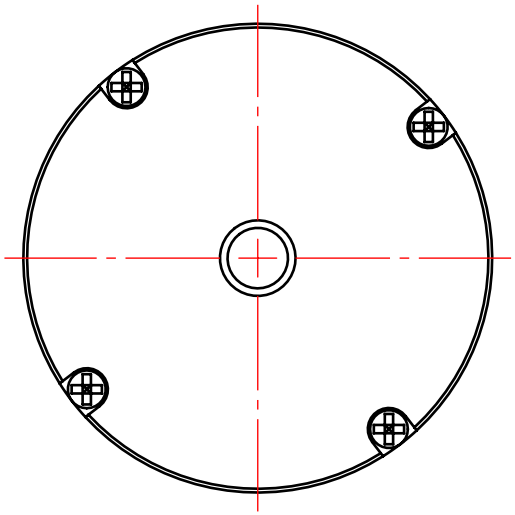
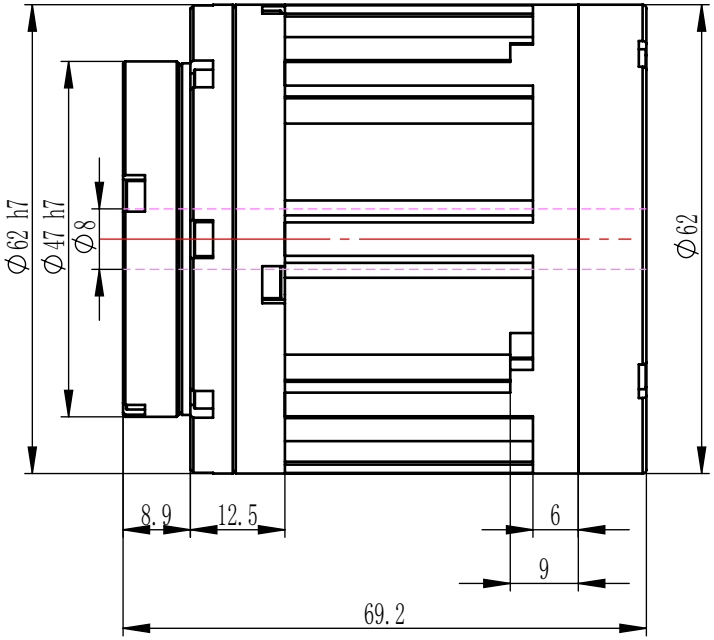
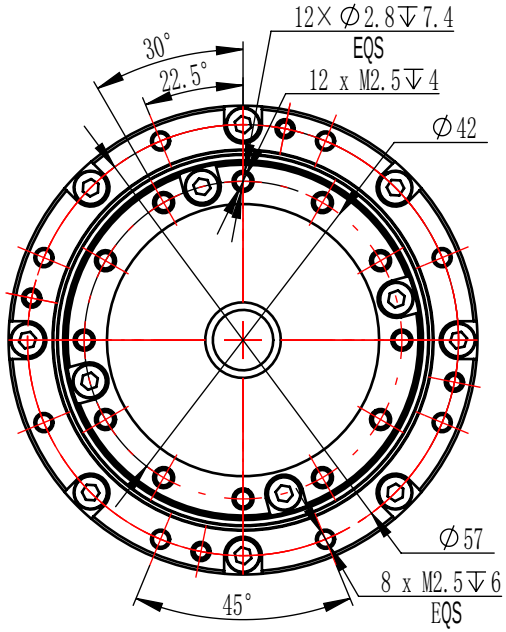






Model Selection HAG			11		
Reduction Ratio			51	81	101
48VDC	Peak torque	N.m	11.4	15	18
	Rated torque	N.m	4.6	6.2	7.3
	Maximum speed	rpm	63	40	32
	Rated speed	rpm	59	37	30
	Maximum current	Arms	3.73	3.09	2.97
	Rated current	Arms	1.5	1.28	1.2
	Torque constant	N.m/Arms	3.06	4.86	6.06
	Motor phase resistance	Ohms(20℃)	2.56		
	Motor phase inductance	mH	1.8		
	Motor back EMF constant	Vrms/krpm	9.5		
Absolute Encoder	Encoder Types		Absolute BiSS-C Protocol		
	Encoder Resolution (High-speed End)	bit	Single Turn 2^{20}(1048576)		
	Encoder Resolution (Output End)	bit	Single Turn 2^{19}(524288) Multi-Turn 2^{12}(4096)		
Unidirectional Positioning Accuracy		Arcsec	≤60	≤50	≤50
Repeatability Accuracy		Arcsec	≤15	≤10	≤10
Overturning Stiffness		x10^4N.m/ rad	8		
Torsional Stiffness		x10^4N.m/ rad	0.46	0.6	
Rotor Moment of Inertia	Without Brake	kg*m²	$1.9*10^{-5}$		
Weight	With Brake	Kg	0.47		
Motor Poles		Pole	10		

Note: The torque sensor has a rated measurement range of 25 N·m with a non-linearity of 0.5%.
-B-C indicates with brake, CANopen protocol
-B-E indicates with brake, EtherCAT protocol

HAG-T11-XXX-DC1-D-A-X

Rotary Actuator

Scale: 1:1
Date: 2025/11/11
Version: V3.0