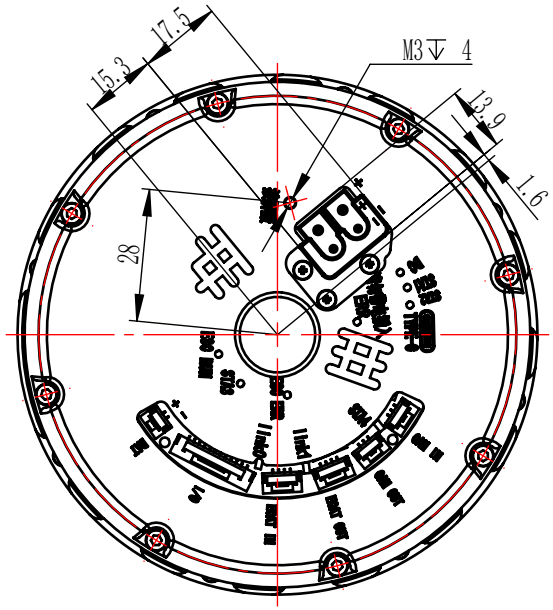
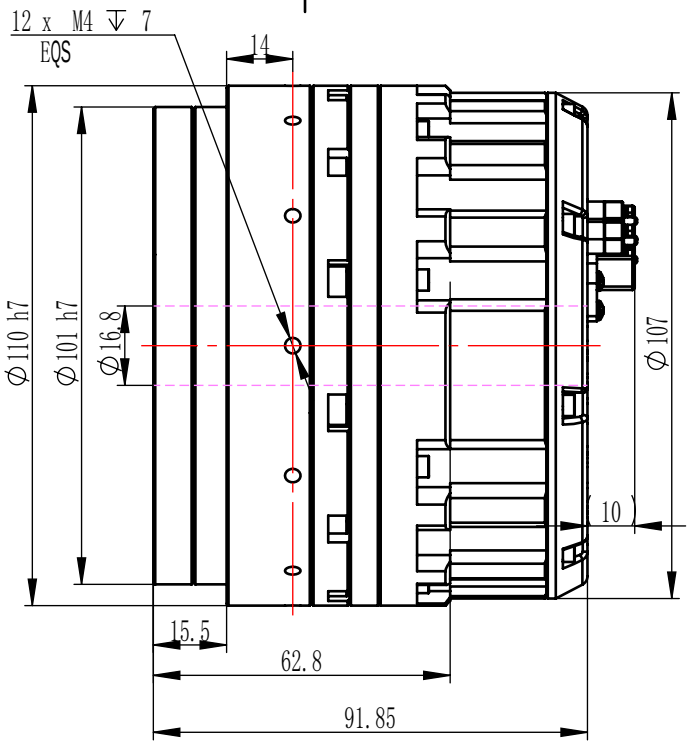
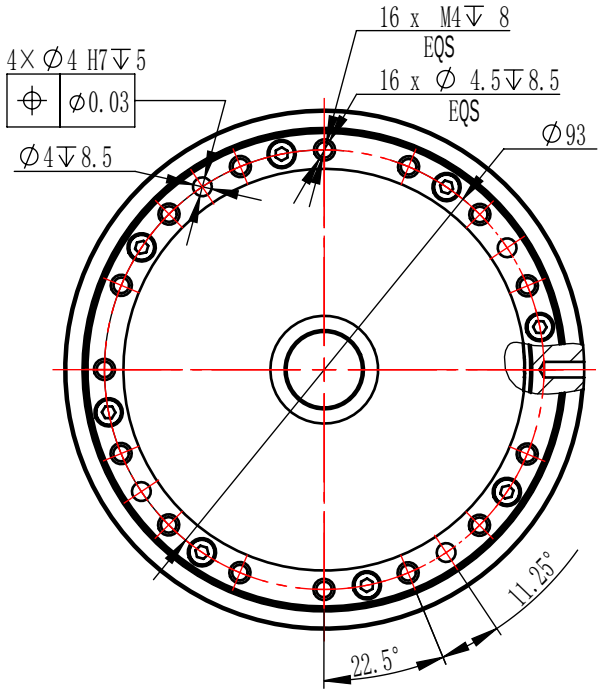






Model Selection HAG			25			
Reduction Ratio			51	81	101	121
48VDC	Peak torque	N.m	126	199	221	235
	Rated torque	N.m	64	100	125	144
	Maximum speed	rpm	69	43	35	29
	Rated speed	rpm	59	37	30	25
	Maximum current	Arms	28.07	27.92	24.86	22.07
	Rated current	Arms	14.26	14.03	14.06	13.52
	Torque constant	N.m/Arms	4.49	7.13	8.89	10.65
	Motor phase resistance	Ohms(20℃)	TBD			
	Motor phase inductance	mH	TBD			
	Motor back EMF constant	Vrms/krpm	8			
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	≤50
Repeatability Accuracy		Arcsec	≤10	≤10	≤10	≤10
Overturning Stiffness		x10^4N.m/ rad	38			
Torsional Stiffness		x10^4N.m/ rad	3.4	4.6		
Rotor Moment of Inertia	Without Brake	kg*m²	$1.45*10^{-4}$			
Weight	With Brake	Kg	2.53			
Motor Poles		Pole	16			

Note: The torque sensor has a rated measurement range of 250 N·m with a non-linearity of 0.5%.
-B-C indicates with brake, CANopen protocol
-B-E indicates with brake, EtherCAT protocol

HAG-T25-XXX-DC1-D-B-X

Rotary Actuator

Scale: 1:1.6
Date: 2025/11/12
Version: V3.0