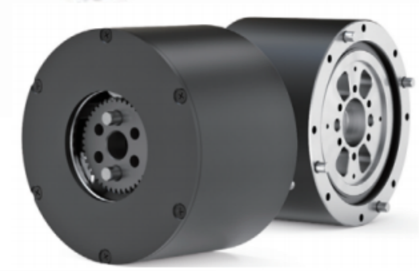
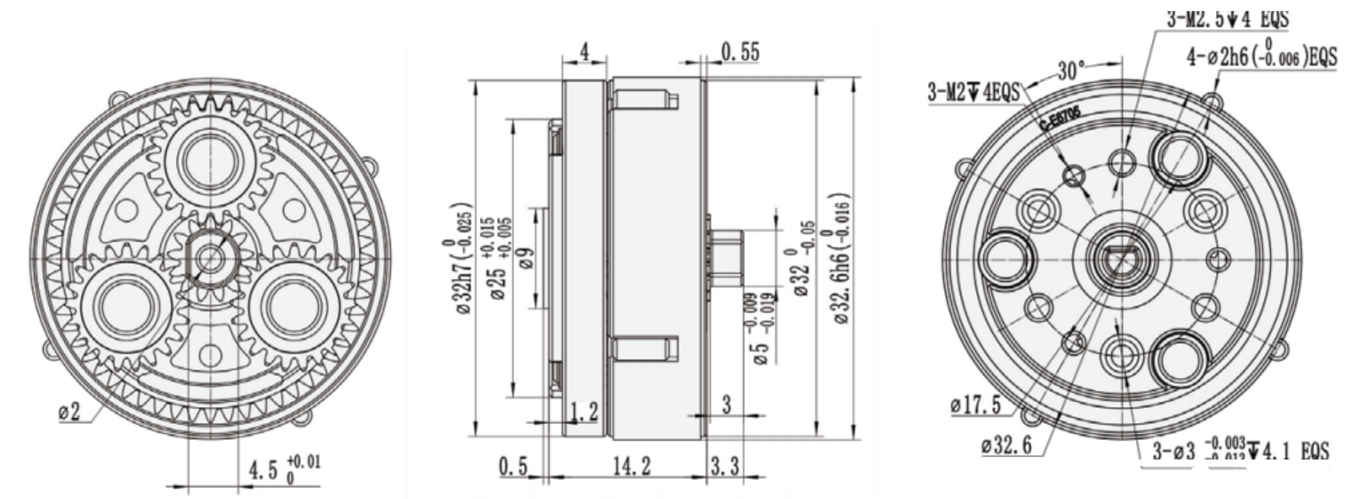
NEWSTART
HUMANOID ROBOT JOINT REDUCER

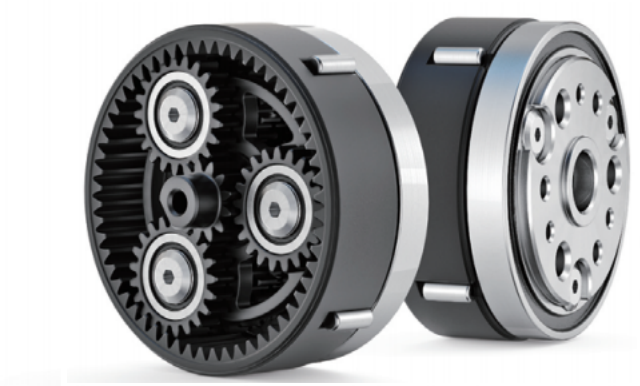
Newstart humanoid robot joint reducer NT and NTAD series. Featuring an optimized design, these reducers are compact and have a small footprint. They offer high load-bearing capacity, high transmission efficiency, and are both economical and durable.



NTAD-32
NTAD-64
NTAD-90
NTAD-10
NTAD-110
NT-50
NT-60
NT-90
NT-94
NT-120

NTAD32L2-28.17-P2-0P2-T（mm） A.NTAD.032.02.0001





减速比 Ratio	i推荐	28.17:1	容许最大径向负载 Maximum radial load	N	150
额定承载扭矩 T2B Mominal output torque	Nm	7.5	容许最大轴向负载 M ximum axial load	N	150
最大加速力矩 T2B Maximum acceleration torque	Nm	12	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	15	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.05	噪音 Noise	dB(A)	≤60
回程间隙 Backlash	arcmin	≤12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD-3:
NTAD-64
NTAD-90
NTAD-100
NTAD-110
NT-50
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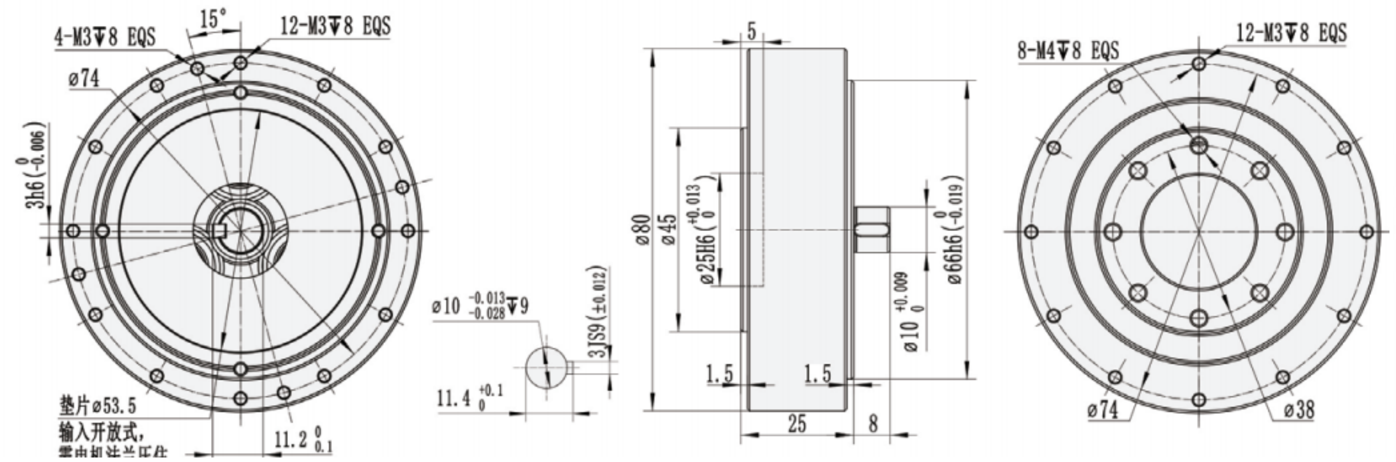
NT-90
NT-94
NT-120

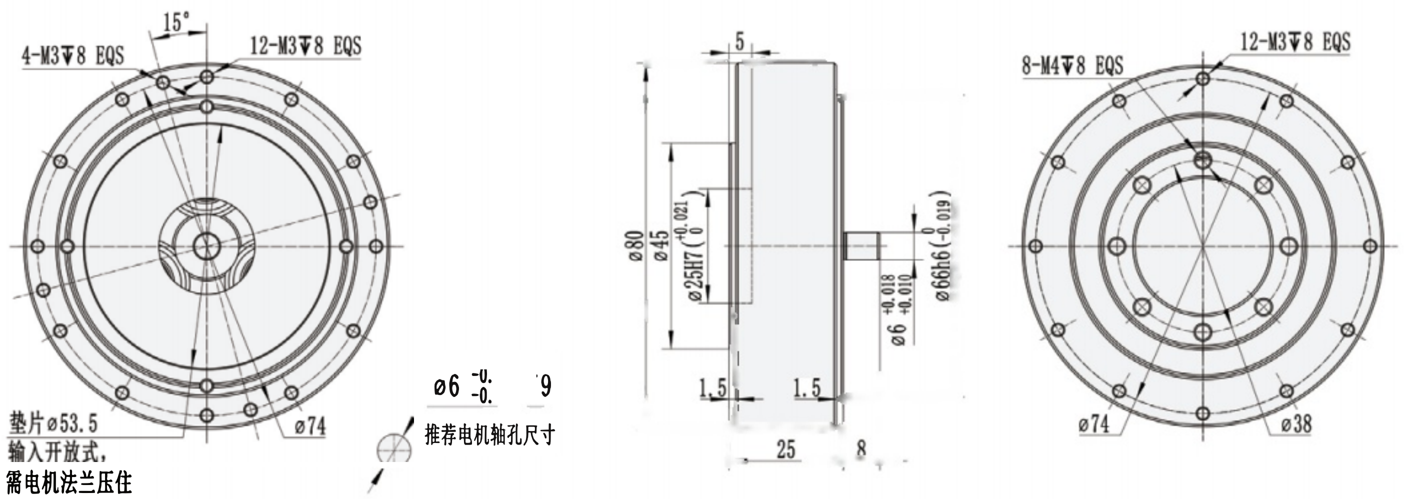
NTAD64L1-5-P1-0P2-T (mm) A.NTAD.064.01.2000



推荐电机轴孔尺寸

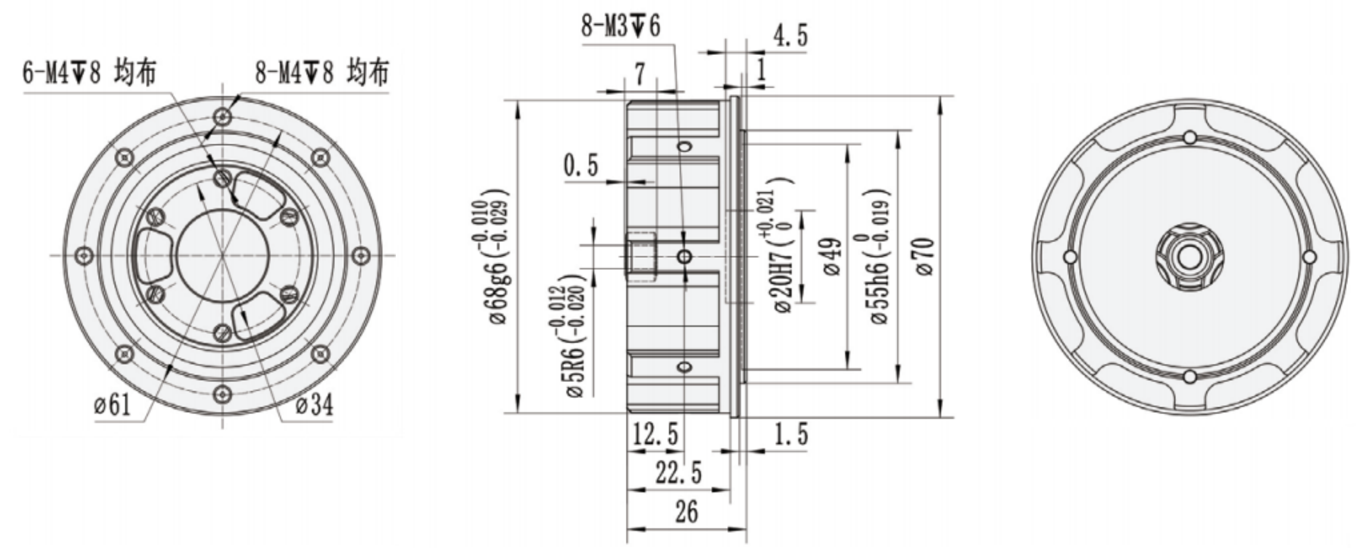
减速比 Ratio	i推荐	5:1	容许最大径向负载 Ma imum radial load	N	400
额定承载扭矩 T2B Mominal output torque	Nm	30	容许最大轴向负载 Max m n axial load	N	400
最大加速力矩 T2B Maximum acceleration torque	Nm	60	使用温度 Use of temperature	℃	(-40℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	90	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.12	噪音 Noise	dB(A)	≤65
回程间隙 Backlash	arcmin	≤5	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD64L1-10-P1-OP2-T（mm） A.NTAD.064.01.2001



减速比 Ratio	i推荐	10:1	容许最大径向负载 Maximum radial load	N	400
额定承载扭矩 T2B Mominal output torque	Nm	18	容许最大轴向负载 Maximum axial load	N	400
最大加速力矩 T2B Maximum acceleration torque	Nm	36	使用温度 Use of temperature	℃	(-40℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	54	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.12	噪音 Noise	dB(A)	≤65
回程间隙 Backlash	arcmin	≤5	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD64L2-36-P2-OP2-T（mm） A.NTAD.064.02.0001



减速比 Ratio	i推荐	36:1	容许最大径向负载 Maximum radial load	N	500
额定承载扭矩 T2B Mominal output torque	Nm	26	容许最大轴向负载 Maximum axial load	N	100
最大加速力矩 T2B Maximum acceleration torque	Nm	46.8	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	78	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.1	噪音 Noise	dB(A)	≤60
回程间隙 Backlash	arcmin	≤15	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD-32
NTAD 64
NTAD-90
NTAD-100
NTAD-110
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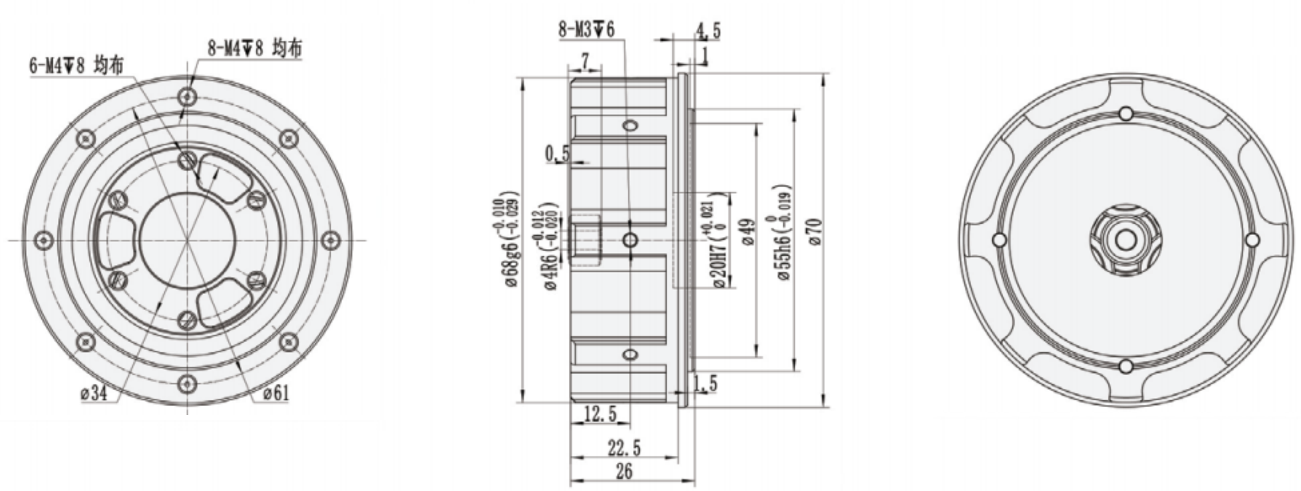
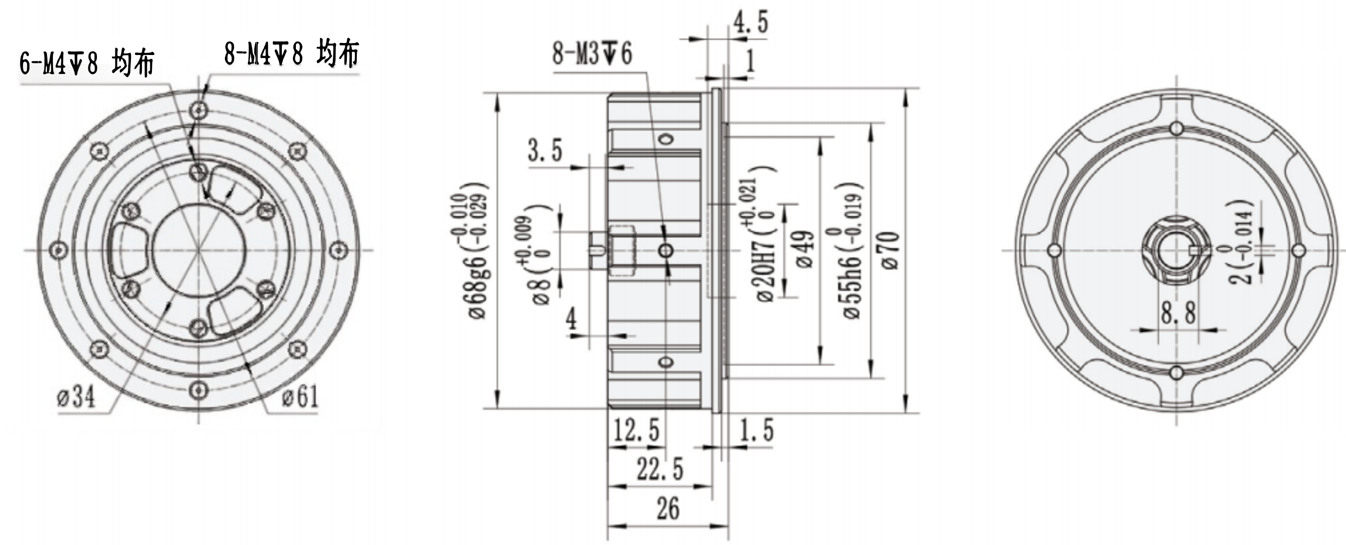
NT-90
NT-94
NT-120

NTAD64L2-36-P2-OP2-T1（mm） A.NTAD.064.02.0002



减速比 Ratio	i推荐	36:1	容许最大径向负载 Maximum radial load	N	500
额定承载扭矩 T2B Mominal output torque	Nm	26	容许最大轴向负载 Maximum axial load	N	100
最大加速力矩 T2B Maximum acceleration torque	Nm	46.8	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	78	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.1	噪音 Noise	dB(A)	≤60
回程间隙 Backlash	arcmin	≤15	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD64L2-36-P2-OP2-T2（mm） A.NTAD.064.02.0003



减速比 Ratio	i推荐	36:1	容许最大径向负载 Maximum radial load	N	500
额定承载扭矩 T2B Mominal output torque	Nm	26	容许最大轴向负载 Maximum axial load	N	100
最大加速力矩 T2B Maximum acceleration torque	Nm	46.8	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	78	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.1	噪音 Noise	dB(A)	≤60
回程间隙 Backlash	arcmin	≤15	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD-32
NTAD 64
NTAD-90
NTAD-100
NTAD-110
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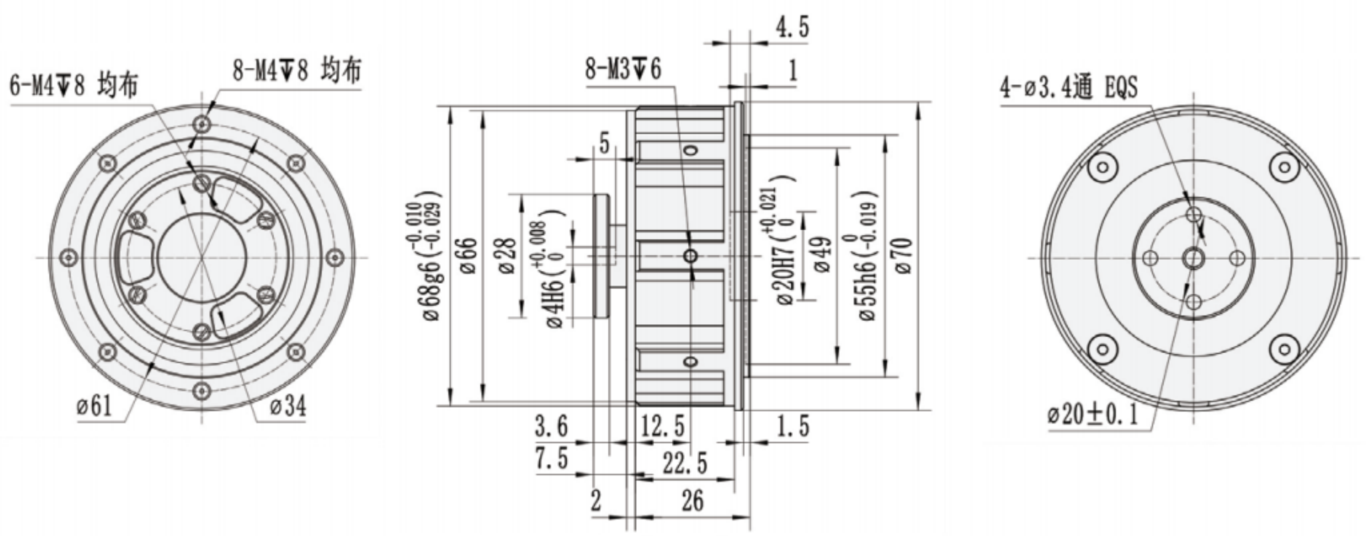
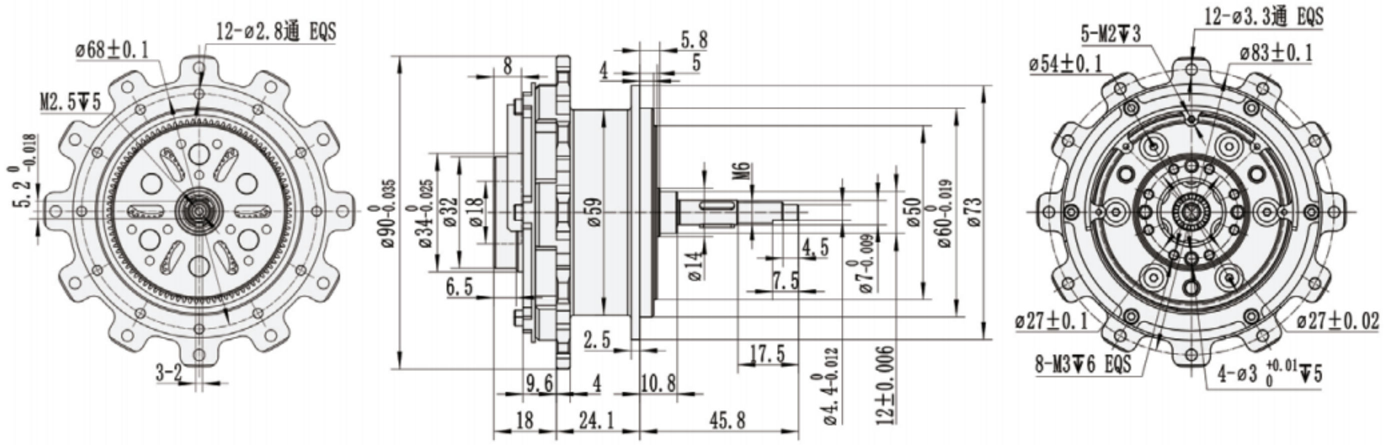
NT-94
NT-120

NTAD64L2-36-P2-OP2-T3（mm） A.NTAD.064.02.0004



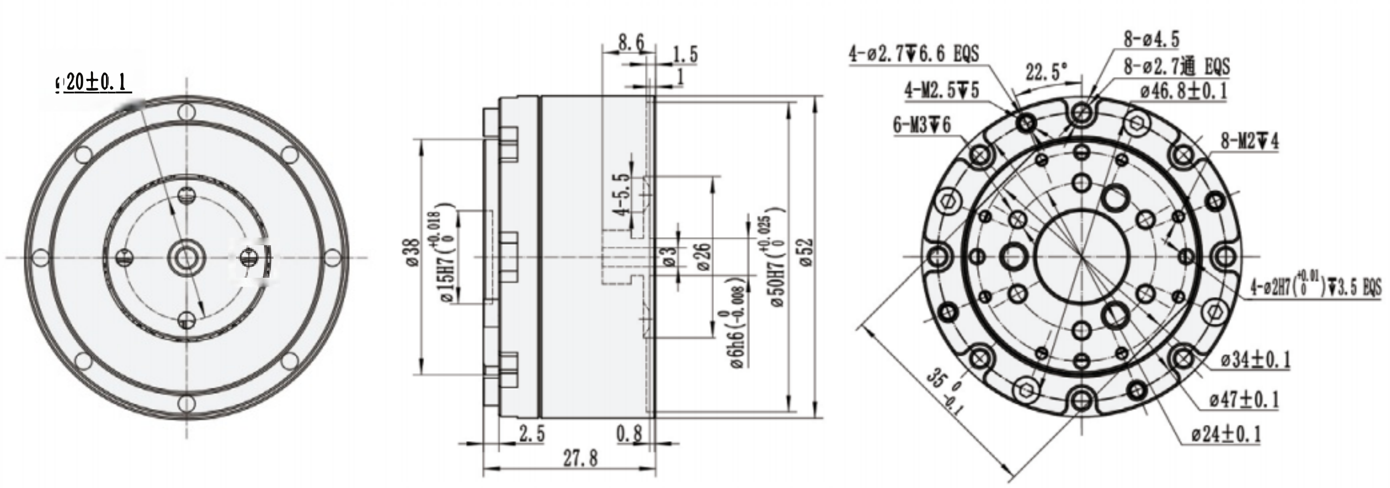
减速比 Ratio	i推荐	36:1	容许最大径向负载 Maximum radial load	N	500
额定承载扭矩 T2B Mominal output torque	Nm	26	容许最大轴向负载 Maximum axial load	N	100
最大加速力矩 T2B Maximum acceleration torque	Nm	46.8	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	78	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.1	噪音 Noise	dB(A)	⩽60
回程间隙 Backlash	arcmin	⩽15	输入轴锁紧力矩 Input shaft locking torque	Nm	9.8

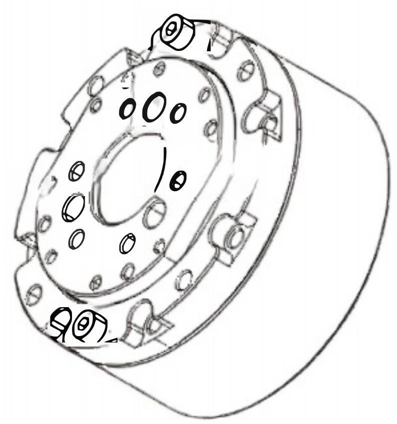
NTAD64L2-29.47-P2-OP2-T (mm) A.NTAD.064.02.0005



减速比 Ratio	i推荐	29.47:1	容许最大径向负载 Maximum radial load	N	2000
额定承载扭矩 T2B Mominal output torque	Nm	44	容许最大轴向负载 Maximum axial load	N	1000
最大加速力矩 T2B Maximum acceleration torque	Nm	80	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	132	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.2	噪音 Noise	dB(A)	⩽68
回程间隙 Backlash	arcmin	⩽12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

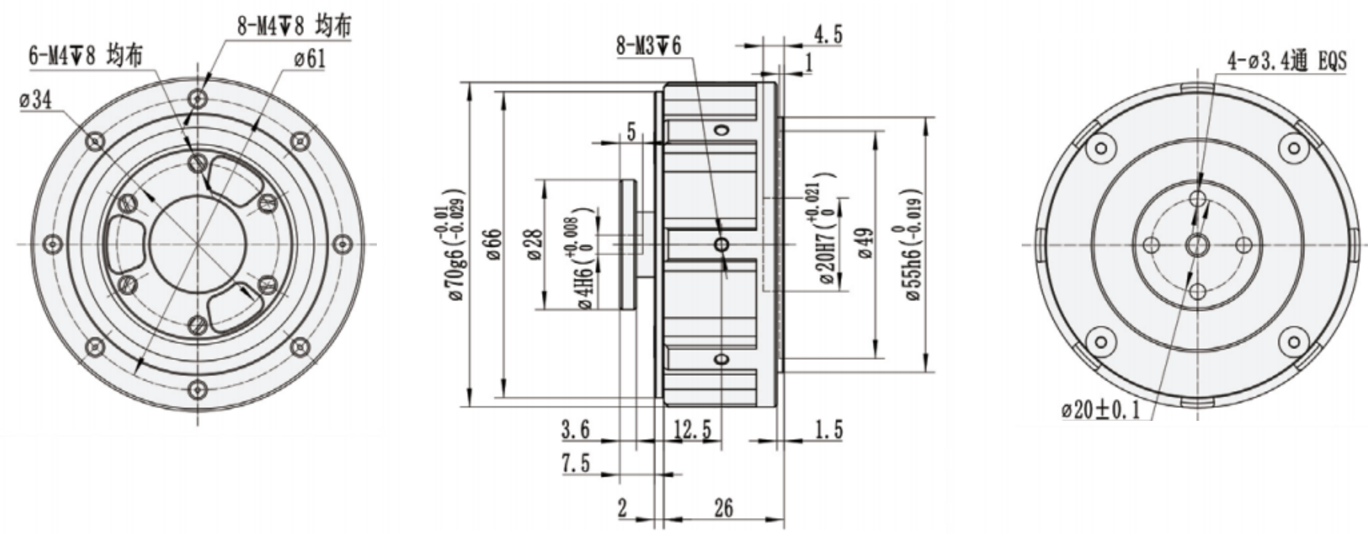
NTAD64L2-36-P2-OP2-T52（mm） A.NTAD.064.02.0006





减速比 Ratio	i推荐	36:1	容许最大径向负载 Maximum radial load	N	1000
额定承载扭矩 T2B Mominal output torque	Nm	10	容许最大轴向负载 Maximum axial load	N	500
最大加速力矩 T2B Maximum acceleration torque	Nm	15	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	30	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	720	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2200	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.12	噪音 Noise	dB(A)	⩽60
回程间隙 Backlash	arcmin	⩽12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD64L2-36-P2-OP2-T4（mm） A.NTAD.064.02.2000



减速比 Ratio	i推荐	36:1	容许最大径向负载 Maximum radial load	N	500
额定承载扭矩 T2B Mominal output torque	Nm	26	容许最大轴向负载 Maximum axial load	N	100
最大加速力矩 T2B Maximum acceleration torque	Nm	60	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	78	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.1	噪音 Noise	dB(A)	⩽60
回程间隙 Backlash	arcmin	⩽15	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD-32
NTAD-64
NTAD-90
NTAD-10
NTAD-110
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NT-94
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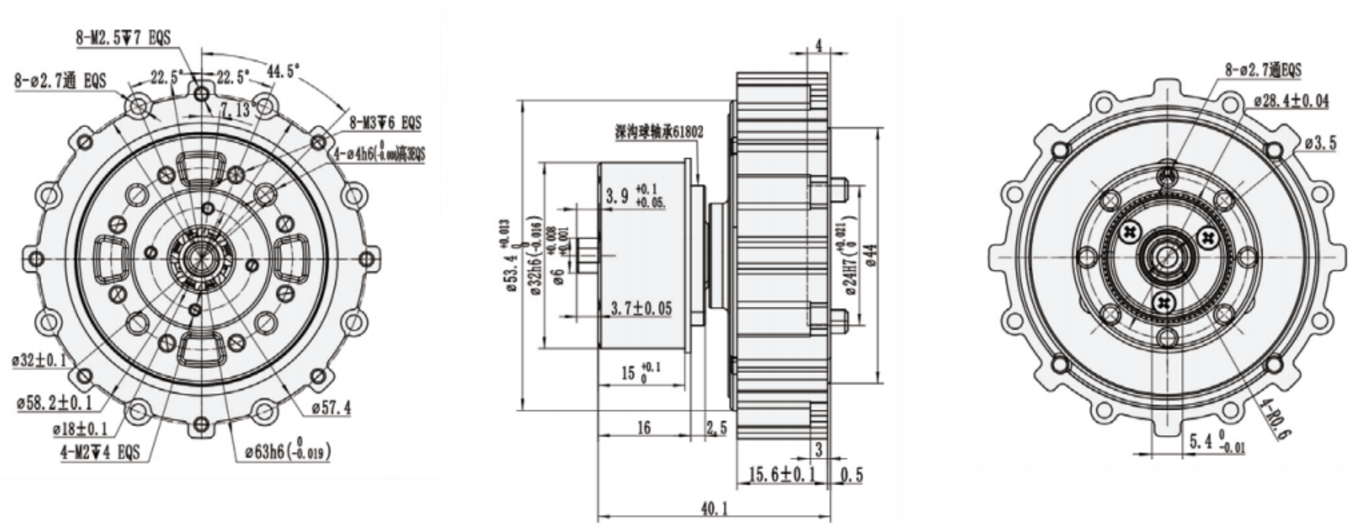
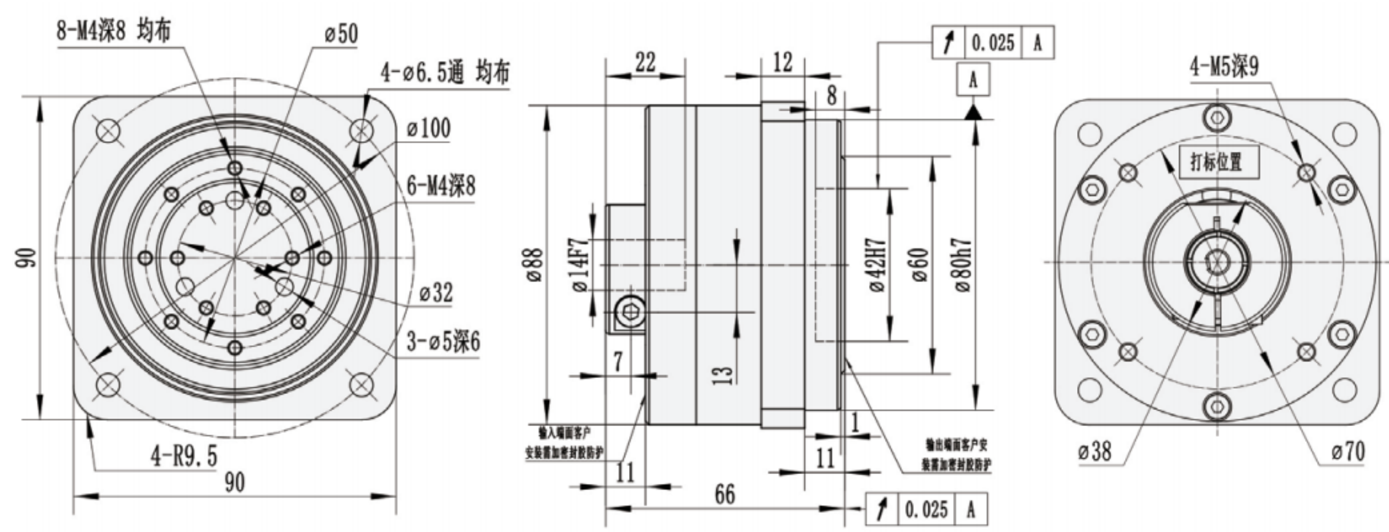
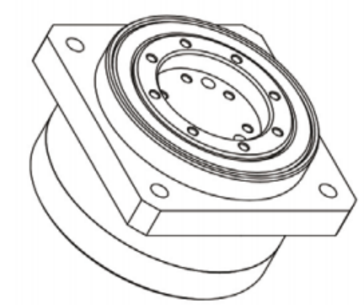
NTAD64L2-30-P2-OP2-T（mm） A.NTAD.064.02.2001



减速比 Ratio	i推荐	30:1	容许最大径向负载 Maximum radial load	N	500
额定承载扭矩 T2B Nominal output torque	Nm	1.4	容许最大轴向负载 Maximum axial load	N	200
最大加速力矩 T2B Maximum acceleration torque	Nm	2.8	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	4.2	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	3800	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	4000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.1	噪音 Noise	dB(A)	≤65
回程间隙 Backlash	arcmin	≤12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

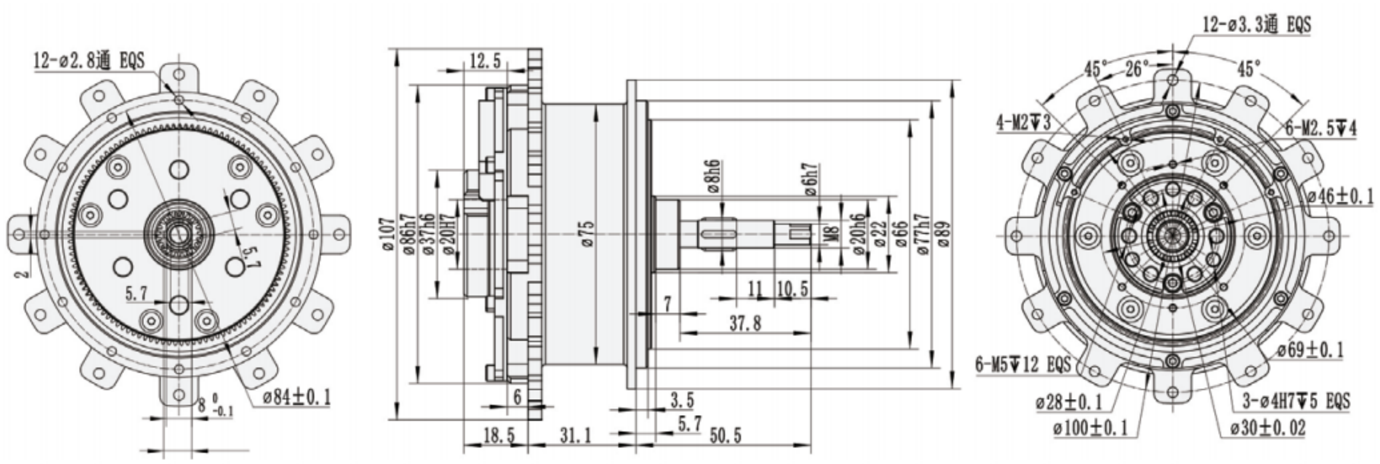
NTAD90L1-10-P1-OP2-T-14（mm） A.NTAD.090.01.0002

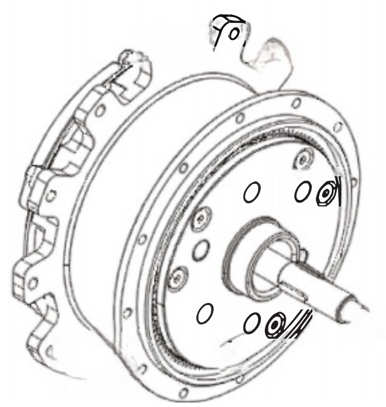




减速比 Ratio	i推荐	10:1	容许最大径向负载 Maximum radial load	N	1500
额定承载扭矩 T2B Nominal output torque	Nm	60	容许最大轴向负载 Maximum axial load	N	1000
最大加速力矩 T2B Maximum acceleration torque	Nm	108	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	180	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	1500	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	3000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.2	噪音 Noise	dB(A)	≤60
回程间隙 Backlash	arcmin	≤3	输入轴锁紧力矩 Input shaft locking torque	Nm	—

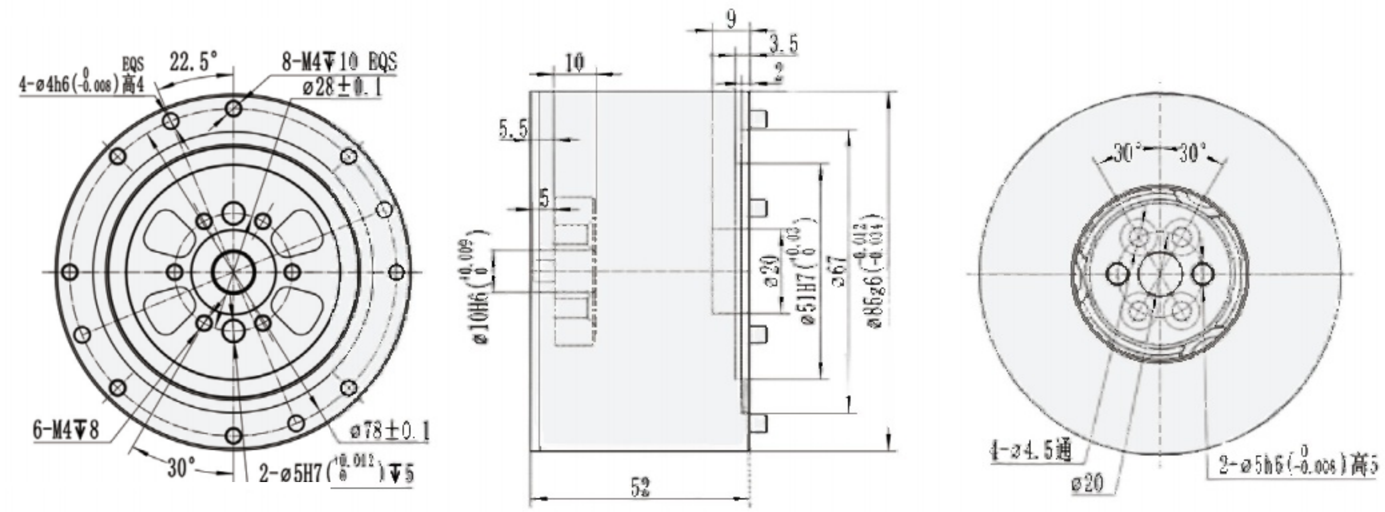
NTAD90L2-32.1-P2-OP2-T（mm） A.NTAD.090.02.0001





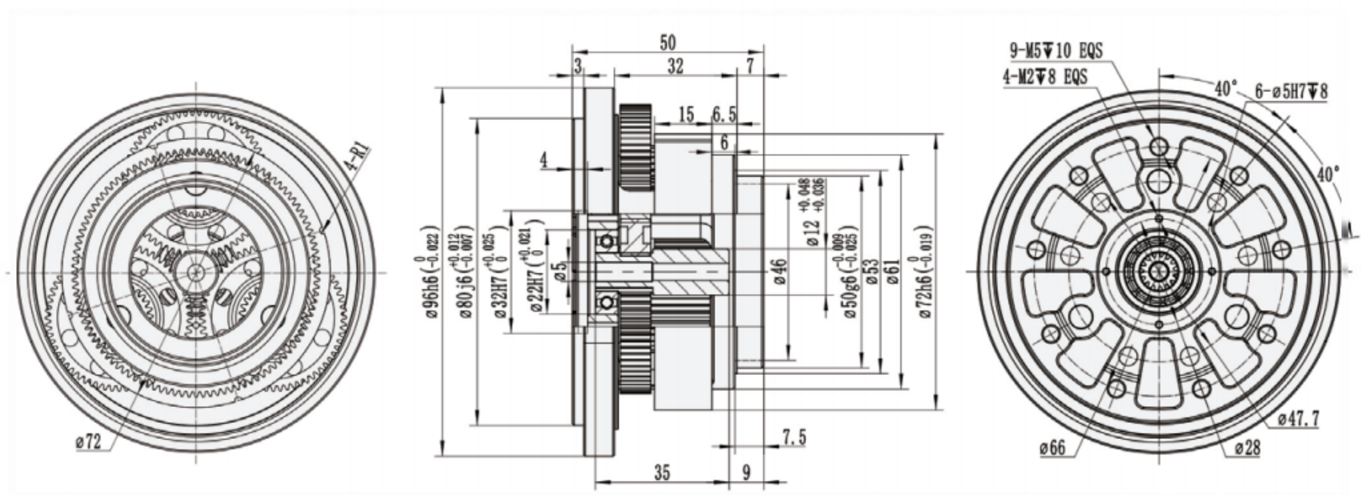
减速比 Ratio	i推荐	32.1:1	容许最大径向负载 Maximum radial load	N	2000
额定承载扭矩 T2B Mominal output torque	Nm	110	容许最大轴向负载 Maximum axial load	N	1000
最大加速力矩 T2B Maximum acceleration torque	Nm	198	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	220	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20 C No-load torque	Nm	⩽0.2	噪音 Noise	dB(A)	⩽68
回程间隙 Backlash	arcmin	⩽12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD90L2-12-P2-OP2-T（mm） A.NTAD.090.02.0002



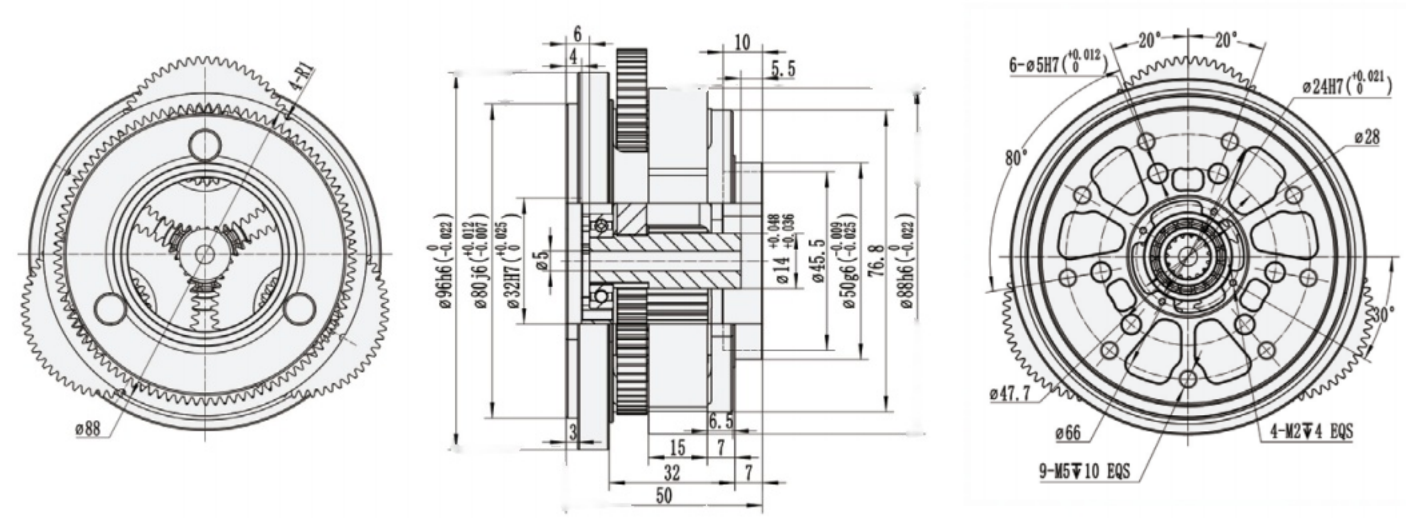
减速比 Ratio	i推荐	12:1	容许最大径向负载 Maximum radia load	N	500
额定承载扭矩 T2B Mominal output torque	Nm	100	容许最大轴向负载 Maximum axial load	N	300
最大加速力矩 T2B Maximum acceleration torque	Nm	200	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	300	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.1	噪音 Noise	dB(A)	⩽65
回程间隙 Backlash	arcmin	⩽12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD90L2-17.457-P2-OP2-T（mm） A.NTAD.090.02.2000



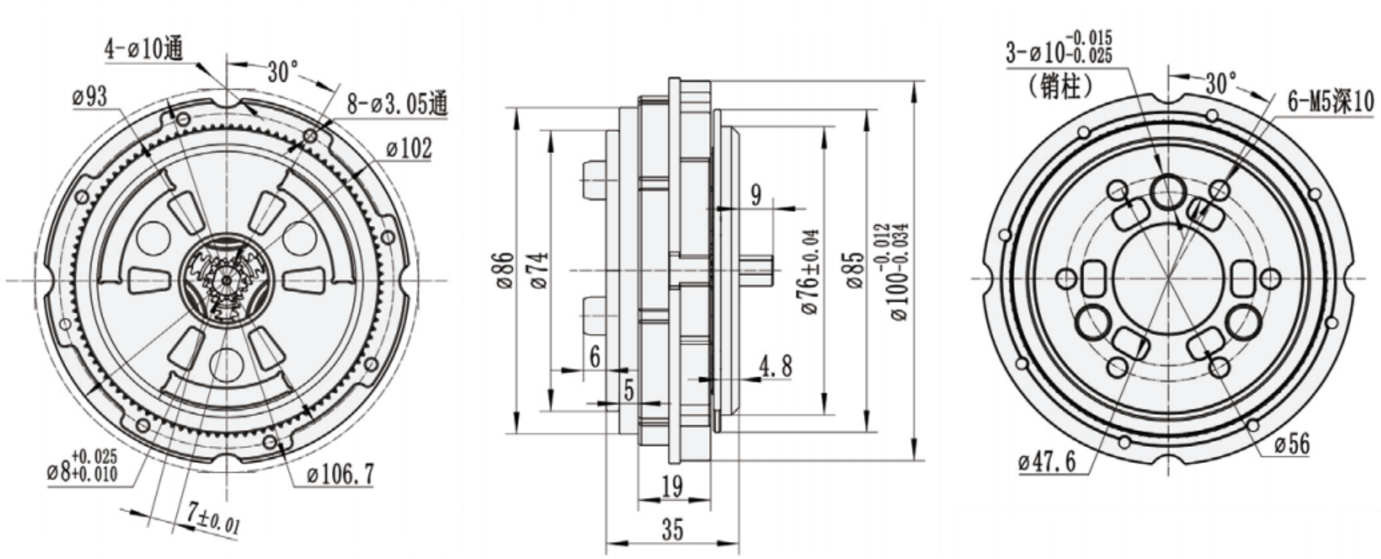
减速比 Ratio	i推荐	17.457:1	容许最大径向负载 Maximum radial load	N	1700
额定承载扭矩 T2B Mominal output torque	Nm	70	容许最大轴向负载 Maximum axial load	N	1700
最大加速力矩 T2B Maximum acceleration torque	Nm	140	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	200	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	1500	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2400	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.5	噪音 Noise	dB(A)	≤65
回程间隙 Backlash	arcmin	≤5	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD90L2-16.312-P2-OP2-T（mm） A.NTAD.090.02.2001



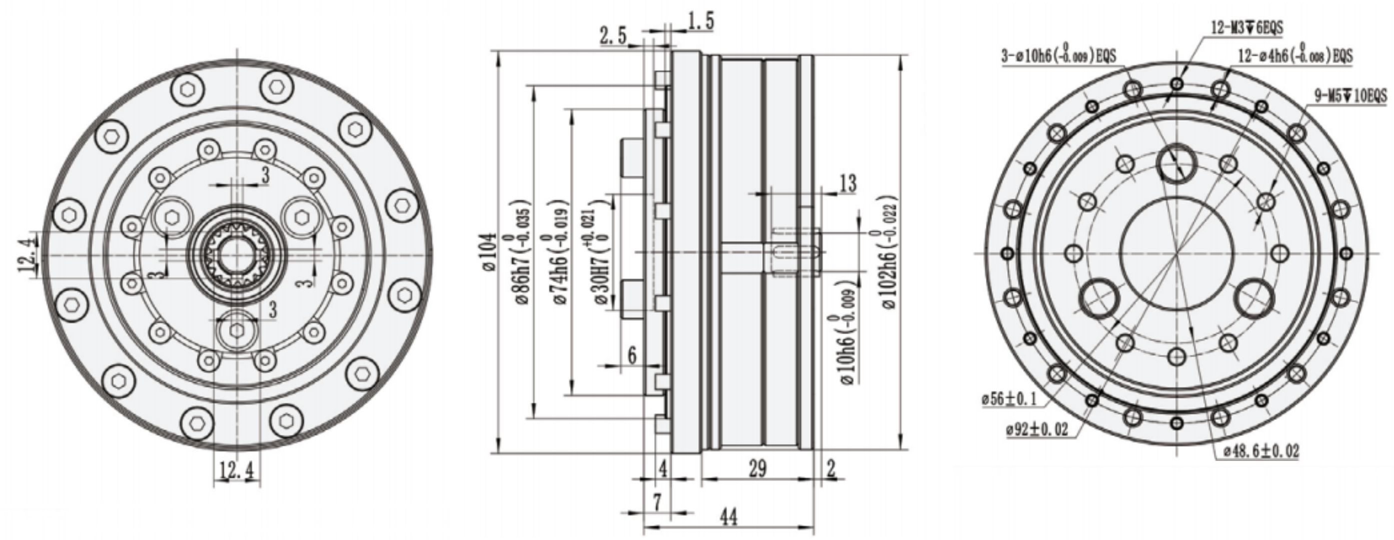
减速比 Ratio	i推荐	16.312:1	容许最大径向负载 Maximum radial load	N	1700
额定承载扭矩 T2B Mominal output torque	Nm	100	容许最大轴向负载 Maximum axial load	N	1700
最大加速力矩 T2B Maximum acceleration torque	Nm	200	使用温度 Use of temperature	℃	(-45℃/+45℃)
急停扭矩 T2Not Sudden stop torque	Nm	300	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.1	噪音 Noise	dB(A)	≤65
回程间隙 Backlash	arcmin	≤5	输入轴锁紧力矩 Input shaft locking torque	Nm	—

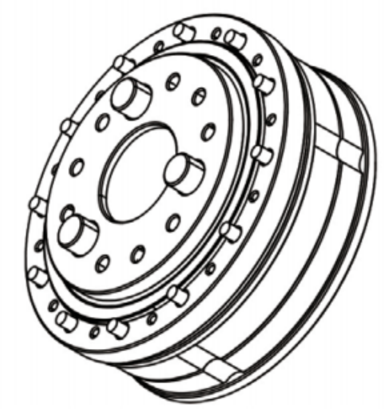
NTAD100L1-9.75-P2-OP2-T (mm) A.NTAD.100.01.0001



减速比 Ratio	i推荐	95:1	容许最大径向负载 Maximum radial load	N	—
额定承载扭矩 T2B Mominal output torque	Nm	160	容许最大轴向负载 Maximum axial load	N	—
最大加速力矩 T2B Maximum acceleration torque	Nm	288	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	480	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	4000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.3	噪音 Noise	dB(A)	⩽65
回程间隙 Backlash	arcmin	⩽7	输入轴锁紧力矩 Input shaft locking torque	Nm	—

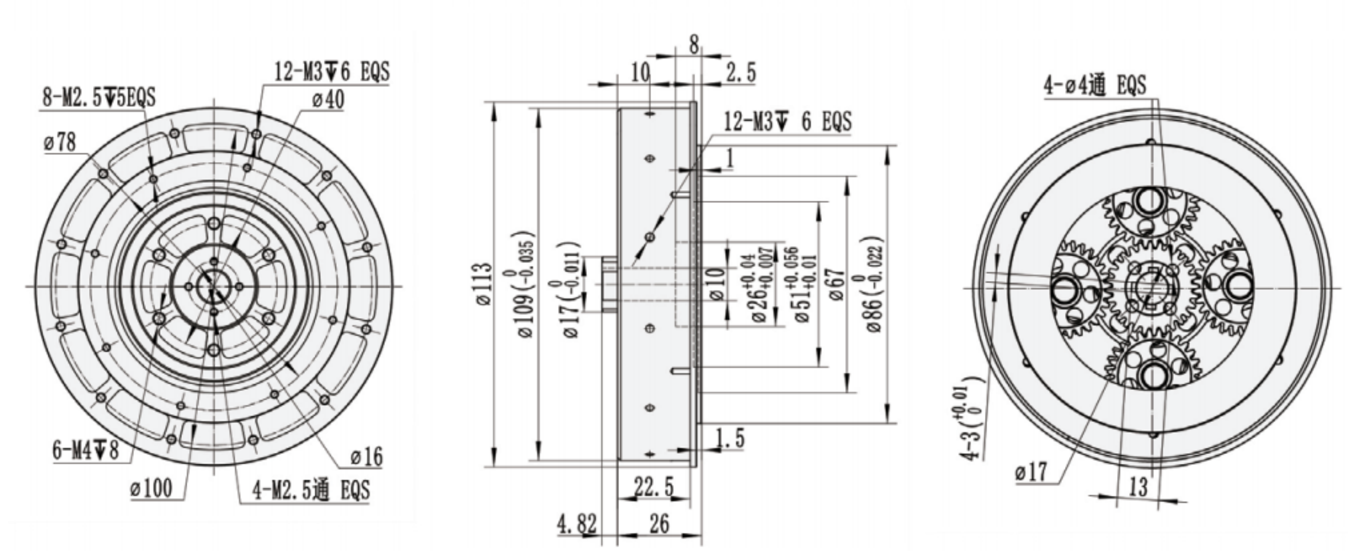
NTAD110L1-7-P2-OP2-T104 (mm) A.NTAD.110.01.0001





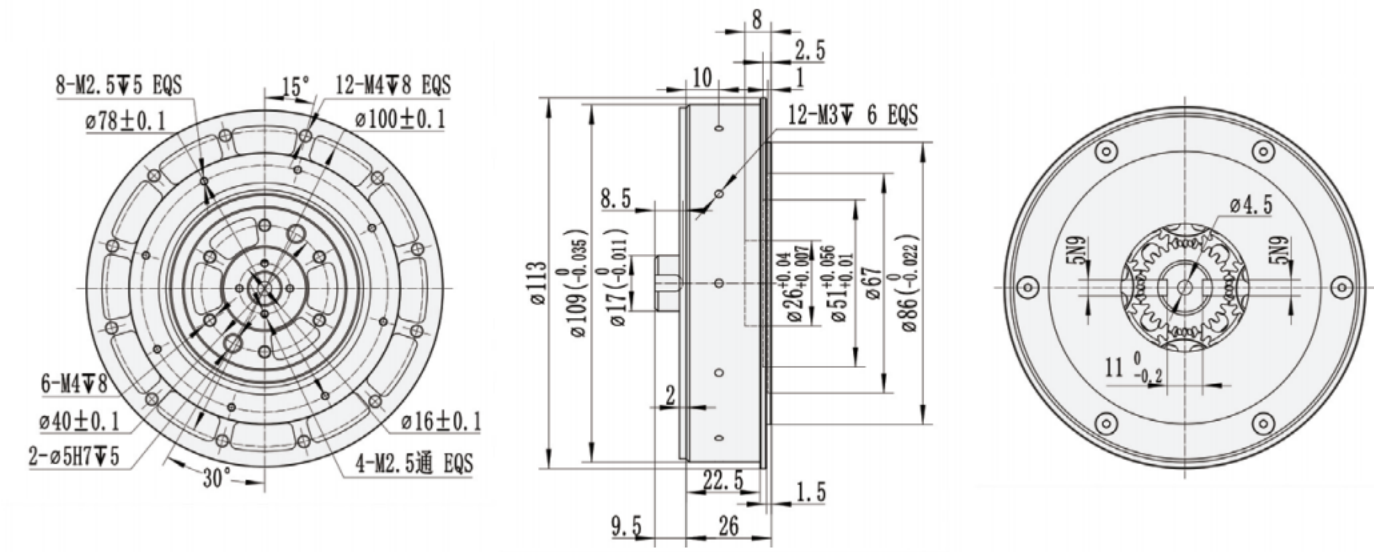
减速比 Ratio	推荐	7:1	容许最大径向负载 Maximum radial load	N	2000
额定承载扭矩 T2B Mominal output torque	Nm	90	容许最大轴向负载 Maximum axial load	N	1000
最大加速力矩 T2B Maximum acceleration torque	Nm	115	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	180	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	210	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	280	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.2	噪音 Noise	dB(A)	⩽65
回程间隙 Backlash	arcmin	⩽1	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD110L2-16-P2-OP2-T（mm） A.NTAD.110.02.0001



减速比 Ratio	i推荐	16:1	容许最大径向负载 Maximum radial load	N	1800
额定承载扭矩 T2B Mominal output torque	Nm	48	容许最大轴向负载 Maximum axial load	N	1200
最大加速力矩 T2B Maximum acceleration torque	Nm	150	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torqu	Nm	180	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	2000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2700	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.2	噪音 Noise	dB(A)	≤68
回程间隙 Backlash	arcmin	≤12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD110L2-16-P2-OP2-T1（mm） A.NTAD.110.02.0002



减速比 Ratio	i推荐	16:1	容许最大径向负载 Maximum radial load	N	1800
额定承载扭矩 T2B Mominal output torque	Nm	48	容许最大轴向负载 Maximum axial load	N	1200
最大加速力矩 T2B Maximum acceleration torque	Nm	150	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	180	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	2000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2700	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.2	噪音 Noise	dB(A)	≤68
回程间隙 Backlash	arcmin	≤12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

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NTAD-64
NTAD-90
NTAD-100
NTAD-110
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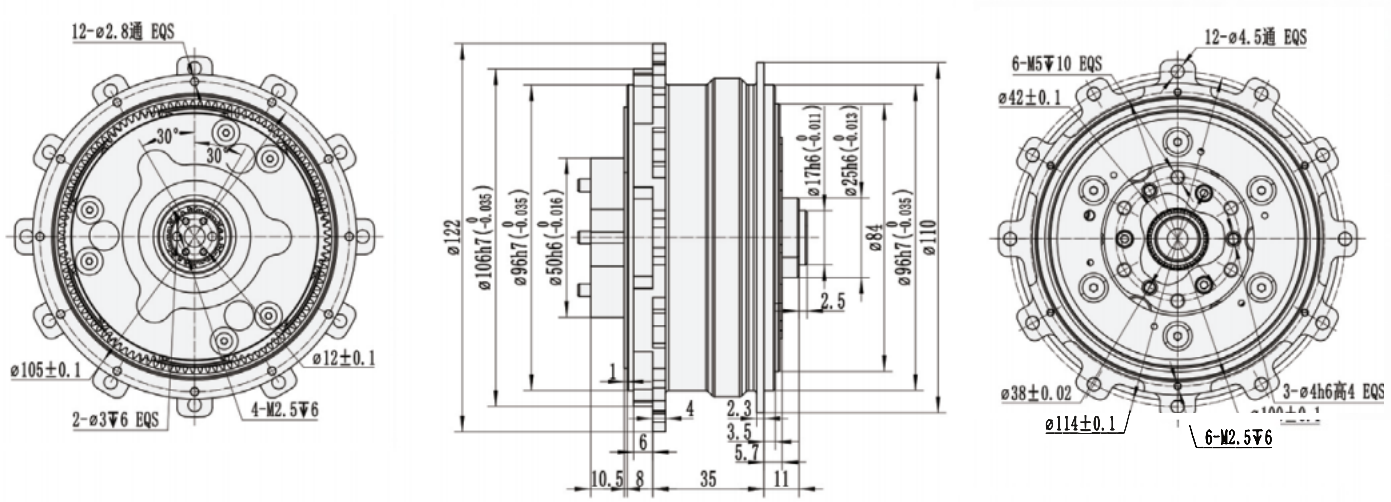
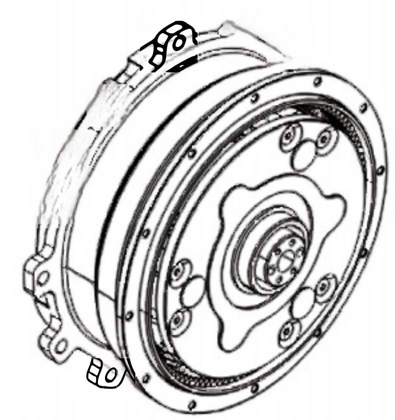
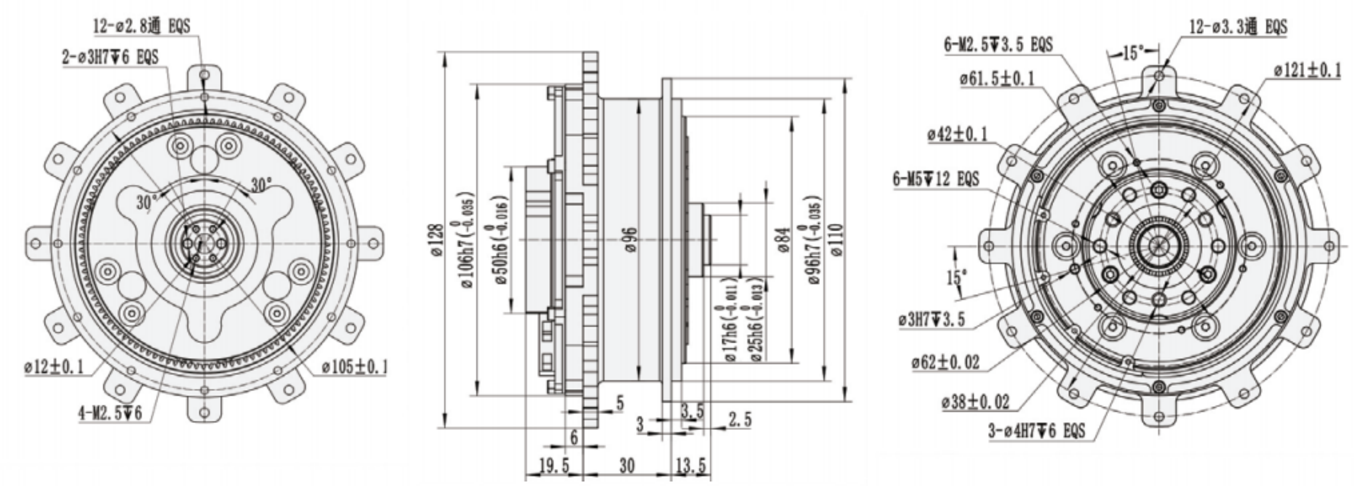
NTAD110L2-32.1-P2-OP2-T (mm) A.NTAD.110.02.0003

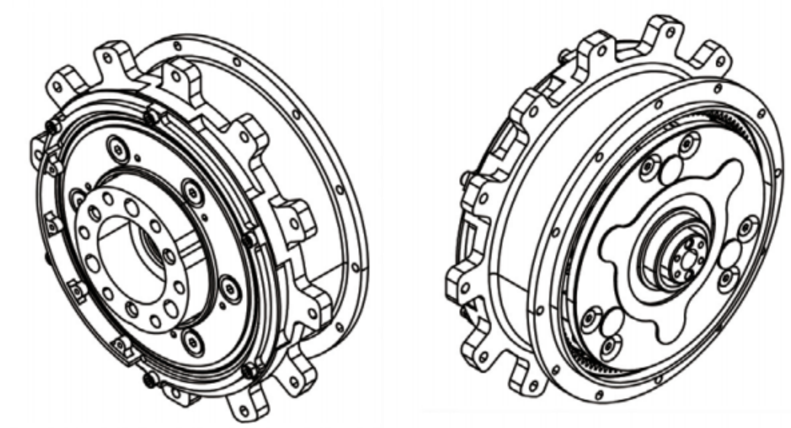




减速比 Ratio	i推荐	32.1:1	容许最大径向负载 Maximum radial load	N	2000
额定承载扭矩 T2B Mominal output torque	Nm	300	容许最大轴向负载 Maximum axial load	N	1000
最大加速力矩 T2B Maximum acceleration torque	Nm	540	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	600	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.2	噪音 Noise	dB(A)	⩽68
回程间隙 Backlash	arcmin	⩽12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD110L2-16-P2-OP2-T (mm) A.NTAD.110.02.0004





减速比 Ratio	i推荐	16:1	容许最大径向负载 Maximum radial load	N	2000
额定承载扭矩 T2B Mominal output torque	Nm	144	容许最大轴向负载 Maximum axial load	N	1000
最大加速力矩 T2B Maximum acceleration torque	Nm	260	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	288	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.2	噪音 Noise	dB(A)	⩽68
回程间隙 Backlash	arcmin	⩽12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

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NTAD-64
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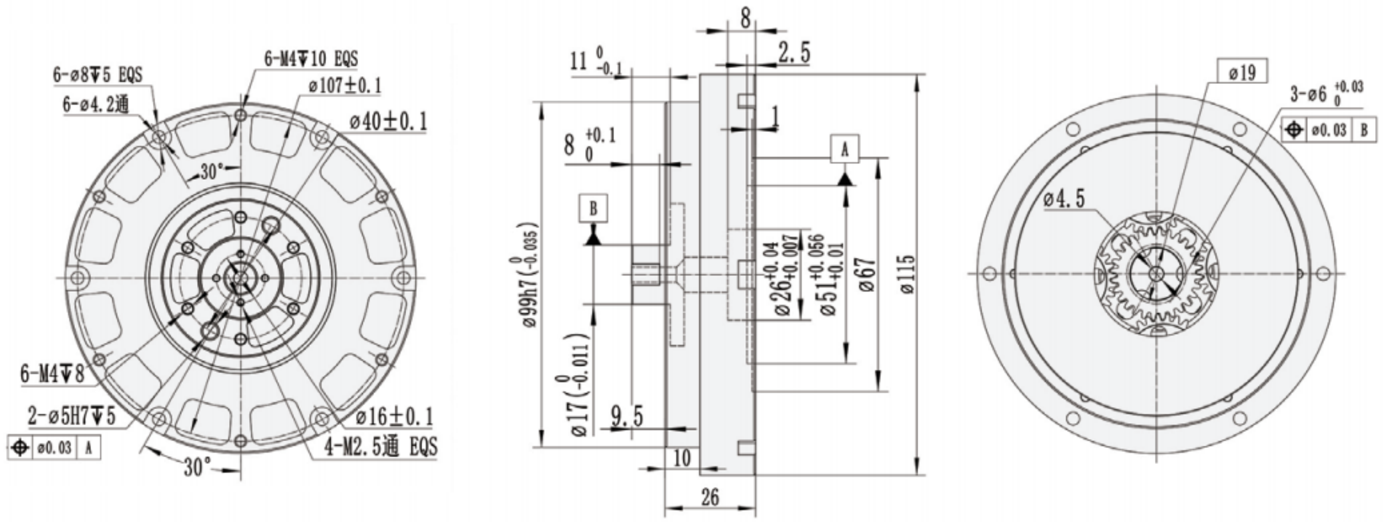
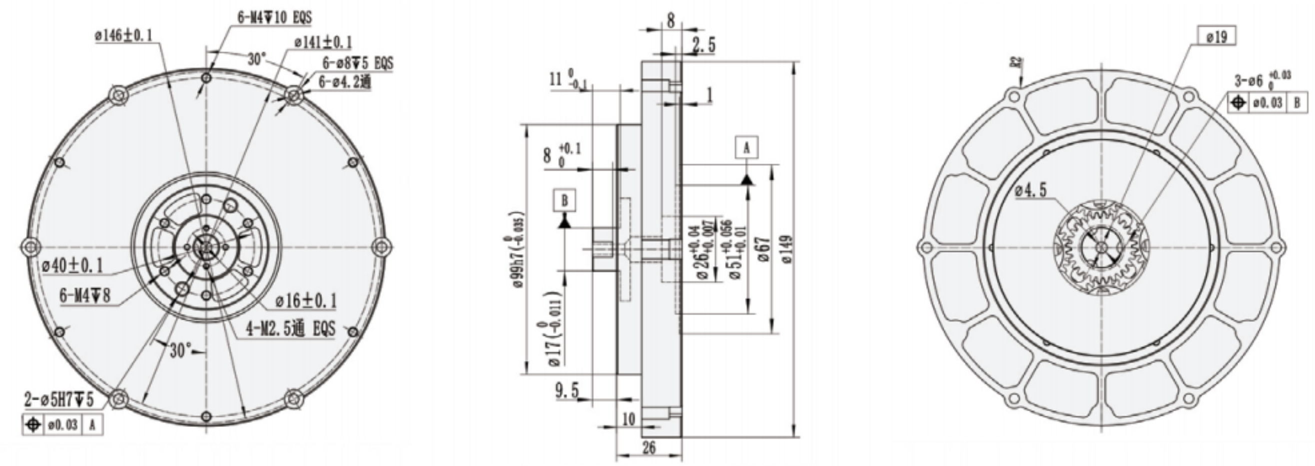
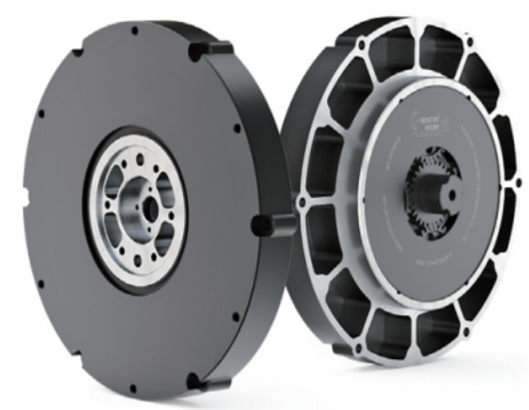
NTAD110L2-16-P2-OP2-T115 (mm) A.NTAD.110.02.0005



减速比 Ratio	i推荐	16:1	容许最大径向负载 Maximum radial load	N	1800
额定承载扭矩 T2B Mominal output torque	Nm	48	容许最大轴向负载 Maximum axial load	N	1200
最大加速力矩 T2B Maximum acceleration torque	Nm	150	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torqu	Nm	180	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	2000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2700	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.2	噪音 Noise	dB(A)	⩽68
回程间隙 Backlash	arcmin	⩽12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

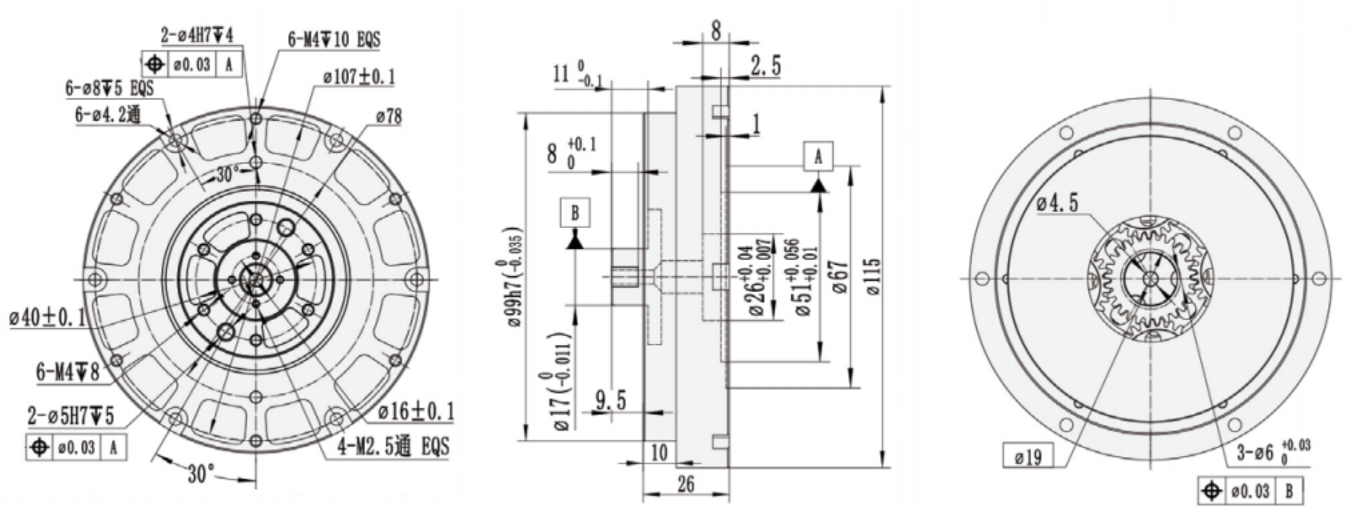
NTAD110L2-16-P2-OP2-T154 (mm) A.NTAD.110.02.0006





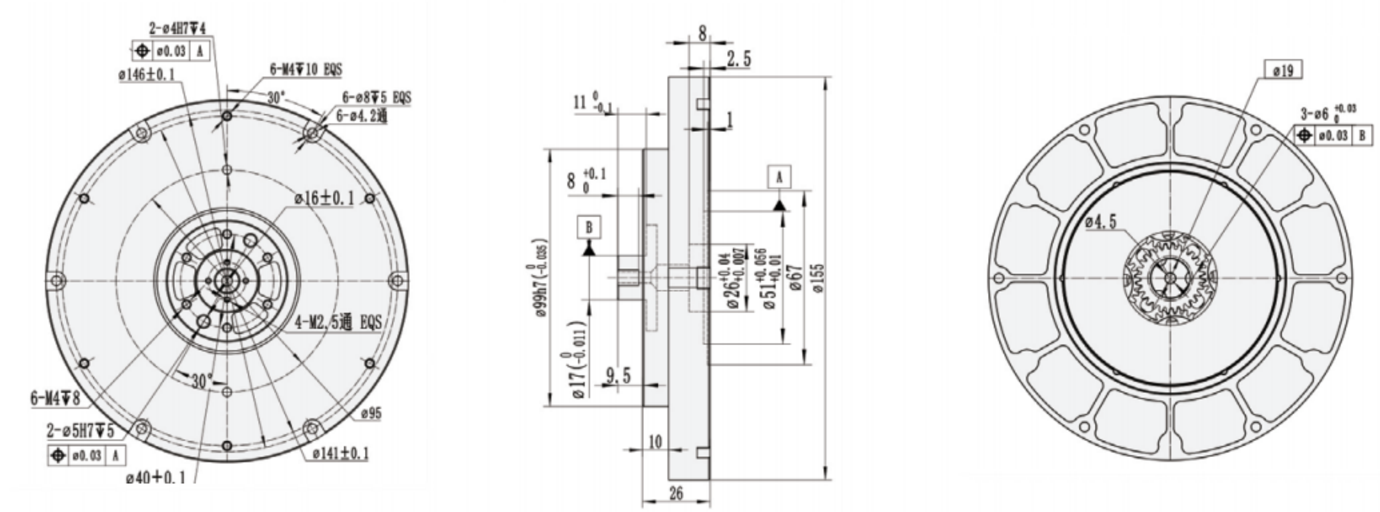
减速比 Ratio	i推荐	16:1	容许最大径向负载 Maximum radial load	N	1800
额定承载扭矩 T2B Mominal output orque	Nm	48	容许最大轴向负载 Maximum axial load	N	1200
最大加速力矩 T2B Maximum acceleration torque	Nm	150	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	180	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	2000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2700	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.2	噪音 Noise	dB(A)	⩽68
回程间隙 Backlash	arcmin	⩽12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD110L2-16-P2-OP2-T115-B2 (mm) A.NTAD.110.02.2002



减速比 Ratio	i推荐	16:1	容许最大径向负载 Maximum radial load	N	1800
额定承载扭矩 T2B Mominal output torque	Nm	48	容许最大轴向负载 Maximum axial load	N	1200
最大加速力矩 T2B Maximum acceleration torque	Nm	150	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torqu	Nm	180	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	2000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2700	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.2	噪音 Noise	dB(A)	⩽68
回程间隙 Backlash	arcmin	⩽12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD110L2-16-P2-OP2-T154-B2 (mm) A.NTAD.110.02.2003



减速比 Ratio	i推荐	16:1	容许最大径向负载 Maximum radial load	N	1800
额定承载扭矩 T2B Mominal output torque	Nm	48	容许最大轴向负载 Maximum axial load	N	1200
最大加速力矩 T2B Maximum acceleration torque	Nm	150	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	180	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	2000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2700	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.2	噪音 Noise	dB(A)	⩽68
回程间隙 Backlash	arcmin	⩽12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

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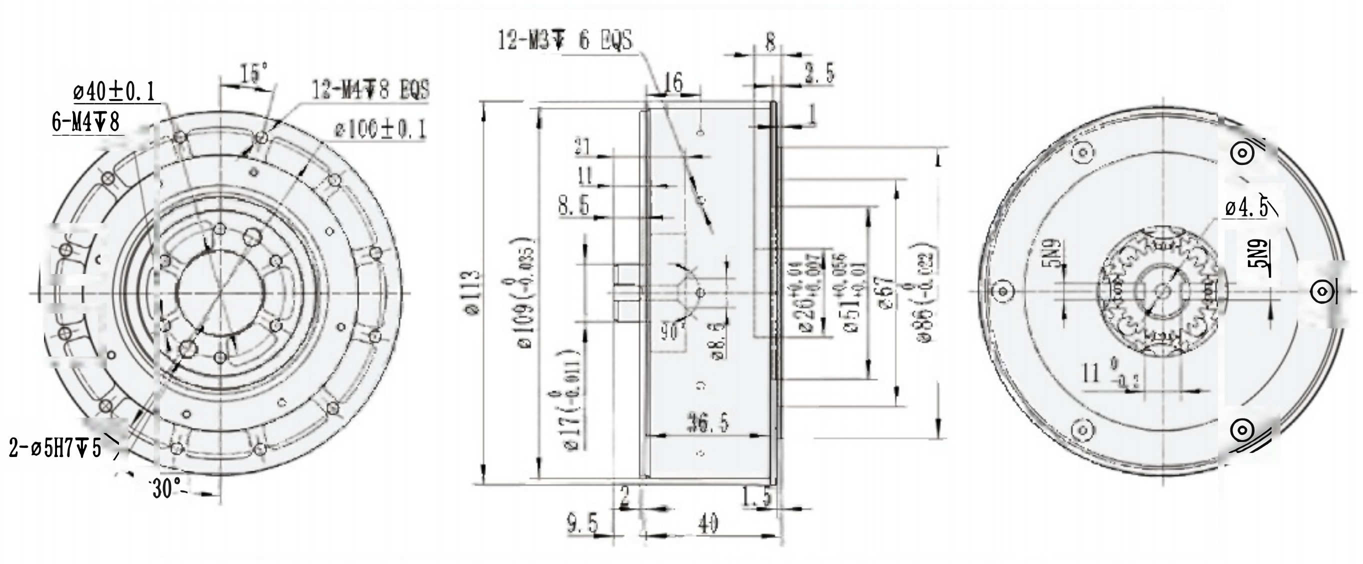
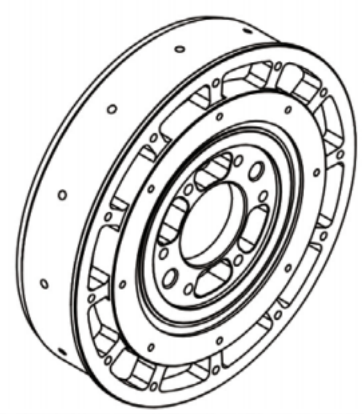
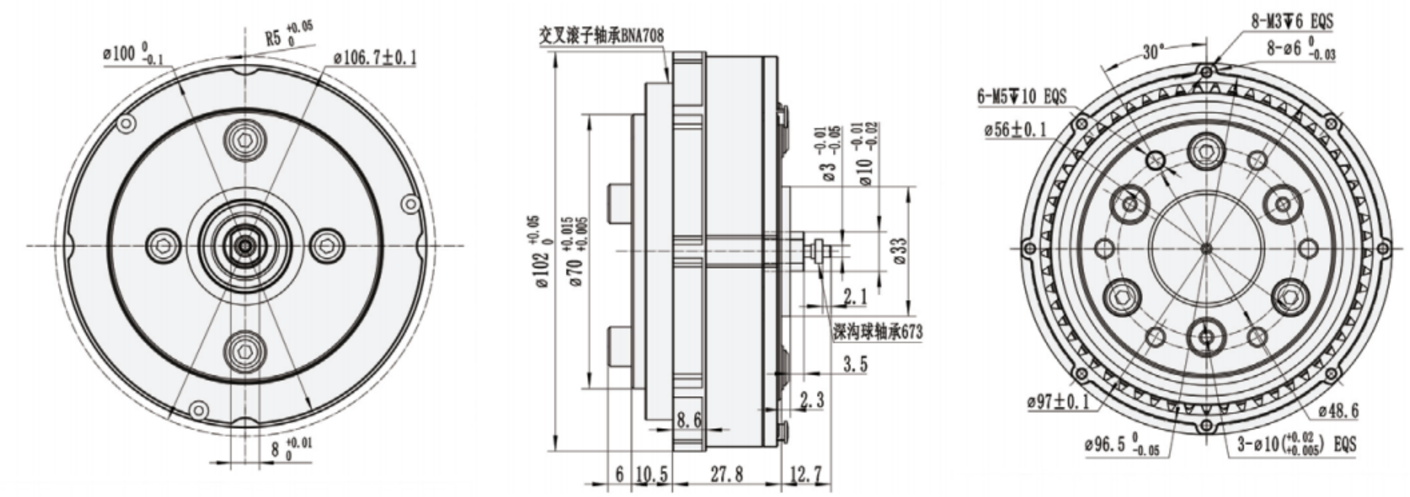
NTAD110L2-16-P2-OP2-T2（mm） A.NTAD.110.02.2004





减速比 Ratio	i推荐	16:1	容许最大径向负载 Maximum radial load	N	1800
额定承载扭矩 T2B Mominal output torque	Nm	100	容许最大轴向负载 Maximum axial load	N	1200
最大加速力矩 T2B Maximum acceleration torque	Nm	200	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	300	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	2000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2700	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.2	噪音 Noise	dB(A)	≤68
回程间隙 Backlash	arcmin	≤12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD110L2-13.8-P2-OP2-T（mm） A.NTAD.110.02.2005



减速比 Ratio	i推荐	13.8:1	容许最大径向负载 Maximum radial load	N	1000
额定承载扭矩 T2B Mominal output torque	Nm	105	容许最大轴向负载 Maximum axial load	N	1000
最大加速力矩 T2B Maximum acceleration torque	Nm	189	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	315	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	1100	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2200	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.15	噪音 Noise	dB(A)	≤65
回程间隙 Backlash	arcmin	≤25	输入轴锁紧力矩 Input shaft locking torque	Nm	—

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NTAD-64
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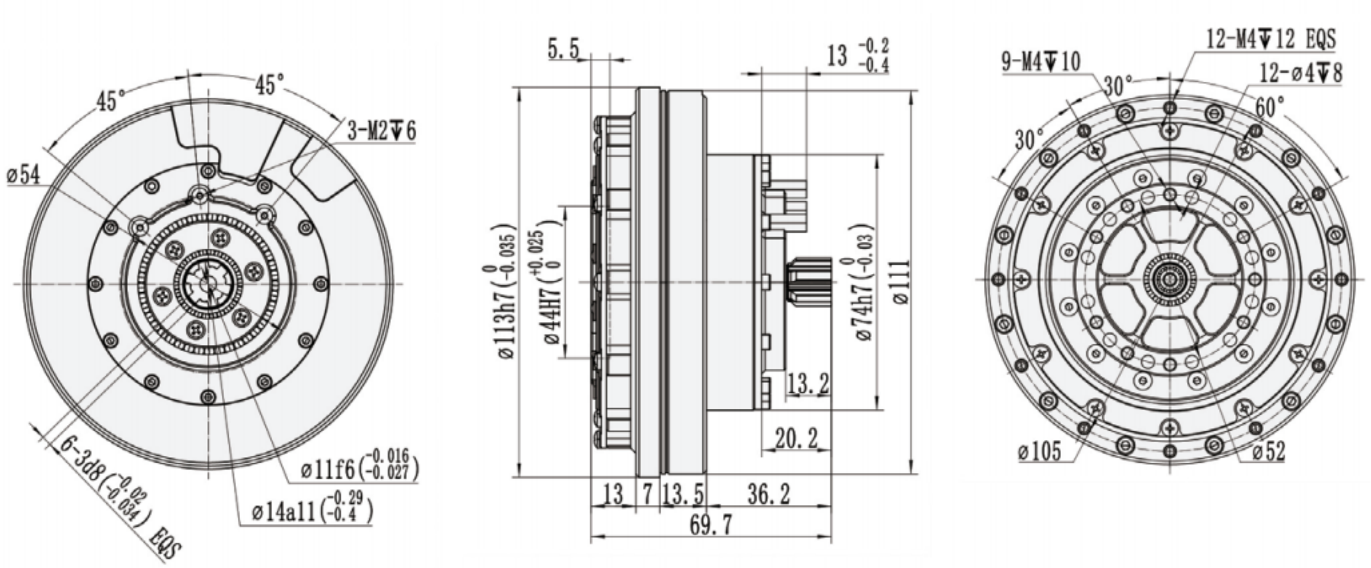
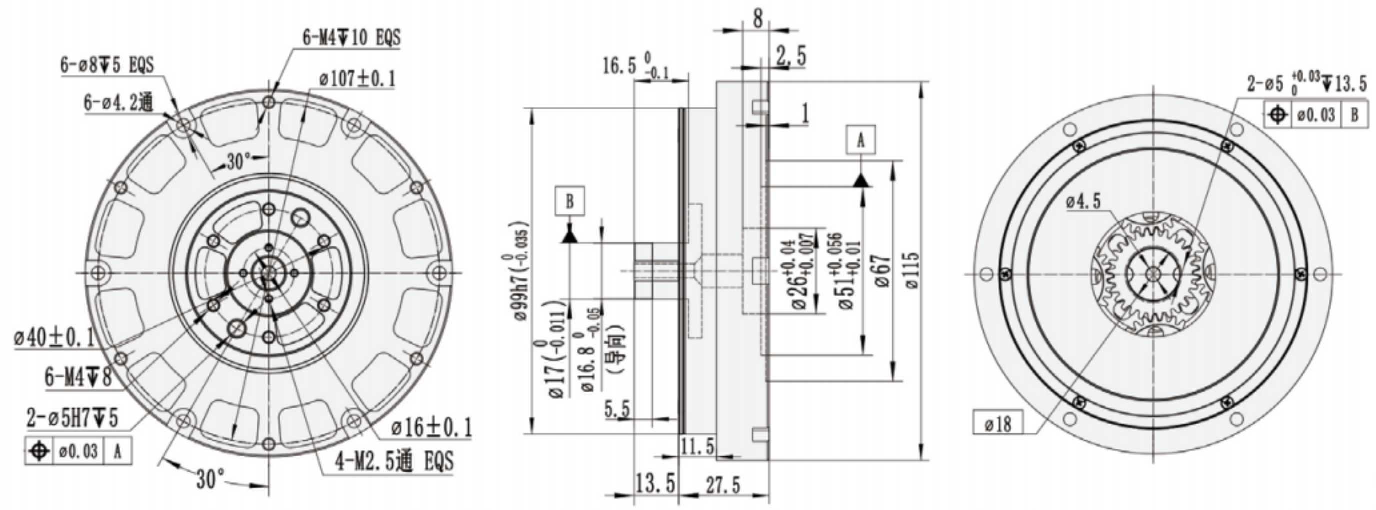
NTAD110L2-18.5-P2-OP2-T（mm） A.NTAD.110.02.2006



减速比 Ratio	i推荐	18.5:1	容许最大径向负载 Maximum radial load	N	2000
额定承载扭矩 T2B Mominal output torque	Nm	200	容许最大轴向负载 Maximum axial load	N	2000
最大加速力矩 T2B Maximum acceleration torque	Nm	300	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torqu	Nm	600	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	2000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	4000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.15	噪音 Noise	dB(A)	≤68
回程间隙 Backlash	arcmin	≤10	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD110L2-16-P2-OP2-T115-2（mm） A.NTAD.110.02.2007



减速比 Ratio	i推荐	16:1	容许最大径向负载 Maximum radial load	N	1800
额定承载扭矩 T2B Mominal output torque	Nm	48	容许最大轴向负载 Maximum axial load	N	1200
最大加速力矩 T2B Maximum acceleration torque	Nm	150	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	180	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	2000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2700	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	≤0.2	噪音 Noise	dB(A)	≤68
回程间隙 Backlash	arcmin	≤12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

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NTAD-64
NTAD-90
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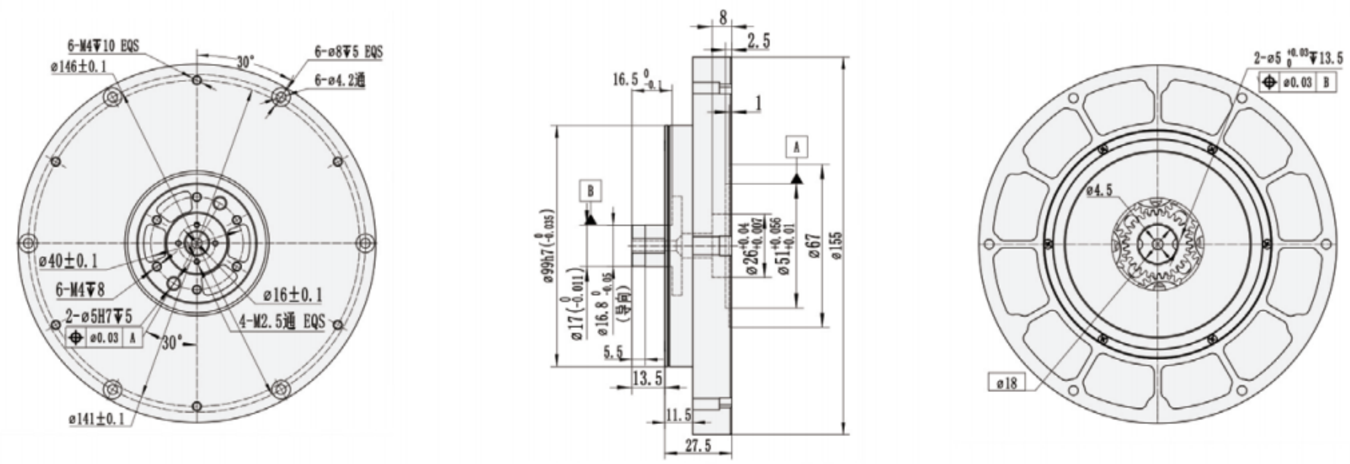
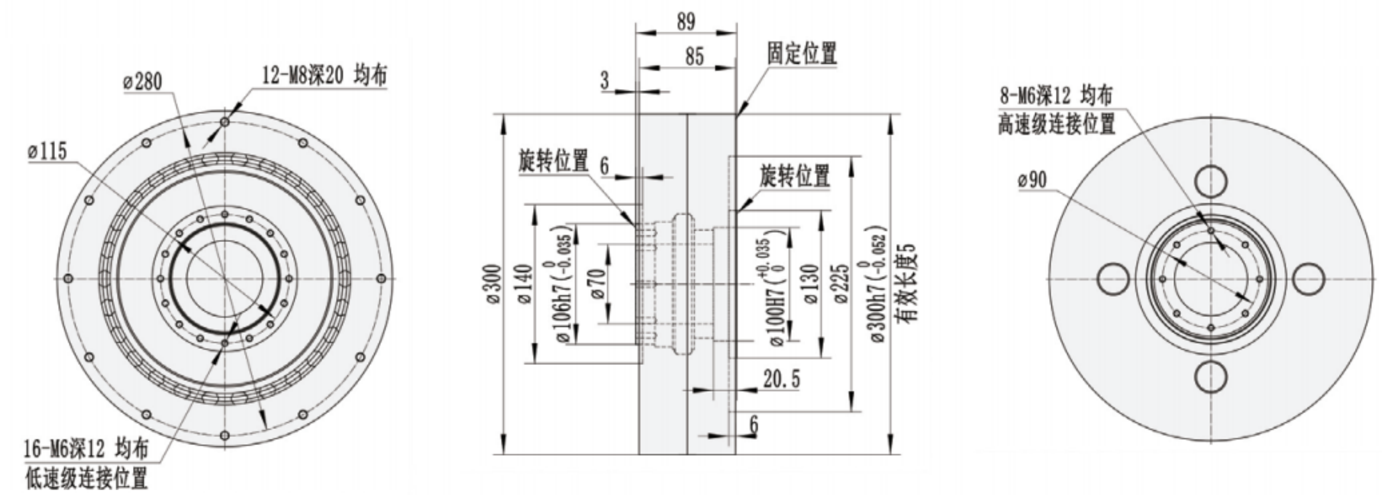
NTAD110L2-16-P2-OP2-T154-2（mm） A.NTAD.110.02.2008



减速比 Ratio	i推荐	16:1	容许最大径向负载 Maximum radial load	N	1800
额定承载扭矩 T2B Mominal output torque	Nm	48	容许最大轴向负载 Maximum axial load	N	1200
最大加速力矩 T2B Maximum acceleration torque	Nm	150	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	180	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	2000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2700	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.2	噪音 Noise	dB(A)	⩽68
回程间隙 Backlash	arcmin	⩽12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD300L1-2-P2-OP2-T（mm） A.NTAD.300.01.2000



减速比 Ratio	i推荐	2:1	容许最大径向负载 Maximum radial load	N	2000
额定承载扭矩 T2B Mominal output torque	Nm	50	容许最大轴向负载 Maximum axial load	N	2000
最大加速力矩 T2B Maximum acceleration torque	Nm	75	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	150	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	4500	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽4	噪音 Noise	dB(A)	⩽70
回程间隙 Backlash	arcmin	⩽10	输入轴锁紧力矩 Input shaft locking torque	Nm	—

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NTAD-64
NTAD-90
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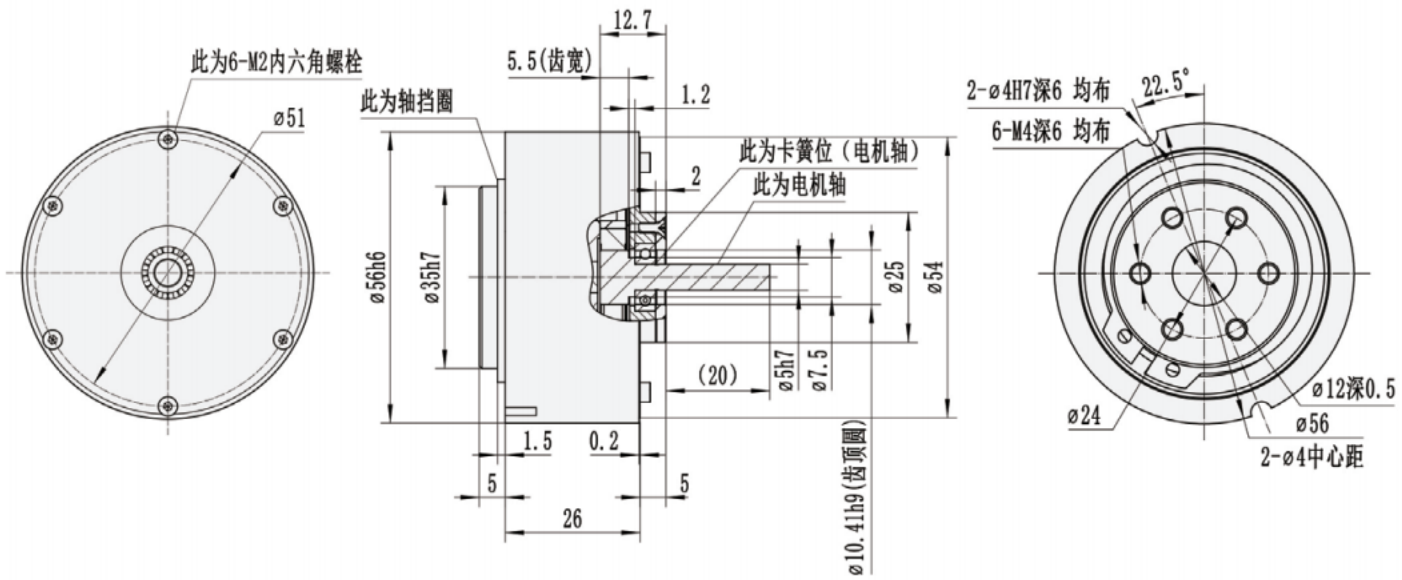
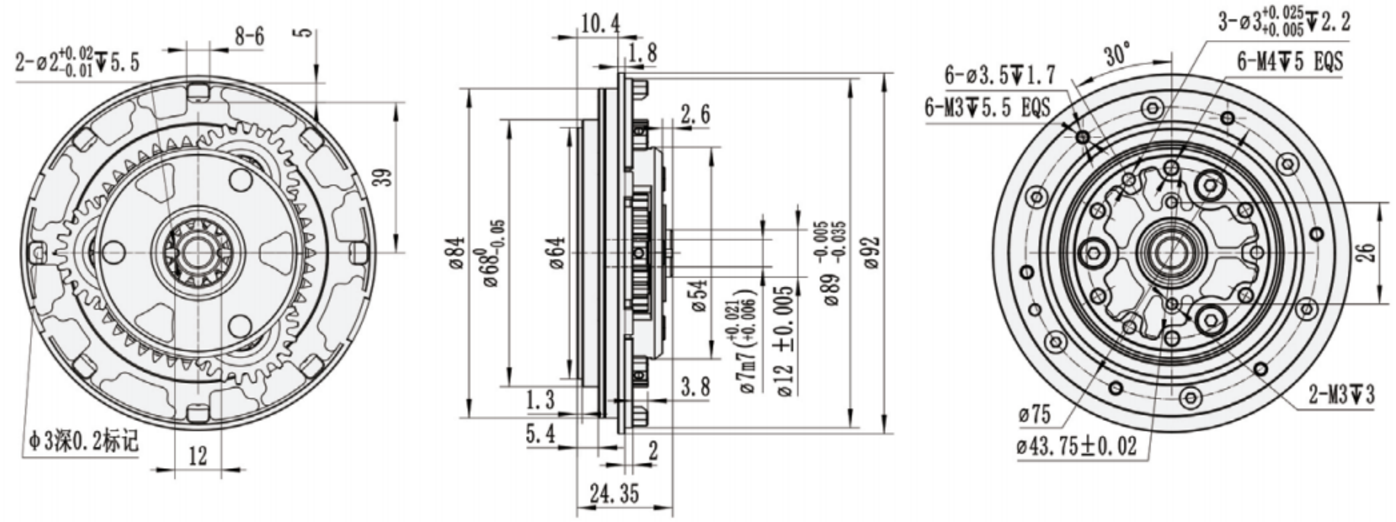
NT50L2-50-P2-T（mm） A.NT.050.02.0002



减速比 Ratio	i推荐	50:1	容许最大径向负载 Maximum radial load	N	150
额定承载扭矩 T2B Mominal output torque	Nm	16	容许最大轴向负载 Maximum axial load	N	150
最大加速力矩 T2B Maximum acceleration torque	Nm	32	使用温度 Use of temperature	℃	(-15℃/+40℃)
急停扭矩 T2Not Sudden stop torque	Nm	48	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.1	噪音 Noise	dB(A)	⩽65
回程间隙 Backlash	arcmin	⩽15	输入轴锁紧力矩 Input shaft locking torque	Nm	—

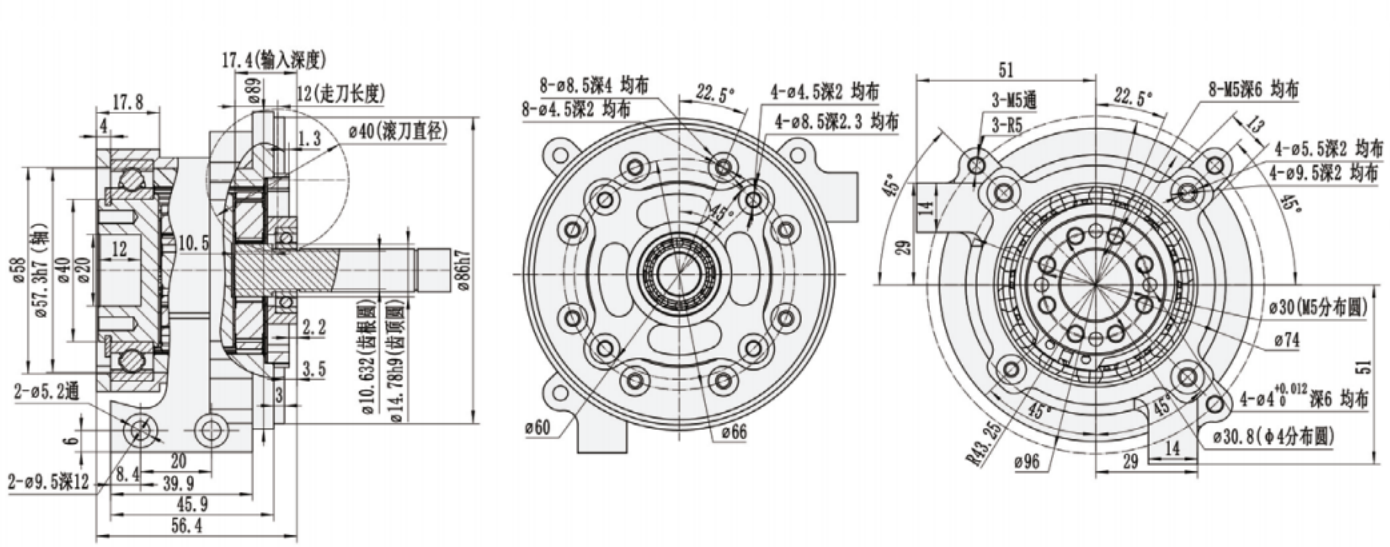
NT60L2-9.625-T（mm） A.NT.060.02.0097

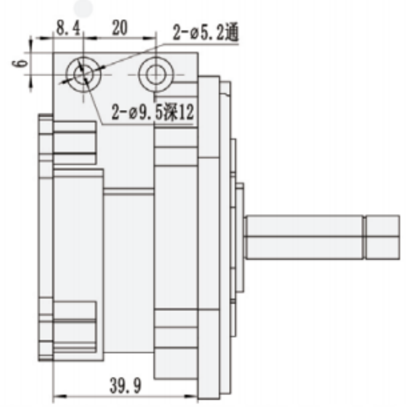


减速比 Ratio	i推荐	9.625:1	容许最大径向负载 Maximum radial load	N	3490
额定承载扭矩 T2B Mominal output torque	Nm	15	容许最大轴向负载 Maximum axial load	N	2430
最大加速力矩 T2B Maximum acceleration torque	Nm	27	使用温度 Use of temperature	℃	(-15℃/+90℃)
急停扭矩 T2Not Sudden stop torque	Nm	30	使用寿命 Service life	h	⩾20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	⩽0.1	噪音 Noise	dB(A)	⩽65
回程间隙 Backlash	arcmin	⩽15	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NTAD-32
NTAD-64
NTAD-90
NTAD-100
NTAD-110
NT-50
NT-60
NT-90
NT-94
NT-120

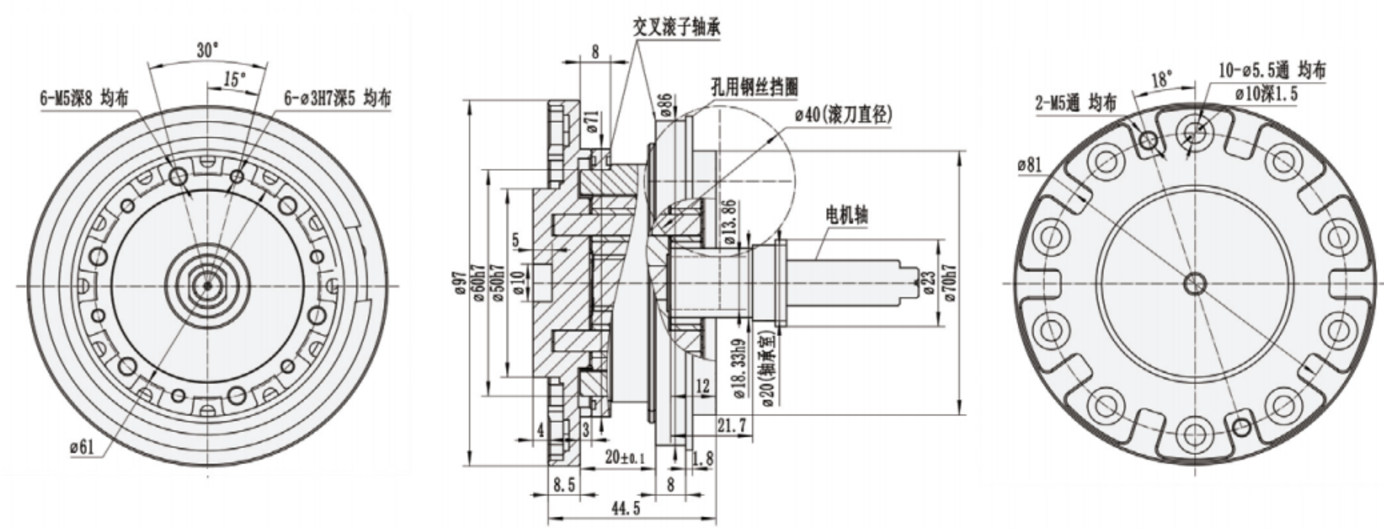
NT90L2-25-P2-T（mm） A.NT.090.02.0055





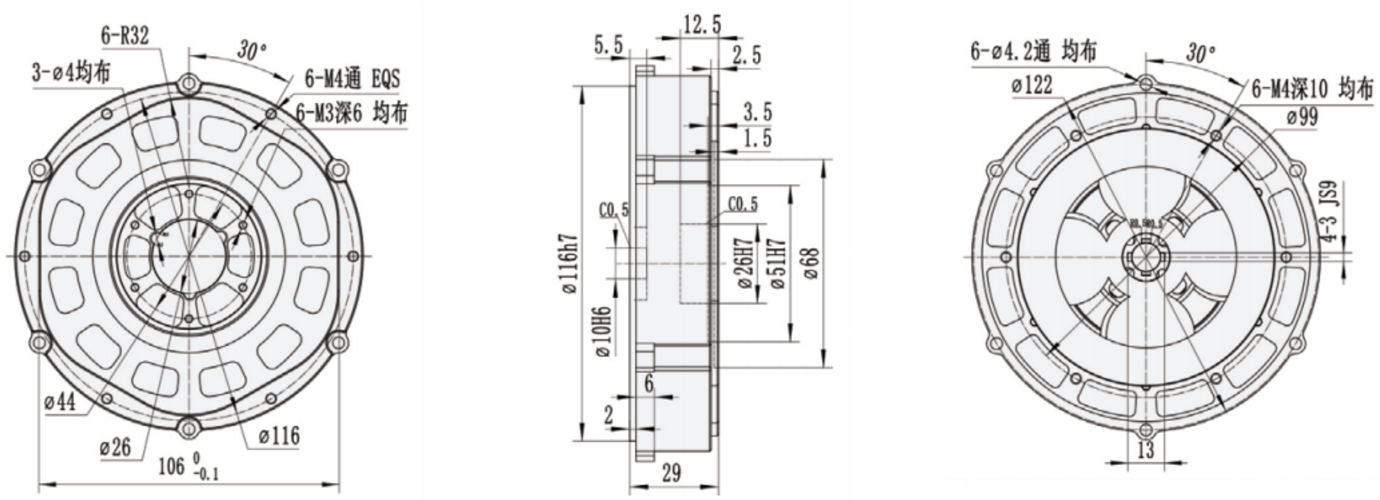
减速比 Ratio	i推荐	25:1	容许最大径向负载 Maximum radial load	N	—
额定承载扭矩 T2B Mominal output torque	Nm	40	容许最大轴向负载 Maximum axial load	N	—
最大加速力矩 T2B Maximum acceleration torque	Nm	80	使用温度 Use of temperature	℃	(-15℃/+40℃)
急停扭矩 T2Not Sudden stop torque	Nm	120	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torqu	Nm	≤0.1	噪音 Noise	dB(A)	≤65
回程间隙 Backlash	arcmin	≤15	输入轴锁紧力矩 Input shaft locking torque	Nm	—

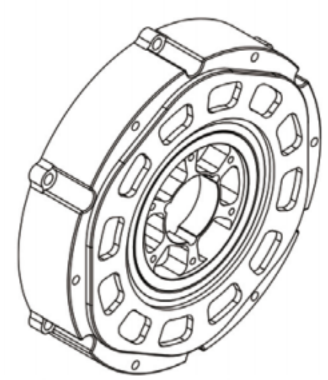
NT94L2-16-P2-T（mm） A.NT.094.02.0003



减速比 Ratio	推荐	16:1	容许最大径向负载 Maximum radial load	N	—
额定承载扭矩 T2B Mominal output torque	Nm	40	容许最大轴向负载 Maximum axial load	N	—
最大加速力矩 T2B Maximum acceleration torque	Nm	80	使用温度 Use of temperature	C	(-15℃/+40℃)
急停扭矩 T2Not Sudden stop torque	Nm	120	使用寿命 Service life	h	≥20000
额定输入转速 Nominal input speed	rpm	3000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	6000	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torqu	Nm	≤0.1	噪音 Noise	dB(A)	≤65
回程间隙 Backlash	arcmin	≤15	输入轴锁紧力矩 Input shaft locking torque	Nm	—

NT120L2-16-P2-OP2-T（2.1） (mm)　　A.NT.120.02.0004





减速比 Ratio	i推荐	16:1	容许最大径向负载 Maximum radial load	N	1800
额定承载扭矩 T2B Mominal output torque	Nm	48	容许最大轴向负载 Maximum axial load	N	1200
最大加速力矩 T2B Maximum acceleration torque	Nm	150	使用温度 Use of temperature	℃	(-15℃/+40℃)
急停扭矩 T2Not Sudden stop torque	Nm	180	使用寿命 Service life	h	≥3000
额定输入转速 Nominal input speed	rpm	2000	防护等级 Protection grade		IP54
最大输入转速 Maximum input speed	rpm	2700	润滑 Lubrication		synthetic grease
空载力矩20℃ No-load torque	Nm	—	噪音 Noise	dB(A)	≤68
回程间隙 Backlash	arcmin	≤12	输入轴锁紧力矩 Input shaft locking torque	Nm	—

故障原因及解决办法 / Fault reasons and resolents

故障现象 Fault status	可能原因 Possible cause		解决办法 Resolvent:	
漏油 Oil leakage	由封磨损或O型圈老化	Oil seal wear or O-ring aging	更换密封件	Replace seal
	紧固件松动	Loose fastener	重新紧固所有紧固件	Retighten all fasteners
	油封安装不当	Oil seal is improperly installed	重新安装油封	Reinstall the oil seal
	润滑油/润滑脂量不佳	Poor amount of oil/grease	使用合适的润滑油/脂	Use suitable lubricants/greases
	润滑油/润滑脂过量	Excessive lubricating oil/grease	控制油量，避免过多	Fat reduction and oil control
减速机异响 Reducer abnormal sound	齿轮磨损或损坏	Gear worn or damaged	检查齿轮磨损情况并更换	Check for wear and replace
	轴承损坏	Bearing failure	更换轴承	Bearing replacement
	润滑不良	Insufficient lubrication	确保足够的润滑油	Ensure adequate lubrication
	异物进入	Foreign body entry	检查内部异物，并保持清洁	Check inside and keep it clean
	电机安装不良	Motor installation error	拆卸电机，按要求重新装配	Remove motor and reassemble
过热 Over heated	负载过大	Overload	确保不超过额定负载	Not exceeding the rated load
	润滑不良	Poor lubrication	改善润滑	Improved lubrication
	散热不良	Poor heat dissipation	提高散热效果	Improve heat dissipation effect
减速比不准确 Ratio is not accurate	齿轮磨损	Gear wear	更换磨损的齿轮	Replace worn gears
	安装误差	Setting error	重新校准安装	Recalibration mounting
	内部连接失效	Internal connection failure	换连接失效零件	Replace failed parts
扭矩输出不稳定 Torque output is unstable	轴承损坏	Bearing failure	更换损坏的轴承	Replace damaged bearings
	齿轮啮合不精确	Inaccurate engagement	调整齿轮啮合	Adjusting gear mesh
	轴弯曲或磨损	Shaft is bent or worn	校直或更换轴	Straighten or replace the shaft
回程间隙过大 Backgap backlash excessive	齿轮磨损	Gear wear	更换磨损的齿轮	Replace worn gears
	轴承磨损	Bearing wear	更换磨损的轴承	Replace worn bearings
	安装不当	Improper installation	重新调整安装	Readjust installation
传动效率下降 Transmission efficiency decline	齿轮磨损	Bearing failure	更换磨损的齿轮	Replace worn gears
	润滑不良	Insufficient lubrication	改善润滑	Improved lubrication
	内部摩擦增加	Internal friction enhancement	检查内部摩擦源	Check internal friction sources
轴承损坏 Bearing failure	润滑不足	Insufficient lubrication	定期更换润滑油	Time replace lubricating oil
	轴向力或者径向力过载	Axial or radial force overload	避免过载	Avoid overload
	污染或异物进入	Foreign body entry	保持清洁，避免污染	Keep clean and avoid pollution
齿轮断裂 Gear break	严重过载或冲击	Severe overload or shock	避免超负荷运行	Avoid overloading
	材料或热处理质量问题	Quality problem	使用高质量材料	Use high quality materials
	选型安全系数过小	Low safety factor	重新选型减速机	Re-select the reducer
输出轴断轴 Output shaft broken shaft	安装不当	Improper installation	正确安装	Install properly
	轴向力或径向力过载	Iradial/axial load overload	避免过载	Avoid overload
	材料缺陷	Material defect	定期检查轴的磨损情况	Check the shaft regularly for wear