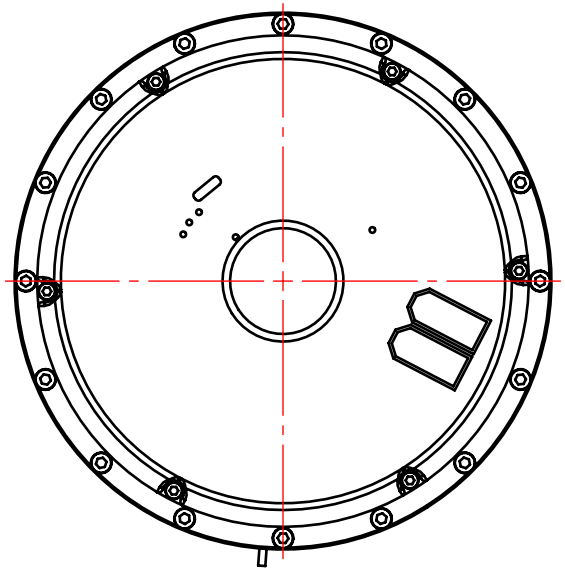
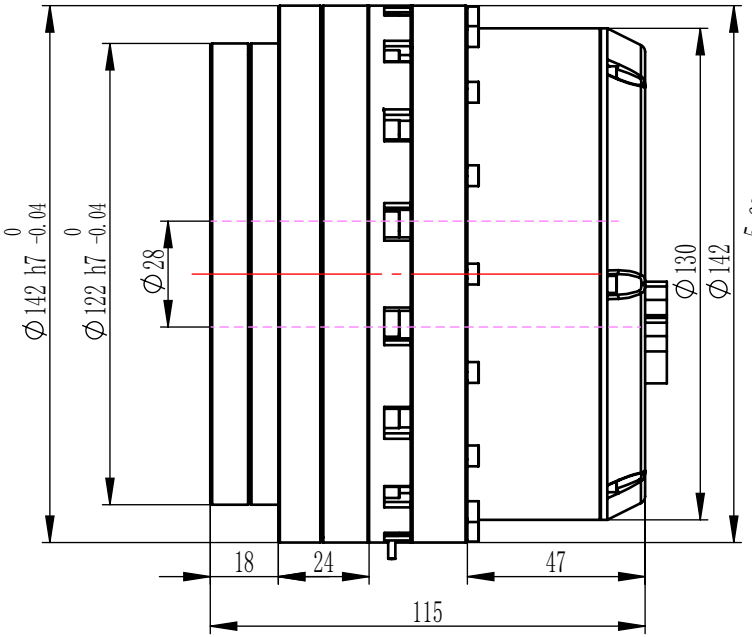
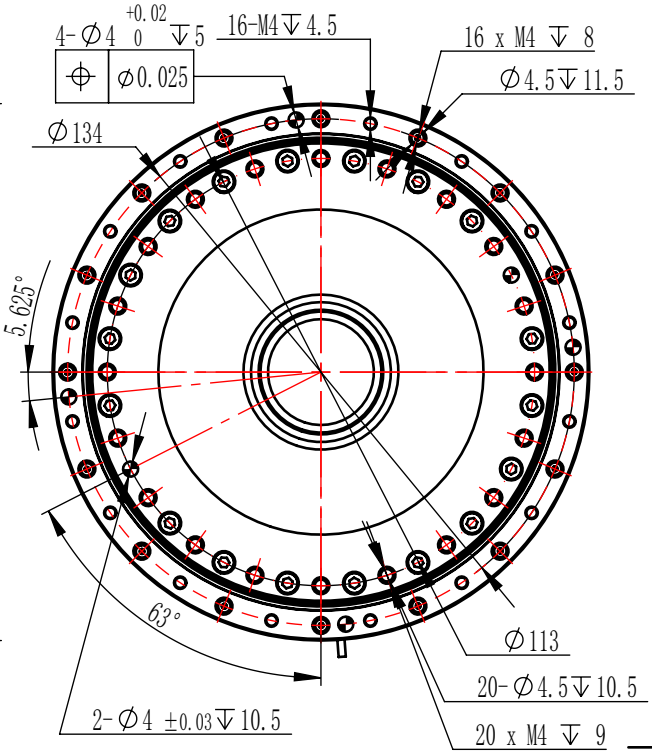






Model Selection HAG			32		
Reduction Ratio			51	101	161
48VDC	Peak torque	N.m	255	380	430
	Rated torque	N.m	127	247	300
	Maximum speed	rpm	59	30	19
	Rated speed	rpm	47	24	15
	Maximum current	Arms	48.08	36.18	25.68
	Rated current	Arms	23.94	23.51	17.92
	Torque constant	N.m/Arms	5.3	10.5	16.74
	Motor phase resistance	Ohms(20℃)	TBD		
	Motor phase inductance	mH	TBD		
	Motor back EMF constant	Vrms/krpm	10		
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	≤55	≤45
Repeatability Accuracy		Arcsec	≤10	≤10	≤10
Overturning Stiffness		x10^4N.m/ rad	95		
Torsional Stiffness		x10^4N.m/ rad	7.6		
Rotor Moment of Inertia	Without Brake	kg*m²	9.24*10^{-4}		
Weight	With Brake	Kg	5		
Motor Poles		Pole	16		

Note: The torque sensor has a rated measurement range of 500 N·m with a non-linearity of 0.5%.
-B-C indicates with brake, CANopen protocol
-B-E indicates with brake, EtherCAT protocol

HAG-T32-XXX-DC1-D-B-X

Rotary Actuator

Scale: 1:2
Date: 2025/11/12
Version: V00