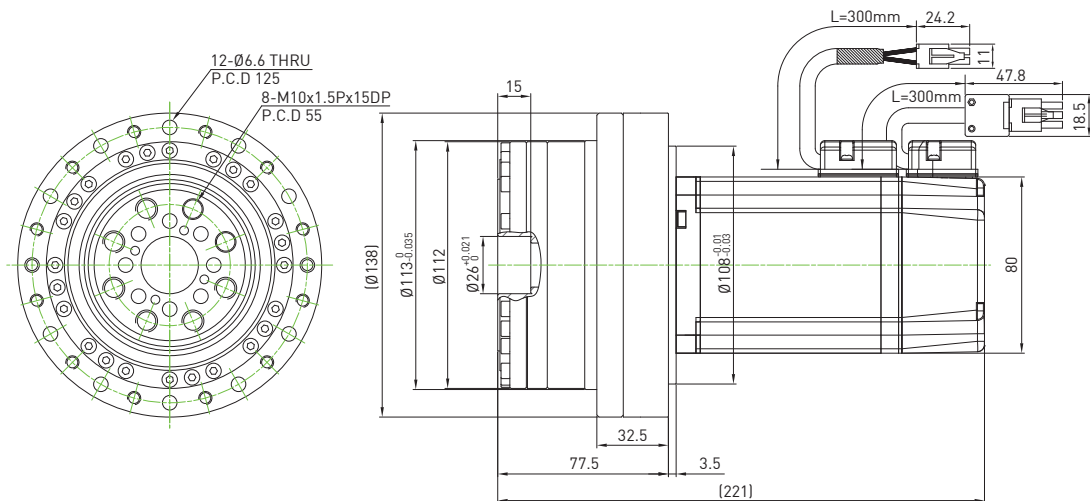
DRA20□□□ -UND



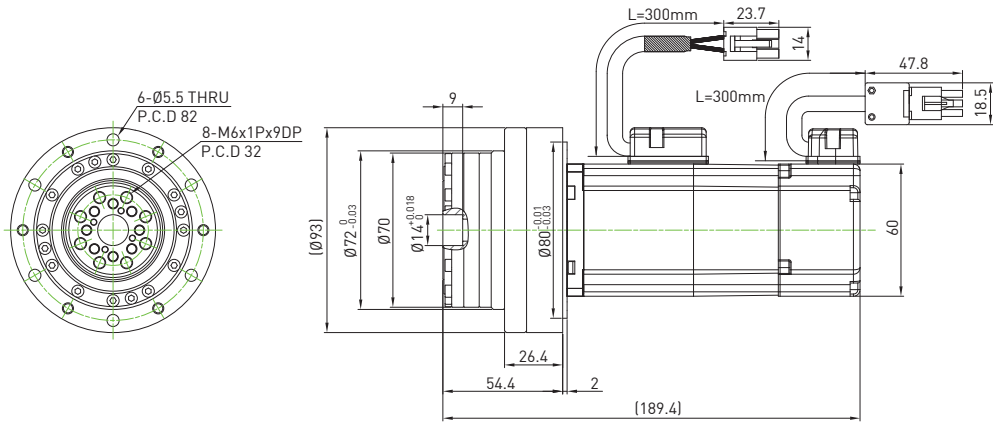
DRA25□□□ -UND



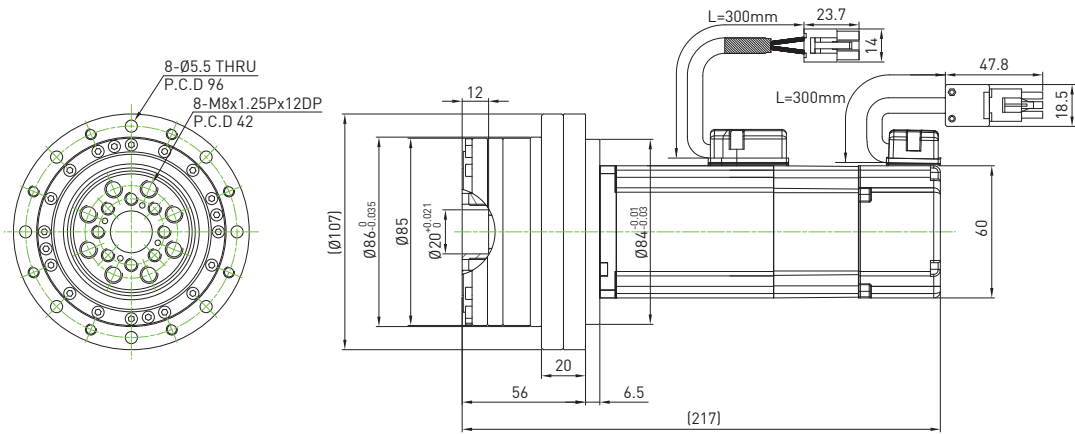
DRA32□□□ -UND



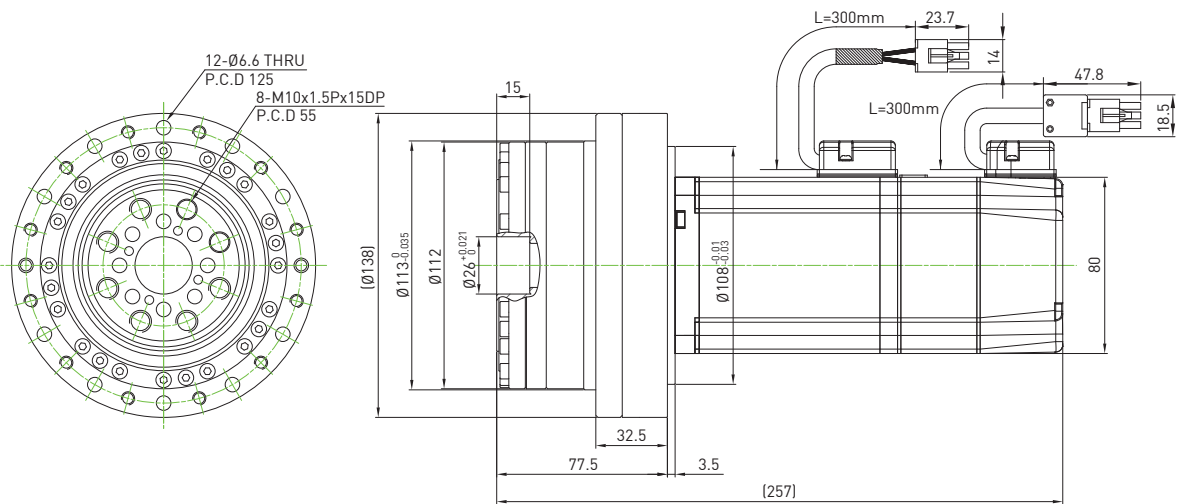
DRA20 -UBD



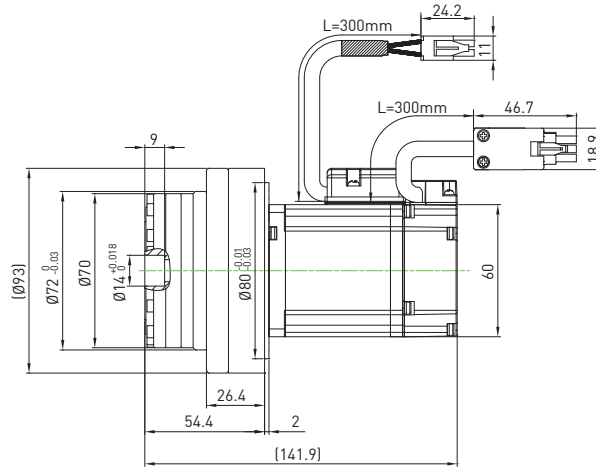
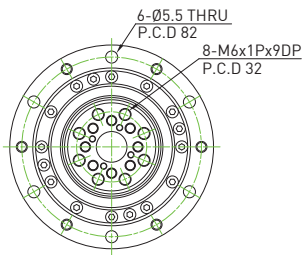
DRA25 -UBD



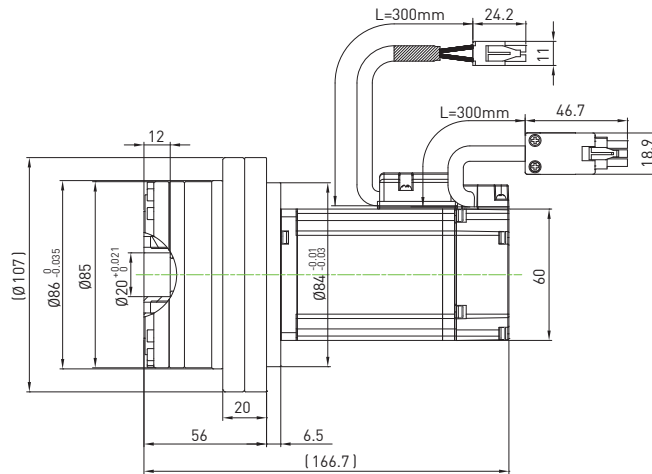
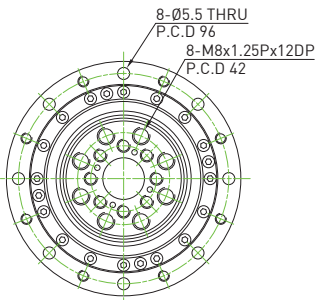
DRA32 -UBD



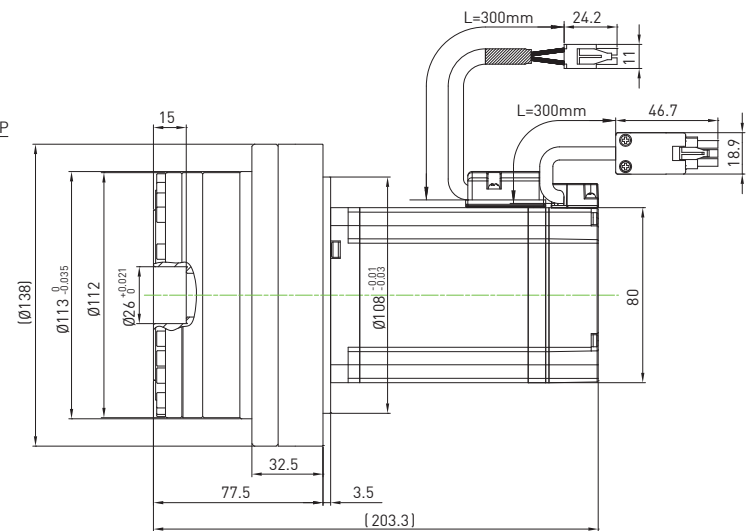
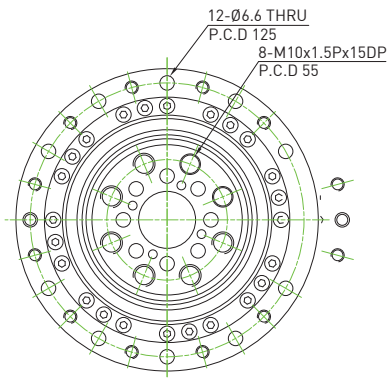
DRA20□□□ -UNE



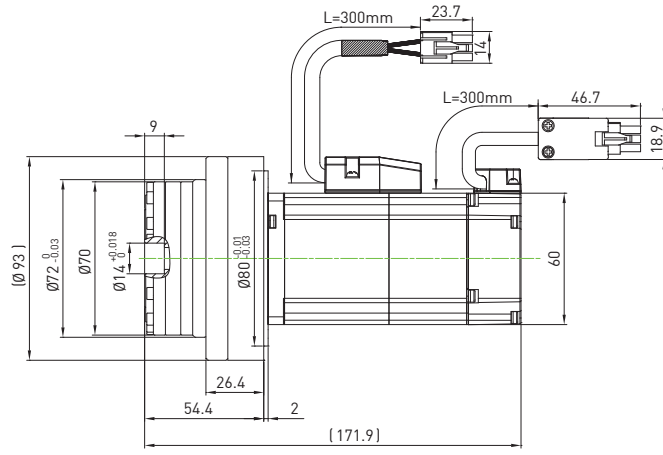
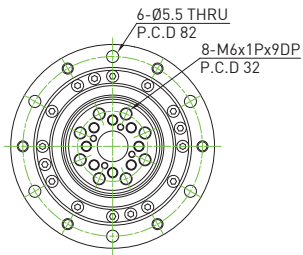
DRA25□□□ -UNE



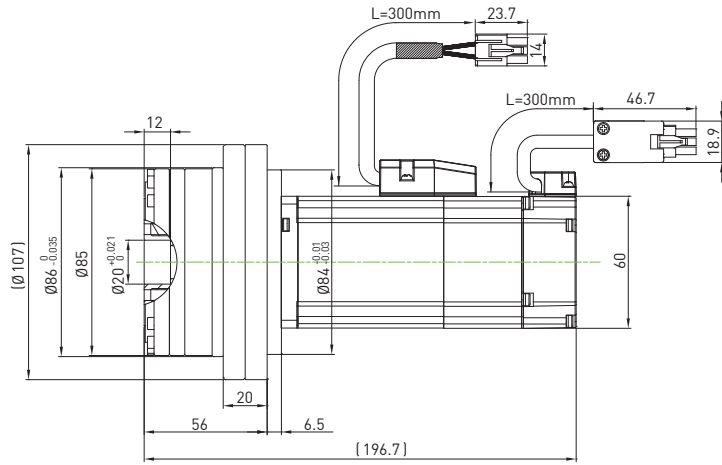
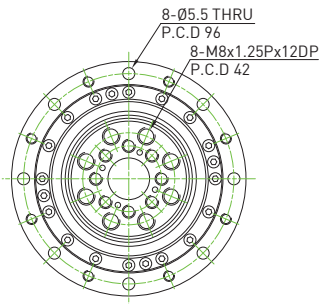
DRA32□□□ -UNE



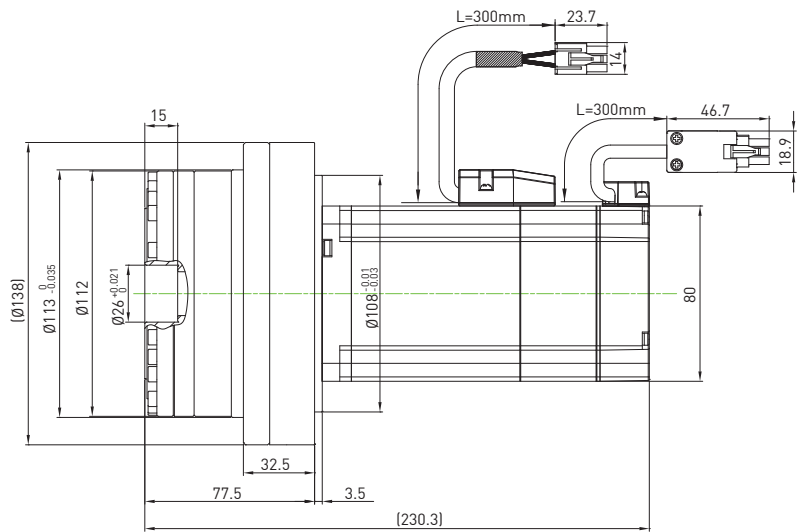
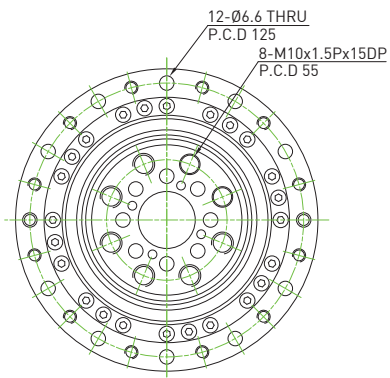
DRA20 -UBE



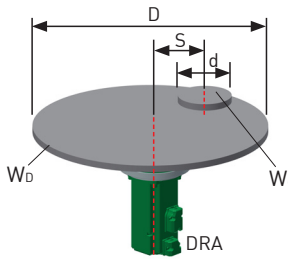
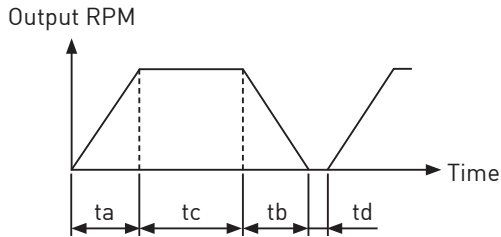
DRA25 -UBE



DRA32 -UBE



HIWIN DATORKER® Rotary Actuator Inquiry Form

Customer name			Telephone	
Email			Date	
Applications	<input type="checkbox"/> Robot _____ <input type="checkbox"/> Inspection equipment _____ <input type="checkbox"/> Automation equipment _____ <input type="checkbox"/> Electronics industry equipment _____ <input type="checkbox"/> Machine tool _____ <input type="checkbox"/> Medical equipment _____ <input type="checkbox"/> Semiconductor _____ <input type="checkbox"/> Others, please specify _____			
Selection	<p>● Mechanism details</p> <p>Table diameter(D) : _____ (mm)</p> <p>Table weight (W_b) : _____ (kg)</p> <p>Workpiece diameter(d) : _____ (mm)</p> <p>Workpiece weight(W_d) : _____ (kg)</p> <p>Distance between axis center and workpiece center (S) : _____ (mm)</p> 	<p>● Operation parameters</p> <p>Maximum RPM : _____ (rpm)</p> <p>Acceleration time(t_a) : _____ (sec)</p> <p>Deceleration time(t_b) : _____ (sec)</p> <p>Velocity time(t_c) : _____ (sec)</p> <p>Resting time(t_d) : _____ (sec)</p> 		
Working environments	<input type="checkbox"/> Normal working environment (ambient temperature 0°C - 40°C, humidity under 80% RH) <input type="checkbox"/> Special working environment (ambient temperature : _____ °C) <input type="checkbox"/> Harsh environment (dusty, wet, etc) <input type="checkbox"/> Other special environment : _____			
Installation type	<input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical(up/down) <input type="checkbox"/> Others(any angle)			
Brake	<input type="checkbox"/> No <input type="checkbox"/> Yes			
Drive	<input type="checkbox"/> D2T <input type="checkbox"/> E1(STO)			
Input voltage	<input type="checkbox"/> 220V Single phase <input type="checkbox"/> 220V Three phase <input type="checkbox"/> Others			
Power cable & Encoder cable	<input type="checkbox"/> 3M (standard) <input type="checkbox"/> 5M <input type="checkbox"/> 7M <input type="checkbox"/> 10M			
Optional accessories	<input type="checkbox"/> Control cable (including pulse + I/O pins) <input type="checkbox"/> USB transfer cable <input type="checkbox"/> Single phase filters <input type="checkbox"/> Three phase filters			
Control type	<input type="checkbox"/> Position control (pulse) <input type="checkbox"/> EtherCAT(CoE) <input type="checkbox"/> Others			
Host	<input type="checkbox"/> None <input type="checkbox"/> PLC/Brand : _____ Model : _____ <input type="checkbox"/> Axis card/Brand : _____ Model : _____			
Other requirements				
<p>Below to be filled in by HIWIN or Distributor</p> <p>Suggested Model & Specification :</p>				

HIWIN
 HIWIN TECHNOLOGIES CORP.

No. 7, Jingke Road, Taichung Precision Machinery Park,
 Taichung 40852, Taiwan
 Tel : +886-4-2359-4510 www.hiwin.tw
 Fax: +886-4-2359-4420 business@hiwin.tw

The specifications in this catalog are subject to change without notification.

Copyright © HIWIN Technologies Corp.

©2020 FORM T03DE01-2009 (PRINTED IN TAIWAN)

- HIWIN is a registered trademark of HIWIN Technologies Corp. For your protection, avoid buying counterfeit products from unknown sources.
- Actual products may differ from specifications and photos provided in this catalog. These differences may be the result of various factors including product improvements.
- HIWIN website for patented product directory: http://www.hiwin.tw/Products/Products_patents.aspx
- HIWIN will not sell or export products or processes restricted under the "Foreign Trade Act" or related regulations. Export of restricted products should be approved by proper authorities in accordance with relevant laws and shall not be used to manufacture or develop nuclear, biochemical, missiles or other weapons.