

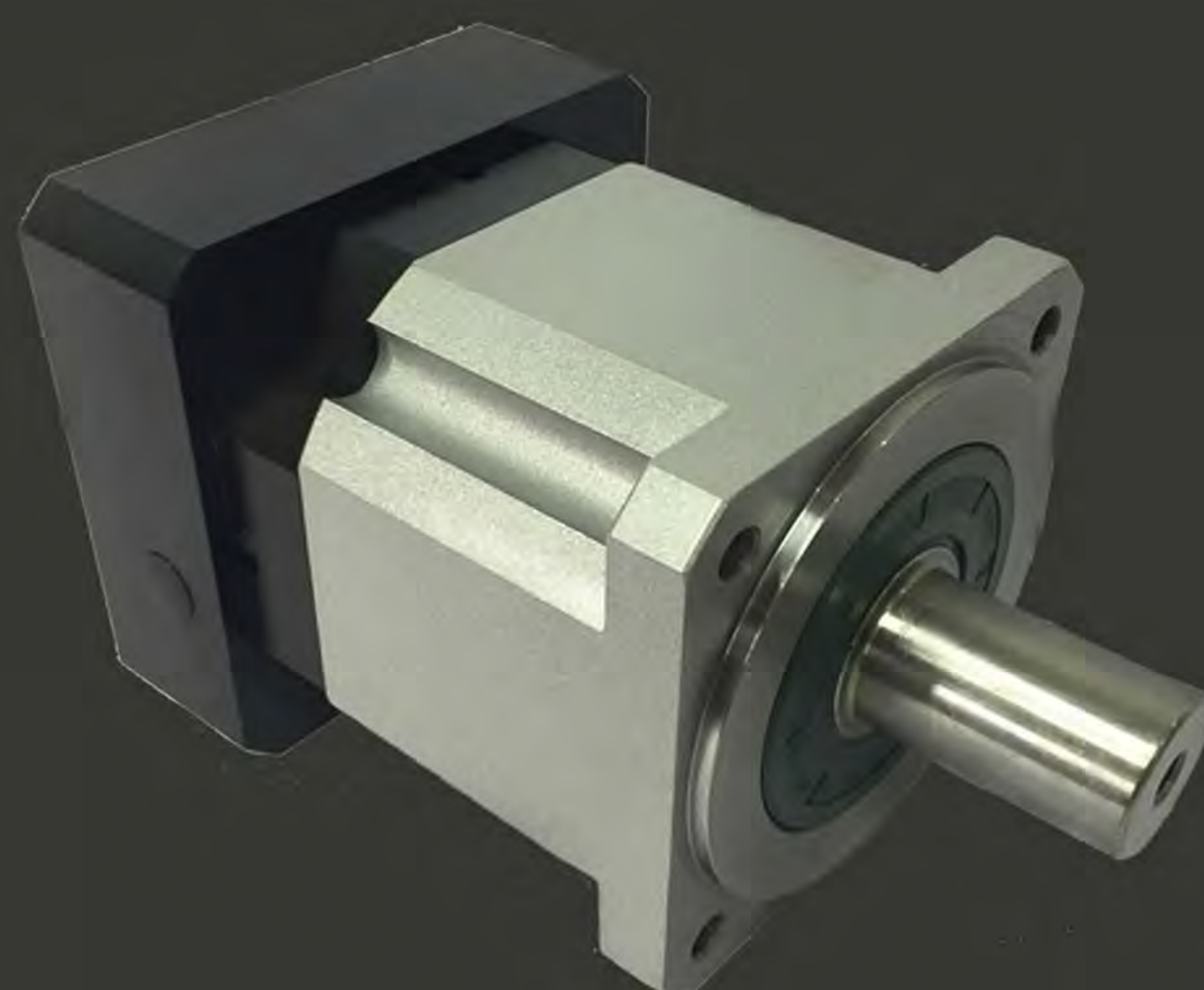


浙江格尔减速机有限公司

ZHEJIANG GEAR SPEED REDUCDCR CO.,LTD

致力于打造一流的驱动技术方案

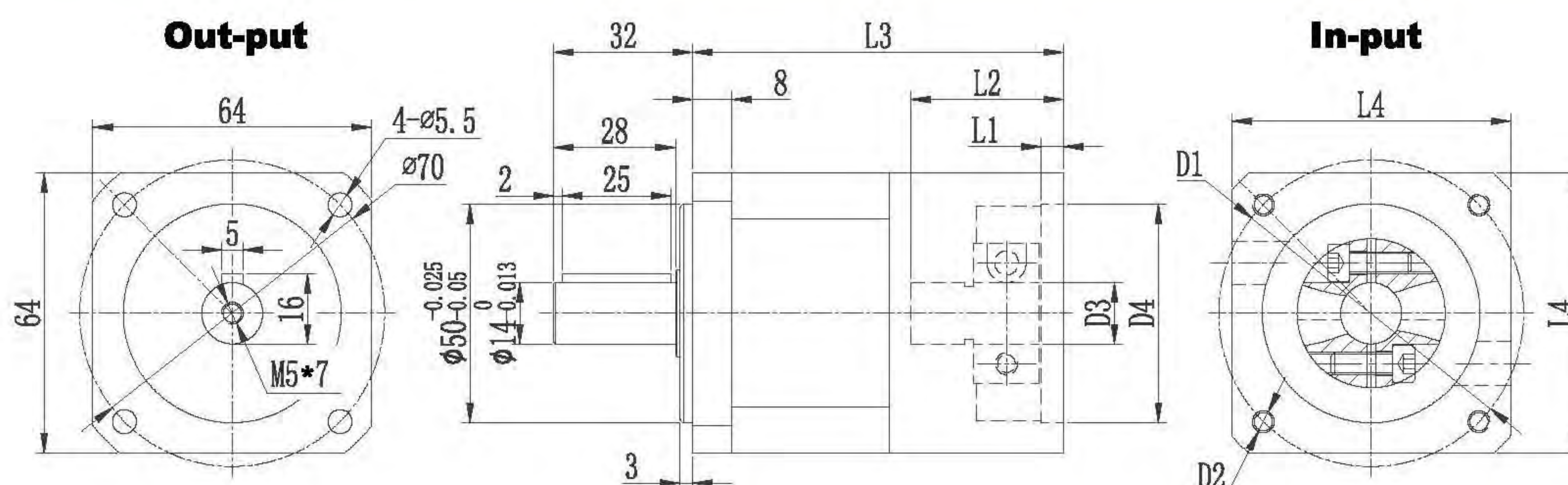
PROVIDE FIRST CLASS DRIVING SOLUTION



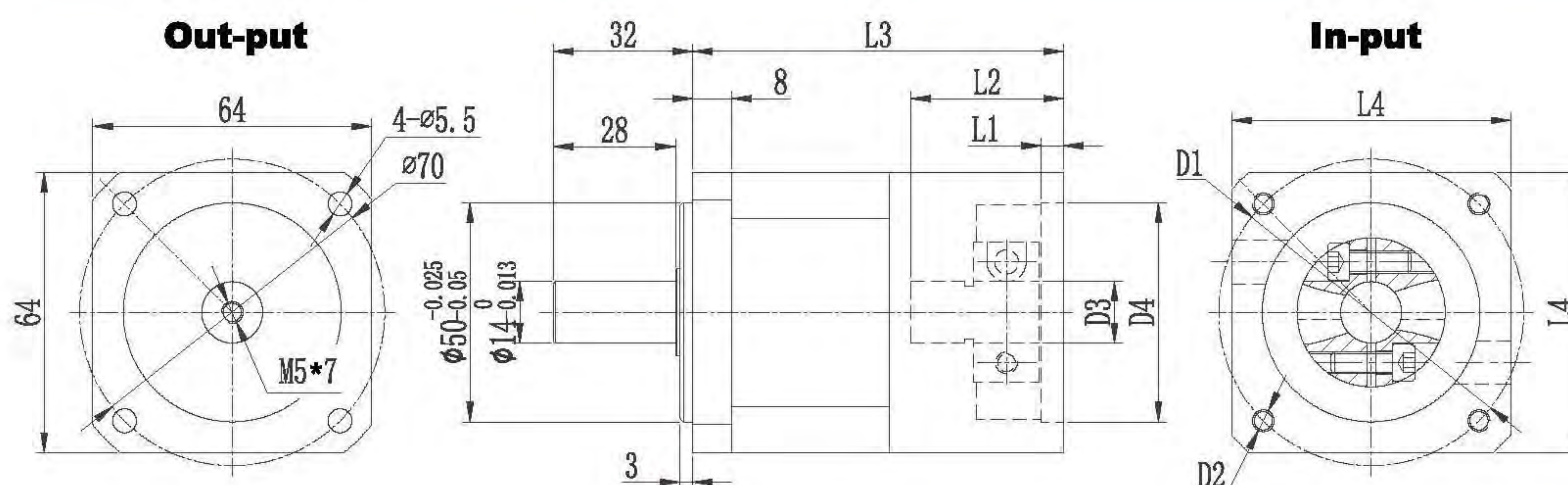
产品手册
CATALOGUE

ZB SERIES TECHNICAL SPECIFICATIONS												
Specification	Units	Stage	Ratio	ZB60	ZB90	ZB115	ZB142	ZB190	ZB240	ZB285	ZB330	ZB400
Rated Output Torque/T2N	NM	L1	3	25	50	140	310	1200	1900	3175	5043	7500
			4	42	120	260	800	1780	3710	6400	10000	17000
			5	40	110	240	680	1345	3000	5500	8800	16000
			7			105	470					
			8	18	55			850	1700	3200	5000	7500
			10	15	32	100	230	750	950	1600	3500	7600
		L2	9	42	50	140	340	1070	1830	3175	5043	7500
			12	41	50	200	680	1485	1836	6400	10000	17000
			15	41	50	200	680	1485	1836	5500	8800	16000
			16	42	110	260	800	2035	3710	6400	10000	17000
			20	42	110	260	800	2035	3710	6400	10000	17000
			25	40	100	240	680	1485	3000	5500	8800	16000
			28			235	800	2035	3710	6400	10000	17000
			30	25	65	235	680	2035	1900	5500	8800	16000
			32	45	125			2035	3710	6400	10000	17000
			35			140	590	1450	3000	5120	8500	12200
			40	42	100	260	680	1780	3710	5500	8800	16000
			50			120	500	1070	3000	5120	8500	12200
			64	18	55			850	1700	3200	5000	7500
			70			140	470					
			100			125	400	920	950	1820	3500	5000
		L3	60	45	125	260	800	1780	3700	6400	10000	17000
			64	42	120	260	800	2590	3710	6400	10000	17000
			80	45	110	260	800	2590	3710	6400	10000	17000
			100	45	110	260	800	2590	3710	6400	10000	17000
			120	40	110	260	800	2590	1900	6400	10000	17000
			125	41	110	230	700	1600	3100	5500	8800	16000
			140			260	800	2590	3710			
			150			260	800	2590	1900	5500	8800	16000
			160	45	120	260	800	2590	3700	6400	10000	17000
			200	40	90	230	800	1855	3710	5500	8800	17000
			250			200	680	2596	3000	5120	8500	12200
			256	45	125			1780	3000	6400	10000	17000
			320	41	110			1600	3100	5500	8800	16000
			350			112	515	1450	2270	5120	8500	12200
			400			112	515	1450	2270	5120	9800	16000
			500			112	515	1450	2270	5120	9800	16000
			512	18	55			850	1700	3200	5000	7500
			700			112	515					
			1000			112	400	730	1050	1820	3500	5000
		L4	Above 4 Stages Please Contact Us									
Backlash (arcmin)			L1	≤8	≤8	≤8	≤8	≤10	≤12	≤12	≤15	≤18
			L2	≤10	≤10	≤10	≤10	≤12	≤14	≤15	≤18	≤20
			L3	≤12	≤12	≤12	≤12	≤15	≤18	≤20	≤22	≤24
Max.Radial Force			N	265	450	1240	3700	6500	10500	15000	17000	26500
Max.Axial Force			N	200	420	1000	3500	5000	10000	12000	15000	20000
Emergency Stop Torque			NM	2 Times Rated Torque								
Effiency (η)			L1	96%								
			L2	94%								
			L3	90%								
Rated Input Speed(rpm)				3500	3500	3000	2000	1500	1500	1500	1500	1500
Max.Input Speed(rpm)				7000	6000	5000	3500	3000	2500	2000	2000	2000
GWT (kg)			L1	1.3	3.6	9.25	20	31	70	113	145	250
			L2	1.5	4.2	11.5	25	42	88	136	190	340
			L3	1.8	4.8	13.5	30	50	96	140	215	360
Service Life			h	20000 Hrs								
Noise			dB	≤60	≤62	≤65	≤65	≤68	≤68	≤78	≤80	≤80
Lubrication				Whole-life Free Service(Synthetic Complex Soap Grease)								
Operating Temperature				'-10℃~+90℃ (Beyond Temperature Please Contact Us)								
Mounting				Any Position								
Protect Class				IP65								
1. About L1 specifications major are measured on 5 : 1 gear ratio. 2. Ratios; (i = N _{in} /Out) 3. Backlash : Measured on 2% of nominal output torque. 4. Max. Radial and Axial Load; Applied to the output shaft center, and 50% of duty time,and at 100rpm. 5. Duty Cycle < 60%, Average Lifetime = List value; Duty Cycle ≥ 60%, Average Lifetime < 50% List value. 6. Noise Level; Distance 1m, and measured on Idle running, and at nominal input speed.												

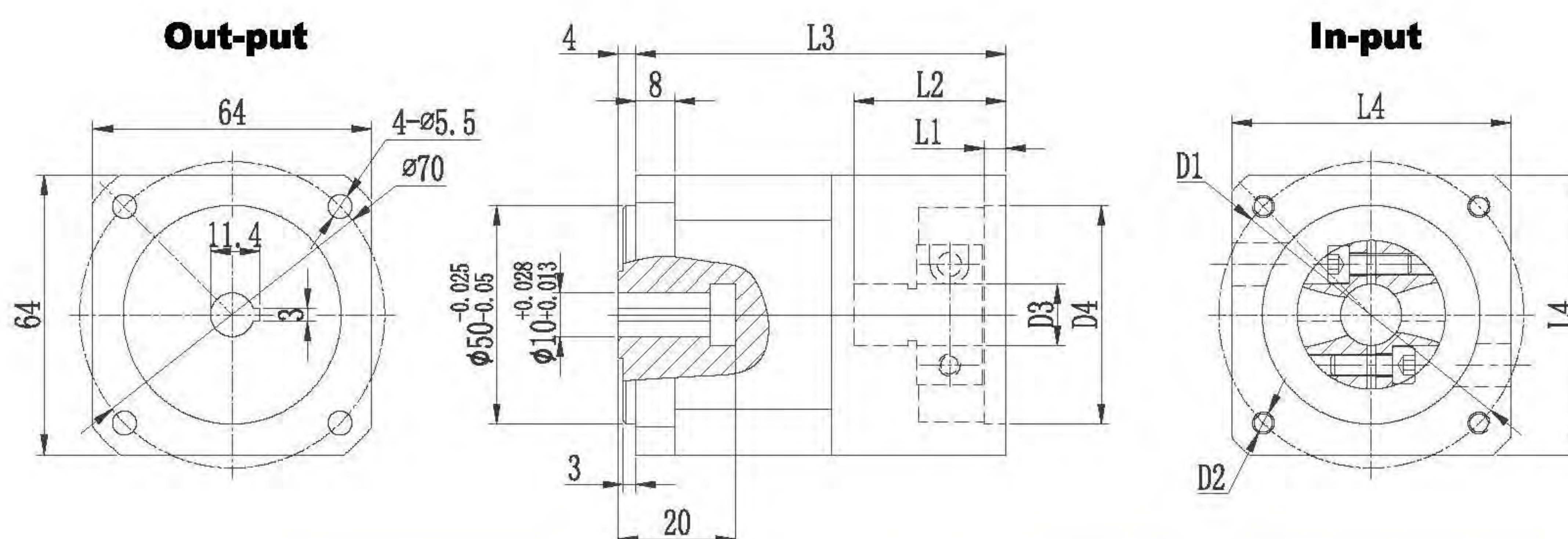
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



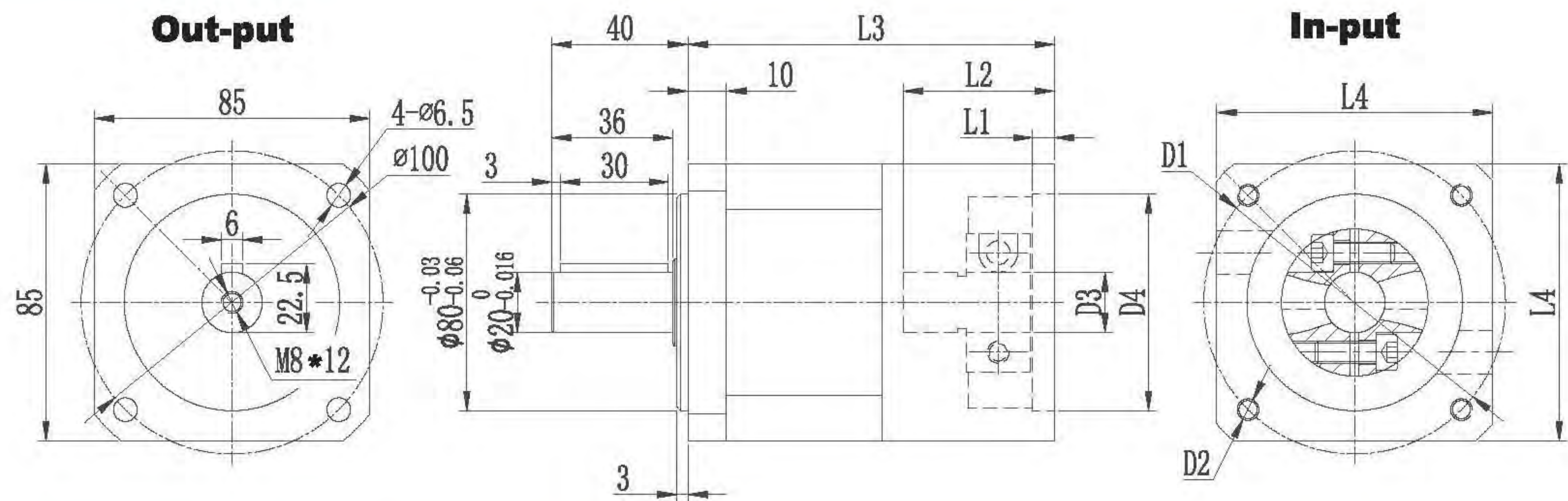
Motor	D1	D2	D3	L2	D4	L1	L4	L1 (Stage 1)	L2 (Stage 2)	L3 (Stage 3)
0.2KW	70	4-M4/M5	ø11 (F7)	35	ø50 (F7)	5	64	94	113	132
0.4KW	70	4-M4/M5	ø14 (F7)	35	ø50 (F7)	5	64	94	113	132

Note: Above mentioned size based on standard product, we are accept any others change.

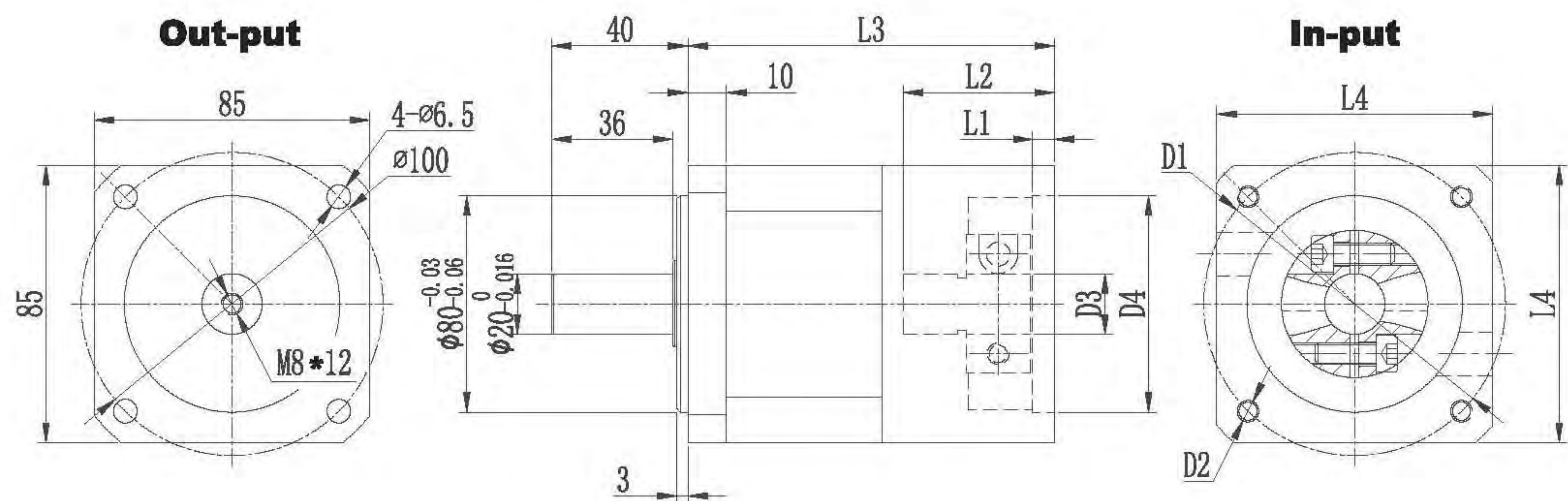
ZB90 Drawing Diemensions



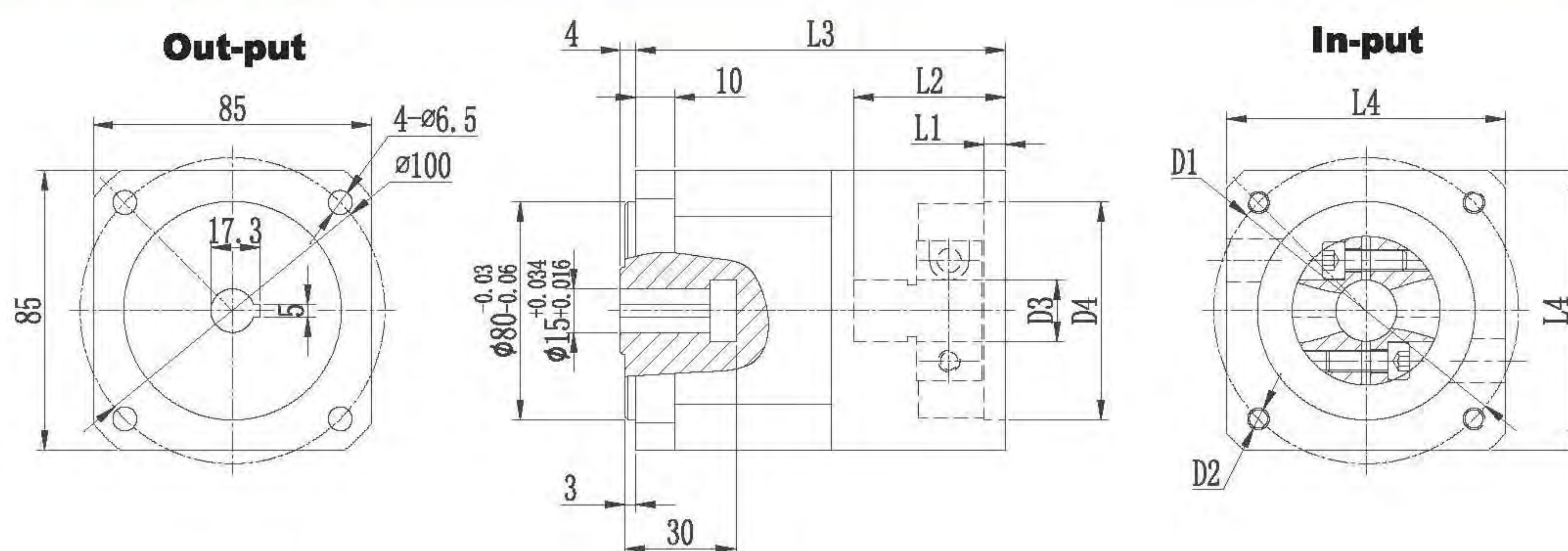
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



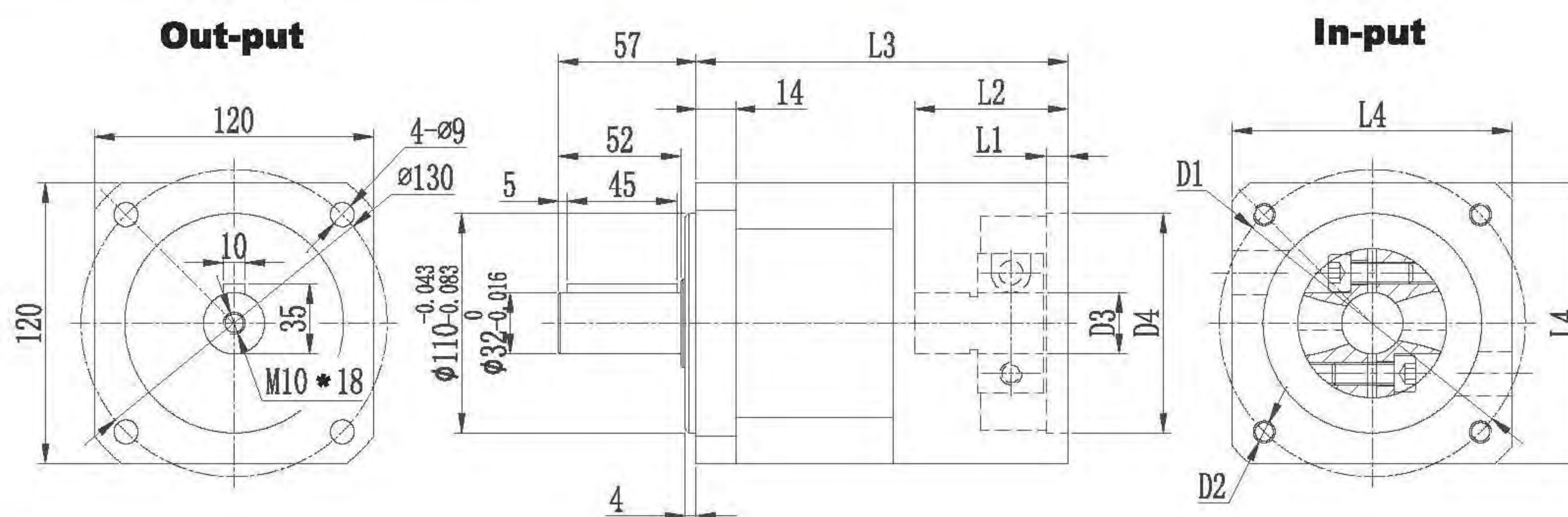
Motor	D1	D2	D3	L2	D4	L1	L4	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
0.4KW	70	4-M4/M5	φ14 (F7)	45	50 (F7)	5	85	100	120	139
0.75KW	90	4-M5/M6	φ19 (F7)	45	70 (F7)	5	85	100	120	139

Note: Above mentioned size based on standard product,
we are accept any others change.

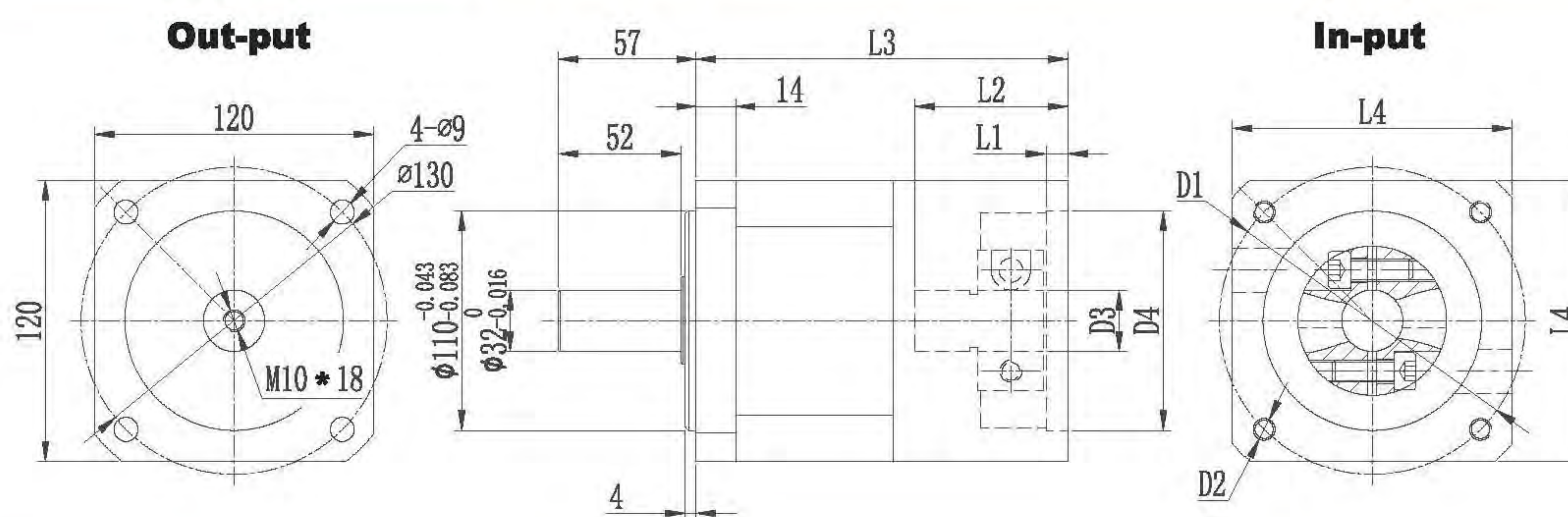


ZB115 Drawing Diemensions

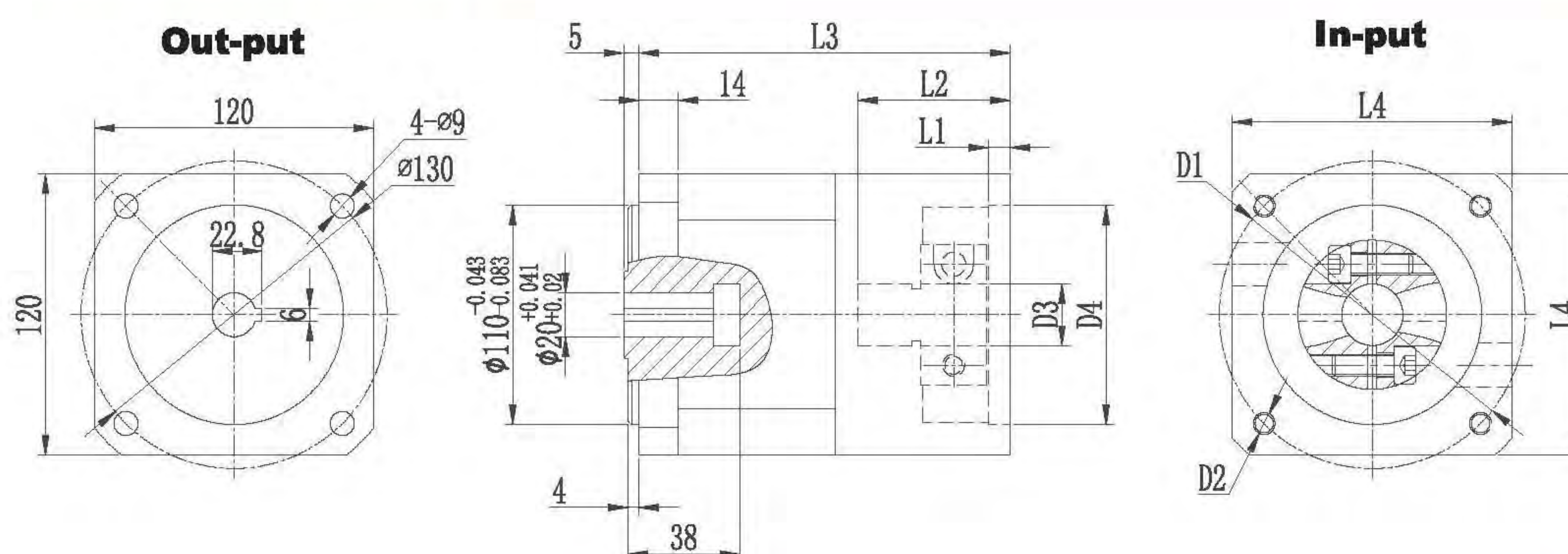
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



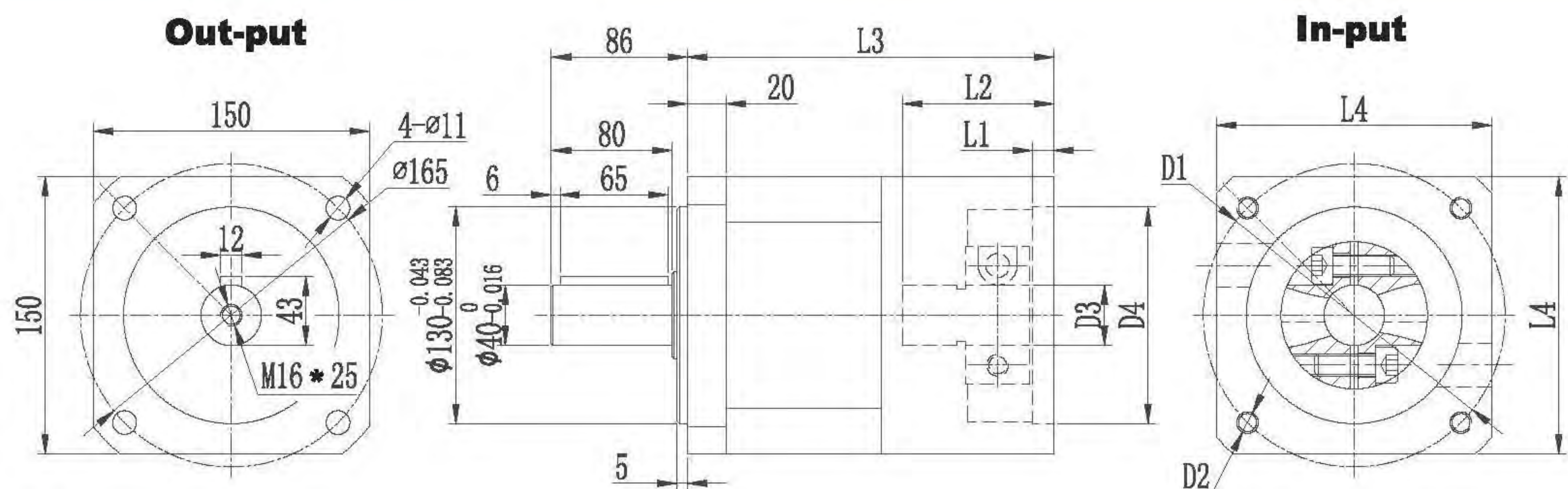
Motor	D1	D2	D3	L2	D4	L1	L4	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
0.75KW	90	4-M6	ø19(F7)	62	ø70(F7)	10	130	152	184	216
1KW/1.5KW	145/130	4-M8	ø22/24(F7)	62	ø110(F7)	10	130	152	184	216

Note:Above mentioned size based on standard product, we are accept any others change.

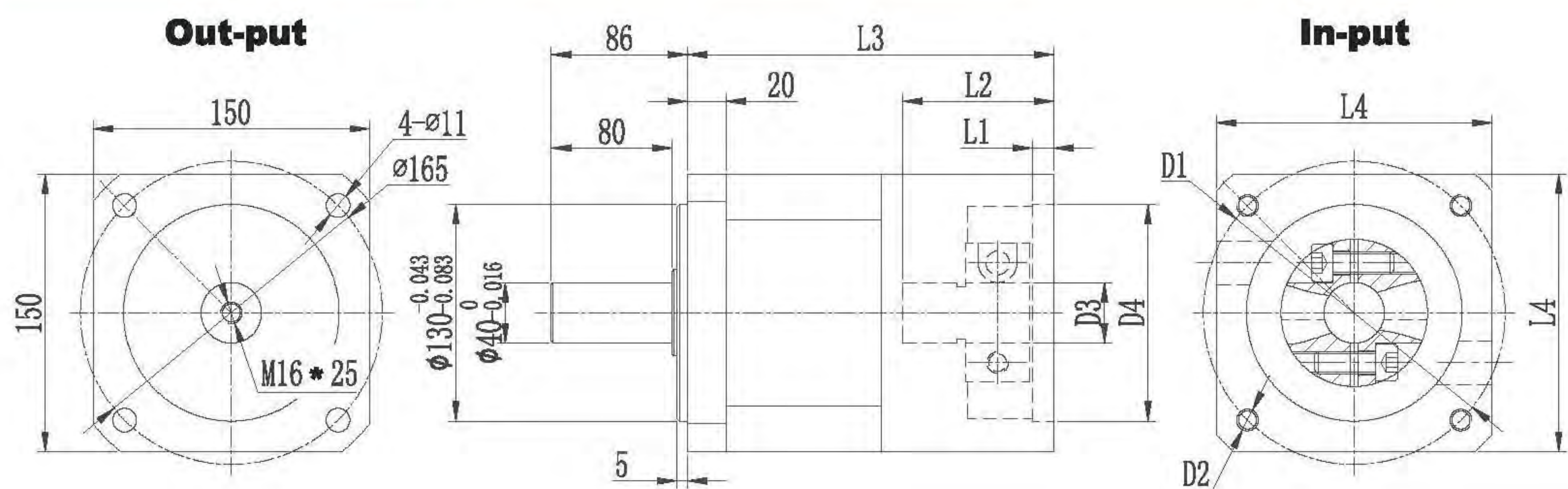


ZB142 Drawing Diemensions

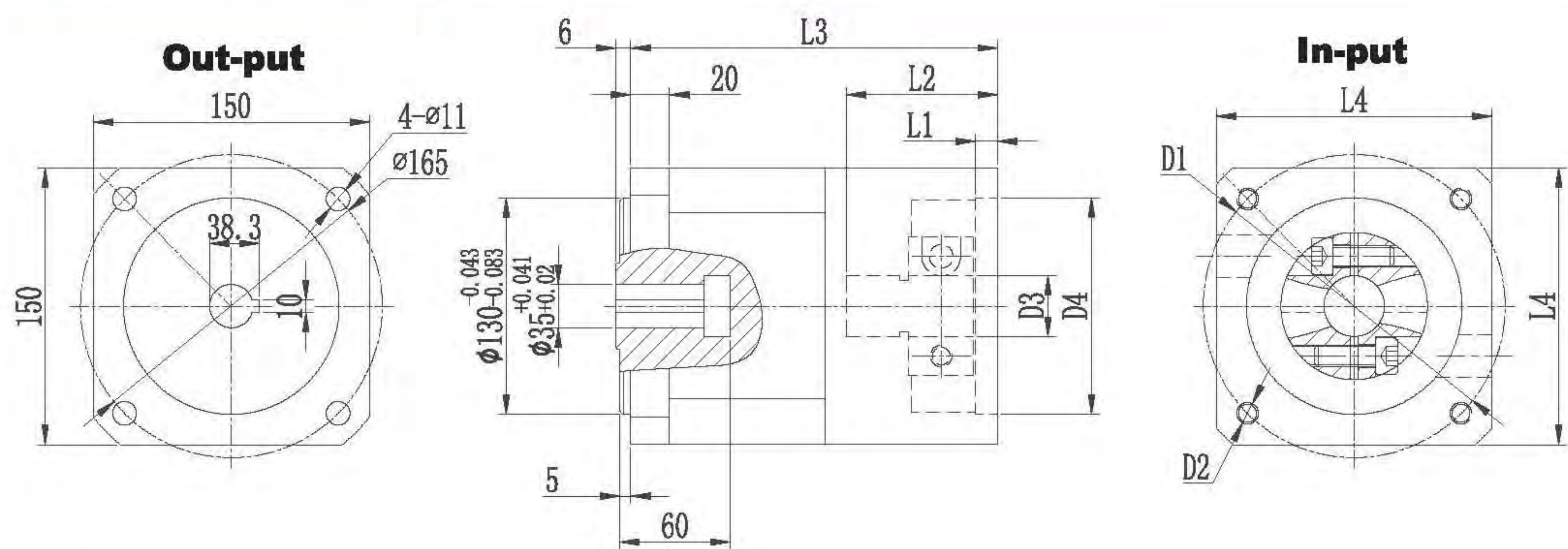
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



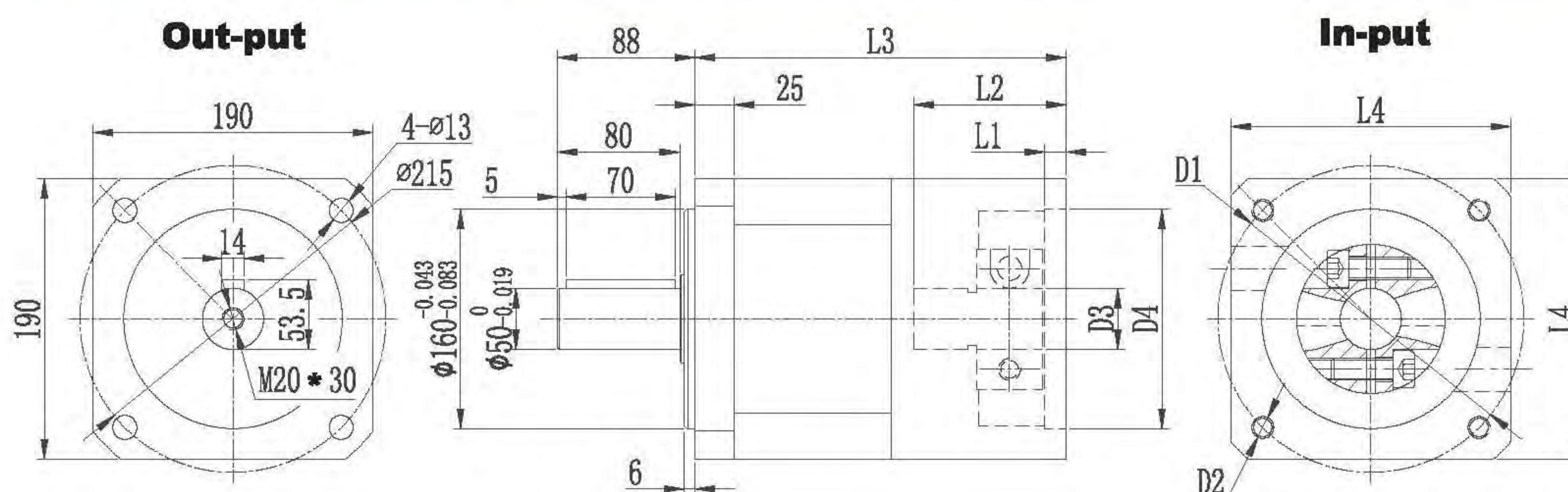
Motor	D1	D2	D3	L2	D4	L1	L4	L1 (Stage 1)	L2 (Stage 2)	L3 (Stage 3)
2.0KW	145	4-M8	$\phi 22$ (F7)	62	110 (F7)	10	150	177	224	271
3.0/4.0KW	200	4-M12	$\phi 35$ (F7)	82	114.3 (F7)	10	180	197	244	291

Note:Above mentioned size based on standard product,
we are accept any others change.

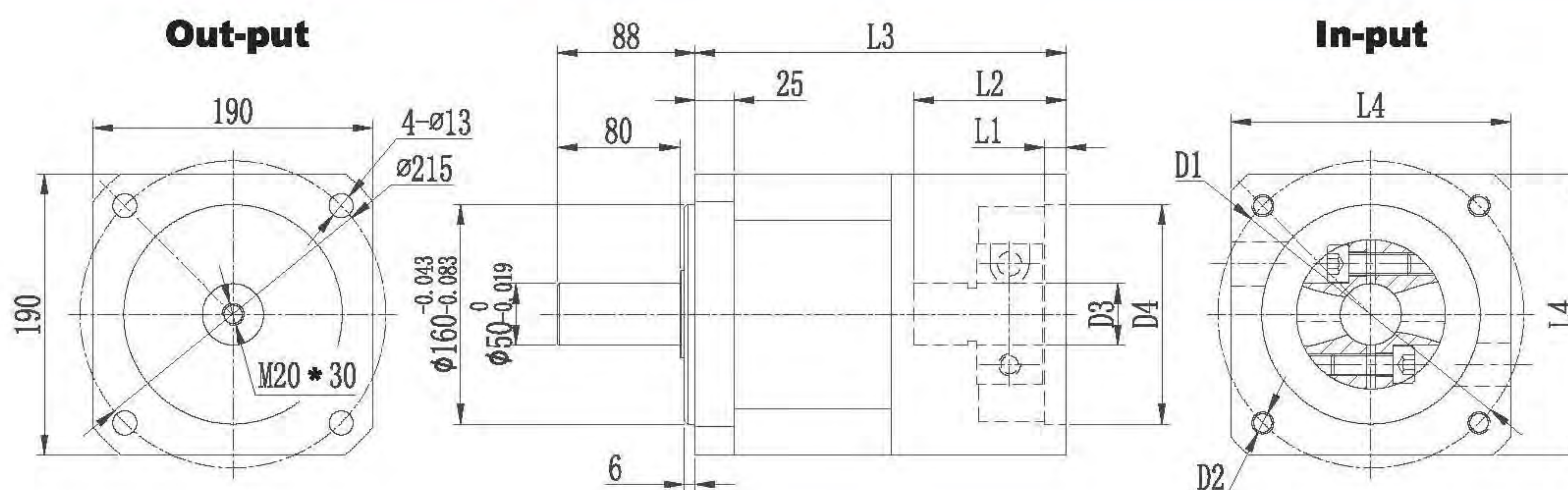


ZB190 Drawing Diemensions

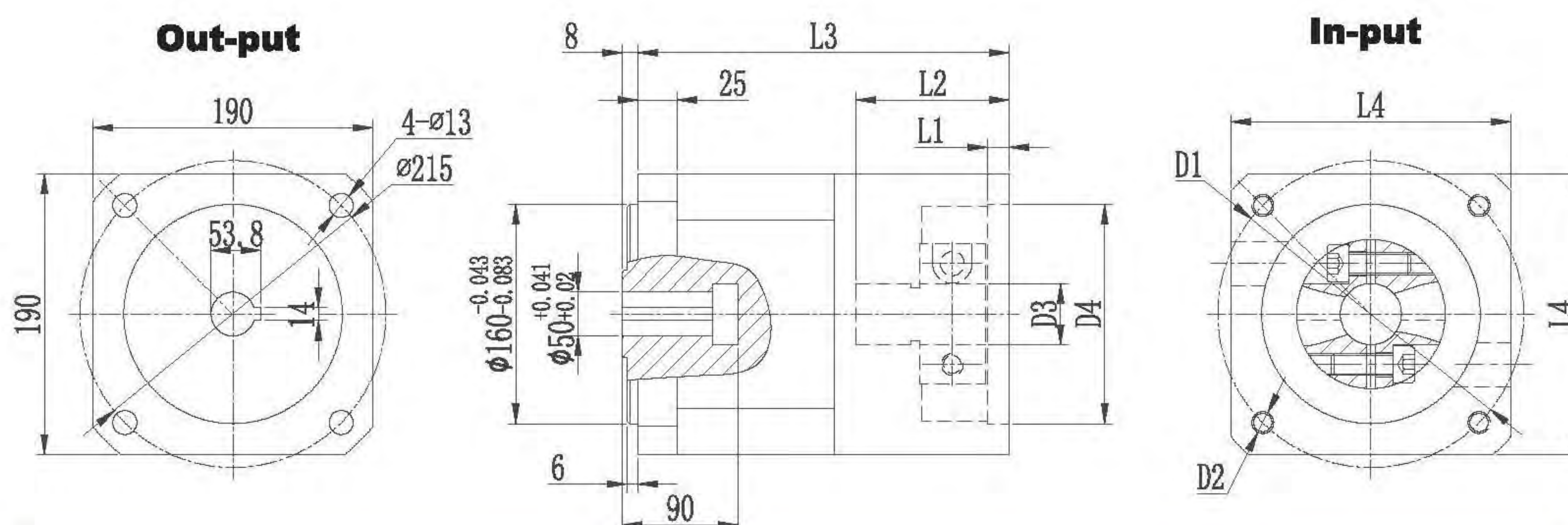
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



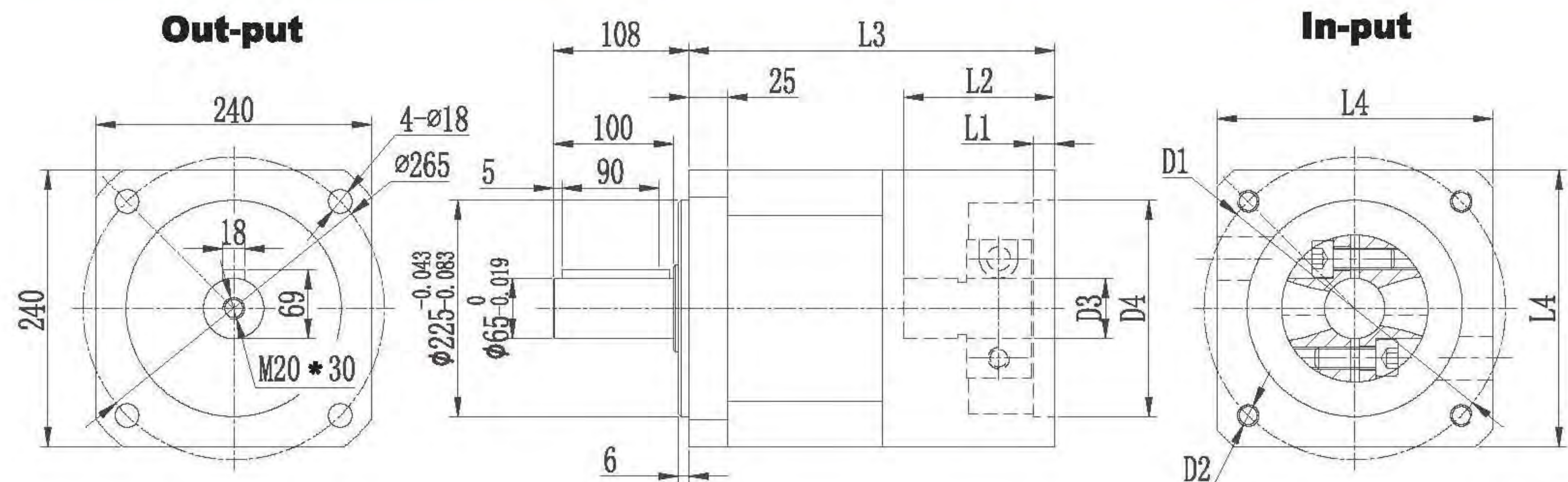
Motor	D1	D2	D3	L2	D4	L1	L4	L1 (Stage 1)	L2 (Stage 2)	L3 (Stage 3)
3.0KW	200	4-M12	$\phi 35$ (F7)	82	114.3 (H7)	10	190	220	273	295
4.0/5.0KW	215	4-M12	$\phi 42$ (F7)	115	180 (H7)	10	190	253	306	328
7.5KW	235	4-M12	$\phi 55$ (F7)	115	200 (H7)	10	220	253	306	328

Note:Above mentioned size based on standard product, we are accept any others change.

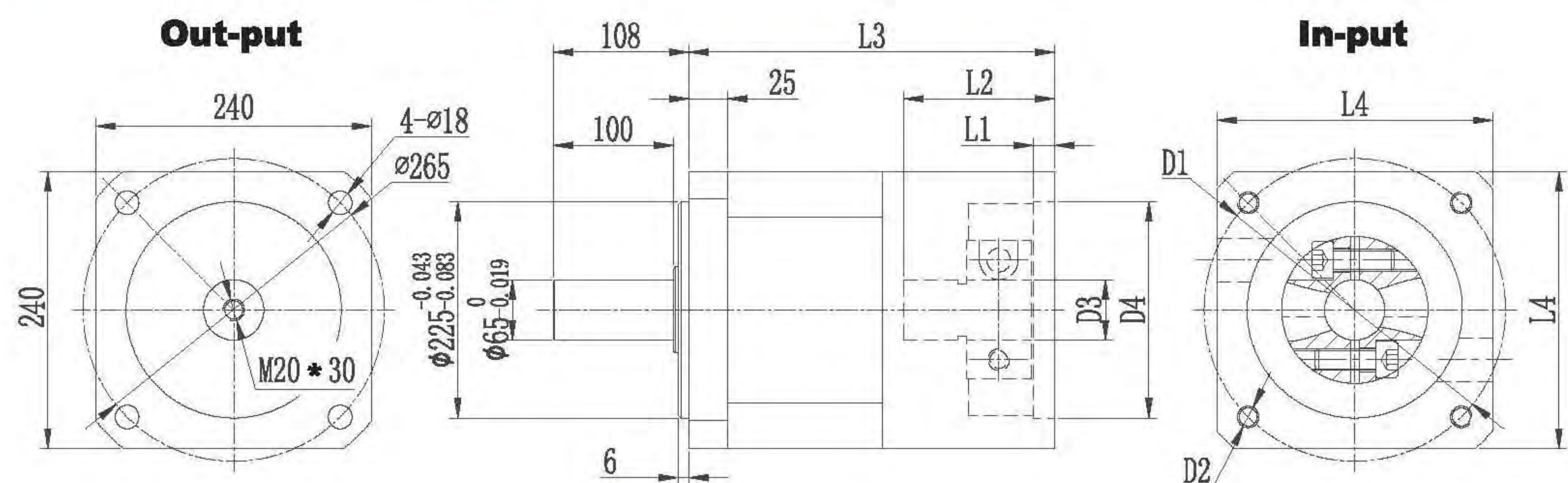
ZB240 Drawing Diemensions



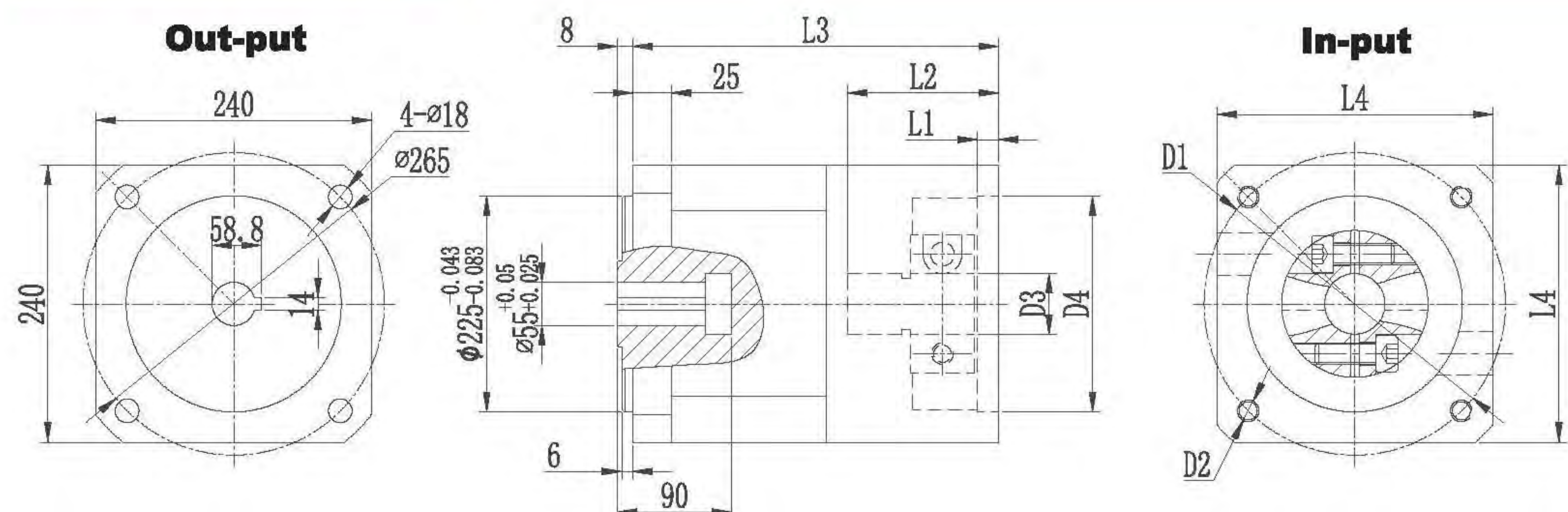
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



Motor	D1	D2	D3	L2	D4	L1	L4	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
3.0KW	200	4-M12	$\phi 35$ (F7)	82	114.3 (H7)	10	190	192	255	300
4.0/5.0KW	215	4-M12	$\phi 42$ (F7)	115	180 (H7)	10	190	222	285	330
7.5KW	235	4-M12	$\phi 55$ (F7)	115	200 (H7)	10	220	222	285	330
11KW	265	4-M12	$\phi 55$ (F7)	115	230 (H7)	10	250	222	285	330

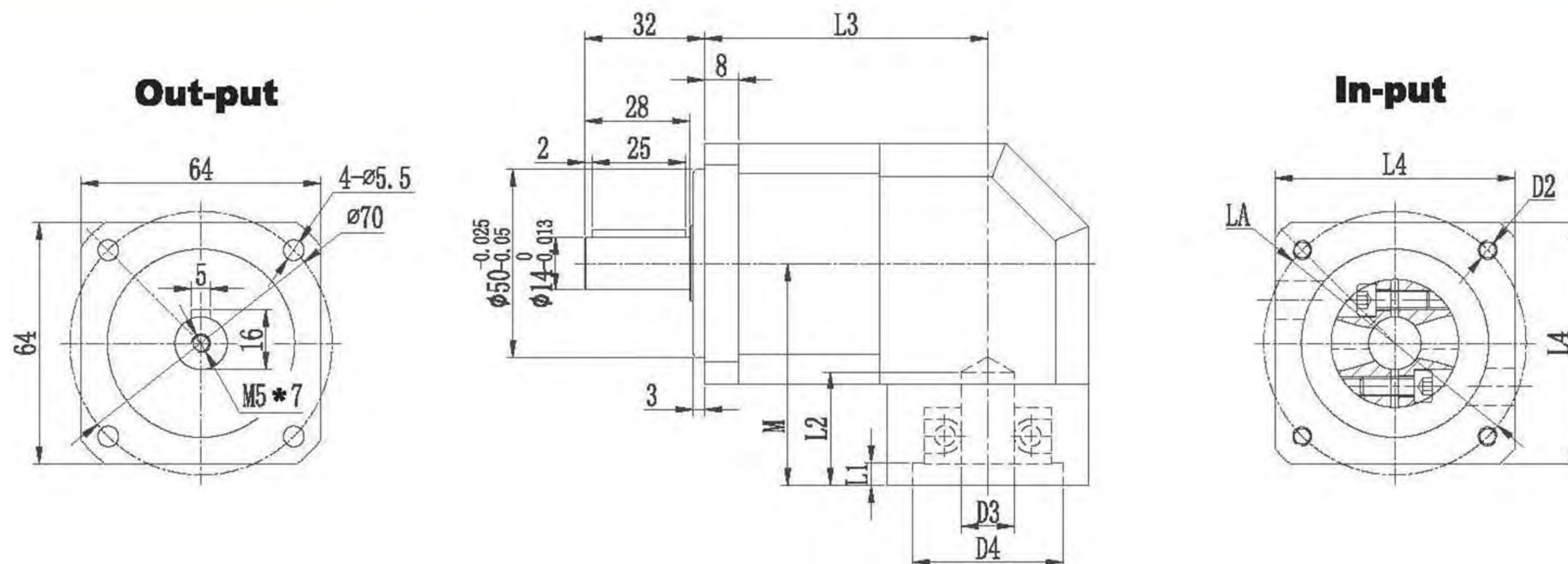
Note:Above mentioned size based on standard product,
we are accept any others change.

ZBR SERIES TECHNICAL SPECIFICATIONS												
Specification	Units	Stage	Ratio	ZBR60	ZBR90	ZBR115	ZBR142	ZBR190	ZBR240	ZBR285	ZBR330	ZBR400
Rated Output Torque/T _{2N}	NM	L1	3	25	50	140	310	1200	1900	3175	5043	7500
			4	42	120	260	800	1780	3710	6400	10000	17000
			5	40	110	240	680	1345	3000	5500	8800	16000
			7			105	470					
			8	18	55			850	1700	3200	5000	7500
			10	15	32	100	230	750	950	1600	3500	7600
		L2	9	42	50	140	340	1070	1830	3175	5043	7500
			12	41	50	200	680	1485	1836	6400	10000	17000
			15	41	50	200	680	1485	1836	5500	8800	16000
			16	42	110	260	800	2035	3710	6400	10000	17000
			20	42	110	260	800	2035	3710	6400	10000	17000
			25	40	100	240	680	1485	3000	5500	8800	16000
			28			235	800	2035	3710	6400	10000	17000
			30	25	65	235	680	2035	1900	5500	8800	16000
			32	45	125			2035	3710	6400	10000	17000
			35			140	590	1450	3000	5120	8500	12200
			40	42	100	260	680	1780	3710	5500	8800	16000
			50			120	500	1070	3000	5120	8500	12200
			64	18	55			850	1700	3200	5000	7500
			70			140	470					
			100			125	400	920	950	1820	3500	5000
		L3	60	45	125	260	800	1780	3700	6400	10000	17000
			64	42	120	260	800	2590	3710	6400	10000	17000
			80	45	110	260	800	2590	3710	6400	10000	17000
			100	45	110	260	800	2590	3710	6400	10000	17000
			120	40	110	260	800	2590	1900	6400	10000	17000
			125	41	110	230	700	1600	3100	5500	8800	16000
			140			260	800	2590	3710			
			150			260	800	2590	1900	5500	8800	16000
			160	45	120	260	800	2590	3700	6400	10000	17000
			200	40	90	230	800	1855	3710	5500	8800	17000
			250			200	680	2596	3000	5120	8500	12200
			256	45	125			1780	3000	6400	10000	17000
			320	41	110			1600	3100	5500	8800	16000
			350			112	515	1450	2270	5120	8500	12200
			400			112	515	1450	2270	5120	9800	16000
			500			112	515	1450	2270	5120	9800	16000
			512	18	55			850	1700	3200	5000	7500
			700			112	515					
			1000			112	400	730	1050	1820	3500	5000
		L4	Above 4 Stages Please Contact Us									
Backlash (arcmin)			L1	≤8	≤8	≤8	≤8	≤10	≤12	≤12	≤15	≤18
			L2	≤10	≤10	≤10	≤10	≤12	≤14	≤15	≤18	≤20
			L3	≤12	≤12	≤12	≤12	≤15	≤18	≤20	≤22	≤24
Max.Radial Force			N	265	450	1240	3700	6500	10500	15000	17000	26500
Max.Axial Force			N	200	420	1000	3500	5000	10000	12000	15000	20000
Emergency Stop Torque			NM	2 Times Rated Torque								
Effiency (η)			L1	96%								
			L2	94%								
			L3	90%								
Rated Input Speed(rpm)				3000	3000	3000	2000	1500	1500	1500	1500	1500
Max.Input Speed(rpm)				7000	6000	5000	3500	3000	2500	2000	2000	2000
GWT (kg)			L1	1.3	3.6	9.25	20	31	70	113	145	250
			L2	1.5	4.2	11.5	25	42	88	136	190	340
			L3	1.8	4.8	13.5	30	50	96	140	215	360
Service Life			h	20000 Hrs								
Noise			dB	≤68	≤68	≤68	≤70	≤70	≤70	≤75	≤80	≤80
Lubrication				Whole-life Free Service(Synthetic Complex Soap Grease)								
Operating Temperature				-10°C--+90°C (Beyond Temperature Please Contact Us)								
Mounting				Any Position								
Protect Class				IP65								
1. About L1 specifications major are measured on 5 : 1 gear ratio. 2. Ratios; (I = N _{in} /Out) 3. Backlash : Measured on 2% of nominal output torque. 4. Max. Radial and Axial Load; Applied to the output shaft center, and 50% of duty time,and at 100rpm. 5. Duty Cycle < 60%, Average Lifetime = List value; Duty Cycle >= 60%, Average Lifetime < 50% List value. 6. Noise Level: Distance 1m. and measured on idle running. and at nominal input speed.												

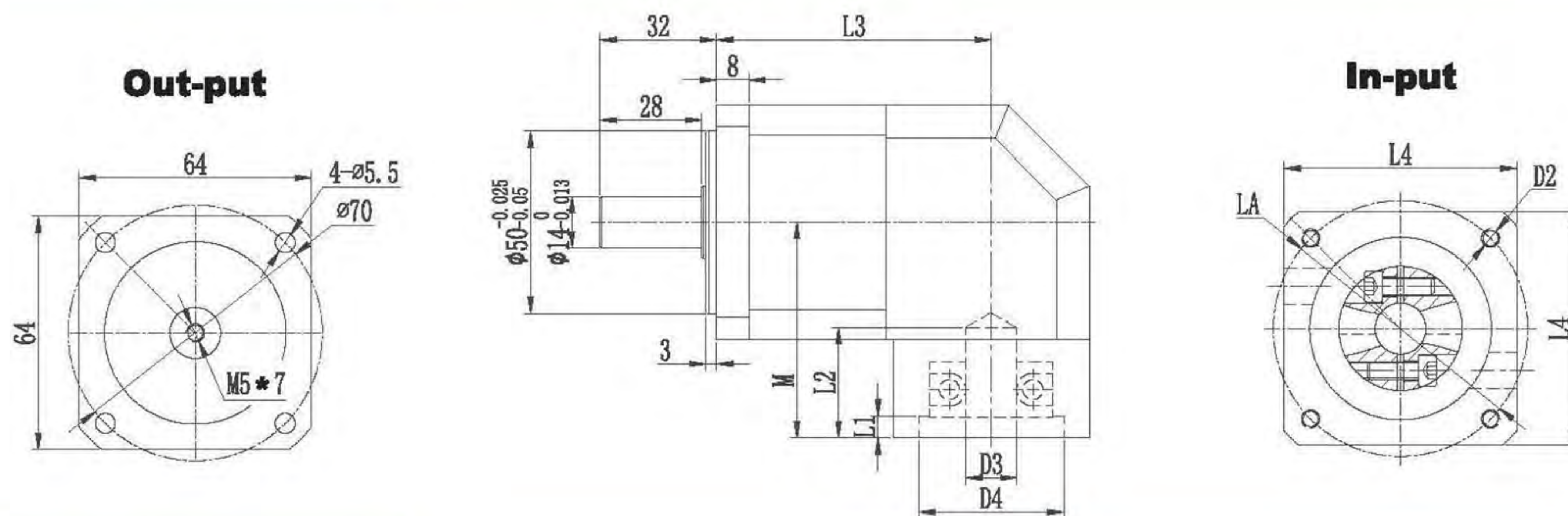
ZBR 60 Drawing Diemensions



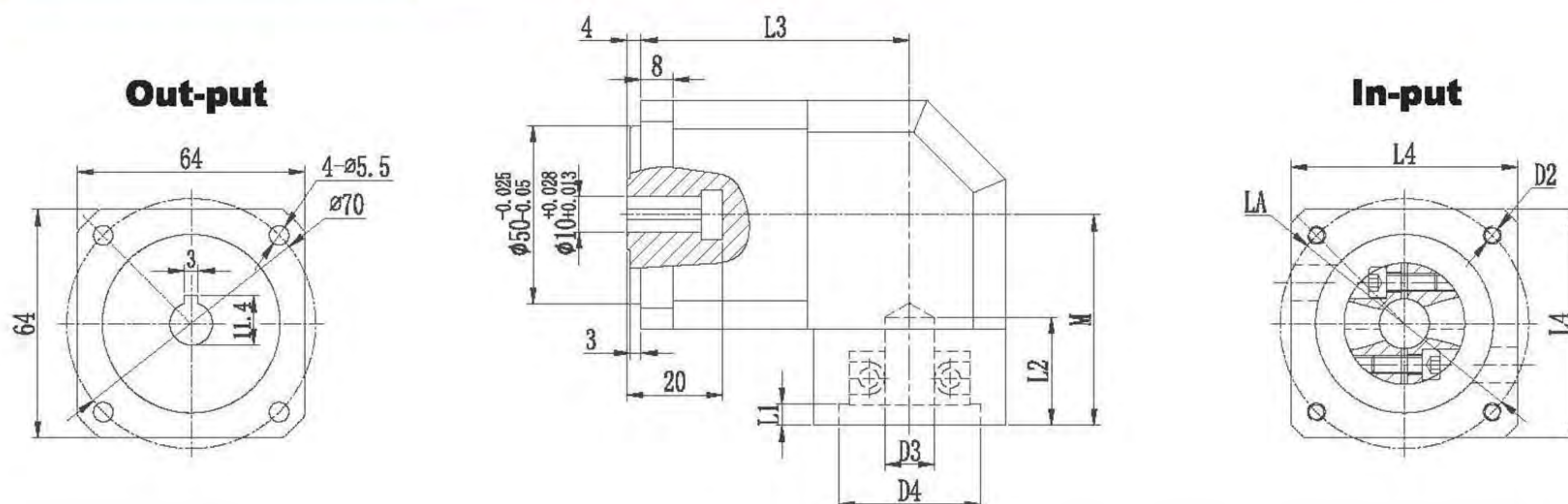
S2 (Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



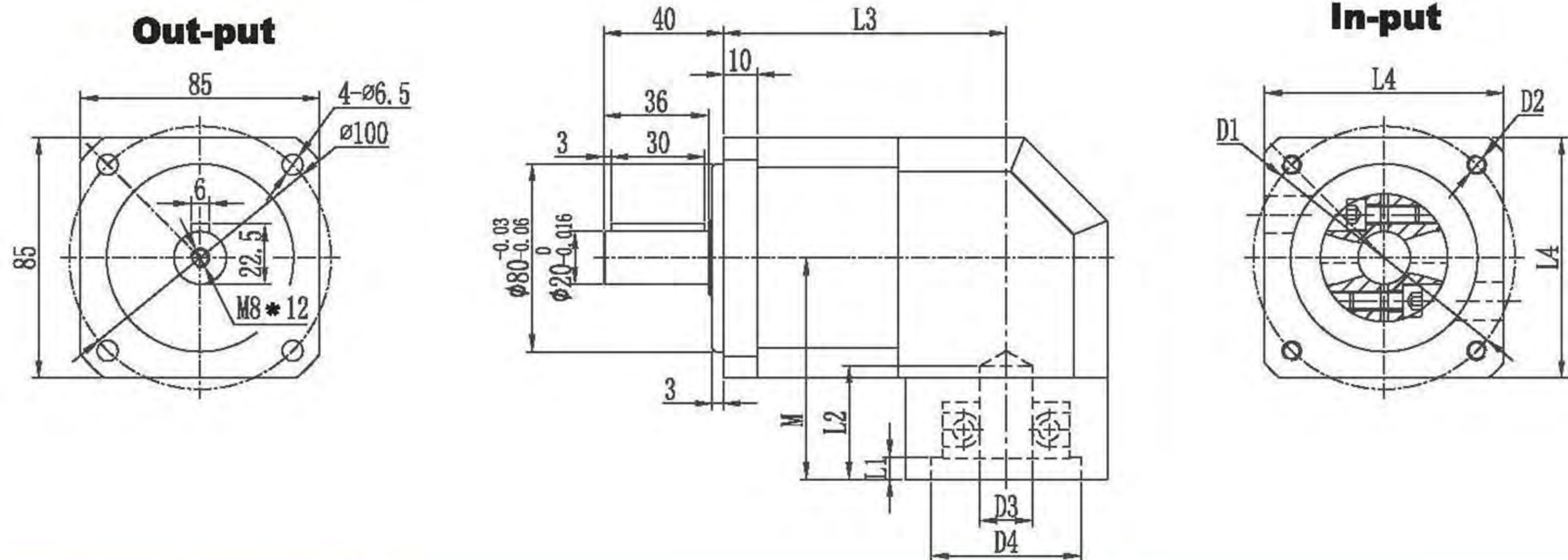
Motor	D1	D2	D3	L2	D4	L1	L4	M	L1 (Stage 1)	L2 (Stage 2)	L3 (Stage 3)
0.2KW	70	4-M4/M5	$\phi 11$ (F7)	35	$\phi 50$ (H7)	5	64	72	96	114	131
0.4KW	70	4-M4/M5	$\phi 14$ (F7)	35	$\phi 50$ (H7)	5	64	72	96	114	131

Note: Above mentioned size based on standard product, we are accept any others change.

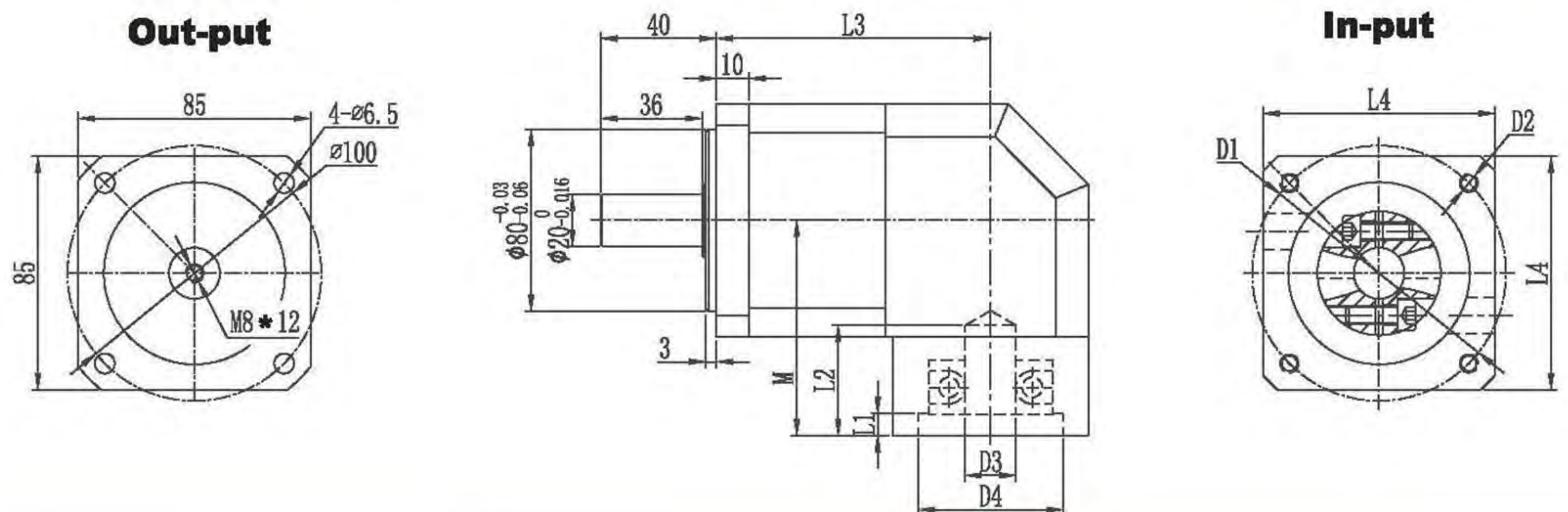
ZBR 90 Drawing Diemensions



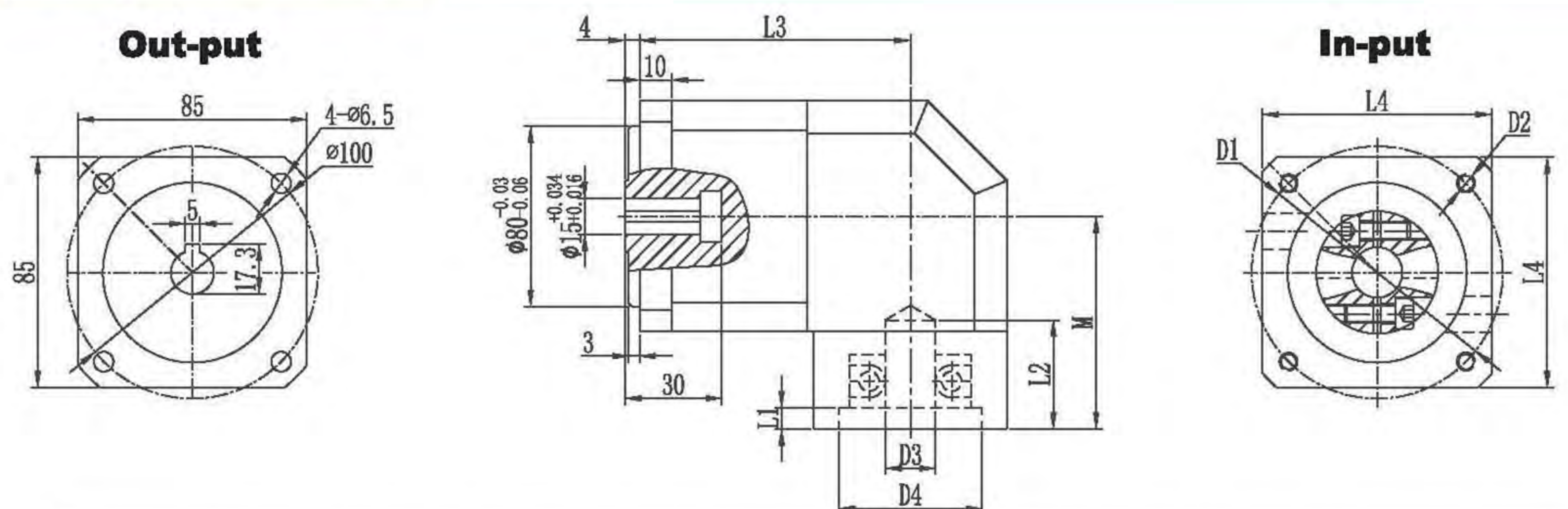
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



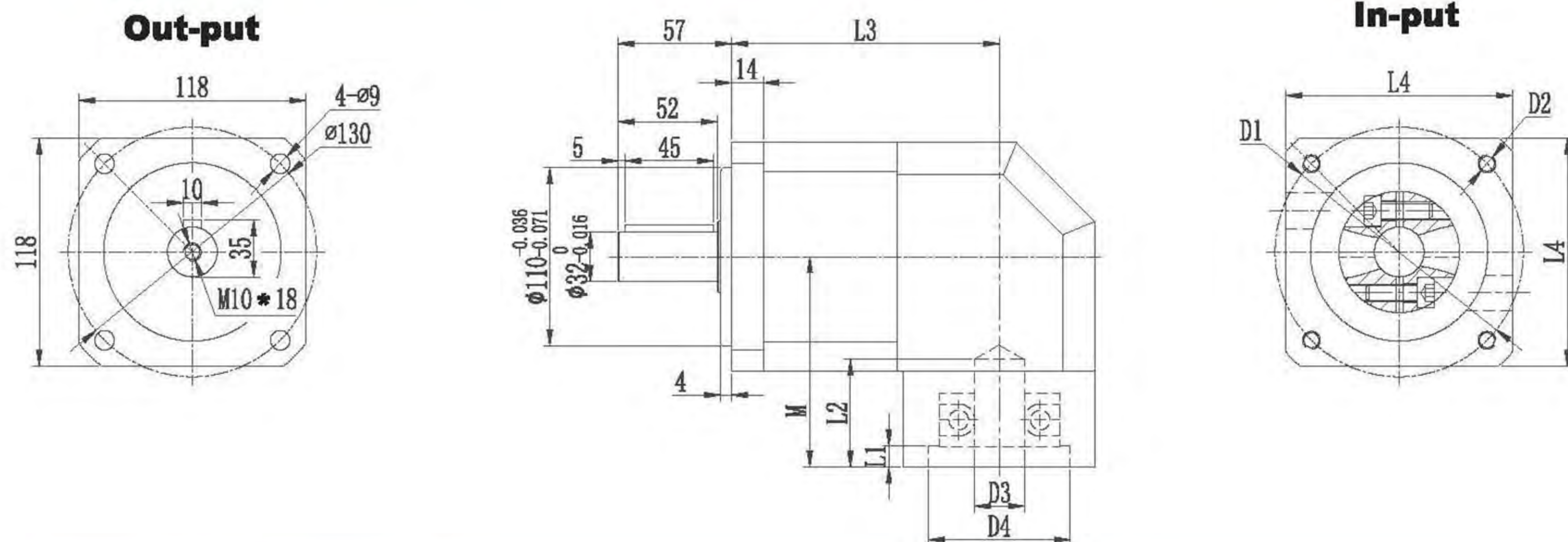
Motor	D1	D2	D3	L2	D4	L1	L4	M	L1 (Stage 1)	L2 (Stage 2)	L3 (Stage 3)
0.4KW	70	4-M4/M5	$\phi 14$ (F7)	35	50 (H7)	5	90	143	119	137	155
0.75KW	90	4-M5/M6	$\phi 19$ (F7)	35	70 (H7)	5	90	143	119	137	155

Note: Above mentioned size based on standard product, we are accept any others change.

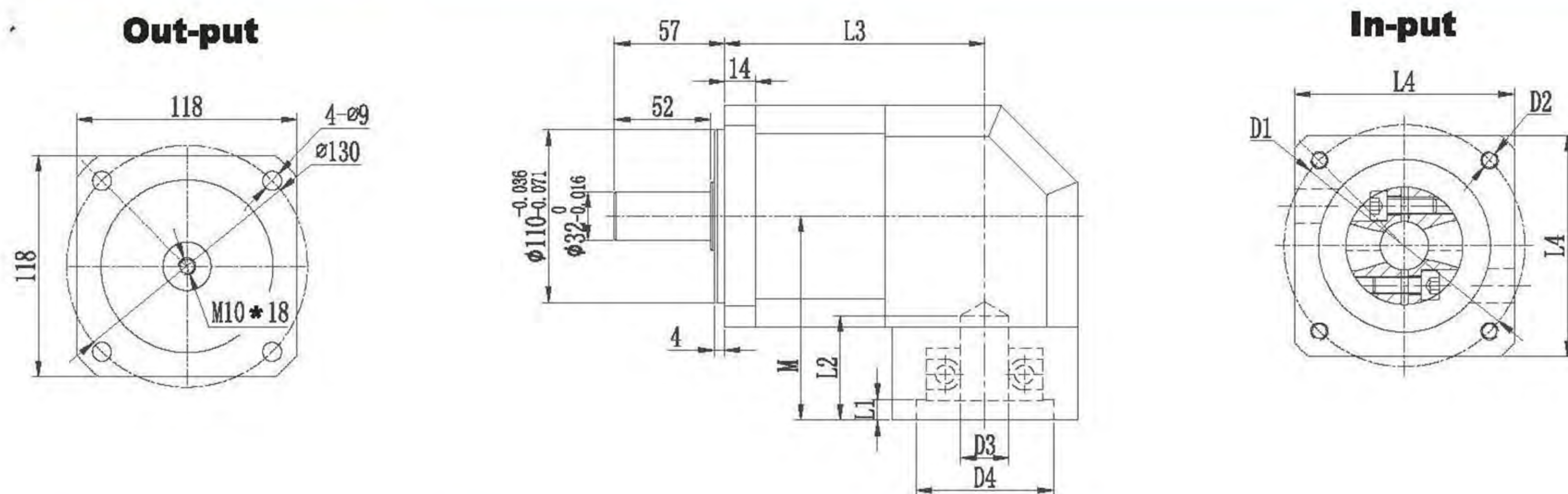
ZBR 115 Drawing Diemensions



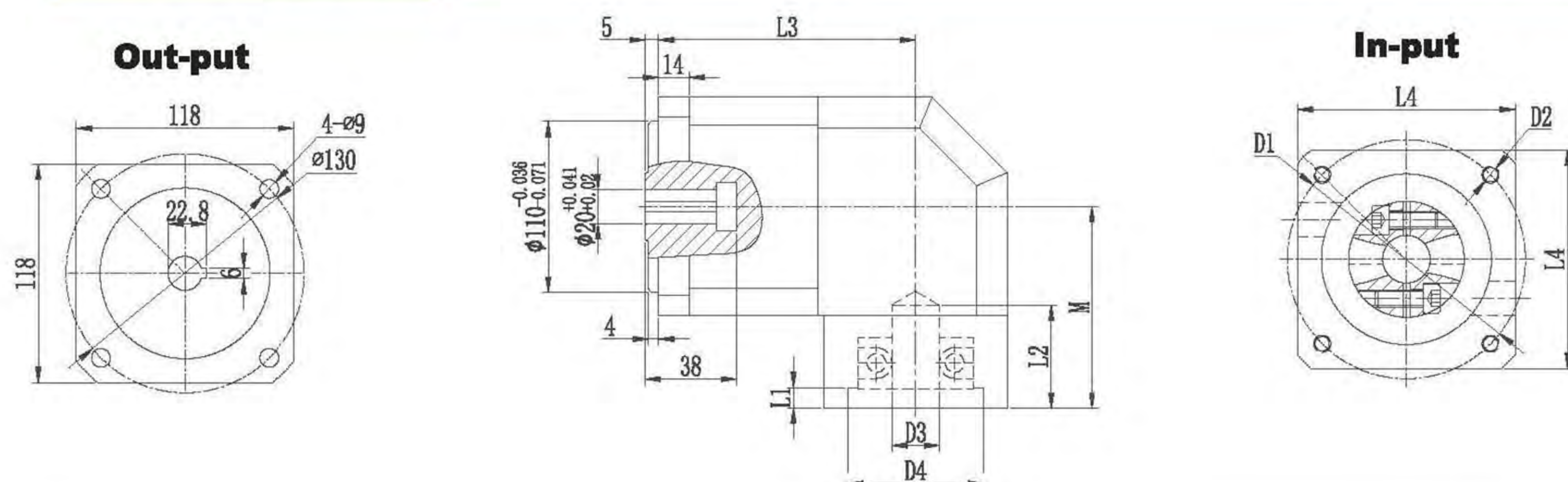
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



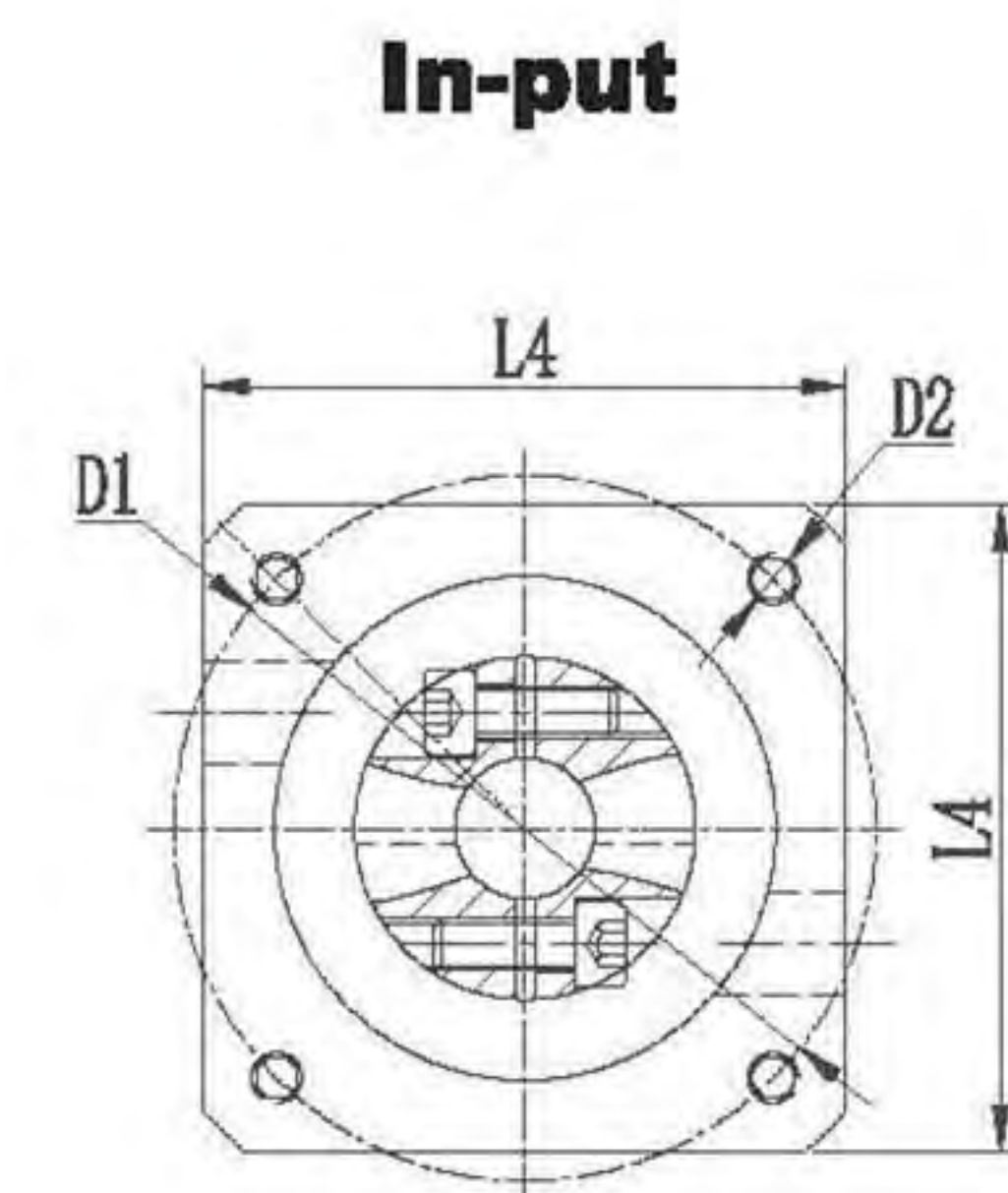
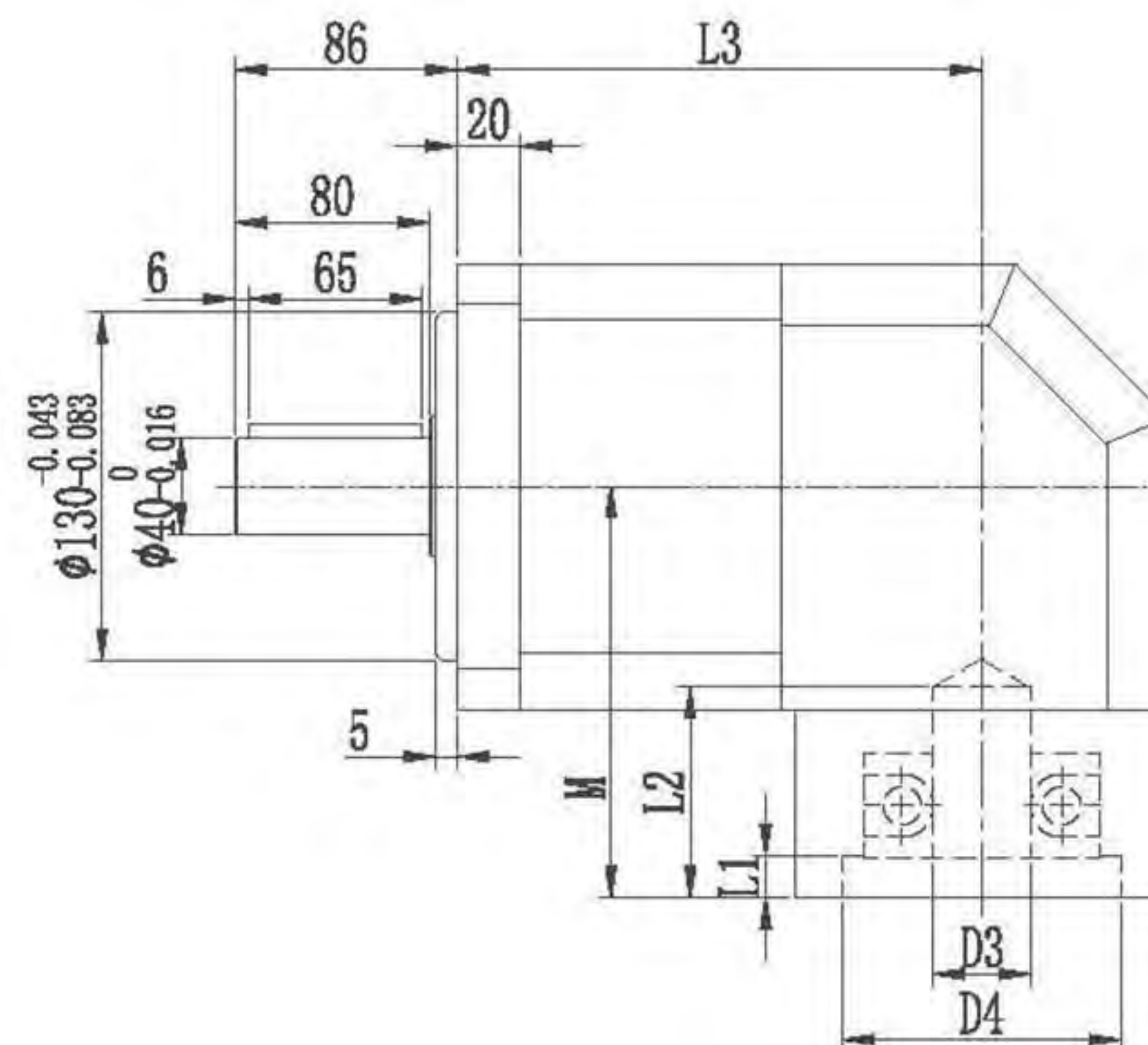
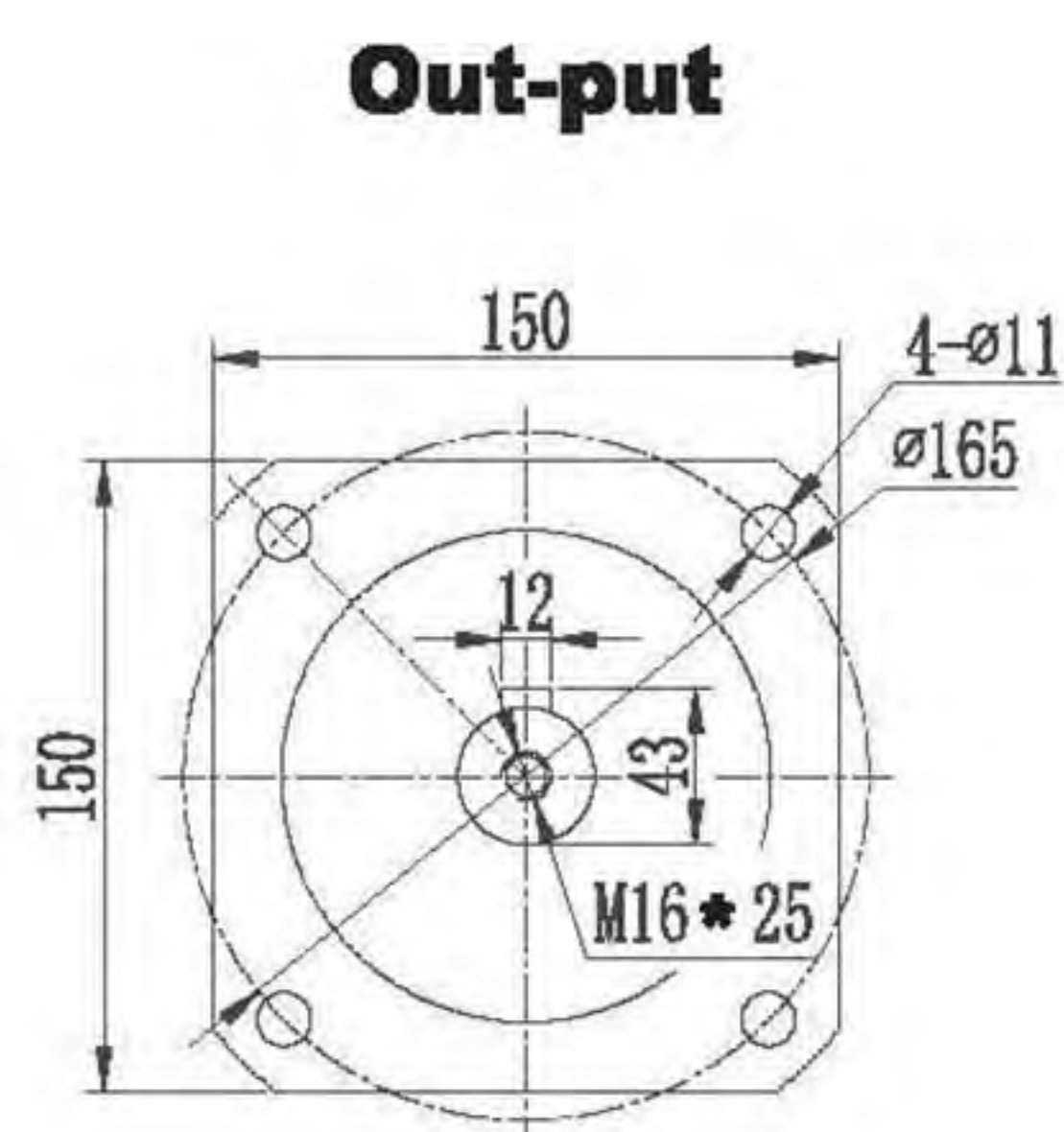
Motor	D1	D2	D3	L2	D4	L1	L4	M	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
0.75KW	90	4-M6	ø19(F7)	54	ø70(H7)	10	130	114	151	183	215
1KW/1.5KW	145/130	4-M8	ø22/24(F7)	64	ø110(H7)	10	130	124	151	183	215

Note:Above mentioned size based on standard product,
we are accept any others change.

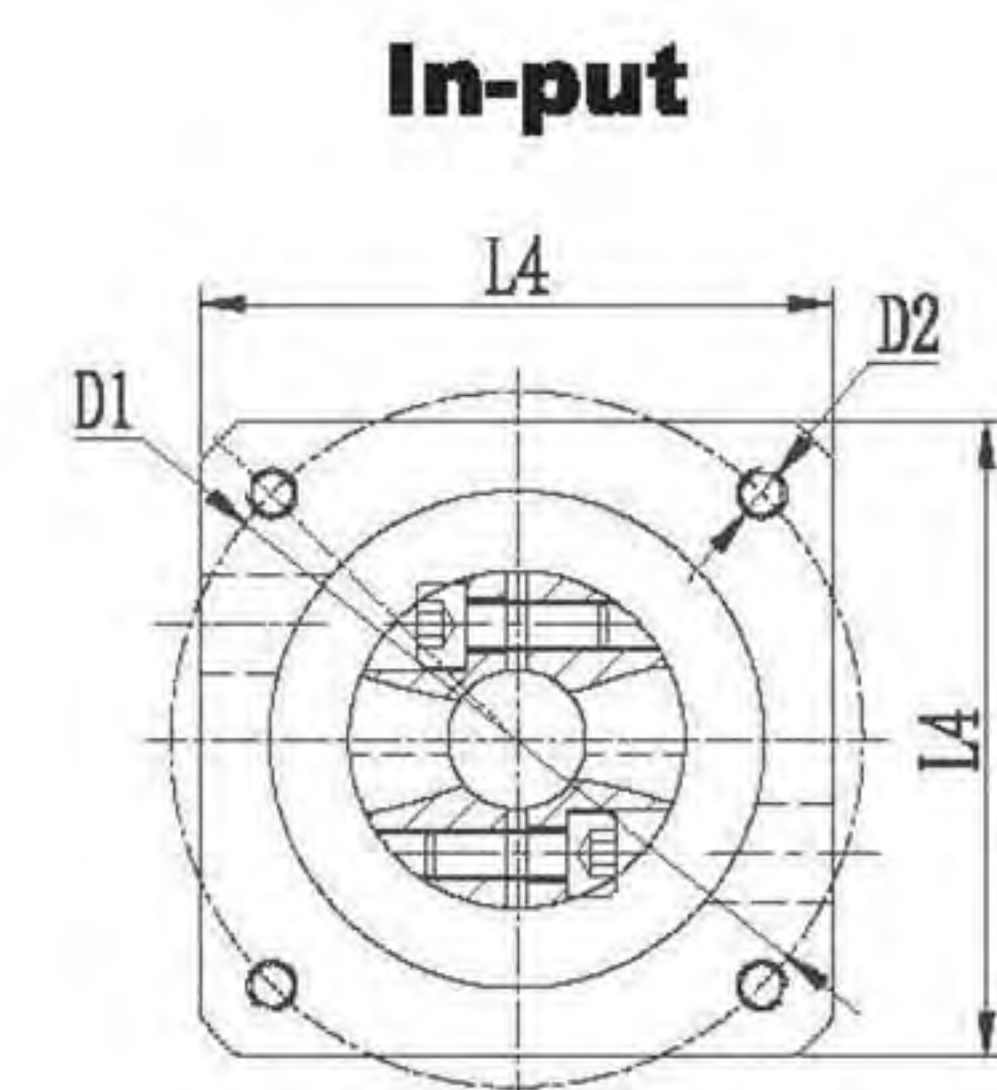
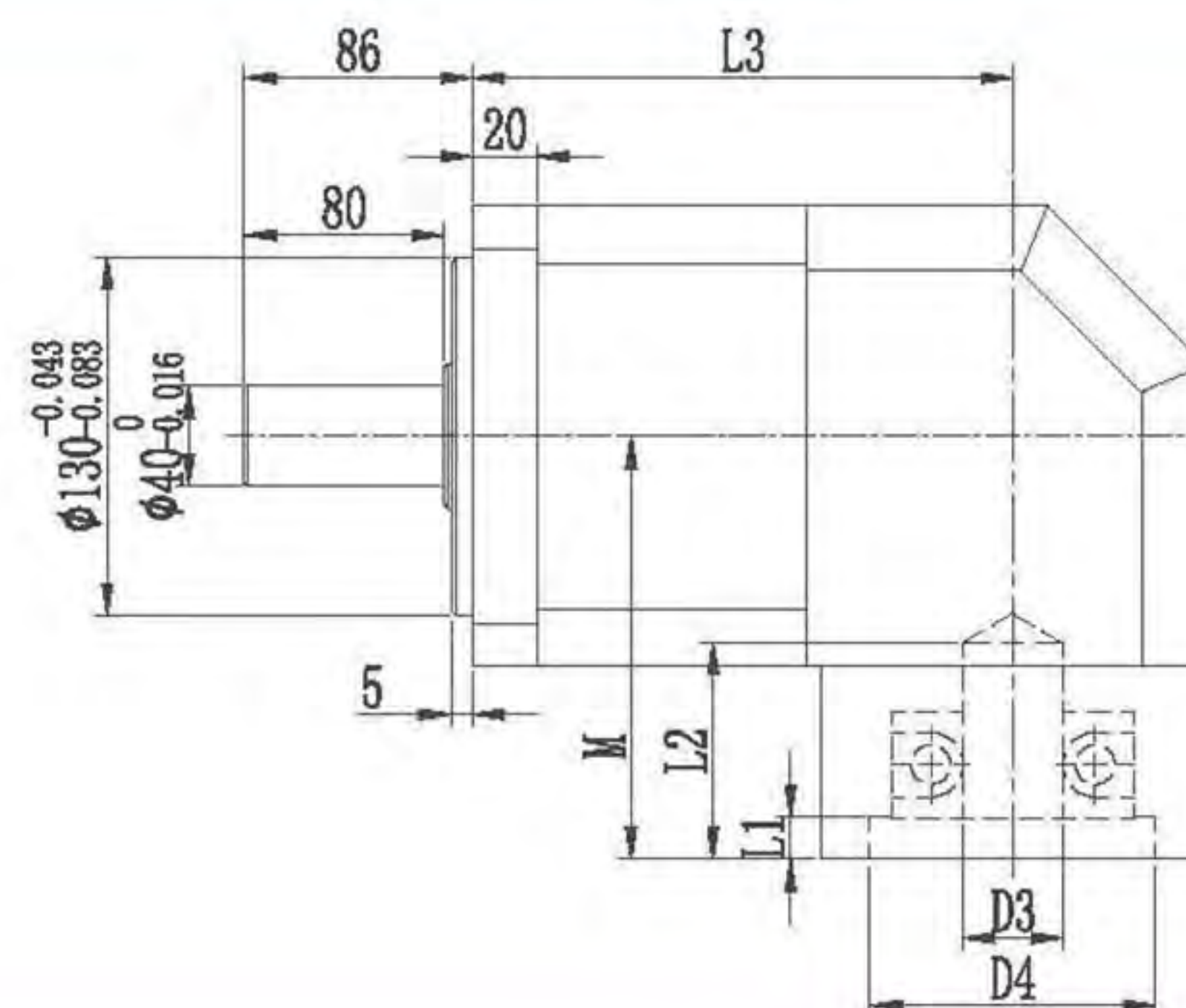
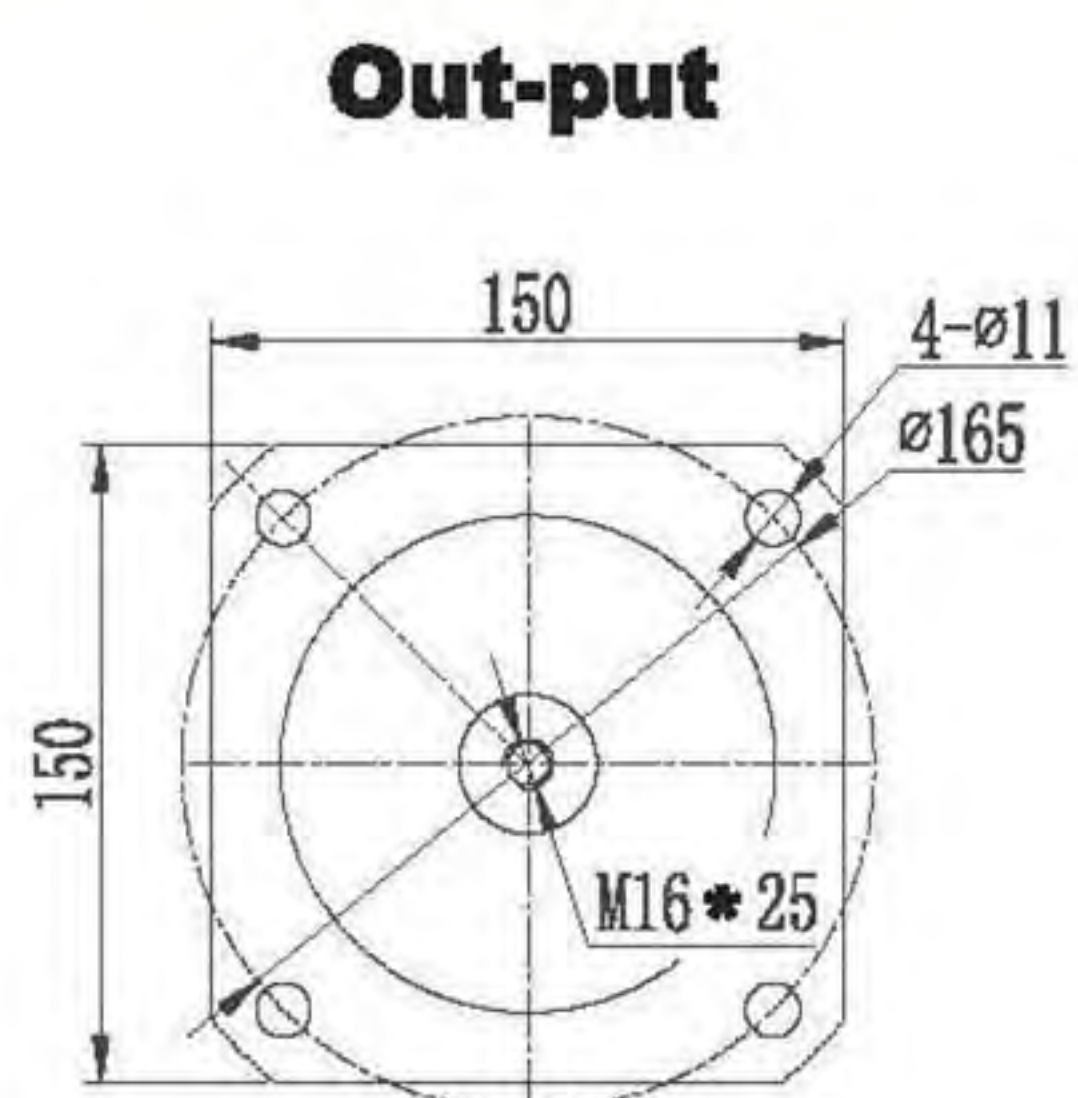
ZBR 142 Drawing Diemensions



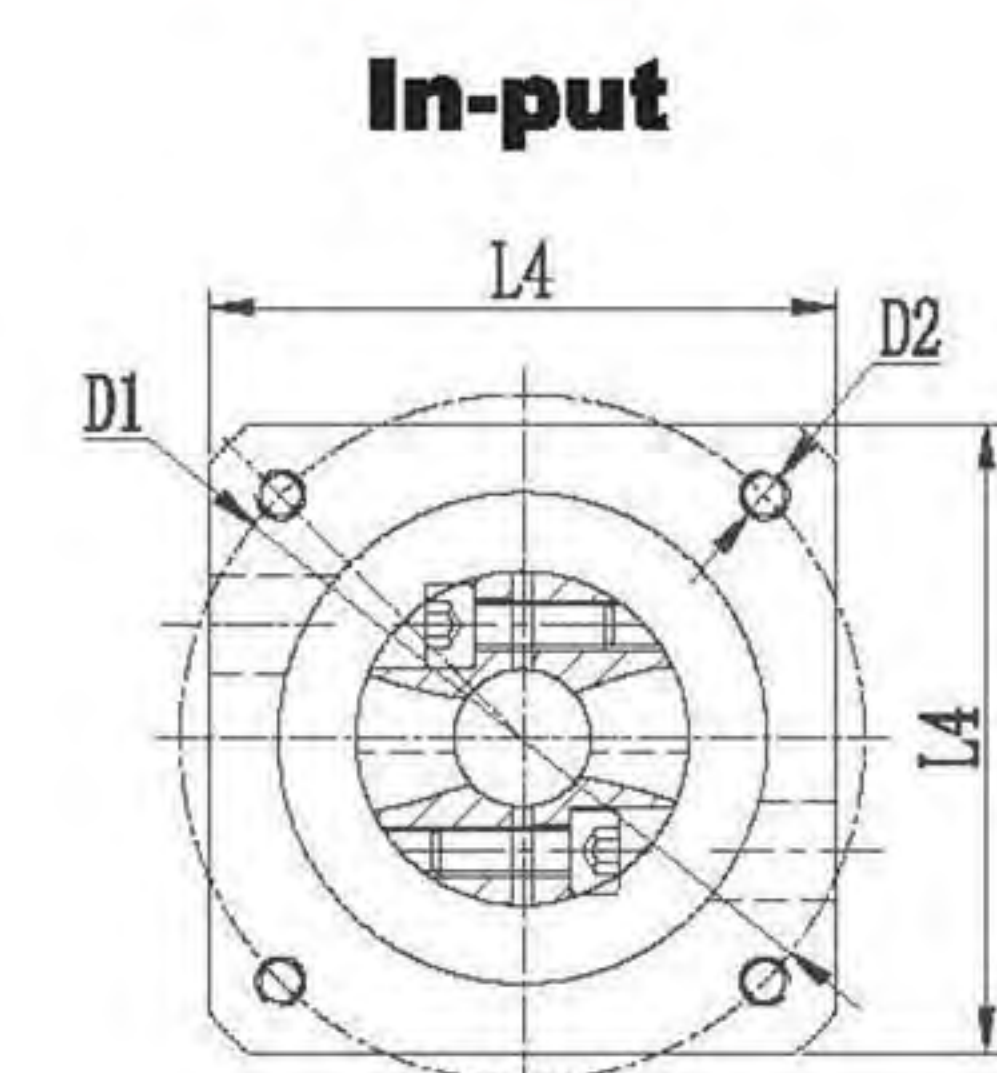
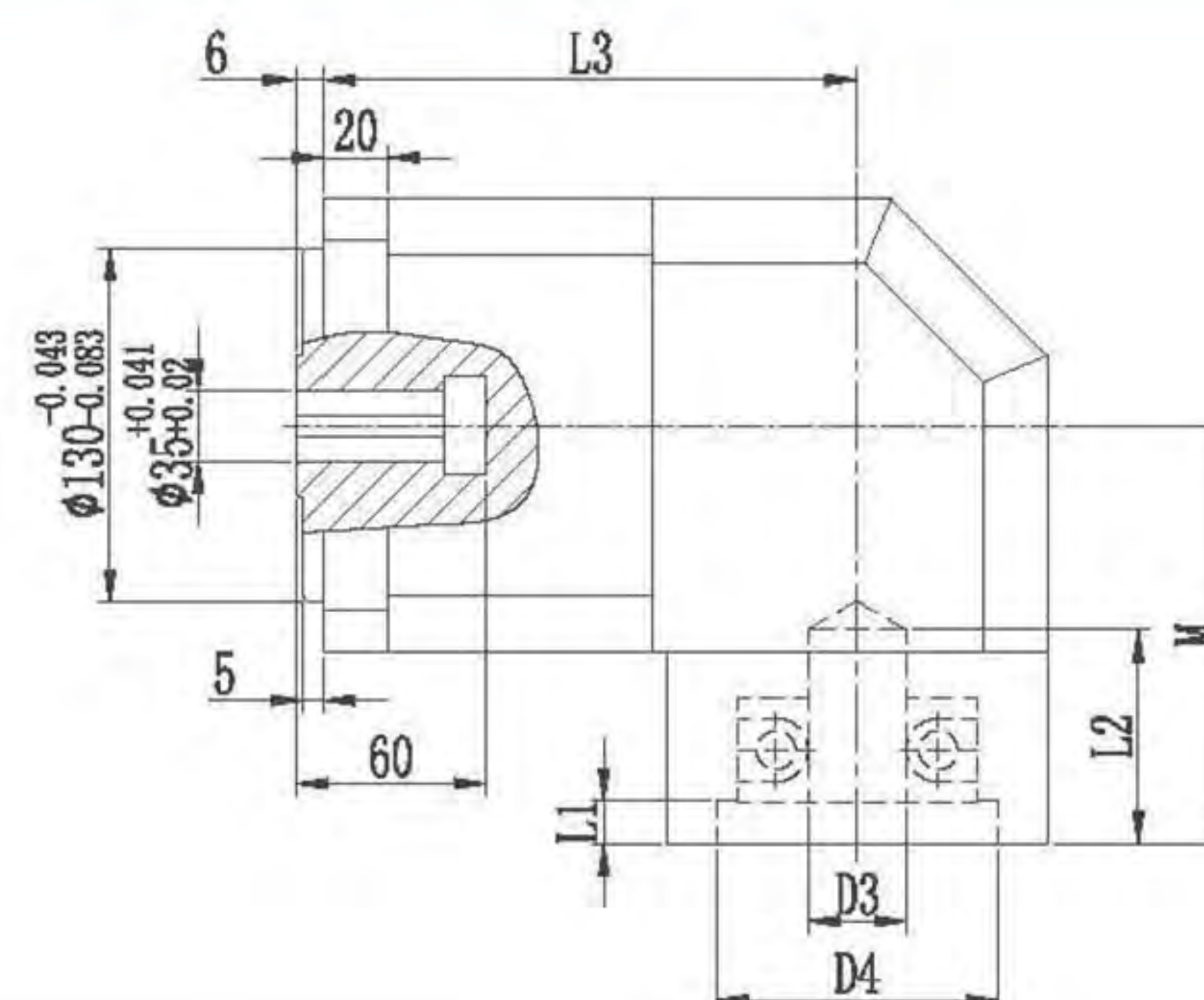
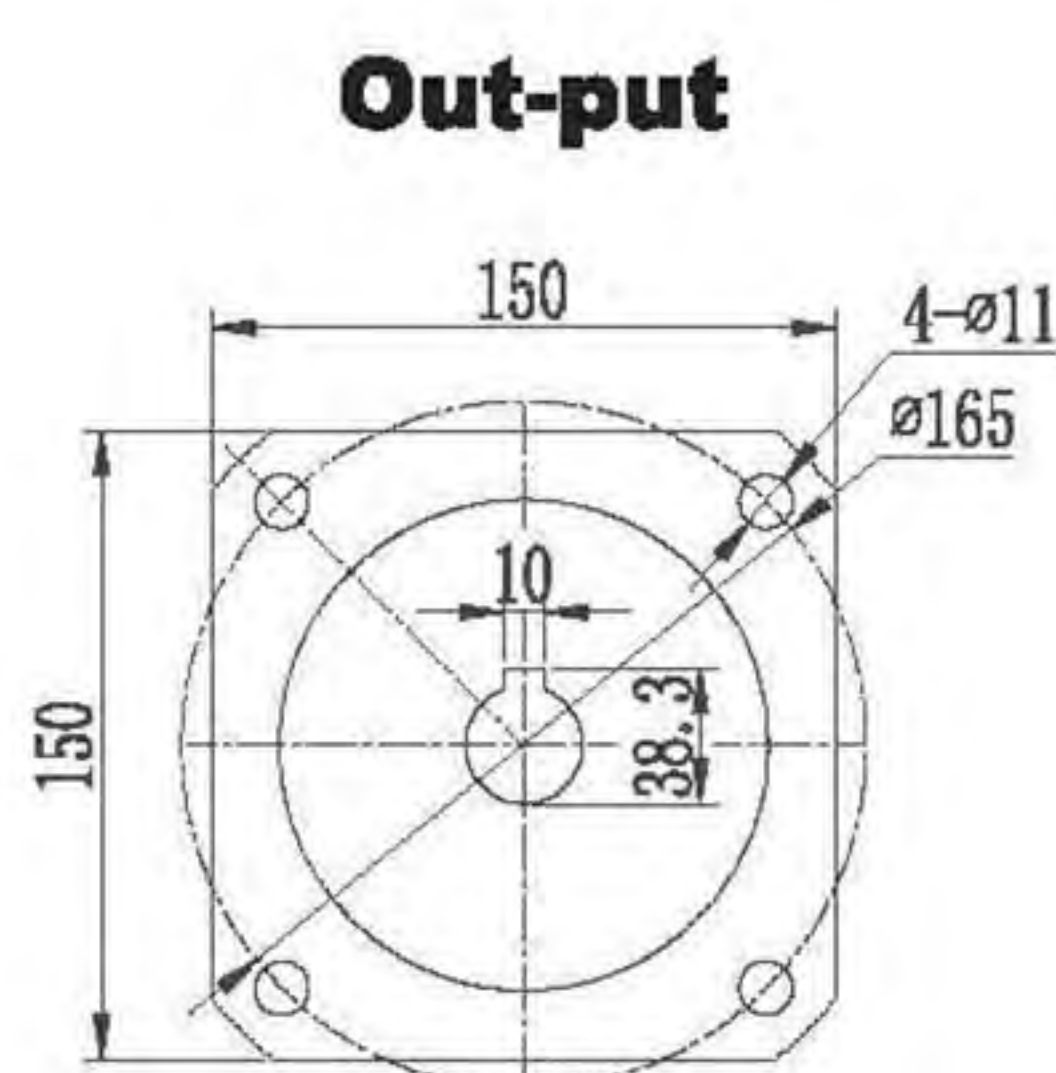
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



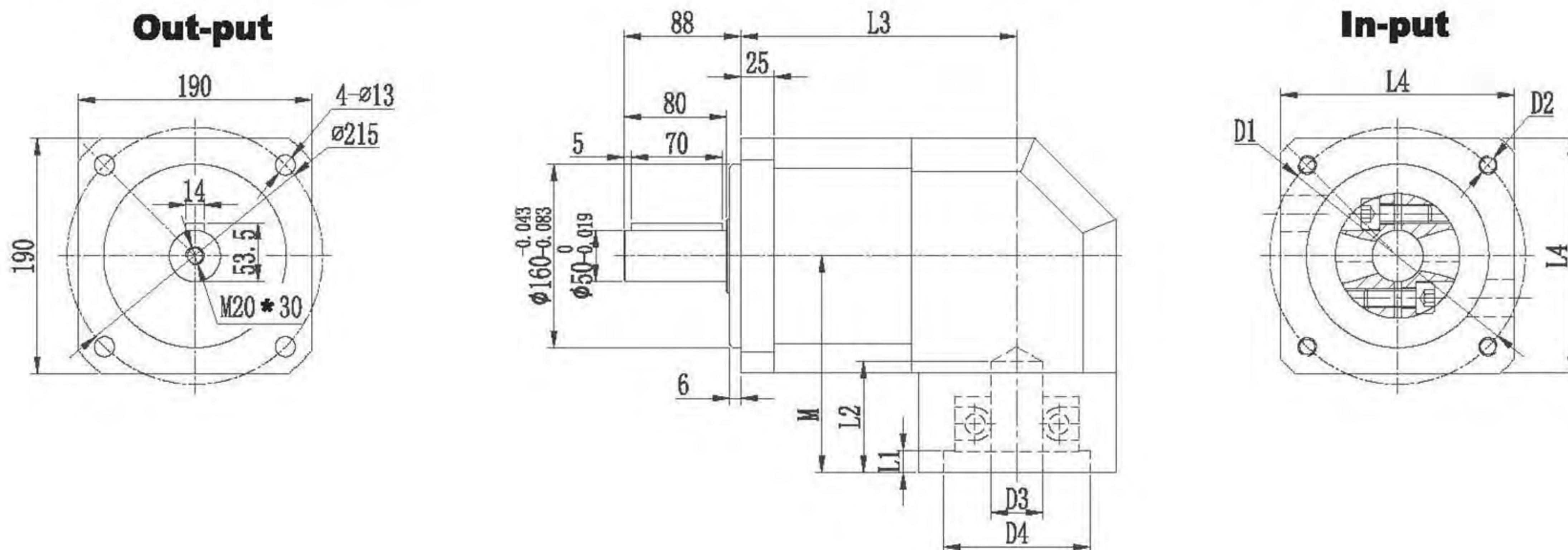
Motor	D1	D2	D3	L2	D4	L1	L4	M	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
2.0KW	145	4-M8	φ22(F7)	62	110(H7)	10	150	150	198	245	292
3.0/4KW	200	4-M12	φ35(F7)	82	114.3(H7)	10	180	160	198	245	292

Note:Above mentioned size based on standard product,
we are accept any others change.

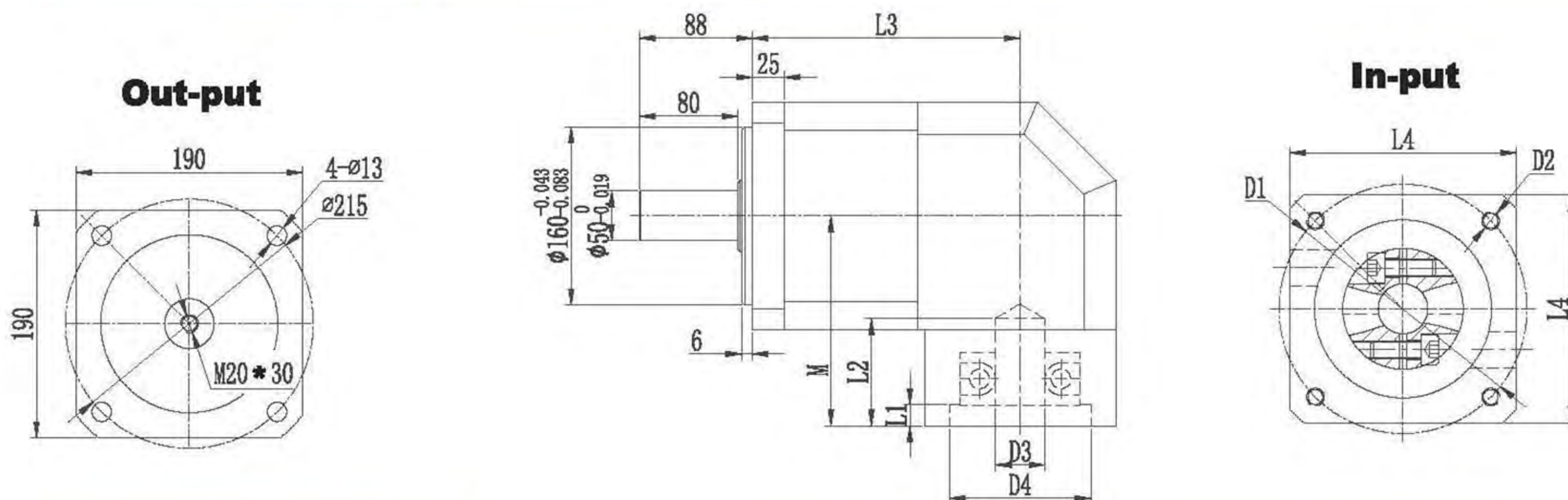


ZBR 190 Drawing Diemensions

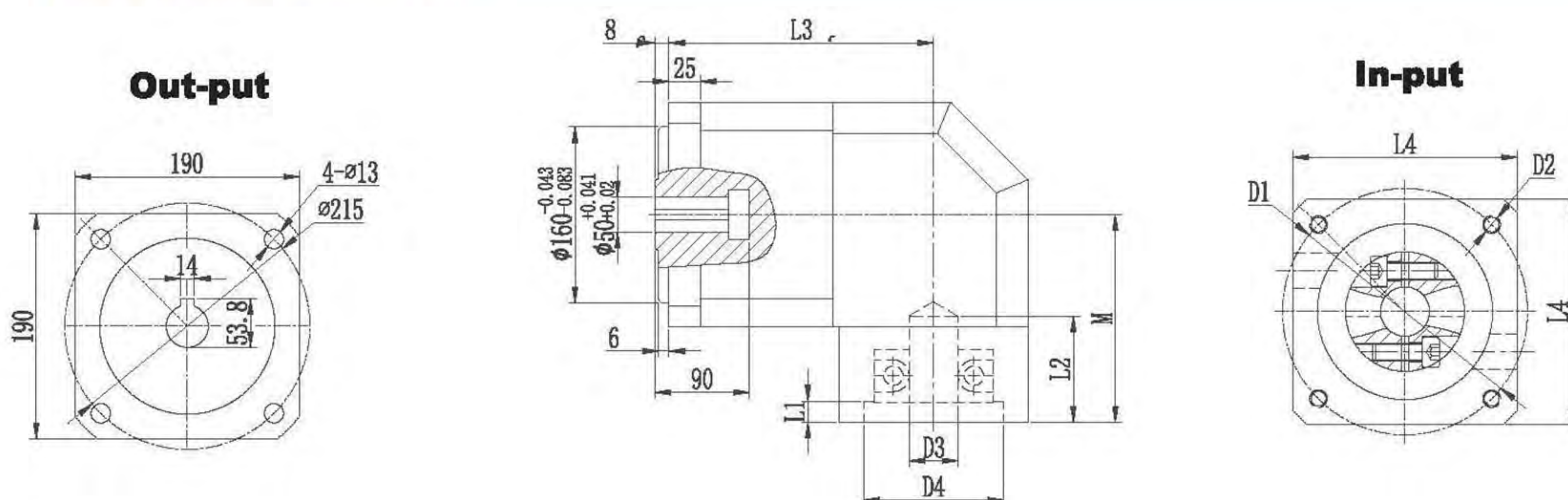
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



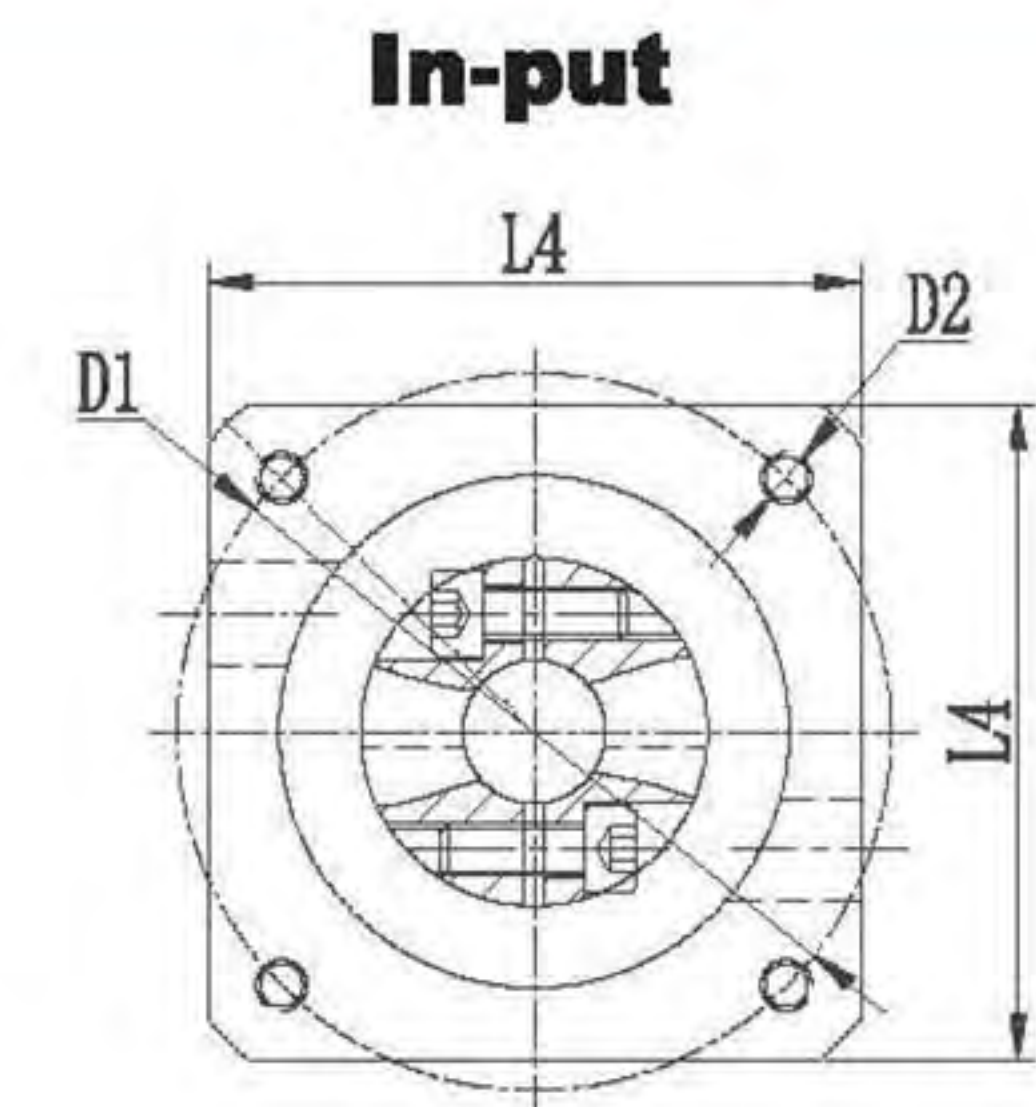
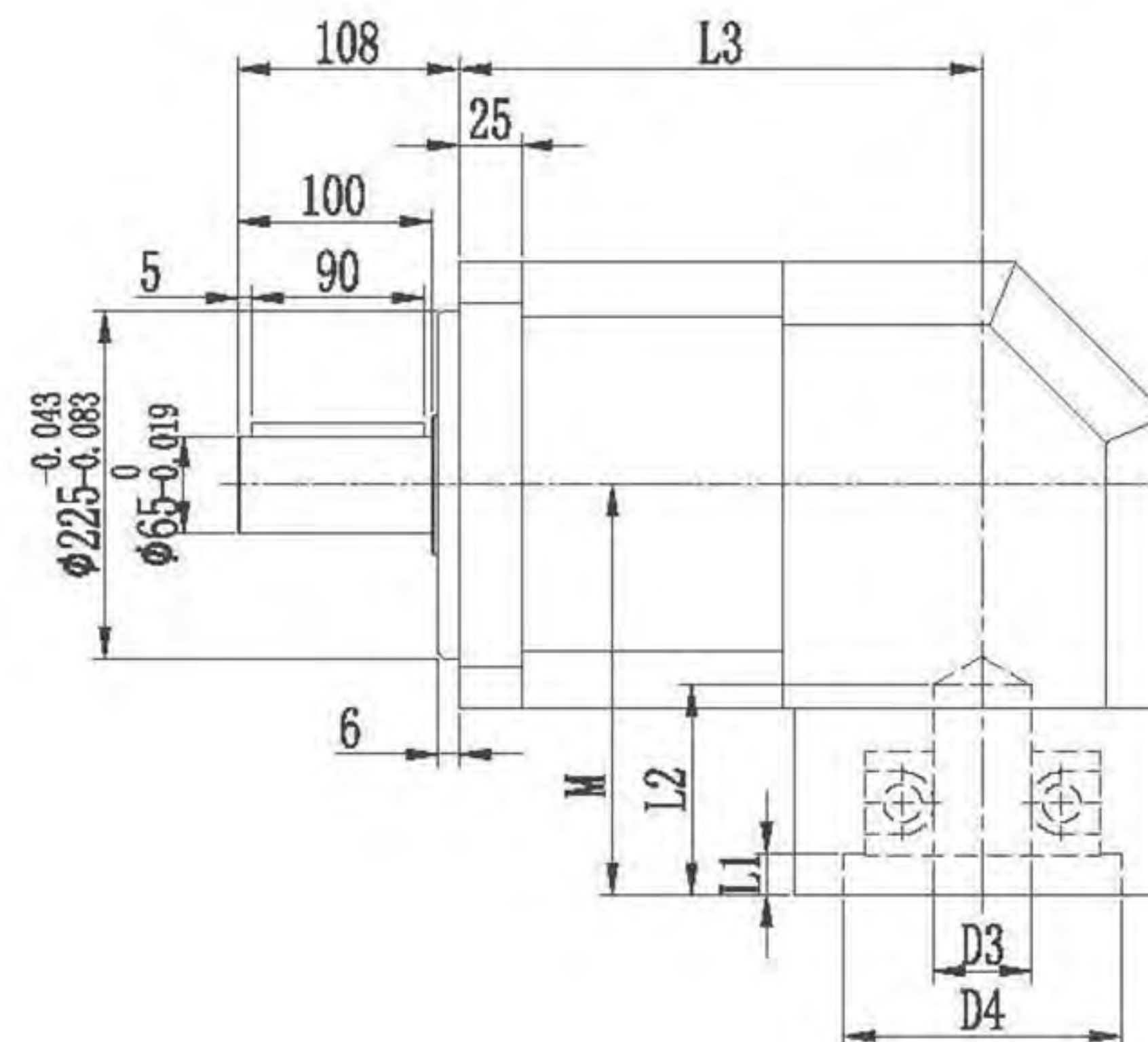
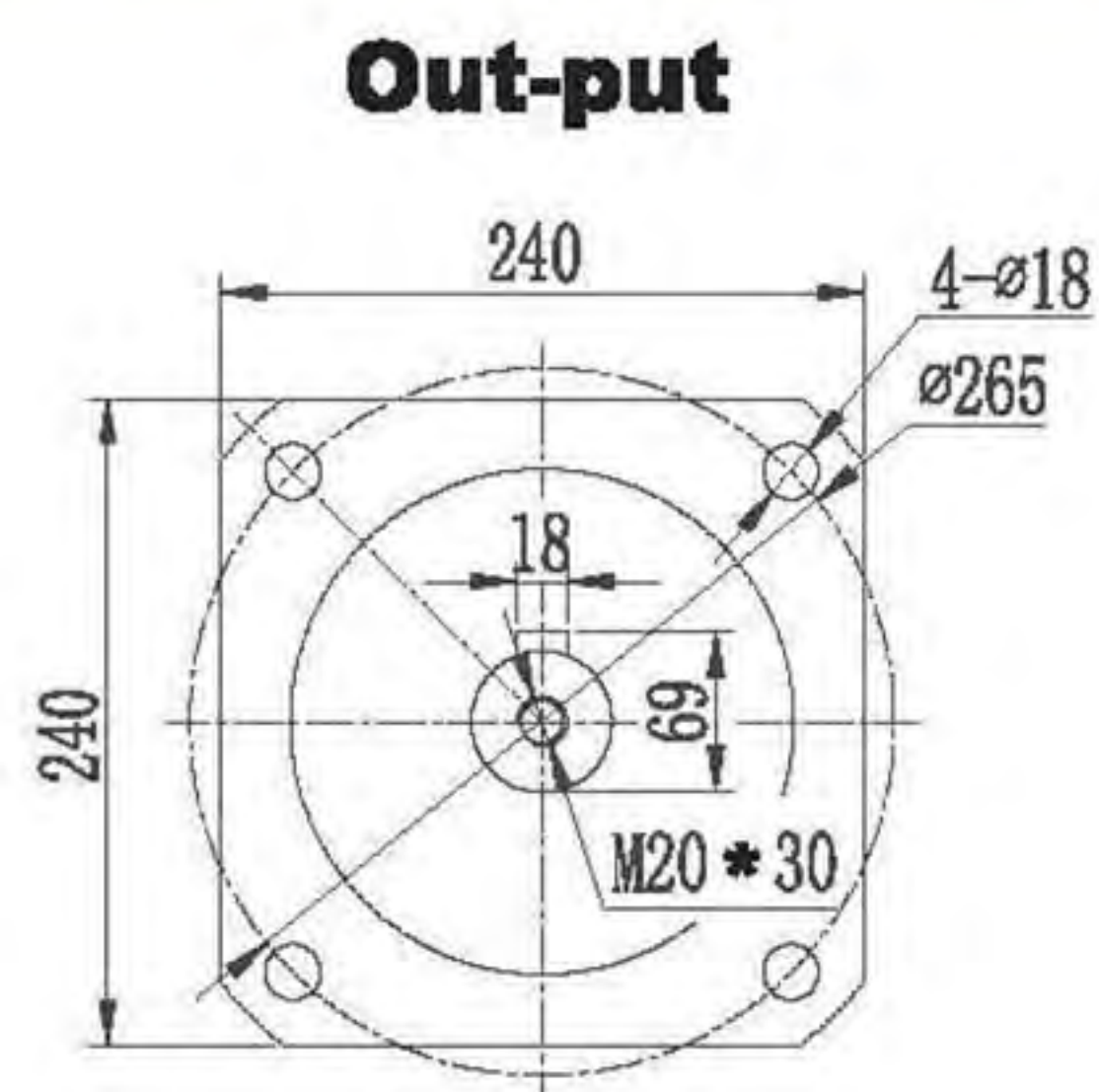
Motor	D1	D2	D3	L2	D4	L1	L4	M	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
3.0KW	200	4-M12	ϕ 35 (F7)	82	114.3 (H7)	10	190	134	206	235	280
4.0/5.0KW	215	4-M12	ϕ 42 (F7)	115	180 (H7)	10	190	164	206	235	280
7.5KW	235	4-M12	ϕ 55 (F7)	115	200 (H7)	10	220	164	206	235	280

Note: Above mentioned size based on standard product,
we are accept any others change.

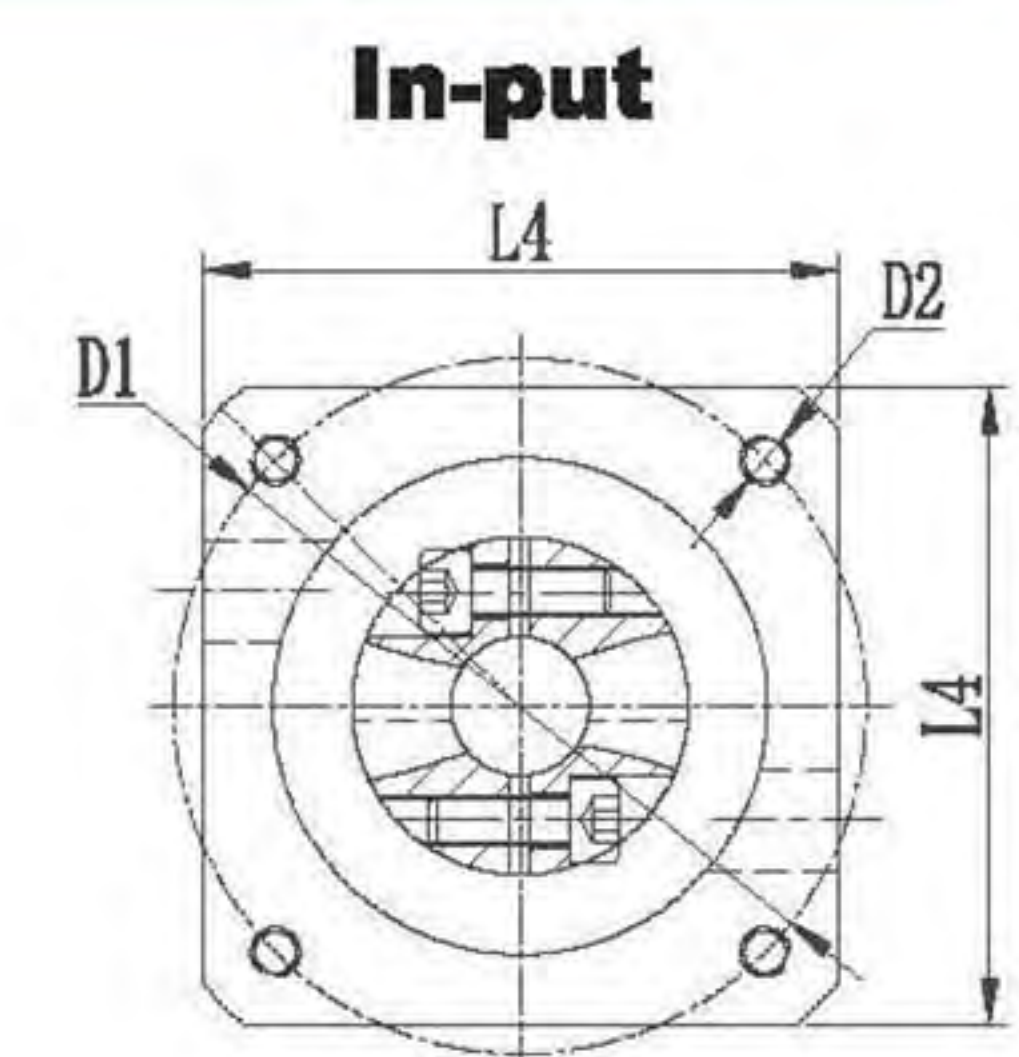
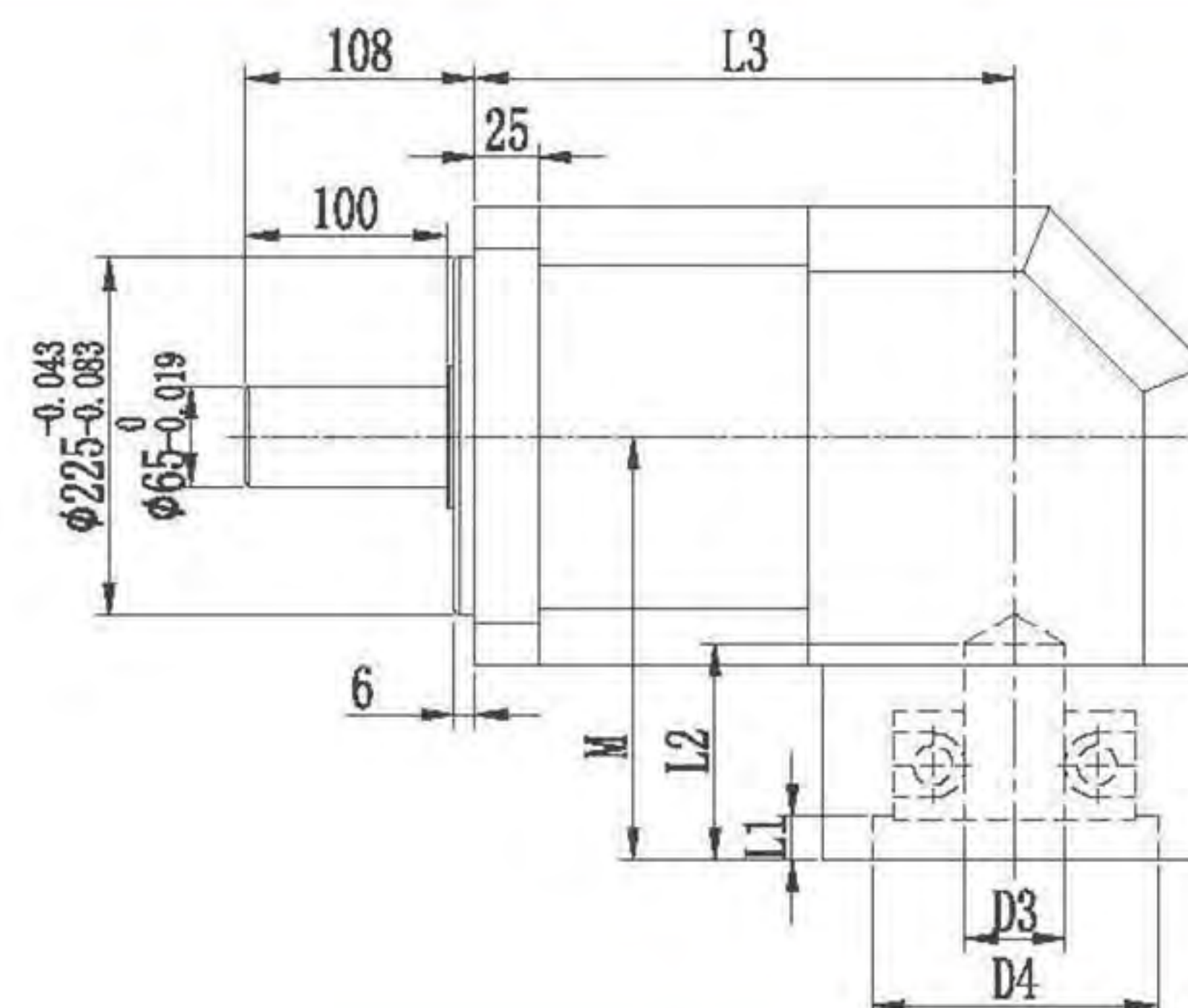
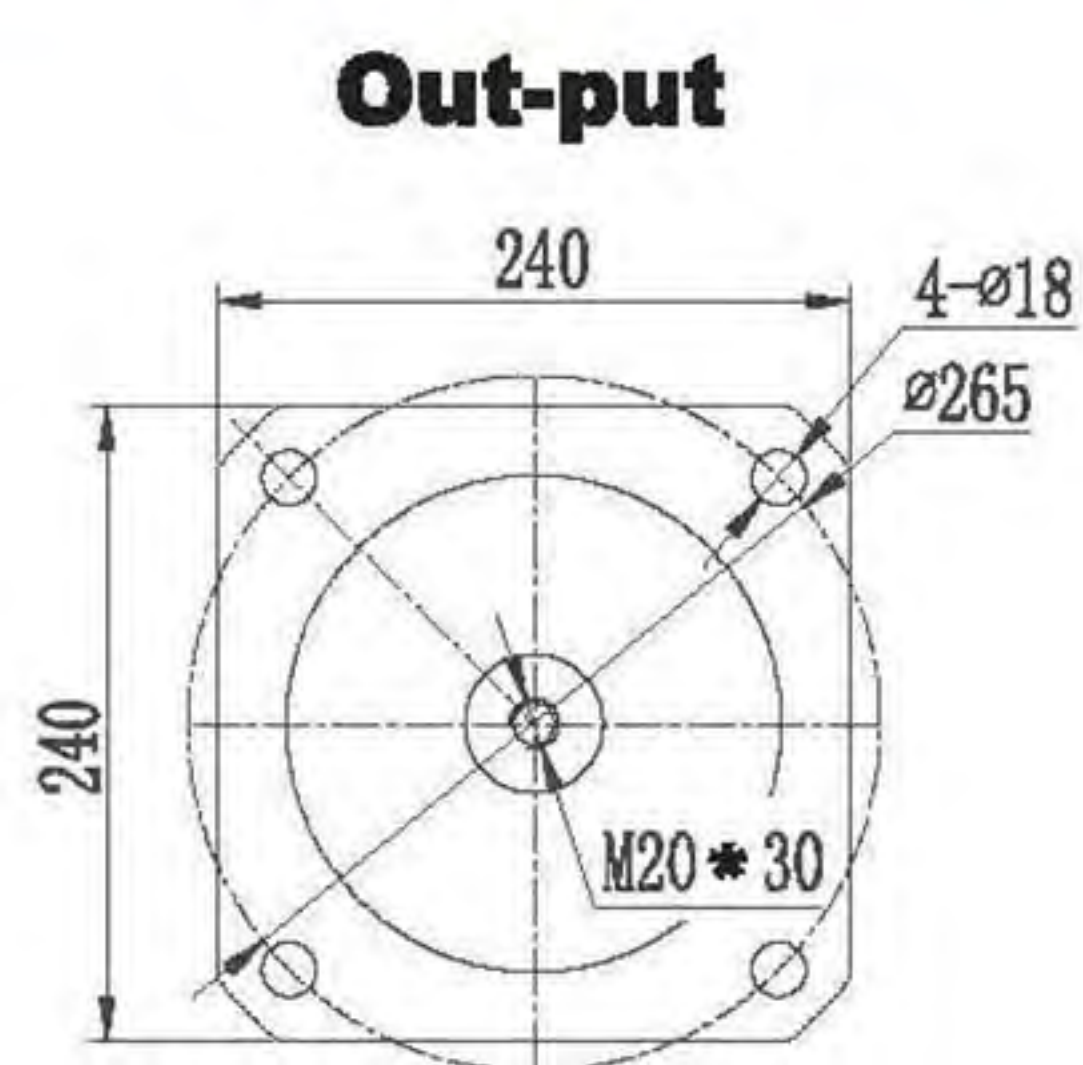
ZBR 240 Drawing Diemensions



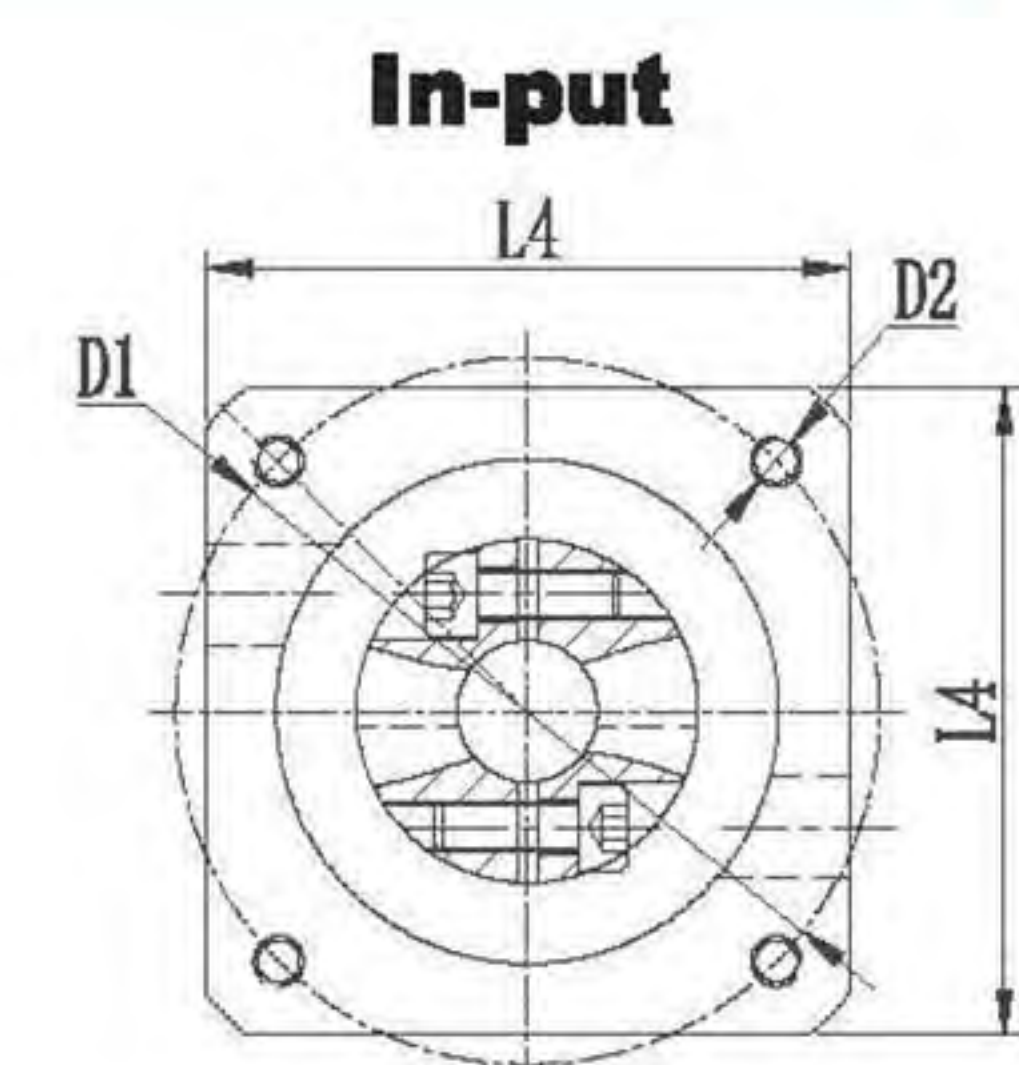
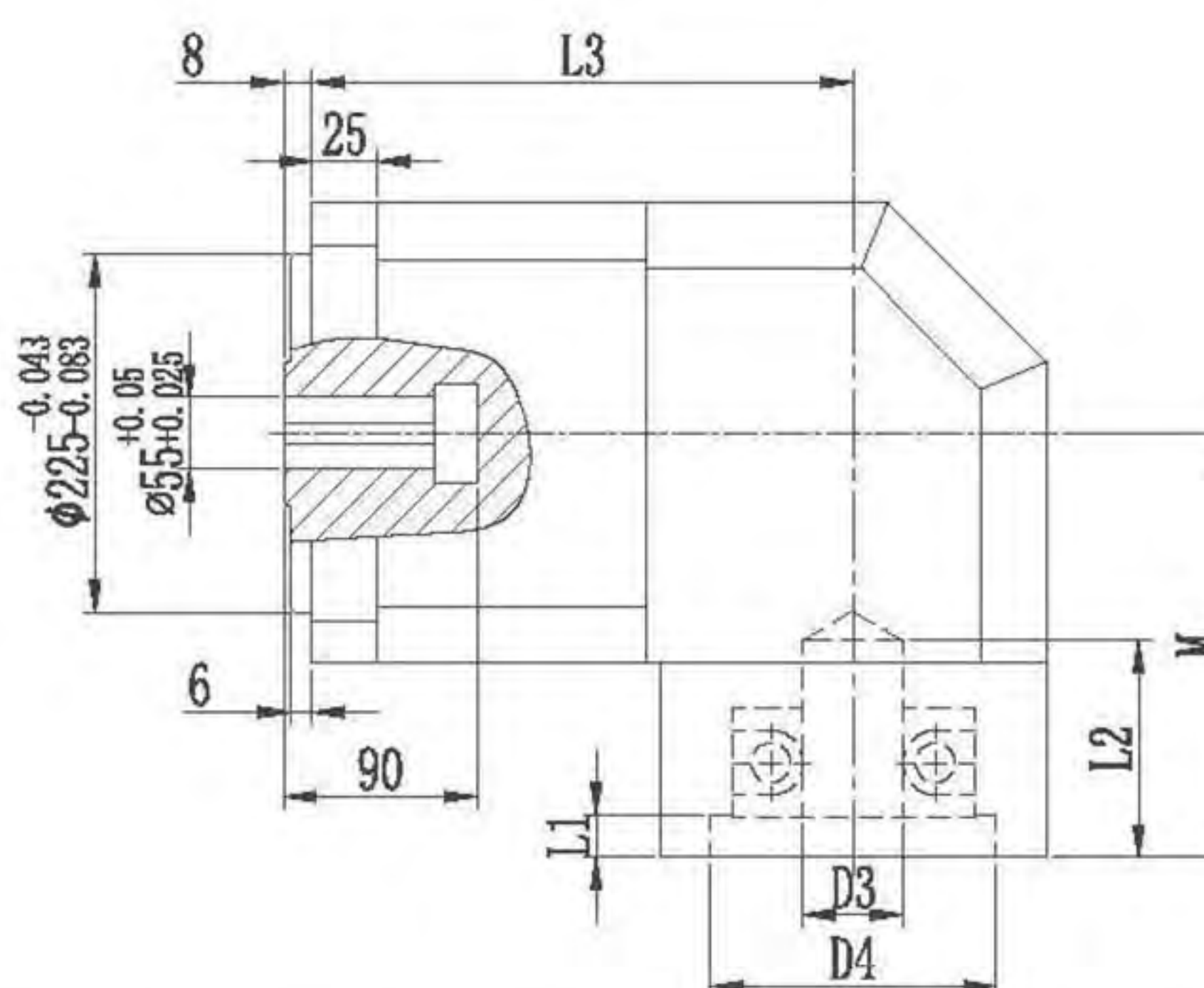
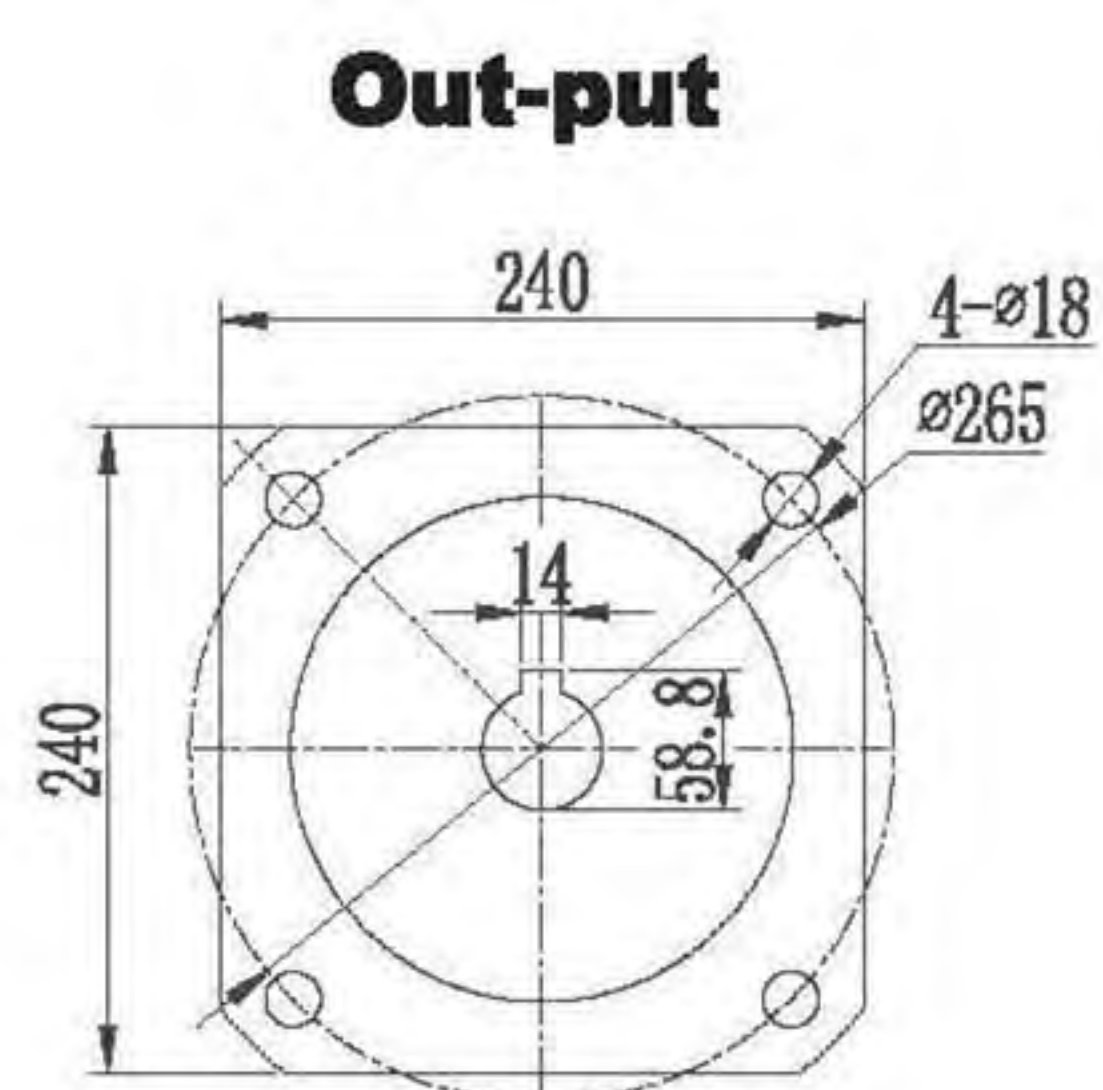
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



Motor	D1	D2	D3	L2	D4	L1	L4	M	L1 (Stage 1)	L2 (Stage 2)	L3 (Stage 3)
3.0KW	200	4-M12	ø35 (F7)	82	114.3 (H7)	10	190	134	258	287	332
4.0/5.0KW	215	4-M12	ø42 (F7)	115	180 (H7)	10	190	164	258	287	332
7.5KW	235	4-M12	ø55 (F7)	115	200 (H7)	10	220	164	258	287	332
11KW	265	4-M12	ø55 (F7)	115	230 (H7)	10	250	164	258	287	332

Note:Above mentioned size based on standard product, we are accept any others change.

ZE SERIES TECHNICAL SPECIFICATIONS							
Specification	Units	Stage	Ratio	ZE60	ZE80	ZE120	ZE160
Rated Output Torque/T2N	NM	L1	3	25	50	140	310
			4	42	120	260	800
			5	40	110	240	680
			7			105	470
			8	18	40		
			10	12	20	100	200
		L2	9	42	50	140	340
			12	40	50	200	680
			15	40	50	200	680
			16	42	110	260	800
			20	42	110	260	800
			25	40	100	240	680
			28			235	800
			30	25	65	235	680
			32	45	125		
			35	40		140	590
			40	42	100	260	680
			50	23		112	340
			64	18	50		
			70			105	470
			100			105	200
		L3	60	45	110	260	800
			64	42	120	260	800
			80	42	110	260	680
			100	42	110	260	800
			120	40	110	260	800
			125	23	110	230	700
			140	25		260	800
			150	23	110	260	800
			160	45	120	260	800
			200	40	90	230	800
			250	42	110	200	680
			256	45	125		
			320	41	110		
			350			112	515
			400		90	112	515
			500		90	112	515
			512	18	55		
			700			112	515
			1000			112	200
		L4	Above 4 Stages Please Contact Us				
Backlash (arcmin)		L1		≤10	≤10	≤10	≤10
		L2		≤12	≤12	≤12	≤12
		L3		≤15	≤15	≤15	≤15
Max.Radial Force		N		265	400	1240	3700
Max.Axial Force		N		200	420	1000	3500
Emergency Stop Torque		NM		2 Times Rated Torque			
Efficiency (η)		L1		96%			
		L2		94%			
		L3		90%			
Rated Input Speed(rpm)				3500	3500	3000	2000
Max.Input Speed(rpm)				7000	6000	5000	3500
GWT (kg)		L1		1.1	2.1	8	18
		L2		1.3	2.5	9.5	23
		L3		1.5	3.1	11.5	30
Service Life		h		20000 Hrs			
Noise		dB		≤58	≤62	≤65	≤65
Lubrication				Whole-life Free Service(Synthetic Complex Soap Grease)			
Operating Temperature				-10°C~+90°C (Beyond Temperature Please Contact Us)			
Mounting				Any Position			
Protect Class				IP65			

1. About L1 specifications major are measured on 5 : 1 gear ratio.

2. Ratios; (i = Nin /Out)

3. Backlash : Measured on 2% of nominal output torque.

4. Max. Radial and Axial Load; Applied to the output shaft center, and 50% of duty time, and at 100rpm.

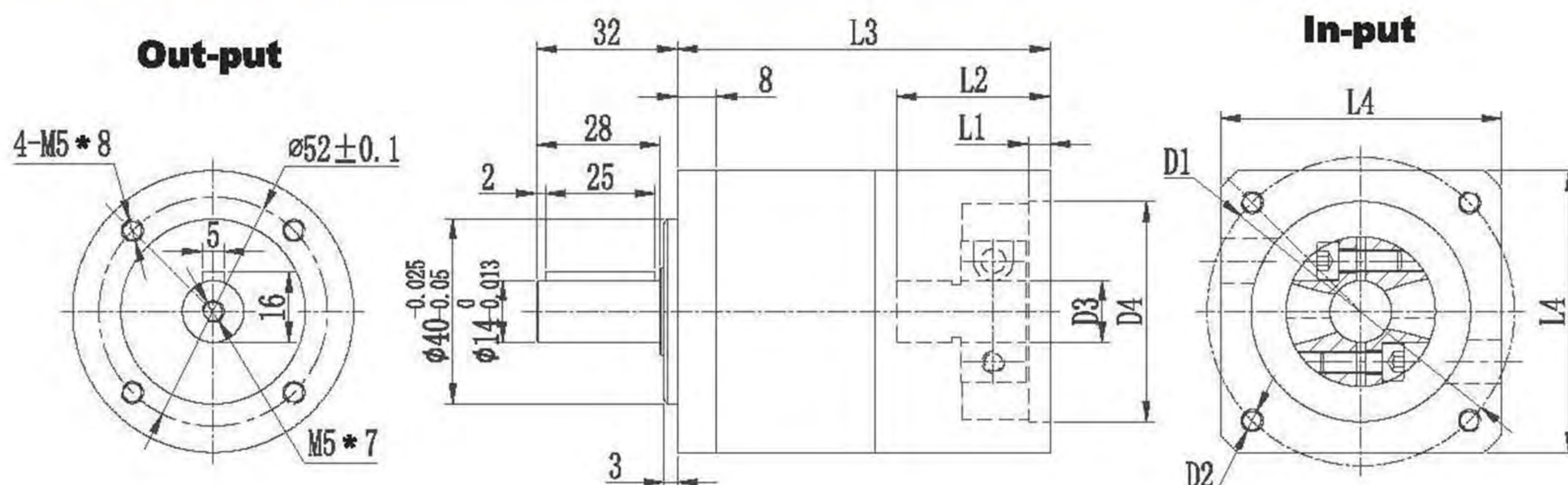
5. Duty Cycle < 60%, Average Lifetime = List value; Duty Cycle ≥ 60%, Average Lifetime < 50% List value.

6. Noise Level; Distance 1m, and measured on idle running, and at nominal input speed.

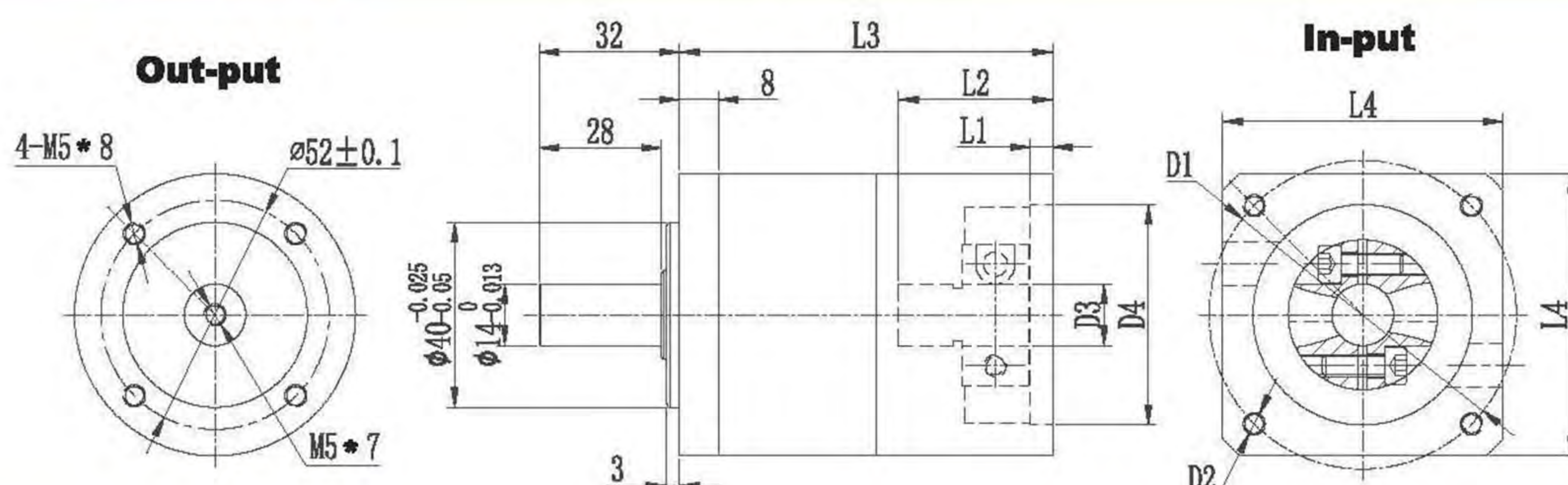
ZE 60 Drawing Diemensions



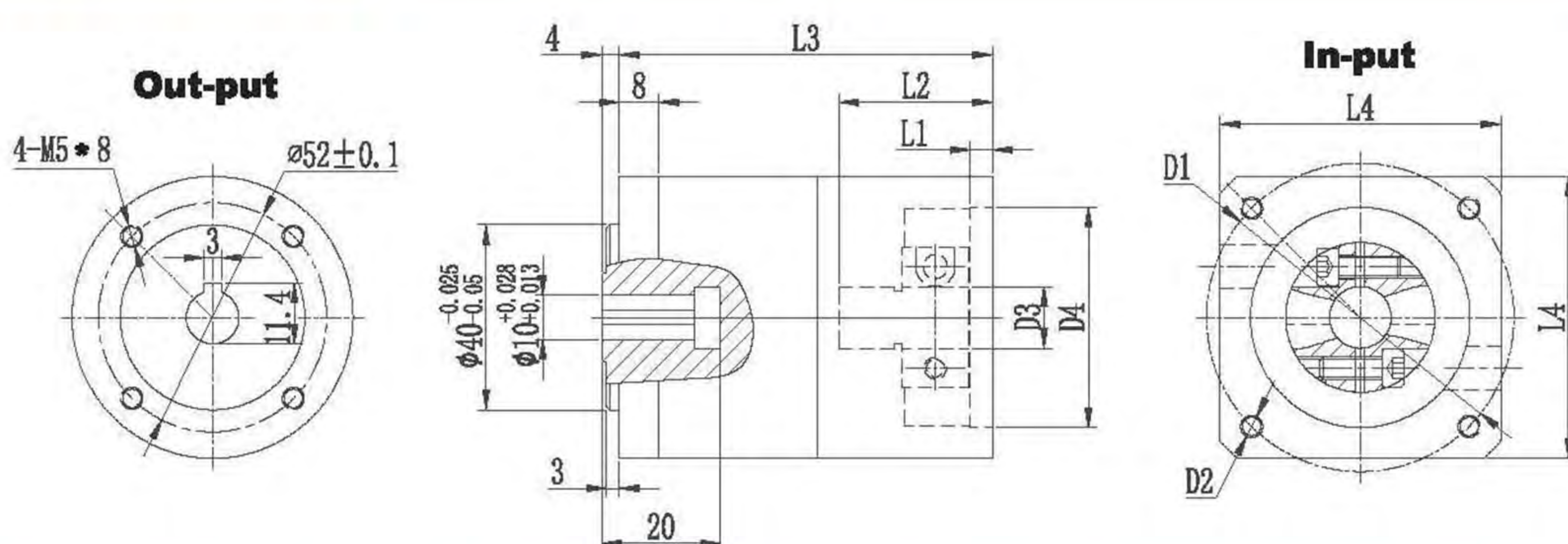
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



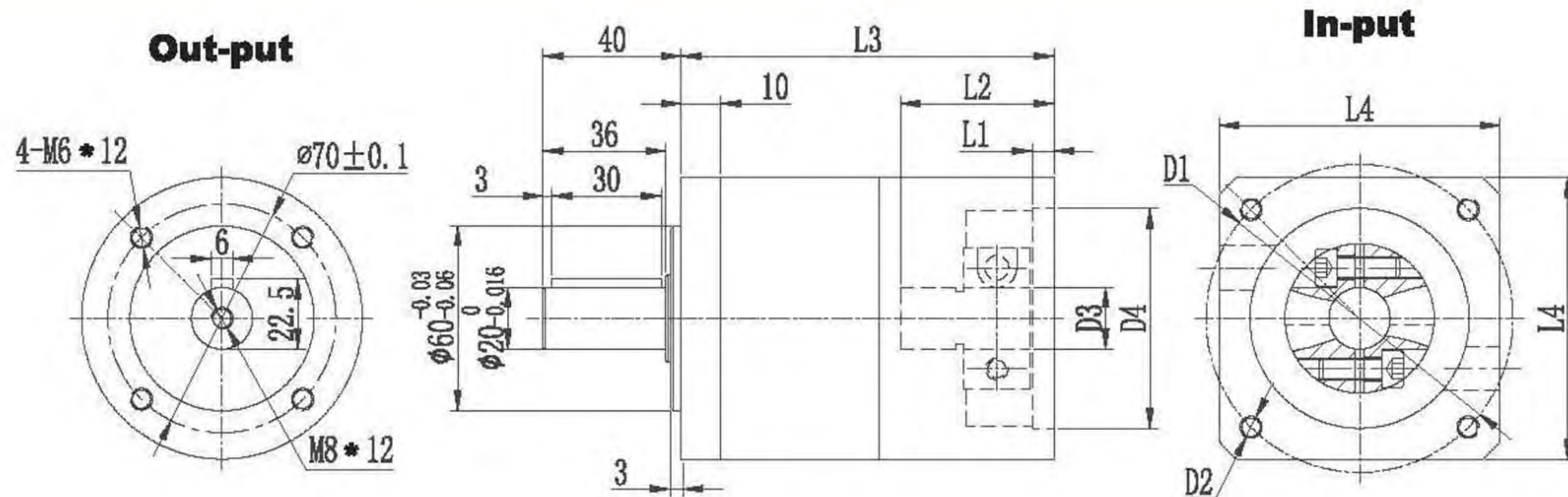
Motor	D1	D2	D3	L2	D4	L1	L4	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
0.2KW	70	4-M4/M5	$\phi 11$ (F7)	35	$\phi 50$ (F7)	5	64	94	113	132
0.4KW	70	4-M4/M5	$\phi 14$ (F7)	35	$\phi 50$ (F7)	5	64	94	113	132

Note:Above mentioned size based on standard product,
we are accept any others change.

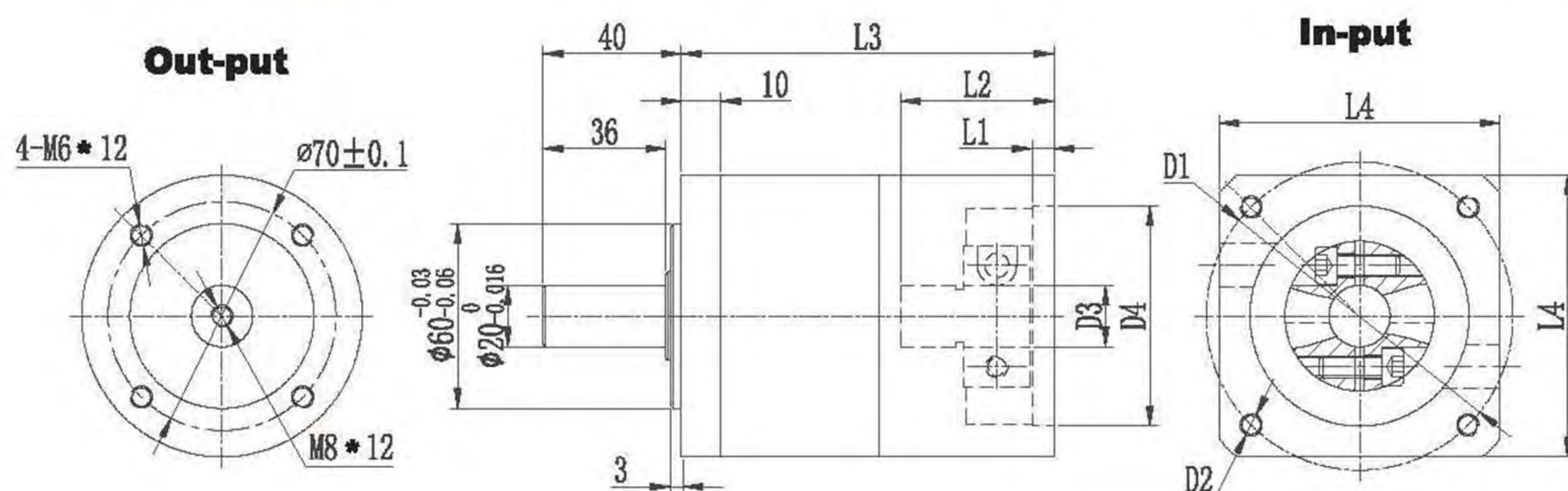


ZE 80 Drawing Dimensions

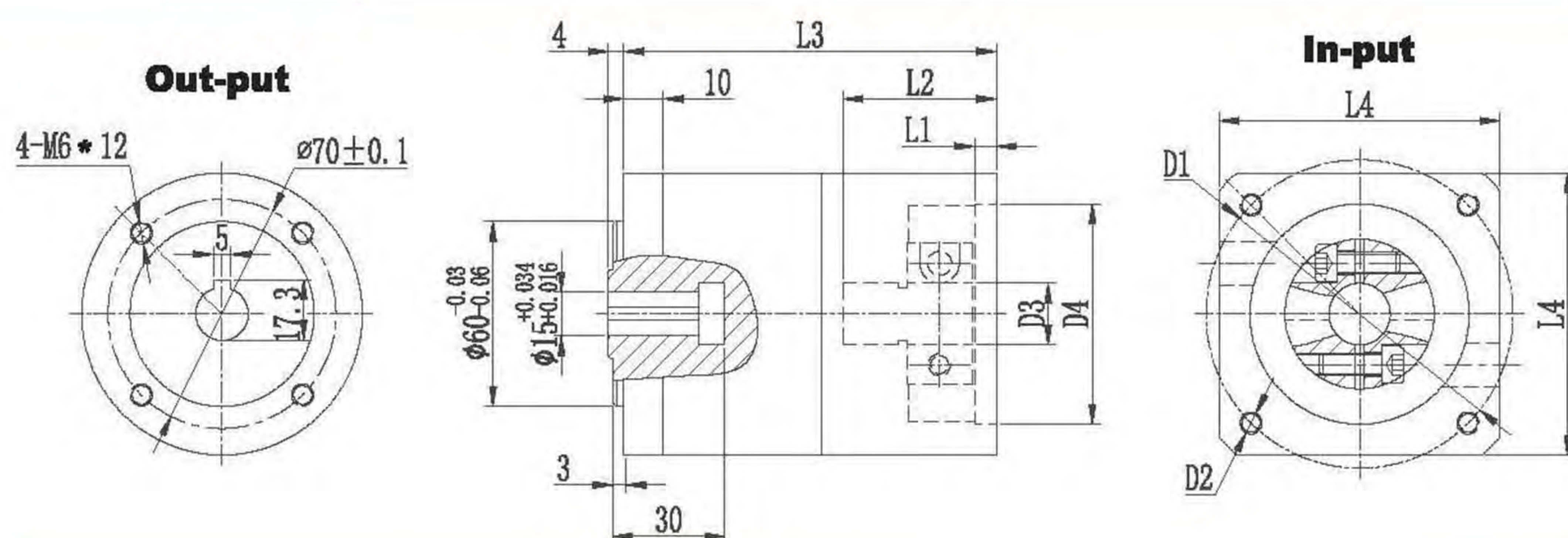
S2 (Shaft with key-way)



S1 (Shaft)



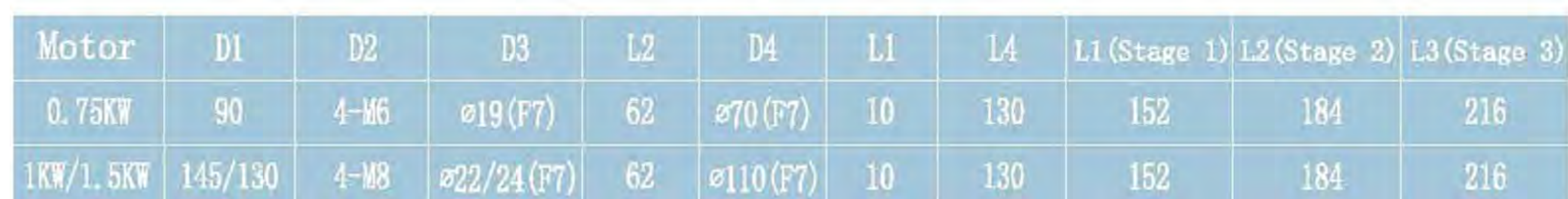
S3 (Hollow Shaft)



Motor	D1	D2	D3	L2	D4	L1	L4	L1 (Stage 1)	L2 (Stage 2)	L3 (Stage 3)
0.4KW	70	4-M4/M5	$\phi 14$ (F7)	45	50 (F7)	5	85	100	120	139
0.75KW	90	4-M5/M6	$\phi 19$ (F7)	45	70 (F7)	5	85	100	120	139

Note: Above mentioned size based on standard product, we are accept any others change.

S2(Shaft with key-way)

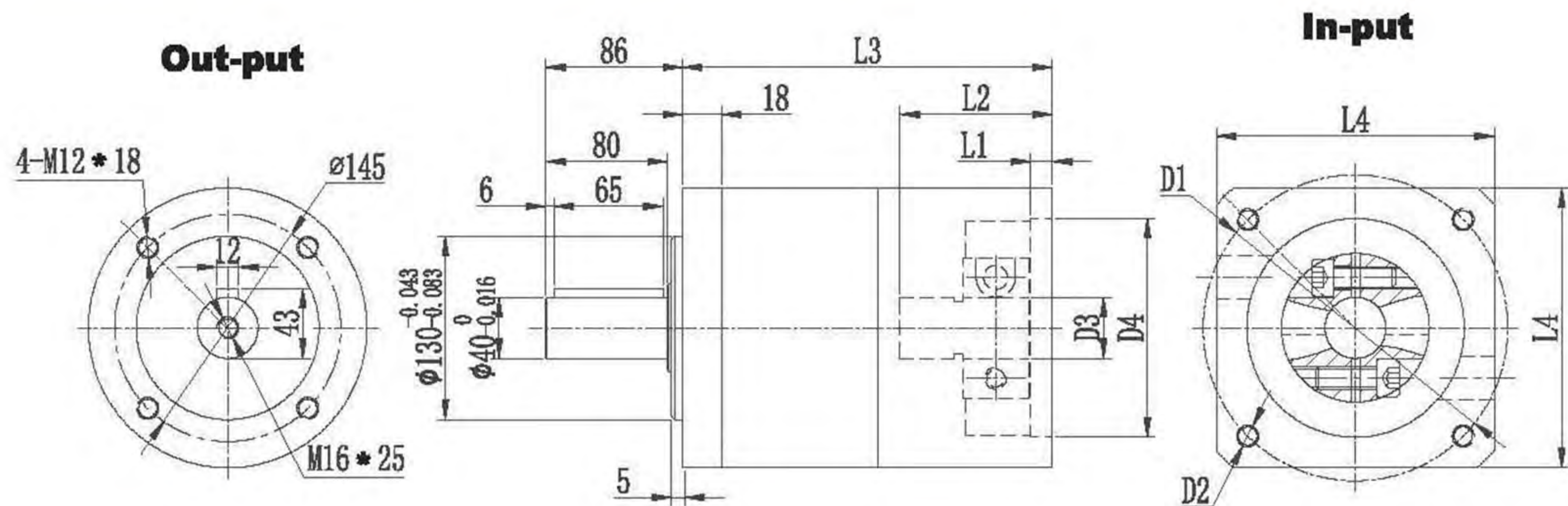


Note: Above mentioned size based on standard product, we are accept any others change.

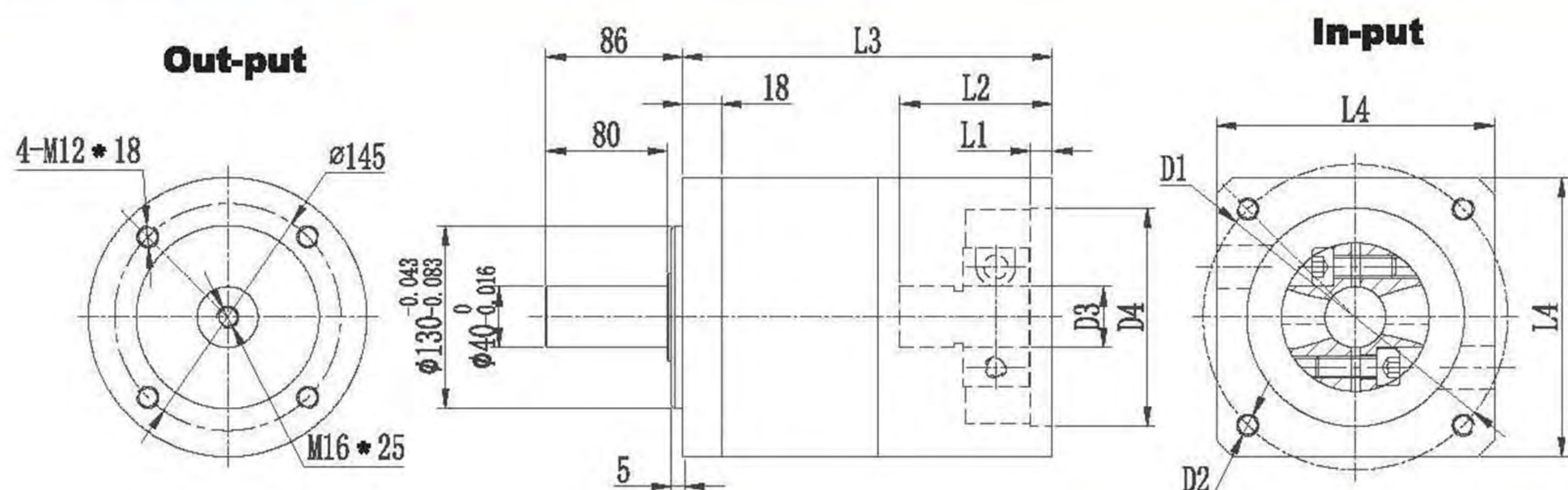


ZE160 Drawing Diemensions

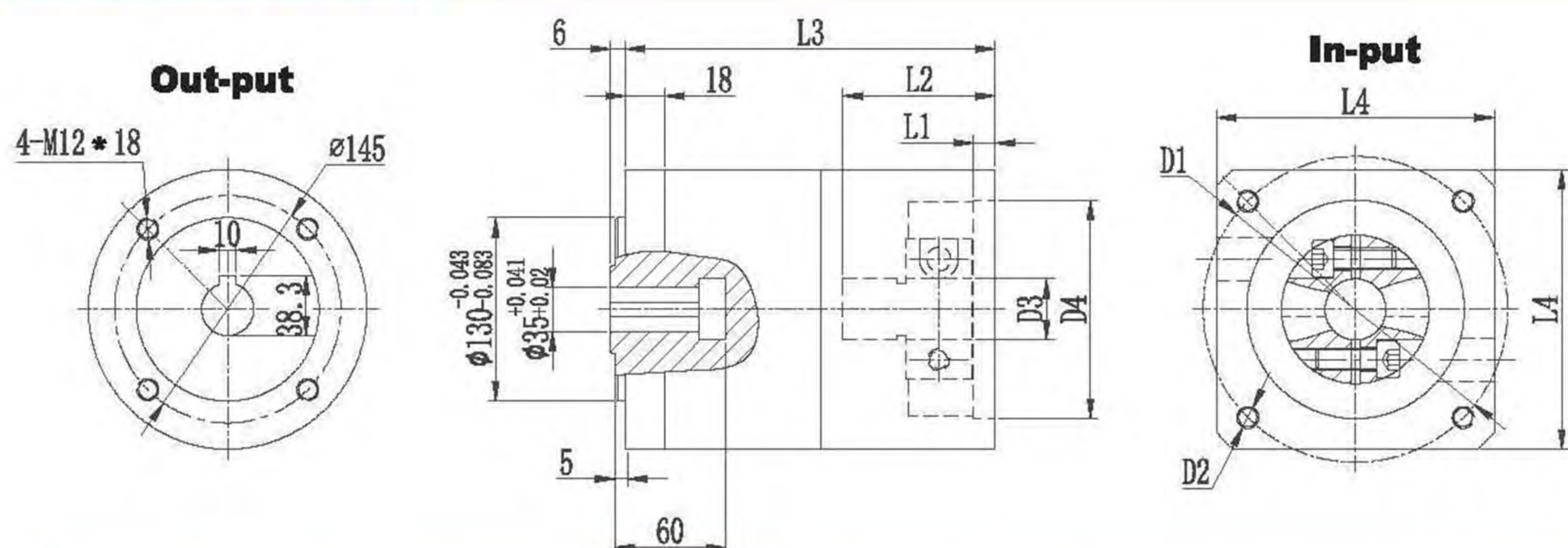
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



Motor	D1	D2	D3	L2	D4	L1	L4	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
2.0KW	145	4-M8	$\phi 22$ (F7)	62	110 (F7)	10	150	177	224	271
3.0KW	200	4-M12	$\phi 35$ (F7)	82	114.3 (F7)	10	180	197	244	291

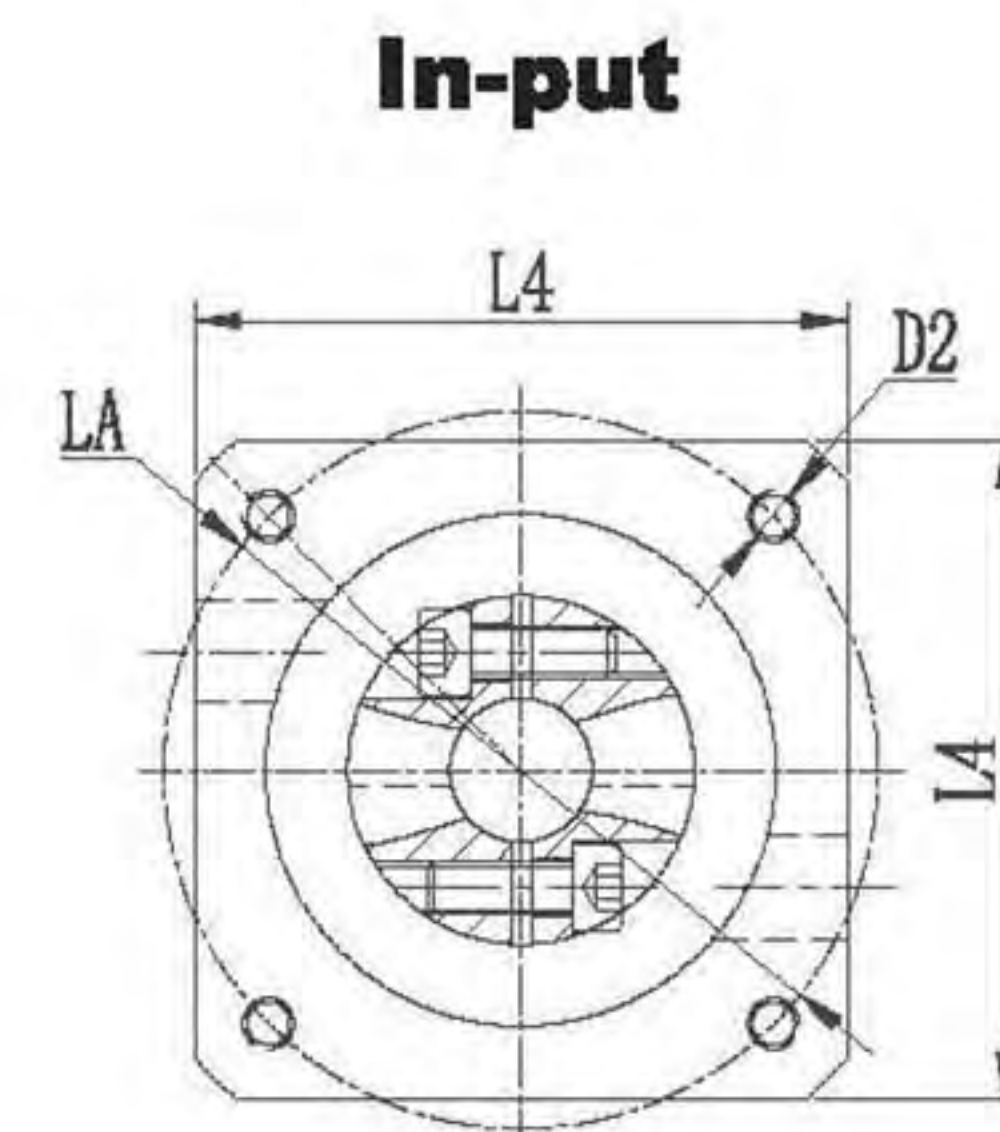
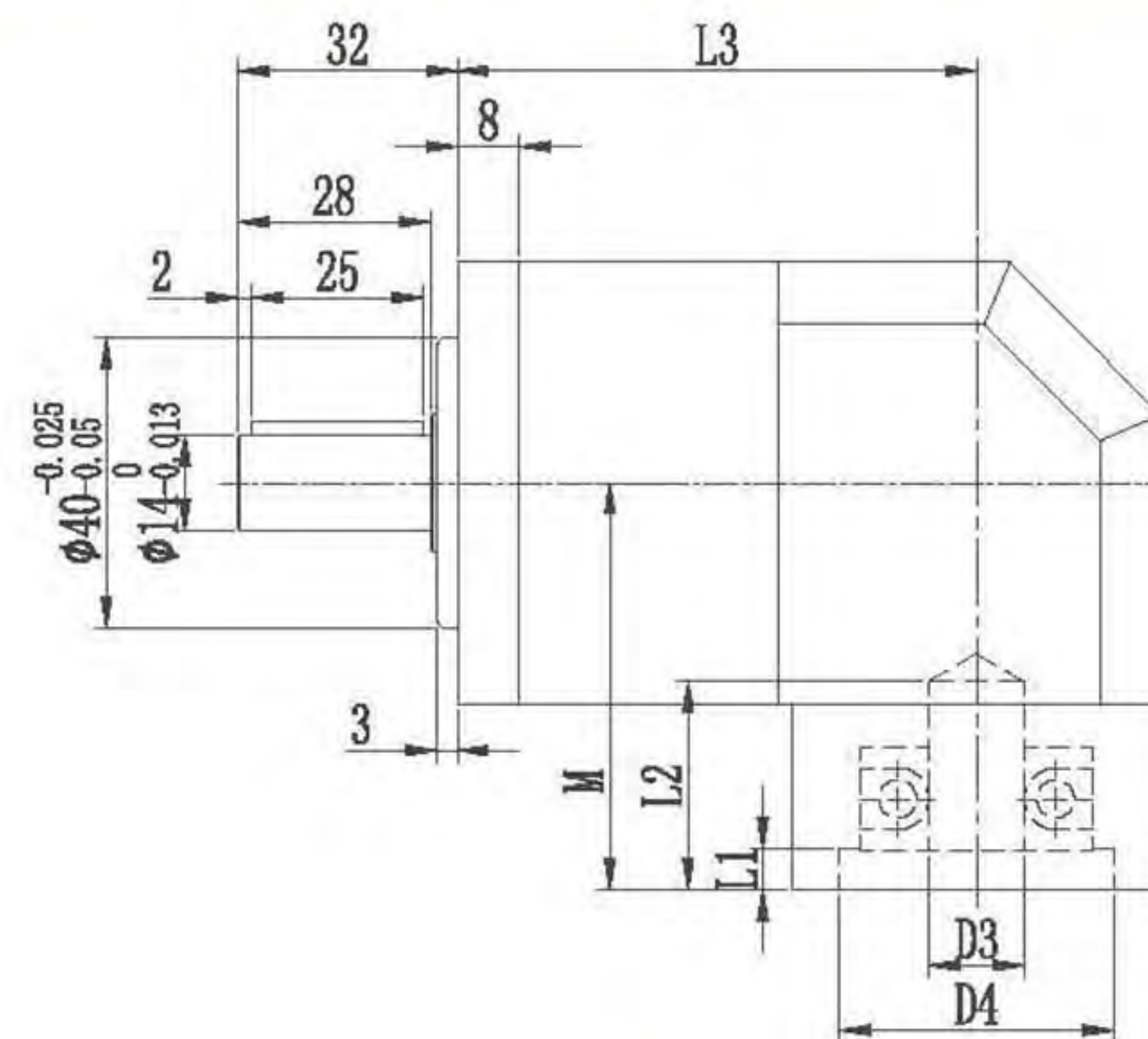
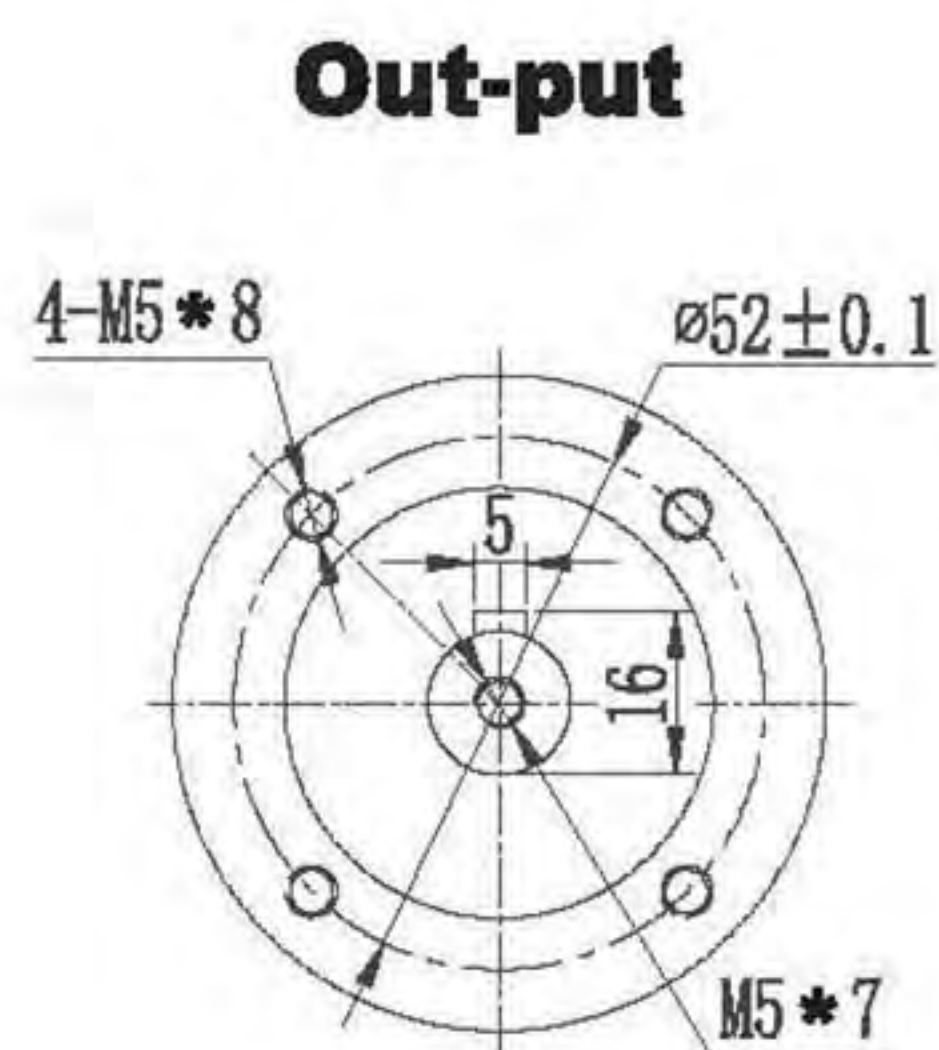
Note: Above mentioned size based on standard product, we are accept any others change.

ZER SERIES TECHNICAL SPECIFICATIONS

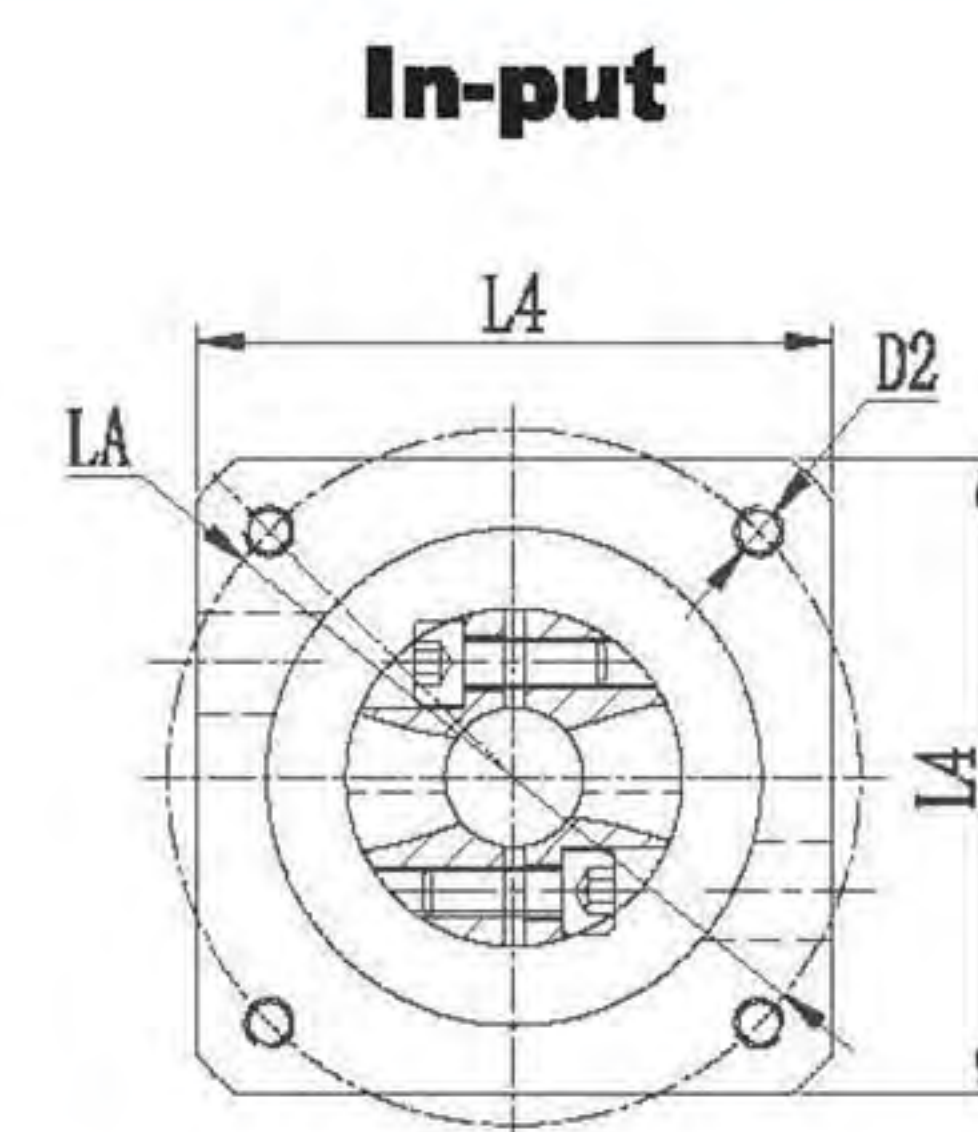
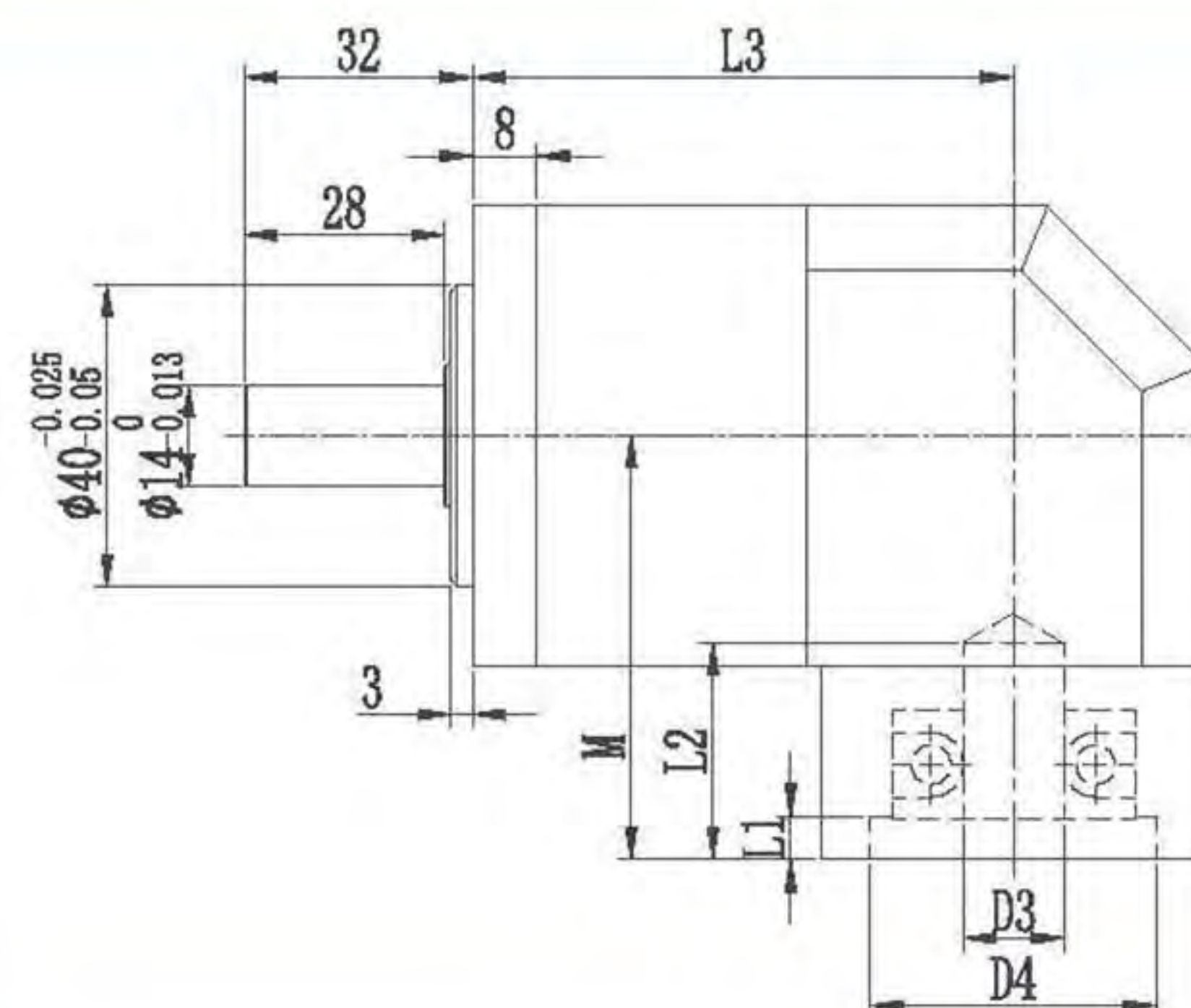
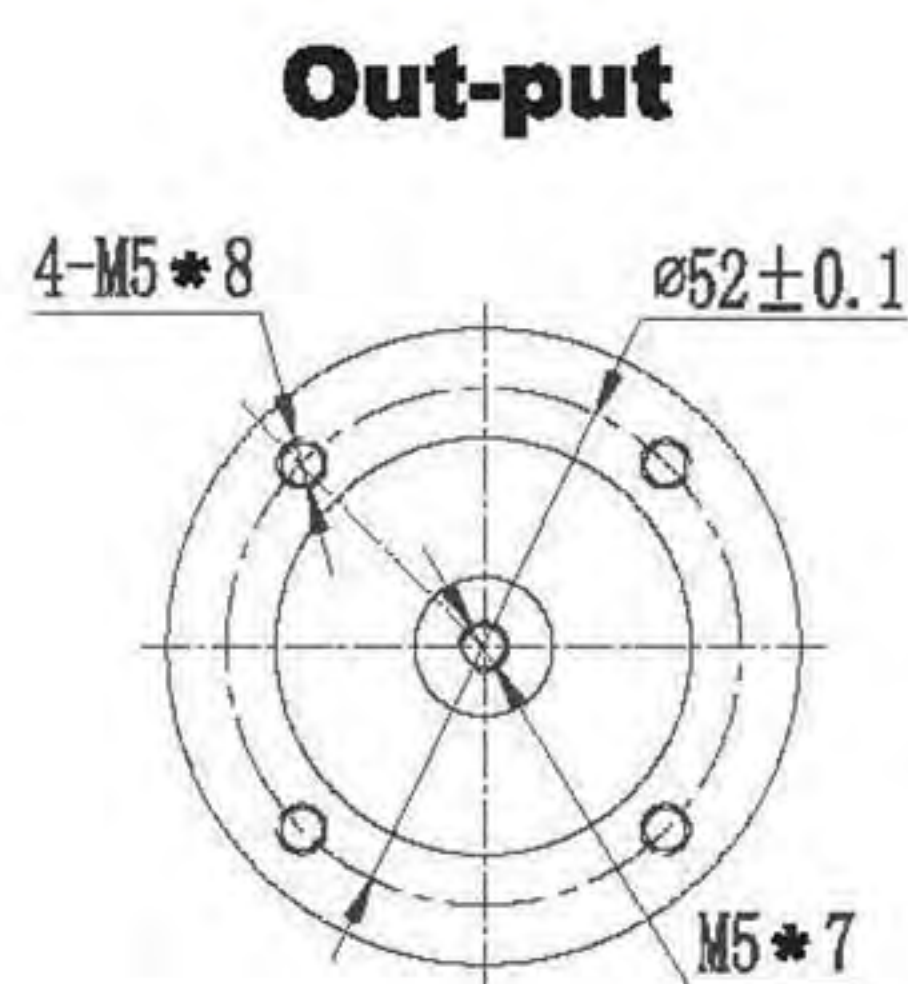
Specification	Units	Stage	Ratio	ZER60	ZER80	ZER120	ZER160
Rated Output Torque/ T_{2N}	NM	L1	3	25	50	140	310
			4	42	120	260	800
			5	40	110	240	680
			7			105	470
			8	18	40		
			10	12	20	100	200
		L2	9	42	50	140	340
			12	40	50	200	680
			15	40	50	200	680
			16	42	110	260	800
			20	42	110	260	800
			25	40	100	240	680
			28			235	800
			30	25	65	235	680
			32	45	125		
			35	40		140	590
			40	42	100	260	680
			50	23		112	340
			64	18	50		
			70			105	470
			100			105	200
		L3	60	45	110	260	800
			64	42	120	260	800
			80	42	110	260	680
			100	42	110	260	800
			120	40	110	260	800
			125	23	110	230	700
			140	25		260	800
			150	23	110	260	800
			160	45	120	260	800
			200	40	90	230	800
			250	42	110	200	680
			256	45	125		
			320	41	110		
			350			112	515
			400		90	112	515
			500		90	112	515
			512	18	55		
			700			112	515
			1000			112	200
		L4	Above 4 Stages Please Contact Us				
Backlash (arcmin)		L1		≤10	≤10	≤10	≤10
		L2		≤12	≤12	≤12	≤12
		L3		≤15	≤15	≤15	≤15
Max.Radial Force		N		265	400	1240	3700
Max.Axial Force		N		200	420	1000	3500
Emergency Stop Torque		NM		2 Times Rated Torque			
Efficiency (η)		L1		96%			
		L2		94%			
		L3		90%			
Rated Input Speed(rpm)				3500	3500	3000	2000
Max.Input Speed(rpm)				7000	6000	5000	3500
GWT (kg)		L1		1.6	4.1	9.6	20
		L2		2.1	4.7	11.5	25
		L3		2.8	5.4	14	30
Service Life		h		20000 Hrs			
Noise		dB		≤65	≤65	≤65	≤65
Lubrication				Whole-life Free Service(Synthetic Complex Soap Grease)			
Operating Temperature				-10°C--+90°C (Beyond Temperature Please Contact Us)			
Mounting				Any Position			
Protect Class				IP65			

1. About L1 specifications major are measured on 5 : 1 gear ratio.
2. Ratios; ($i = N_{in} / N_{out}$)
3. Backlash : Measured on 2% of nominal output torque.
4. Max. Radial and Axial Load; Applied to the output shaft center, and 50% of duty time,and at 100rpm.
5. Duty Cycle < 60%, Average Lifetime = List value; Duty Cycle >= 60%, Average Lifetime < 50% List value.
6. Noise Level; Distance 1m, and measured on Idle running, and at nominal Input speed.

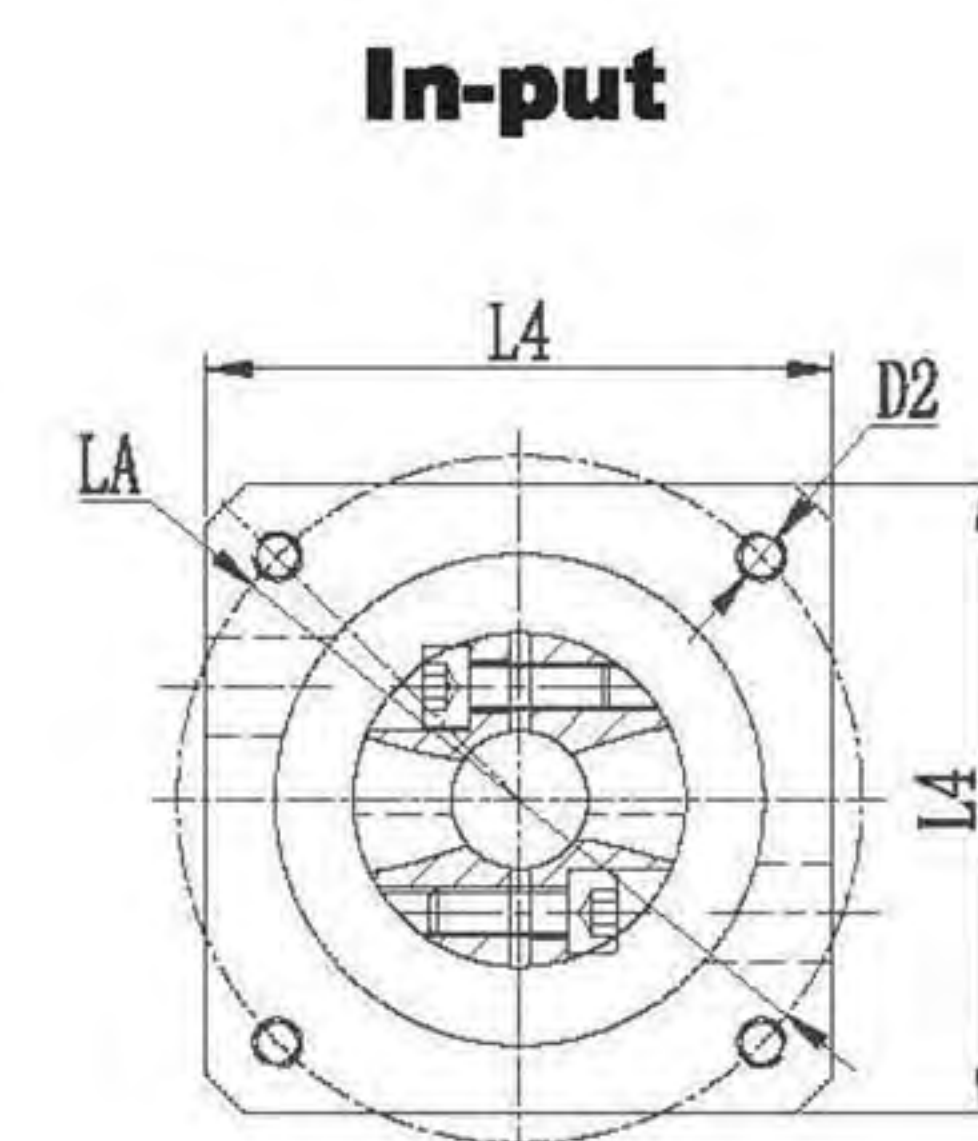
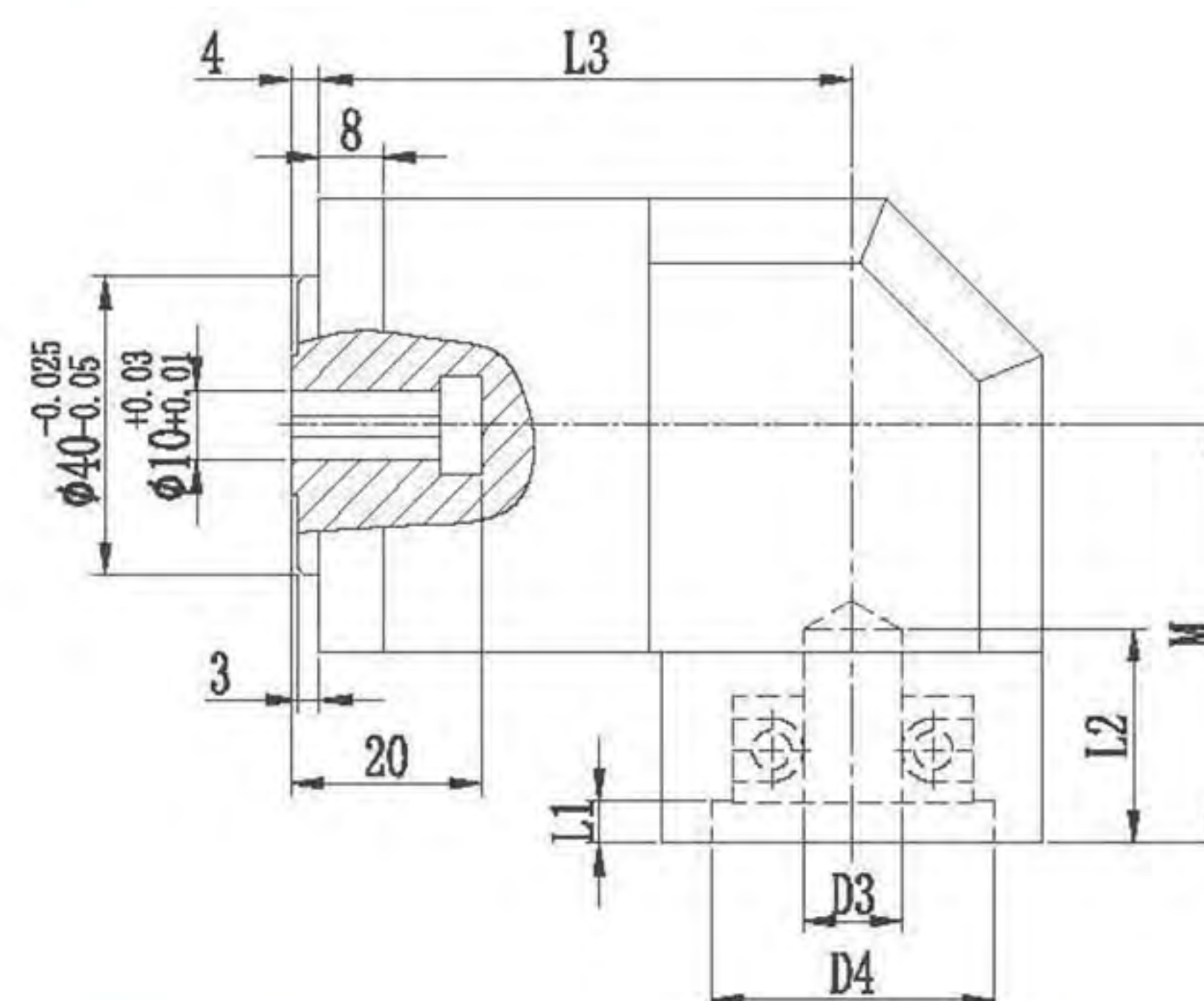
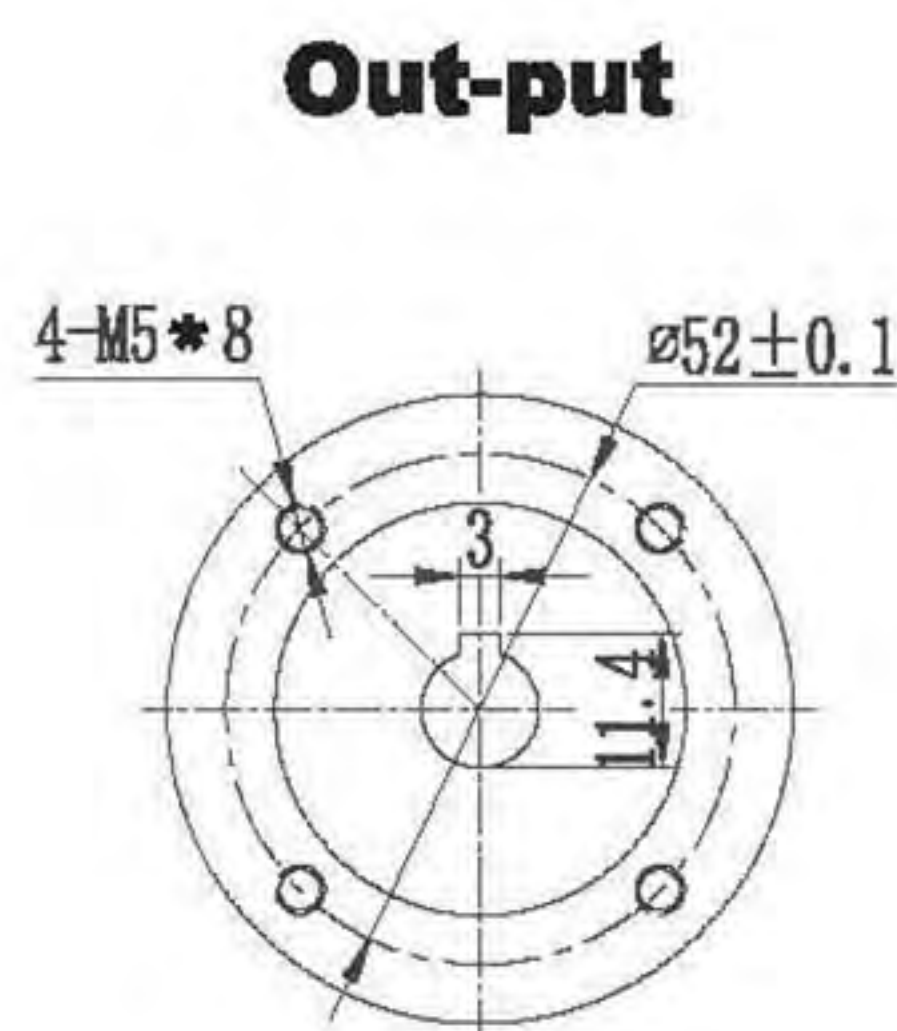
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



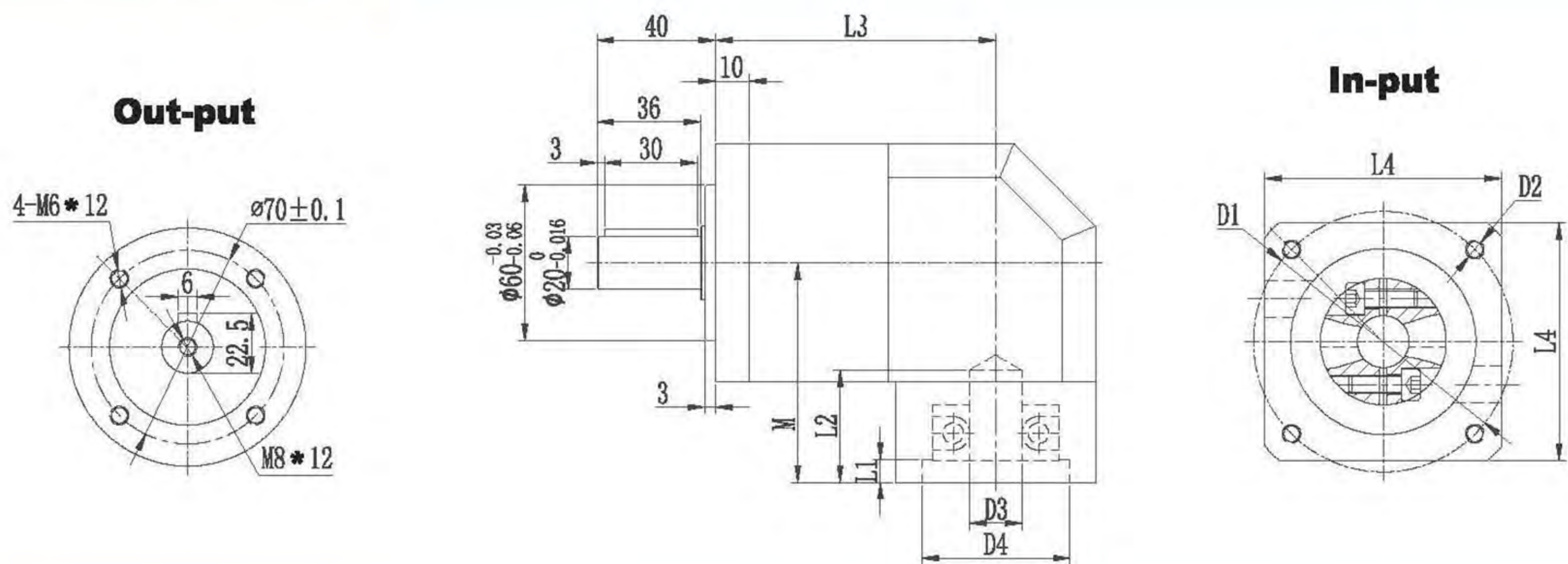
Motor	D1	D2	D3	L2	D4	L1	L4	M	L1 (Stage 1)	L2 (Stage 2)	L3 (Stage 3)
0.2KW	70	4-M4/M5	ø11 (F7)	35	ø50 (H7)	5	64	72	90	108	125
0.4KW	70	4-M4/M5	ø14 (F7)	35	ø50 (H7)	5	64	72	90	108	125

Note: Above mentioned size based on standard product, we are accept any others change.

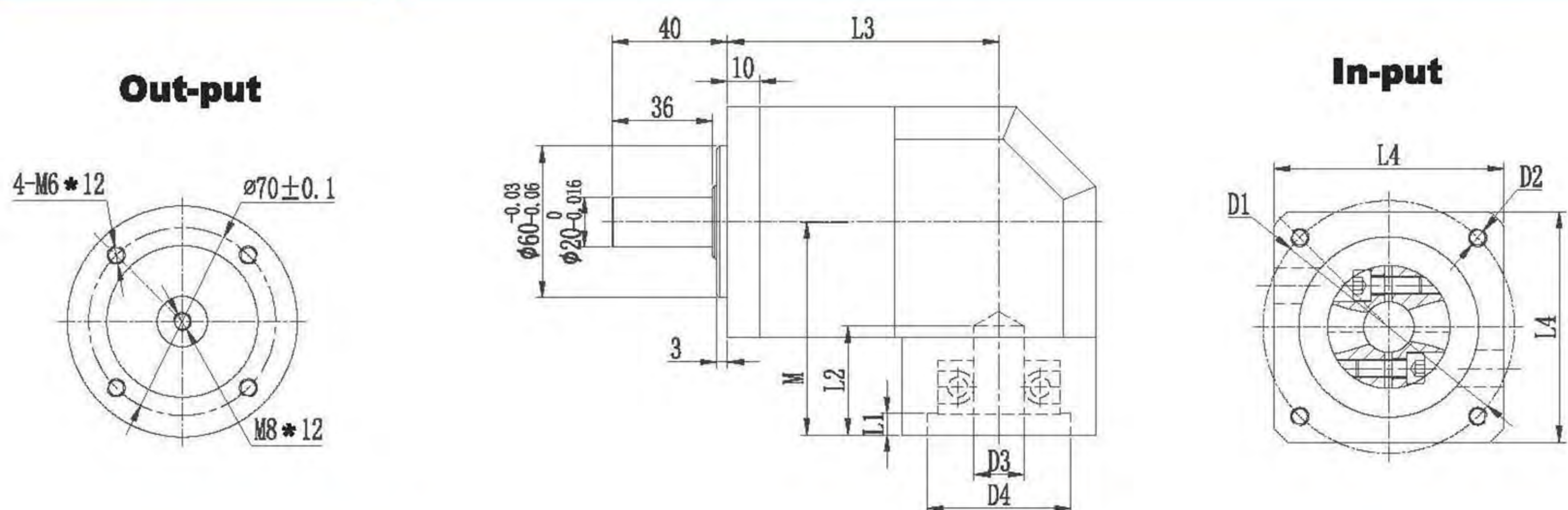


ZER80 Drawing Diemensions

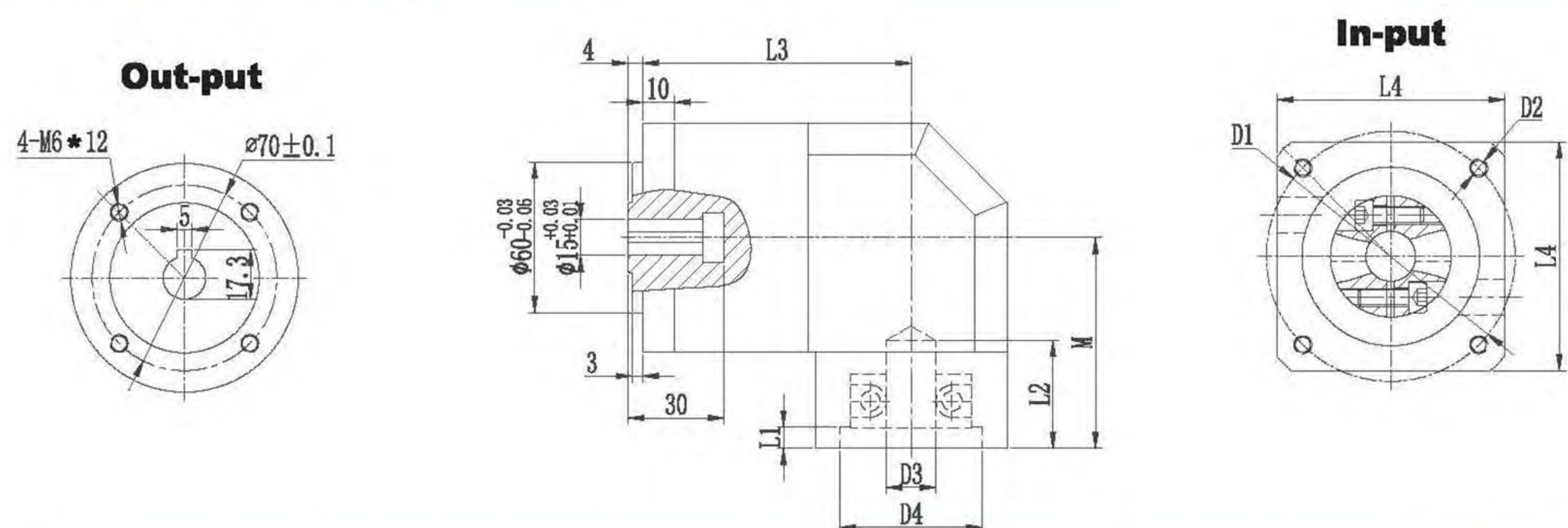
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



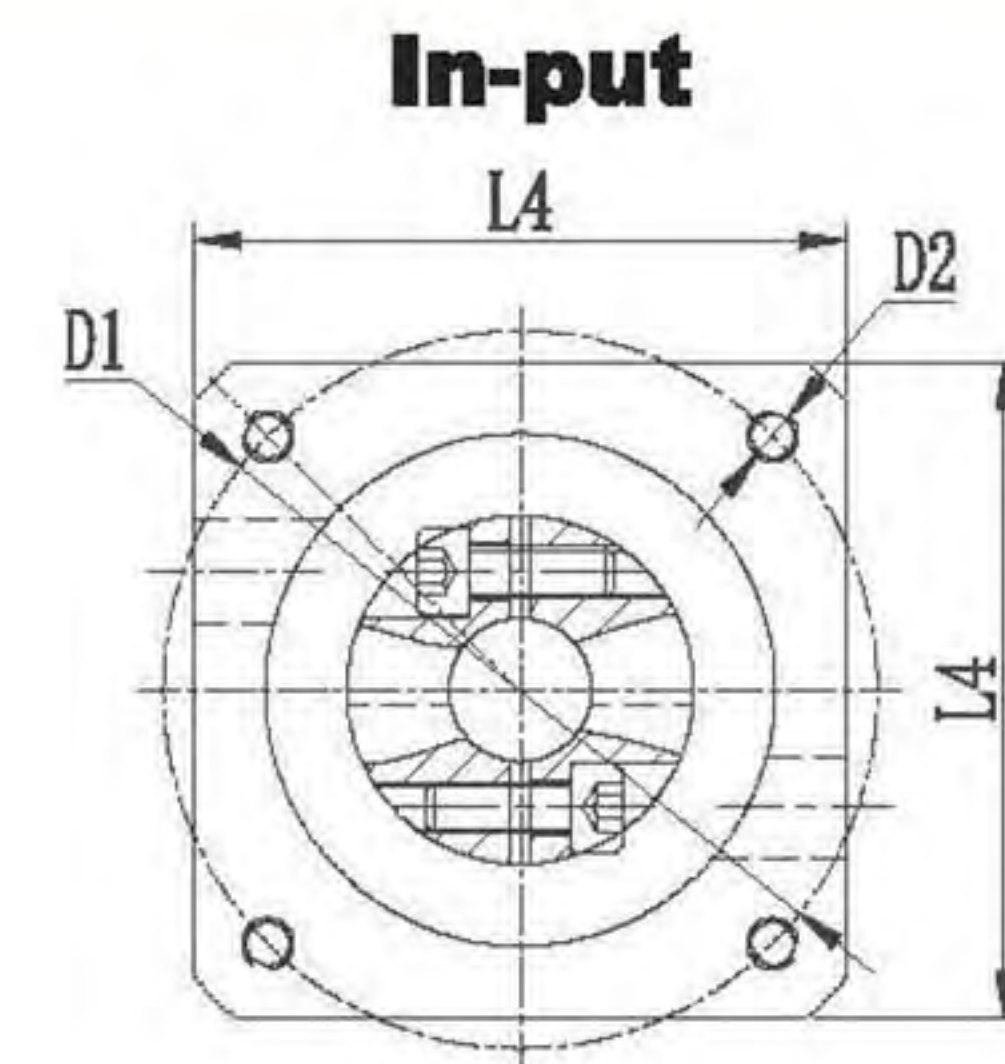
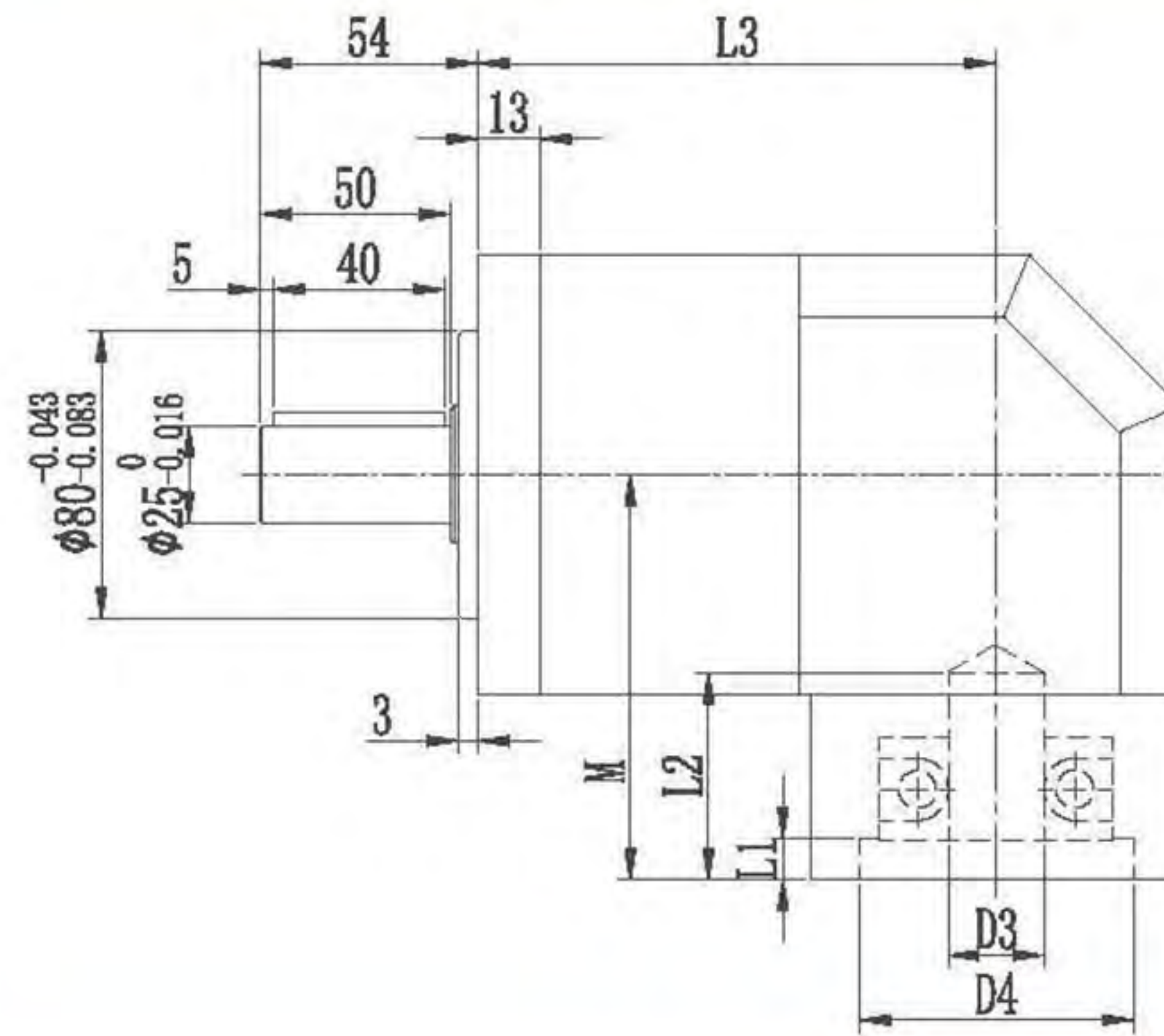
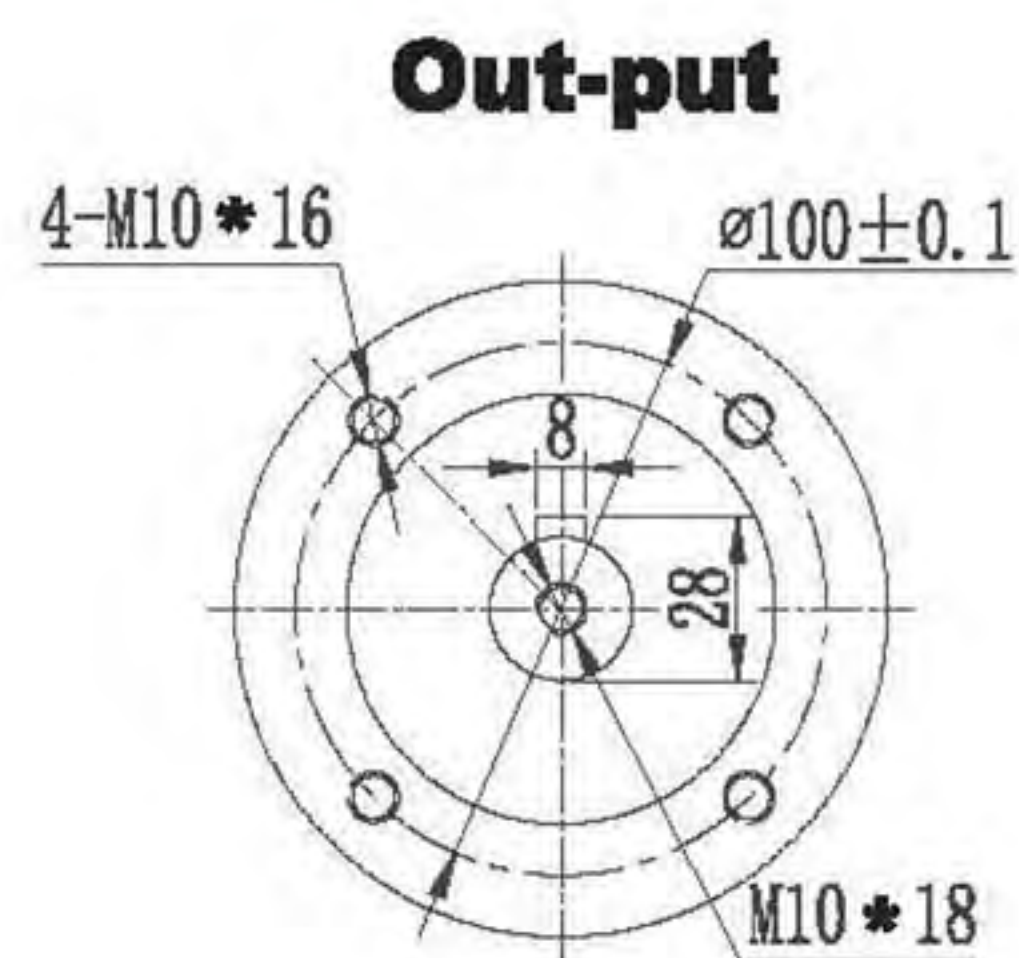
Motor	D1	D2	D3	L2	D4	L1	L4	M	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
0.4KW	70	4-M4/M5	$\phi 14$ (F7)	35	50(H7)	5	90	143	116	134	152
0.75KW	90	4-M5/M6	$\phi 19$ (F7)	35	70(H7)	5	90	143	116	134	152

Note:Above mentioned size based on standard product,
we are accept any others change.

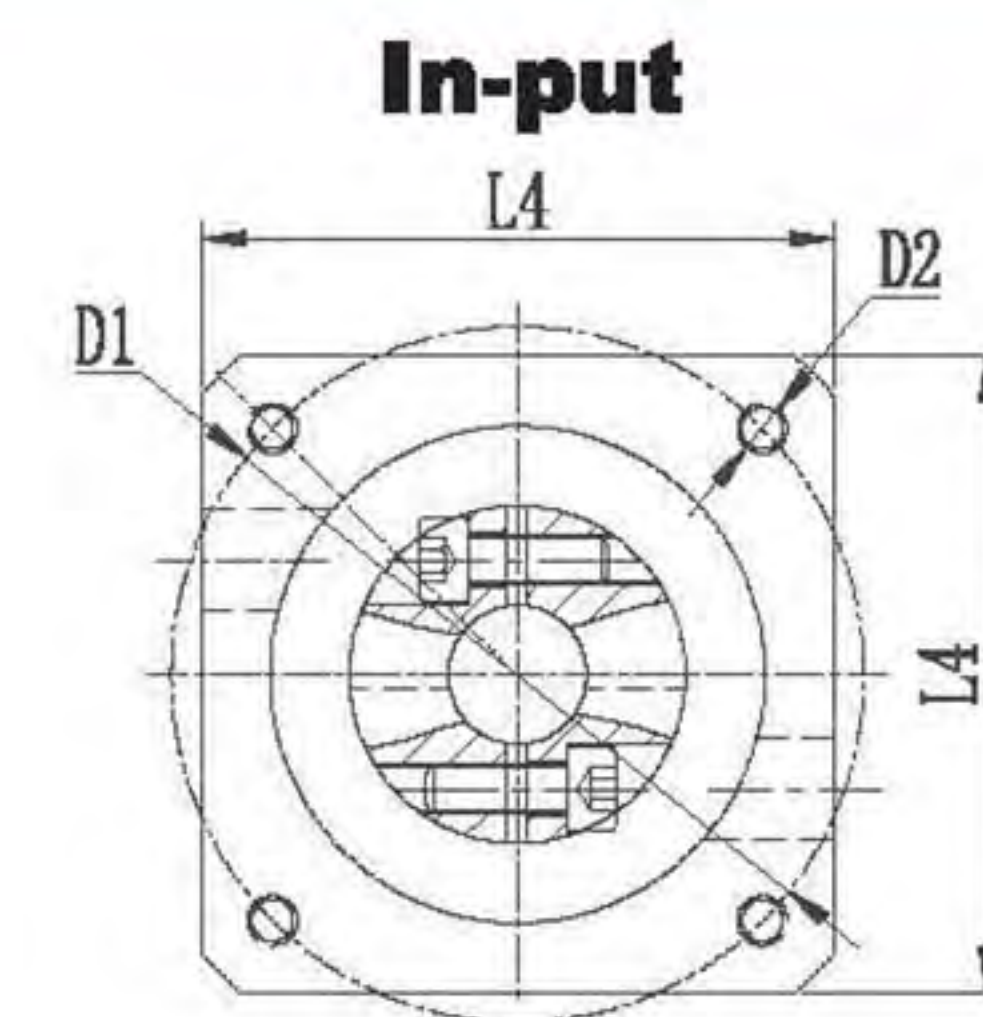
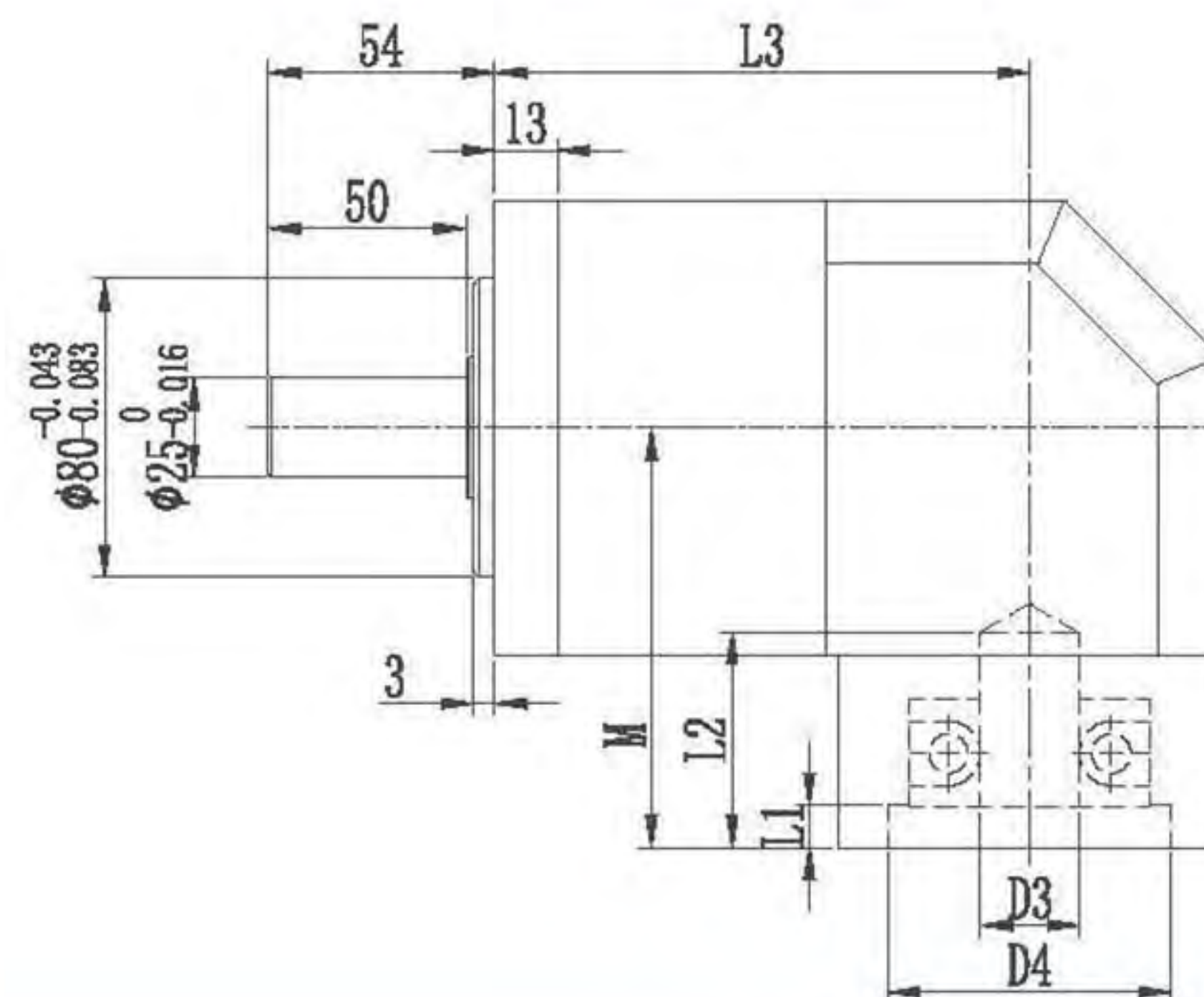
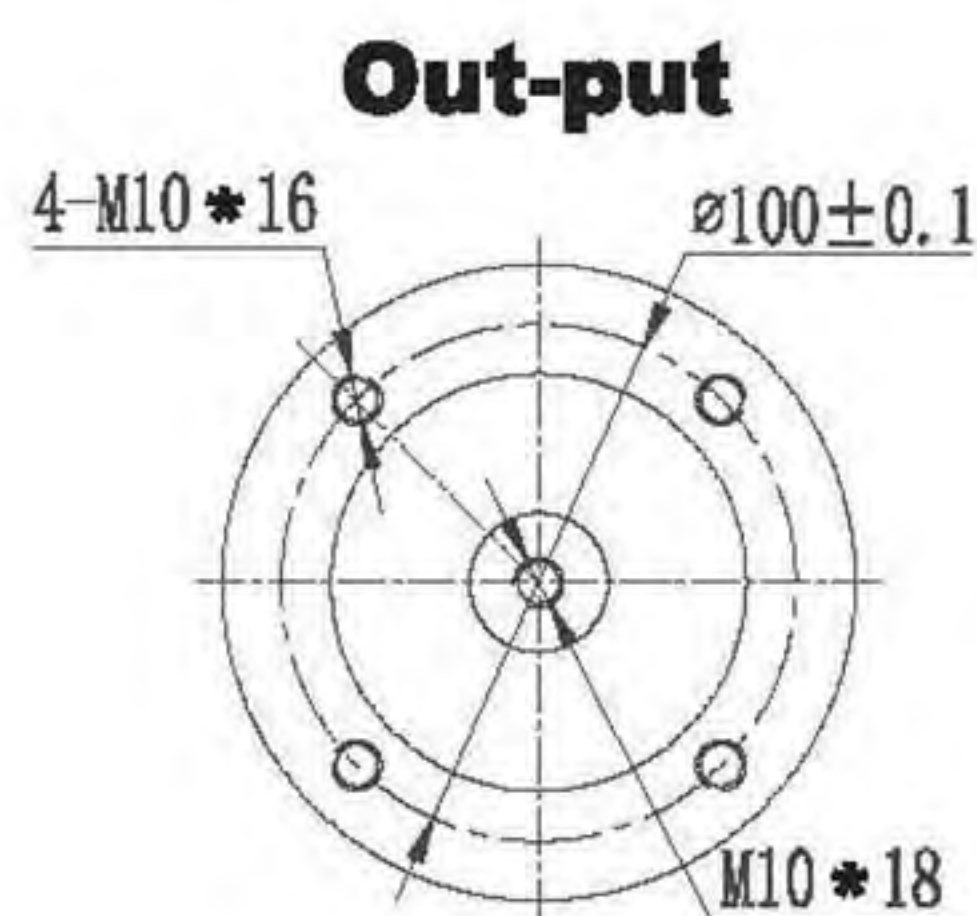


ZER120 Drawing Diemensions

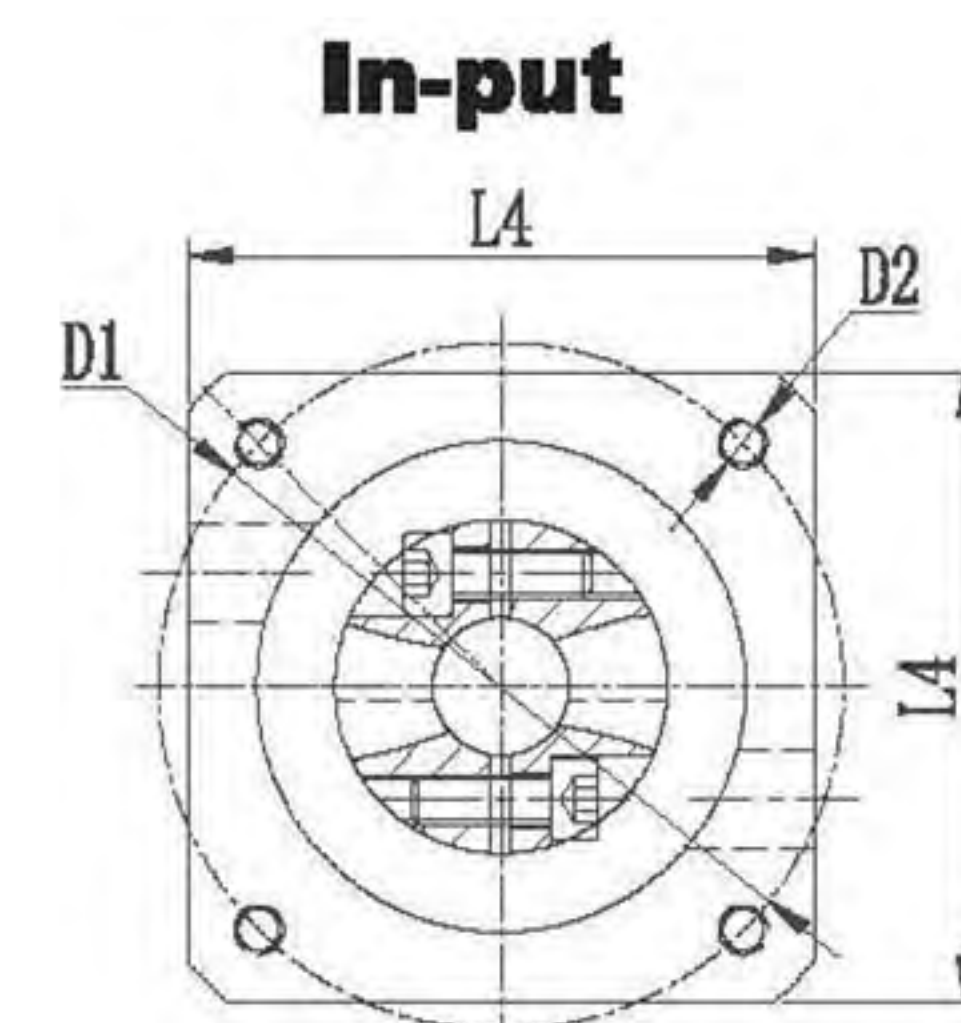
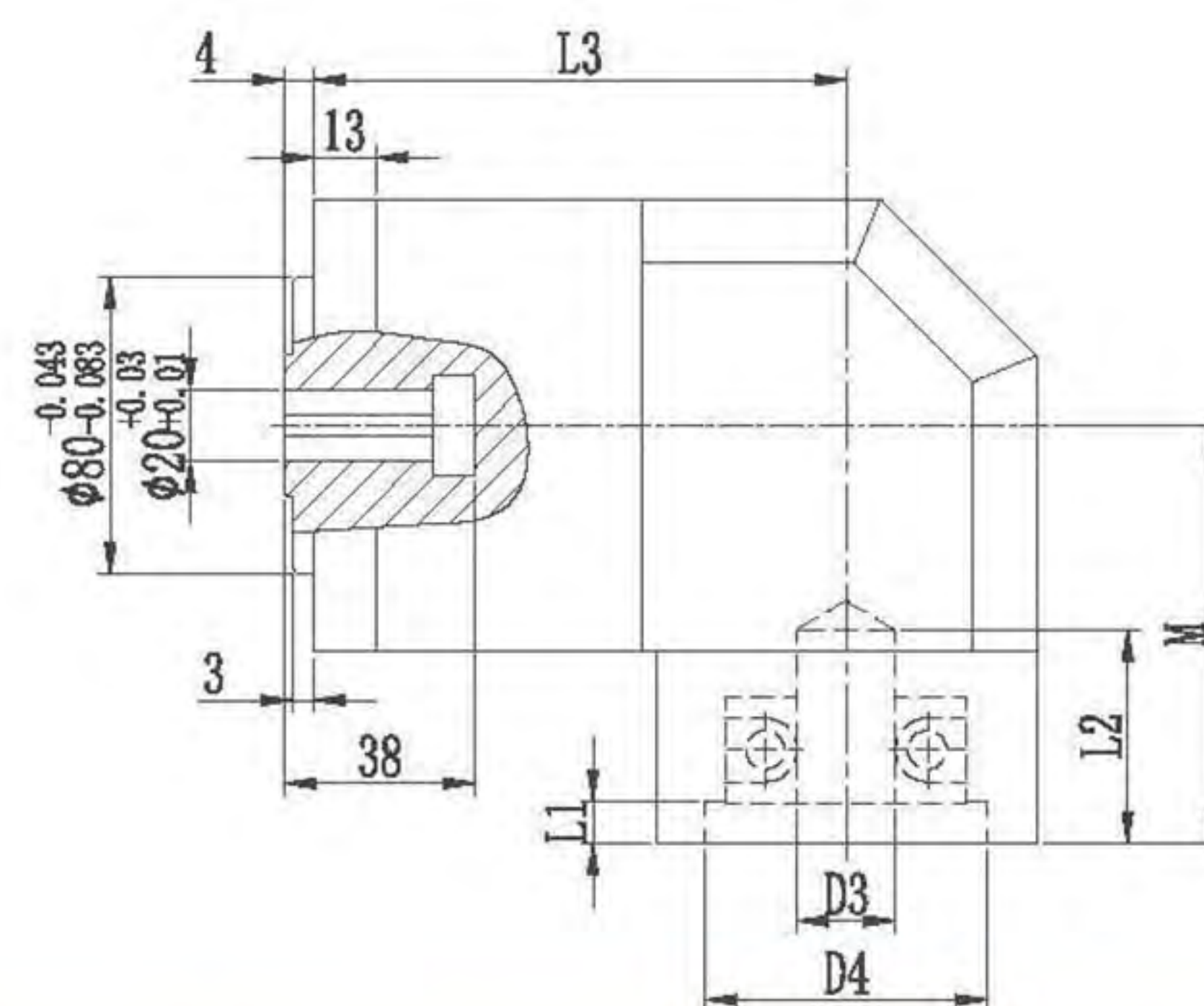
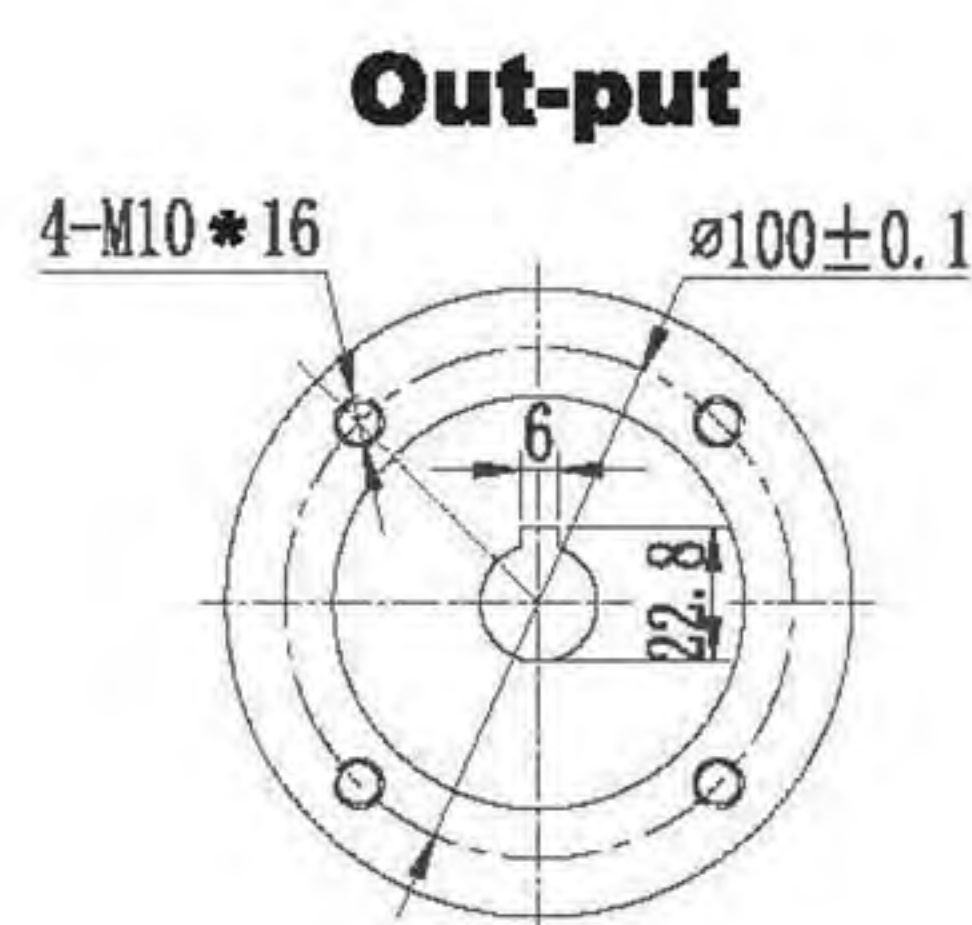
S2 (Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



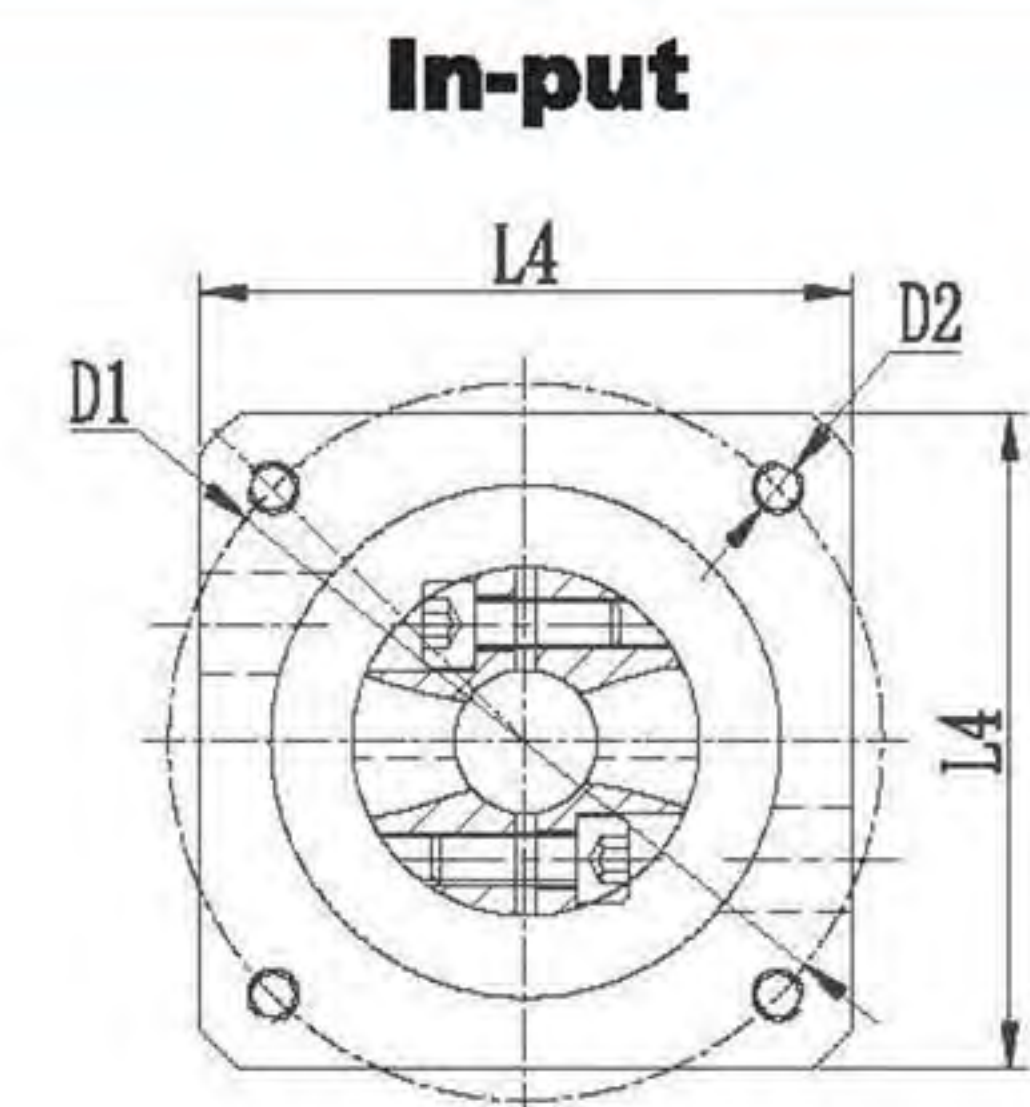
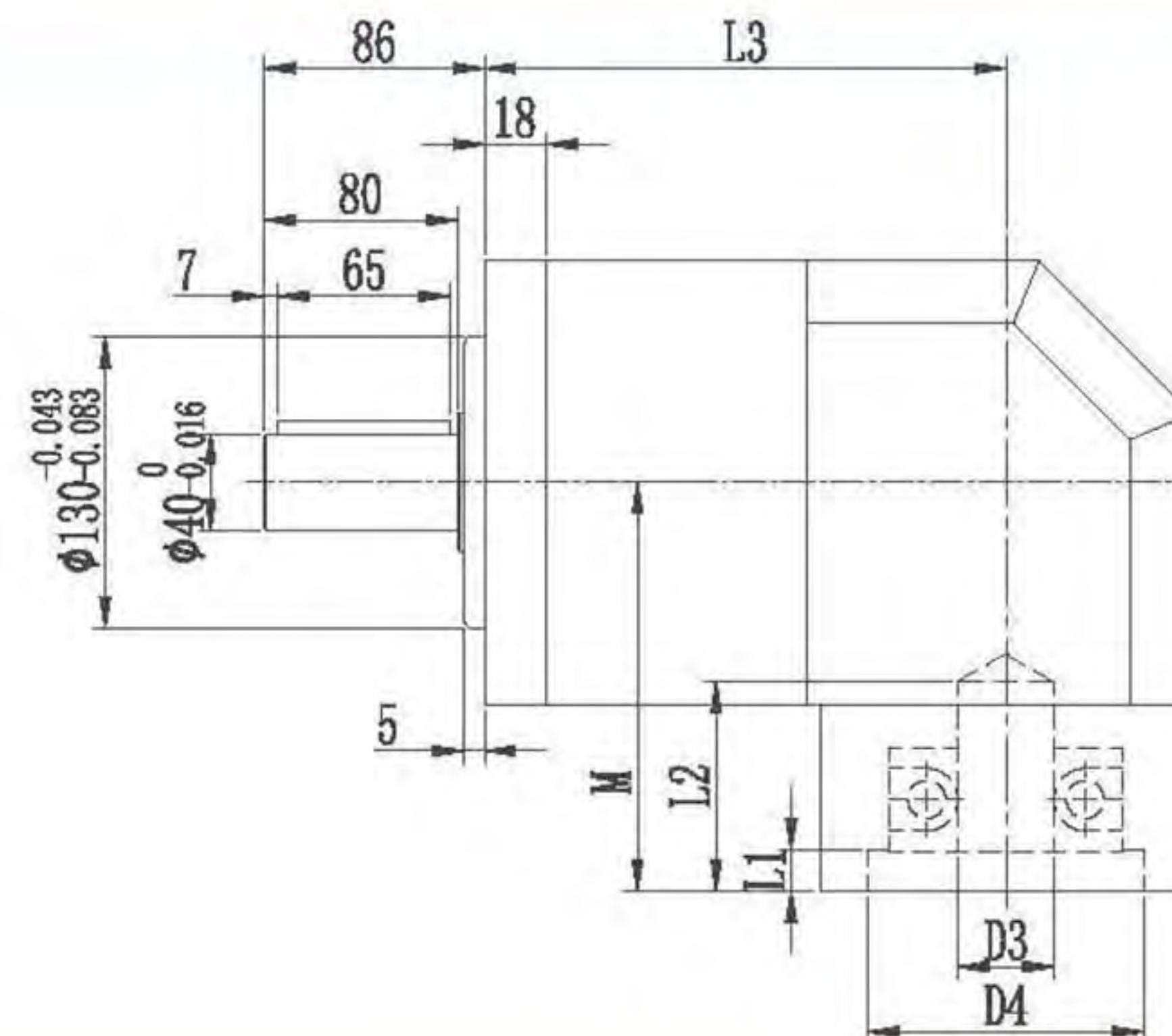
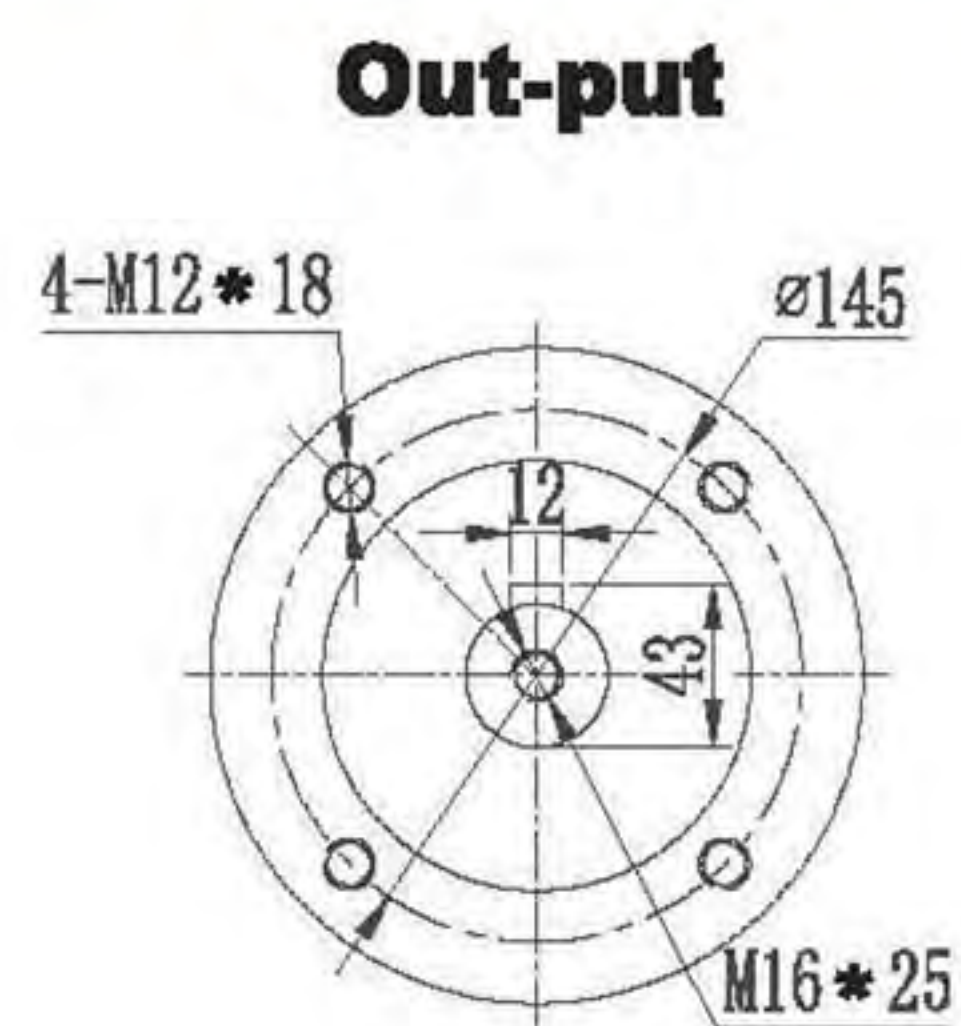
Motor	D1	D2	D3	L2	D4	L1	L4	M	L1 (Stage 1)	L2 (Stage 2)	L3 (Stage 3)
0.75KW	90	4-M6	ø19 (F7)	54	ø70 (H7)	10	130	114	151	183	215
1KW/1.5KW	145/130	4-M8	ø22/24 (F7)	64	ø110 (H7)	10	130	124	151	183	215

Note: Above mentioned size based on standard product,
we are accept any others change.

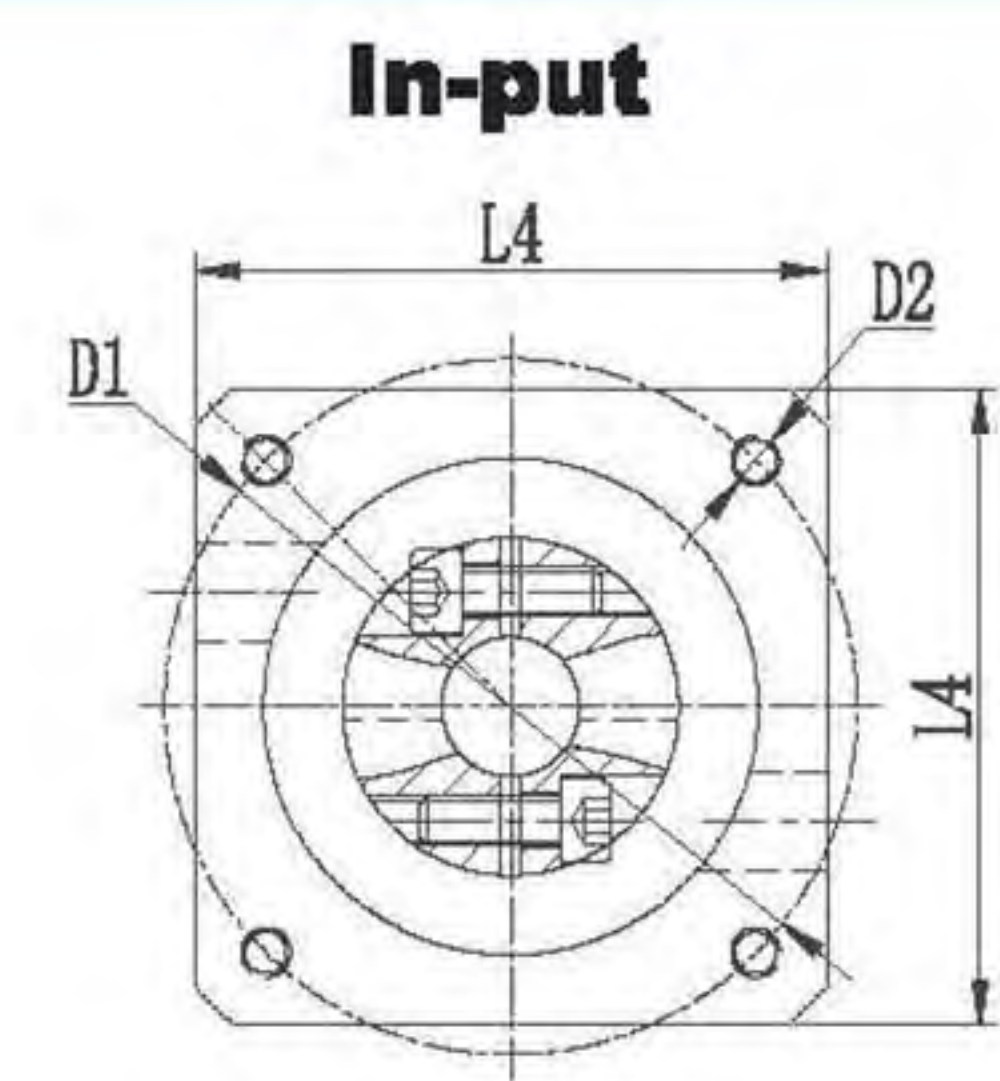
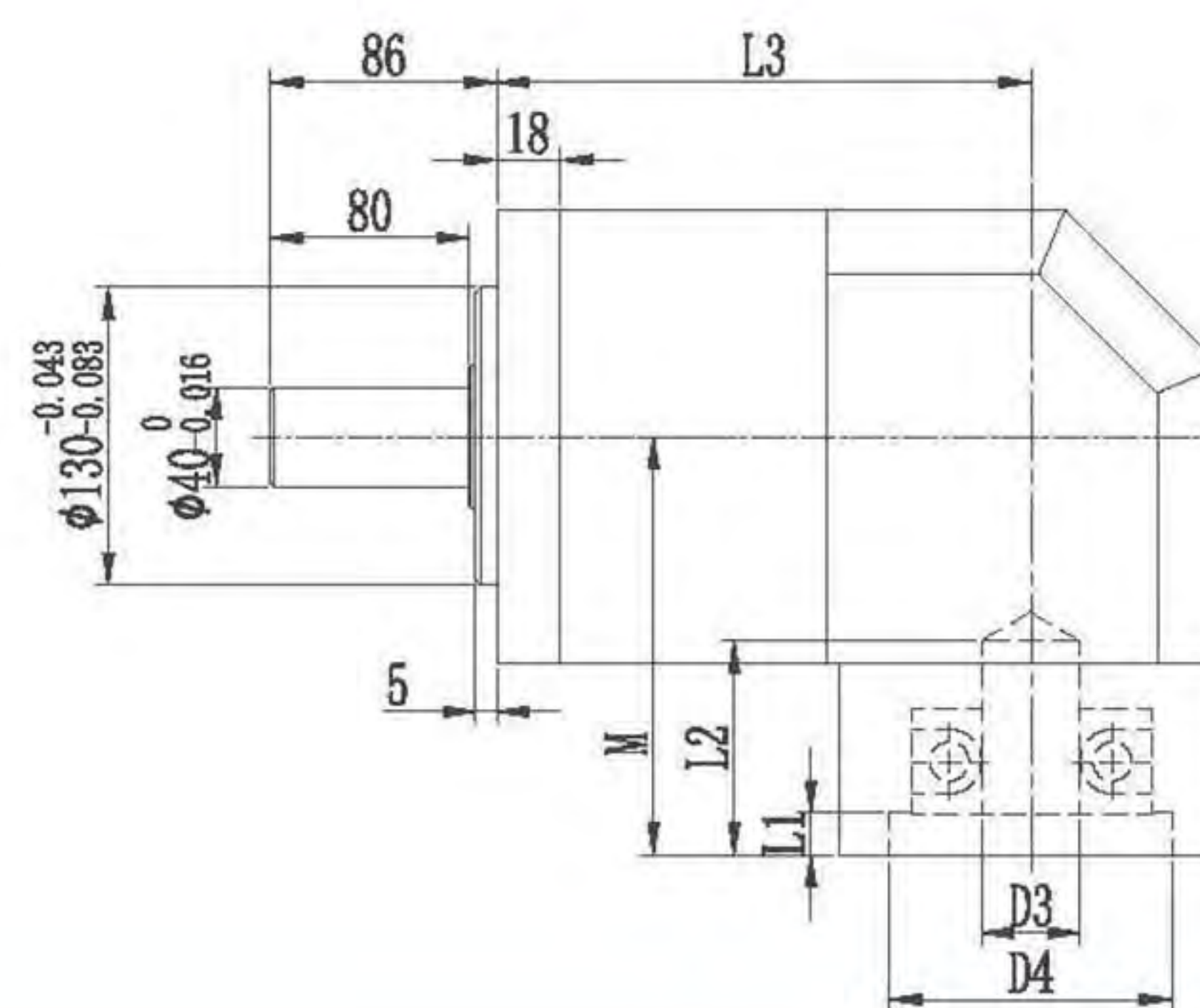
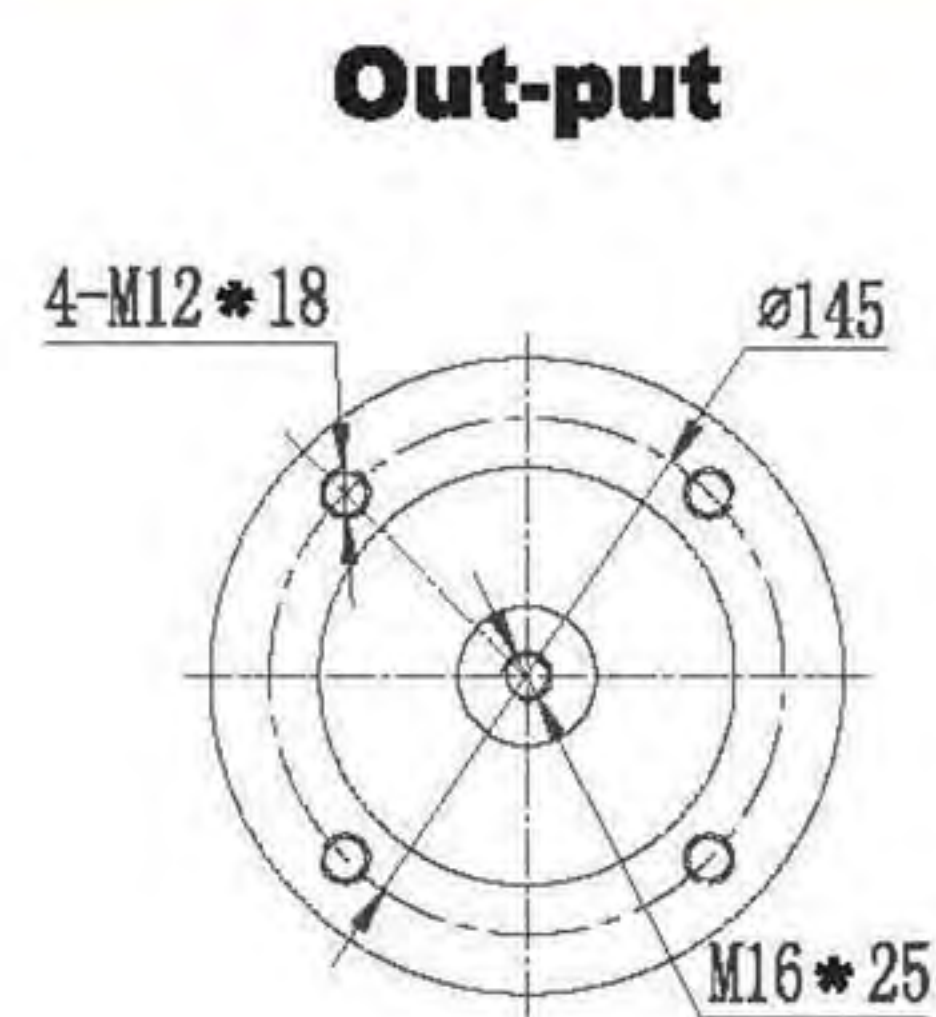


ZER160 Drawing Diemensions

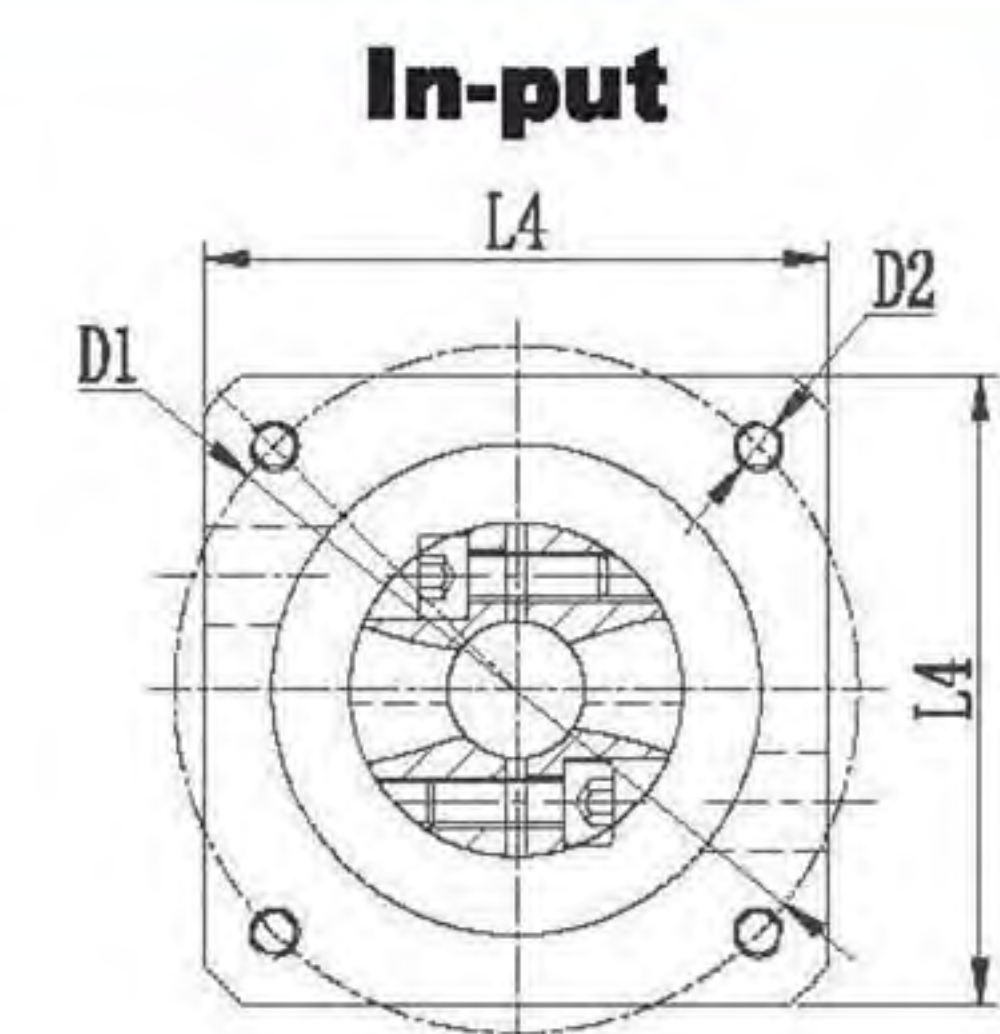
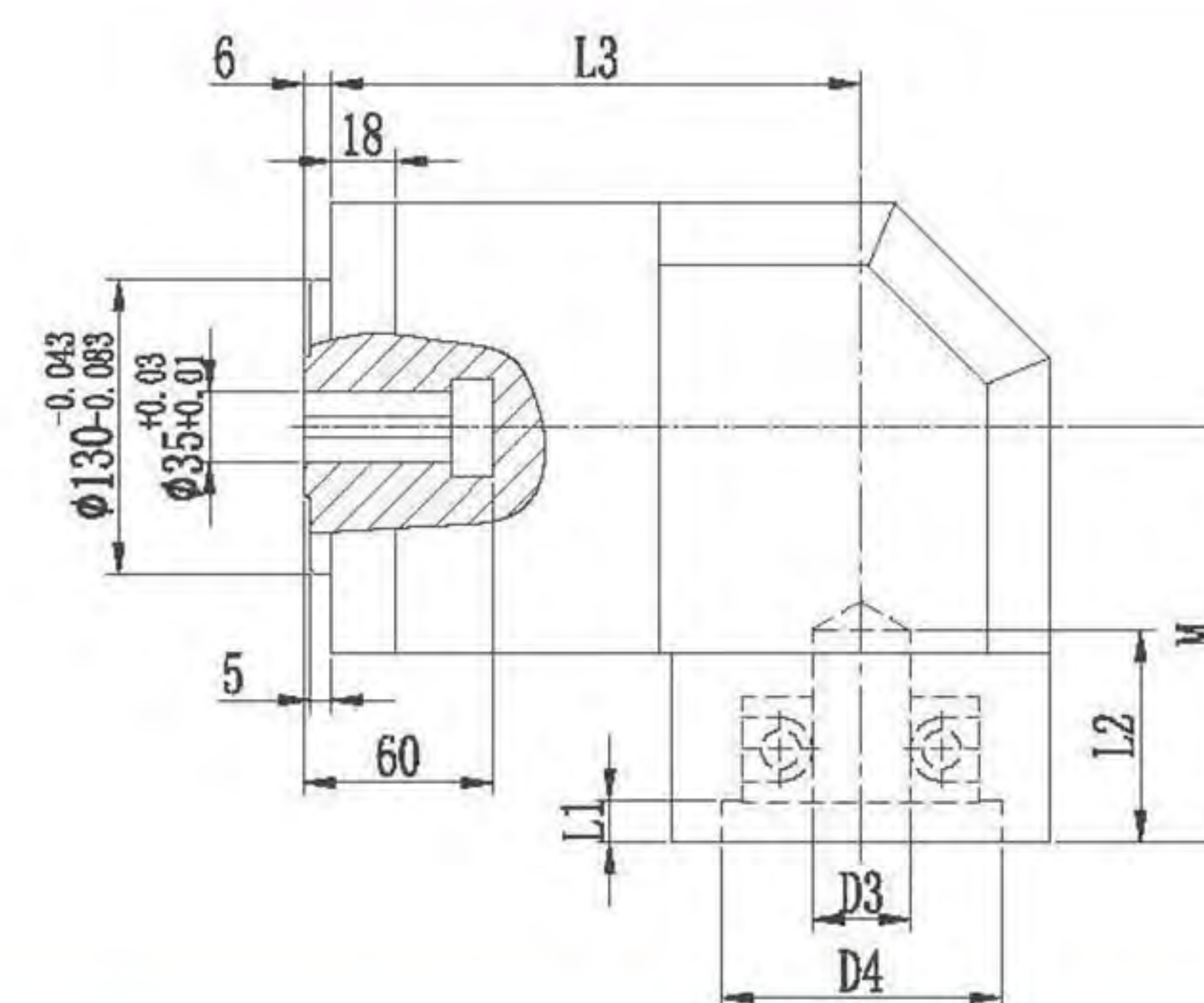
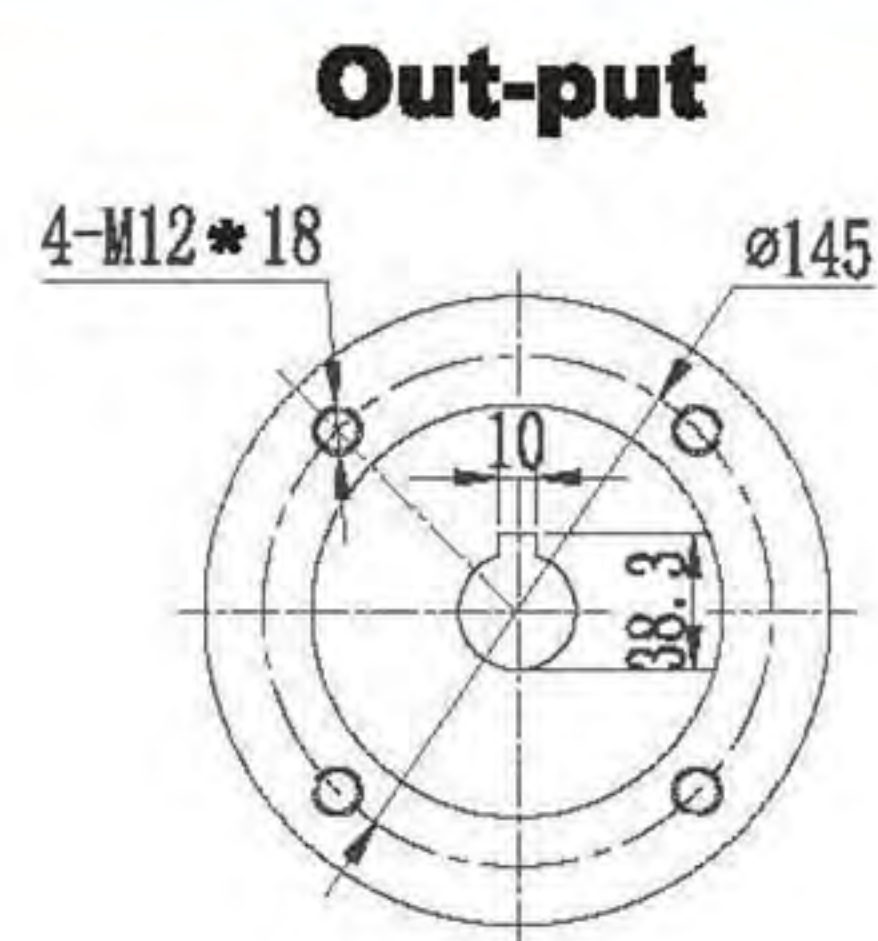
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



Motor	D1	D2	D3	L2	D4	L1	L4	M	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
2.0KW	145	4-M8	φ22(F7)	62	110(H7)	10	150	150	198	245	292
3.0/4KW	200	4-M12	φ35(F7)	82	114.3(H7)	10	180	160	198	245	292

Note:Above mentioned size based on standard product,
we are accept any others change.

ZF SERIES TECHNICAL SPECIFICATIONS

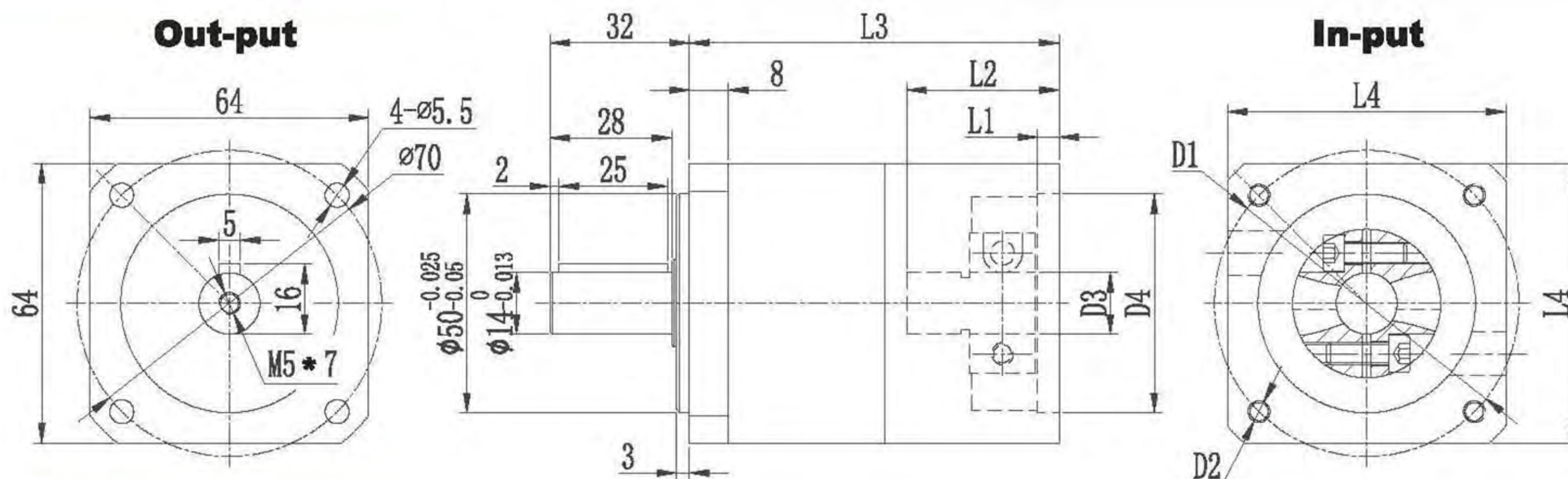
Specification	Units	Stage	Ratio	ZF60	ZF80	ZF120	ZF160
Rated Output Torque/T2N	NM	L1	3	25	50	140	310
			4	42	120	260	800
			5	40	110	240	680
			7			105	470
			8	18	40		
			10	12	20	100	200
		L2	9	42	50	140	340
			12	40	50	200	680
			15	40	50	200	680
			16	42	110	260	800
			20	42	110	260	800
			25	40	100	240	680
			28			235	800
			30	25	65	235	680
			32	45	125		
			35	40		140	590
			40	42	100	260	680
			50	23		112	340
			64	18	50		
			70			105	470
			100			105	200
		L3	60	45	110	260	800
			64	42	120	260	800
			80	42	110	260	680
			100	42	110	260	800
			120	40	110	260	800
			125	23	110	230	700
			140	25		260	800
			150	23	110	260	800
			160	45	120	260	800
			200	40	90	230	800
			250	42	110	200	680
			256	45	125		
			320	41	110		
			350			112	515
			400		90	112	515
			500		90	112	515
			512	18	55		
			700			112	515
			1000			112	200
		L4	Above 4 Stages Please Contact Us				
Backlash (arcmin)		L1		≤10	≤10	≤10	≤10
		L2		≤12	≤12	≤12	≤12
		L3		≤15	≤15	≤15	≤15
Max.Radial Force		N		265	400	1240	3700
Max.Axial Force		N		200	420	1000	3500
Emergency Stop Torque		NM		2 Times Rated Torque			
Effiency (η)		L1		96%			
		L2		94%			
		L3		90%			
Rated Input Speed(rpm)				3500	3500	3000	2000
Max.Input Speed(rpm)				7000	6000	5000	3500
GWT (kg)		L1		1.3	2.2	8	20
		L2		1.5	2.8	9.5	26
		L3		1.8	3.4	11.5	32
Service Life		h		20000 Hrs			
Noise		dB		≤58	≤62	≤65	≤65
Lubrication				Whole-life Free Service(Synthetic Complex Soap Grease)			
Operating Temperature				-10℃~+90℃ (Beyond Temperature Please Contact Us)			
Mounting				Any Position			
Protect Class				IP65			

1. About L1 specifications major are measured on 5 : 1 gear ratio.
2. Ratios; (I = N_{in} /Out)
3. Backlash : Measured on 2% of nominal output torque.
4. Max. Radial and Axial Load; Applied to the output shaft center, and 50% of duty time,and at 100rpm.
5. Duty Cycle < 60%, Average Lifetime = List value; Duty Cycle >= 60%, Average Lifetime < 50% List value.
6. Noise Level; Distance 1m, and measured on Idle running, and at nominal input speed.

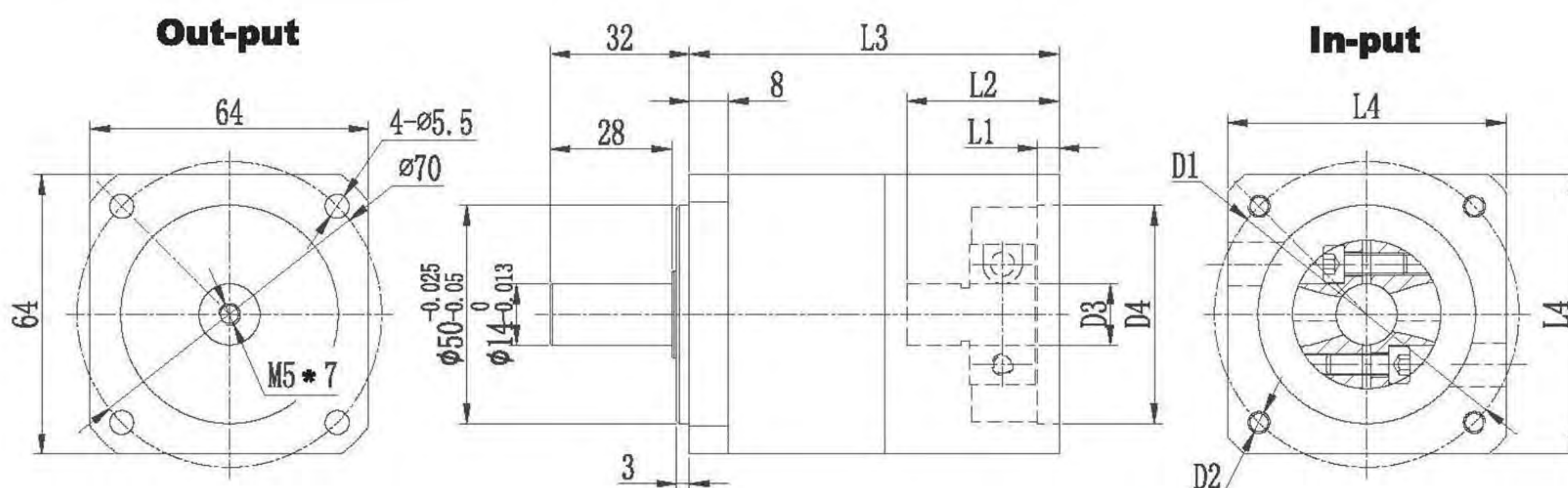


ZF 60 Drawing Diemensions

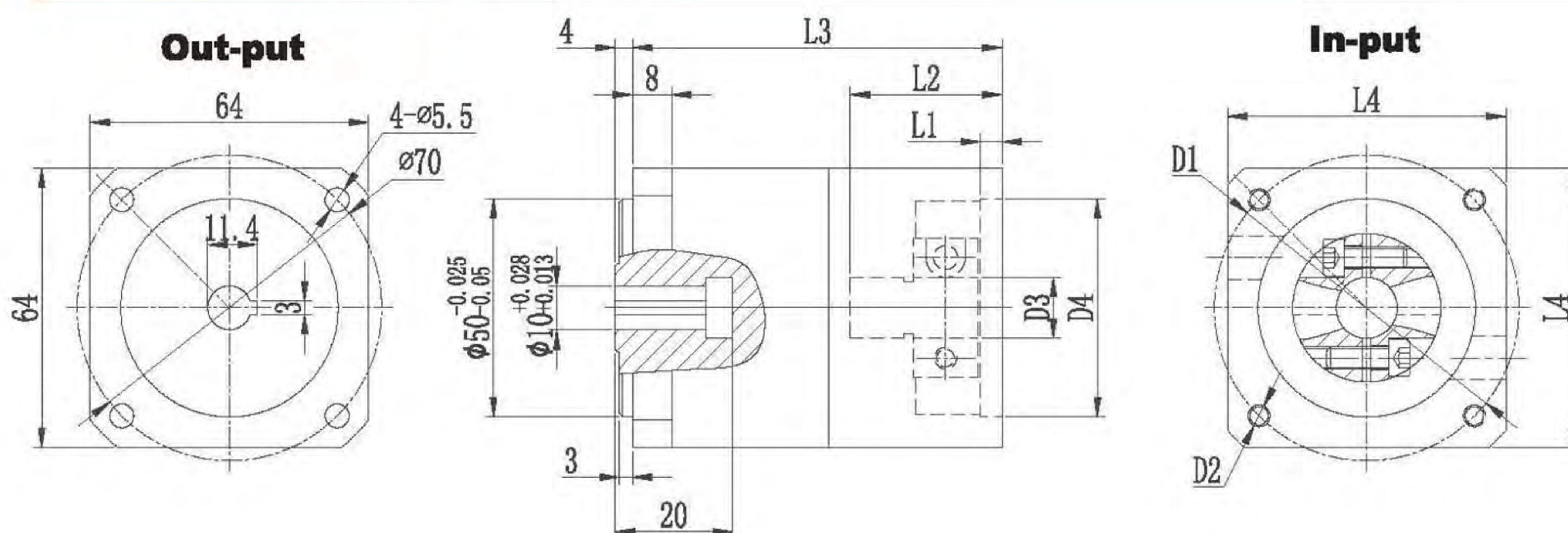
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



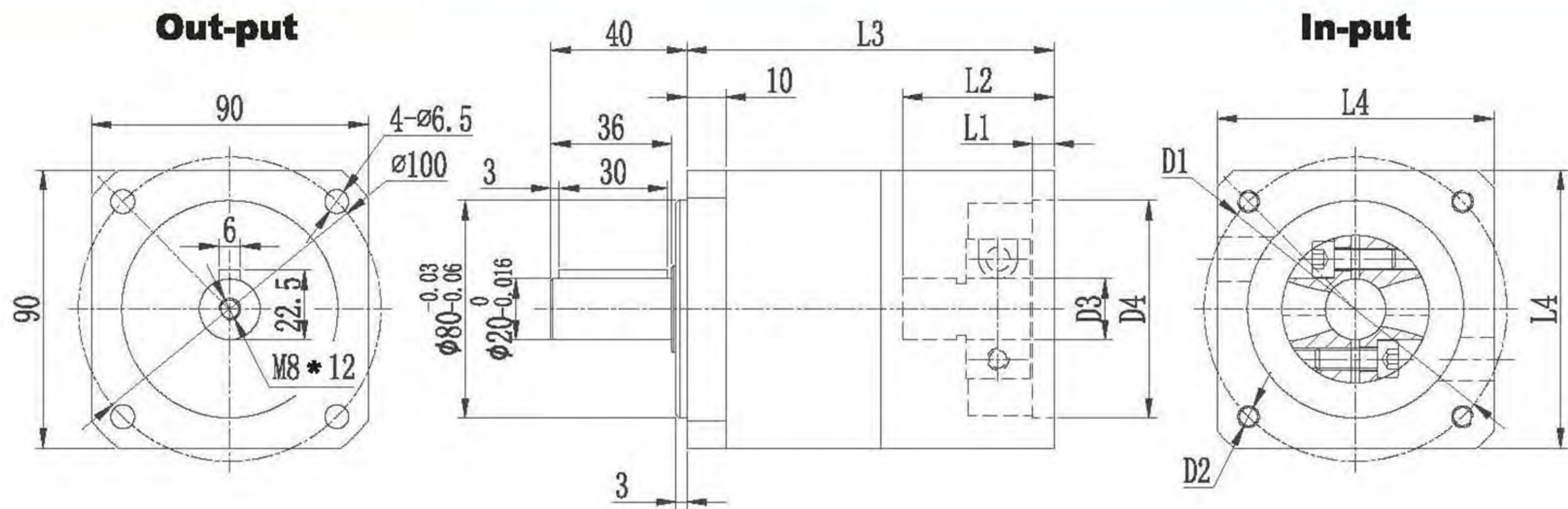
Motor	D1	D2	D3	L2	D4	L1	L4	L1 (Stage 1)	L2 (Stage 2)	L3 (Stage 3)
0.2KW	70	4-M4/M5	$\phi 11$ (F7)	35	$\phi 50$ (F7)	5	64	94	113	132
0.4KW	70	4-M4/M5	$\phi 14$ (F7)	35	$\phi 50$ (F7)	5	64	94	113	132

Note: Above mentioned size based on standard product, we are accept any others change.

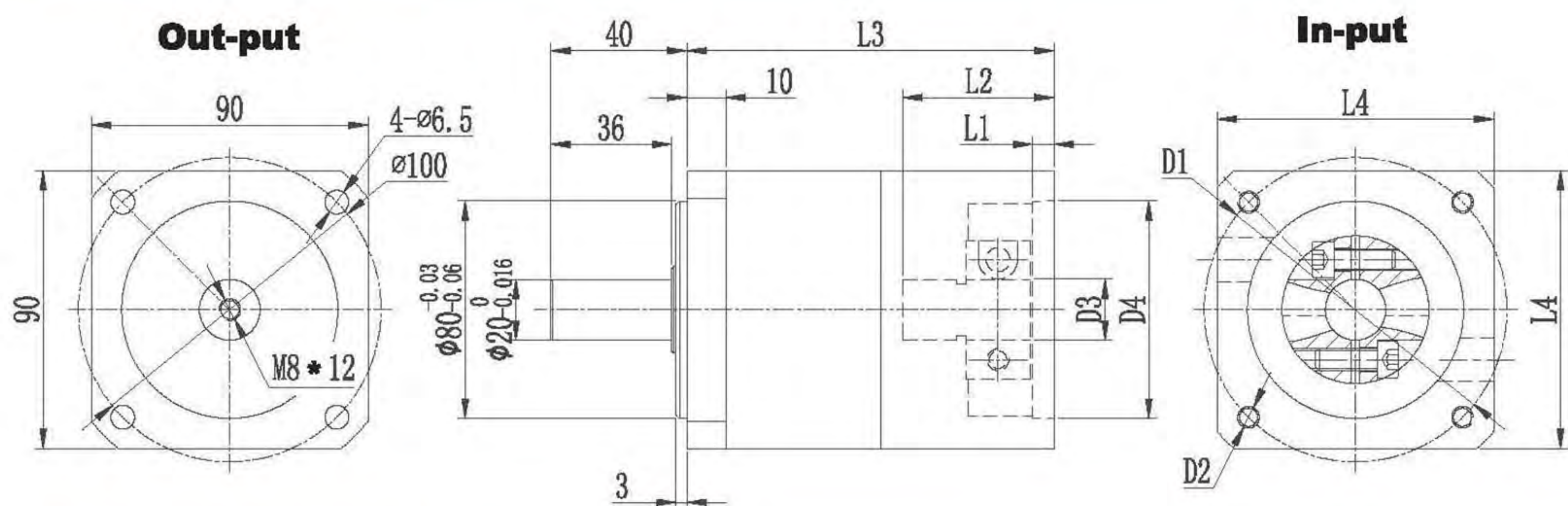
ZF 80 Drawing Diemensions



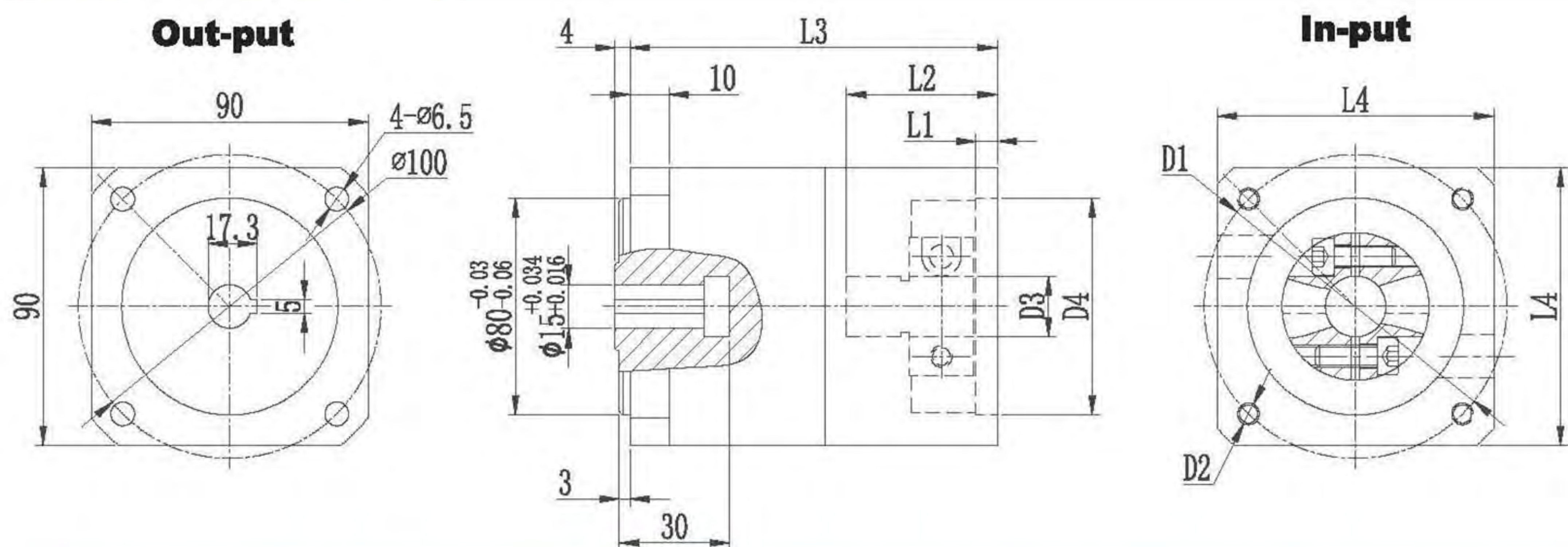
S2(Shaft with key-way)



S1 (Shaft)



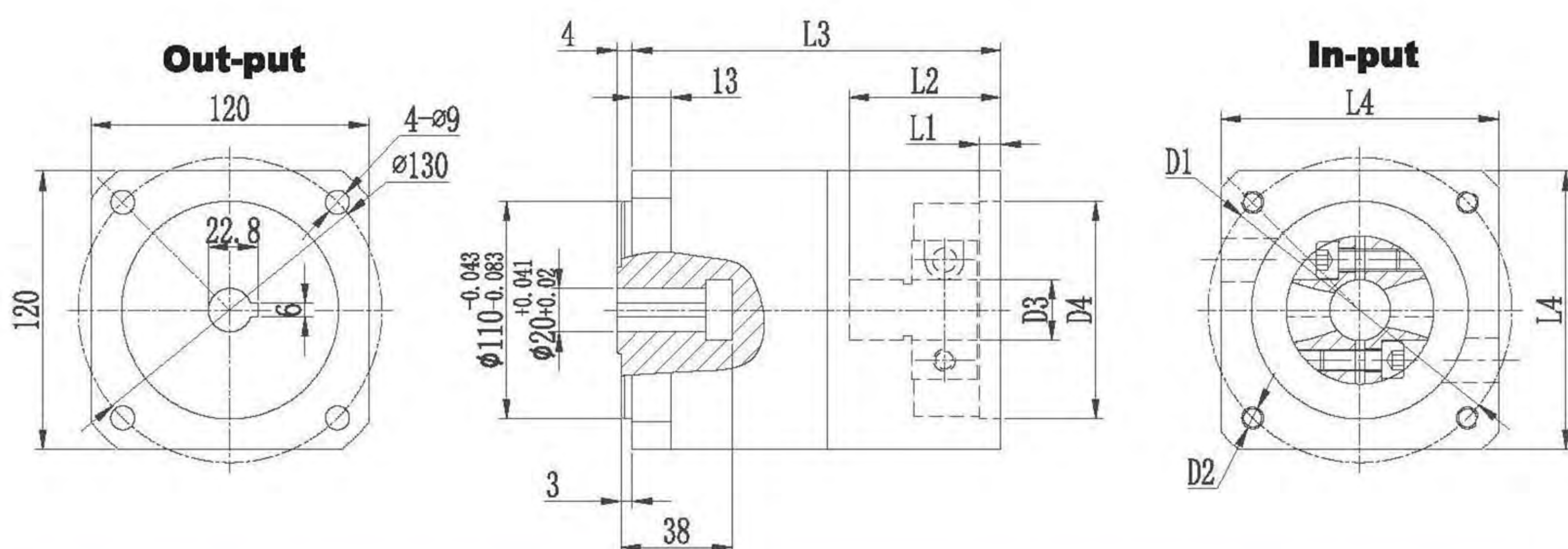
S3 (Hollow Shaft)



Motor	D1	D2	D3	L2	D4	L1	L4	L1 (Stage 1)	L2 (Stage 2)	L3 (Stage 3)
0.4KW	70	4-M4	$\phi 14$ (F7)	45	50 (F7)	5	85	100	120	139
0.75KW	90	4-M5	$\phi 19$ (F7)	45	70 (F7)	5	85	100	120	139

Note: Above mentioned size based on standard product, we are accept any others change.

S2(Shaft with key-way)



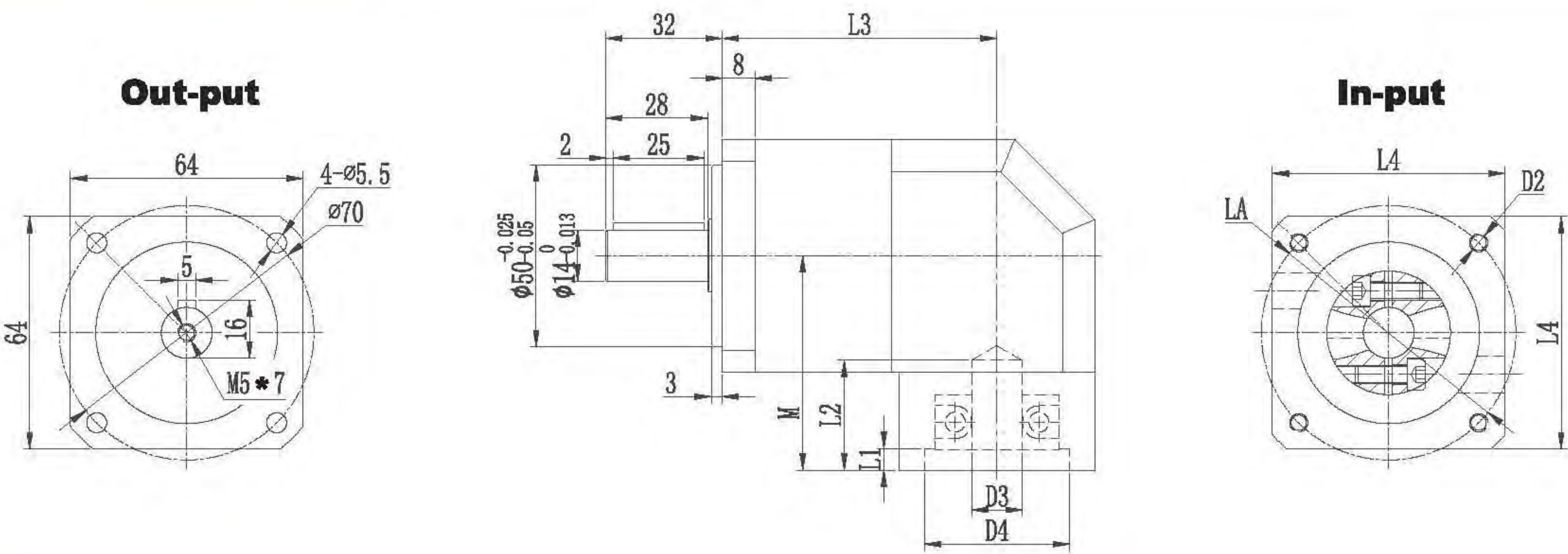
Note: Above mentioned size based on standard product, we are accept any others change.

ZFR SERIES TECHNICAL SPECIFICATIONS									
Specification	Units	Stage	Ratio	ZFR60	ZFR80	ZFR120	ZFR160		
Rated Output Torque/ T_{2N}	NM	L1	3	25	50	140	310		
			4	42	120	260	800		
			5	40	110	240	680		
			7			105	470		
			8	18	40				
			10	12	20	100	200		
		L2	9	42	50	140	340		
			12	40	50	200	680		
			15	40	50	200	680		
			16	42	110	260	800		
			20	42	110	260	800		
			25	40	100	240	680		
			28			235	800		
			30	25	65	235	680		
			32	45	125				
			35	40		140	590		
			40	42	100	260	680		
			50	23		112	340		
			64	18	50				
			70			105	470		
			100			105	200		
			L3	60	45	110	260	800	
		64		42	120	260	800		
		80		42	110	260	680		
		100		42	110	260	800		
		120		40	110	260	800		
		125		23	110	230	700		
		140		25		260	800		
		150		23	110	260	800		
		160		45	120	260	800		
		200		40	90	230	800		
		250		42	110	200	680		
		256		45	125				
		320		41	110				
		350				112	515		
		400			90	112	515		
		500			90	112	515		
		512		18	55				
		700				112	515		
		1000				112	200		
		L4	Above 4 Stages Please Contact Us						
		Backlash (arcmin)			L1	≤10	≤10	≤10	≤10
					L2	≤12	≤12	≤12	≤12
					L3	≤15	≤15	≤15	≤15
		Max.Radial Force			N	265	400	1240	3700
		Max.Axial Force			N	200	420	1000	3500
		Emergency Stop Torque			NM	2 Times Rated Torque			
Effiency (η)			L1	96%					
			L2	94%					
			L3	90%					
Rated Input Speed(rpm)				3500	3500	3000	2000		
Max.Input Speed(rpm)				7000	6000	5000	3500		
GWT (kg)			L1	1.7	4.35	10	22		
			L2	2.2	4.9	13	27		
			L3	3	5.7	15	32		
Service Life			h	20000 Hrs					
Noise			dB	≤65	≤65	≤65	≤65		
Lubrication				Whole-life Free Service(Synthetic Complex Soap Grease)					
Operating Temperature				'-10°C--+90°C (Beyond Temperature Please Contact Us)					
Mounting				Any Position					
Protect Class				IP65					
1. About L1 specifications major are measured on 5 : 1 gear ratio.									
2. Ratios; ($i = N_{in} / N_{out}$)									
3. Backlash : Measured on 2% of nominal output torque.									
4. Max. Radial and Axial Load; Applied to the output shaft center, and 50% of duty time,and at 100rpm.									
5. Duty Cycle < 60%, Average Lifetime = List value; Duty Cycle >= 60%, Average Lifetime < 50% List value.									
6. Noise Level; Distance 1m, and measured on idle running, and at nominal input speed.									

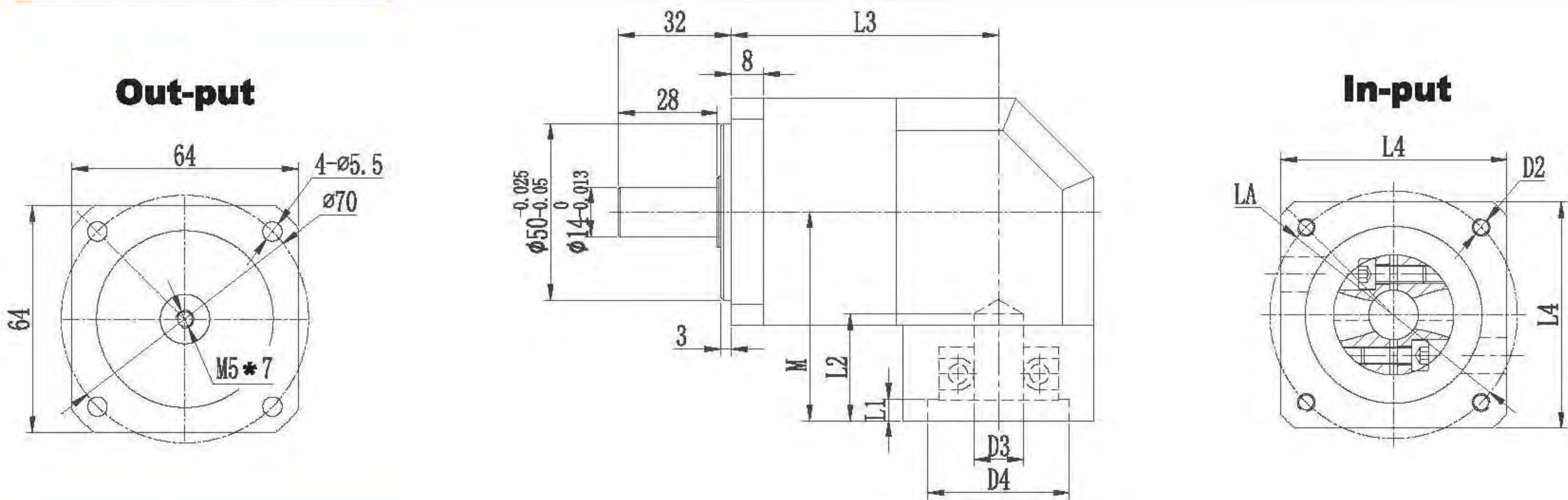


ZFR 60 Drawing Diemensions

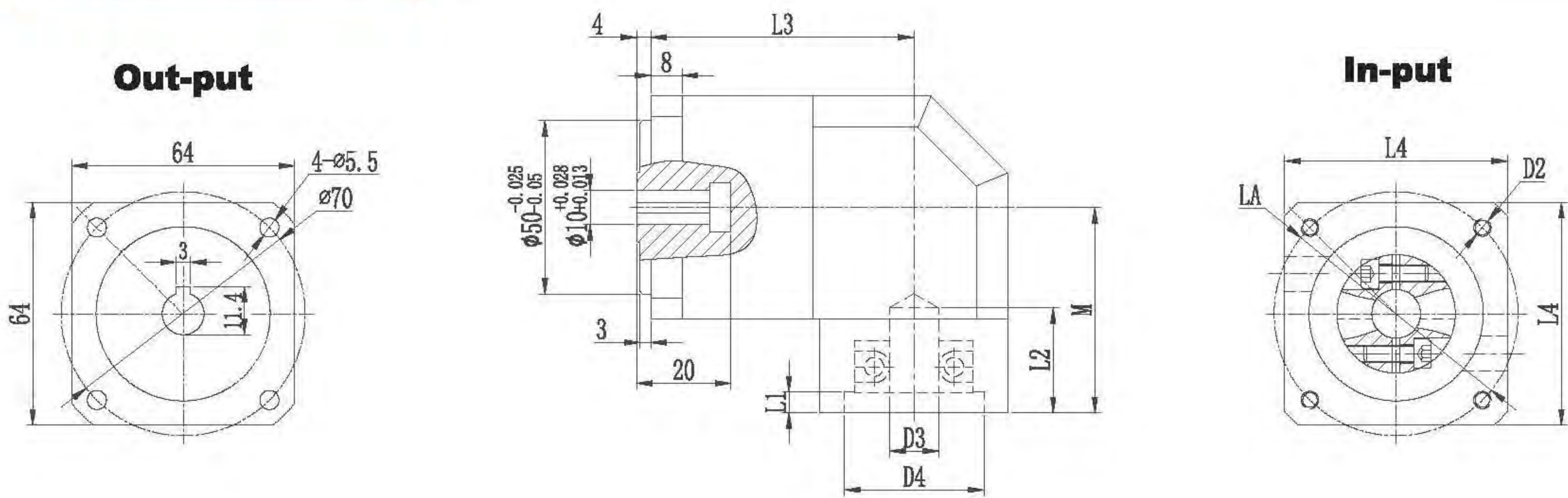
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



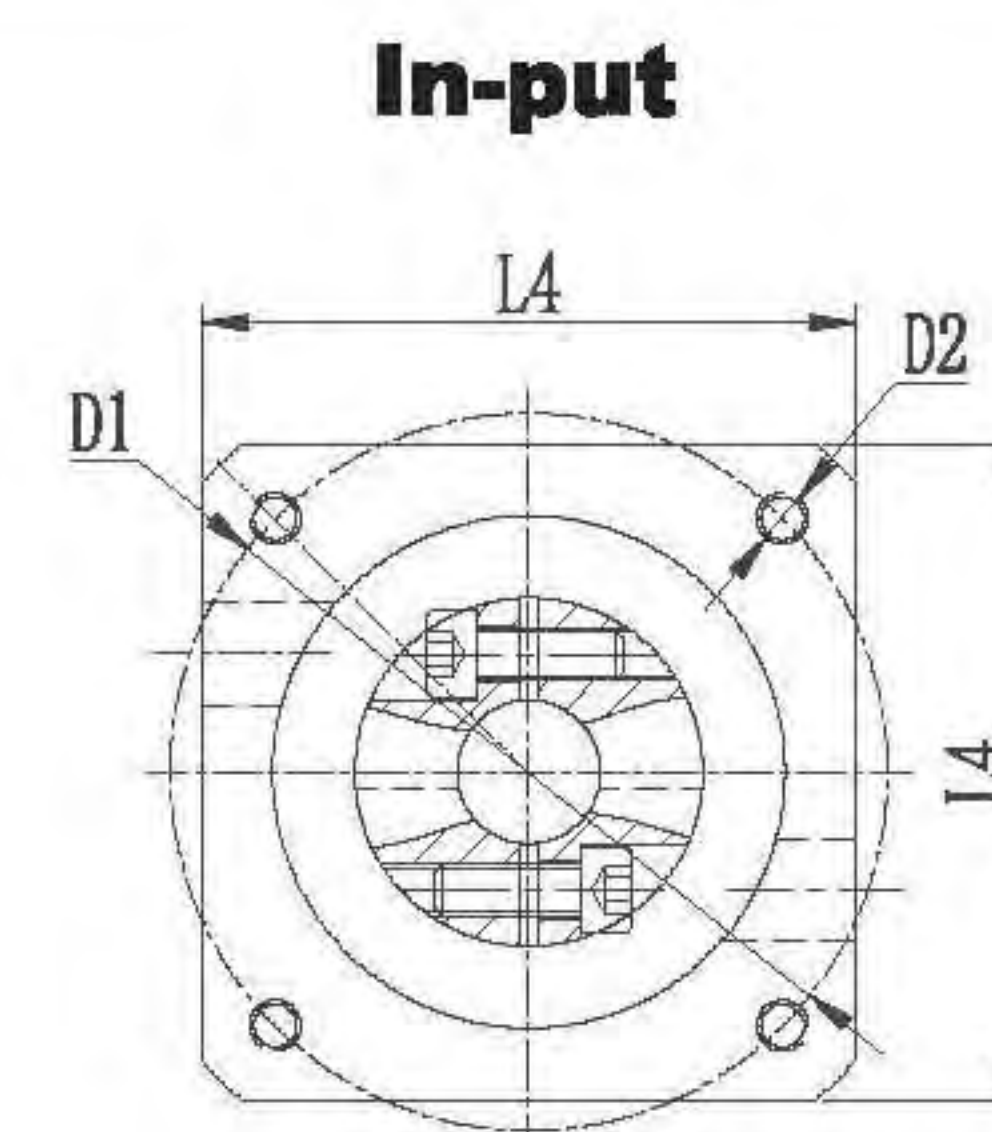
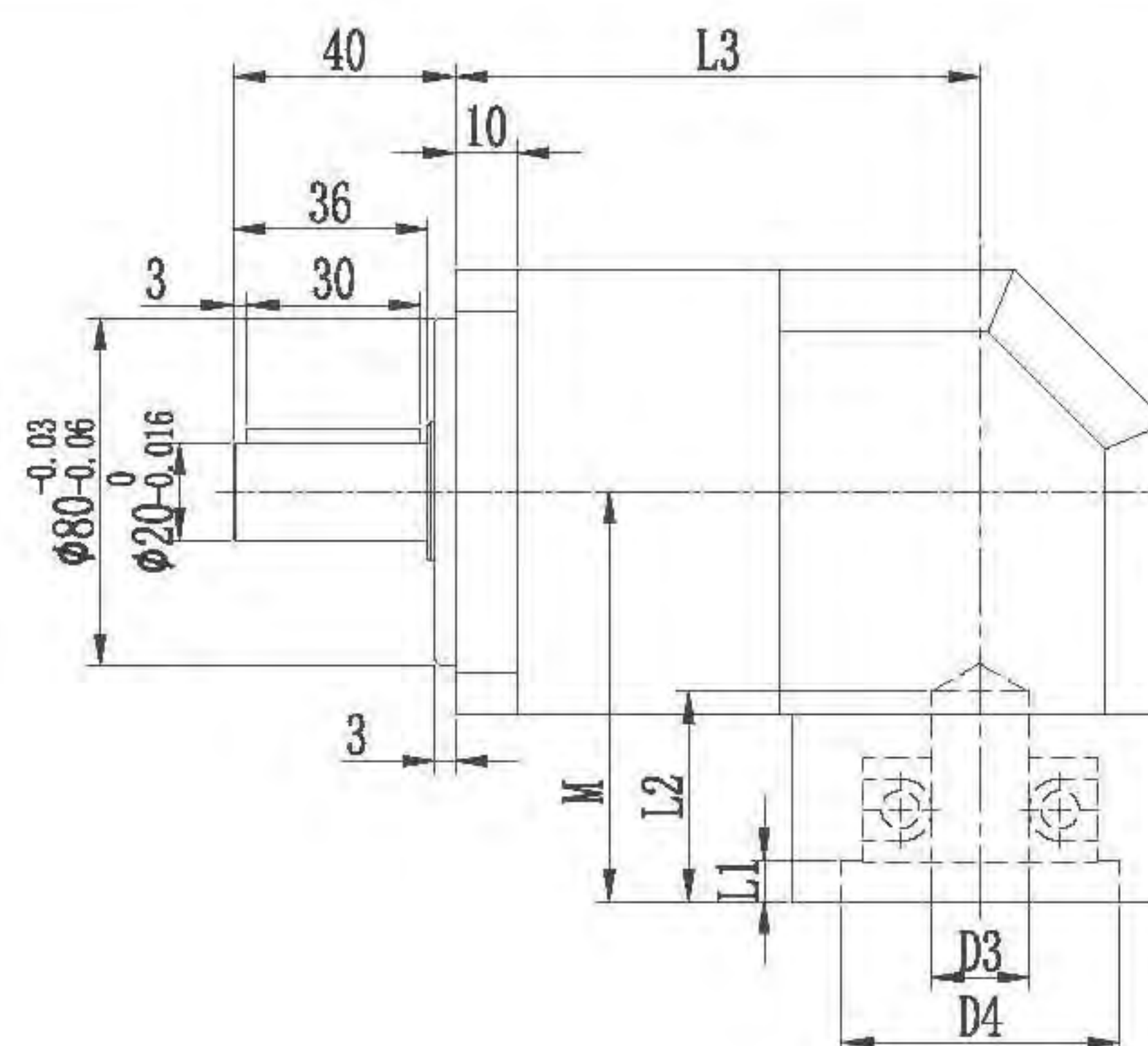
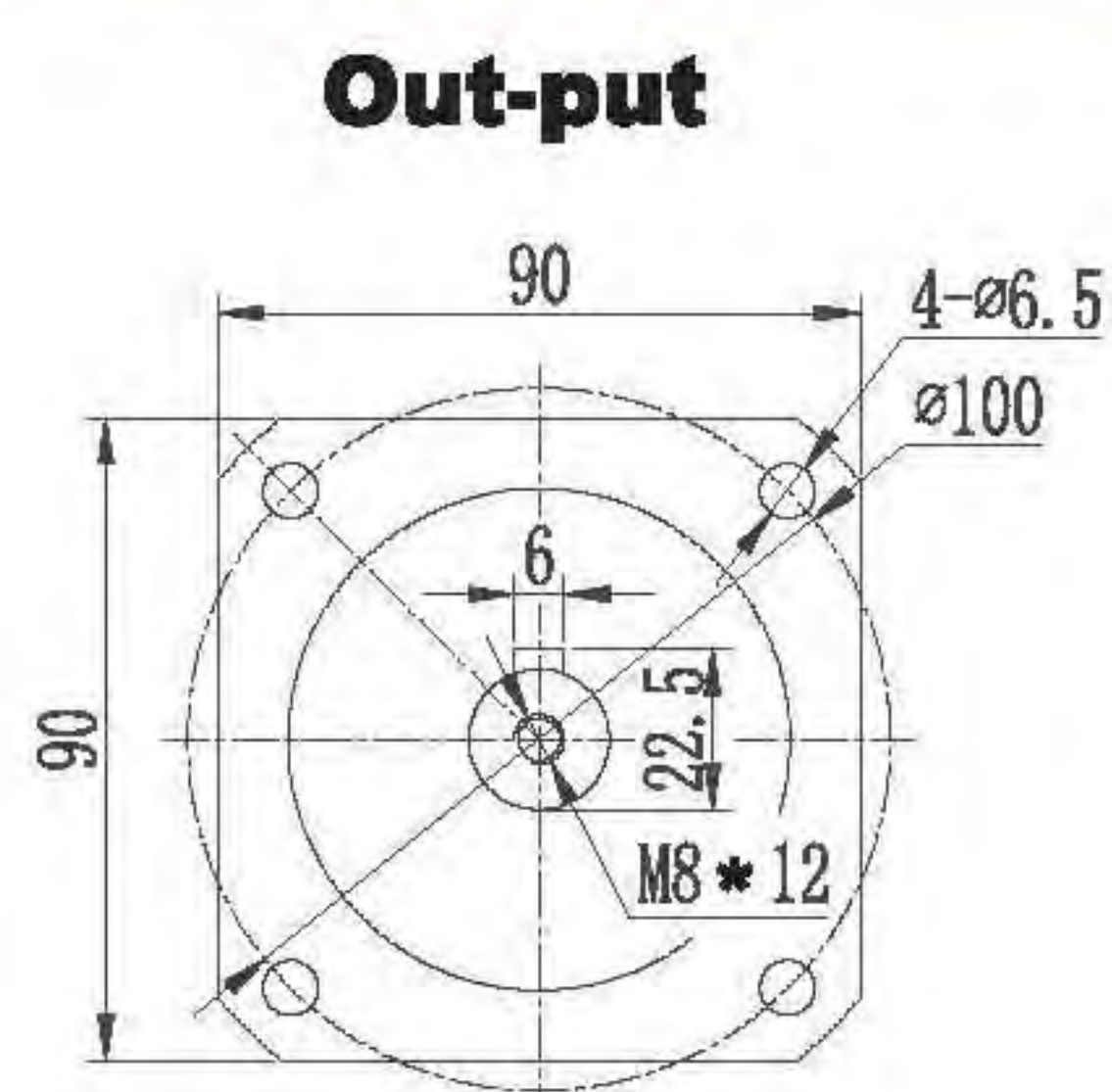
Motor	D1	D2	D3	L2	D4	L1	L4	M	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
0.2KW	70	4-M4/M5	ø11 (F7)	35	ø50 (H7)	5	64	72	96	114	131
0.4KW	70	4-M4/M5	ø14 (F7)	35	ø50 (H7)	5	64	72	96	114	131

Note:Above mentioned size based on standard product,
we are accept any others change.

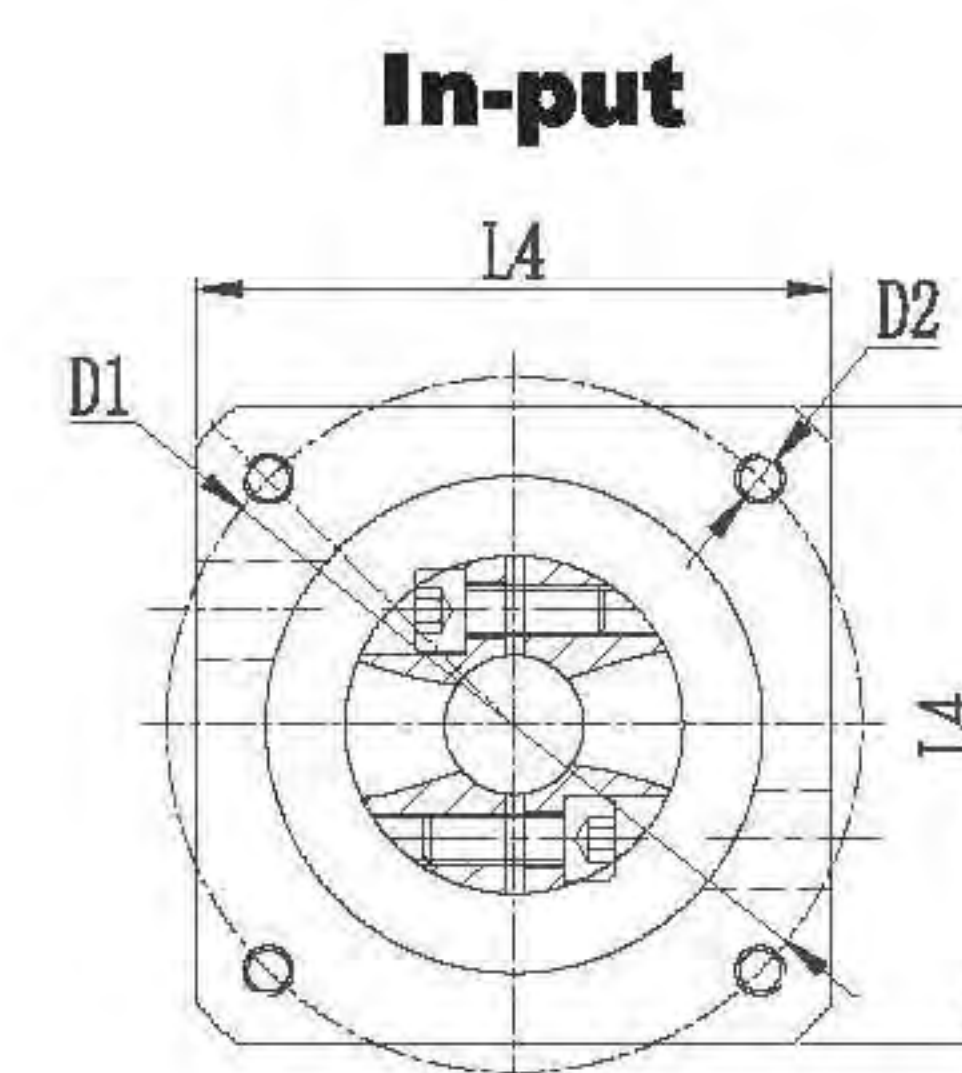
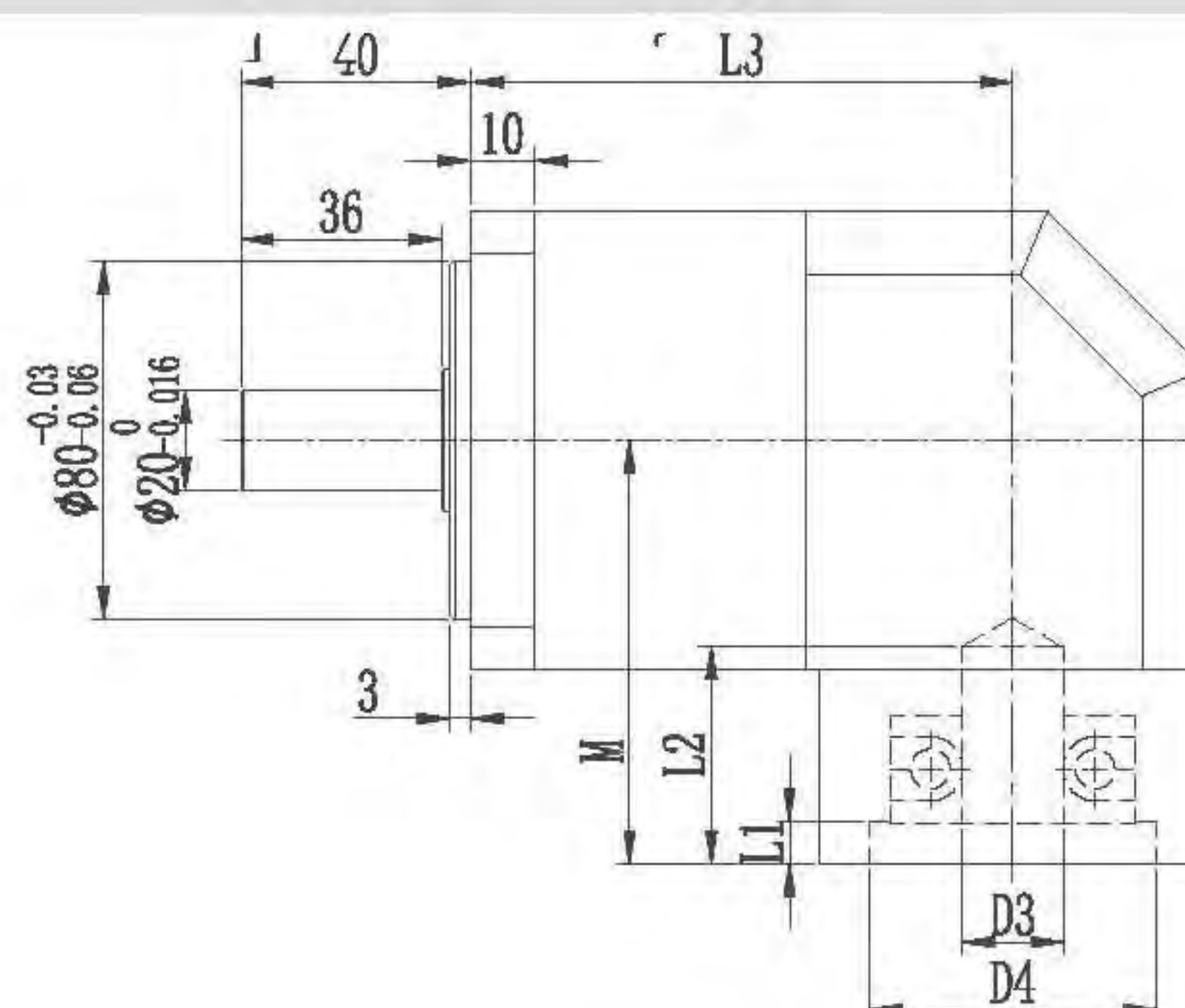
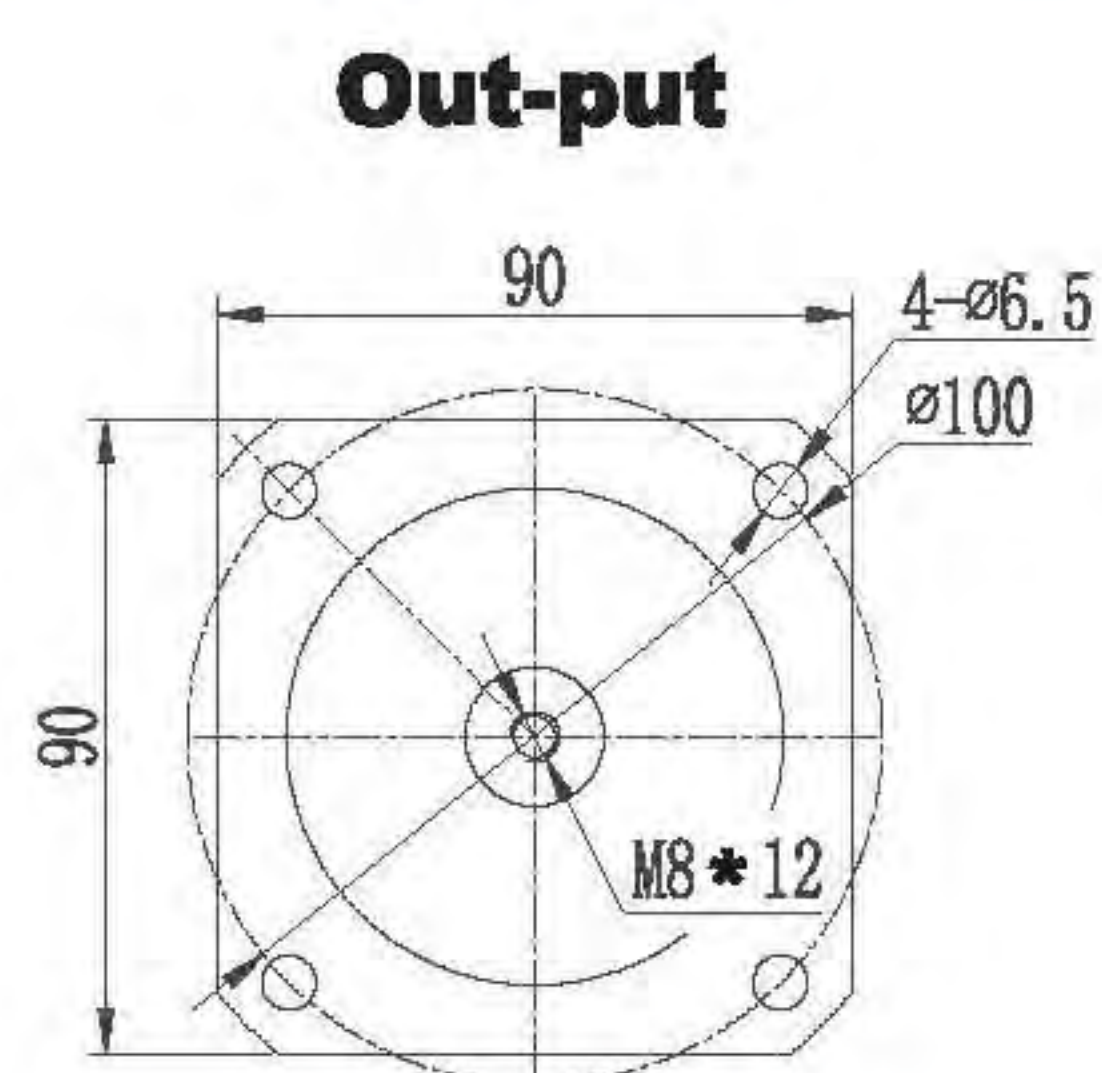


ZFR 80 Drawing Diemensions

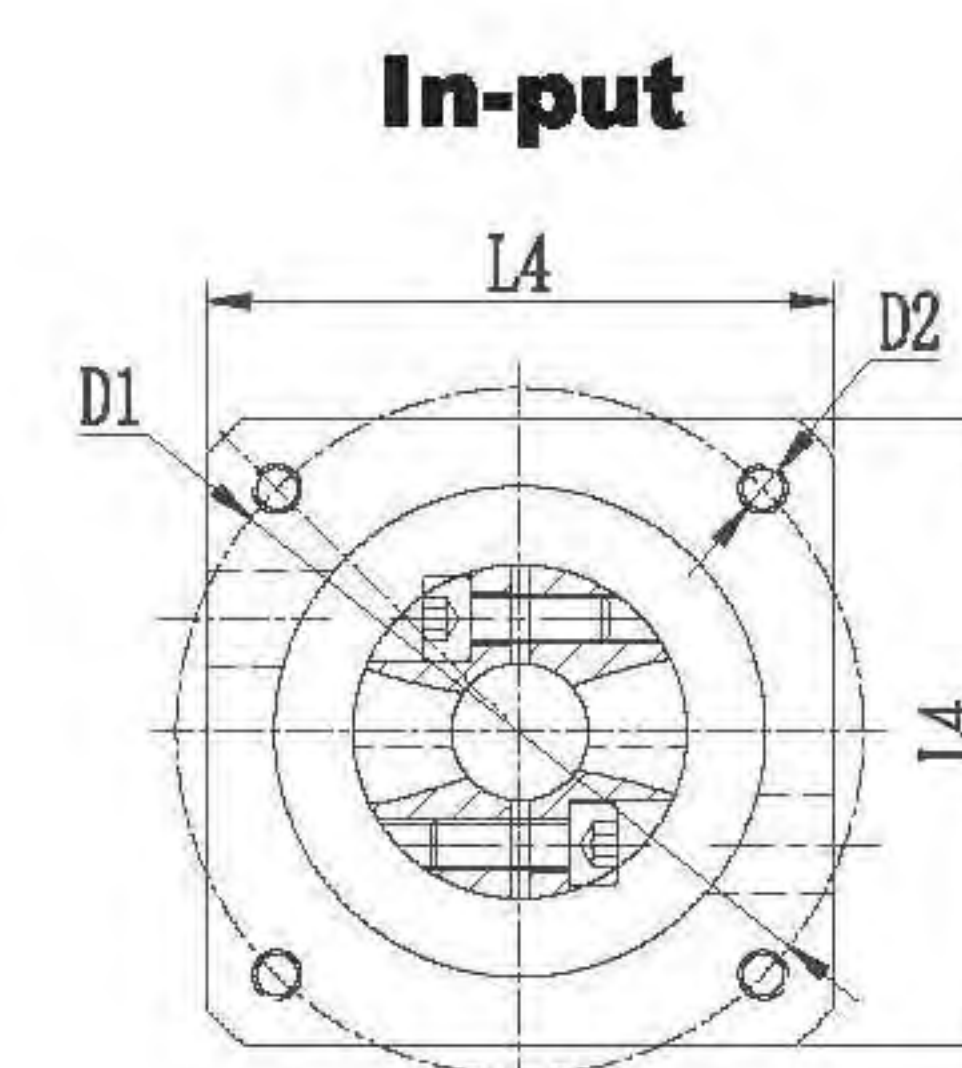
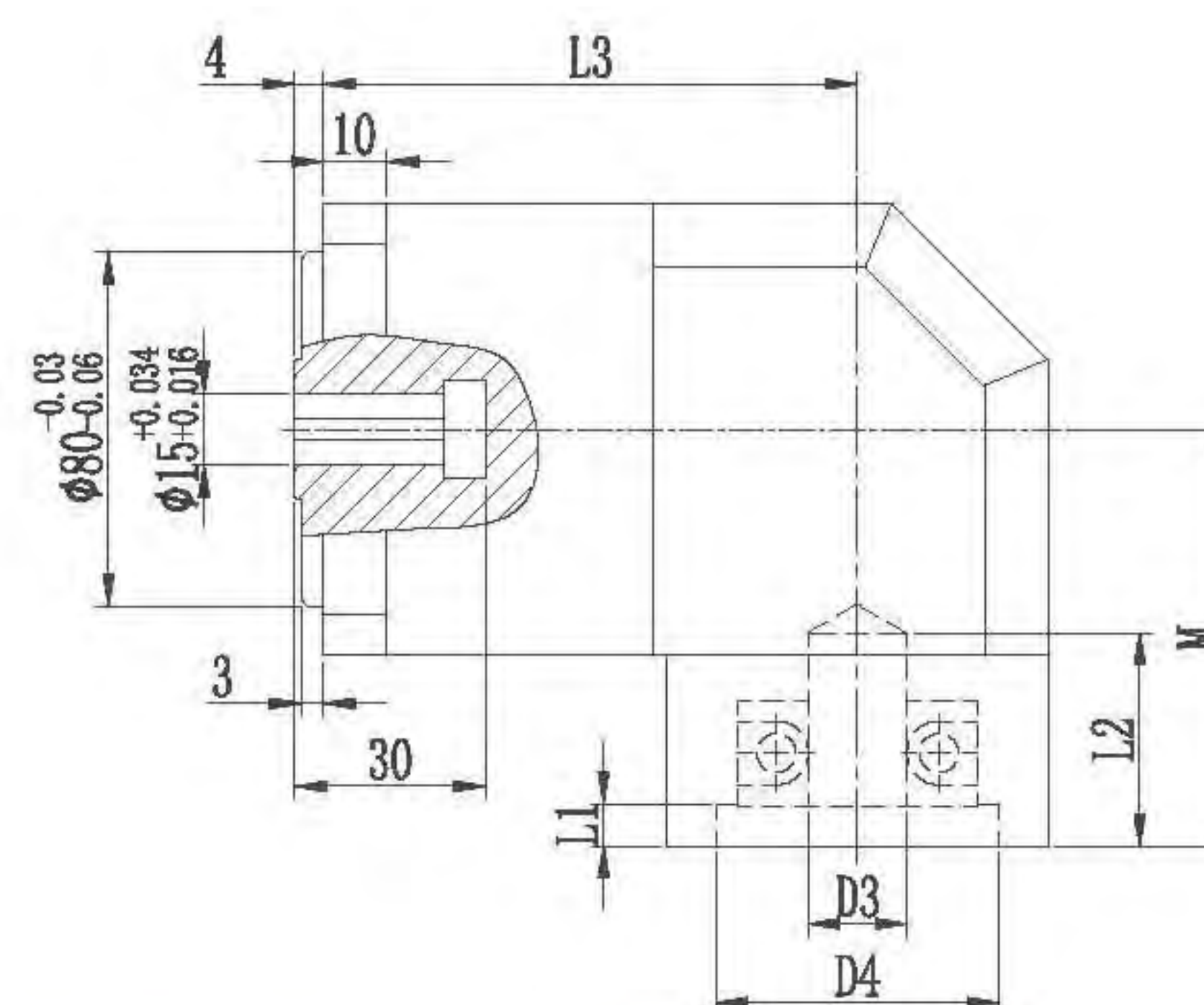
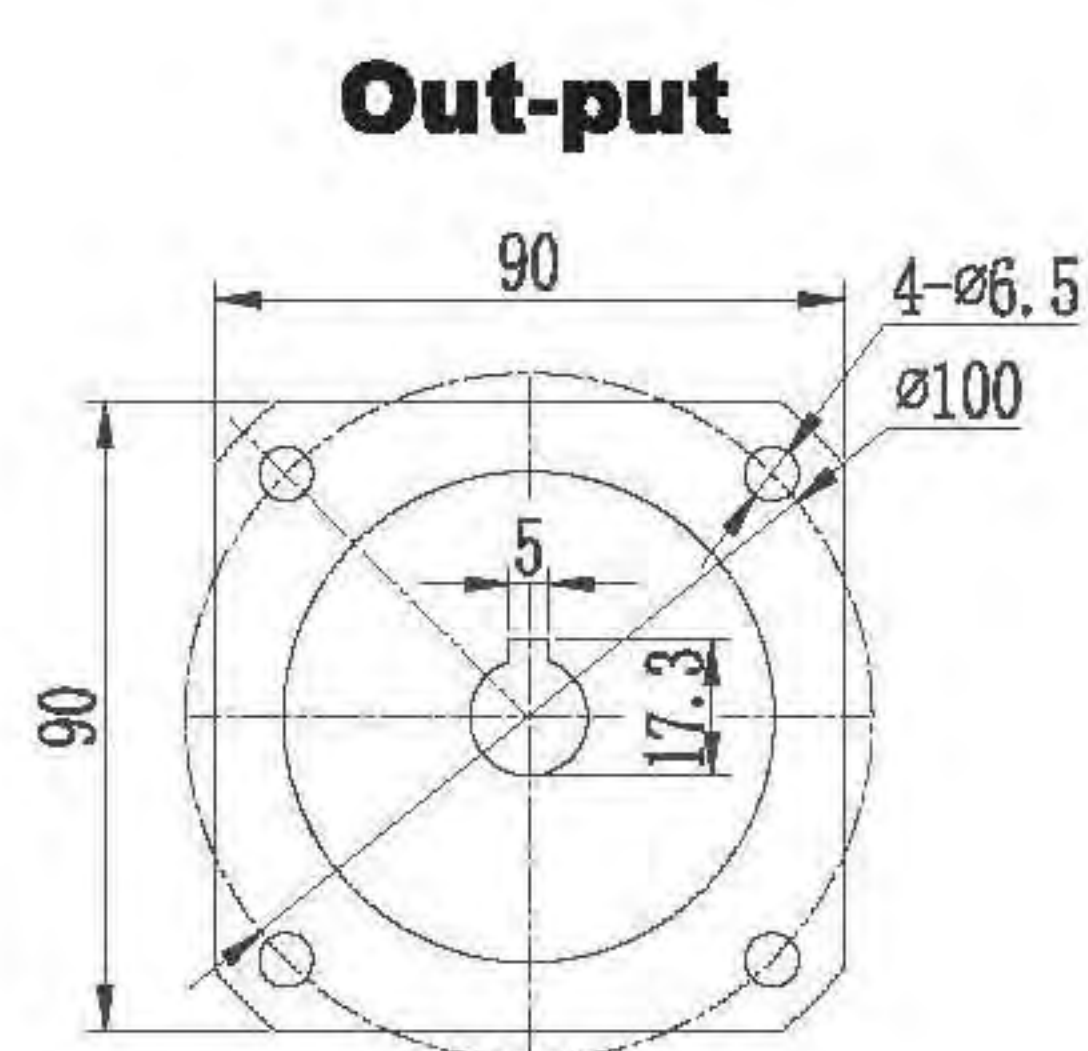
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



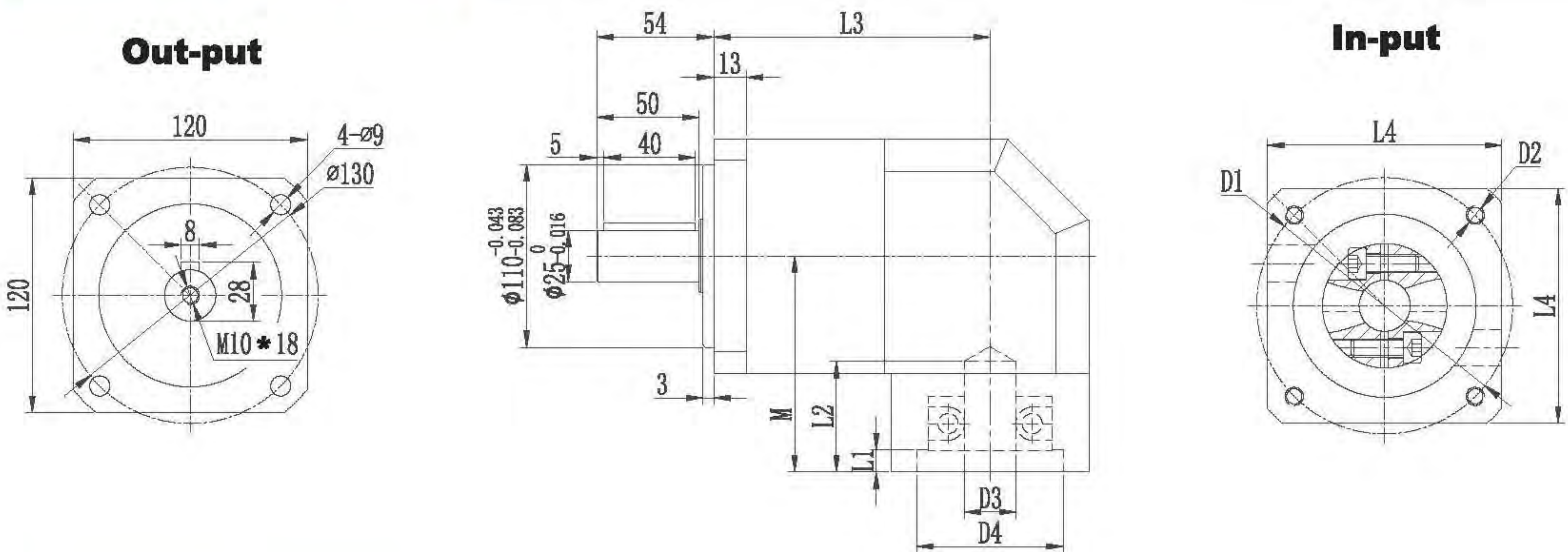
Motor	D1	D2	D3	L2	D4	L1	L4	M	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
0.4KW	70	4-M4/M5	φ14(F7)	45	50(H7)	5	85	143	119	137	155
0.75KW	90	4-M5/M6	φ19(F7)	45	70(H7)	5	85	143	119	137	155

Note:Above mentioned size based on standard product,
we are accept any others change.

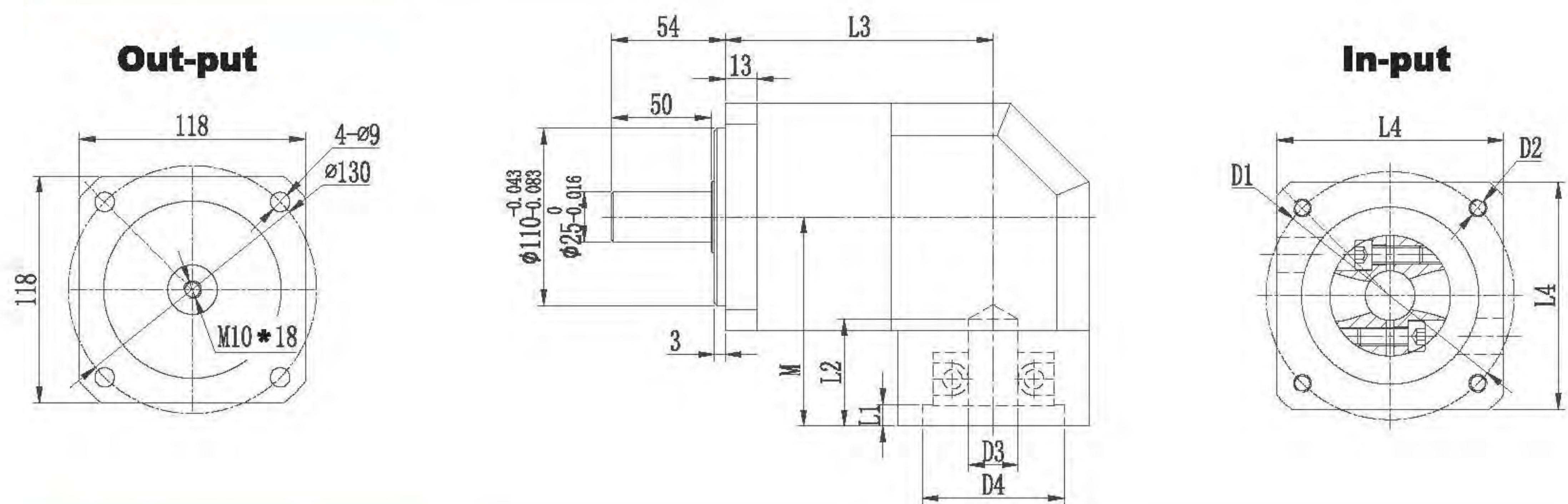


ZFR 120 Drawing Diemensions

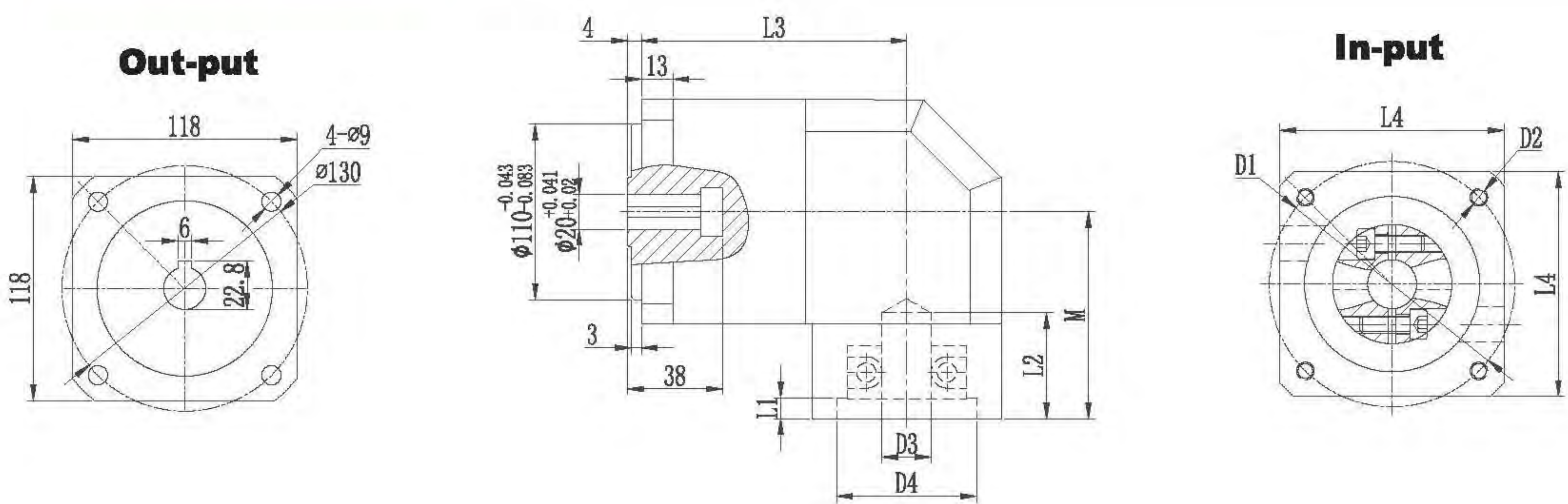
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



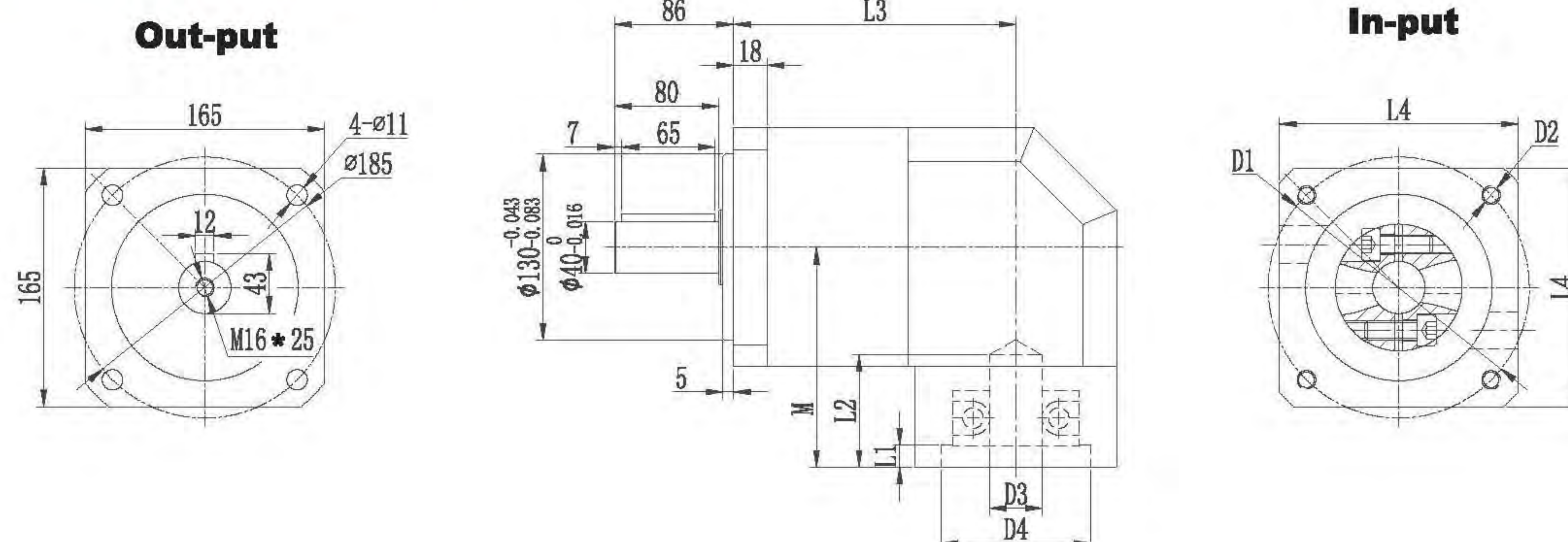
Motor	D1	D2	D3	L2	D4	L1	L4	M	L1(Stage 1)	L2(Stage 2)	L3(Stage 3)
0.75KW	90	4-M6	$\varnothing 19$ (F7)	54	$\varnothing 70$ (H7)	10	130	114	151	183	215
1KW/1.5KW	145/130	4-M8	$\varnothing 22/24$ (F7)	64	$\varnothing 110$ (H7)	10	130	124	151	183	215

Note:Above mentioned size based on standard product,
we are accept any others change.

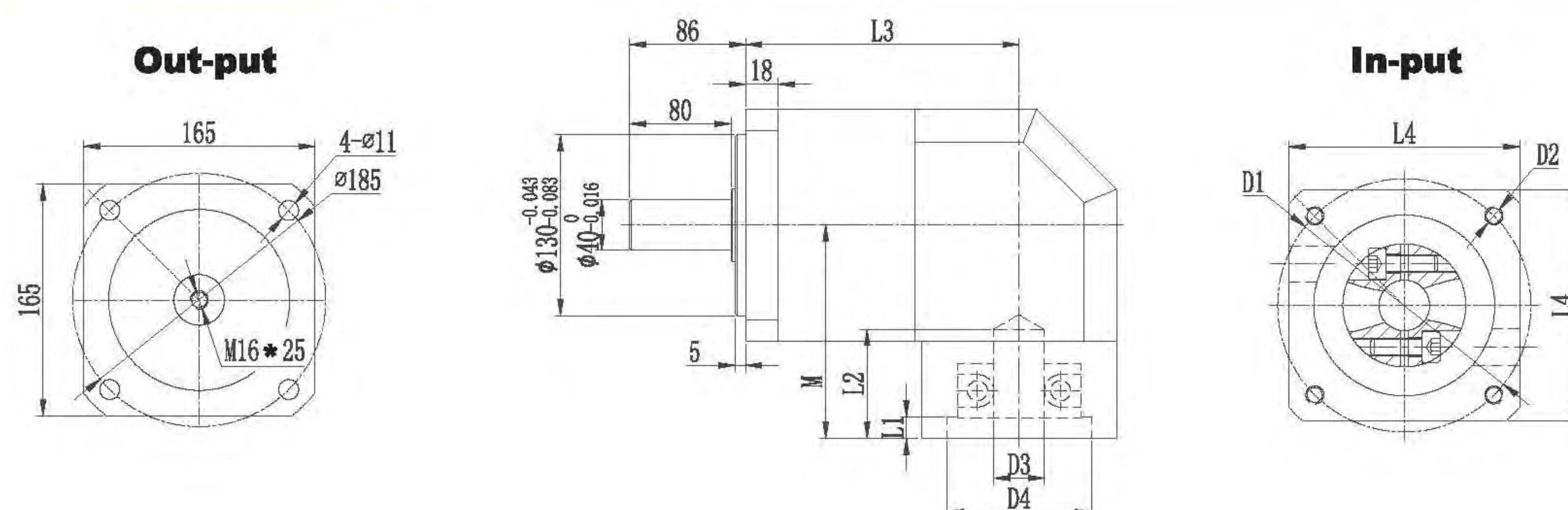
ZFR 160 Drawing Diemensions



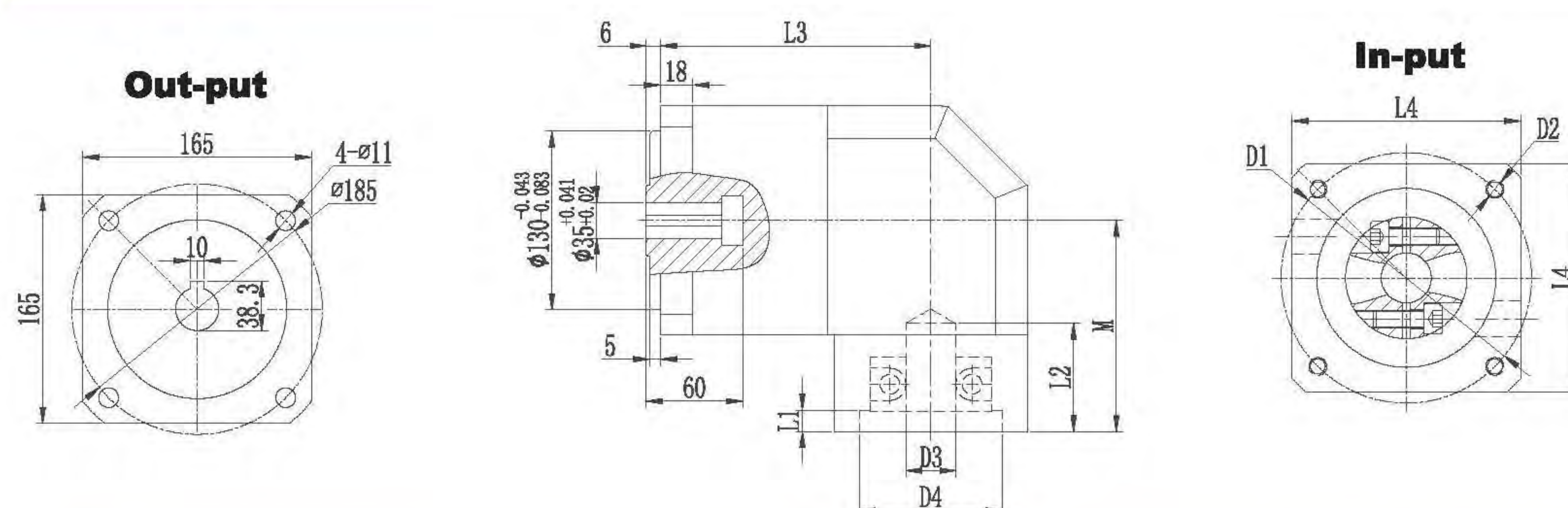
S2(Shaft with key-way)



S1 (Shaft)



S3 (Hollow Shaft)



Motor	D1	D2	D3	L2	D4	L1	L4	M	L1 (Stage 1)	L2 (Stage 2)	L3 (Stage 3)
2.0KW	145	4-M8	$\phi 22$ (F7)	62	110 (H7)	10	150	150	198	245	292
3.0/4KW	200	4-M12	$\phi 35$ (F7)	82	114.3 (H7)	10	180	160	198	245	292

Note: Above mentioned size based on standard product, we are accept any others change.

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