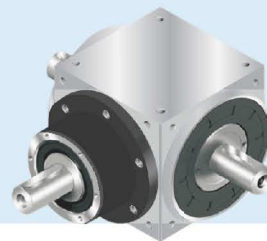


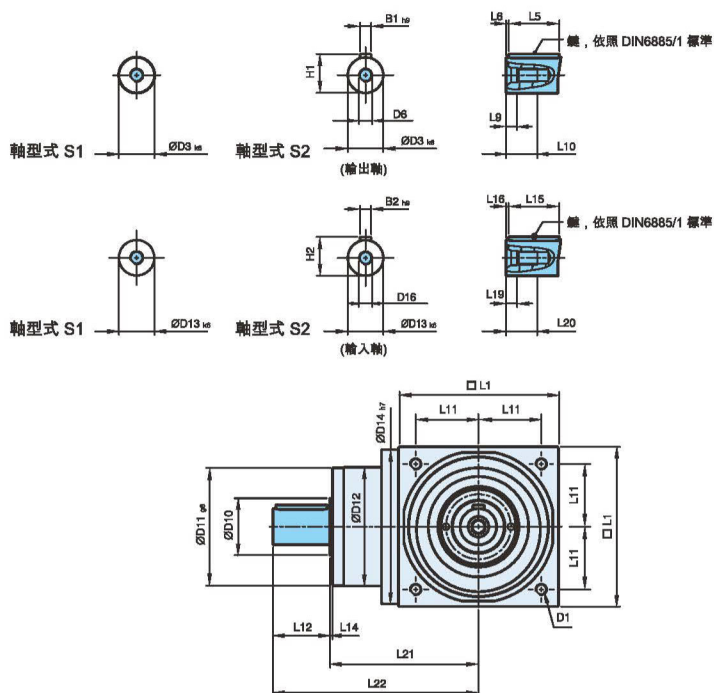
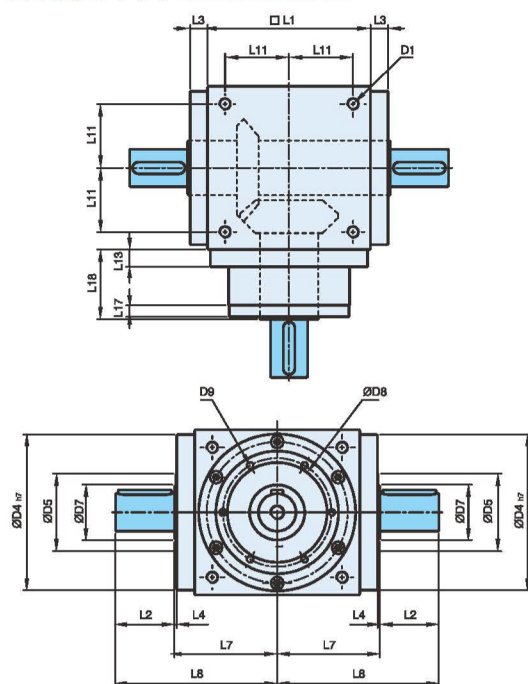
AT-L系列雙軸出軸型式

Double Output Shaft Type

尺寸 (單節 1-stage, 減速比ratio i=1~5)



外形尺寸圖 Dimensions:



規格表 Specifications:

Unit: mm

尺寸 Sizes	AT065 L	AT075 L	AT090 L	AT110 L	AT140 L	AT170 L	AT210 L	AT240 L	AT280 L
D1	M4	M6	M6	M8	M10	M12	M16	M16	M16
D3 k6	13	16	18	22	32	40	50	55	60
D4 h7	63	73	88	108	135	165	205	235	275
D5	31	35	43	53	68	83	104	124	144
D6	M4	M5	M5	M8	M12	M16	M16	M16	M20
D7	21	22	28	33	47	55	75	85	110
D8	53	62	76	95	92	114	142	160	176
D9	4xM4xL7	4xM5xL8	4xM5xL8	6xM6xL10	6xM6xL10	6xM8xL12.5	6xM8xL12.5	6xM8xL12.5	6xM10xL15
D10	15.4	20.4	25.8	35.8	49.8	59.3	79.3	92.3	102.3
D11 g6	62.9	72.9	87	107	103	127	158	178	198
D12	62	72	86	106	104	128	160	180	200
D13 k6	13	16	18	22	32	40	50	55	60
D14 h7	63	73	88	108	135	165	205	235	275
D16	M4	M5	M5	M8	M12	M16	M16	M16	M20
L1	65	75	90	110	140	170	210	240	280
L2	19.5	30	35	40	50	60	75	85	110
L3	13	14.5	15	15	15	15	20	25	25
L4	2	2	2	2	2	2	2	2	2
L5	16	25	28	32	45	50	70	80	100
L6	2	2.5	3.5	4	2.5	5	2.5	2.5	5
L7	47.5	54	62	72	87	102	127	147	167
L8	67	84	97	112	137	162	202	232	277
L9	4.5	4.8	4.8	7.2	10	12	12	12	15
L10	10	12.5	12.5	19	28	36	36	36	42
L11	27	30	36	44	55	67	85	95	110
L12	19.5	30	35	40	50	60	75	85	110
L13	13	15	15	15	15	15	20	25	25
L14	2	2	2	2	2	2	2	2	2
L15	16	25	28	32	45	50	70	80	100
L16	2	2.5	3.5	4	2.5	5	2.5	2.5	5
L17	6	8	8	8	10	10	10	10	10
L18	43	52.5	55	60	60	70	90	105	120
L19	4.5	4.8	4.8	7.2	10	12	12	12	15
L20	10	12.5	12.5	19	28	36	36	36	42
L21	75.5	90	100	115	130	155	195	225	260
L22	95	120	135	155	180	215	270	310	370
B1 h9	5	5	6	6	10	12	14	16	18
B2 h9	5	5	6	6	10	12	14	16	18
H1	15	18	20.5	24.5	35	43	53.5	59	64
H2	15	18	20.5	24.5	35	43	53.5	59	64

AT雙軸出軸系列

Double Output Shaft Series



減速機性能資料 Files of Reducer Performance

規 格 Specification	節 數 Stage	比數 ¹ Ratio ^A	AT065 L AT065 L1 AT065 H AT065 C AT065 R1 AT065 LM AT065 RM AT065 4M	AT075 L AT075 L1 AT075 H AT075 C AT075 R1 AT075 LM AT075 RM AT075 4M	AT090 L AT090 L1 AT090 H AT090 C AT090 R1 AT090 LM AT090 RM AT090 4M	AT110 L AT110 L1 AT110 H AT110 C AT110 R1 AT110 LM AT110 RM AT110 4M	AT140 L AT140 L1 AT140 H AT140 C AT140 R1 AT140 LM AT140 RM AT140 4M	AT170 L AT170 L1 AT170 H AT170 C AT170 R1 AT170 LM AT170 RM AT170 4M	AT210 L AT210 L1 AT210 H AT210 C AT210 R1 AT210 LM AT210 RM AT210 4M	AT240 L AT240 L1 AT240 H AT240 C AT240 R1 AT240 LM AT240 RM AT240 4M	AT280 L AT280 L1 AT280 H AT280 C AT280 R1 AT280 LM AT280 RM AT280 4M
額定輸出力矩 T_{2N} Rated Output Torque	1	1	25	45	78	150	360	585	1,300	2,150	3,200
		1.5	25	45	78	150	360	585	1,300	2,150	3,200
		2	24	42	68	150	330	544	1,220	2,010	3,050
		3	18	33	54	120	270	450	1,020	1,650	2,850
		4	13	28	48	100	224	376	860	1,410	2,300
		5	12	25	40	85	196	320	740	1,210	2,000
最大加速力矩 T_{2B} Max.	Nm	1	1~5	1.5倍額定輸出力矩 1.5 Times of Rated Output Torque							
最大加速輸入轉速 n_{1B} Max.	rpm	1	1~5	7,500	6,500	5,500	4,500	3,500	3,000	2,200	1,700
背隙 [*] Backlash	arcmin	1	1~5	≤6	≤6	≤6	≤6	≤6	≤6	≤6	≤6
容許徑向力 F_{1B} ² Radial 輸入軸d1 Input d1	N	1	1~5	700	950	1,450	2,100	2,700	3,800	7,800	10,500
容許徑向力 F_{2B} ³ Radial 輸出軸d2 Output d2	N	1	1~5	900	1,100	1,700	2,700	4,800	6,600	11,500	18,000
容許軸向力 F_{1B} ² Axial 輸入軸d1 Input d1	N	1	1~5	350	425	725	1,050	1,350	1,900	3,900	5,250
容許軸向力 F_{2B} ³ Axial 輸出軸d2 Output d2	N	1	1~5	450	550	850	1,350	2,400	3,300	5,750	9,000
使用壽命 Service Life	hr	1	1~5	20,000*							
效率 η Efficiency	%	1	1~5	≥98%							
使用溫度 Operating Temp	°C	1	1~5	-10 °C ~ 90 °C							
潤滑 Lubrication				合成潤滑油 Fully Synthetic Grease							
噪音值 ($n=1500$ rpm, 無負載) dB(A)		1	1~5	≤68	≤70	≤74	≤76	≤77	≤78	≤80	≤82

1. 減速比 ($i=N_{in}/N_{out}$)

2. 作用於輸入軸中心位置 @ n_{1B}

3. 作用於輸出軸中心位置 @ n_{1B}

* 連續運轉降低使用壽命二分之一。

* 背隙值為在 2% 額定力矩 T_{2N} 的扭力下所測得

AT-LM / RM / 4M 只提供 1 : 1 比數

減速機轉動慣量 Rotary Inertia of Reducer

規 格 Specification	節 數 Stage	比數 ¹ Ratio ^A	AT065 L AT065 L1 AT065 H AT065 C AT065 R1 AT065 LM AT065 RM AT065 4M	AT075 L AT075 L1 AT075 H AT075 C AT075 R1 AT075 LM AT075 RM AT075 4M	AT090 L AT090 L1 AT090 H AT090 C AT090 R1 AT090 LM AT090 RM AT090 4M	AT110 L AT110 L1 AT110 H AT110 C AT110 R1 AT110 LM AT110 RM AT110 4M	AT140 L AT140 L1 AT140 H AT140 C AT140 R1 AT140 LM AT140 RM AT140 4M	AT170 L AT170 L1 AT170 H AT170 C AT170 R1 AT170 LM AT170 RM AT170 4M	AT210 L AT210 L1 AT210 H AT210 C AT210 R1 AT210 LM AT210 RM AT210 4M	AT240 L AT240 L1 AT240 H AT240 C AT240 R1 AT240 LM AT240 RM AT240 4M	AT280 L AT280 L1 AT280 H AT280 C AT280 R1 AT280 LM AT280 RM AT280 4M
轉動慣量 J_1 Rotary Inertia	1	1	0.51	1.30	3.16	7.70	23.57	58.99	195.40	369.34	799.12
		1.5	0.64	1.16	2.82	6.74	19.37	49.28	155.45	283.58	595.78
		2	0.44	1.11	2.70	6.31	17.75	45.35	140.24	249.74	511.76
		3	0.43	1.09	2.66	6.17	17.18	44.01	134.95	237.71	483.06
		4	0.43	1.09	2.65	6.13	17.06	43.70	133.58	234.72	476.26
		5	0.43	1.09	2.65	6.12	17.02	43.60	133.14	233.67	473.58