



單螺桿齒輪箱額定扭矩參數規格表

Single-Screw Gearbox Rated Torque Chart

		轉速 (rpm)		齒輪箱型號 (Model)									
速比(i) Gear Ratio	輸入軸(n1) Input Speed	輸出軸(n2) Output Speed	APEX-125	APEX-140	APEX-160	APEX-180	APEX-200	APEX-225	APEX-250	NEX-280	NEX-320	NEX-360	NEX-400
	止推軸承 Thrust Bearing Model		29414	29416	29420	29422	29428	29430	29432	29436	29440	29444	29452
	額定扭矩(N.M) (Rated Torque)		2300	3280	5640	8390	13000	16400	24200	36500	44200	70100	108000
	安全係數(KA) Safety Factor		1	1	1	1	1	1	1	1	1	1	1
		額定最大功率 (kw) Rated Kw											
6.3	1800	285.71	68.82	98.14	168.75	251.04	388.97	490.70	724.08	1092.11	1322.50	2097.45	3231.45
	1500	238.10	57.35	81.78	140.63	209.20	324.14	408.92	603.40	910.09	1102.08	1747.88	2692.88
	1000	158.73	38.23	54.52	93.75	139.46	216.10	272.61	402.27	606.73	734.72	1165.25	1795.25
8	1800	225.00	54.19	77.29	132.89	197.69	306.31	386.43	570.22	860.04	1041.47	1651.74	2544.77
	1500	187.50	45.16	64.40	110.74	164.74	255.26	322.02	475.18	716.70	867.89	1376.45	2120.64
	1000	125.00	30.11	42.94	73.83	109.83	170.17	214.68	316.79	477.80	578.59	917.64	1413.76
10	1800	180.00	43.36	61.83	106.31	158.15	245.05	309.14	456.17	688.03	833.18	1321.39	2035.82
	1500	150.00	36.13	51.52	88.60	131.79	204.21	257.62	380.14	573.36	694.31	1101.16	1696.51
	1000	100.00	24.09	34.35	59.06	87.86	136.14	171.75	253.43	382.24	462.88	734.11	1131.01
12.5	1800	144.00	34.68	49.46	85.05	126.52	196.04	247.31	364.94	550.42	666.54	1057.12	1628.65
	1500	120.00	28.90	41.22	70.88	105.44	163.37	206.09	304.12	458.69	555.45	880.93	1357.21
	1000	80.00	19.27	27.48	47.25	70.29	108.91	137.40	202.74	305.79	370.30	587.29	904.81
14	1800	128.57	30.97	44.16	75.94	112.97	175.04	220.82	325.84	491.45	595.13	943.85	1454.15
	1500	107.14	25.81	36.80	63.28	94.14	145.86	184.01	271.53	409.54	495.94	786.54	1211.79
	1000	71.43	17.20	24.54	42.19	62.76	97.24	122.68	181.02	273.03	330.63	524.36	807.86
16	1800	112.50	27.10	38.64	66.45	98.85	153.16	193.21	285.11	430.02	520.74	825.87	1272.38
	1500	93.75	22.58	32.20	55.37	82.37	127.63	161.01	237.59	358.35	433.95	688.23	1060.32
	1000	62.50	15.05	21.47	36.91	54.91	85.09	107.34	158.39	238.90	289.30	458.82	706.88
18	1800	100.00	24.09	34.35	59.06	87.86	136.14	171.75	253.43	382.24	462.88	734.11	1131.01
	1500	83.33	20.07	28.62	49.22	73.22	113.45	143.12	211.19	318.53	385.73	611.76	942.51
	1000	55.56	13.38	19.08	32.81	48.81	75.63	95.41	140.79	212.35	257.15	407.84	628.34
20	1800	90.00	21.68	30.91	53.16	79.08	122.53	154.57	228.09	344.02	416.59	660.70	1017.91
	1500	75.00	18.06	25.76	44.30	65.90	102.10	128.81	190.07	286.68	347.16	550.58	848.26
	1000	50.00	12.04	17.17	29.53	43.93	68.07	85.87	126.71	191.12	231.44	367.05	565.50

選型指南 How to choose the right gearbox :

1. 表列中各個型號齒輪箱強度依照AGMA 2001-C95規範設計。許用扭矩、許用最大功率已考慮安全係數(KA)。
All models designed based on AGMA 2001-C95's regulation. Nominal torque value has already included the safety factor.
2. 在許用扭矩參數表中，根據客戶特定的電機功率，選用合適減速比，速比(i)=n1/n2，即可判斷決定齒輪箱型號。
Choose according to the chart, and select the best fit value for your motor kw, and gear ratio.
3. 確定齒輪箱型號後，在尺寸參數表中查詢齒輪箱外型安裝尺寸，判斷是否符合要求。
After picking a model, please check if all installation sizes are suitable for your needs.(Adjustments may be arrange.)
4. 如沒有查到可匹配的齒輪箱，您可以將您的具體需求及適用的標準發給我們，我們會為您特殊訂制符合要求的齒輪箱。
If none of the models shown on this chart meets your requirement, please contact us for alternatives.

止推軸承壽命 Thrust bearing's life span:

$F_a = \pi \times \frac{d_s^2 \times P_s}{4 \times 10000}$	Fa=止推軸承推力負荷 ds=螺桿直徑 Ps=螺桿承受壓力 (Bar)
$L_{h10} = \frac{10^6}{60 \times n_2} \times \left[\frac{C_{dyn}}{F_a} \right]^{\frac{10}{3}} r$	Fa=Thrust load ds=Screw diameter Ps=Pressure on screw Lh10=止推軸承壽命 n2=螺桿轉速 Cdyn=止推軸承動負荷荷重 Lh10=Thrust bearing life span n2=Screw RPM Cdyn=Thrust Bearing Dynamic Capacity
適用螺桿直徑(mm) Suitable Screw Diameter	45 55 65 75 90 100 110 120 150 180 210
止推軸承動負荷荷重(Cdyn)Ca KN Thrust Bearing Dynamic Capacity	490 580 870 1060 1410 1630 1820 1950 2350 2410 2940