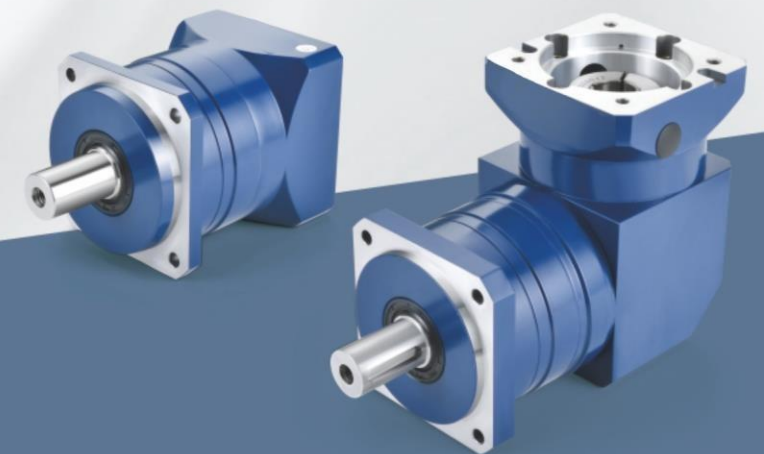


MACTROL-REFU

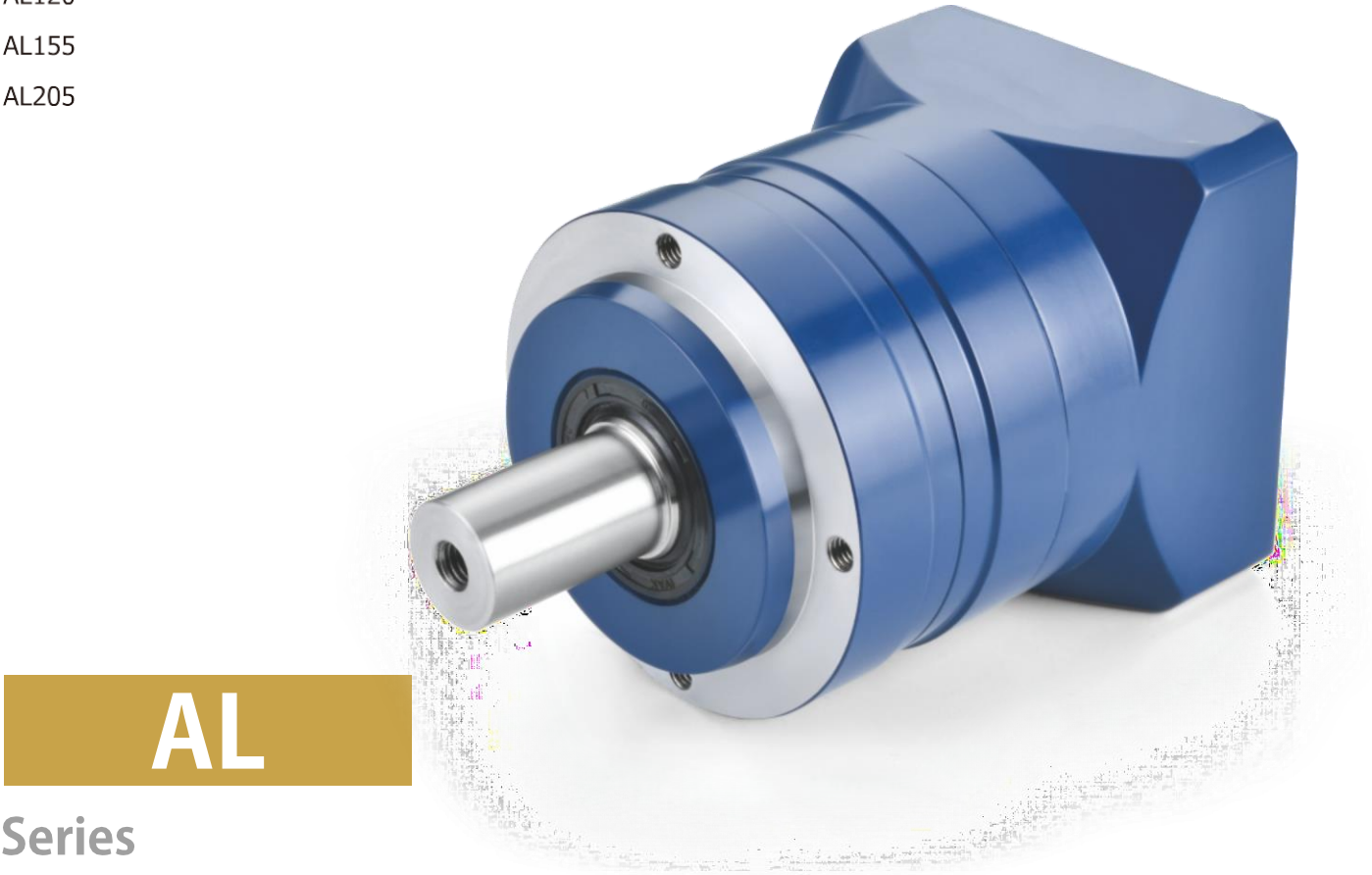
*INGENUITY CASTING PRECISION
TRANSMISSION PRODUCTS*



Mactrol-Refu Pvt. Ltd.

AL Series

- AL070
- AL090
- AL120
- AL155
- AL205



AL Series

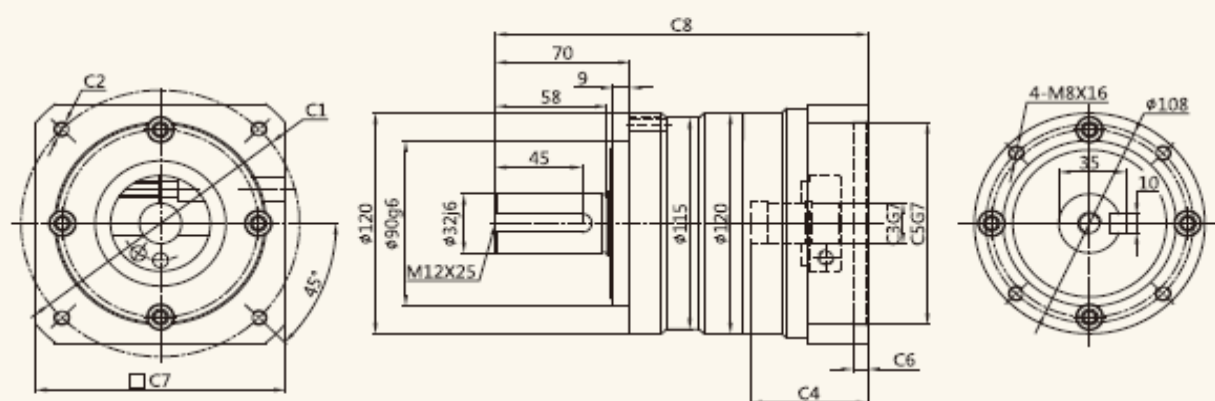
The Core Characteristics of AL Series Reducer

- 1 Helical gear transmission, carburizing and quenching treatment, tooth profile modification treatment, to ensure low noise and smooth operation. The bearing capacity is 20% higher than that of straight teeth.
- 2 Integral output shaft and bearing support at both ends of planetary wheel to achieve high precision and strength.
- 3 The backlash clearance is small, and the precision single stage can achieve less than 3 arcmin.

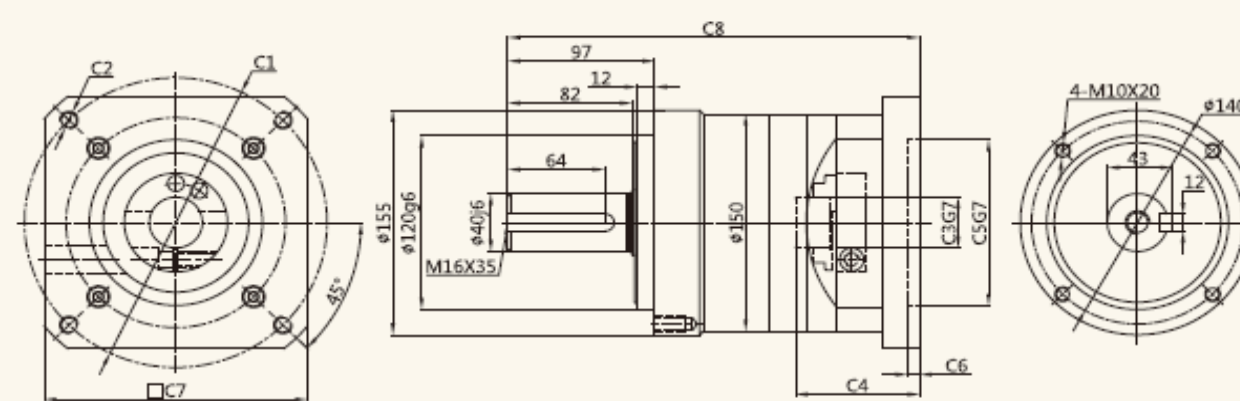
Gear box performance information

	Unit	AL070	AL090	AL120	AL155	AL205	Ratio	Stage
额定输出扭矩 Rated output torque	N·m	18	50	120	240	600	3	1
		27	75	180	360	750	5	
		18	50	120	240	500	10	2
		37	96	230	450	1050	16	
		37	96	255	585	1000	25	
		27	87	180	360	800	30	
Emergency Stop torque Normal input speed Maximum Input Speed Maximum radial force Maximum arial force Efficiency Average lifetime Weight	N·m	37	96	230	564	1000	40	2
		27	87	180	360	800	70	
		imes Rated output torque						
		rmp						
		rmp	6000	6000	6000	3500	3000	
		N						
		N	1100	2200	3900	8200	14000	
		%						
		h	20000					
		kg	1.7	4.0	8.7	19	45	
moment of inertia	kgcm ²	0.14	0.48	2.74	7.54	23.67	4	1
		0.13	0.47	2.62	7.25	22.48	7	
		0.127	0.72	2.56	12.35	12.35	15	2
		0.075	0.44	1.5	6.65	7.42	20	
		0.064	0.39	1.3	6.34	7.14	28	
		0.064	0.39	1.3	6.34	7.14	35	
		0.075	0.39	1.5	7.5	7.54	50	
		0.075	0.39	1.5	7.5	7.54	100	
Backlash	arcmin						Precise[1]	
		≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	Standard[1]	
							Precise[2]	
		≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	Standard[2]	
Torsional rigidity	N·m/arc min							
Noise	dB	60	62	62	68	70		
Lubricating		Syntetic grease lubrication						
Levels of protection		IP65						

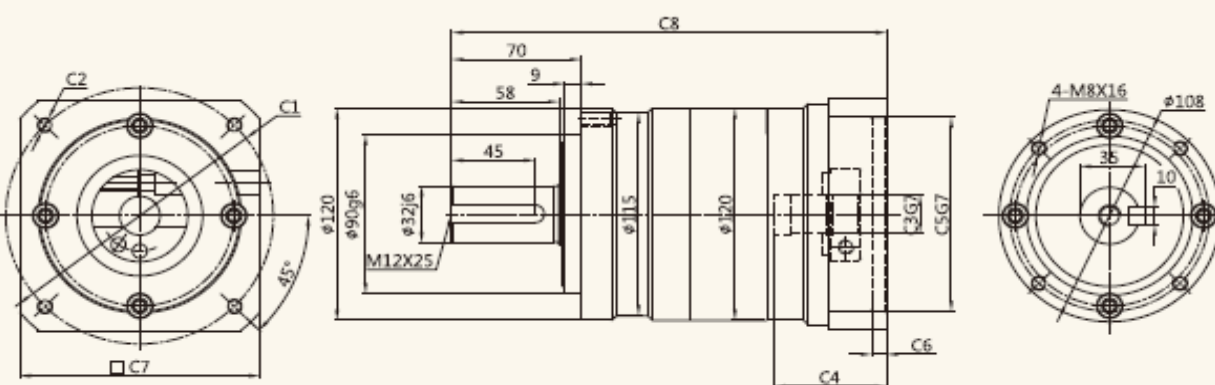
AL120-L1[Single]



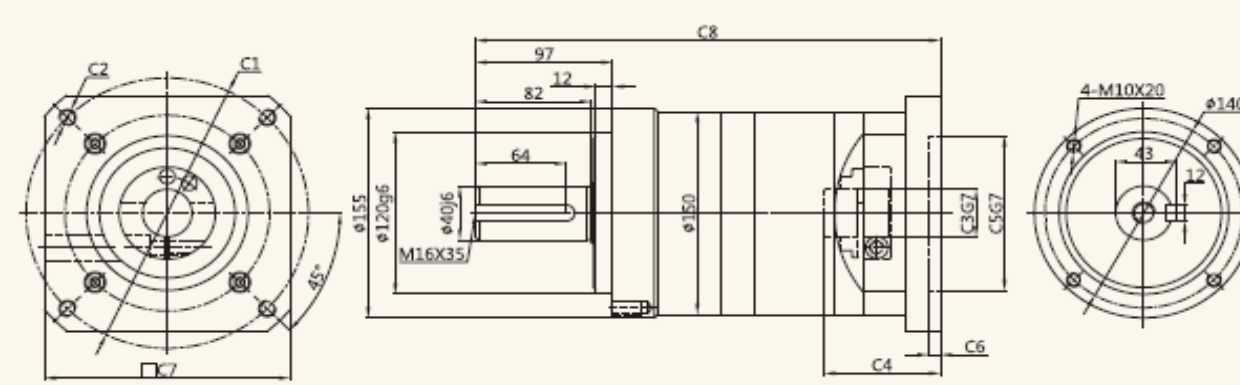
AL155-L1[Single]



AL120-L2[Double]



AL155-L2[Double]



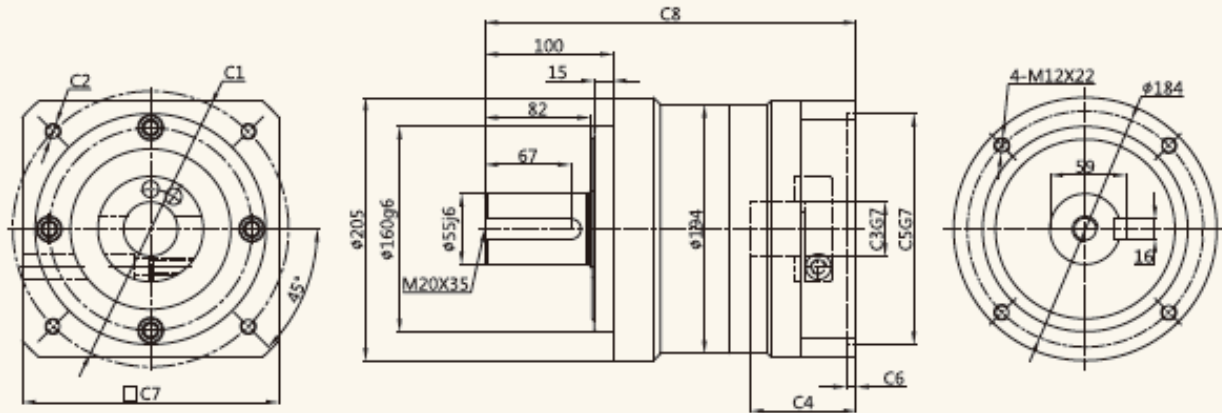
Adapter motor input interface size (The left end is the input size)

尺寸 Size	C1	C2	C3	C4	C5	C6	C7	C8
AL-120-L1	Φ115	4-M8	Φ19/Φ22	60	Φ95	7	130	194
	Φ130	4-M8	Φ19/Φ22	60	Φ95	7	130	194
	Φ145	4-M8	Φ19/Φ22/Φ24	62	Φ110	7	130	197
	Φ200	4-M12	Φ35	82	Φ114.3	7	180	215.5
AL-120-L2	Φ90	4-M5/4-M6	Φ19	55	Φ70	5.5	90	230.5
	Φ115	4-M8	Φ19/Φ22	60	Φ95	7	130	235.5
	Φ130	4-M8	Φ19/Φ22	60	Φ95	7	130	235.5
	Φ145	4-M8	Φ19/Φ22/Φ24	62	Φ110	7	180	238.5

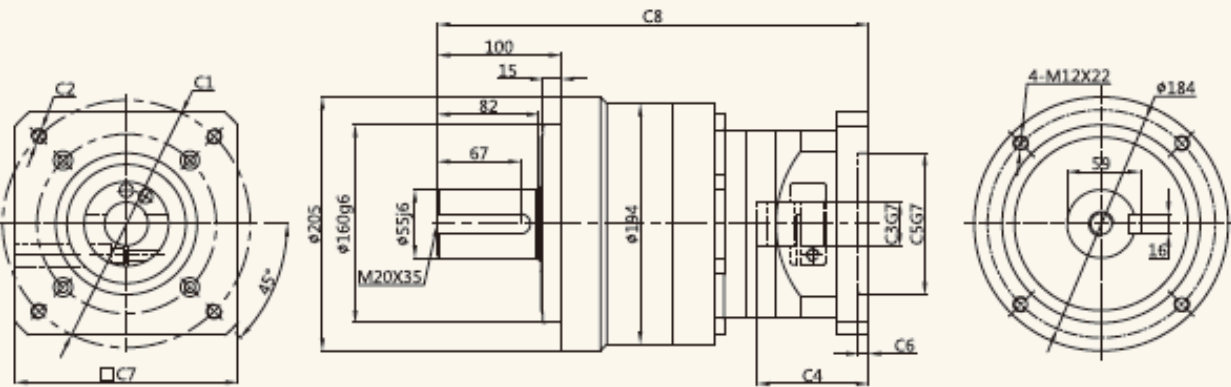
Adapter motor input interface size (The left end is the input size)

尺寸 Size	C1	C2	C3	C4	C5	C6	C7	C8
AL-155-L1	Φ130	4-M8	Φ22	65	Φ95	7	150	247.5
	Φ145	4-M8	Φ22/Φ24	65	Φ110	7	150	247.5
	Φ165	4-M10	Φ32	90	Φ130	7	150	272.5
	Φ200	4-M12	Φ35	90	Φ114.3	7	180	272.5
	Φ200	4-M12	Φ35	115	Φ114.3	7	180	297.5
	Φ215	4-M12	Φ38/Φ42	90	Φ180	7	190	272.5
AL-155-L2	Φ130	4-M8	Φ22	65	Φ95	7	150	309.5
	Φ145	4-M8	Φ22/Φ24	65	Φ110	7	150	309.5
	Φ200	4-M12	Φ35	90	Φ114.3	7	180	334.5

AL205-L1[Single]



AL205-L2[Double]



Adapter motor input interface size (The left end is the input size)

尺寸 Size	C1	C2	C3	C4	C5	C6	C7	C8
AL-205-L1	Φ200	4-M12	Φ35	83	Φ114.3	7	180	289.5
	Φ215	4-M12	Φ42	83	Φ180	7	190	289.5
AL-205-L2	Φ145	4-M8	Φ22/Φ24	65	Φ110	7	130	323
	Φ200	4-M12	Φ35	90	Φ114.3	7	180	348
	Φ200	4-M12	Φ35	115	Φ114.3	7	180	373
	Φ215	4-M12	Φ42	90	Φ180	7	190	348

M/s Mactrol-Refu Pvt. Ltd.
(German Design)

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