



产品介绍 Product Profile

TVBR系列
(TVBR Series)

- TVBR-L1

● TVBR-L1-B
- TVBR-L2

● TVBR-L2-B

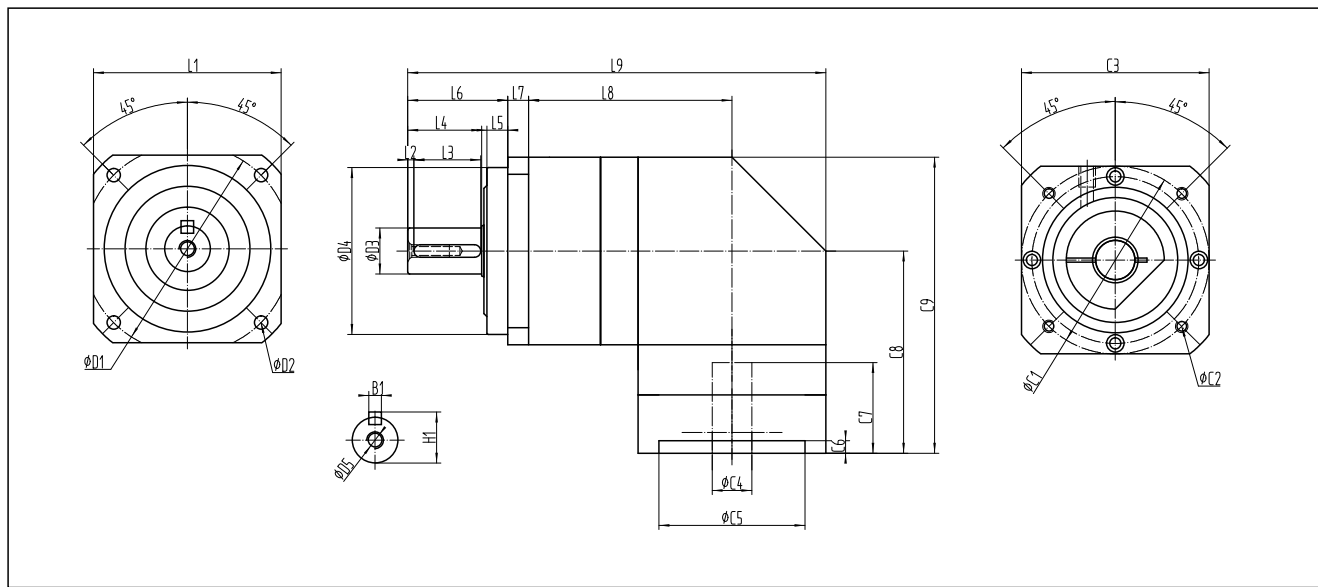


减速机性能资料 / gear box preformance information

技术参数 Technical data		节数 stage level	速比 ratio	TVBR042	TVBR060	TVBR090	TVBR030B	TVBR115	TVBR158	TVBR140	TVBR180	TVBR220
额定输出扭矩(nornmal output torque)T2N	Nm	L1	3	13	36	90	90	195	195	550	1100	1860
			4	16	48	120	120	260	260	600	1250	1950
			5	15	60	150	150	325	325	590	1200	1900
			6	11	55	150	150	325	325	450	950	1600
			7	15	50	140	140	300	300	540	1050	1760
			8	11	45	120	120	260	260	460	960	1550
			9	9	40	100	100	230	230	450	900	1500
			10	12	40	100	100	230	230	520	1000	1120
			15	13	36	90	90	300	300	530	1100	1800
		L2	20	15	48	110	110	230	230	530	1150	1800
			25	15	60	150	150	325	325	590	1200	1800
			30	13	55	150	150	310	310	550	1100	1830
			35	13	50	140	140	300	300	540	1100	1800
			40	15	45	100	100	260	260	500	1000	1600
			50	15	60	160	160	230	230	580	1200	1670
			70	13	50	140	140	300	300	520	1100	1600
			80	11	45	120	120	260	260	500	1000	1500
			100	10	40	100	100	230	230	450	900	1500
急停扭矩(emergency torque)T2NOT	Nm	L1*L2	2.5倍额定输出扭矩 2.5 times of nominal output torque									
额定输入转速(nornmal input speed)n _{in}	rpm	L1*L2	3~100	3000	5000	4000	4000	4000	4000	2500	2000	2000
最大输入转速(maximum input speed)n _{1B}		L1*L2	3~100	6000	10000	8000	8000	8000	8000	4500	4500	4000
回程标准间隙P2 standard backlash		L1	3~10	≤8	≤7	≤7	≤7	≤7	≤7	≤8	≤8	≤8
		L2	12~100	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10
扭转刚性 torsional stiffness	Nm/arcmin	L1*L2	3~100	3	7	14	14	25	25	56	140	220
最大径向力(Maximum radial force)F _{2RMAX}	N	L1*L2	3~100	780	1200	2450	2450	4000	4000	9400	14500	50000
最大轴向力(Maximum axial force)F _{2AMAX}	N	L1*L2	3~100	330	1050	2200	2200	4000	4000	4700	7200	28000
工作效率 efficiency	%	L1	3~10	≥93	≥95	≥95	≥95	≥95	≥95	≥93	≥93	≥93
		L2	12~100	≥90	≥92	≥92	≥92	≥92	≥92	≥90	≥90	≥90
工作寿命 life time	h	L1*L2	3~100	≥20000 小时(hour)								
环境温度 operating temperature	℃	L1*L2	3~100	-10℃ ~ +90℃								
润滑方式 lubrication		L1*L2	3~100	终身润滑 Lifetime lubrication								
防护等级 IP degree		L1*L2	3~100	IP65								
安装方向 mounting position		L1*L2	3~100	任何方向 All position								
噪音 noise level	dB	L1*L2	3~100	≤65	≤64	≤67	≤67	≤70	≤70	≤70	≤72	≤74
转动惯量(Moment of Inertia)J1	kg.cm ²	L1	3	0.09	0.35	2.25	2.25	6.84	6.84	23.4	68.9	135.4
			4	0.09	0.35	2.25	2.25	6.84	6.84	23.4	68.9	135.4
			5	0.09	0.35	2.25	2.25	6.84	6.84	23.4	68.9	135.4
			6	0.09	0.35	2.25	2.25	6.84	6.84	23.4	68.9	135.4
			7	0.09	0.35	2.25	2.25	6.84	6.84	23.4	68.9	135.4
			8	0.09	0.35	2.25	2.25	6.84	6.84	23.4	68.9	135.4
			10	0.09	0.35	2.25	2.25	6.84	6.84	23.4	68.9	135.4
			10	0.09	0.35	2.25	2.25	6.84	6.84	23.4	68.9	135.4
		L2	15	0.09	0.09	0.35	0.35	2.25	2.25	6.84	23.4	68.9
			20	0.09	0.09	0.35	0.35	2.25	2.25	6.84	23.4	68.9
			25	0.09	0.09	0.35	0.35	2.25	2.25	6.84	23.4	68.9
			30	0.09	0.09	0.35	0.35	2.25	2.25	6.84	23.4	68.9
			35	0.09	0.09	0.35	0.35	2.25	2.25	6.84	23.4	68.9
			40	0.09	0.09	0.35	0.35	2.25	2.25	6.84	23.4	68.9
			50	0.09	0.09	0.35	0.35	2.25	2.25	6.84	23.4	68.9
			70	0.09	0.09	0.35	0.35	2.25	2.25	6.84	23.4	68.9
			80	0.09	0.09	0.35	0.35	2.25	2.25	6.84	23.4	68.9
			100	0.09	0.09	0.35	0.35	2.25	2.25	6.84	23.4	68.9

外形尺寸图表 / out line dimension sheet

TVBR-L1



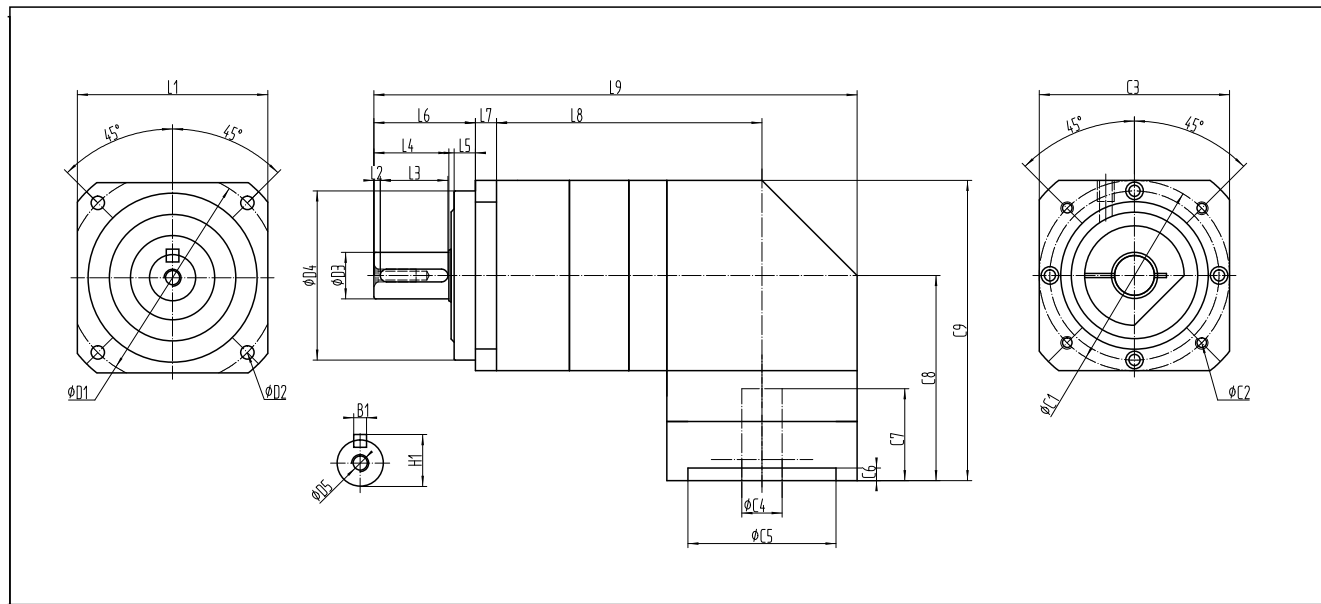
尺寸	TVBR042	TVBR060	TVBR090	TVBR115	TVBR140	TVBR180	TVBR220
D1	50	70	100	130	165	215	250
D2	3.4	5.5	6.5	9	11	13	17
D3	13	16	22	32	40	55	75
D4	35	50	80	110	130	160	180
D5	M4*8	M5*12	M8*16	M12*24	M16*32	M20*40	M20*40
L1	42	60	90	115	142	180	220
L2	3	3	3	5	5	6	7
L3	14	20	30	40	65	70	90
L4	19.5	28.5	35.5	51	79	82	105
L5	5.5	7	10	10	15	20	30
L6	26	37	48	65	97	105	138
L7	4	8	10	10	12	15	20
L8	71	71.5	97.5	132.5	146	184	216
L9	122	146.5	200.5	265	352	394	484
C1	46	70	90	145	200	200	235
C2	M3*6	M4*8	M5*10	M8*16	M12*24	M12*24	M12*24
C3	42	60	90	130	142	180	220
C4	8	14	19	24	35	38	55
C5	30	50	70	110	114.3	180	215
C6	3.5	6	6	14	14	15	7
C7	30	32.5	43.5	67	81	85	85
C8	69.5	68	97	126	165	213.5	268.5
C9	95.5	98	142	183.5	230	303.5	378.5
B1	5	5	6	10	12	16	20
H1	15	18	24.5	35.5	43	59	79.5

注1:减速机出力轴可以为客户定制大小和长短。
注2:输入尺寸依据各品牌伺服马达或步进马达可以有所变动。

Note 1: The reducer output shaft size and length can be customized for customers.
Note 2: Input sizes can be subject to changed according to the brand servo motors or stepper motors sizes.

外形尺寸图表 / out line dimension sheet

TVBR-L2



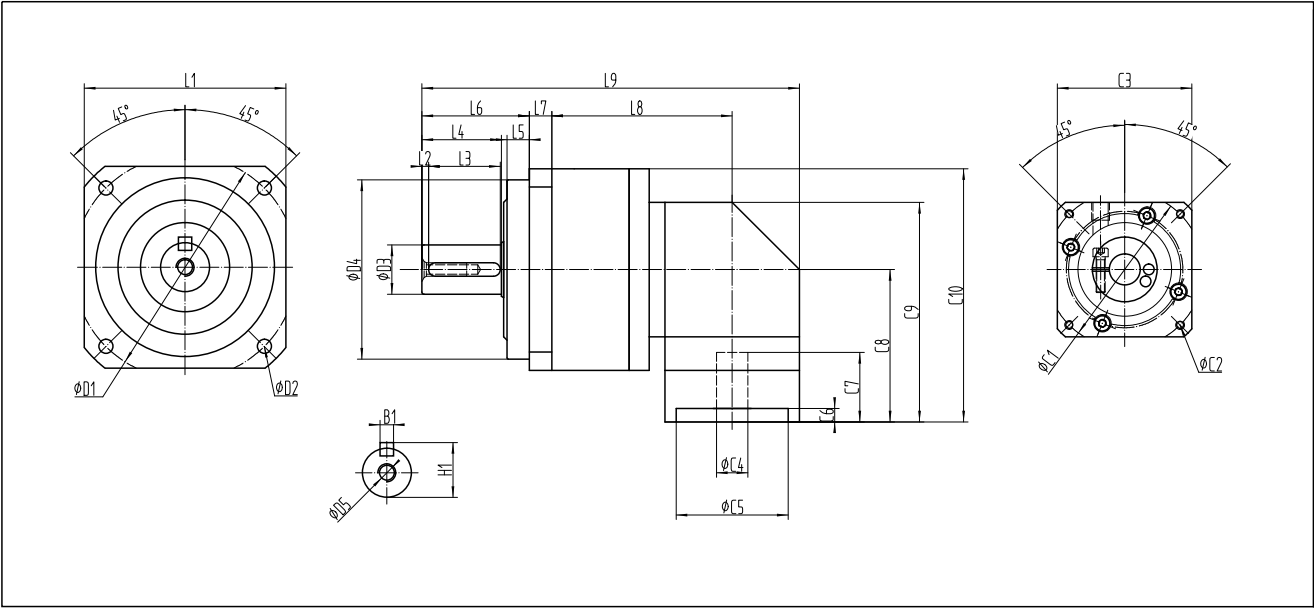
尺寸	TVBR042	TVBR060	TVBR090	TVBR115	TVBR140	TVBR180	TVBR220
D1	50	70	100	130	165	215	250
D2	3.4	5.5	6.5	9	11	13	17
D3	13	16	22	32	40	55	75
D4	35	50	80	110	130	160	180
D5	M4*8	M5*12	M8*16	M12*24	M16*32	M20*40	M20*40
L1	42	60	90	115	142	180	220
L2	3	3	3	5	5	6	7
L3	14	20	30	40	65	70	90
L4	19.5	28.5	35.5	51	79	82	105
L5	5.5	7	10	10	15	20	30
L6	26	37	48	65	97	105	138
L7	4	8	10	10	12	15	20
L8	88	91.5	125.5	169.5	173	217	253
L9	139	166.5	228.5	302	378	427	521
C1	46	70	90	145	200	200	235
C2	M3*6	M4*8	M5*10	M8*16	M12*24	M12*24	M12*24
C3	42	60	90	130	142	180	220
C4	8	14	19	24	35	38	55
C5	30	50	70	110	114.3	180	215
C6	3.5	6	6	14	14	15	7
C7	30	32.5	43.5	67	81	85	85
C8	69.5	68	97	126	165	213.5	268.5
C9	95.5	98	142	183.5	230	303.5	378.5
B1	5	5	6	10	12	16	20
H1	15	18	24.5	35.5	43	59	79.5

注1:减速机出力轴可以为客户定制大小和长短。
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外形尺寸图表 / out line dimension sheet

TVBR-L1-B



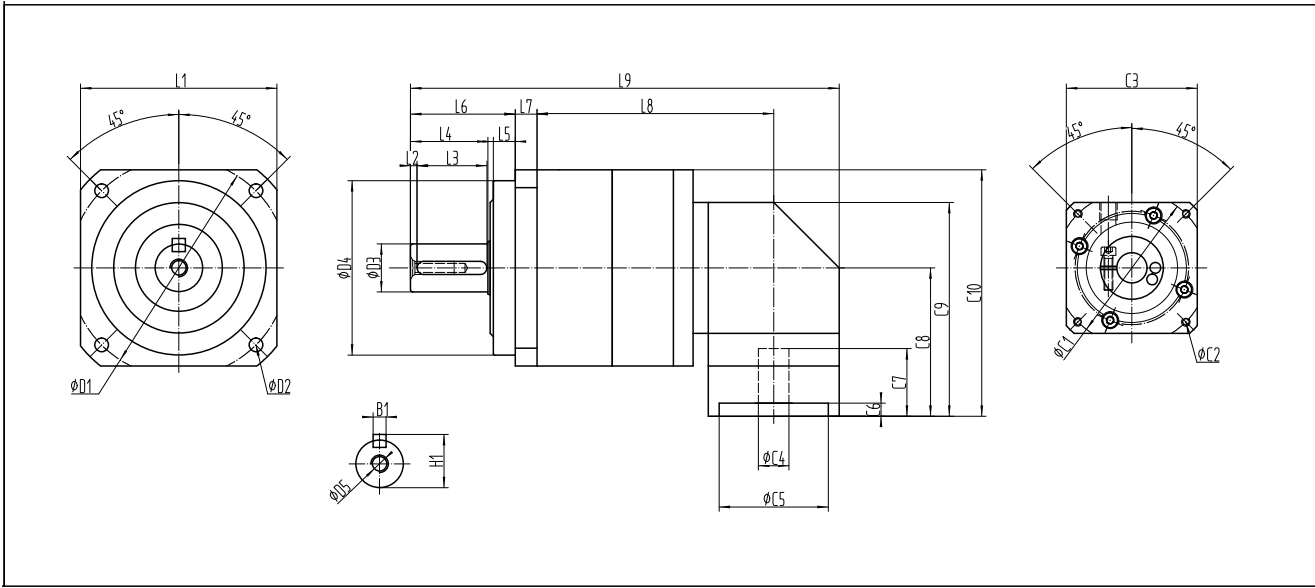
尺寸	TVBR090B	TVBR115B
D1	100	130
D2	6.5	9
D3	22	32
D4	80	110
D5	M8*16	M12*24
L1	90	115
L2	3	5
L3	30	40
L4	35.5	51
L5	10	10
L6	48	65
L7	10	10
L8	80.5	115
L9	168.5	235
C1	70	90
C2	M4*8	M5*10
C3	60	90
C4	14	19
C5	50	70
C6	6	6
C7	31	43.5
C8	68	97
C9	98	142
C10	113	159.5
B1	6	10
H1	24.5	35.5

注1:减速机出力轴可以为客户定制大小和长短。
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外形尺寸图表 / out line dimension sheet

TVBR-L2-B



尺寸	TVBR090B	TVBR115B
D1	100	130
D2	6.5	9
D3	22	32
D4	80	110
D5	M8*16	M12*24
L1	90	115
L2	3	5
L3	30	40
L4	35.5	51
L5	10	10
L6	48	65
L7	10	10
L8	108.5	152
L9	196.5	272
C1	70	90
C2	M4*8	M5*10
C3	60	90
C4	14	19
C5	50	70
C6	6	6
C7	31	43.5
C8	68	97
C9	98	142
C10	113	159.5
B1	6	10
H1	24.5	35.5

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