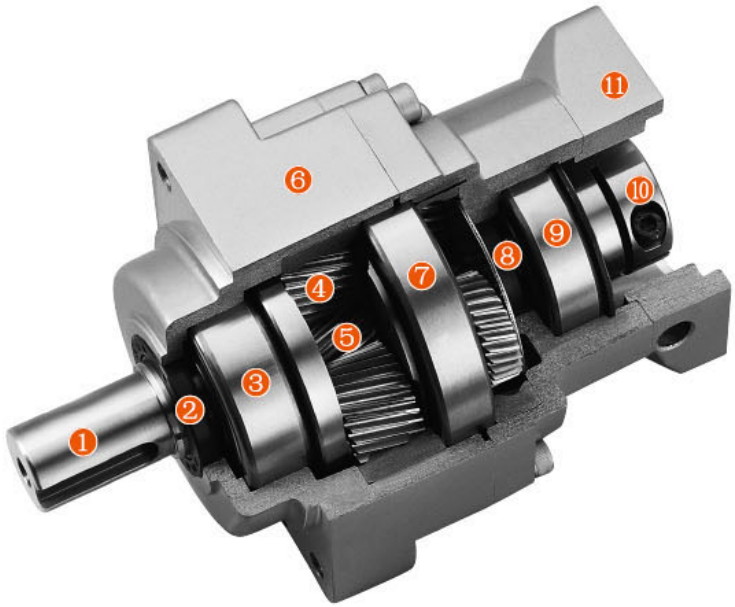
ZDR系列减速机
ZDR SERIES GEAR BOX

剖视图 SECTIONAL DRAWING



① 输出轴 Output shaft
② 油封 Seal for the output shaft
③ 输出轴前轴承 Bearing for the output shaft
④ 行星轮 Planetary gear
⑤ 太阳轮 Sunwheel
⑥ 前盖 Front cover
⑦ 输出轴后轴承 Bearing for the output shaft
⑧ 油封 Seal for the input shaft
⑨ 输入轴轴承 Bearing for the input shaft
⑩ 精密装夹系统 Precision clamping system
⑪ 后盖 rear cover

■ 系列号、机型标识说明 Type and model number

ZDR减速机 ZDR Reducers						伺服电机Servo Motor	
78	ZDR	20	( )	(S)	- 750	T1	□
①	②	③	④	⑤	⑥	⑦	⑧

①	减速机机座号: 78	Gear head frame size: 78
②	减速机系列代号: ZDR	Gear head series code: ZDR
③	减速比： 单级3, 4, 5, 6, 7, 8, 9, 10； 两级15, 20, 25, 35, 45, 81	Gear ratio: Single stage 3, 4, 5, 6, 7, 8, 9, 10, Two stages 15, 20, 25, 35, 45, 81
④	精度Amount of backlash: 输出轴负荷量为容许输出扭矩的±5%时的值。 Precision(the load of output shaft is ±5% of allowable output torque)	

机座号 reducer type no.	级数 Stage	标准型 Standard type	精密型P1 Low-backlash type	高精密型P2 High precision type
52	1	12分arc-min	10分arc-min	3分arc-min
	2	15分arc-min	12分arc-min	5分arc-min
78	1	8分arc-min	5分arc-min	3分arc-min
	2	12分arc-min	8分arc-min	5分arc-min
98	1	8分arc-min	5分arc-min	3分arc-min
	2	12分arc-min	8分arc-min	5分arc-min
125	1	8分arc-min	5分arc-min	3分arc-min
	2	12分arc-min	8分arc-min	5分arc-min

⑤	输入轴型式	input shaft type
	S: 整体锁紧(省略)(无论马达是否有键槽都可使用,但"D"字型不适用)	S: Overall locking (Omission)(regardless whether the motor with keyway can use it. But D Cut can't use)
	S1:带锁紧环锁紧(无论马达是否有键槽都可使用,但"D"字型不适用)	S1:Locking with locking ring (regardless whether the motor with keyway can use it. But D Cut can't use)
	S2: 带键槽锁紧(输入轴带键)	S2: Locking with keyway (input shaft with key)
	K: 带键槽	K: with keyway
	A: 其他适配器(请与本公司联系)	A: Other type (please contact with us)
⑥	适用伺服马达功率(W)	applicable servo motor power(W)
⑦	伺服马达厂家名称(P188)	manufacturer name of servo motor(P188)
⑧	伺服马达型号	model of servo motor

ZDR减速比、机座号
ZDR REDUCTION RATIO & TYPE NUMBER

■ 输入转速为3000rpm时 When input speed is 3000rpm

减速比Reduction ratio / 马达功率Motor power(W)	单级减速 1 stage reduction			两级减速 2 stage reduction					
	1/3	1/5	1/9	1/15	1/20	1/25	1/35	1/45	1/81
50W	52			52					98
100W								98	125
200W		78		78			98		
400W			98	98				125	
750W	98								
1000W				125					
1500W									
2000W		125			—			—	
2500W									
3000W									
3500W		—							
4000W									
4500W									
5000W									

注1）全部为斜齿轮适用范围 Note 1) All corresponding to helical gear

■输入转速为2000rpm时When input speed is 2000rpm

减速比Reduction ratio / 马达功率Motor power(W)	单级减速 1 stage reduction			两级减速 2 stage reduction					
	1/3	1/5	1/9	1/15	1/20	1/25	1/35	1/45	1/81
50W	52			52					
100W									
200W		78		78				98	
400W			98	98					
750W	98								
1000W				125					
1500W									
2000W		125			—			—	
2500W									
3000W									
3500W		—							

注1）全部为斜齿轮适用范围
Note 1) All corresponding to helical gear

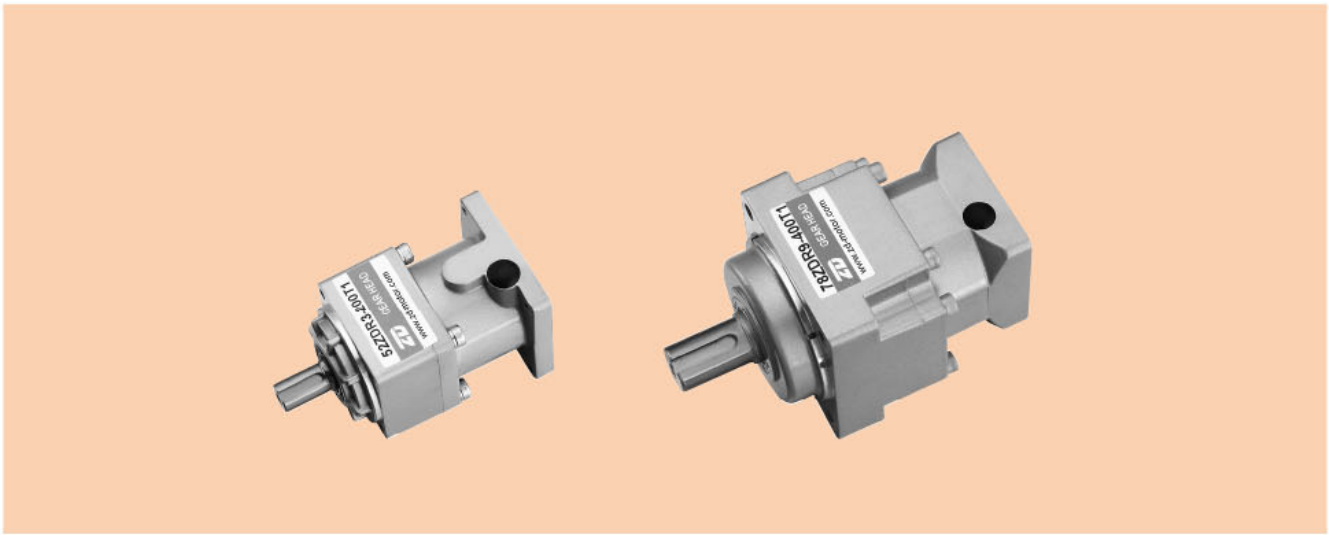
※以下为限扭矩机种
52：1/5减速(100W)
78：1/81减速(50W)
98：1/3减速(1500W)、1/45减速(200W)、1/81减速(100W)
125：1/3减速(3500W)、1/25减速(750W)

※Torque is limited to the following types:
52 : 1/5 reduction (100W)
78 : 1/81 reduction (50W)
98 : 1/3 reduction (1500W), 1/45 reduction (200W), 1/81 reduction (100W)
125 : 1/3 reduction (3500W), 1/25 reduction (250W)

■ 关于润滑油About lubricant

●润滑：润滑脂 ●更换：不可	● Lubrication: grease ● Replacement: Not available

ZDR性能表（输入转速为3,000rpm时）
ZDR PERFORMANCE TABLE (WHEN INPUT SPEED IS 3000RPM)



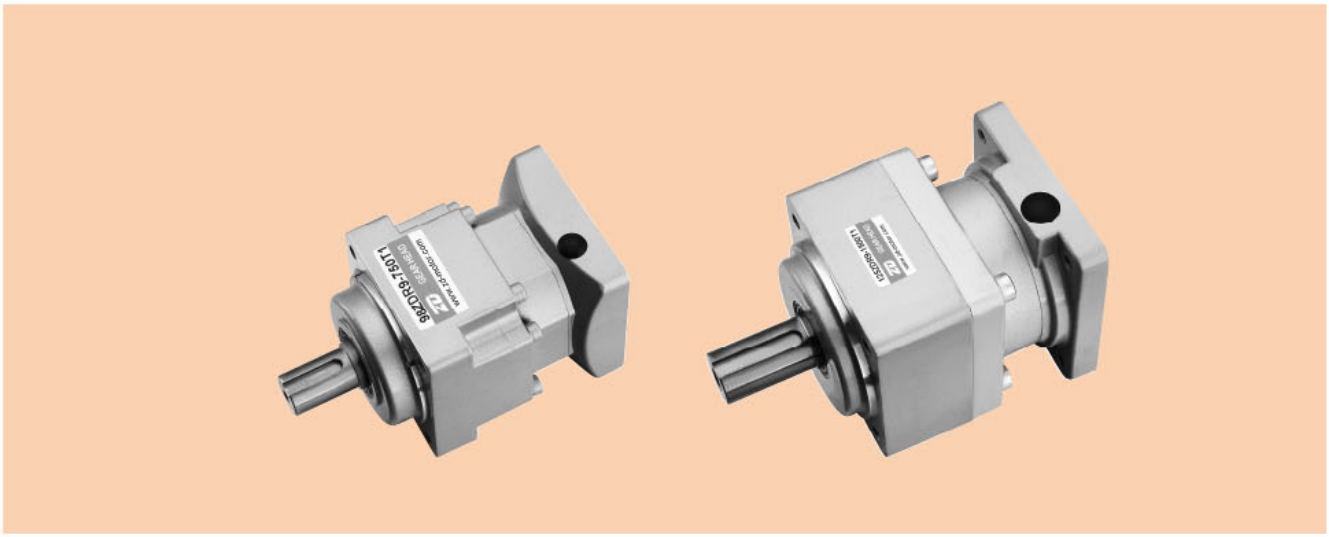
■性能表 Performance Table

减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment ofinertia of input shaftconversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
	机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor	(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
1/3	52	ZDR	3	-50	1000	0.255	0.784	392	196	0.0575	3.43	10.3
	52	ZDR	3	-100	1000	0.715	2.06	392	196	0.0575	3.43	10.3
	52	ZDR	3	-200	1000	1.47	4.51	392	196	0.135	3.43	10.3
	52	ZDR	3	-400	1000	3.43	10.3	392	196	0.145	3.43	10.3
	78	ZDR	3	-750	1000	6.37	19.3	784	392	0.913	6.86	20.6
	98	ZDR	3	-1000	1000	7.55	22.8	882	441	2.43	18.3	54.9
	98	ZDR	3	-1500	1000	12.3	37.1	882	441	2.43	18.3	54.9
	98	ZDR	3	-2000	1000	17.2	51.5	882	441	2.43	18.3	54.9
	125	ZDR	3	-2500	1000	19.0	57.2	1370	686	5.55	44.1	132
	125	ZDR	3	-3000	1000	23.7	71.2	1370	686	5.50	44.1	132
	125	ZDR	3	-3500	1000	28.3	85.2	1370	686	5.50	44.1	132
	125	ZDR	3	-4000	1000	33.1	99.0	1370	686	5.78	44.1	132
	125	ZDR	3	-4500	1000	37.7	113	1370	686	5.78	44.1	132
	125	ZDR	3	-5000	1000	42.9	128	1370	686	5.78	44.1	132
1/5	52	ZDR	5	-50	600	0.510	1.47	490	245	0.0400	1.57	4.70
	52	ZDR	5	-100	600	1.18	3.72	490	245	0.0400	1.57	4.70
	52	ZDR	5	-200	600	2.65	8.04	490	245	0.118	2.84	8.53
	78	ZDR	5	-400	600	5.39	16.2	980	490	0.363	6.57	19.7
	78	ZDR	5	-750	600	10.7	32.1	980	490	0.713	11.5	34.3
	98	ZDR	5	-1000	600	13.4	40.5	1080	539	1.85	23.5	70.6
	98	ZDR	5	-1500	600	21.5	64.4	1080	539	1.85	23.5	70.6
	125	ZDR	5	-2000	600	23.8	71.5	1670	833	3.50	56.8	171
	125	ZDR	5	-2500	600	31.8	95.5	1670	833	3.50	56.8	171
	125	ZDR	5	-3000	600	39.6	119	1670	833	3.48	56.8	171
	125	ZDR	5	-3500	600	47.2	141	1670	833	3.48	56.8	171
	125	ZDR	5	-4000	600	55.3	166	1670	833	3.75	56.8	171
1/9	52	ZDR	9	-50	333	0.921	2.74	588	294	0.0350	2.35	7.25
	52	ZDR	9	-100	333	2.25	6.86	588	294	0.0350	2.35	7.25
	78	ZDR	9	-200	333	3.72	11.3	1180	588	0.275	9.70	29.2
	78	ZDR	9	-400	333	9.51	28.5	1180	588	0.275	9.70	29.2
	98	ZDR	9	-750	333	18.2	54.7	1470	735	0.650	18.2	54.7
	125	ZDR	9	-1000	333	20.0	60.1	1960	980	2.81	73.5	221
	125	ZDR	9	-1500	333	34.3	103	1960	980	2.81	73.5	221
	125	ZDR	9	-2000	333	48.6	146	1960	980	2.81	73.5	221
	125	ZDR	9	-2500	333	60.8	182	1960	980	2.81	73.5	221
	125	ZDR	9	-3000	333	73.0	219	1960	980	2.77	73.5	221

注1) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注2) 最高输入转速为5000rpm.正常情况下请将转速控制在3000rpm以下。
注3) 容许径向负荷为输出轴中央部的数值。
注4) 全部为斜齿轮适用范围。

Note 1) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 2) The max. input speed is 5000rpm. Usually set to 3000rpm or less.
Note 3) The permissible radial load is indicated on the center of the output shaft.
Note 4) All values are within the range corresponding to helical gear.

ZDR性能表（输入转速为3,000rpm时）
ZDRPERFORMANCE TABLE (WHEN INPUT SPEED IS 3000RPM)



■性能表 Performance Table

减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment ofinertia of input shaftconversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
	机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor	(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
1/15	52	ZDR	15	-50	200	1.67	5.00	784	392	0.0350	4.02	12.2
	52	ZDR	15	-100	200	3.72	11.4	784	392	0.0350	4.02	12.2
	78	ZDR	15	-200	200	6.27	18.8	1470	735	0.300	16.2	48.6
	78	ZDR	15	-400	200	15.8	47.5	1470	735	0.300	16.2	48.6
	98	ZDR	15	-750	200	30.4	91.2	1760	882	0.700	30.4	91.2
	125	ZDR	15	-1000	200	33.3	100	2350	1180	1.95	91.4	274
	125	ZDR	15	-1500	200	57.2	172	2350	1180	2.80	91.4	274
	125	ZDR	15	-2000	200	81.0	243	2350	1180	2.80	91.4	274
1/20	52	ZDR	20	-50	150	2.21	6.63	804	402	0.0340	5.00	15.0
	52	ZDR	20	-100	150	5.00	15.0	804	402	0.0340	5.00	15.0
	78	ZDR	20	-200	150	8.69	26.1	1570	785	0.294	21.1	63.3
	78	ZDR	20	-400	150	21.1	63.3	1570	785	0.294	21.1	63.3
	98	ZDR	20	-750	150	40.6	122	1910	955	0.690	40.6	122
1/25	52	ZDR	25	-50	120	2.74	8.33	882	441	0.0325	4.02	12.2
	52	ZDR	25	-100	120	6.27	19.0	882	441	0.0325	6.27	19.0
	78	ZDR	25	-200	120	11.1	33.3	1670	833	0.288	21.7	64.9
	78	ZDR	25	-400	120	26.4	79.2	1670	833	0.288	26.4	79.2
	98	ZDR	25	-750	120	50.7	152	2060	1030	0.680	50.7	152
	125	ZDR	25	-1000	120	55.7	167	2650	1320	1.88	65.4	196
1/35	52	ZDR	35	-50	85	3.84	11.5	882	441	0.0300	3.84	11.5
	78	ZDR	35	-100	85	7.24	21.7	1670	833	0.0650	13.9	41.7
	78	ZDR	35	-200	85	15.5	46.6	1670	833	0.262	15.5	46.6
	98	ZDR	35	-400	85	37.0	111	2060	1030	0.269	37.0	111
	125	ZDR	35	-750	85	71.0	213	3430	1715	0.473	71.0	213
1/45	78	ZDR	45	-50	66	3.86	11.6	1670	833	0.0285	9.50	28.6
	78	ZDR	45	-100	66	9.31	28.0	1670	833	0.0285	9.50	28.6
	98	ZDR	45	-200	66	21.1	63.5	2060	1030	0.0256	28.3	85.2
	125	ZDR	45	-400	66	47.5	142.5	3520	1760	0.245	57.0	171
	125	ZDR	45	-750	66	91.3	274	3520	1760	1.77	91.3	274
1/81	78	ZDR	81	-50	37	7.02	20.8	1670	833	0.0270	9.70	29.2
	98	ZDR	81	-100	37	14.0	42.0	2060	1030	0.0300	17.8	53.5
	125	ZDR	81	-200	37	36.1	108.3	3530	1765	0.240	43.3	129.9

注1) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注2) 最高输入转速为5000rpm.正常情况下请将转速控制在3000rpm以下。
注3) 容许径向负荷为输出轴中央部的数值。
注4) 全部为斜齿轮适用范围。

Note 1) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 2) The max. input speed is 5000rpm. Usually set to 3000rpm or less.
Note 3) The permissible radial load is indicated on the center of the output shaft.
Note 4) All values are within the range corresponding to helical gear.

ZDR性能表（输入转速为2,000rpm时）
ZDRPERFORMANCE TABLE(WHEN INPUT SPEED IS 2000RPM)

标准型、P1(精密型)、P2(高精密型)均为相同的规格The same specification applies to all of standard type, P1(low backlash), and P2(high precision type).

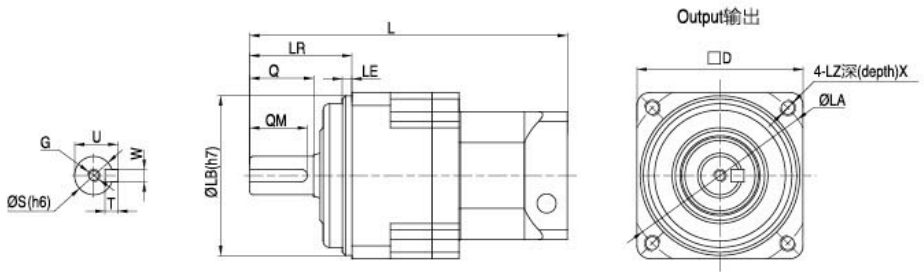
■性能表 Performance Table

减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
	机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor	(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
1/3	52	ZDR	3	-50	666	0.477	1.43	450	225	0.0575	3.43	10.3
	52	ZDR	3	-100	666	1.05	3.15	450	225	0.135	3.43	10.3
	52	ZDR	3	-200	666	2.48	7.45	450	225	0.145	3.43	10.3
	78	ZDR	3	-400	666	5.01	15.0	900	450	0.913	6.86	20.6
	98	ZDR	3	-750	666	8.73	26.2	1010	505	2.43	18.3	54.9
	98	ZDR	3	-1000	666	12.3	37.1	1010	505	2.43	18.3	54.9
	98	ZDR	3	-1500	666	18.3	54.9	1010	505	2.43	18.3	54.9
	125	ZDR	3	-2000	666	23.7	71.2	1570	785	5.50	44.1	132
	125	ZDR	3	-2500	666	30.8	92.5	1570	785	5.50	44.1	132
	125	ZDR	3	-3000	666	37.7	113	1570	785	5.50	44.1	132
	125	ZDR	3	-3500	666	44.1	132	1570	785	5.78	44.1	132
1/5	52	ZDR	5	-50	400	0.795	2.39	560	280	0.0400	1.57	4.70
	52	ZDR	5	-100	400	1.57	4.70	560	280	0.118	1.57	4.70
	78	ZDR	5	-200	400	3.82	11.5	1120	560	0.363	6.57	19.7
	78	ZDR	5	-400	400	8.35	25.1	1120	560	0.713	11.5	34.3
	98	ZDR	5	-750	400	15.5	46.5	1230	615	1.85	23.5	70.6
	98	ZDR	5	-1000	400	21.5	64.4	1230	615	1.85	23.5	70.6
	125	ZDR	5	-1500	400	27.8	83.5	1900	950	3.50	56.8	171
	125	ZDR	5	-2000	400	39.6	119	1900	950	3.48	56.8	171
	125	ZDR	5	-2500	400	51.4	154	1900	950	3.75	56.8	171
1/9	52	ZDR	9	-50	222	1.57	4.72	670	335	0.0350	2.35	7.25
	78	ZDR	9	-100	222	2.35	7.04	1340	670	0.275	9.70	29.2
	78	ZDR	9	-200	222	6.64	19.9	1340	670	0.275	9.70	29.2
	98	ZDR	9	-400	222	14.0	41.9	1680	840	0.650	18.2	54.7
	125	ZDR	9	-750	222	23.6	70.9	2240	1120	2.81	73.5	221
	125	ZDR	9	-1000	222	34.3	103	2240	1120	2.81	73.5	221
	125	ZDR	9	-1500	222	53.7	161	2240	1120	2.81	73.5	221
	125	ZDR	9	-2000	222	73.0	219	2240	1120	2.77	73.5	221
1/15	52	ZDR	15	-50	133	2.62	7.87	882	441	0.0350	4.02	12.2
	78	ZDR	15	-100	133	3.91	11.7	1670	833	0.300	16.2	48.6
	78	ZDR	15	-200	133	11.1	33.2	1670	833	0.300	16.2	48.6
	98	ZDR	15	-400	133	23.3	69.8	2020	1010	0.700	30.4	91.2
	125	ZDR	15	-750	133	39.4	118	2650	1320	2.80	91.4	274
	125	ZDR	15	-1000	133	57.2	172	2650	1320	2.80	91.4	274
	125	ZDR	15	-1500	133	91.3	274	2650	1320	2.80	91.4	274
1/20	52	ZDR	20	-50	100	3.50	10.5	910	455	0.0340	5.00	15.0
	78	ZDR	20	-100	100	5.73	17.2	1790	895	0.294	21.1	63.3
	78	ZDR	20	-200	100	14.8	44.4	1790	895	0.294	21.1	63.3
	98	ZDR	20	-400	100	31.0	93.1	2180	1090	0.690	40.6	122
1/25	52	ZDR	25	-50	80.0	4.37	13.1	882	441	0.0325	6.27	19.0
	78	ZDR	25	-100	80.0	7.16	21.5	1670	833	0.288	21.7	64.9
	78	ZDR	25	-200	80.0	18.5	55.4	1670	833	0.288	21.7	64.9
	98	ZDR	25	-400	80.0	38.8	116	2060	1030	0.680	50.7	152
	125	ZDR	25	-750	80.0	65.4	196	2650	1320	1.88	65.4	196
1/35	78	ZDR	35	-50	57	4.43	13.3	1900	950	0.262	15.5	46.6
	78	ZDR	35	-100	57	12.7	38.1	1900	950	0.262	15.5	46.6
	98	ZDR	35	-200	57	22.0	66.0	2340	1170	0.269	37.0	111
1/45	78	ZDR	45	-50	44.4	5.80	17.4	1670	833	0.0285	9.50	28.6
	98	ZDR	45	-100	44.4	14.0	42.1	2060	1030	0.0285	28.3	85.2
	98	ZDR	45	-200	44.4	28.3	85.2	2060	1030	0.0285	28.3	85.2
1/81	78	ZDR	81	-50	24.6	9.70	29.2	1670	833	0.0270	9.70	29.2
	98	ZDR	81	-100	24.6	17.8	53.5	2060	1030	0.0300	17.8	53.5

注1) 输入轴换算内部惯性力矩仅为减速机的数值，不包括马达的惯性力矩。请将其作为参考值。
注2) 容许径向负荷为输出轴中央部的数值。
注3) 全部为斜齿轮适用范围。
Note 1) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 2) The permissible radial load is indicated on the center of the output shaft.
Note 3) All values are within the range corresponding to helical gear.

ZDR同芯轴型减速机尺寸表
DIMENSIONAL TABLE FOR ZDR CONCENTRIC SHAFT REDUCER

机械参数 DIMENSIONS



■ 尺寸表 Dimensional Table

单位Unit: mm

型号 Type				全长 Total length L			输出轴 Output shaft							法兰 Flange					
机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor	松下电器生产 Panasonic-made MSMA	安川电机生产 Yaskawa-made SGMASH SGMSH	三菱电机生产 Mitsubishi-made HC-KFS HC-RFS	LR	S	Q	QM	G	W x U	T	D	LB	LE	LA	LZ	X
52	ZDR	3·5·9	50		99.5														
52	ZDR	15·20·25·35	50		110														
52	ZDR	3·5·9	100		99.5		32	12	20	18	M4(depth)12	4x13.5	4	52	50	3	60	M5	12
52	ZDR	15·20·25	100		110														
52	ZDR	3·5	200		104.5														
52	ZDR	3	400																
78	ZDR	45·81	50		142														
78	ZDR	35	100		150														
78	ZDR	45	100		142														
78	ZDR	9	200		139.5		50	19	30	26	M5(depth)15	6x21.5	6	80	70	3	90	M6	20
78	ZDR	15·20·25·35	200		150														
78	ZDR	5·9	400		139.5														
78	ZDR	15·20·25	400		150														
78	ZDR	3·5	750		143.5														
98	ZDR	81	100		158														
98	ZDR	45	200		165														
98	ZDR	35	400																
98	ZDR	9	750		158.5		61	24	40	35	M6(depth)20	8x27	7	100	90	5	115	M8	20
98	ZDR	15·20·25	750		171														
98	ZDR	3·5	1000		177														
98	ZDR	3·5	1500																
98	ZDR	3	2000																
125	ZDR	81	200		210														
125	ZDR	45	400																
125	ZDR	35	750																
125	ZDR	45	750		235														
125	ZDR	9	1000		215														
125	ZDR	15·25	1000		235														
125	ZDR	9	1500		215														
125	ZDR	15	1500		235														
125	ZDR	5·9	2000		215		75	32	55	52	M10(depth)20	10x35	8	125	110	5	135	M10	20
125	ZDR	15	2000		235														
125	ZDR	3·5·9	2500	215	-	-													
125	ZDR	3·5·9	3000	215	225	-													
125	ZDR	3·5	3500	215	-	225													
125	ZDR	3·5	4000	225	225	-													
125	ZDR	3	4500	225	-	-													
125	ZDR	3	5000		225														

注1) 基准系列(马达对应表记载系列)以外的马达，请咨询。（因为根据马达安装的不同法兰尺寸可能不同）
注2) 输出轴旋转方向与马达输入旋转方向相同。
注3) 全部为斜齿轮适用范围。

Note 1) Please inquire to us if motor model isn't standard (Matching motor list).(The flange dimension may be different if motor assembly dimension is different.)
Note 2) Rotation of the output shaft is in the same direction as that of motor input.
Note 3) All values are within the range corresponding to helical gear.

50W 尺寸图与性能表
50W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

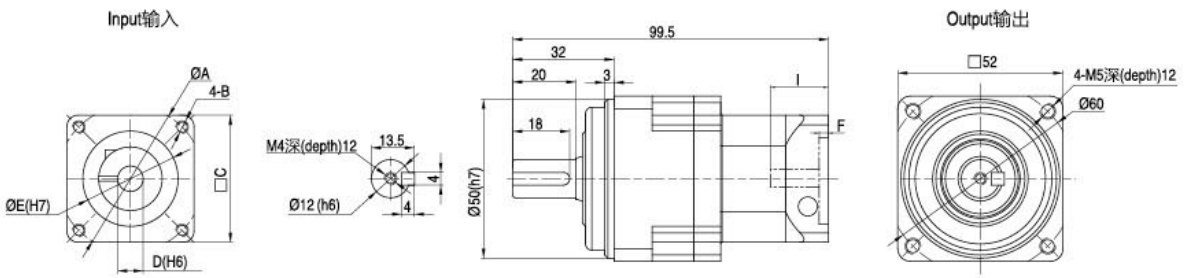
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}$kg.m^2)	(N·m)	(N·m)
50W	1/3	52	ZDR	3	50	1000	0.255	0.784	392	196	0.0575	3.43	10.3
	1/5	52	ZDR	5	50	600	0.510	1.47	490	245	0.0400	1.57	4.70
	1/9	52	ZDR	9	50	333	0.921	2.74	588	294	0.0350	2.35	7.25
	1/15	52	ZDR	15	50	200	1.67	5.00	784	392	0.0350	4.02	12.2
	1/20	52	ZDR	20	50	150	2.21	6.63	804	402	0.0340	5.00	15.0
	1/25	52	ZDR	25	50	120	2.74	8.33	882	441	0.0325	4.02	12.2
	1/35	52	ZDR	35	50	85	3.84	11.5	882	441	0.0300	3.84	11.5
	1/45	78	ZDR	45	50	66	3.86	11.6	1670	833	0.0285	9.50	28.6
	1/81	78	ZDR	81	50	37	7.02	20.8	1670	833	0.0270	9.70	29.2

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●52ZDR3·5·9-50



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

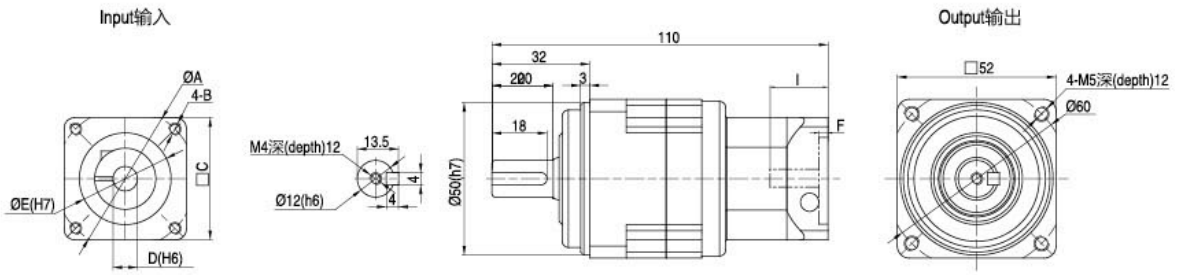
马达种类Motor type	A	B	C	D	E	F	I
T1	45	M3深(depth)6.5	38	8	30	4	26
T2	46	M4深(depth)6.5	40	6	30	4	26
T3	46	M4深(depth)6.5	40	8	30	4	26

●概略重量0.55kg
●Rough weight 0.55kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

50W 尺寸图与性能表
50W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 尺寸图 Dimensional Drawing

●52ZDR15•20•25•35-50

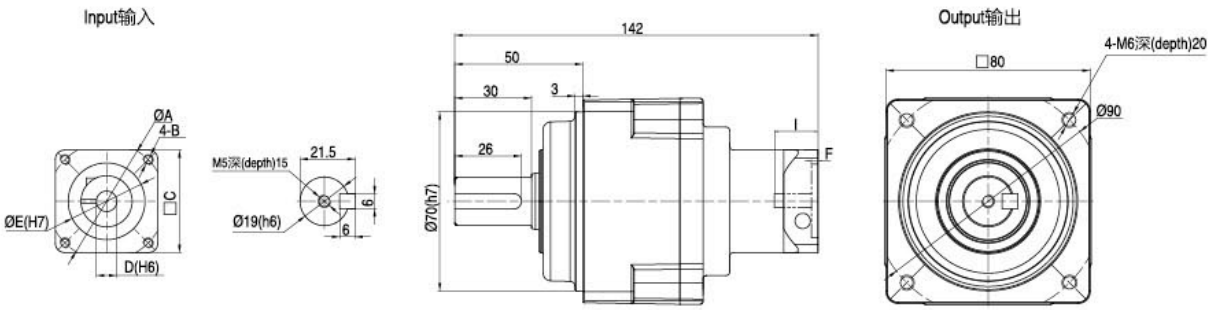


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	45	M3深(depth)6.5	38	8	30	4	26
T2	46	M4深(depth)6.5	40	6	30	4	26
T3	46	M4深(depth)6.5	40	8	30	4	26

●概略重量0.7kg
●Rough weight 0.7kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●78ZDR45•81-50



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	45	M3深(depth)6.5	38	8	30	4	26
T2	46	M4深(depth)6.5	40	6	30	4	26
T3	46	M4深(depth)6.5	40	8	30	4	26

●概略重量1.7kg
●Rough weight 1.7kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

100W 尺寸图与性能表
100W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

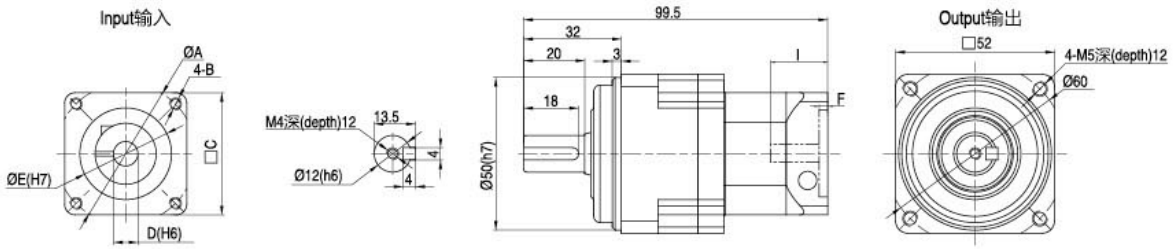
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
100W	1/3	52	ZDR	3	100	1000	0.715	2.06	392	196	0.0575	3.43	10.3
	1/5	52	ZDR	5	100	600	1.18	3.72	490	245	0.0400	1.57	4.70
	1/9	52	ZDR	9	100	333	2.25	6.86	588	294	0.0350	2.35	7.25
	1/15	52	ZDR	15	100	200	3.72	11.4	784	392	0.0350	4.02	12.2
	1/20	52	ZDR	20	100	150	5.00	15.0	804	402	0.0340	5.00	15.0
	1/25	52	ZDR	25	100	120	6.27	19.0	882	441	0.0325	6.27	19.0
	1/35	78	ZDR	35	100	85	7.24	21.7	1670	833	0.0650	13.9	41.7
	1/45	78	ZDR	45	100	66	9.31	28.0	1670	833	0.0285	9.50	28.6
	1/81	98	ZDR	81	100	37	14.0	42.0	2060	1030	0.0300	17.8	53.5

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●52ZDR3•5•9-100

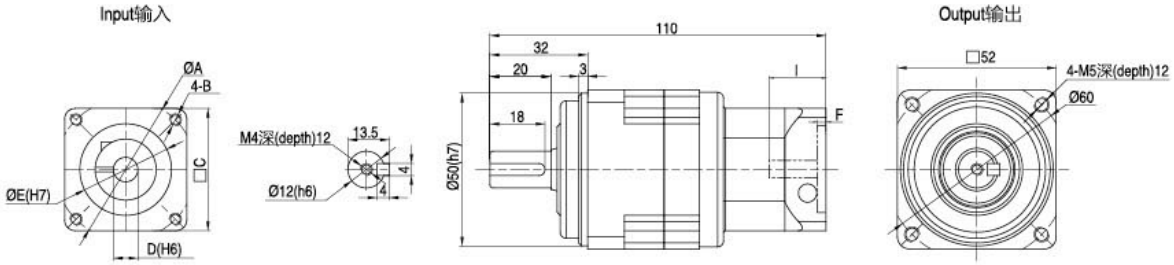


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	45	M3深(depth)6.5	38	8	30	4	26
T2	46	M4深(depth)6.5	40	8	30	4	26
T3	46	M4深(depth)6.5	40	8	30	4	26

●概略重量0.55kg
●Rough weight 0.55kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●52ZDR15•20•25-100



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

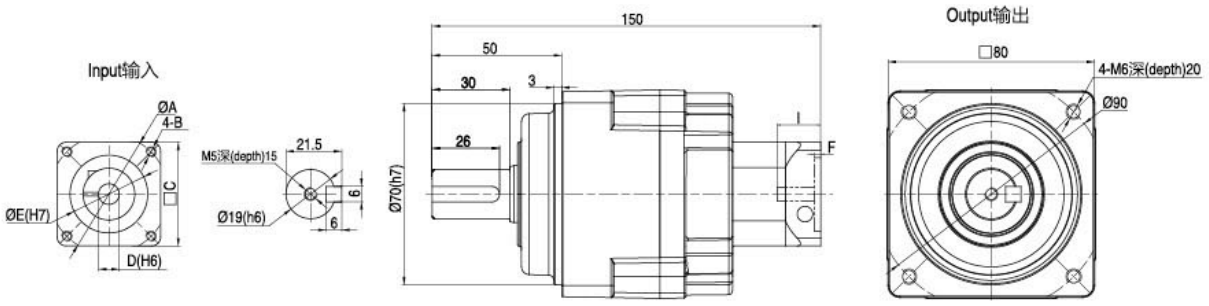
马达种类Motor type	A	B	C	D	E	F	I
T1	45	M3深(depth)6.5	38	8	30	4	26
T2	46	M4深(depth)6.5	40	8	30	4	26
T3	46	M4深(depth)6.5	40	8	30	4	26

●概略重量0.7kg
●Rough weight 0.7kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

100W 尺寸图与性能表
100W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 尺寸图 Dimensional Drawing

●78ZDR35-100

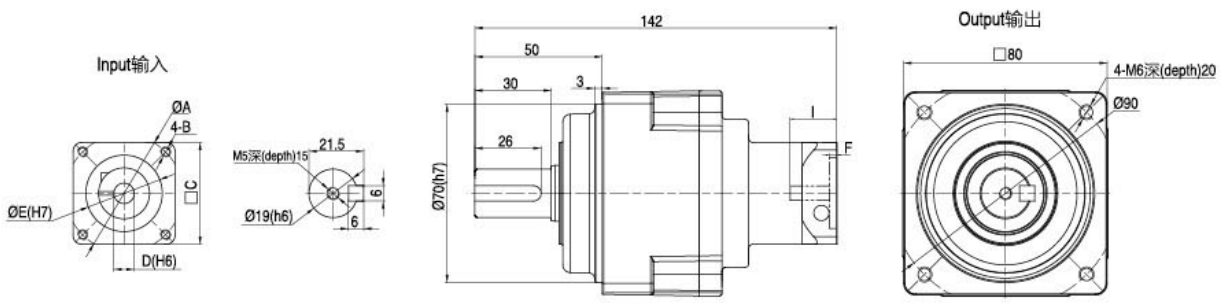


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	45	M3深(depth)6.5	38	8	30	4	26
T2	46	M4深(depth)6.5	40	8	30	4	26
T3	46	M4深(depth)6.5	40	8	30	4	26

●概略重量2.0kg
●Rough weight 2.0kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●78ZDR45-100

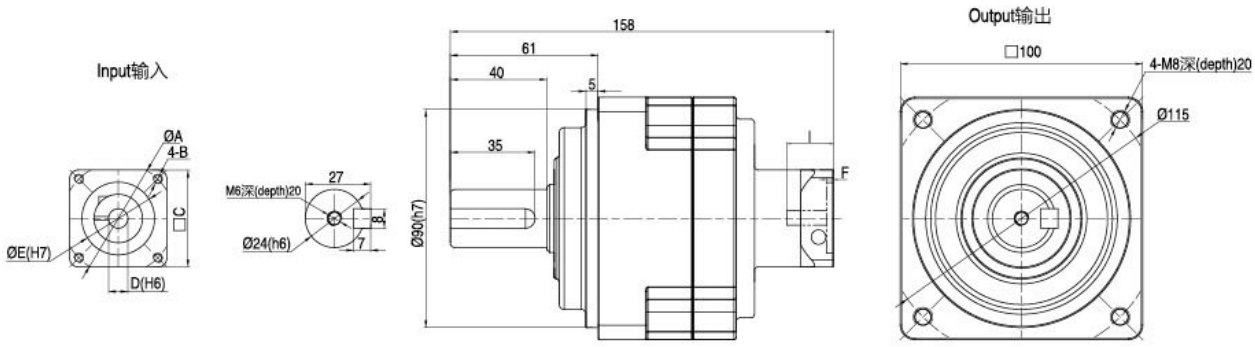


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	45	M3深(depth)6.5	38	8	30	4	26
T2	46	M4深(depth)6.5	40	8	30	4	26
T3	46	M4深(depth)6.5	40	8	30	4	26

●概略重量1.7kg
●Rough weight 1.7kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●98ZDR81-100



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	45	M3深(depth)6.5	38	8	30	4	26
T2	46	M4深(depth)6.5	40	8	30	4	26
T3	46	M4深(depth)6.5	40	8	30	4	26

●概略重量3.0kg
●Rough weight 3.0kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

200W 尺寸图与性能表
200W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

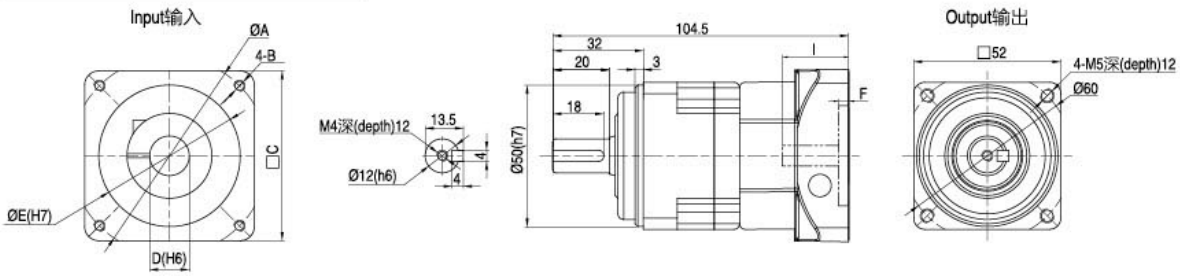
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
200W	1/3	52	ZDR	3	200	1000	1.47	4.51	392	196	0.135	3.43	10.3
	1/5	52	ZDR	5	200	600	2.65	8.04	490	245	0.118	2.84	8.53
	1/9	78	ZDR	9	200	333	3.72	11.3	1180	588	0.275	9.70	29.2
	1/15	78	ZDR	15	200	200	6.27	18.8	1470	735	0.300	16.2	48.6
	1/20	78	ZDR	20	200	150	8.69	26.1	1570	785	0.294	21.1	63.3
	1/25	78	ZDR	25	200	120	11.1	33.3	1670	833	0.288	21.7	64.9
	1/35	78	ZDR	35	200	85	15.5	46.6	1670	833	0.262	15.5	46.6
	1/45	98	ZDR	45	200	66	21.1	63.5	2060	1030	0.0256	28.3	85.2
	1/81	125	ZDR	81	200	37	36.1	108.3	3530	1765	0.240	43.3	129.9

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●52ZDR3•5-200

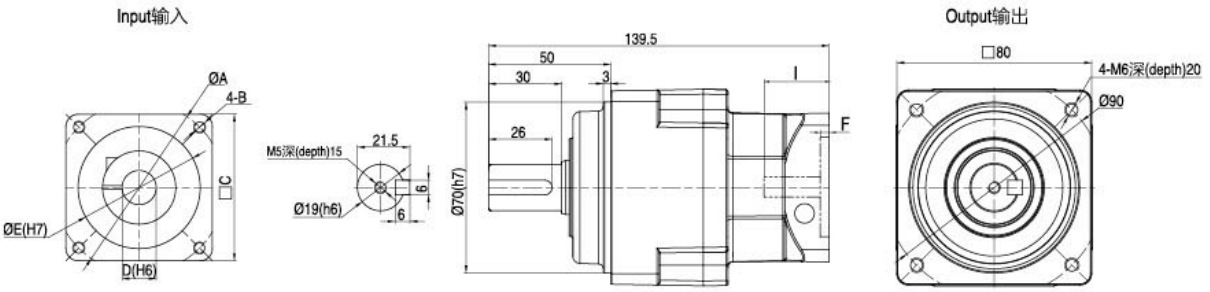


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	70	M4深(depth)10	60	11	50	4	30
T2	70	M5深(depth)10	60	14	50	4	30
T3	70	M5深(depth)10	60	14	50	4	30

●概略重量0.72kg
●Rough weight 0.72kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●78ZDR9-200



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

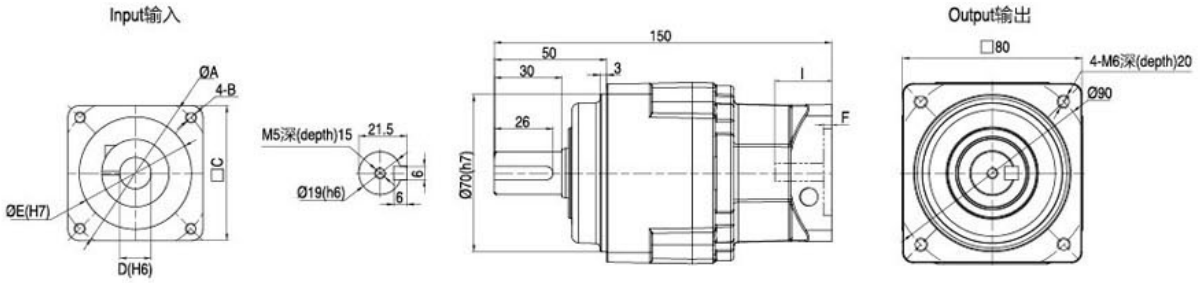
马达种类Motor type	A	B	C	D	E	F	I
T1	70	M4深(depth)10	60	11	50	4	30
T2	70	M5深(depth)10	60	14	50	4	30
T3	70	M5深(depth)10	60	14	50	4	30

●概略重量1.7kg
●Rough weight 1.7kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

200W 尺寸图与性能表
200W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 尺寸图 Dimensional Drawing

●78ZDR15•20•25•35-200

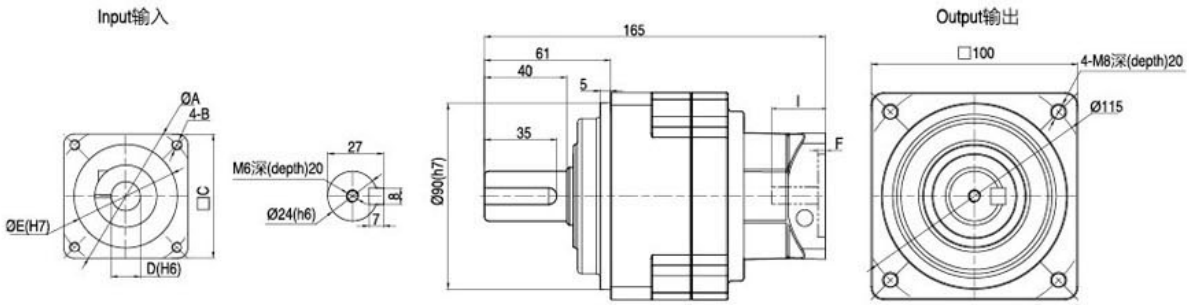


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	70	M4深(depth)10	60	11	50	4	30
T2	70	M5深(depth)10	60	14	50	4	30
T3	70	M5深(depth)10	60	14	50	4	30

●概略重量2.1kg
●Rough weight 2.1kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●98ZDR45-200

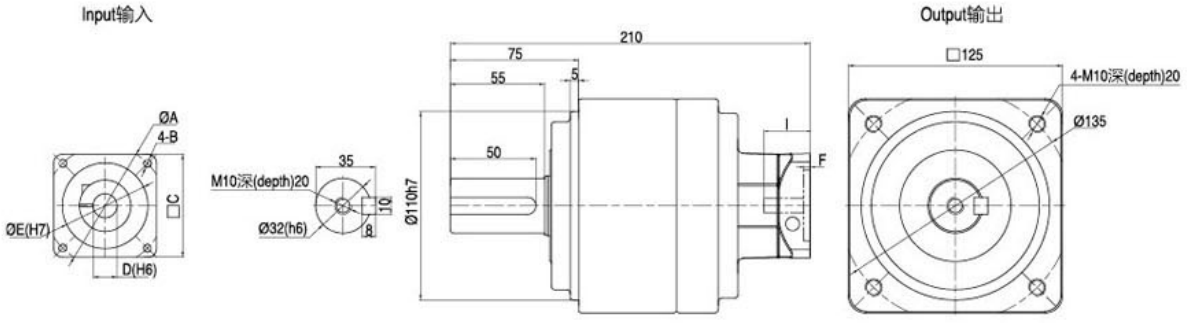


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	70	M4深(depth)10	60	11	50	4	30
T2	70	M5深(depth)10	60	14	50	4	30
T3	70	M5深(depth)10	60	14	50	4	30

●概略重量3.2kg
●Rough weight 3.2kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●125ZDR81-200



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	70	M4深(depth)10	60	11	50	4	30
T2	70	M5深(depth)10	60	14	50	4	30
T3	70	M5深(depth)10	60	14	50	4	30

●概略重量3.0kg
●Rough weight 3.0kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

400W 尺寸图与性能表
400W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

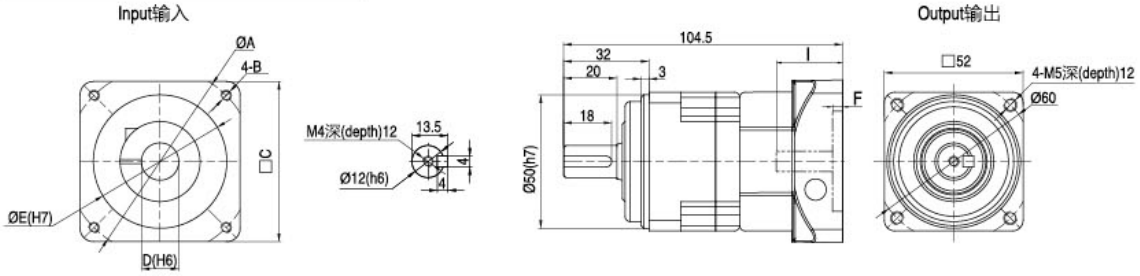
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
400W	1/3	52	ZDR	3	400	1000	3.43	10.3	392	196	0.145	3.43	10.3
	1/5	78	ZDR	5	400	600	5.39	16.2	980	490	0.363	6.57	19.7
	1/9	78	ZDR	9	400	333	9.51	28.5	1180	588	0.275	9.70	29.2
	1/15	78	ZDR	15	400	200	15.8	47.5	1470	735	0.300	16.2	48.6
	1/20	78	ZDR	20	400	150	21.1	63.3	1570	785	0.294	21.1	63.3
	1/25	78	ZDR	25	400	120	26.4	79.2	1670	833	0.288	26.4	79.2
	1/35	98	ZDR	35	400	85	37.0	111	2060	1030	0.269	37.0	111
	1/45	125	ZDR	45	400	66	47.5	142.5	3520	1760	0.245	57	171

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●52ZDR3-400

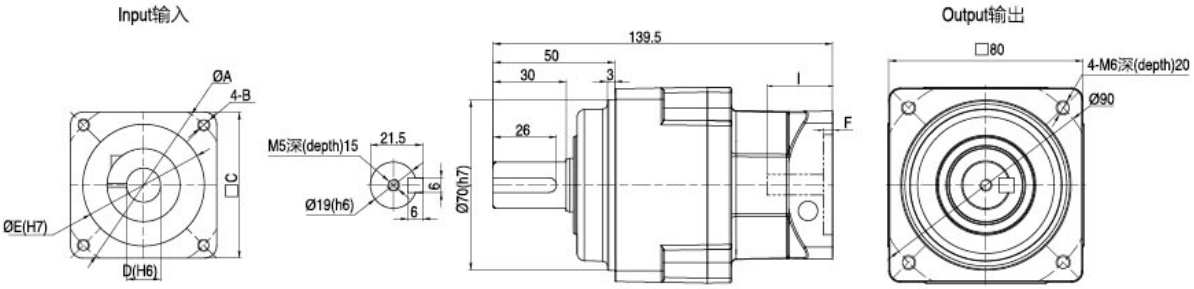


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	70	M4深(depth)10	60	14	50	4	30
T2	70	M5深(depth)10	60	14	50	4	30
T3	70	M5深(depth)10	60	14	50	4	30

●概略重量0.71kg
●Rough weight 0.71kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●78ZDR5•9-400



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

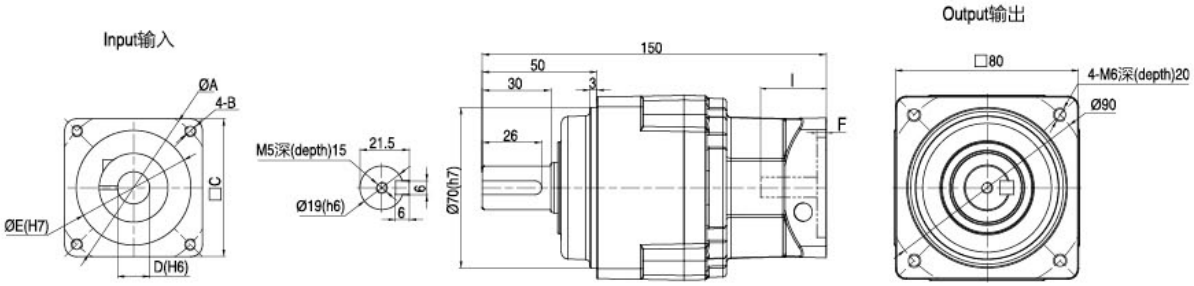
马达种类Motor type	A	B	C	D	E	F	I
T1	70	M4深(depth)10	60	14	50	4	30
T2	70	M5深(depth)10	60	14	50	4	30
T3	70	M5深(depth)10	60	14	50	4	30

●概略重量1.7kg
●Rough weight 1.7kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

400W 尺寸图与性能表
400W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 尺寸图 Dimensional Drawing

●78ZDR15•20•25-400

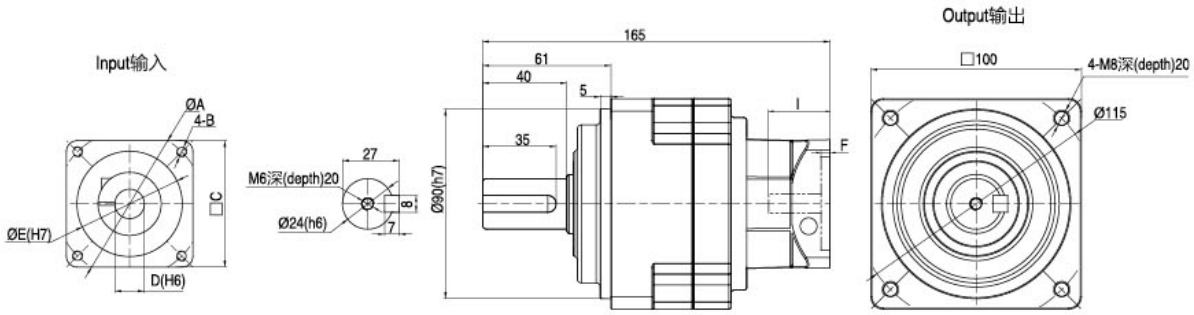


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	70	M4深(depth)10	60	14	50	4	30
T2	70	M5深(depth)10	60	14	50	4	30
T3	70	M5深(depth)10	60	14	50	4	30

●概略重量2.1kg
●Rough weight 2.1kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●98ZDR35-400

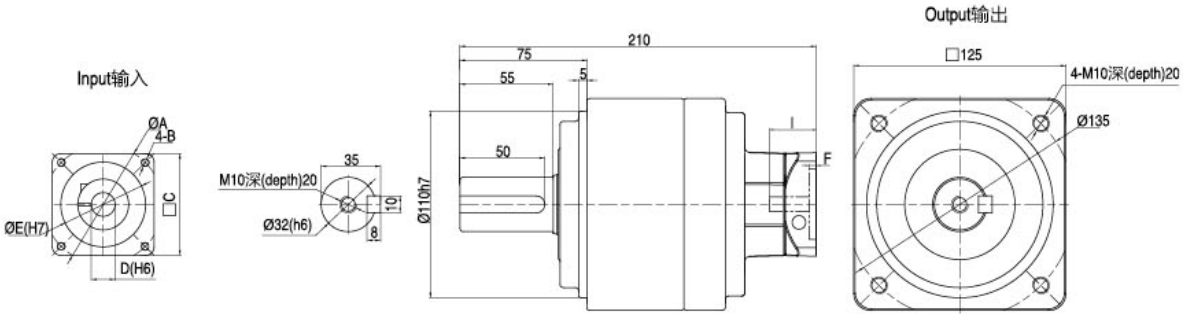


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	70	M4深(depth)10	60	14	50	4	30
T2	70	M5深(depth)10	60	14	50	4	30
T3	70	M5深(depth)10	60	14	50	4	30

●概略重量3.2kg
●Rough weight 3.2kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●125ZDR45-400



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	70	M4深(depth)10	60	14	50	4	30
T2	70	M5深(depth)10	60	14	50	4	30
T3	70	M5深(depth)10	60	14	50	4	30

●概略重量7.2kg
●Rough weight 7.2kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

750W 尺寸图与性能表
750W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

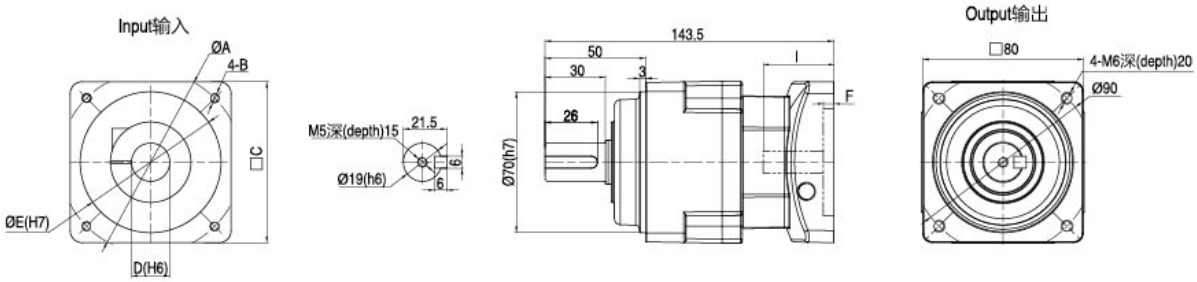
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
750W	1/3	78	ZDR	3	750	1000	6.37	19.3	784	392	0.913	6.86	20.6
	1/5	78	ZDR	5	750	600	10.7	32.1	980	490	0.713	11.5	34.3
	1/9	98	ZDR	9	750	333	18.2	54.7	1470	735	0.650	18.2	54.7
	1/15	98	ZDR	15	750	200	30.4	91.2	1760	882	0.700	30.4	91.2
	1/20	98	ZDR	20	750	150	40.6	122	1910	955	0.690	40.6	122
	1/25	98	ZDR	25	750	120	50.7	152	2060	1030	0.680	50.7	152
	1/35	125	ZDR	35	750	85	71.0	213	3430	1715	0.473	71.0	213
	1/45	125	ZDR	45	750	66	91.3	274	3520	1760	1.77	91.3	274

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●78ZDR3•5-750

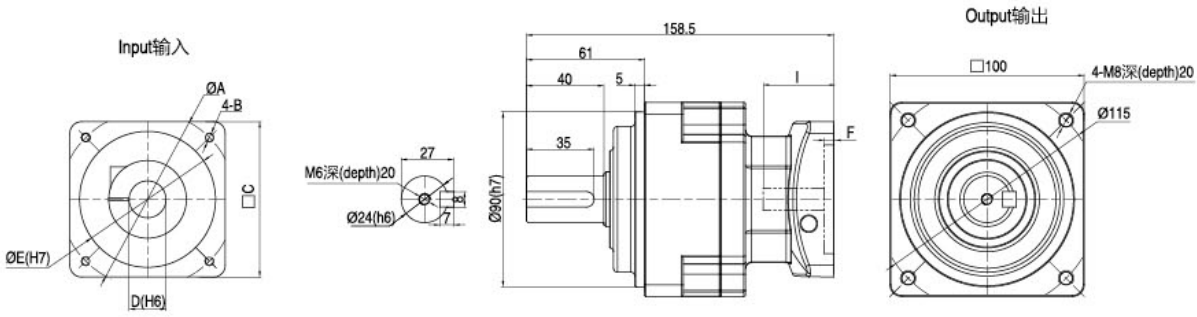


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	90	M5深(depth)10	80	19	70	4	40
T2	90	M6深(depth)10	80	16	70	4	40
T3	90	M6深(depth)10	80	19	70	4	40

●概略重量2.1kg
●Rough weight 2.1kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●98ZDR9-750



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

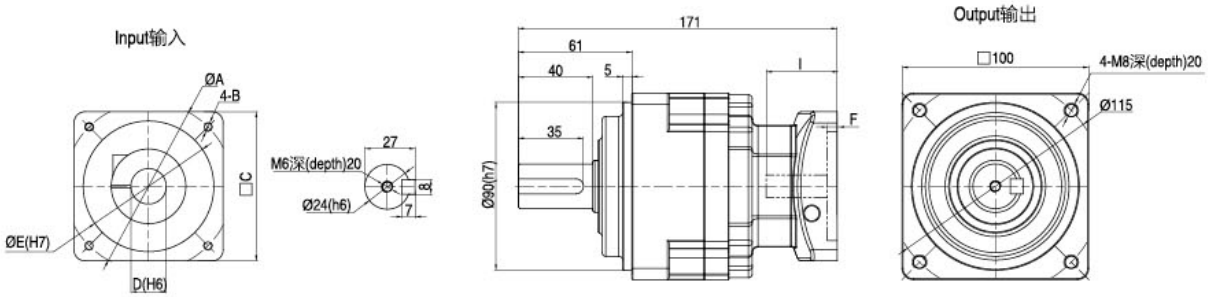
马达种类Motor type	A	B	C	D	E	F	I
T1	90	M5深(depth)10	80	19	70	4	40
T2	90	M6深(depth)10	80	16	70	4	40
T3	90	M6深(depth)10	80	19	70	4	40

●概略重量3.4kg
●Rough weight 3.4kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

750W 尺寸图与性能表
750W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 尺寸图 Dimensional Drawing

●98ZDR15•20•25-750

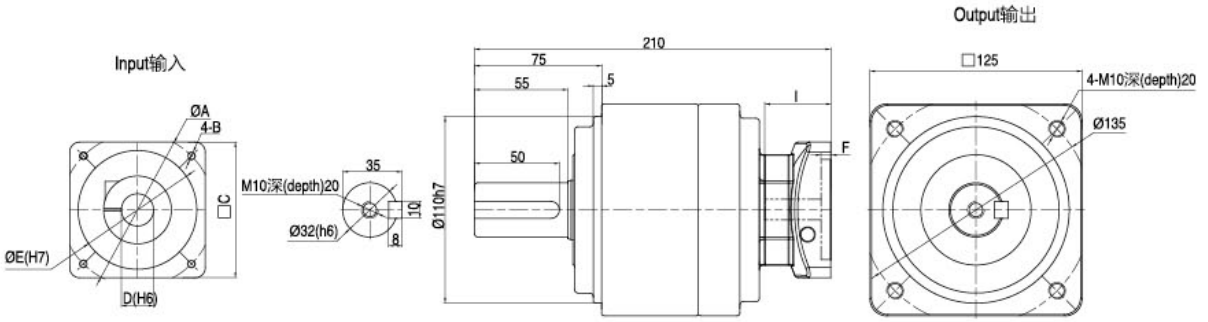


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	90	M5深(depth)10	80	19	70	4	40
T2	90	M6深(depth)10	80	16	70	4	40
T3	90	M6深(depth)10	80	19	70	4	40

●概略重量3.8kg
●Rough weight 3.8kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●125ZDR35-750

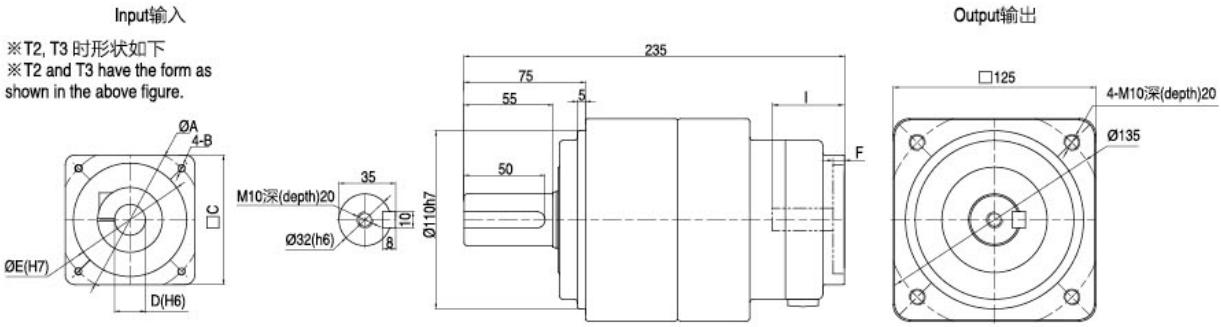


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	90	M5深(depth)10	80	19	70	4	40
T2	90	M6深(depth)10	80	16	70	4	40
T3	90	M6深(depth)10	80	19	70	4	40

●概略重量7.2kg
●Rough weight 7.2kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●125ZDR45-750



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	90	M5深(depth)10	80	19	70	4	40
T2	90	M6深(depth)10	80	16	70	4	40
T3	90	M6深(depth)10	80	19	70	4	40

●概略重量12.0kg
●Rough weight 12.0kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

1000W 尺寸图与性能表
1000W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}$kg.m^2)	(N·m)	(N·m)
1000W	1/3	98	ZDR	3	1000	1000	7.55	22.8	882	441	2.43	18.3	54.9
	1/5	98	ZDR	5	1000	600	13.4	40.5	1080	539	1.85	23.5	70.6
	1/9	125	ZDR	9	1000	333	20.2	60.1	1960	980	2.81	73.5	221
	1/15	125	ZDR	15	1000	200	33.3	100	2350	1180	1.95	91.4	274
	1/25	125	ZDR	25	1000	120	55.7	167	2650	1320	1.88	65.4	196

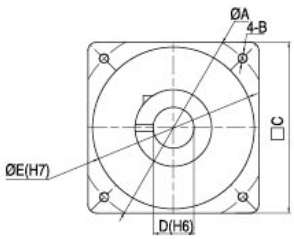
注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

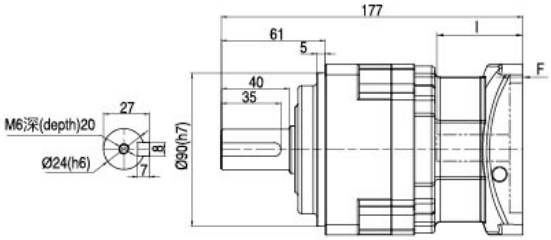
Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

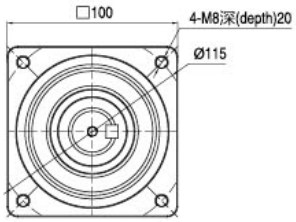
●98ZDR3•5-1000

Input输入





Output输出



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

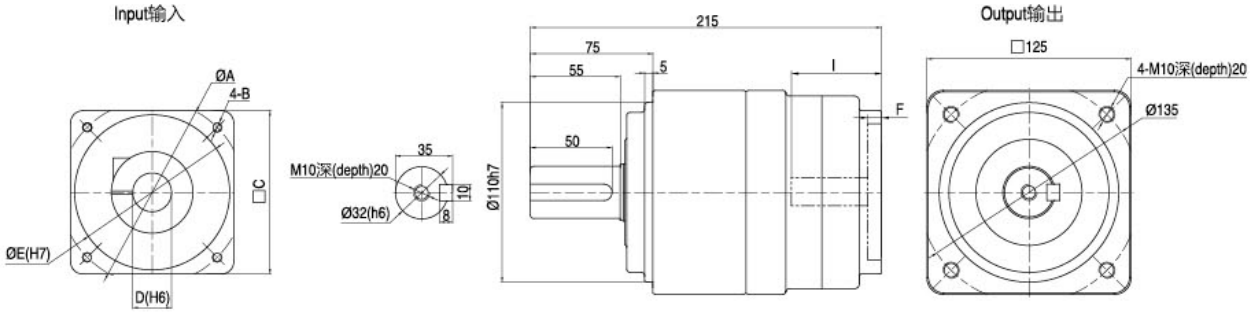
马达种类Motor type	A	B	C	D	E	F	I
T1	100	M6深(depth)15	90	19	80	4	55
T2	115	M6深(depth)15	100	24	95	4	55
T3	115	M8深(depth)15	100	24	95	4	55

●概略重量3.9kg
●Rough weight 3.9kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

1000W 尺寸图与性能表
1000W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 尺寸图 Dimensional Drawing

●125ZDR9-1000



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	100	M6深(depth)15	90	19	80	4	55
T2	115	M6深(depth)15	100	24	95	4	55
T3	115	M8深(depth)15	100	24	95	4	55

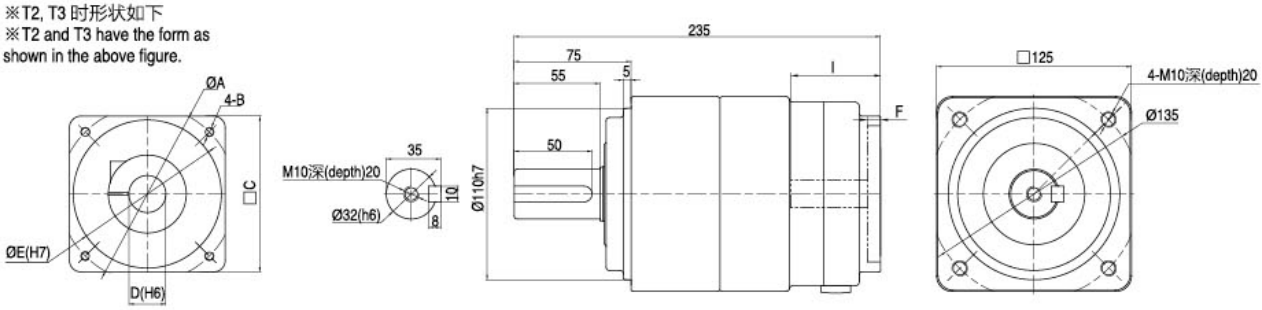
●概略重量11.0kg
●Rough weight 11.0kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●125ZDR15•25-1000

Input输入

※T2, T3 时形状如下
※T2 and T3 have the form as shown in the above figure.

Output输出



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	100	M6深(depth)15	90	19	80	4	55
T2	115	M6深(depth)15	100	24	95	4	55
T3	115	M8深(depth)15	100	24	95	4	55

●概略重量12.0kg
●Rough weight 12.0kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

1500W 尺寸图与性能表
1500W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

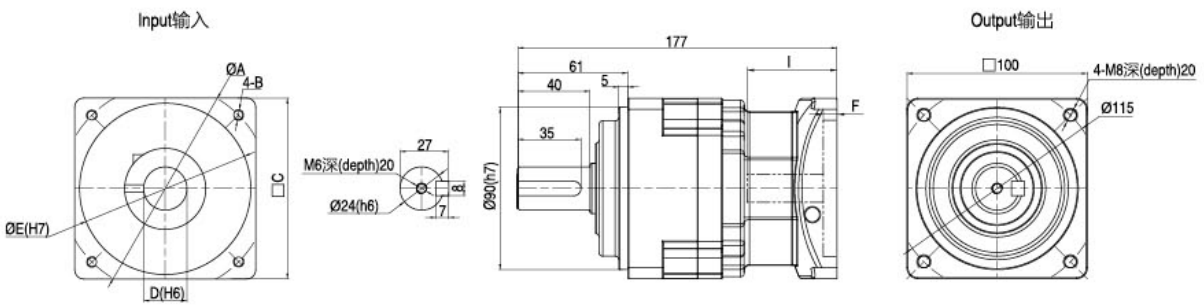
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor	(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
1500W	1/3	98	ZDR	3	1500	1000	12.3	37.1	882	441	2.43	18.3	54.9
	1/5	98	ZDR	5	1500	600	21.5	64.4	1080	539	1.85	23.5	70.6
	1/9	125	ZDR	9	1500	333	34.3	103	1960	980	2.81	73.5	221
	1/15	125	ZDR	15	1500	200	57.2	172	2350	1180	2.80	91.4	274

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●98ZDR3•5-1500



■法兰部位详细尺寸表Detailed flange dimensions table（单位Unit: mm）

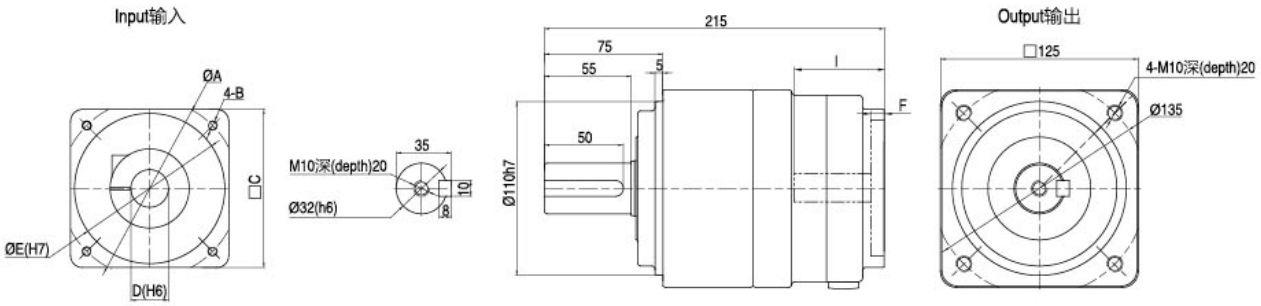
马达种类Motor type	A	B	C	D	E	F	I
T1	115	M8深(depth)15	100	19	95	4	55
T2	115	M6深(depth)15	100	24	95	4	55
T3	115	M8深(depth)15	100	24	95	4	55

●概略重量3.9kg
●Rough weight 3.9kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

1500W 尺寸图与性能表
1500W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 尺寸图 Dimensional Drawing

●125ZDR9-1500

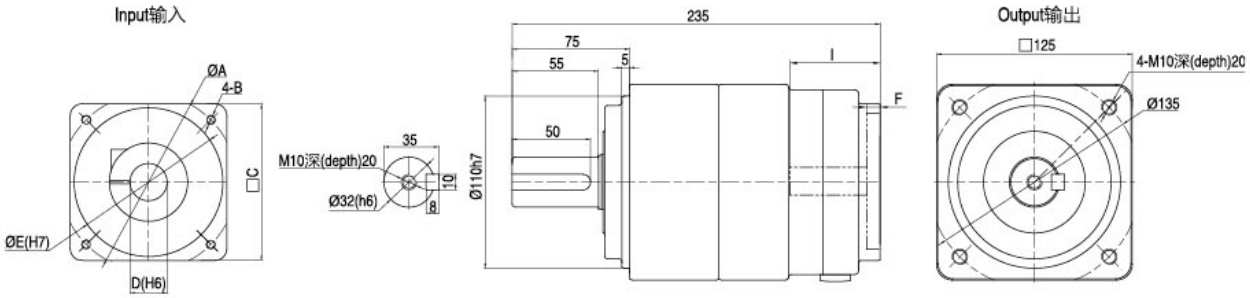


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	115	M8深(depth)15	100	19	95	4	55
T2	115	M6深(depth)15	100	24	95	4	55
T3	115	M8深(depth)15	100	24	95	4	55

●概略重量11.5kg
●Rough weight 11.5kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●125ZDR15-1500



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	115	M8深(depth)15	100	19	95	4	55
T2	115	M6深(depth)15	100	24	95	4	55
T3	115	M8深(depth)15	100	24	95	4	55

●概略重量12.5kg
●Rough weight 12.5kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

2000W 尺寸图与性能表
2000W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

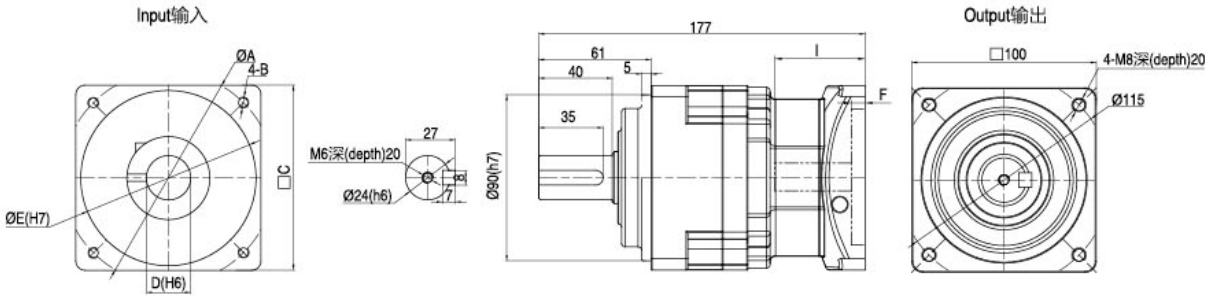
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
2000W	1/3	98	ZDR	3	2000	1000	17.2	51.5	882	441	2.43	18.3	54.9
	1/5	125	ZDR	5	2000	600	23.8	71.5	1670	833	3.50	56.8	171
	1/9	125	ZDR	9	2000	333	48.6	146	1960	980	2.81	73.5	221
	1/15	125	ZDR	15	2000	200	81.0	243	2350	1180	2.80	91.4	274

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●98ZDR3-2000



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

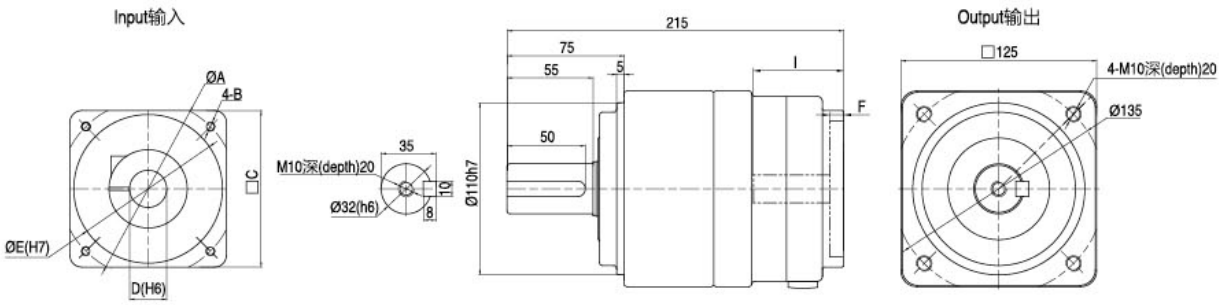
马达种类Motor type	A	B	C	D	E	F	I
T1	115	M8深(depth)15	100	19	95	4	55
T2	115	M6深(depth)15	100	24	95	4	55
T3	115	M8深(depth)15	100	24	95	4	55

●概略重量3.9kg
●Rough weight 3.9kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

2000W 尺寸图与性能表
2000W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 尺寸图 Dimensional Drawing

●125ZDR5•9-2000

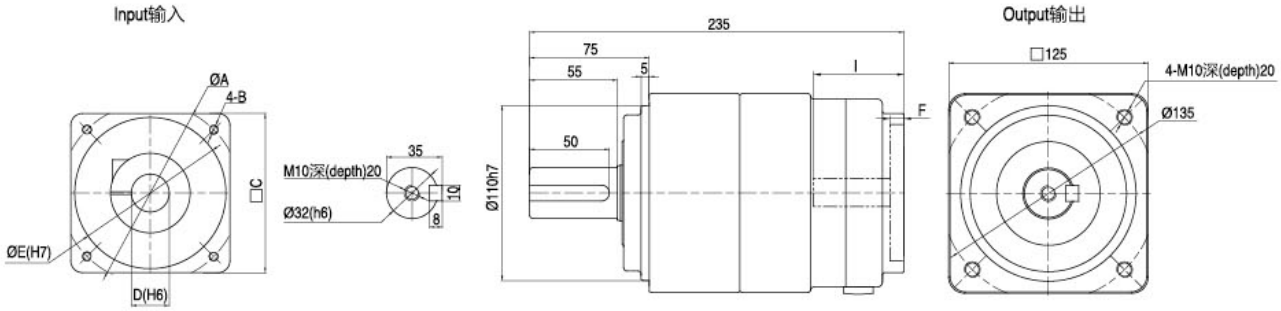


■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	115	M8深(depth)15	100	19	95	4	55
T2	115	M6深(depth)15	100	24	95	4	55
T3	115	M8深(depth)15	100	24	95	4	55

●概略重量11.5kg
●Rough weight 11.5kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

●125ZDR15-2000



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	115	M8深(depth)15	100	19	95	4	55
T2	115	M6深(depth)15	100	24	95	4	55
T3	115	M8深(depth)15	100	24	95	4	55

●概略重量12.5kg
●Rough weight 12.5kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

2500W 尺寸图与性能表
2500W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

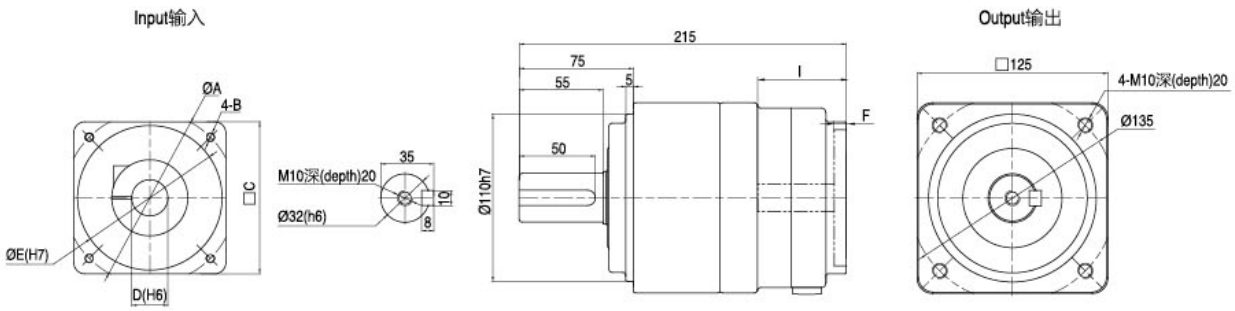
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
2500W	1/3	125	ZDR	3	2500	1000	19.0	57.2	1370	686	5.55	44.1	132
	1/5	125	ZDR	5	2500	600	31.8	95.5	1670	833	3.50	56.8	171
	1/9	125	ZDR	9	2500	333	60.8	182	1960	980	2.81	73.5	221

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●125ZDR3•5•9-2500



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	l
T1	115	M8深(depth)15	100	19	95	4	55
T2	115	M6深(depth)15	100	24	95	4	55
T3	-	-	-	-	-	-	-

- ●概略重量11.5kg
- ●Rough weight 11.5kg
- ●T1~3的详细情况请参照P.188
- ●For details of T1~3, see 188 page.

3000W 尺寸图与性能表
3000W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

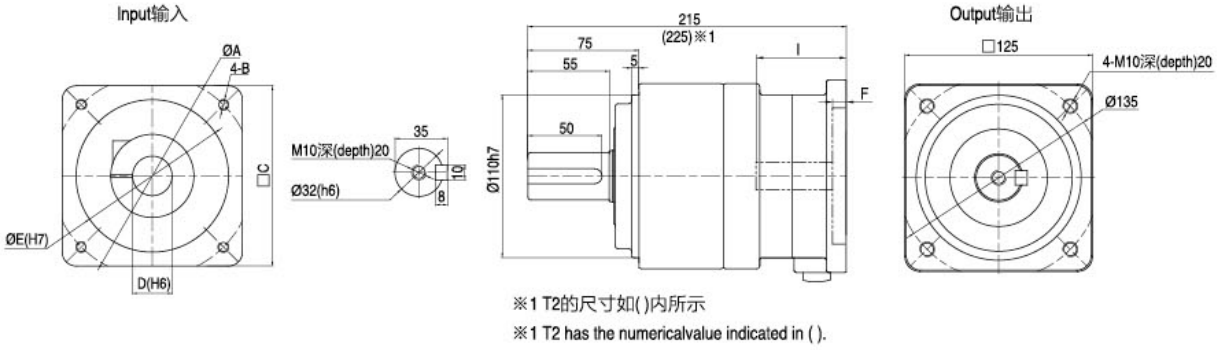
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
3000W	1/3	125	ZDR	3	3000	1000	23.7	71.2	1370	686	5.50	44.1	132
	1/5	125	ZDR	5	3000	600	39.6	119	1670	833	3.48	56.8	171
	1/9	125	ZDR	9	3000	333	73.0	219	1960	980	2.77	73.5	221

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●125ZDR3•5•9-3000



※1 T2的尺寸如( )内所示
※1 T2 has the numericalvalue indicated in ( ).

■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	130	M8深(depth)15	120	22	110	7	55
T2	145	M8深(depth)15	130	28	110	7	65
T3	-	-	-	-	-	-	-

●概略重量12.0kg
●Rough weight 12.0kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

3500W 尺寸图与性能表
3500W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

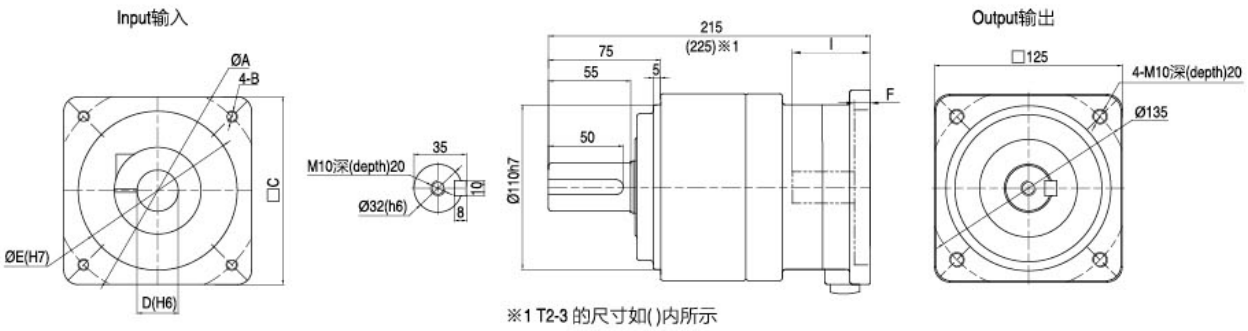
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
3500W	1/3	125	ZDR	3	3500	1000	28.3	85.2	1370	686	5.50	44.1	132
	1/5	125	ZDR	5	3500	600	47.2	141	1670	833	3.48	56.8	171

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●125ZDR3•5-3500



※1 T2-3 的尺寸如( )内所示
※1 T2-3 has the numericalvalue indicated in ( ).

■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	130	M8深(depth)15	120	22	110	7	55
T2	-	-	-	-	-	-	-
T3	145	M8深(depth)15	130	28	110	7	65

● 概略重量12.0kg
● Rough weight 12.0kg
● T1~3的详细情况请参照P.188
● For details of T1~3, see 188 page.

4000W 尺寸图与性能表
4000W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

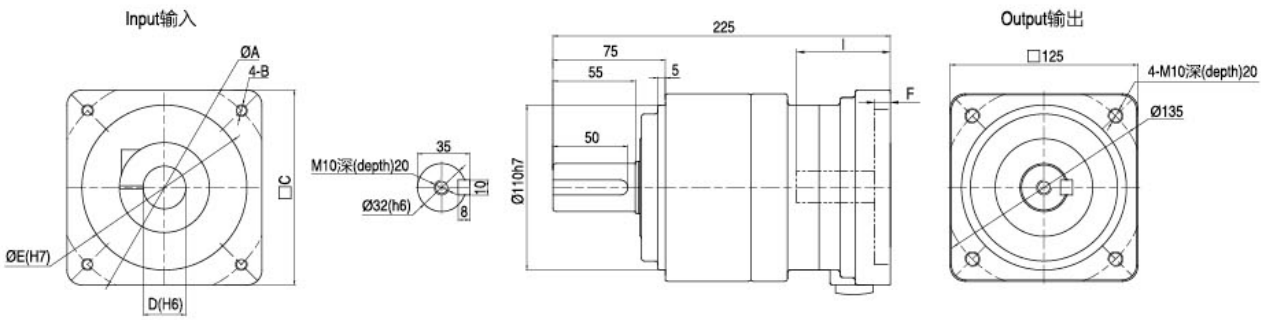
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
4000W	1/3	125	ZDR	3	4000	1000	33.1	99.0	1370	686	5.78	44.1	132
	1/5	125	ZDR	5	4000	600	55.3	166	1670	833	3.75	56.8	171

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●125ZDR3•5-4000



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	145	M8深(depth)15	130	24	110	7	65
T2	145	M8深(depth)15	130	28	110	7	65
T3	-	-	-	-	-	-	-

●概略重量13.0kg
●Rough weight 13.0kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

4500W 尺寸图与性能表
4500W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

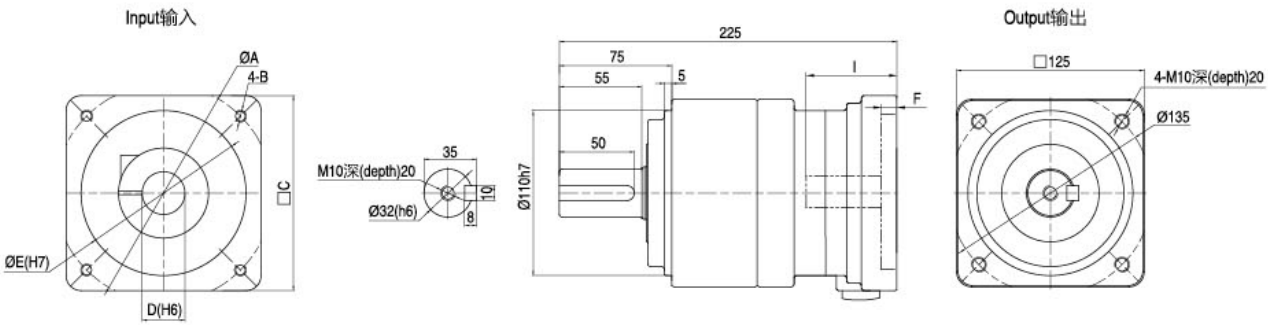
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
4500W	1/3	125	ZDR	3	4500	1000	37.7	113	1370	686	5.78	44.1	132

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●125ZDR3-4500



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	145	M8深(depth)15	130	24	110	7	65
T2	-	-	-	-	-	-	-
T3	-	-	-	-	-	-	-

●概略重量13.0kg
●Rough weight 13.0kg
●T1~3的详细情况请参照P.188
●For details of T1~3, see 188 page.

5000W 尺寸图与性能表
5000W DIMENSIONAL DRAWING & PERFORMANCE TABLE

■ 性能表 Performance Table (输入转速为3,000rpm时 When input speed is 3000rpm)

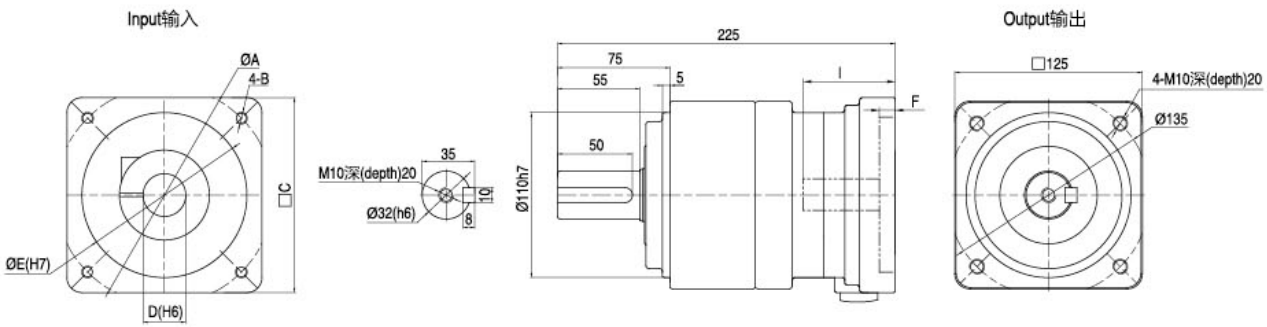
额定输入马达功率 Rated input motor	减速比 Reduction ratio	型号 Type				输出轴转速 Output shaft speed	额定输出扭矩 Standard output torque	瞬间最大输出扭矩 Instantaneous max. output torque	容许径向负荷 Permissible radial load	容许轴向负荷 Permissible axial load	输入轴换算内部惯性力矩 Internal moment of inertia of input shaft conversion	容许输出扭矩 Permissible output torque	瞬间最大容许输出扭矩 Instantaneous max. permissible output torque
		机座号 Type no.	系列号 Model	减速比 Reduction ratio	马达功率 Motor								
						(rpm)	(N·m)	(N·m)	(N)	(N)	($x10^{-4}kg.m^2$)	(N·m)	(N·m)
5000W	1/3	125	ZDR	3	5000	1000	42.9	128	1370	686	5.78	44.1	132

注1) 安装基准系列（马达适用表记载系列）以外的马达时，每次都要与我们联系。（法兰尺寸可能不同）
注2) 输入轴换算惯性力矩仅为减速机的数值，不包括马达的惯性力矩。
注3) 最高输入转速为5000rpm。正常情况下请转速控制在3000rpm以下。
注4) 容许径向负荷表示输出轴中央部位的值。
注5) 全部为斜齿轮适用范围。
注6) 马达的安装顺序请参照P.190
注7) 输出轴旋转方向与马达输入旋转方向相同。

Note 1) In case of attachment to a motor beyond the standard models(motor matching series), contact us.(How to measure dimensions of the flange may be changed in some cases.)
Note 2) The moment of inertia of input shaft conversion is only gained from the reducer, so it does not include moment of inertia of the motor.
Note 3) The max. input speed is 5000rpm, and usually set to 3000rpm or less.
Note 4) The permissible radial load is indicated on the center of the output shaft.
Note 5) All values are within the range corresponding to helical gear.
Note 6) For motor assembly procedure, see 46 page.
Note 7) Rotation of the output shaft is in the same direction as motor.

■ 尺寸图 Dimensional Drawing

●125ZDR3-5000



■法兰部位详细尺寸表Detailed flange dimensions table (单位Unit: mm)

马达种类Motor type	A	B	C	D	E	F	I
T1	145	M8深(depth)15	130	24	110	7	65
T2	145	M8深(depth)15	130	28	110	7	65
T3	145	M8深(depth)15	130	28	110	7	65

- ●概略重量13.0kg
- ●Rough weight 13.0kg
- ●T1~3的详细情况请参照P.188
- ●For details of T1~3, see 188 page.