



專業製造全系列同步時規皮帶輪

PULLEYS FOR ALL OF SYNCHRONOUS BELTS



傳動組合 專業設計 諮詢服務

晉曜有限公司

POSITIVE TRANSMISSION IND. CO., LTD.

一、同步時規皮帶輪系列

PolyChain	HTD	STS	PG GT
8MGT 14MGT	3M 5M 8M 14M 20M	S2M S3M S4.5M S5M S8M S14M	2GT(2MR) 3GT(3MR) 5GT(5MR) 8YU/8MR 8MGT 14MGT
Classical TM		AT	RPP
MXL XL L H XH XXH	※TN15 T2.5 T5 T10 T20	AT3 AT5 AT10 AT20	RPP3M RPP5M RPP8M RPP14M

二、正齒輪 (Gear)

規格：M0.2~ M12
DP4~ DP64

營業項目：

- ◆專業製造全系列時規皮帶輪
- ◆歐美日皮帶系列產品
- ◆正齒輪M0.2~M12,DP4~DP64
- ◆螺旋齒輪、蝸輪、蝸桿
- ◆各式齒排、齒條
- ◆錐形軸套(Taper Bush)
- ◆無背隙單向棘輪(One Way)
- ◆電動(環保)車用小齒輪及大齒輪
- ◆各型連軸器、電纜保護鏈條
- ◆扭力限制器、張力調整器

三、鏈輪

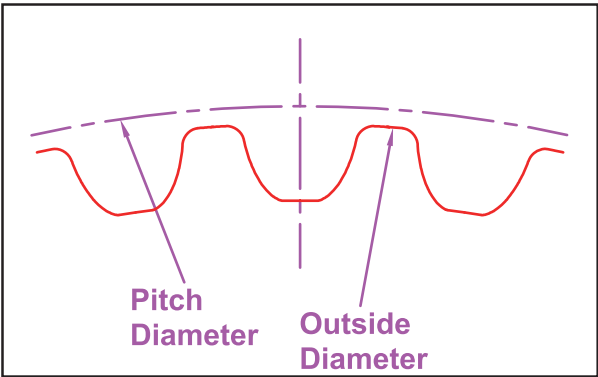
規格：RS25 ~ RS240

皮帶齒輪
專業品質

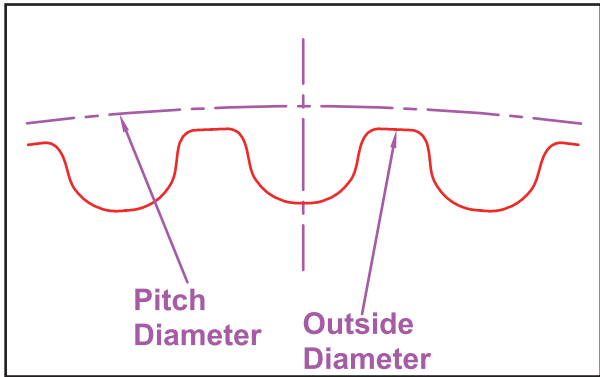
傳動設計
科技產品

諮詢服務
領導品牌

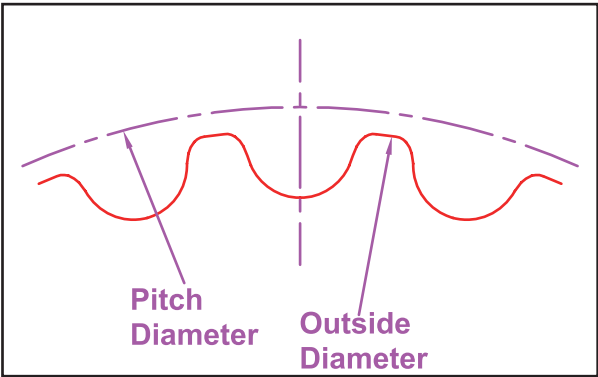
PolyChain



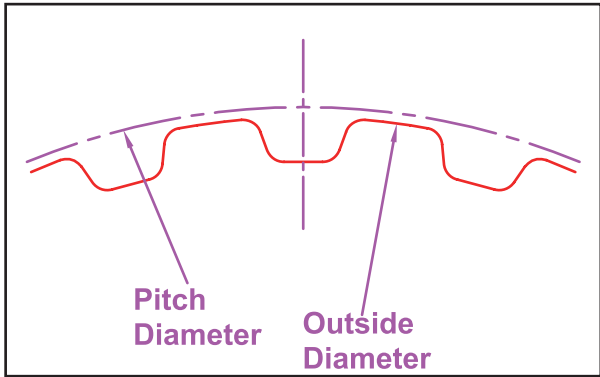
HTD



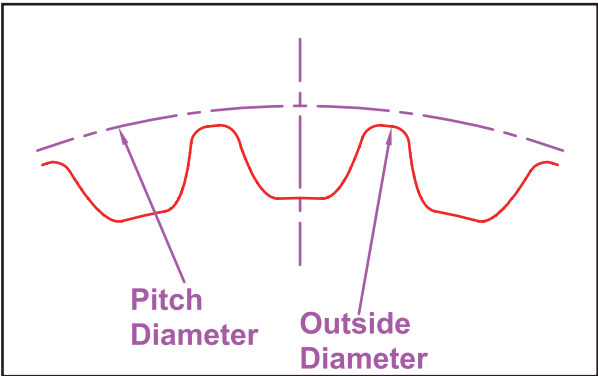
PG-GT



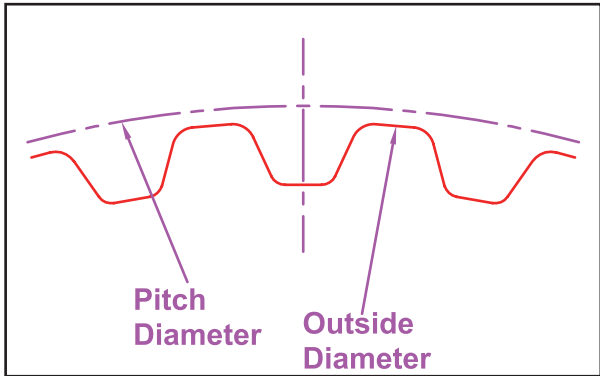
TM(MXL-XXH)



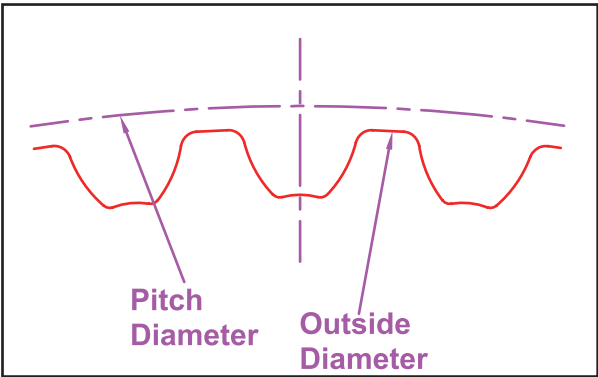
RPP



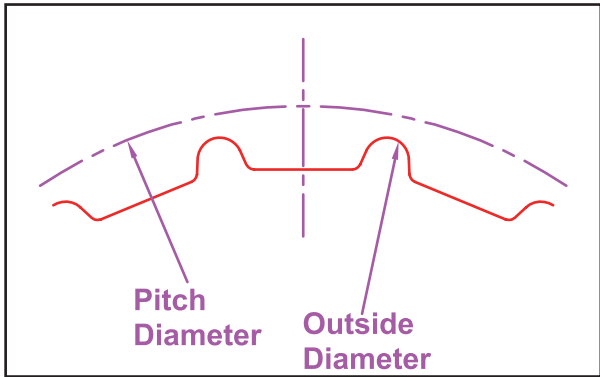
TM(T2.5-T20)



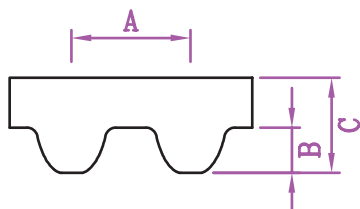
STS



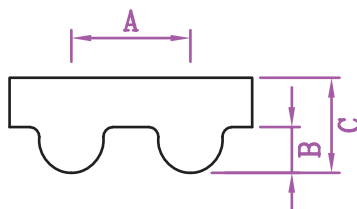
AT(AT5-AT20)



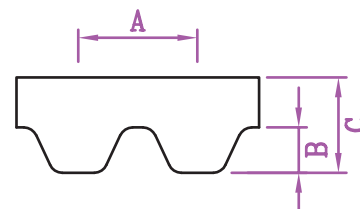
時規皮帶各式齒形



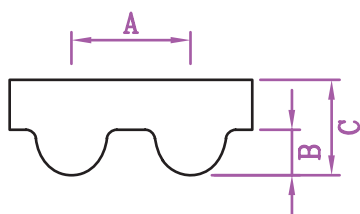
PolyChain			
	"A"	"B"	"C"
PC8M	8.0	3.4	5.9
PC14M	14.0	6.0	10.2



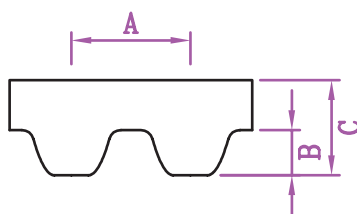
HTD			
	"A"	"B"	"C"
3M	3.00	1.17	2.40
5M	5.00	2.06	3.80
8M	8.00	3.40	6.00
14M	14.00	6.00	10.00
20M	20.00	8.40	13.20



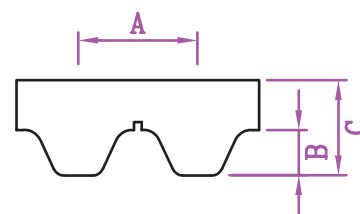
TM(MXL~XXH)			
	"A"	"B"	"C"
MXL	2.032	0.51	1.14
XL	5.08	1.27	2.30
L	9.525	1.91	3.60
H	12.70	2.29	4.30
XH	22.225	6.35	11.40
XXH	31.75	9.60	15.80



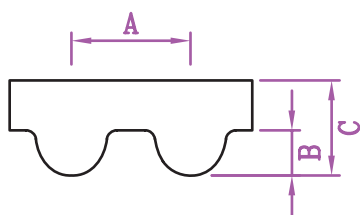
PG-GT			
	"A"	"B"	"C"
2MR	2.00	0.71	1.52
3MR	3.00	1.12	2.41
5MR	5.00	1.92	3.81
8MGT	8.00	3.40	5.60



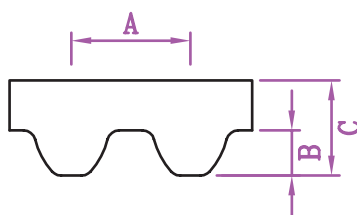
RPP			
	"A"	"B"	"C"
RP3M	3.00	1.27	2.40
RP5M	5.00	2.15	3.80
RP8M	8.00	3.20	5.40



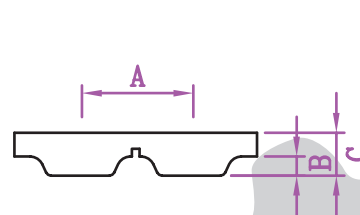
TM(T2.5~T20)			
	"A"	"B"	"C"
T2.5	2.5	0.7	1.3
T5	5.0	1.2	2.2
T10	10.0	2.5	4.5
T20	20.0	5.0	8.0



PG-GT			
	"A"	"B"	"C"
2GT	2.00	0.75	1.38
3GT	3.00	1.14	2.40
5GT	5.00	1.93	3.80
8YU	8.00	3.02	5.20



STS			
	"A"	"B"	"C"
S2M	2.00	0.76	1.40
S3M	3.00	1.14	2.10
S4.5M	4.50	1.71	2.70
S5M	5.00	1.91	3.61
S8M	8.00	3.05	5.30
S14M	14.00	5.30	10.20



AT(AT5-AT20)			
	"A"	"B"	"C"
AT5	5.0	1.2	2.7
AT10	10.0	2.5	4.5
AT20	20.0	5.0	8.0

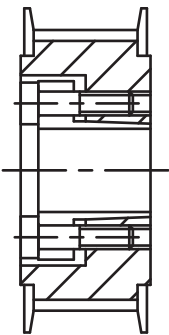
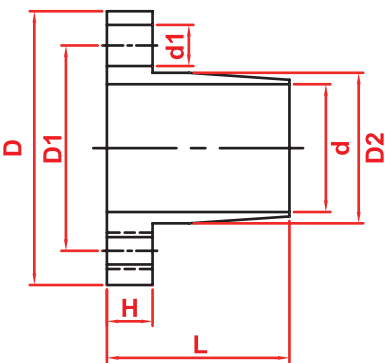
免鍵軸套



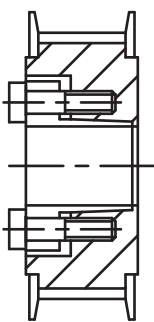
PTBNK-8

產品代碼

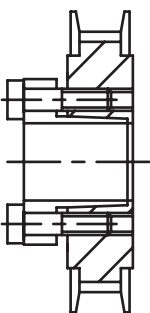
軸孔徑



(I)



(II)



(III)

軸孔徑d	使用螺栓		拆卸用	D	D1	D2	d1	L	H				
	尺寸	支數	攻牙孔										
6	M3	4	M3x2	18	13	8	3.3	16	4				
6.35				18.5	13.5	8.5							
8				20	15	10							
10	M4	3	M4x2	25	18	12	4.5	17	5				
11				26	19	13							
12				27	20	14							
14		4	M4x2	30	22.5	16.5		22	6				
15				31	23.5	17.5							
16				32	24.5	18.5							
17				33	25.5	19.5							
18				M5	4	M5x2				37	27.5	20.5	5.5
19	38	28.5	21.5										
20	39	29.5	22.5										
22	40	31.5	24.5										
24	43	33.5	26.5										
25	44	34.5	27.5										
28	6	M5x2	54				43	32	24	8			
30			56				45	34					
32			58		47	36	25	9					
35			61		50	39							
38			M6		6	M6x2	64	54			42	6.6	
40	66	56		44			30						
42	68	58		46			31	11					
45	M8	6	M8x2	83	68	50	8.8	38	13				
48				86	71	53		39					
50				88	73	55							

標準錐型軸套



TAPER BUSH DIMENSIONS				錐套軸孔鍵槽規格表	
		1008-3030		3525-5050	
BUSH. No.	Dimensions(inch)		Bore(mm)		Set Screws
	D	L	min.	max.	
1008	1.386	7/8	9	25	1/4"x1/2"x2pcs
1108	1.511	7/8	9	28	
1210	1 7/8	1	11	32	3/8"x5/8"x2pcs
1215	1 7/8	1 1/2	12	32	
1310	2	1	12	34	
1610	2 1/4	1	14	42	
1615	2 1/4	1 1/2	14	42	
2012	2 3/4	1 1/4	14	50	7/16"x7/8"x2pcs
2517	3 3/8	1 3/4	16	60	1/2"x1"x2pcs
3020	4 1/4	2	25	75	5/8"x1 1/4"x2pcs
3030	4 1/4	3	35	75	
3525	5	2 1/2	35	100	Caspscrew
3535	5	3 1/2	35	90	1/2"x1 1/2"x3pcs
4030	5 3/4	3	40	115	5/8"x1 3/4"x3pcs
4040	5 3/4	4	40	100	
4535	6 3/8	3 1/2	55	125	3/4"x2"x3pcs
4545	6 3/8	4 1/2	55	110	
5040	7	4	70	125	7/8"x2 1/4"x3pcs
5050	7	5	70	125	

Bore	Keyway	Bore	Keyway	Bore	Keyway
9 10	3x1.4	32 35 38	10x3.3	70 75	20x4.9
11 12	4x1.8	40 42	12x3.3	80 85	22x5.4
14 15 16	5x2.3	45 48 50	14x3.8	90 95	25x5.4
18 19 20 22	6x2.8	55	16x4.3	100 105 110	28x6.4
24 25 28 30	8x3.3	60 65	18x4.4	115 120 125	32x7.4

法蘭片規格表



鐵製法蘭片

外徑	內徑	厚度	外徑	內徑	厚度	外徑	內徑	厚度	外徑	內徑	厚度	外徑	內徑	厚度
13.5	6.5	1.0t	30	18	1.2t	42	33.6	1.5t	67.5	52.5	1.5t	110	90	2t
16	10.3			21	1.5t	43.5	32.5	1.2t	70	50	1.6t	113	97.5	1.5t
18	10.35					45	40		70	58		115	95	
	12	23		1.0t	33		71	59	1.5t	118	98	120	100	
19	13		31		24	1.5t	47	34	1.6t	73	55		108	1.5t
20	13.45	20		1.5t	49		37	75		122	102			
	11				1.0t		32	20		1.2t	77.5	62.5	125	104.8
21	15	21		1.5t				35			1.5t	80		60
22	13		22.5		38	83	65	1.5t	130					
	15	33	23	1.2t	51	39	67.5		135					
22.6	14.5		33.5		23.5	1.5t	52	40	1.6t	140	120	2t		
23	16	27		53	38		85	65		115				
24	18	24	35	25	1.2t	55	40	1.5t	86	74	146		120	
	13			26			1.5t		46	87.5	73	150	130	
25	15	36	28		1.0t	56		44	1.6t	90	70	152	125	
	16			37			26	1.5t		58	46	1.5t	93	81
26	18	29	30		1.0t	60			49.3		1.6t		95	75
	15			38			25	1.5t	61	49		1.5t	97.5	82.5
27	17	1.0t	39		30	1.5t				62	44		1.5t	100
				1.2t			40	28	1.2t			63		50
1.5t	31.6	1.0t	65		45	1.5t				105	85		188	
				1.5t			42	30	1.5t	66	54	1.5t	108	92.5
1.0t	20	1.0t	110		90	1.5t							110	90
				1.2t			20	1.0t	110	90	1.5t	110	90	210
1.0t	20	1.0t	110		90	1.5t						110	90	225
				1.0t			20	1.0t	110	90	1.5t	110	90	★SPCC鍍鋅處理

鋁製法蘭片

外徑	內徑	厚度	外徑	內徑	厚度	外徑	內徑	厚度	外徑	內徑	厚度	外徑	內徑	厚度
13.5	6.5	0.8t	28	22	1.5t	38	29	1.5t	58	49.3	1.5t	95	75	1.5t
		1.0t	29	20	1.2t	39	30	1.0t	60	43		97.5	82.5	
18	10.35	1.2t	30	21	1.5t	40	25	1.5t	61	49		100	80	
	12						52		103	87.5				
19	13						62	44	105	85				
20	13.45			63	50	108	92.5							
21	15			65	45	110	90							
22				66	54	113	97.5							
22.6	14.5	0.8t	31	24	1.5t	42	30	67.5	52.5	115		95		
23	16	1.2t	32	20	1.0t	43.5	32.5	70	50	118		98		
24	18			21	1.5t	45	30	71	58	125		105		
25	15			22.5	0.8t	33	47	34	73	59		128	110	
	19					49	37	75	55	130		110		
26	16			23.5	1.5t	50	35	77.5	62.5	135		110		
	18					51	39	80	60	140		115		
	1.0t	52	40			83	65	146	120					
27	17	1.2t	35	24	1.0t	53	38	85	65	152		125		
				25		40	86	74	157	125				
28	18	1.2t	36	26	1.5t	55	40	87.5	73	160		128		
	22			37		28	56	44	90	70		163	135	
			38	26		58	46	93	81	170		140		
										175		145		

時規皮帶輪各式形狀



A	AF	AWF																															
B	BF	BWF																															
D	DF	<table><tr><th>PL Material</th><th>S45C</th><th>AL6061</th></tr><tr><td>t</td><td></td><td></td></tr><tr><td>1.2</td><td>1.8</td><td>1.7</td></tr><tr><td>1.6</td><td>2.4</td><td>2.2</td></tr><tr><td>2.0</td><td>2.8</td><td></td></tr><tr><td>2.3</td><td>3.1</td><td></td></tr><tr><td>3.0</td><td colspan="2">螺絲鎖固</td></tr></table> <table><tr><th>Belt Pitch</th><th>BW=Belt Width</th></tr><tr><td>2</td><td>W=BW+(≥1)</td></tr><tr><td>3-5</td><td>W=BW+(≥1.5)</td></tr><tr><td>8</td><td>W=BW+(≥2)</td></tr><tr><td>≥14</td><td>W=BW+(≥4)</td></tr></table> 備註：1.W,T,t(參左圖) 2.以上均為建議值 Unit:mm	PL Material	S45C	AL6061	t			1.2	1.8	1.7	1.6	2.4	2.2	2.0	2.8		2.3	3.1		3.0	螺絲鎖固		Belt Pitch	BW=Belt Width	2	W=BW+(≥1)	3-5	W=BW+(≥1.5)	8	W=BW+(≥2)	≥14	W=BW+(≥4)
PL Material	S45C	AL6061																															
t																																	
1.2	1.8	1.7																															
1.6	2.4	2.2																															
2.0	2.8																																
2.3	3.1																																
3.0	螺絲鎖固																																
Belt Pitch	BW=Belt Width																																
2	W=BW+(≥1)																																
3-5	W=BW+(≥1.5)																																
8	W=BW+(≥2)																																
≥14	W=BW+(≥4)																																

軸孔與鍵槽對照表



公制METRIC

Bore Dia	Keyway 鍵槽	
孔徑(mm)	寬度(mm)	深度(mm)
9	3	1.4
10	3	1.4
11	4	1.8
12	4	1.8
14	5	2.3
15	5	2.3
16	5	2.3
18	6	2.8
19	6	2.8
20	6	2.8
22	6	2.8
24	8	3.3
25	8	3.3
28	8	3.3
30	8	3.3
32	10	3.3
35	10	3.3
38	10	3.3
40	12	3.3
42	12	3.3
45	14	3.8
48	14	3.8
50	14	3.8
55	16	4.3
60	18	4.4
65	18	4.4
70	20	4.9
75	20	4.9
80	22	5.4
85	22	5.4
90	25	5.4
95	25	5.4
100	28	6.4
105	28	6.4
110	28	6.4
115	32	7.4
120	32	7.4
125	32	7.4
130	32	7.4

英制IMPERIAL

Bore Dia	Keyway 鍵槽	
孔徑(inch)	寬度(inch)	深度(inch)
3/8	1/8	1/16
7/16	1/8	1/16
1/2	1/8	1/16
9/16	3/16	3/32
5/8	3/16	3/32
11/16	3/16	3/32
3/4	3/16	3/32
13/16	1/4	1/8
7/8	1/4	1/8
15/16	1/4	1/8(1/16)
1	1/4	1/8(1/16)
1.1/16	5/16	1/8(5/64)
1.1/8	5/16	1/8(5/64)
1.3/16	5/16	1/8
1.1/4	5/16	1/8
1.5/16	3/8	1/8
1.3/8	3/8	1/8
1.7/16	3/8	1/8
1.1/2	3/8	1/8
1.5/8	7/16	5/32(1/8)
1.11/16	7/16	5/32
1.3/4	7/16	5/32
1.7/8	1/2	5/32
2	1/2	5/32
2.1/8	5/8	7/32
2.1/4	5/8	7/32
2.3/8	5/8	7/32
2.7/16	5/8	7/32
2.1/2	5/8	7/32
5.5/8	3/4	1/4
2.3/4	3/4	1/4
2.7/8	3/4	1/4
3	3/4	1/4
3.1/8	7/8	5/16
3.1/4	7/8	5/16
3.3/8	7/8	5/16
3.1/2	7/8	5/16(1/4)
3.3/4	1	3/8(1/4)
4	1	3/8(1/4)
4.1/4	1.1/4	7/16(1/4)
4.1/2	1.1/4	7/16(1/4)
4.3/4	1.1/4	7/16
5	1.1/4	7/16(5/16)

美制

Bore Dia	Keyway 鍵槽	
孔徑(inch)	寬度(inch)	深度(inch)
3/8~7/16		
7/16~1/2		
1/2~9/16	1/8	1/16
5/8~7/8	3/16	3/32
15/16~1.1/4	1/4	1/8(1/16)
1.5/16~1.3/8	5/16	5/32
17./16~1.3/4	3/8	3/16(1/8)
1.13/16~2.1/4	1/2	1/4(3/16)
2.5/16~2.3/4	5/8	5/16(3/16)
2.13/16~3.1/4	3/4	3/8(1/4)
3.5/16~3.3/4	7/8	7/16(1/4)
3.13/16~4.1/2	1	1/2(1/4)
4.9/16~5	1.1/4	5/8(7/16)

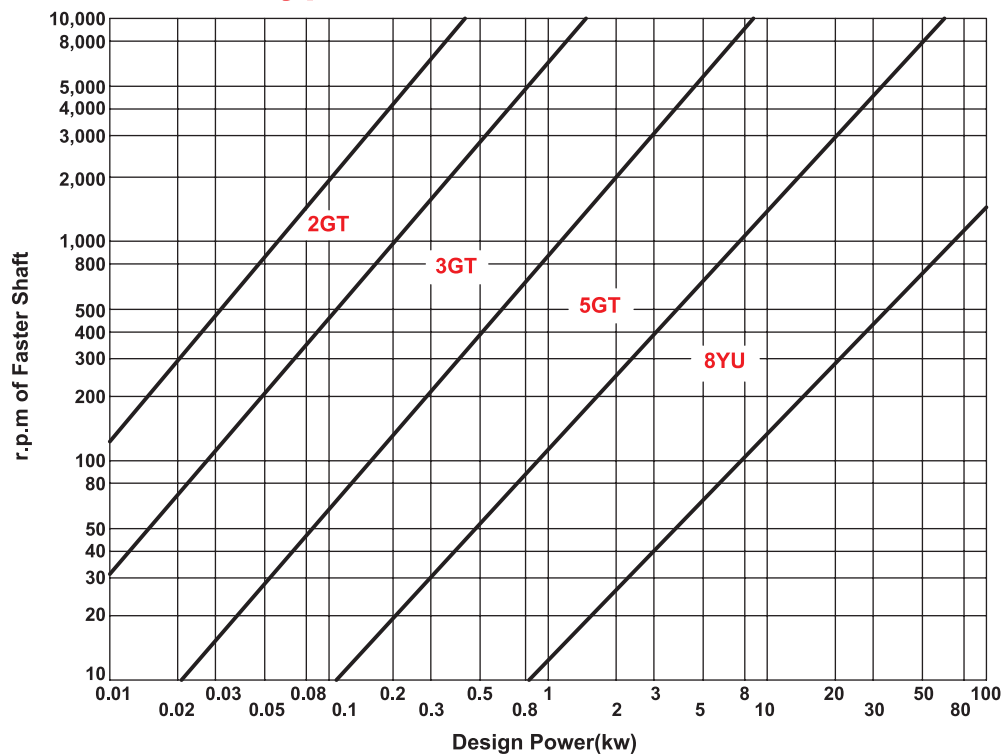
一、紫、紅標註表示英制與美制鍵槽不同之尺寸，美制軸孔範圍也不同，需仔細比對。

二、深度標註()者為配合TB部份較大孔徑，需採用較淺(Shallow)之槽深

1u=0.001mm

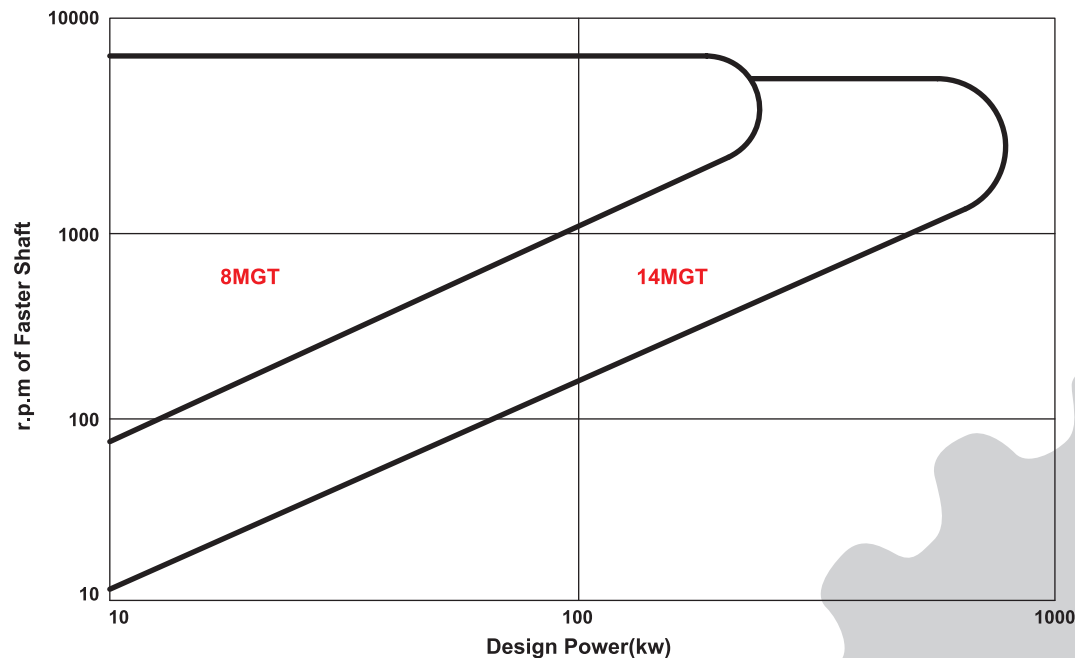
稱呼尺寸 區分(mm)	孔公差(u) 軸公差(u)			
	H7		G6	
	+	-	+	-
1-3	9	0	10	3
4-6	12	0	12	4
7-10	15	0	14	5
11-18	18	0	17	6
19-30	21	0	20	7
31-50	25	0	25	9
51-80	30	0	29	10
81-120	35	0	34	12
121-180	40	0	39	14
181-250	46	0	44	15
251-315	52	0	49	17
316-400	57	0	54	18
400-500	63	0	60	20

PG GT Type Belt Pitch Selection Guide



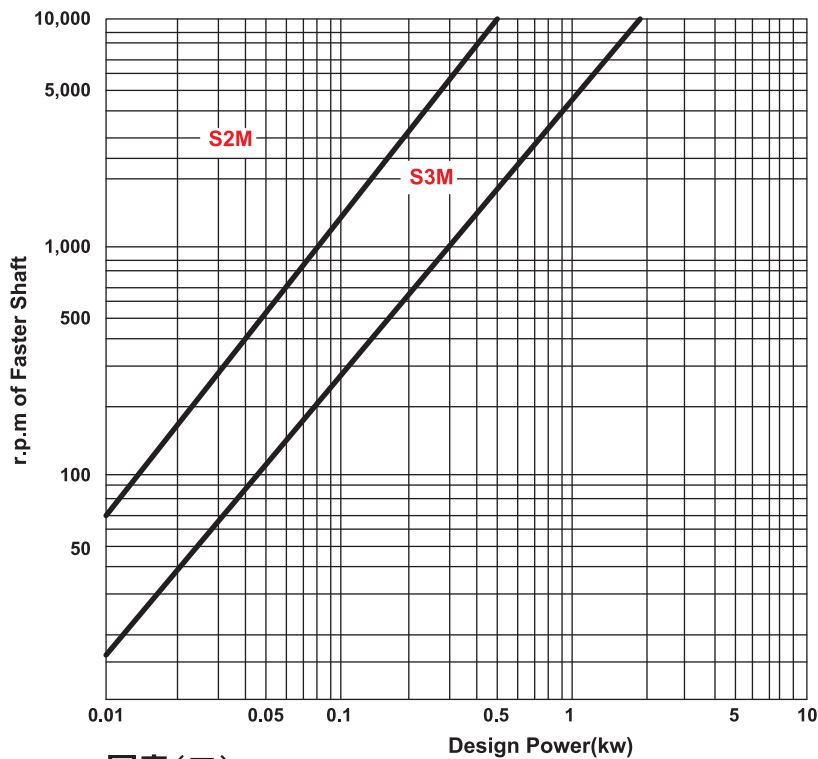
圖表(一)

PG GT2 Type Belt Pitch Selection Guide

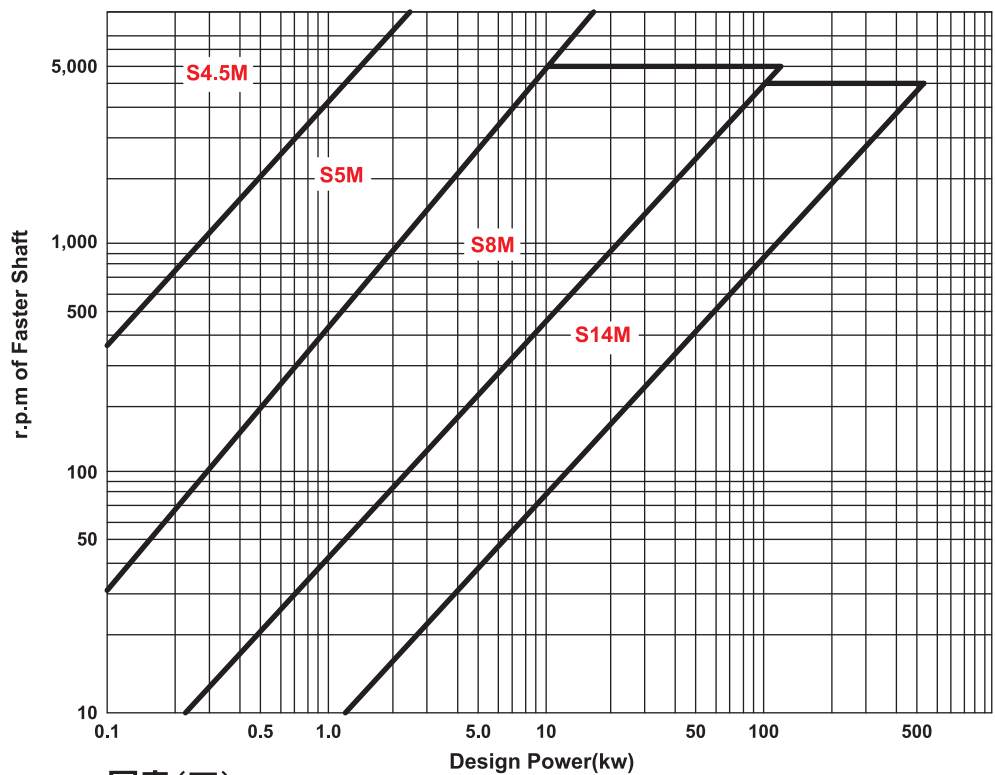


圖表(二)

STS Type Belt Pitch Selection Guide

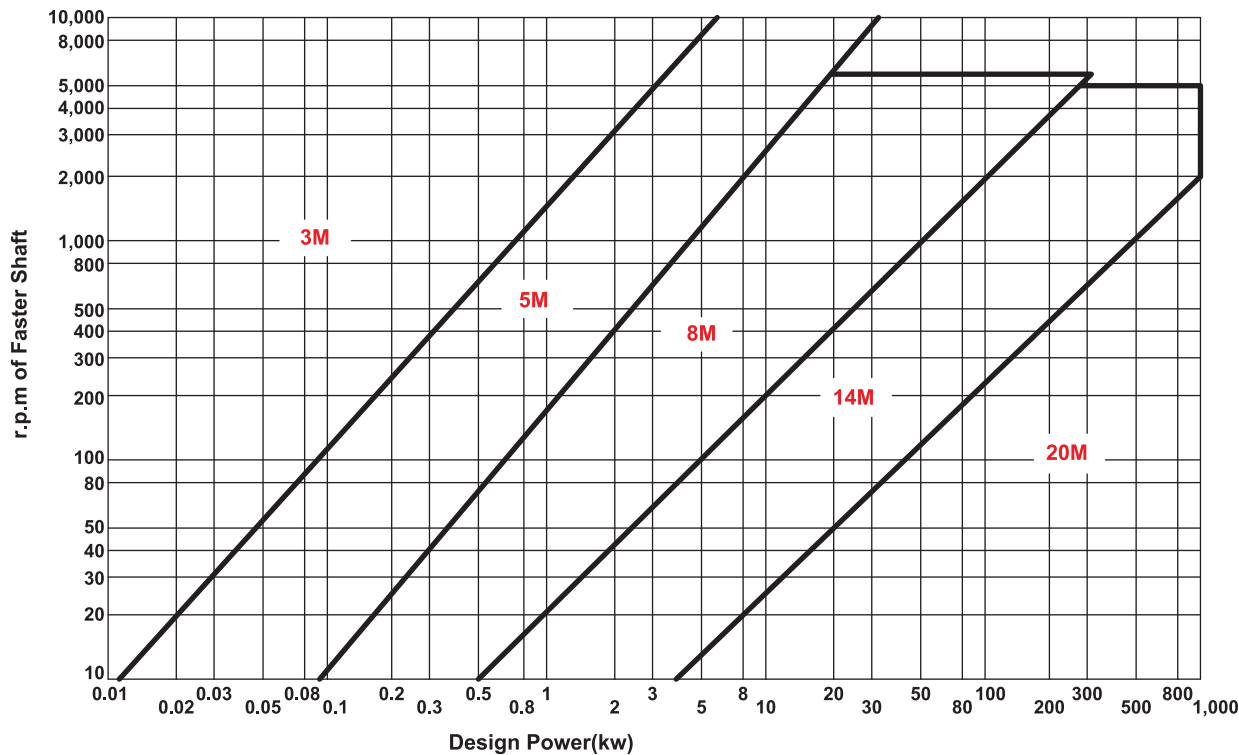


圖表(三)



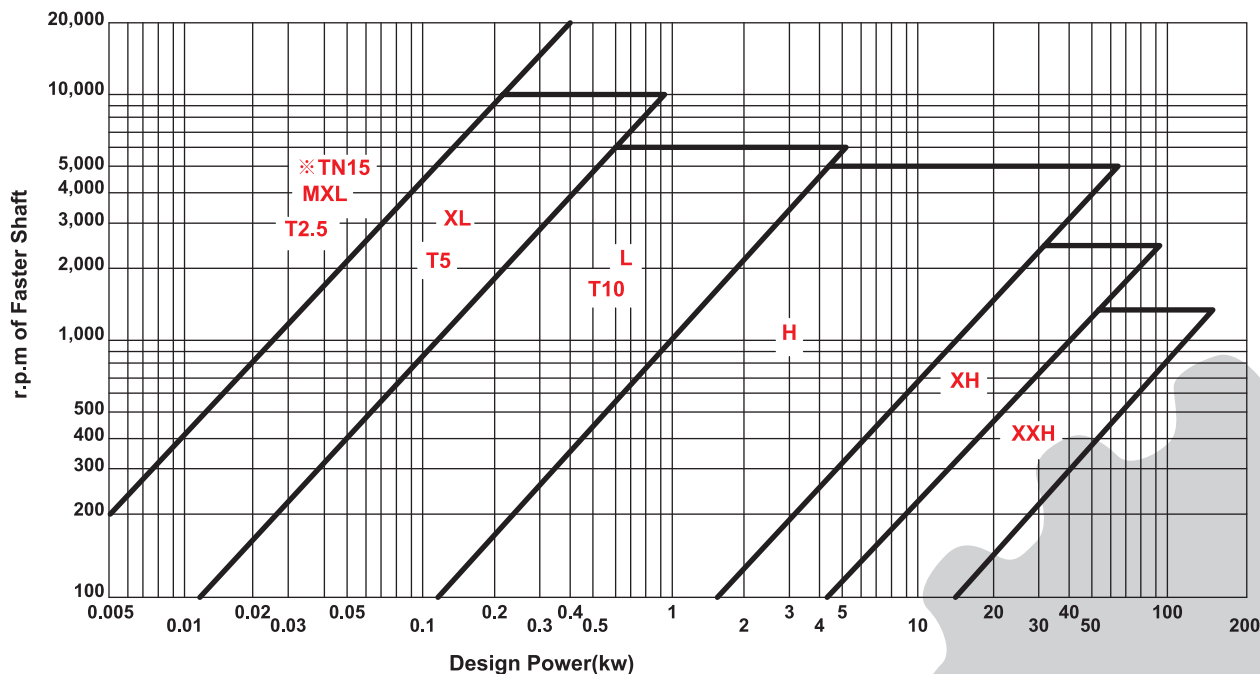
圖表(四)

HTD Type Belt Pitch Selection Guide



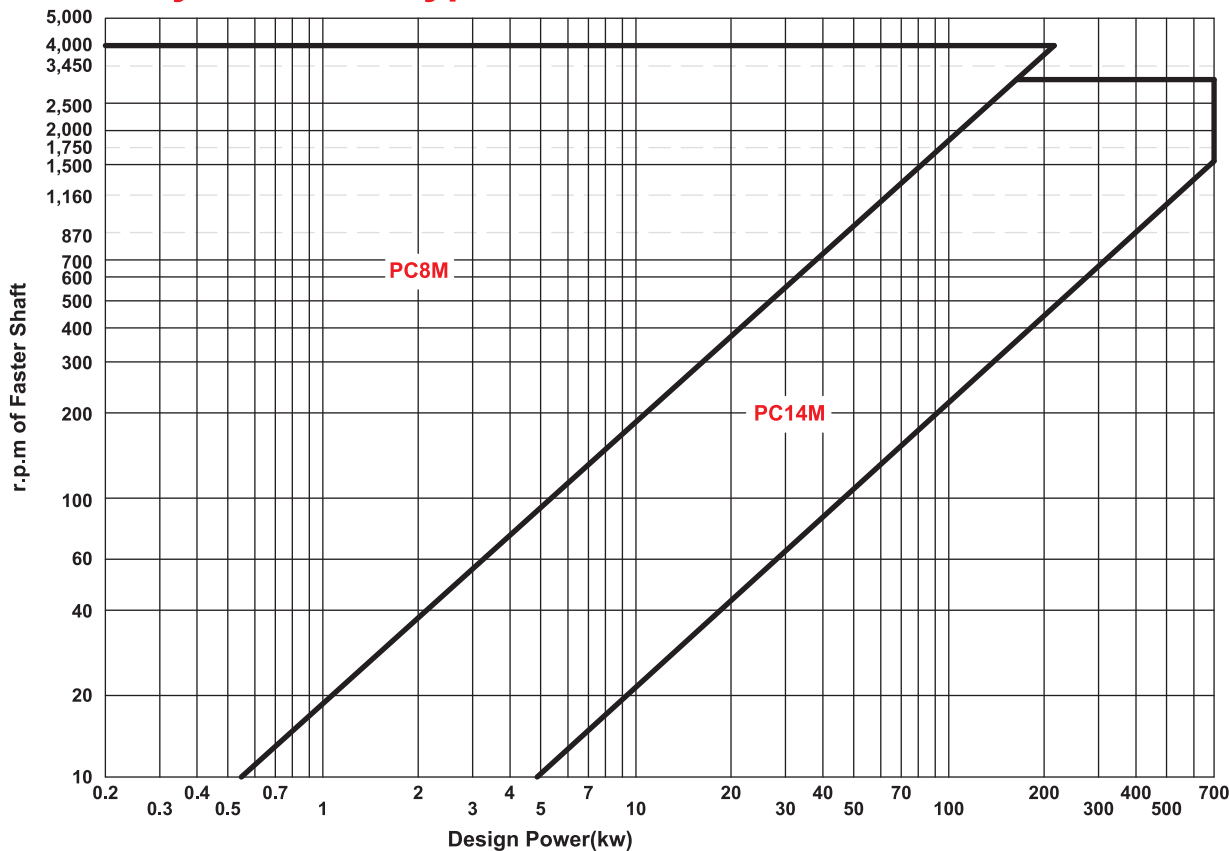
圖表(五)

Classical TM Type Belt Pitch Selection Guide



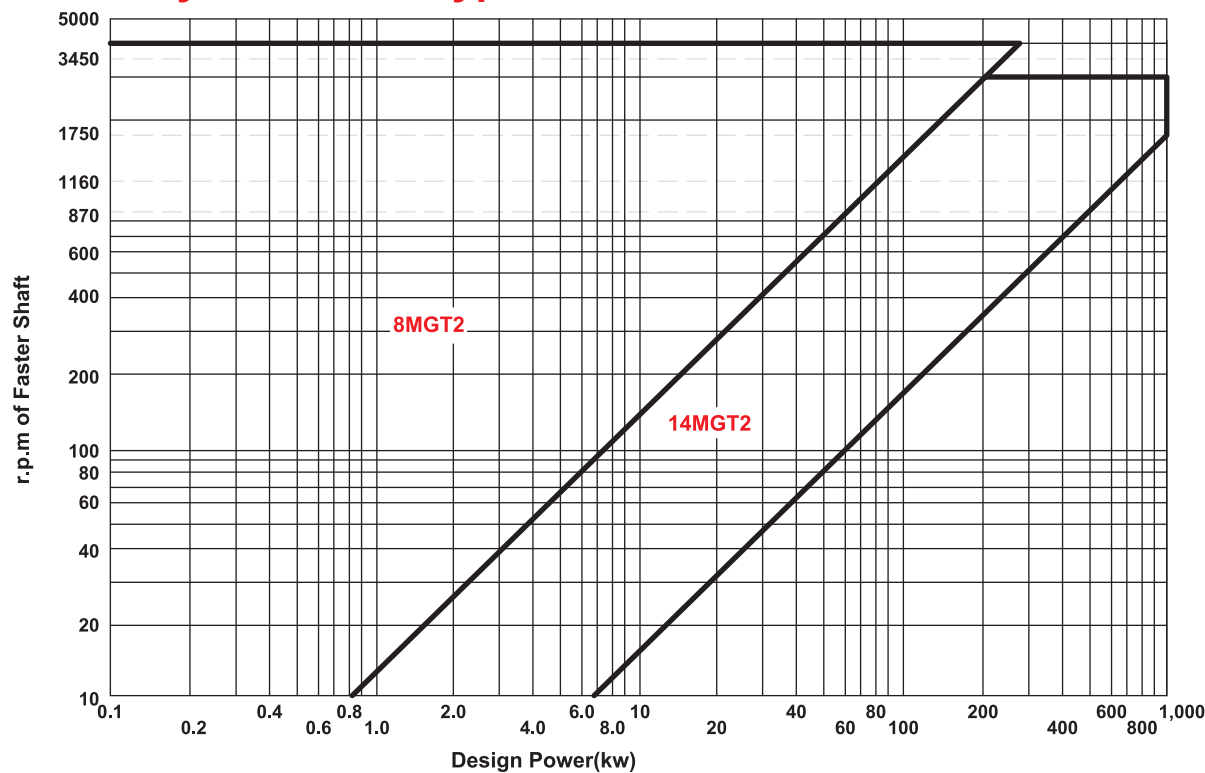
圖表(六)

PolyChain GT Type Belt Pitch Selection Guide

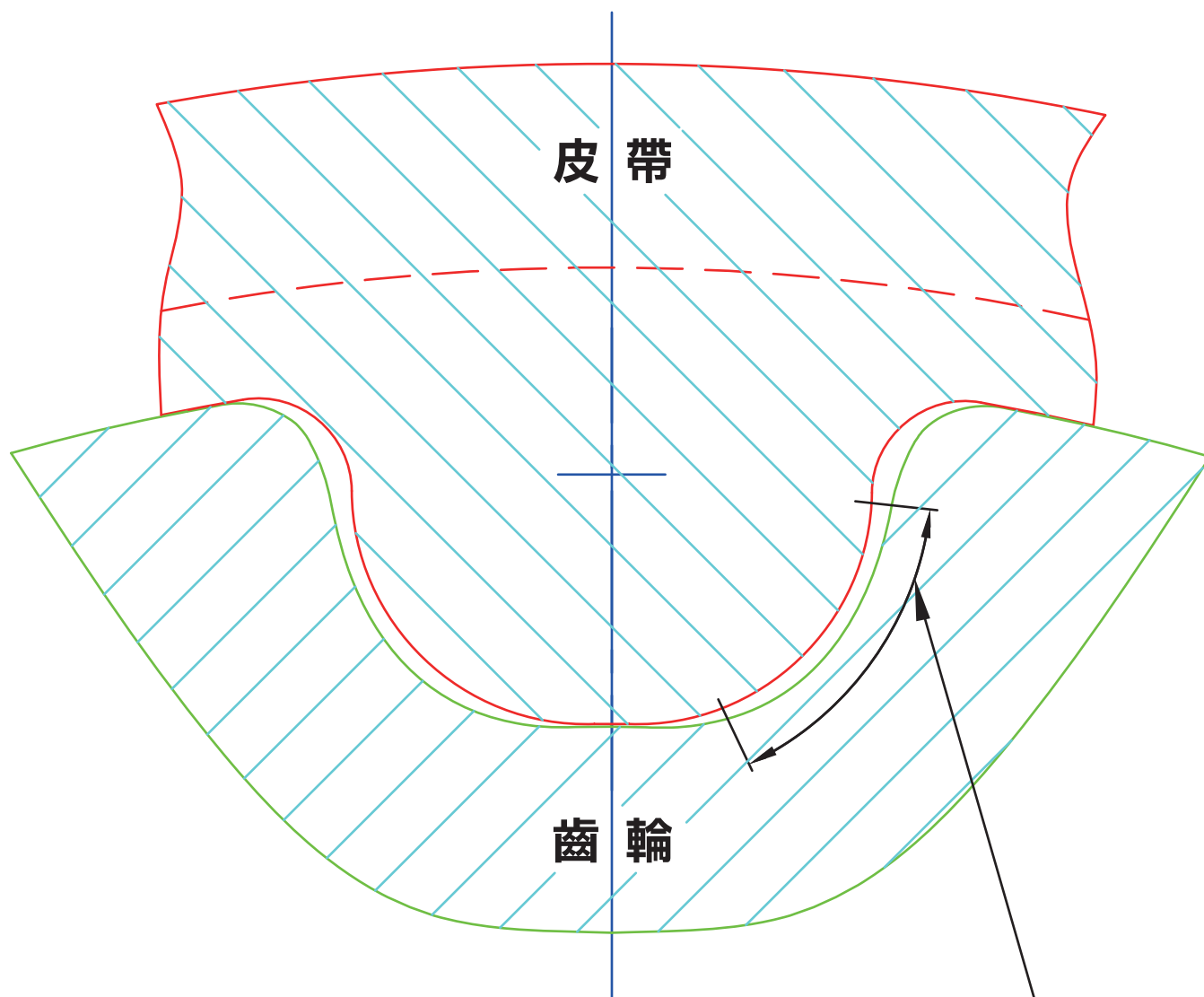


圖表(七)

PolyChain GT2 Type Belt Pitch Selection Guide



圖表(八)



皮帶與齒輪嚙合面

當皮帶齒在受力傳動後會產生一定的變形量，齒輪齒幅的標準，乃在受力傳動後能與皮帶完全嚙合。



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