

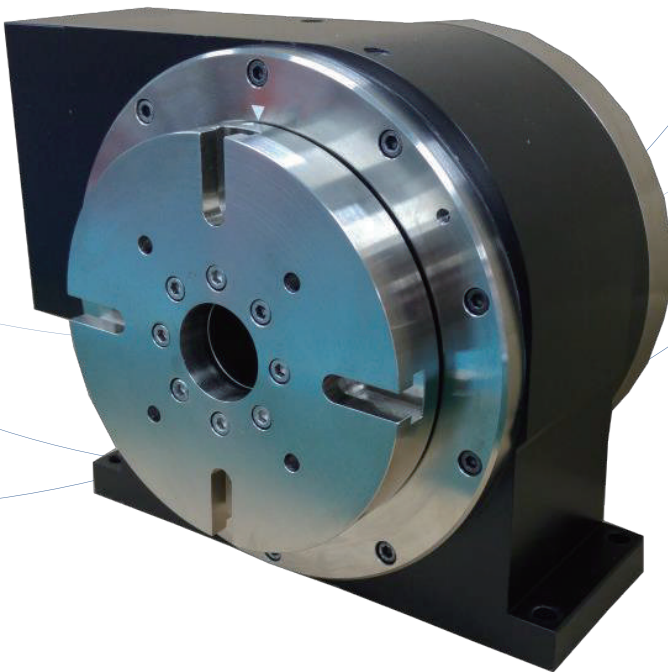
AGR Series

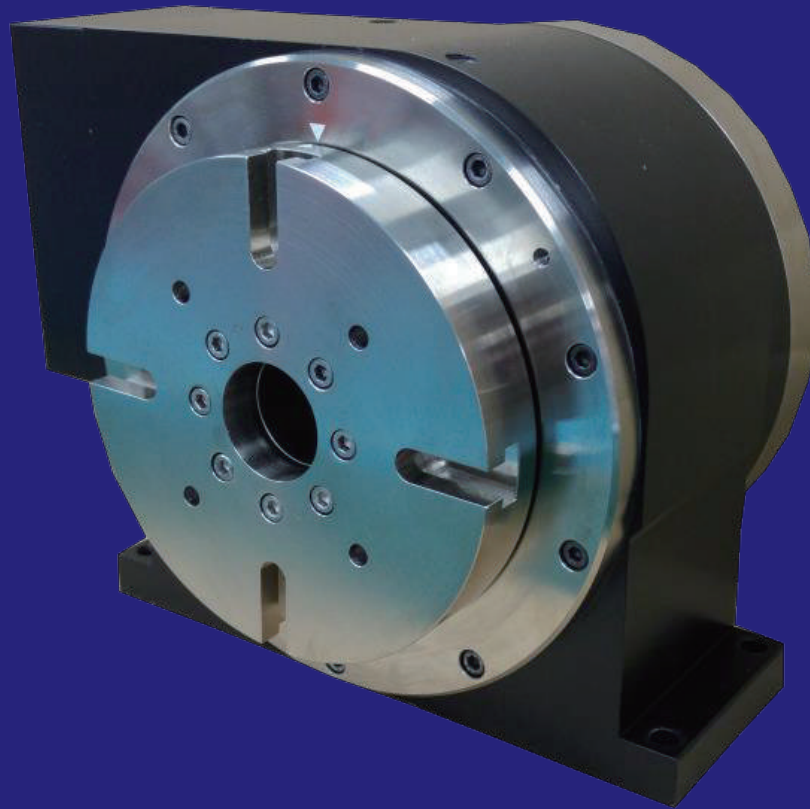
**Direct drive, brushless motor fully integrated
with absolute encoder and bearing**

Available in high resolution (26-bit), BiSS® protocol

IP67 rated Ingress Protection

Centre hole for the ease of wiring and piping





AGR Series



Direct drive, brushless motor fully integrated with absolute encoder and bearing

Available in high resolution (26-bit), BiSS® protocol

IP67 rated Ingress Protection

Centre hole for the ease of wiring and piping

Specifications

AGR Specifications		AGR3	
Model	Units	S	P
Table diameter	mm	180	
Center height	mm	127	
Number of poles		24	
Continuous torque	Nm	46.0	46.0
Peak torque	Nm	137.9	137.9
Max. cogging torque (peak to peak)	Nm	0.094	0.094
Torque constant	Nm/Arms	8.51	2.84
Back EMF constant	V/rpm	1.029	0.343
Continuous current	Arms	5.4	16.2
Peak current	Arms	16.2	48.6
Resistance ^②	ohms	5.87	0.74
Inductance ^②	mH	53.60	6.30
Electrical time constant	ms	9.13	8.51
Motor constant	Nm/SqRt(W)	3.51	3.30
Mass	Kg	53.3	53.3
Rotor Inertia	Kgm ²	0.035539	0.035539
Rec. max speed	rpm	190	250
Cooling method		Self-cooled ^③	
Clamping System		Pneumatic	
Clamping Torque (at 4.5 bars)	Nm	75.0	
IP Protection Rating		IP67	
RA Encoder resolution ^①	bit	26	26
RA Accuracy ^①	arc sec	+/-20	+/-20
RA Repeatability ^①	arc sec	+/-2.0	+/-2.0
Maximum work load	Horizontal 	35	
	Vertical 	45	
Axial load rating	N	3000	
Moment load rating	Nm	75	
Radial run-out	um	18	
Axial run-out	um	18	

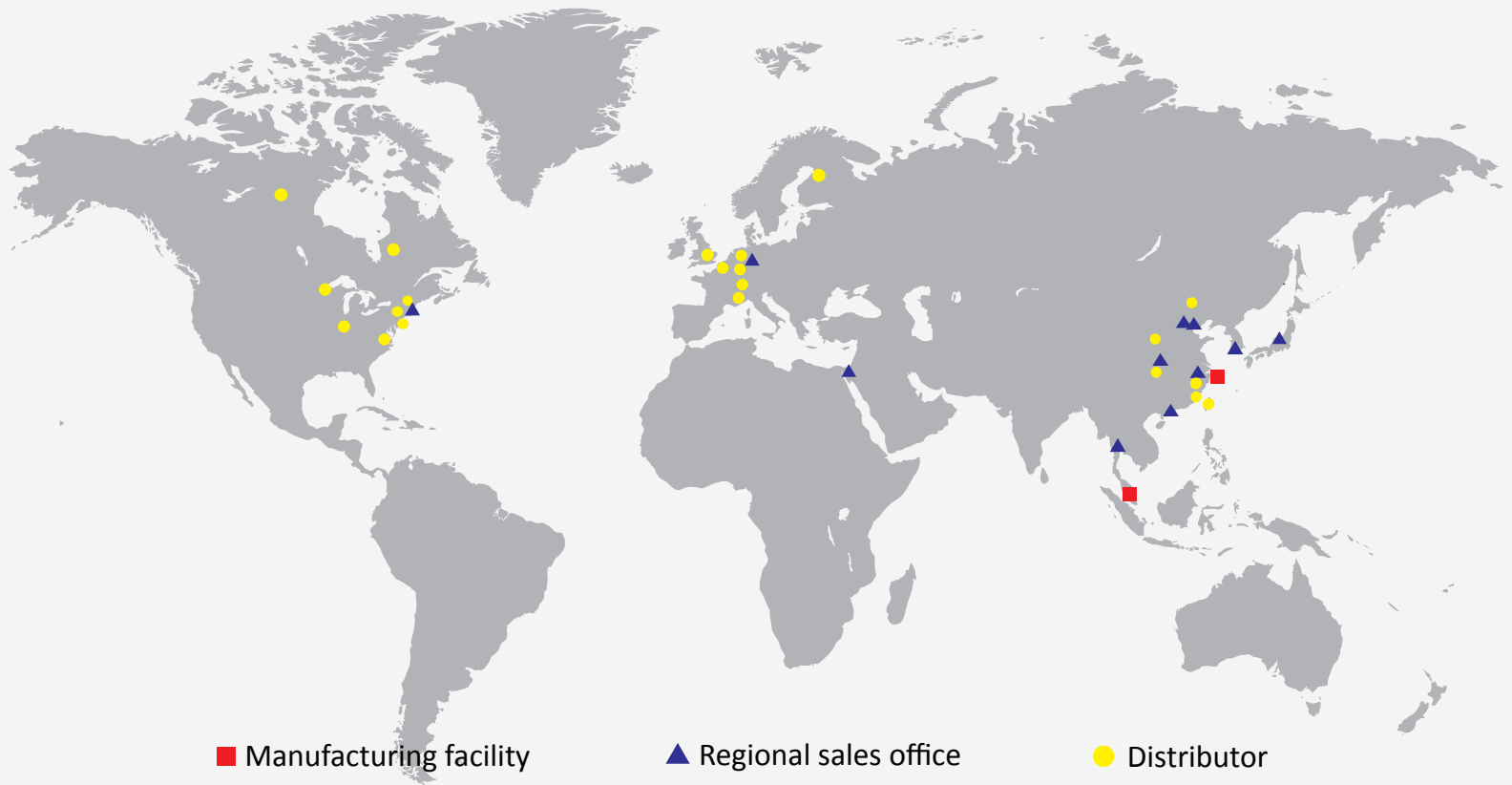
① Only 26-bit optical absolute encoder available at the moment.

② Terminal to terminal, at 25 Deg C.

③ All parameters stated above for self-cooled.

Note: Except dimensions, all the specifications in the table are +/-10% tolerance

Akribis Worldwide Offices and Distribution Network



Headquarters:

Akribis Systems Pte Ltd

5012 Techplace II Ang Mo Kio Ave 5
#01-05 Singapore 569876
Tel: (65) 6484 3357

Branches:

Akribis Systems (Shanghai)

No. 6999, Chuansha Road, A2
Pudong New Area, 201202,
Shanghai, China
Tel: (86) 21 5859 5800

Akribis Systems (US West)

780 Montague Expressway Suite 508
San Jose, CA 95131, USA
Tel: (1) 408 913 1300

Akribis Systems (US East)

100 Cummings Center Suite 212-D
Beverly, MA 01915, USA
Tel: (1) 508 934 7480

Akribis Systems (Germany)

Am Weichselgarten 19a
91058 Erlangen, Germany
Tel: (49) 9131 811790

Akribis Systems (Thailand)

No. 56/2 Chanothai , Khlong 3 ,
Khlong Luang Road, Khlong Luan,
Pathum thani, 12120, Thailand
Tel: (66) 8515 10088

Akribis Systems (Taiwan)

9/f, 985-8, Chunri Road,
Taoyuan District, Taoyuan ,Taiwan
Tel: (886) 3 3461082

Akribis Systems (Japan)

Excellent TR 1F 3-43-9 Musashidai
Fucyu-city Tokyo 183-0042 Japan
Tel: (81) 42 359 4295

Akribis Systems (Israel)

6 Yad-Harutsim St., Industrial Zone,
Kfar-Saba 4464103, Israel.
Tel: (972) 5459 0958 9

Akribis Systems (Korea)

4th floor, 81, Bupyeongbuk-ro, Bupyeong-gu,
Incheon, 21302, Rep. of KOREA
Tel: (82) 32 710 5033

Akribis Systems (Malaysia)

No.1, Jalan KPB 16, Balakong Industrial Park,
43300 Seri Kembangan, Selangor Darul Ehsan.
Tel: (603) 8964 4008

Akribis Systems (Beijing)

No.804, Building 7 Bao Li Da Du Hui,
No. 156 Xinhua North Street,
Tongzhou District, Beijing
Tel: (010) 56865157



cust-service@akribis-sys.cn
www.akribis-sys.com