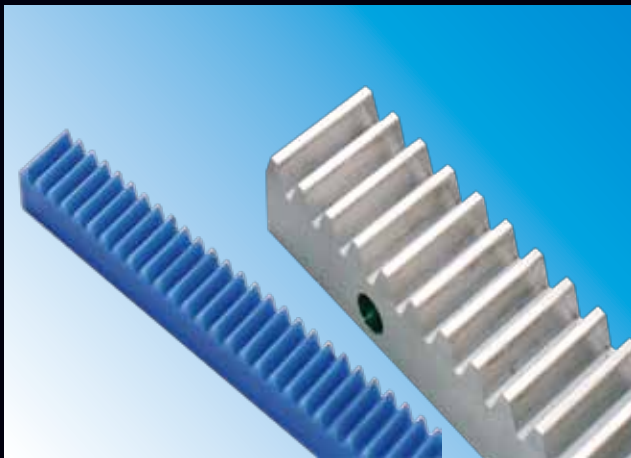


全球專業齒條製造商 **Global Professional Rack Manufacturer**



原億昌機械股份有限公司
YUAN YI CHANG Machinery Co., Ltd.



三次元檢測儀器
Cubic Measuring Machine



滾齒機
Tooth Grinding Machine



齒面研磨機
Rack Processing Machine



公司簡介

Company Profile

公司沿革：

1980年	創立億昌機械廠，使用傳統銑床加工齒條。
1983年	使用步進馬達定位傳動加工。
1989年	遷移新廠。
1992年	改名為原億昌機械廠。
1993年	淘汰傳統機台，使用CNC齒條切削機。同時導入生產管理電腦資訊系統。
1993年	已增設至4台CNC設備、NC自動齒條壓直機
2006年	增設至1台CNC齒條成型研磨機，增設6台CNC齒條切削機
2009年	導入ISO9001 體系品質認證。增設一台CNC齒面研磨機

專業化經營：

●	全國唯一專業齒條加工製作佔全國生產工作母機市場60%。
●	工作母機包含車床、洗床、CNC、平面磨床等外銷到世界各地的運動生產機械。
●	豐富產業機械齒條生產經驗。塑膠業、包裝業、製紙業... 各種機械傳動所需齒條。

全面性技術：

●	齒條(排齒)承製、加工，成品加工。
●	模數M0.5~M12齒條。
●	可依客戶圖面、樣品訂做。

我們擁有專業的技術品質，優秀的產品精確度，多年的豐富經驗，良好的產業前景。歡迎世界各國廠商、貿易商合作生產。



生产设备

Products Entries

本公司產品製造過程均採用各項優良機具與專業技術，在嚴密的監督及品質管制之運作下，完成深具水準之產品。

●	本公司採專業齒條滾齒機,可加工 MP0.5~MP12 之大型齒條(排齒)，長度可一次加工二米長，為島內之最大型及最精密CNC齒條加工機。
●	NC齒條加工機，精密度JIS 3級~4級(日規)
●	刀具研磨機
●	齒條自動壓直機
●	硬度測試機 三次元檢驗儀器.....等，多種測量儀器

本公司於2006年增設一齒條研磨機，為客戶提供更精準、精密規格之產品。精度可達JIS1級(日規)歐規4級,可做齒面研磨,表面粗度0.6-0.8



产品用途

Purpose Services

●	本公司所加工生產之產品，可用於紡織業、產業機械、五金、工作母機、汽車業... 等所需的齒條上。
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Introduction

Company Profile

HISTORY :

1980	Established Yi Chang Machinery specialized in rack manufacturing with traditional milling machines.
1983	Applied stepper motors to position, transmit, and process.
1989	Moved in to current factory.
1992	Renamed “Yuan Yi Chang Machinery Co., Ltd.”
1993	Traditional machines were replaced of CNC gear cutting machines. Production system is computerized.
1993	6 CNC machines and NC automatic rack straightening machine built up.
2009	Transforming into ISO 9001 international quality certificate. One CNC Tooth Grinding Machine building up.

Professional Management :

●	Global profession rack manufacturer in Taiwan sharing 60% locally.
●	Main customers: manufacturers of lathing, drilling, cutting, and milling, grinding, printing machines; automatic robot systems, storage systems.
●	With 3 decade experiences and exporting to Europe, USA, Japan, Australia, South Africa, China and so on.

Diversity Technology:

●	Rack manufacturing and processing; finished product processing .
●	Rack modules from M0.5 to M12; precision can reach JIS Grade 1 to 4.
●	Customized by requested drawings.
We have professional technology, excellent quality, short delivery, competitive prices. Collaboration is welcome.	



Equipments

Products Entries

Entire manufacturing process of Yuan Yi Chang is carried out via all types of top machines and tools as well as specialized techniques, and strict quality control. We make excellent products.	
●	YYC racks ranging from MP0.5 to MP12, and single maximal processing length is 2 meters. The largest and the most accurate CNC rack processing machines in Taiwan.
●	NC rack processing machines of YYC precision is JIS Grade 3 to 4.
●	Cutting tools grinding machines
●	Automatic rack straightening machines
●	Various measuring instruments including hardness testers, and cubic measuring machine etc.
We built up one more tooth grinding machine in 2006 to provide our clients with more precise and more accurate products. Precision can reach JIS Grade 1 (Japan), DIN 5 (Europe). Tooth Ground can reach surface roughness to 0.6~0.8 um.	



Purpose

Purpose Services

●	YYC products can be applied for manufacturers of lathing, drilling, cutting, and milling, grinding, printing machines; automatic robot systems, storage systems.
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齒條裝配說明

為了可以更順利的安裝連接用齒條,標準齒條的兩端端面將會加工為半齒齒底;以方便跟下一支齒條的端面半齒齒底連接成一個全齒。下圖表示為兩支齒條如何連接並由齒規可以擁有準確的齒距位置。

關於斜齒齒條相接可以藉由反向齒規的配合以便可以精準的連接齒條。

1. 而在齒條安裝相接時,我們建議先鎖上齒條側面的安裝孔,並依照基座上相對應的孔位依序鎖上;並藉由安裝齒規可以很準確的將齒條的齒距位置安裝完成。

2. 最後再將齒條上的兩端側面的固定銷孔給固定上即完成安裝。

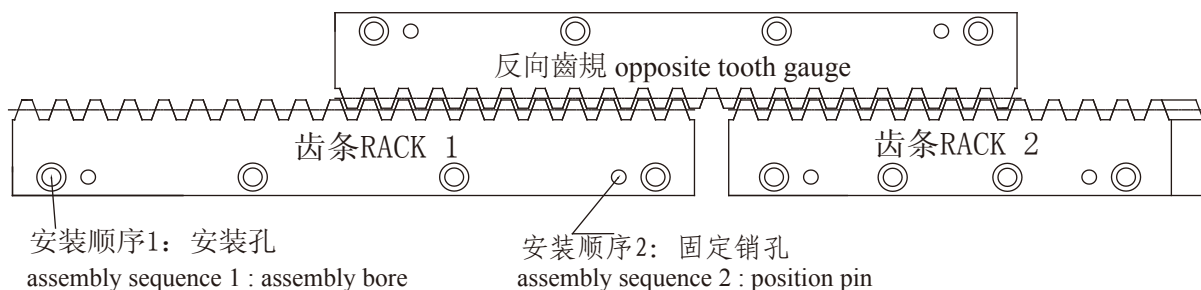
Instruction of Rack Assembly

To assemble connected racks more smoothly, 2 ends of a standard rack would add half tooth which is convenient for next half tooth of next rack to be connected to a complete tooth. The following drawing shows how 2 racks connect and tooth gauge can control pitch position accurately.

With regards to connection of helical racks, it can be connected accurately by opposite tooth gauge.





1. When connecting racks, we recommend lock bores on the sides of rack first, and lock bores by the sequence of the foundation. With assembling the tooth gauge, pitch position of racks can be assembled accurately and completely.

2. Last, lock the position pins on 2 sides of rack; the assembly is completed.







齒條型號說明 **Rack Code Instruction**

材料 Material	齒型 Rack Type	棒形 Shape	齒面處理 Treatment of Tooth	硬度處理 Hardness	模數 Module	長度 Length	鑽孔 Holes
C ↓	S ↓	T ↓	G ↓	H/Q ↓	20 ↓	50 ↓	N ↓
C=S45C	S=直齒 Straight 	T=四角棒 Tetragon 	G=研磨 Ground	H=硬化處理 Hardened	1	50=500mm	N=無鑽孔 No Holes
M=SCM440	H=斜齒 Helical 	R=圓棒 Round 	M=精銑 Milled	Q=調質 Tempered & quenched 無硬度處理 Without Hardness	1.5 2 2.5 3 4 5 6 8 10	10=1,000mm	



齒輪型號說明 Gear Code Instruction

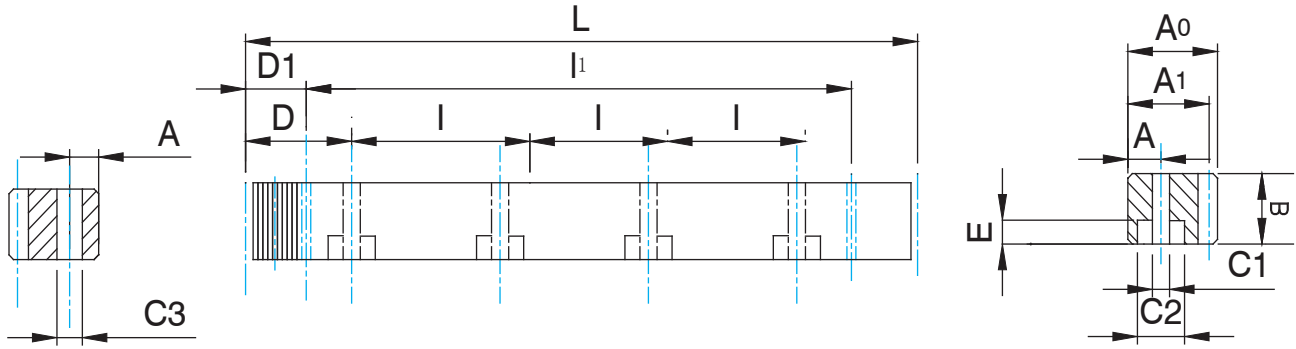
材料 Material	齒型 Rack Type	齒面處理 Treatment of Tooth	熱處理 Heat treatment	帶軸齒輪 shaft gear	模數 Module	齒數 NO.of teeth	序號 serial NO.
C ↓	S ↓	G	H ↓	L	20 ↓	16 ↓	1 2
C=S45C	S=直齒 Straight 	G=研磨 Ground	熱處理 Heat treatment	L=帶軸齒輪 with shaft	1	16	3
M=SCM440 (此种材质皆调质)	H=斜齒 Helical 	M=精銑 Milled	無熱處理 Without treatment	無 Without	1.5	18	4
					2	20	.....
					2.5	22	
					3	25	
					4	28	
					5	32	
					6	36	
					8	40	
					



型號 Code	材料 Material	齒型 Type	棒形 Shape	模數 Module	齒面處理 Treatment of Tooth	硬度處理 Hardness	精度等級 Precision Grade JIS	頁碼 Page	
	CSTGH	S45C	直齒 Straight	四角棒 Tetragon	2,3,4,5,6,8,10	研磨 Ground	熱處理 With H	6h25	1
	CSTMQ	S45C	直齒 Straight	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	調質 With Q	7e25	2
	CSTMQ	S45C	直齒 Straight	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	調質 With Q	8e27	3
	CSTM	S45C	直齒 Straight	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	無 Without H	9e27	4
	CSTMH	S45C	直齒 Straight	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	熱處理 With H	10e27	5
	CHTGH	S45C	斜齒 Helical	四角棒 Tetragon	2,3,4,5,6,8,10	研磨 Ground	熱處理 With H	6h25	6
	CHTMQ	S45C	斜齒 Helical	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	調質 With Q	7e25	7
	CHTMQ	S45C	斜齒 Helical	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	調質 With Q	8e27	8
	CHTM	S45C	斜齒 Helical	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	無 Without H	9e27	9
	CHTMH	S45C	斜齒 Helical	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	熱處理 With H	10e27	10
	CSRMQ	S45C	直齒 Straight	圓棒 Roound	1,1.5,2,2.5,3,4,5	精銑 Milled	調質 With Q	8e27	11
	CSRM	S45C	直齒 Straight	圓棒 Roound	1,1.5,2,2.5,3,4,5	精銑 Milled	無 Without H	9e27	12
	MSTGH	SCM440	直齒 Straight	四角棒 Tetragon	2,3,4,5,6,8,10	研磨 Ground	熱處理 With H	6h25	13
	MSTGQ	SCM440	直齒 Straight	四角棒 Tetragon	2,3,4,5,6,8,10	研磨 Ground	調質 With Q	7e25	14
	MSTGQ	SCM440	直齒 Straight	四角棒 Tetragon	2,3,4,5,6,8,10	研磨 Ground	調質 With Q	8e27	15
	MSTM	SCM440	直齒 Straight	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	無 Without H	9e27	16
	MSTMH	SCM440	直齒 Straight	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	熱處理 With H	10e27	17
	MHTGH	SCM440	斜齒 Helical	四角棒 Tetragon	2,3,4,5,6,8,10	研磨 Ground	熱處理 With H	6h25	18
	MHTMQ	SCM440	斜齒 Helical	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	調質 With Q	7e25	19
	MHTMQ	SCM440	斜齒 Helical	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	調質 With Q	8e27	20
	MHTM	SCM440	斜齒 Helical	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	無 Without H	9e27	21
	MHTMH	SCM440	斜齒 Helical	四角棒 Tetragon	2,3,4,5,6,8,10	精銑 Milled	熱處理 With H	10e27	22
	MSRMQ	SCM440	直齒 Straight	圓棒 Roound	1,1.5,2,2.5,3,4,5	精銑 Milled	調質 With Q	8e27	23
	MSRM	SCM440	直齒 Straight	圓棒 Roound	1,1.5,2,2.5,3,4,5	精銑 Milled	無 Without H	9e27	24



	型號 Code	材料 Material	齒型 Type	模數 Module	齒面處理 Treatment of Tooth	熱處理 Heat treatment	精度等級 Precision Grade JIS	頁碼 Page
	CSGH	S45C	直齒 Straight	2,3,4,5,6	研磨 Ground	熱處理 With H	7e25	25-29
	CHGH	S45C	斜齒 Helical	2,3,4,5,6,8	研磨 Ground	熱處理 With H	7e25	30-32
	CSM	S45C	直齒 Straight	1,1.5,2,2.5,3,4,5,6,8	精銑 Milled	無 Without H	8e25	33-40
	CHM	S45C	斜齒 Helical	2,3,4,5,6,8	精銑 Milled	無 Without H	8e25	41
	MSGH	SCM440	直齒 Straight	2,3,4,5,6	研磨 Ground	熱處理 With H	7e25	42-46
	MHGH	SCM440	斜齒 Helical	2,3,4,5,6,8	研磨 Ground	熱處理 With H	7e25	47-49
	MSM	SCM440	直齒 Straight	1,1.5,2,2.5,3,4,5,6,8	精銑 Milled	無 Without H	8e25	50-57
	MHM	SCM440	斜齒 Helical	2,3,4,5,6,8	精銑 Milled	無 Without H	8e25	58
	CSGHL	S45C	直齒 Straight	2,3,4,5,6	研磨 Ground	熱處理 With H	6e25	59-60
	CHGHL	S45C	斜齒 Helical	2,3,4,5,6	研磨 Ground	熱處理 With H	6e25	61-62
	MSGHL	SCM440	直齒 Straight	2,3,4,5,6	研磨 Ground	熱處理 With H	6e25	63-64
	MHGHL	SCM440	斜齒 Helical	2,3,4,5,6	研磨 Ground	熱處理 With H	6e25	65-66



單位/Dimension: mm

型號 Code	模數 Module	L	齒數 Tooth No.	B	A0	A1	D	l	孔數 Hole No.	A	C1	C2	E	D1	l1	C3	總齒距誤差 Pitch Error /300mm
CSTGH 20 50	2	502.65	80	24	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7	0.022
CSTGH 20 10	2	1005.31	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7	0.022
CSTGH 30 50	3	508.94	54	29	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7	0.024
CSTGH 30 10	3	1017.88	108	29	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7	0.024
CSTGH 40 50	4	502.65	40	39	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7	0.025
CSTGH 40 10	4	1005.31	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7	0.025
CSTGH 50 50	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7	0.025
CSTGH 50 10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945	11.7	0.025
CSTGH 60 50	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7	0.026
CSTGH 60 10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7	0.026
CSTGH 80 50	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7	0.027
CSTGH 80 10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952	19.7	0.027
CSTGH 10 10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7	0.028

製程說明：

精度等級：(JIS二級) 6h25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理; 硬度為45~50°度

四面研磨：有

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 2)6h25

Material: (S45C Medium Carbon Steel)C45

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment ; 45~50 degree.

Sides Ground: Included.

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如CSTGH2050N。

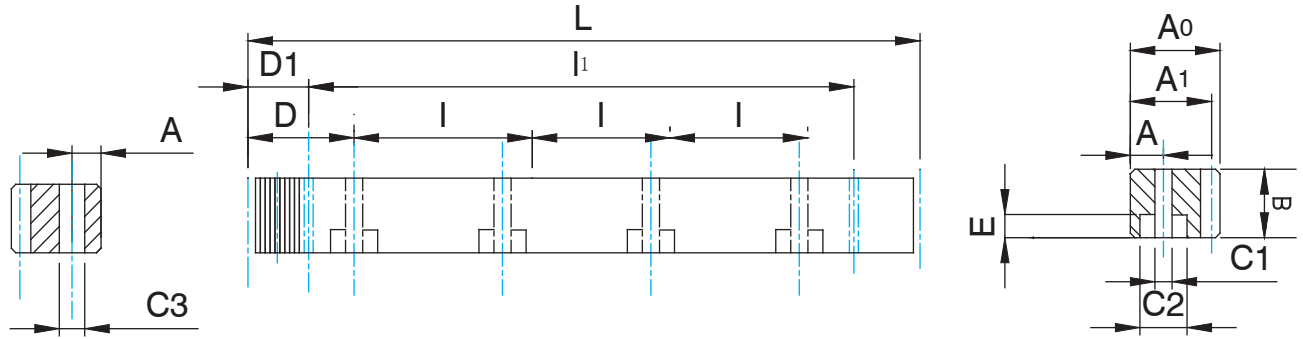
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. CSTGH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code	模數 Module	L	齒數 Teeth No.	B	A0	A1	D	l	孔數 HOLE No.	A	C1	C2	E	D1	l1	C3	總齒距誤差 Pitch Error /300mm
CSTMQ 20 50	2	502.65	80	25	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7	
CSTMQ 20 10	2	1005.31	160	25	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7	
CSTMQ 30 50	3	508.94	54	30	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7	
CSTMQ 30 10	3	1017.88	108	30	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7	
CSTMQ 40 50	4	502.65	40	40	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7	
CSTMQ 40 10	4	1005.31	80	40	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7	
CSTMQ 50 50	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7	
CSTMQ 50 10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945.0	11.7	
CSTMQ 60 50	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7	
CSTMQ 60 10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7	
CSTMQ 80 50	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7	
CSTMQ 80 10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952	19.7	
CSTMQ 10 10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7	

製程說明：

精度等級：(JIS 三級)7e25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：精銑

硬度處理：調質處理

四面研磨：有

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade3) 7e25

Material: (S45C Medium Carbon Steel) C45

Type: Straight Rack

Treatment of Teeth: Milled

Hardness: quenched

Sides Ground: Included.

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如CSTMH2050N。

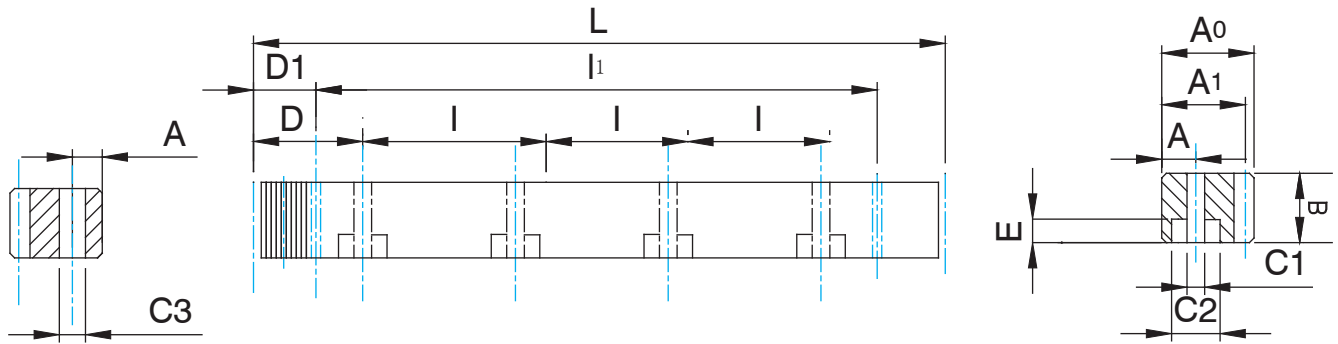
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. CSTMH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code	模數 Module	L	齒數 Teeth No.	B	A0	A1	D	I	孔數 HOLE No.	A	C1	C2	E	D1	l1	C3	總齒距誤差 Pitch Error /300mm		
CSTMQ	20	50	2	502.65	80	25	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7	0.044
CSTMQ	20	10	2	1005.31	160	25	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7	0.044
CSTMQ	30	50	3	508.94	54	30	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7	0.046
CSTMQ	30	10	3	1017.88	108	30	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7	0.046
CSTMQ	40	50	4	502.65	40	40	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7	0.048
CSTMQ	40	10	4	1005.31	80	40	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7	0.048
CSTMQ	50	50	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7	0.050
CSTMQ	50	10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945.0	11.7	0.050
CSTMQ	60	50	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7	0.055
CSTMQ	60	10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7	0.055
CSTMQ	80	50	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7	0.060
CSTMQ	80	10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952	19.7	0.060
CSTMQ	10	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7	0.065

製程說明：

精度等級：(JIS四級)8e27

材料：(S45C中碳鋼)C45

齒型：直齒

齒面處理：精銑

硬度處理：調質處理

四面研磨：無

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade4) 8e27

Material: (S45C Medium Carbon Steel) C45

Type: Straight Rack

Treatment of Teeth: Milled

Hardness: quenched

Sides Ground: not included.

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如CSTMH2050N。

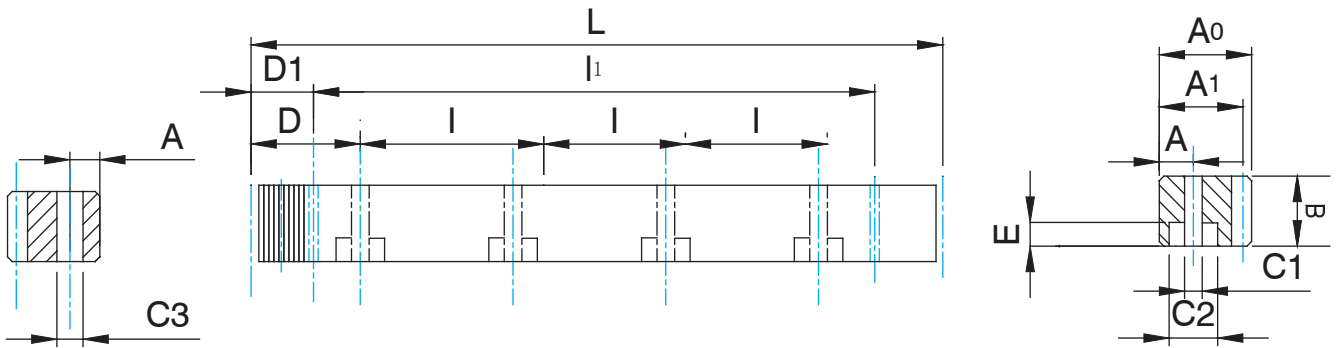
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. CSTMH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code	模號 Module	L	齒數 Teeth No.	B	A0	A1	D	I	孔數 HOLE No.	A	C1	C2	E	D1	I1	C3	總齒距誤 差 Pitch Error /300mm		
CSTM	20	50	2	502.65	80	20	20	18	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7	0.059
CSTM	20	10	2	999.03	159	20	20	18	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7	0.061
CSTM	30	50	3	508.94	54	30	30	27	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7	0.065
CSTM	30	10	3	1017.88	108	30	30	27	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7	0.065
CSTM	40	50	4	502.65	40	40	40	36	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7	0.068
CSTM	40	10	4	1005.31	80	40	40	36	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7	0.068
CSTM	50	50	5	502.65	32	50	40	35	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7	0.070
CSTM	50	10	5	1005.31	64	50	40	35	62.83	125.66	8	12	14	20	13	30.1	945	11.7	0.070
CSTM	60	50	6	508.94	27	60	50	44	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7	0.072
CSTM	60	10	6	1017.88	54	60	50	44	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7	0.072
CSTM	80	50	8	502.65	20	80	80	71.5	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7	0.075
CSTM	80	10	8	1005.31	40	80	80	71.5	62.83	125.66	8	25	22	33	21	26.6	952	19.7	0.075
CSTM	10	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7	0.080

製程說明：

精度等級：(JIS 五級)9e27

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：精銑

硬度處理：無

四面研磨：無

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 5) 9e27

Material: (S45C Medium Carbon Steel)C45

Type: Straight Rack

Treatment of Teeth: Milled

Hardness: No heat treatment.

Sides Ground: not included.

Pressure Angle: 20 degree

*亦供應無鑽孔的齒條，請於型號後加註"N"，如CSTM2050N。

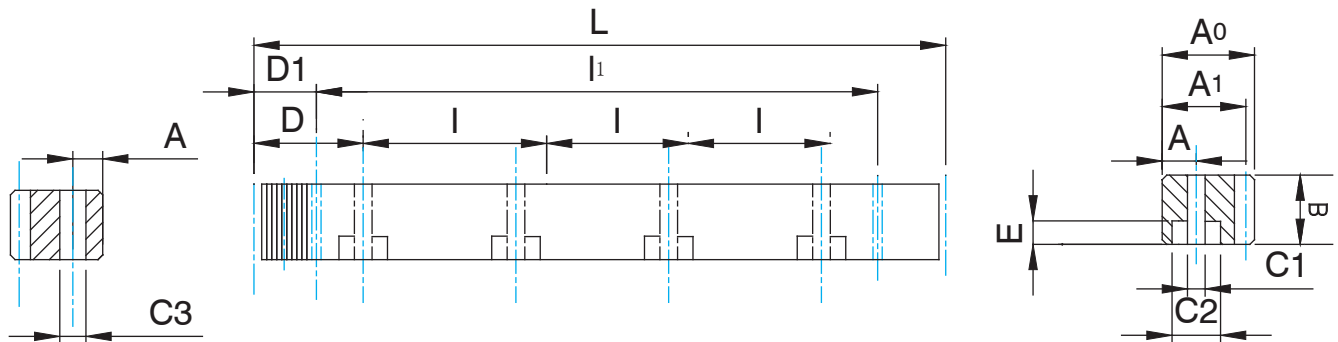
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. CSTM2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code		模數 Module	L	齒數 Teeth No.	B	A0	A1	D	l	孔數 HOLE No.	A	C1	C2	E	D1	l1	C3	總齒距誤差 Pitch Error /300mm
CSTMH	20	50	2	502.65	80	24	24	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7	0.086
CSTMH	20	10	2	1005.31	160	24	24	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7	0.086
CSTMH	30	50	3	508.94	54	29	29	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7	0.091
CSTMH	30	10	3	1017.88	108	29	29	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7	0.091
CSTMH	40	50	4	502.65	40	39	39	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7	0.095
CSTMH	40	10	4	1005.31	80	39	39	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7	0.095
CSTMH	50	50	5	502.65	32	49	39	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7	0.098
CSTMH	50	10	5	1005.31	64	49	39	62.83	125.66	8	12	14	20	13	30.1	945	11.7	0.098
CSTMH	60	50	6	508.94	27	59	49	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7	0.100
CSTMH	60	10	6	1017.88	54	59	49	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7	0.100
CSTMH	80	50	8	502.65	20	79	79	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7	0.105
CSTMH	80	10	8	1005.31	40	79	79	62.83	125.66	8	25	22	33	21	26.6	952	19.7	0.105
CSTMH	10	10	10	1005.31	32	99	99	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7	0.110

製程說明：

精度等級：(JIS 六級)10e27

材料：(S45C 中碳鋼) C45

齒型：直齒

齒面處理：精銑

硬度處理：熱處理;硬度為 45~50度

四面研磨：無

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 6) 10e27

Material: (S45C Medium Carbon Steel) C45

Type: Straight Rack

Treatment of Teeth: Milled

Hardness: Heat treatment ; 45~50 degree

Sides Ground: not included.

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如CSTMH2050N。

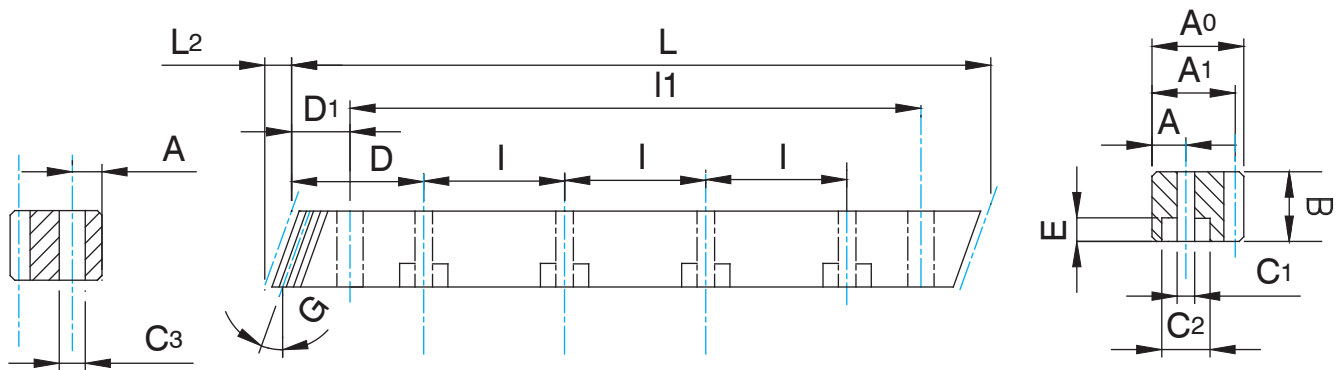
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. CSTMH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code		模數 Module	L	L2	齒數 Tooth No.	B	A0	A1	D	I	孔數 HOLE No.	A	C1	C2	E	D1	l1	C3	總齒距誤差 Pitch Error /300mm	
CHTGH	02	50	2	500.00	8.5	75	24	24	22	62.50	125	4	8	7	11	7	31.7	436.6	5.7	0.022
CHTGH	02	10	2	1000.00	8.5	150	24	24	22	62.50	125	8	8	7	11	7	31.7	936.6	5.7	0.022
CHTGH	03	50	3	500.00	10.3	50	29	29	26	62.50	125	4	9	10	15	9	35.0	430.0	7.7	0.024
CHTGH	03	10	3	1000.00	10.3	100	29	29	26	62.50	125	8	9	10	15	9	35.0	930.0	7.7	0.024
CHTGH	04	50	4	506.67	13.8	38	39	39	35	62.50	125	4	12	10	15	9	33.3	433.0	7.7	0.024
CHTGH	04	10	4	1000.00	13.8	75	39	39	35	62.50	125	8	12	10	15	9	33.3	933.4	7.7	0.024
CHTGH	05	50	5	500.00	17.4	30	49	39	34	62.50	125	4	12	14	20	13	37.5	425.0	11.7	0.025
CHTGH	05	10	5	1000.00	17.4	60	49	39	34	62.50	125	8	12	14	20	13	37.5	925.0	11.7	0.025
CHTGH	06	50	6	500.00	20.9	25	59	49	43	62.50	125	4	16	18	26	17	37.5	425.0	15.7	0.026
CHTGH	06	10	6	1000.00	20.9	50	59	49	43	62.50	125	8	16	18	26	17	37.5	925.0	15.7	0.026
CHTGH	08	50	8	480.00	28.0	18	79	79	71	60.00	120	4	25	22	33	21	120.0	240.0	19.7	0.027
CHTGH	08	10	8	960.00	28.0	36	79	79	71	60.00	120	8	25	22	33	21	120.0	720.0	19.7	0.027
CHTGH	10	10	10	1000.00	35.11	30	99	99	89	62.50	125	8	32	33	48	32	125.0	750.0	19.7	0.03

製程說明：

精度等級：(JIS二級)6h25

材料：(S45C中碳鋼)C45

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理，硬度可達 45~50度

四面研磨：有

右旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 2) 6h25

Material: (S45C Medium Carbon Steel)C45

Type: Helical Rack

Treatment of Teeth: Ground

Hardness: Heat treatment; 45~50 degree

Sides Ground: Included.

Right Hand Angle: 19°31'42"

Pressure Angle: 20 degree

*亦供應無鑽孔的齒條，請於型號後加註"N"，如CHTGH2050N。

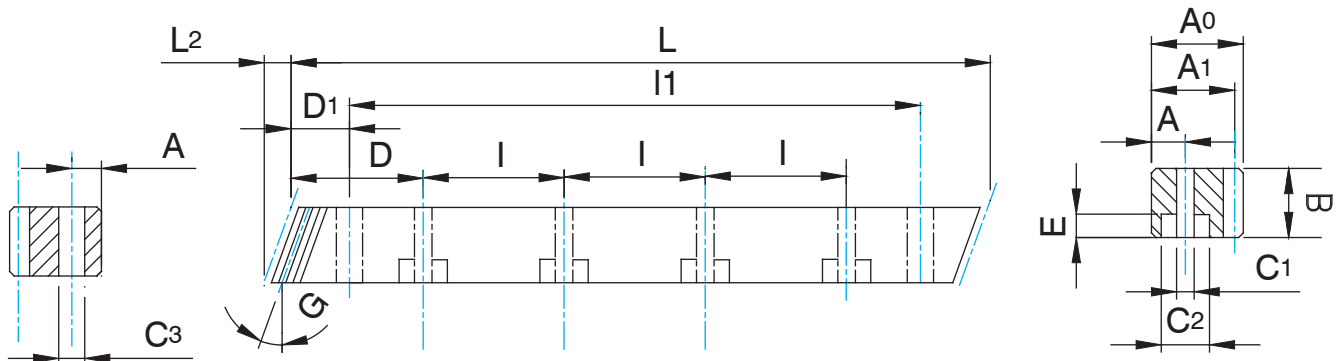
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:為每300mm齒距累積誤差的最高值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. CHTGH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code	模數 Module	L	L2	齒數 Tooth No.	B	A0	A1	D	I	孔數 Hole No.	A	C1	C2	E	D1	l1	C3	總齒距誤差 Pitch Error /300mm	
CHTMQ 02	50	2	500.00	8.9	75	25	24	22	62.5	125	4	8	7	11	7	31.7	436.6	5.7	
CHTMQ 02	10	2	1000.00	8.9	150	25	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.7	
CHTMQ 03	50	3	500.00	10.6	50	30	29	26	62.5	125	4	9	10	15	9	35.0	430.0	7.7	
CHTMQ 03	10	3	1000.00	10.6	100	30	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.7	
CHTMQ 04	50	4	506.67	14.2	38	40	39	35	62.5	125	4	12	10	15	9	33.3	433.0	7.7	
CHTMQ 04	10	4	1000.00	14.2	75	40	39	35	62.5	125	8	12	10	15	9	33.3	933.4	7.7	
CHTMQ 05	50	5	500.00	17.4	30	50	39	34	62.5	125	4	12	14	20	13	37.5	425.0	11.7	
CHTMQ 05	10	5	1000.00	17.4	60	50	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7	
CHTMQ 06	50	6	500.00	20.9	25	59	49	43	62.5	125	4	16	18	26	17	37.5	425.0	15.7	
CHTMQ 06	10	6	1000.00	20.9	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7	
CHTMQ 08	50	8	480.00	28.0	18	79	79	71	60.0	120	4	25	22	33	21	120.0	240.0	19.7	
CHTMQ 08	10	8	960.00	28.0	36	79	79	71	60.0	120	8	25	22	33	21	120.0	720.0	19.7	
CHTMQ 10	10	10	1000.00	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125.0	750.0	19.7	

製程說明：

精度等級：(JIS 三級)7e25

材料：(S45C中碳鋼)C45

齒型：斜齒

齒面處理：精銑

硬度處理：調質處理

四面研磨：有

右旋角:19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade3) 7e25

Material: (S45C Medium Carbon Steel)C45

Type: Helical Rack

Treatment of Teeth: Milled

Hardness: quenched

Sides Ground:Included.

Right Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如CHTMH2050N。

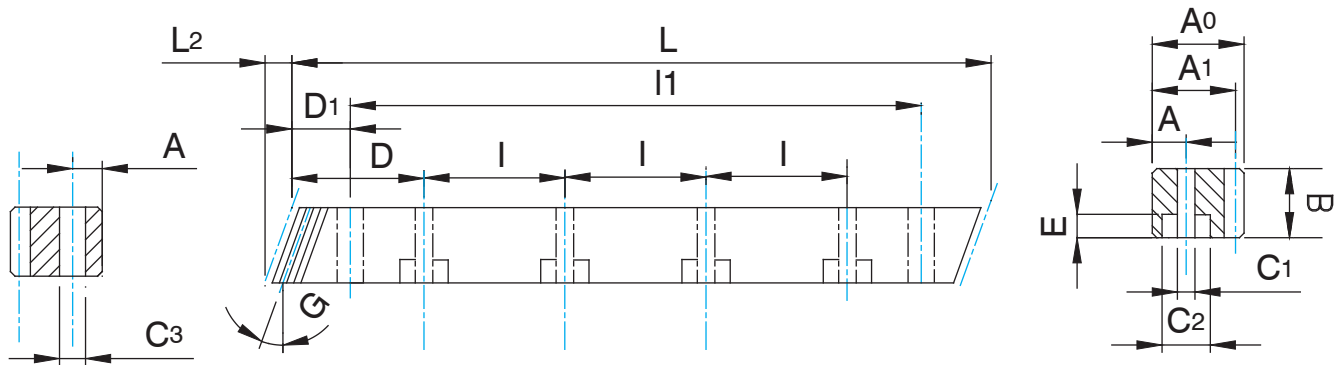
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. CHTMH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code	模數 Module	L	L2	齒數 Tooth No.	B	A0	A1	D	I	孔數 Hole No.	A	C1	C2	E	D1	I1	C3	總齒距誤差 Pitch Error /300mm	
CHTMQ 02	50	2	500.00	8.9	75	25	24	22	62.5	125	4	8	7	11	7	31.7	436.6	5.7	0.044
CHTMQ 02	10	2	1000.00	8.9	150	25	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.7	0.044
CHTMQ 03	50	3	500.00	10.6	50	30	29	26	62.5	125	4	9	10	15	9	35.0	430.0	7.7	0.046
CHTMQ 03	10	3	1000.00	10.6	100	30	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.7	0.046
CHTMQ 04	50	4	506.67	14.2	38	40	39	35	62.5	125	4	12	10	15	9	33.3	433.0	7.7	0.048
CHTMQ 04	10	4	1000.00	14.2	75	40	39	35	62.5	125	8	12	10	15	9	33.3	933.4	7.7	0.048
CHTMQ 05	50	5	500.00	17.4	30	50	39	34	62.5	125	4	12	14	20	13	37.5	425.0	11.7	0.050
CHTMQ 05	10	5	1000.00	17.4	60	50	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7	0.050
CHTMQ 06	50	6	500.00	20.9	25	59	49	43	62.5	125	4	16	18	26	17	37.5	425.0	15.7	0.055
CHTMQ 06	10	6	1000.00	20.9	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7	0.055
CHTMQ 08	50	8	480.00	28.0	18	79	79	71	60.0	120	4	25	22	33	21	120.0	240.0	19.7	0.060
CHTMQ 08	10	8	960.00	28.0	36	79	79	71	60.0	120	8	25	22	33	21	120.0	720.0	19.7	0.060
CHTMQ 10	10	10	1000.00	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125.0	750.0	19.7	0.065

製程說明：

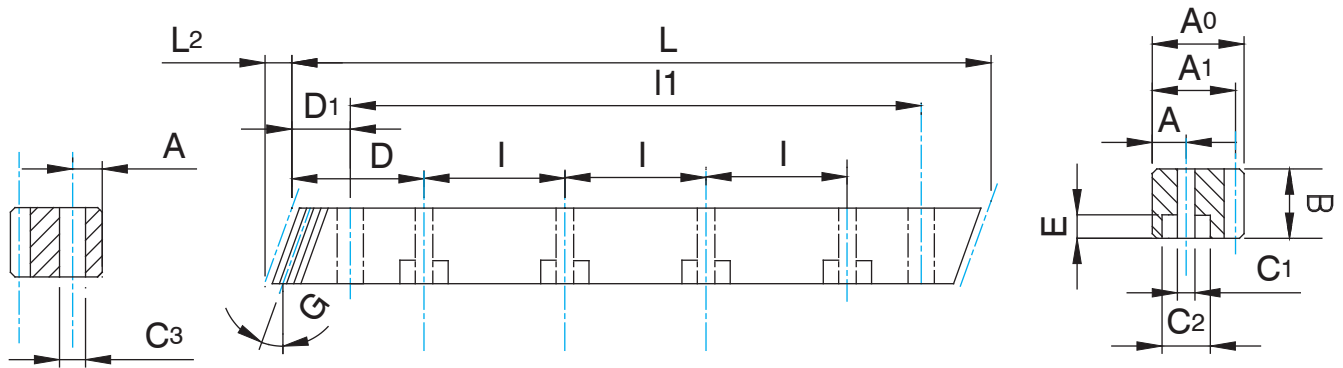
精度等級：(JIS 四級)8e27
 材料：(S45C中碳鋼) C45
 齒型：斜齒
 齒面處理：精銑
 硬度處理：調質處理
 四面研磨：無
 右旋角：19°31'42"
 壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade4) 8e27
 Material: (S45C Medium Carbon Steel)C45
 Type: Helical Rack
 Treatment of Teeth: Milled
 Hardness: quenched
 Sides Ground: not included.
 Right Hand Angle: 19°31'42"
 Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如CHTMH2050N。
 *不同尺寸與材質可以依照圖面客製。
 *總齒距誤差:每300mm齒距累積誤差的最高值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. CHTMH2050N.
 *Other Dimensions/Materials could be customized by drawings.
 *Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code		模數 Module	L	L2	齒數 Tooth No.	B	A0	A1	D	l	孔數 Hole No.	A	C1	C2	E	D1	l1	C3	總齒距誤差 Pitch Error /300mm
CHTM	02	50	2	500.00	9.2	75	26	24	62.5	125	4	8	7	11	7	31.7	436.6	5.7	0.061
CHTM	02	10	2	1000.00	9.2	150	26	24	62.5	125	8	8	7	11	7	31.7	936.6	5.7	0.061
CHTM	03	50	3	500.00	11.0	50	31	29	62.5	125	4	9	10	15	9	35.0	430.0	7.7	0.065
CHTM	03	10	3	1000.00	11.0	100	31	29	62.5	125	8	9	10	15	9	35.0	930.0	7.7	0.065
CHTM	04	50	4	506.67	14.5	38	41	39	62.5	125	4	12	10	15	9	33.3	433.0	7.7	0.068
CHTM	04	10	4	1000.00	14.5	75	41	39	62.5	125	8	12	10	15	9	33.3	933.4	7.7	0.068
CHTM	05	50	5	500.00	17.7	30	50	39	62.5	125	4	12	14	20	13	37.5	425.0	11.7	0.070
CHTM	05	10	5	1000.00	17.7	60	50	39	62.5	125	8	12	14	20	13	37.5	925.0	11.7	0.070
CHTM	06	50	6	500.00	21.3	25	60	49	62.5	125	4	16	18	26	17	37.5	425.0	15.7	0.072
CHTM	06	10	6	1000.00	21.3	50	60	49	62.5	125	8	16	18	26	17	37.5	925.0	15.7	0.072
CHTM	08	50	8	480.00	28.7	18	81	79	60	120	4	25	22	33	21	120.0	240.0	19.7	0.075
CHTM	08	10	8	960.00	28.7	36	81	79	60	120	8	25	22	33	21	120.0	720.0	19.7	0.075
CHTM	10	10	10	1000.00	35.11	30	99	99	62.5	125	8	32	33	48	32	125.0	750.0	19.7	0.080

製程說明：

精度等級：(JIS 五級)9e27

材料：(S45C中碳鋼)C45

齒型：斜齒

齒面處理：精銑

硬度處理：無

四面研磨：無

右旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 5) 9e27

Material: (S45C Medium Carbon Steel)C45

Type: Helical Rack

Treatment of Teeth: Milled

Hardness: No heat treatment.

Sides Ground: not included.

Right Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如CHTM2050N。

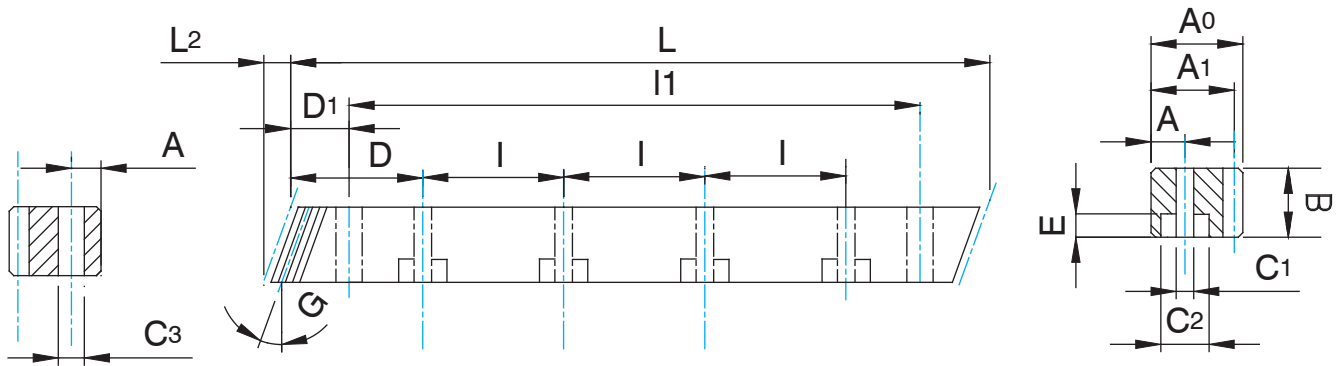
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. CHTM2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code		模數 Module	L	L2	齒數 Tooth No.	B	A0	A1	D	l	孔數 Hole No.	A	C1	C2	E	D1	l1	C3	總齒距誤差 Pitch Error /300mm	
CHTMH	02	50	2	500.00	8.5	75	24	24	22	62.5	125	4	8	7	11	7	31.7	436.6	5.7	0.086
CHTMH	02	10	2	1000.00	8.5	150	24	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.7	0.086
CHTMH	03	50	3	500.00	10.3	50	29	29	26	62.5	125	4	9	10	15	9	35.0	430.0	7.7	0.091
CHTMH	03	10	3	1000.00	10.3	100	29	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.7	0.091
CHTMH	04	50	4	506.67	13.8	38	39	39	35	62.5	125	4	12	10	15	9	33.3	433.0	7.7	0.095
CHTMH	04	10	4	1000.00	13.8	75	39	39	35	62.5	125	8	12	10	15	9	33.3	933.4	7.7	0.095
CHTMH	05	50	5	500.00	17.4	30	49	39	34	62.5	125	4	12	14	20	13	37.5	425.0	11.7	0.098
CHTMH	05	10	5	1000.00	17.4	60	49	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7	0.098
CHTMH	06	50	6	500.00	20.9	25	59	49	43	62.5	125	4	16	18	26	17	37.5	425.0	15.7	0.100
CHTMH	06	10	6	1000.00	20.9	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7	0.100
CHTMH	08	50	8	480.00	28.0	18	79	79	71	60.0	120	4	25	22	33	21	120	240.0	19.7	0.105
CHTMH	08	10	8	960.00	28.0	36	79	79	71	60.0	120	8	25	22	33	21	120	720.0	19.7	0.105
CHTMH	10	10	10	1000.00	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125	750.0	19.7	0.110

製程說明：

精度等級：(JIS六級)10e27

材料：(S45C 中碳鋼) C45

齒型：斜齒

齒面處理：精銑

硬度處理：熱處理，硬度為45~50度

四面研磨：無

右旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 6) 10e27

Material: (S45C Medium Carbon Steel)C45

Type: Helical Rack

Treatment of Teeth: Milled

Hardness: Heat treatment ; 45~50 degree.

Sides Ground: not included.

Right Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如CHTMH2050N。

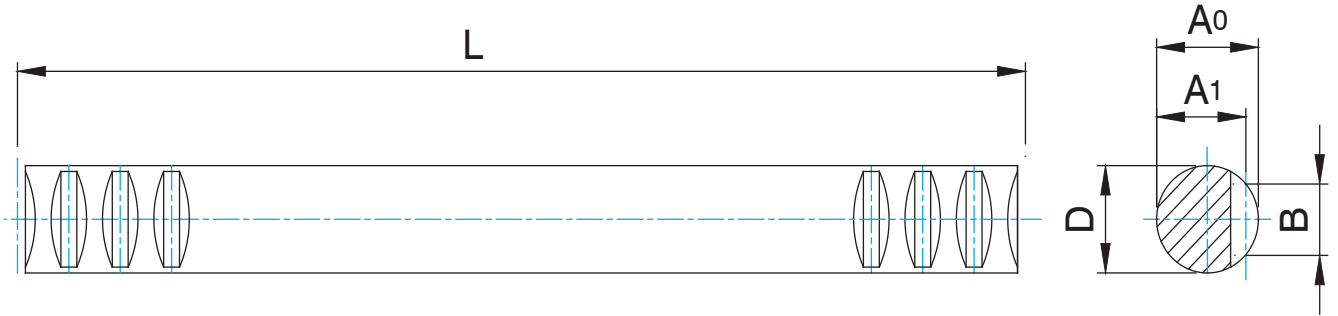
*不同尺寸與材質以可依照圖面客製化。

*總齒距誤差:每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. CHTMH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code			模數 Module	L	齒數 Tooth No.	D	B	A0	A1	總齒距誤差 Pitch Error /300mm
CSRMQ	10	50	1	499.50	159	10	6.0	9.9	8.9	0.040
CSRMQ	10	10	1	999.00	318	10	6.0	9.9	8.9	0.040
CSRMQ	15	50	1.5	499.50	106	15	9.0	14.9	13.4	0.042
CSRMQ	15	10	1.5	999.00	212	15	9.0	14.9	13.4	0.042
CSRMQ	20	50	2	502.70	80	20	12.0	19.8	17.8	0.044
CSRMQ	20	10	2	999.00	159	20	12.0	19.8	17.8	0.044
CSRMQ	25	50	2.5	502.70	64	25	15.0	25.0	22.5	0.046
CSRMQ	25	10	2.5	997.50	127	25	15.0	25.0	22.5	0.046
CSRMQ	30	50	3	499.50	53	30	18.0	29.8	26.8	0.046
CSRMQ	30	10	3	999.00	106	30	18.0	29.8	26.8	0.046
CSRMQ	40	50	4	502.60	40	40	24.0	40.0	36.0	0.048
CSRMQ	40	10	4	1005.30	80	40	24.0	40.0	36.0	0.048
CSRMQ	50	50	5	502.60	32	50	30.0	50.0	45.0	0.05
CSRMQ	50	10	5	1005.30	64	50	30.0	50.0	45.0	0.05

製程說明：

精度等級：(JIS 四級)8e27
 材料：(S45C中碳鋼)C45
 齒型：直齒圓棒
 齒面處理：精銑
 硬度處理：調質處理
 四面研磨：無
 壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade4) 8e27
 Material: (S45C Medium Carbon Steel)C45
 Type: Straight Round Rack
 Treatment of Teeth: Milled
 Hardness: quenched
 Sides Ground: not included.
 Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製。
 *總齒距誤差:每300mm齒距累積誤差的最高值。

*Other Dimensions/Materials could be customized by drawings.
 *Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code			模數 Module	L	齒數 Tooth No.	D	B	A ₀	A ₁	總齒距誤差 Pitch Error /300mm
CSRM	10	50	1	499.50	159	15	7.5	15	14.0	0.056
CSRM	10	10	1	999.00	318	15	7.5	15	14.0	0.056
CSRM	15	50	1.5	499.50	106	17	9.6	17	15.5	0.059
CSRM	15	10	1.5	999.00	212	17	9.6	17	15.5	0.059
CSRM	20	50	2	502.70	80	20	12.0	20	18.0	0.064
CSRM	20	10	2	999.00	159	20	12.0	20	18.0	0.064
CSRM	25	50	2.5	502.70	64	25	15.0	25	22.5	0.063
CSRM	25	10	2.5	997.50	127	25	15.0	25	22.5	0.063
CSRM	30	50	3	499.50	53	30	18.0	30	27.0	0.065
CSRM	30	10	3	999.00	106	30	18.0	30	27.0	0.065
CSRM	40	50	4	502.60	40	40	24.0	40	36.0	0.068
CSRM	40	10	4	1005.30	80	40	24.0	40	36.0	0.068
CSRM	50	50	5	502.60	32	50	30.0	50	45.0	0.070
CSRM	50	10	5	1005.30	64	50	30.0	50	45.0	0.070

製程說明：

精度等級：(JIS 五級)9e27

材料：(S45C中碳鋼) C45

齒型：直齒圓棒

齒面處理：精銑

硬度處理：無

四面研磨：無

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 5) 9e27

Material: (S45C Medium Carbon Steel)C45

Type: Straight Round Rack

Treatment of Teeth: Milled

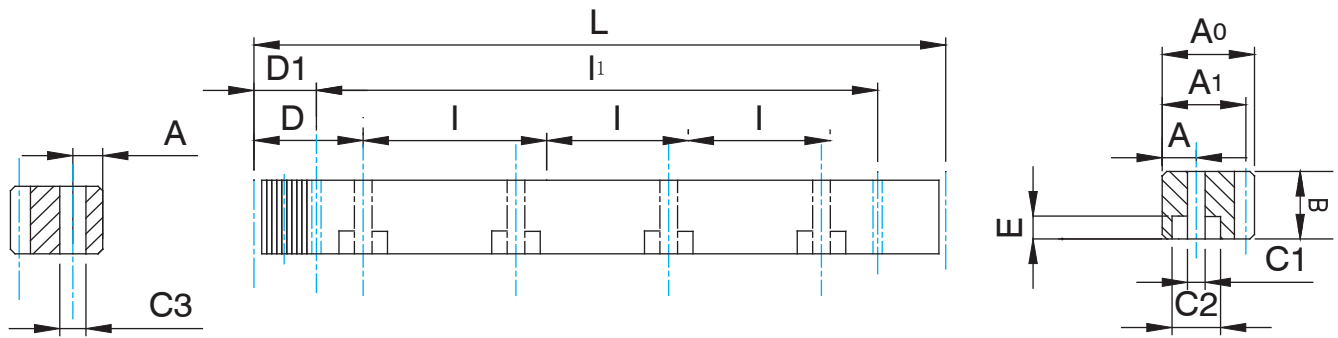
Hardness: No Heat treatment.

Sides Ground: not included.

Pressure Angle: 20 degree.

*不同尺寸與材質可以依照圖面客製化。
*總齒距誤差:每300mm齒距累積誤差的最大值。

*Other Dimensions/Materials could be customized by drawings.
*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code	模數 Module	L	齒數 Tooth No.	B	A ₀	A ₁	D	I	孔數 Hole No.	A	C ₁	C ₂	E	D ₁	I ₁	C ₃	總齒距誤差 Pitch Error /300mm		
MSTGH	20	50	2	502.65	80	24	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7	0.022
MSTGH	20	10	2	1005.31	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7	0.022
MSTGH	30	50	3	508.94	54	29	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7	0.024
MSTGH	30	10	3	1017.88	108	29	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7	0.024
MSTGH	40	50	4	502.65	40	39	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7	0.025
MSTGH	40	10	4	1005.31	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7	0.025
MSTGH	50	50	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7	0.025
MSTGH	50	10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945	11.7	0.025
MSTGH	60	50	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7	0.026
MSTGH	60	10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7	0.026
MSTGH	80	50	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7	0.027
MSTGH	80	10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952	19.7	0.027
MSTGH	10	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7	0.028

製程說明:

精度等級: (JIS二級)6h25

材料: (SCM440 鉻鉬合金鋼) 42CrM04

齒型: 直齒

齒面處理: 研磨

硬度處理: 熱處理, 硬度可達55~60度

四面研磨: 有

壓力角: 20度

Manufacturing Description:

Precision Grade: (JIS Grade 2) 6h25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment; 55~60 degree.

Sides Ground: Included.

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條, 請於型號後加註"N", 如MSTGH2050N.

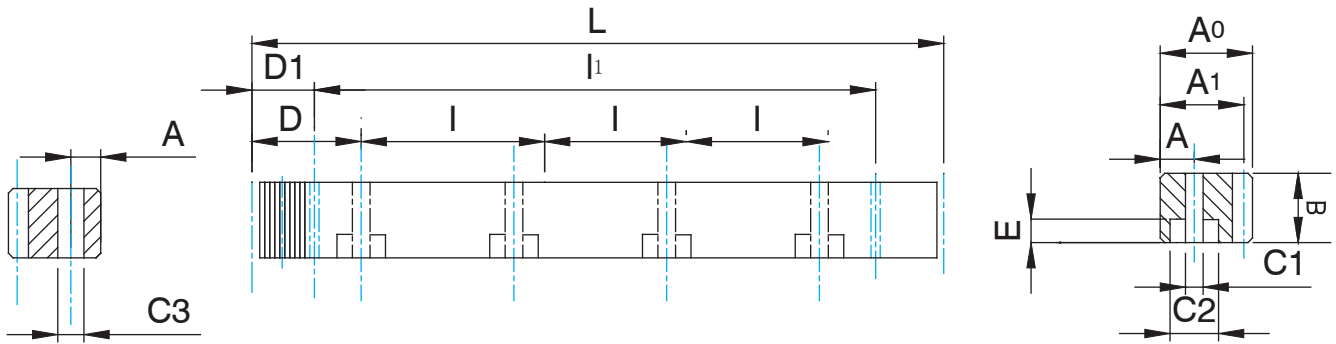
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:為每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. MSTGH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code	模數 Module	L	齒數 Tooth No.	B	A0	A1	D	l	孔數 Hole No.	A	C1	C2	E	D1	l1	C3	總齒距誤差 Pitch Error /300mm	
MSTMQ	20	50	2	502.65	80	25	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7
MSTMQ	20	10	2	1005.31	160	25	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7
MSTMQ	30	50	3	508.94	54	30	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7
MSTMQ	30	10	3	1017.88	108	30	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7
MSTMQ	40	50	4	502.65	40	40	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7
MSTMQ	40	10	4	1005.31	80	40	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7
MSTMQ	50	50	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7
MSTMQ	50	10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945	11.7
MSTMQ	60	50	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7
MSTMQ	60	10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7
MSTMQ	80	50	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7
MSTMQ	80	10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952	19.7
MSTMQ	10	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7

製程說明：

精度等級：(JIS 三級)7e25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：精銑

硬度處理：調質處理

四面研磨：有

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade3)7e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

Treatment of Teeth: Milled.

Hardness: quenched

Sides Ground: Included.

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如MSTMH2050N。

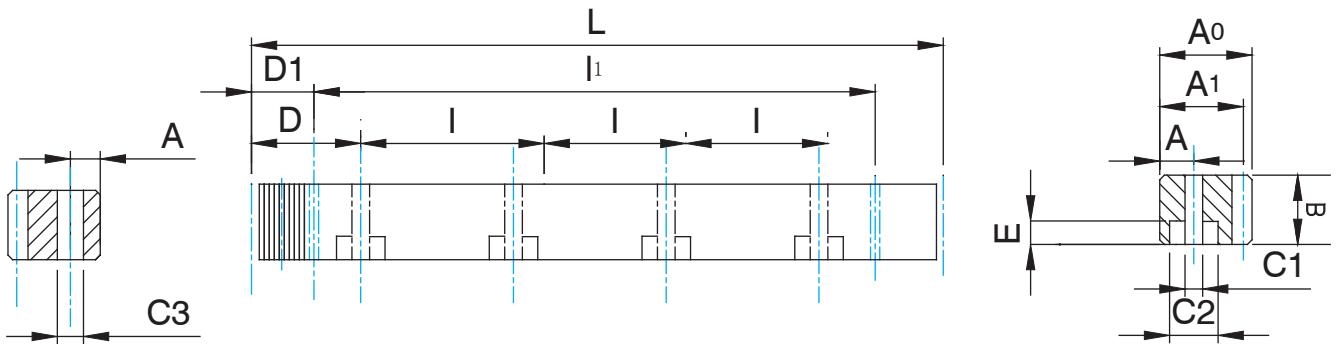
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. MSTMH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code	模數 Module	L	齒數 Tooth No.	B	A ₀	A ₁	D	l	孔數 Hole No.	A	C ₁	C ₂	E	D ₁	l ₁	C ₃	總齒距誤差 Pitch Error /300mm		
MSTMQ	20	50	2	502.65	80	25	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7	0.044
MSTMQ	20	10	2	1005.31	160	25	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7	0.044
MSTMQ	30	50	3	508.94	54	30	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7	0.046
MSTMQ	30	10	3	1017.88	108	30	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7	0.046
MSTMQ	40	50	4	502.65	40	40	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7	0.048
MSTMQ	40	10	4	1005.31	80	40	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7	0.048
MSTMQ	50	50	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7	0.050
MSTMQ	50	10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945	11.7	0.050
MSTMQ	60	50	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7	0.055
MSTMQ	60	10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7	0.055
MSTMQ	80	50	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7	0.060
MSTMQ	80	10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952	19.7	0.060
MSTMQ	10	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7	0.065

製程說明：

精度等級：(JIS 四級)8e27

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：精銑

硬度處理：調質處理

四面研磨：無

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade4)8e27

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

Treatment of Teeth: Milled.

Hardness: quenched

Sides Ground: not included.

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如MSTMH2050N。

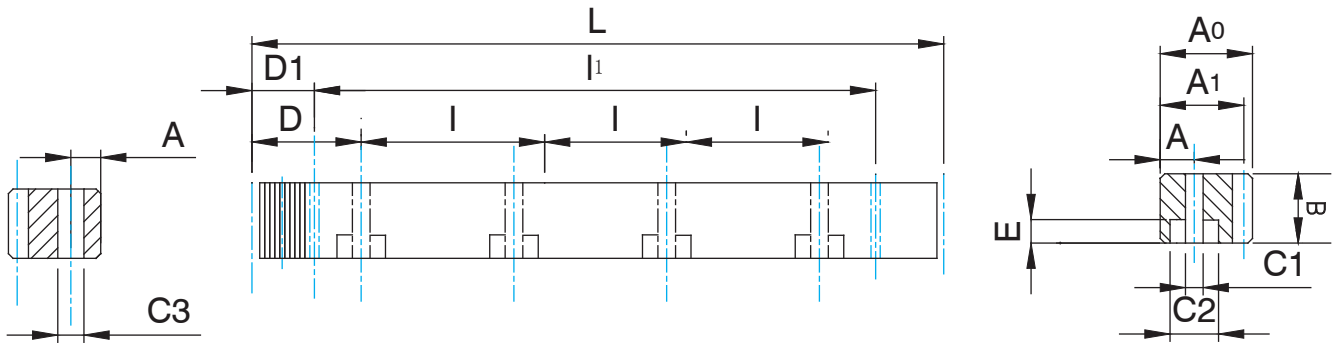
*不同尺寸與材質可以依照圖面客製。

*總齒距誤差:每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. MSTMH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code		模數 Module	L	齒數 Tooth No.	B	A0	A1	D	l	孔數 Hole No.	A	C1	C2	E	D1	l1	C3	總齒距誤差 Pitch Error /300mm	
MSTM	20	50	2	502.65	80	20	20	18	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7	0.059
MSTM	20	10	2	999.03	159	20	20	18	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7	0.061
MSTM	30	50	3	508.94	54	30	30	27	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7	0.065
MSTM	30	10	3	1017.88	108	30	30	27	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7	0.065
MSTM	40	50	4	502.65	40	40	40	36	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7	0.068
MSTM	40	10	4	1005.31	80	40	40	36	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7	0.068
MSTM	50	50	5	502.65	32	50	40	35	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7	0.070
MSTM	50	10	5	1005.31	64	50	40	35	62.83	125.66	8	12	14	20	13	30.1	945	11.7	0.070
MSTM	60	50	6	508.94	27	60	50	44	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7	0.072
MSTM	60	10	6	1017.88	54	60	50	44	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7	0.072
MSTM	80	50	8	502.65	20	80	80	71.5	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7	0.075
MSTM	80	10	8	1005.31	40	80	80	71.5	62.83	125.66	8	25	22	33	21	26.6	952	19.7	0.075
MSTM	10	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7	0.080

製程說明：

精度等級：(JIS 五級)9e27

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：精銑

硬度處理：無

四面研磨：無

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 5)9e27

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

Treatment of Teeth: Milled.

Hardness: No Heat treatment.

Sides Ground: not included.

Pressure Angle: 20 degree

*亦供應無鑽孔的齒條，請於型號後加註"N"，如MSTM2050N。

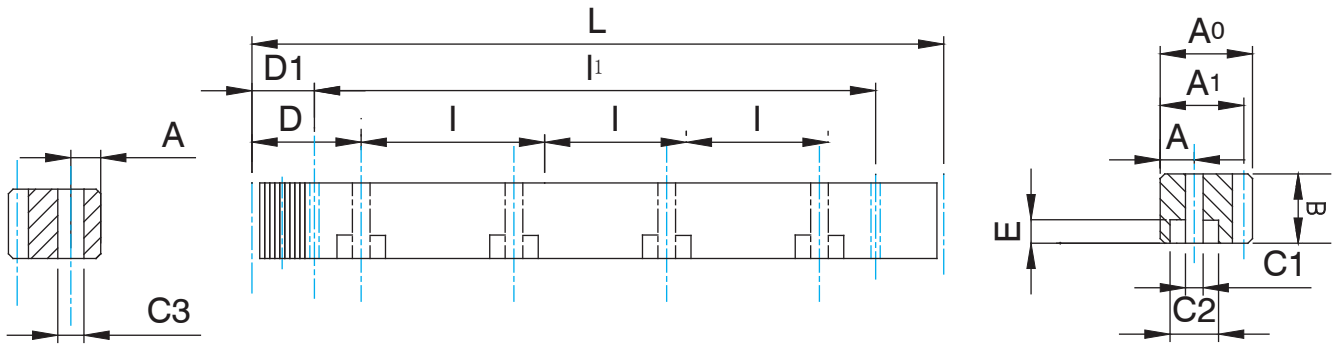
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. MSTM2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code	模數 Module	L	齒數 Tooth No.	B	A0	A1	D	I	孔數 Hole No.	A	C1	C2	E	D1	I1	C3	總齒距誤差 Pitch Error /300mm		
MSTMH	20	50	2	502.65	80	24	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7	0.086
MSTMH	20	10	2	1005.31	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7	0.086
MSTMH	30	50	3	508.94	54	29	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7	0.091
MSTMH	30	10	3	1017.88	108	29	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7	0.091
MSTMH	40	50	4	502.65	40	39	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7	0.095
MSTMH	40	10	4	1005.31	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7	0.095
MSTMH	50	50	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7	0.098
MSTMH	50	10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945	11.7	0.098
MSTMH	60	50	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7	0.100
MSTMH	60	10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7	0.100
MSTMH	80	50	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7	0.105
MSTMH	80	10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952	19.7	0.105
MSTMH	10	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7	0.110

製程說明：

精度等級：(JIS六級)10e27

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：精銑

硬度處理：熱處理，硬度可達55~60度

四面研磨：無

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 6)10e27

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

Treatment of Teeth: Milled.

Hardness: Heat treatment ; 55~60 degree.

Sides Ground: not included.

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如MSTMH2050N。

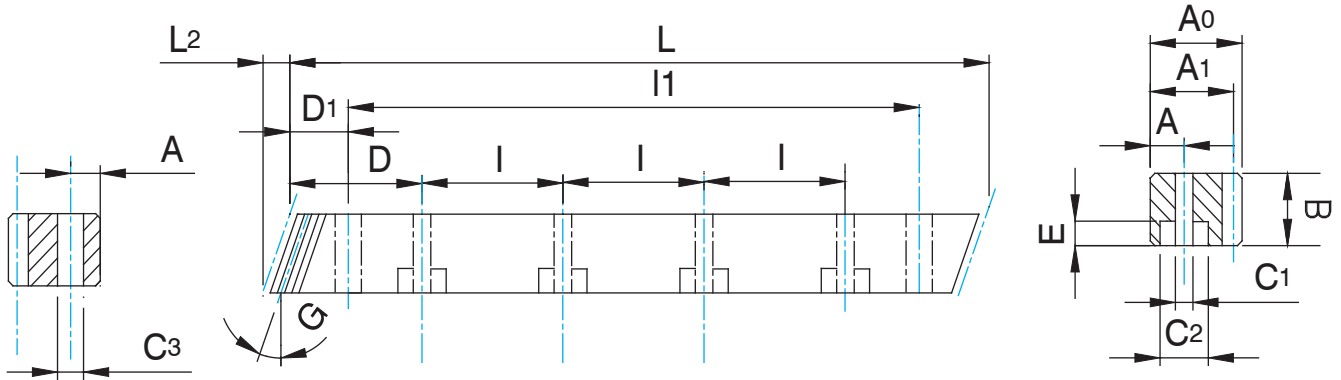
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. MSTMH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code	模數 Module	L	L2	齒數 Tooth No.	B	A0	A1	D	I	孔數 Hole No.	A	C1	C2	E	D1	I1	C3	總齒距誤差 Pitch Error /300mm	
MHTGH 02	50	2	500.00	8.5	75	24	24	22	62.50	125	4	8	7	11	7	31.7	436.6	5.7	0.022
MHTGH 02	10	2	1000.00	8.5	150	24	24	22	62.50	125	8	8	7	11	7	31.7	936.6	5.7	0.022
MHTGH 03	50	3	500.00	10.3	50	29	29	26	62.50	125	4	9	10	15	9	35.0	430.0	7.7	0.024
MHTGH 03	10	3	1000.00	10.3	100	29	29	26	62.50	125	8	9	10	15	9	35.0	930.0	7.7	0.024
MHTGH 04	50	4	506.67	13.8	38	39	39	35	62.50	125	4	12	10	15	9	33.3	433.0	7.7	0.024
MHTGH 04	10	4	1000.00	13.8	75	39	39	35	62.50	125	8	12	10	15	9	33.3	933.4	7.7	0.024
MHTGH 05	50	5	500.00	17.4	30	49	39	34	62.50	125	4	12	14	20	13	37.5	425.0	11.7	0.025
MHTGH 05	10	5	1000.00	17.4	60	49	39	34	62.50	125	8	12	14	20	13	37.5	925.0	11.7	0.025
MHTGH 06	50	6	500.00	20.9	25	59	49	43	62.50	125	4	16	18	26	17	37.5	425.0	15.7	0.026
MHTGH 06	10	6	1000.00	20.9	50	59	49	43	62.50	125	8	16	18	26	17	37.5	925.0	15.7	0.026
MHTGH 08	50	8	480.00	28.0	18	79	79	71	60.00	120	4	25	22	33	21	120.0	240.0	19.7	0.027
MHTGH 08	10	8	960.00	28.0	36	79	79	71	60.00	120	8	25	22	33	21	120.0	720.0	19.7	0.027
MHTGH 10	10	10	1000.00	35.11	30	99	99	89	62.50	125	8	32	33	48	32	125.0	750.0	19.7	0.028

製程說明：

精度等級：(JIS二級)6h25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理，硬度可達55~60度

四面研磨：有

右旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 2) 6h25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Helical Rack

Treatment of Teeth: Ground

Hardness: Heat treatment; 55~60 degree.

Sides Ground: Included.

Right Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如MHTGH2050N。

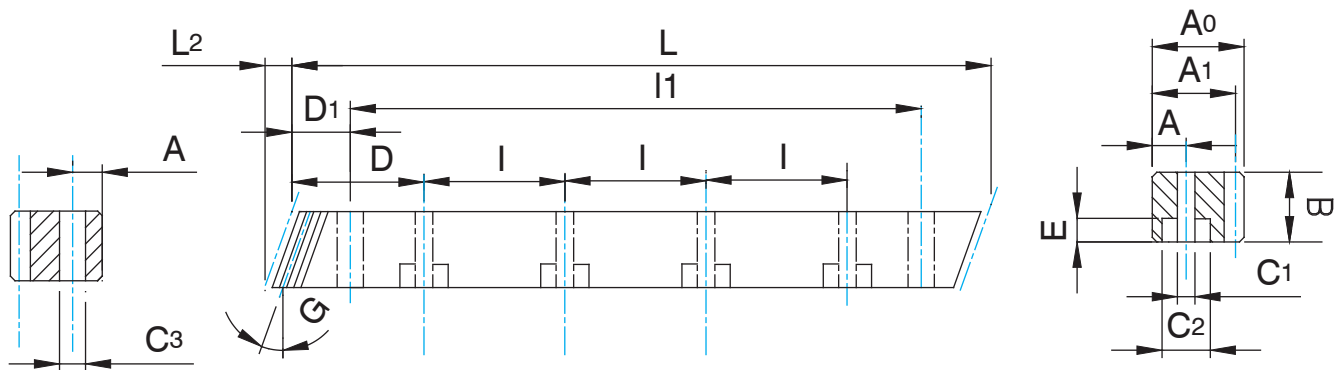
*不同尺寸與材質以可依照圖面客製。

*總齒距誤差：為每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. MHTGH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code		模數 Module	L	L2	齒數 Tooth No.	B	A0	A1	D	I	孔數 Hole No.	A	C1	C2	E	D1	l1	C3	總齒距誤差 Pitch Error /300mm	
MHTMQ	02	50	2	500.00	8.9	75	25	24	22	62.5	125	4	8	7	11	7	31.7	436.6	5.7	
MHTMQ	02	10	2	1000.00	8.9	150	25	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.7	
MHTMQ	03	50	3	500.00	10.6	50	30	29	26	62.5	125	4	9	10	15	9	35.0	430.0	7.7	
MHTMQ	03	10	3	1000.00	10.6	100	30	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.7	
MHTMQ	04	50	4	506.67	14.2	38	40	39	35	62.5	125	4	12	10	15	9	33.3	433.0	7.7	
MHTMQ	04	10	4	1000.00	14.2	75	40	39	35	62.5	125	8	12	10	15	9	33.3	933.4	7.7	
MHTMQ	05	50	5	500.00	17.4	30	50	39	34	62.5	125	4	12	14	20	13	37.5	425.0	11.7	
MHTMQ	05	10	5	1000.00	17.4	60	50	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7	
MHTMQ	06	50	6	500.00	20.9	25	59	49	43	62.5	125	4	16	18	26	17	37.5	425.0	15.7	
MHTMQ	06	10	6	1000.00	20.9	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7	
MHTMQ	08	50	8	480.00	28.0	18	79	79	71	60.0	120	4	25	22	33	21	120.0	240.0	19.7	
MHTMQ	08	10	8	960.00	28.0	36	79	79	71	60.0	120	8	25	22	33	21	120.0	720.0	19.7	
MHTMQ	10	10	10	1000.00	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125.0	750.0	19.7	

製程說明：

精度等級：(JIS 三級)7e25

材料：(SCM440 鉻鎢合金鋼) 42CrM04

齒型：斜齒

齒面處理：精銑

硬度處理：調質處理

四面研磨：有

右旋角：19° 31' 42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade3)7e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Helical Rack

Treatment of Teeth: Milled

Hardness: quenched

Sides Ground:Included.

Right Hand Angle: 19° 31' 42"

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如MHTMH2050N。

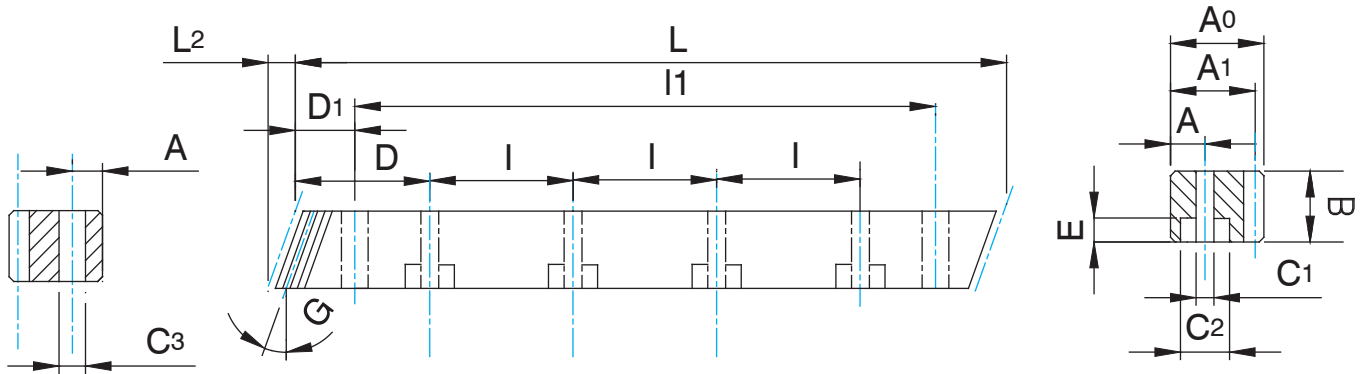
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:為每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. MHTMH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code		模數 Module	L	L2	齒數 Tooth No.	B	A0	A1	D	I	孔數 Hole No.	A	C1	C2	E	D1	l1	C3	總齒距誤差 Pitch Error /300mm	
MHTMQ	02	50	2	500.00	8.9	75	25	24	22	62.5	125	4	8	7	11	7	31.7	436.6	5.7	0.044
MHTMQ	02	10	2	1000.00	8.9	150	25	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.7	0.044
MHTMQ	03	50	3	500.00	10.6	50	30	29	26	62.5	125	4	9	10	15	9	35.0	430.0	7.7	0.046
MHTMQ	03	10	3	1000.00	10.6	100	30	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.7	0.046
MHTMQ	04	50	4	506.67	14.2	38	40	39	35	62.5	125	4	12	10	15	9	33.3	433.0	7.7	0.048
MHTMQ	04	10	4	1000.00	14.2	75	40	39	35	62.5	125	8	12	10	15	9	33.3	933.4	7.7	0.048
MHTMQ	05	50	5	500.00	17.4	30	50	39	34	62.5	125	4	12	14	20	13	37.5	425.0	11.7	0.050
MHTMQ	05	10	5	1000.00	17.4	60	50	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7	0.050
MHTMQ	06	50	6	500.00	20.9	25	59	49	43	62.5	125	4	16	18	26	17	37.5	425.0	15.7	0.055
MHTMQ	06	10	6	1000.00	20.9	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7	0.055
MHTMQ	08	50	8	480.00	28.0	18	79	79	71	60.0	120	4	25	22	33	21	120.0	240.0	19.7	0.060
MHTMQ	08	10	8	960.00	28.0	36	79	79	71	60.0	120	8	25	22	33	21	120.0	720.0	19.7	0.060
MHTMQ	10	10	10	1000.00	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125.0	750.0	19.7	0.065

製程說明：

精度等級：(JIS 四級)8e27

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：斜齒

齒面處理：精銑

硬度處理：調質處理

四面研磨：無

右旋角：19° 31' 42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade4)8e27

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Helical Rack

Treatment of Teeth: Milled

Hardness: quenched

Sides Ground: not included.

Right Hand Angle: 19° 31' 42"

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如MHTMH2050N。

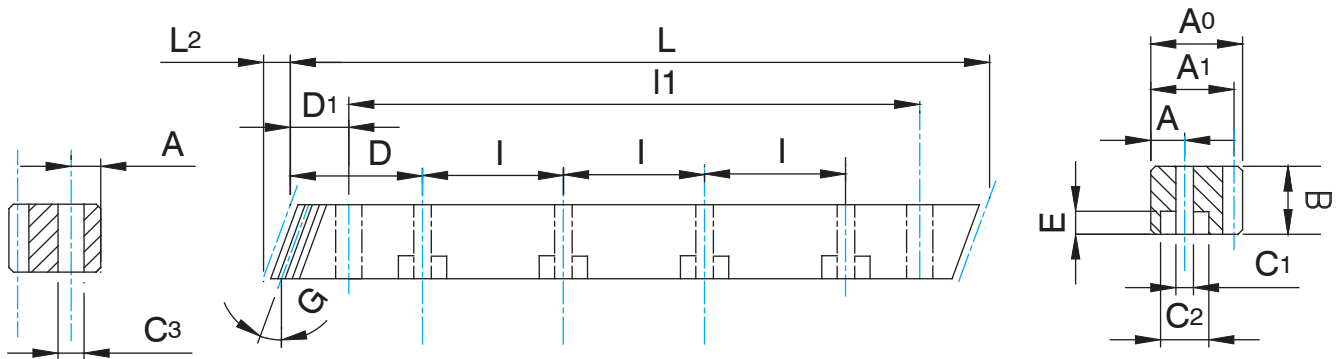
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:為每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. MHTMH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code		模數 Module	L	L2	齒數 Tooth No.	B	A0	A1	D	I	孔數 Hole No.	A	C1	C2	E	D1	I1	C3	總齒距誤差 Pitch Error
MHTM	02	50	2	500.00	9.2	75	26	24	62.5	125	4	8	7	11	7	31.7	436.6	5.7	0.061
MHTM	02	10	2	1000.00	9.2	150	26	24	62.5	125	8	8	7	11	7	31.7	936.6	5.7	0.061
MHTM	03	50	3	500.00	11.0	50	31	29	62.5	125	4	9	10	15	9	35.0	430.0	7.7	0.065
MHTM	03	10	3	1000.00	11.0	100	31	29	62.5	125	8	9	10	15	9	35.0	930.0	7.7	0.065
MHTM	04	50	4	506.67	14.5	38	41	39	62.5	125	4	12	10	15	9	33.3	433.0	7.7	0.068
MHTM	04	10	4	1000.00	14.5	75	41	39	62.5	125	8	12	10	15	9	33.3	933.4	7.7	0.068
MHTM	05	50	5	500.00	17.7	30	50	39	62.5	125	4	12	14	20	13	37.5	425.0	11.7	0.070
MHTM	05	10	5	1000.00	17.7	60	50	39	62.5	125	8	12	14	20	13	37.5	925.0	11.7	0.070
MHTM	06	50	6	500.00	21.3	25	60	49	62.5	125	4	16	18	26	17	37.5	425.0	15.7	0.072
MHTM	06	10	6	1000.00	21.3	50	60	49	62.5	125	8	16	18	26	17	37.5	925.0	15.7	0.072
MHTM	08	50	8	480.00	28.7	18	81	79	60	120	4	25	22	33	21	120.0	240.0	19.7	0.075
MHTM	08	10	8	960.00	28.7	36	81	79	60	120	8	25	22	33	21	120.0	720.0	19.7	0.075
MHTM	10	10	10	1000.00	35.11	30	99	99	62.5	125	8	32	33	48	32	125.0	750.0	19.7	0.080

製程說明：

精度等級：(JIS 五級)9e27

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：斜齒

齒面處理：精銑

硬度處理：無

四面研磨：無

右旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 5)9e27

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Helical Rack

Treatment of Teeth: Milled

Hardness: No Heat treatment.

Sides Ground: not included.

Right Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如MHTM2050N。

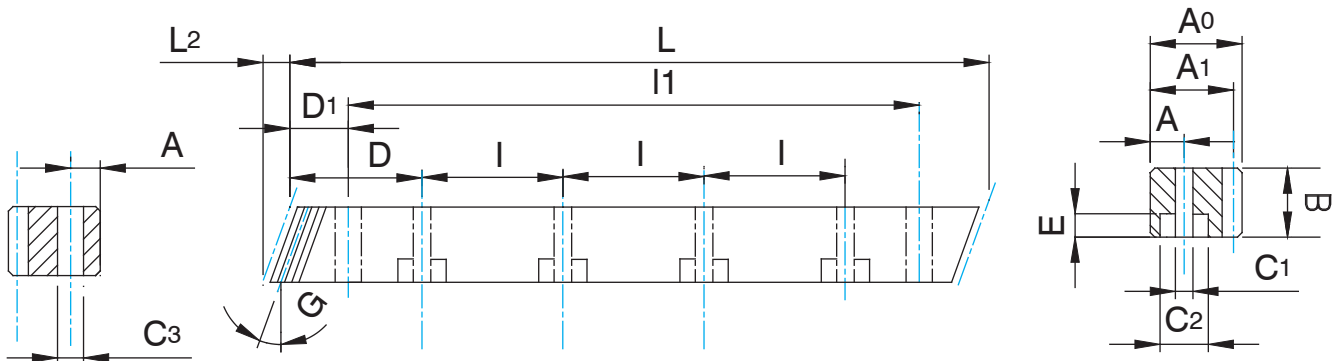
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:為每300mm齒距累積誤差的最大值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. MHTM2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code	模數 Module	L	L2	齒數 Tooth No.	B	A0	A1	D	I	孔數 Hole No.	A	C1	C2	E	D1	I1	C3	總齒距誤差 Pitch Error /300mm
MHTMH 02 50	2	500.00	8.5	75	24	24	22	62.5	125	4	8	7	11	7	31.7	436.6	5.7	0.086
MHTMH 02 10	2	1000.00	8.5	150	24	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.7	0.086
MHTMH 03 50	3	500.00	10.3	50	29	29	26	62.5	125	4	9	10	15	9	35.0	430.0	7.7	0.091
MHTMH 03 10	3	1000.00	10.3	100	29	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.7	0.091
MHTMH 04 50	4	506.67	13.8	38	39	39	35	62.5	125	4	12	10	15	9	33.3	433.0	7.7	0.095
MHTMH 04 10	4	1000.00	13.8	75	39	39	35	62.5	125	8	12	10	15	9	33.3	933.4	7.7	0.095
MHTMH 05 50	5	500.00	17.4	30	49	39	34	62.5	125	4	12	14	20	13	37.5	425.0	11.7	0.098
MHTMH 05 10	5	1000.00	17.4	60	49	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7	0.098
MHTMH 06 50	6	500.00	20.9	25	59	49	43	62.5	125	4	16	18	26	17	37.5	425.0	15.7	0.081
MHTMH 06 10	6	1000.00	20.9	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7	0.100
MHTMH 08 50	8	480.00	28.0	18	79	79	71	60.0	120	4	25	22	33	21	120	240.0	19.7	0.105
MHTMH 08 10	8	960.00	28.0	36	79	79	71	60.0	120	8	25	22	33	21	120	720.0	19.7	0.105
MHTMH 10 10	10	1000.00	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125	750.0	19.7	0.110

製程說明：

精度等級：(JIS六級)10e27

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：斜齒

齒面處理：精銑

硬度處理：熱處理，硬度可達55~60度

四面研磨：無

右旋角：19° 31' 42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 6)10e27

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Helical Rack

Treatment of Teeth: Milled

Hardness: Heat treatment ; 55~60 degree.

Sides Ground: not included.

Right Hand Angle: 19° 31' 42"

Pressure Angle: 20 degree.

*亦供應無鑽孔的齒條，請於型號後加註"N"，如MHTMH2050N。

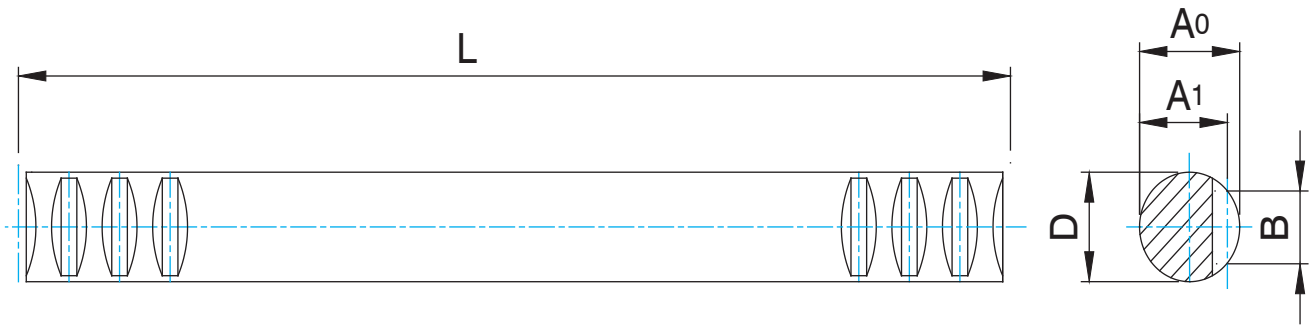
*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:為每300mm齒距累積誤差的最高值。

*Racks without holes are also available. Note "N" in the end of code number. i.e. MHTMH2050N.

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code		模數 Module	L	齒數 Tooth No.	D	B	A ₀	A ₁	總齒距誤差 Pitch Error /300mm
MSRMQ	10 50	1	499.50	159	10	6.0	9.9	8.9	0.040
MSRMQ	10 10	1	999.00	318	10	6.0	9.9	8.9	0.040
MSRMQ	15 50	1.5	499.50	106	15	9.0	14.9	13.4	0.042
MSRMQ	15 10	1.5	999.00	212	15	9.0	14.9	13.4	0.042
MSRMQ	20 50	2	502.70	80	20	12.0	19.8	17.8	0.044
MSRMQ	20 10	2	999.00	159	20	12.0	19.8	17.8	0.044
MSRMQ	25 50	2.5	502.70	64	25	15.0	25.0	22.5	
MSRMQ	25 10	2.5	997.50	127	25	15.0	25.0	22.5	
MSRMQ	30 50	3	499.50	53	30	18.0	29.8	26.8	0.046
MSRMQ	30 10	3	999.00	106	30	18.0	29.8	26.8	0.046
MSRMQ	40 50	4	502.60	40	40	24.0	40.0	36.0	0.048
MSRMQ	40 10	4	1005.30	80	40	24.0	40.0	36.0	0.048
MSRMQ	50 50	5	502.60	32	50	30.0	50.0	45.0	
MSRMQ	50 10	5	1005.30	64	50	30.0	50.0	45.0	

製程說明：

精度等級：(JIS 四級)8e27

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒圓棒

齒面處理：精銑

硬度處理：調質處理

四面研磨：無

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade4) 8e27

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Round Rack

Treatment of Teeth: Milled

Hardness: quenched

Sides Ground: not included.

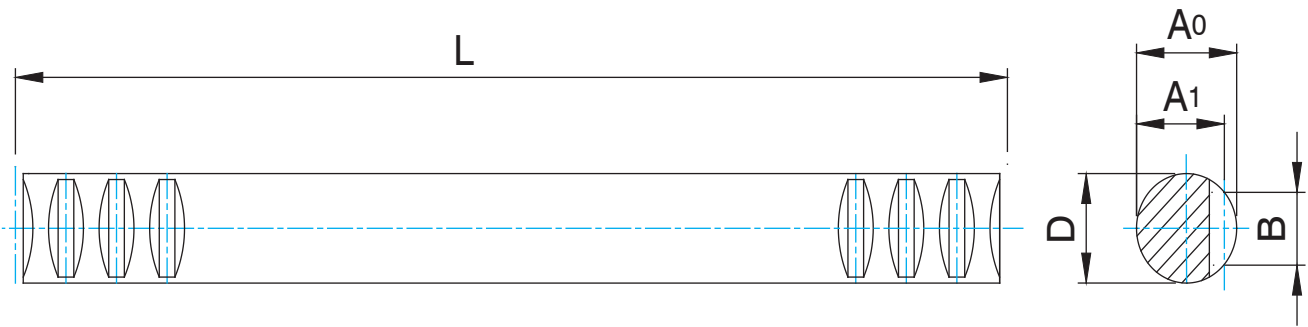
Pressure Angle: 20 degree.

*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:為每300mm齒距累積誤差的最大值。

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.



單位/Dimension: mm

型號 Code			模數 Module	L	齒數 Tooth No.	D	B	A0	A1	總齒距誤差 Pitch Error /300mm
MSRM	10	50	1	499.50	159	15	7.5	15	14.0	0.056
MSRM	10	10	1	999.00	318	15	7.5	15	14.0	0.056
MSRM	15	50	1.5	499.50	106	17	9.6	17	15.5	0.059
MSRM	15	10	1.5	999.00	212	17	9.6	17	15.5	0.059
MSRM	20	50	2	502.70	80	20	12.0	20	18.0	0.064
MSRM	20	10	2	999.00	159	20	12.0	20	18.0	0.064
MSRM	25	50	2.5	502.70	64	25	15.0	25	22.5	0.063
MSRM	25	10	2.5	997.50	127	25	15.0	25	22.5	0.063
MSRM	30	50	3	499.50	53	30	18.0	30	27.0	0.065
MSRM	30	10	3	999.00	106	30	18.0	30	27.0	0.065
MSRM	40	50	4	502.60	40	40	24.0	40	36.0	0.068
MSRM	40	10	4	1005.30	80	40	24.0	40	36.0	0.068
MSRM	50	50	5	502.60	32	50	30.0	50	45.0	0.070
MSRM	50	10	5	1005.30	64	50	30.0	50	45.0	0.070

製程說明：

精度等級：(JIS 五級)9e27

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒圓棒

齒面處理：精銑

硬度處理：無

四面研磨：無

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 5)9e27

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Round Rack

Treatment of Teeth: Milled

Hardness: No Heat treatment.

Sides Ground: not included.

Pressure Angle: 20 degree.

*不同尺寸與材質可以依照圖面客製化。

*總齒距誤差:為每300mm齒距累積誤差的最高值。

*Other Dimensions/Materials could be customized by drawings.

*Pitch Error: total pitch error per 300 mm.

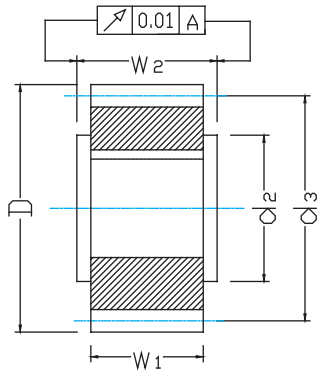


圖1

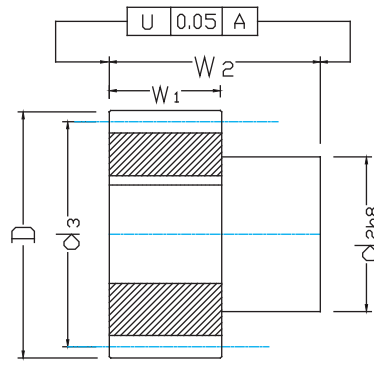


圖2

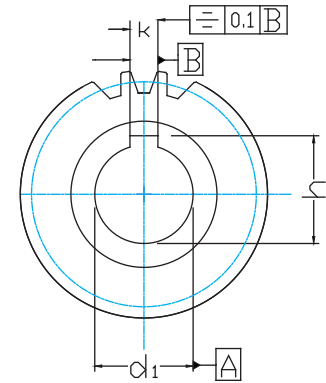


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h		
模數2												
CSGH 20	16	1	1	16	15	25	32	36	28	30.0	5	17.3
CSGH 20	18	1	1	18	15	30	36	40	28	30.0	5	17.3
CSGH 20	18	2	1	18	20	25	36	40	28	30.0	6	22.8
CSGH 20	20	1	1	20	15	25	40	44	28	30.0	6	17.3
CSGH 20	20	2	1	20	20	30	40	44	28	30.0	6	22.8
CSGH 20	22	1	1	22	15	25	44	48	28	30.0	5	17.3
CSGH 20	22	2	1	22	20	30	44	48	28	30.0	6	22.8
CSGH 20	22	3	1	22	25	36	44	48	28	30.0	8	28.3
CSGH 20	25	1	2	25	16	30	50	54	28	54.0	5	18.3
CSGH 20	25	2	1	25	20	30	50	54	28	30.0	6	22.8
CSGH 20	25	3	2	25	22	36	50	54	28	56.0	6	24.8
CSGH 20	25	4	1	25	25	36	50	54	28	30.0	8	28.3
CSGH 20	25	5	1	25	30	45	50	54	28	30.0	8	33.3
CSGH 20	28	1	1	28	20	30	56	60	28	30.0	6	22.8
CSGH 20	28	2	1	28	25	36	56	60	28	30.0	8	28.3
CSGH 20	28	3	2	28	30	50	56	60	28	60.0	8	33.3
CSGH 20	28	4	1	28	30	45	56	60	28	30.0	8	33.3
CSGH 20	28	5	1	28	35	48	56	60	28	30.0	10	38.3
CSGH 20	32	1	1	32	15	36	64	68	28	30.0	5	17.3
CSGH 20	32	2	2	32	16	30	64	68	28	54.0	5	18.3
CSGH 20	32	3	1	32	20	30	64	68	28	30.0	6	22.8
CSGH 20	32	4	2	32	22	36	64	68	28	56.0	6	24.8
CSGH 20	32	5	1	32	25	36	64	68	28	30.0	8	28.3
CSGH 20	32	6	2	32	30	50	64	68	28	60.0	8	33.3
CSGH 20	32	7	1	32	30	45	64	68	28	30.0	8	33.3
CSGH 20	32	8	2	32	32	55	64	68	28	65.0	10	35.3
CSGH 20	32	9	1	32	35	48	64	68	28	30.0	10	38.3
CSGH 20	36	1	1	36	25	36	72	76	28	30.0	8	28.3

製程說明：

精度等級：(JIS三級) 7e25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理; 硬度為45~50°度

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3)7e25

Material: (S45C Medium Carbon Steel)C45

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.

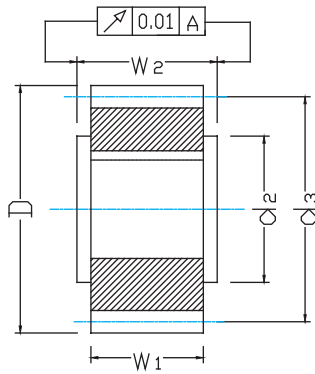


圖1

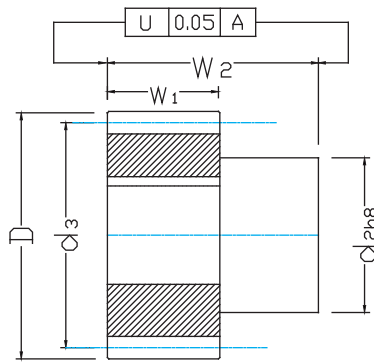


圖2

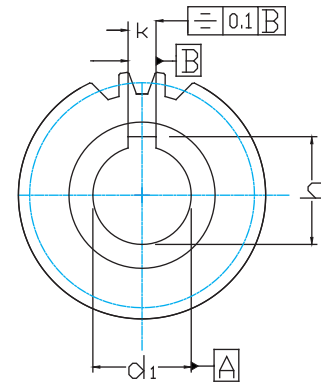


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h			
模數2													
CSGH	20	36	1	1	36	30	45	72	76	28	30.0	8	33.3
CSGH	20	36	2	1	36	35	48	72	76	28	30.0	10	38.3
CSGH	20	36	3	2	36	40	62	72	76	28	65.0	12	43.3
CSGH	20	36	4	1	36	45	58	72	76	28	30.0	14	48.8
CSGH	20	40	1	1	40	25	36	80	84	28	30.0	8	28.3
CSGH	20	40	2	1	40	30	45	80	84	28	30.0	8	33.3
CSGH	20	40	3	2	40	32	55	80	84	28	65.0	10	35.3
CSGH	20	40	4	1	40	35	48	80	84	28	30.0	10	38.3
CSGH	20	40	5	2	40	40	62	80	84	28	65.0	12	43.3
CSGH	20	40	6	2	40	45	68	80	84	28	65.0	14	48.8
CSGH	20	40	7	1	40	45	58	80	84	28	30.0	14	48.8
CSGH	20	45	1	1	45	35	48	90	94	28	30.0	10	38.3
CSGH	20	45	2	1	45	45	58	90	94	28	30.0	14	48.8
CSGH	20	50	1	1	50	35	48	100	104	28	30.0	10	38.3
CSGH	20	50	2	1	50	45	58	100	104	28	30.0	14	48.8
CSGH	20	50	3	2	50	45	68	100	104	28	65.0	14	48.8
CSGH	20	56	1	1	56	35	48	112	116	28	30.0	10	38.3
模數3													
CSGH	30	18	1	1	18	25	36	54	60	28	30.0	8	28.3
CSGH	30	20	1	1	20	25	36	60	66	28	30.0	8	28.3
CSGH	30	20	2	1	20	30	45	60	66	28	30.0	8	33.3
CSGH	30	20	3	1	20	35	48	60	66	28	30.0	10	38.3
CSGH	30	22	1	2	22	22	36	66	72	28	56.0	6	24.8
CSGH	30	22	2	2	22	25	44	66	72	28	60.0	8	28.3
CSGH	30	22	3	1	22	25	36	66	72	28	30.0	8	28.3
CSGH	30	22	4	2	22	30	50	66	72	28	60.0	8	33.3
CSGH	30	22	5	1	22	30	45	66	72	28	30.0	8	33.3
CSGH	30	22	6	2	22	32	55	66	72	28	65.0	10	35.3

製程說明：

精度等級：(JIS三級) 7e25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理; 硬度為45~50°度

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3) 7e25

Material: (S45C Medium Carbon Steel) C45

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.

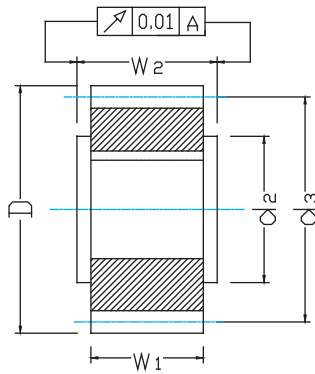


圖1

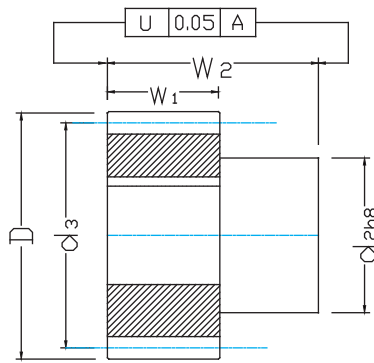


圖2

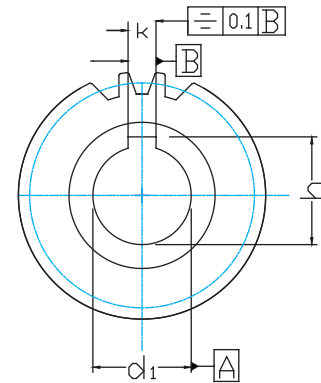


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code		圖		齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h	
模數3													
CSGH	30	22	1	2	22	35	55	66	72	28	65.0	10	38.3
CSGH	30	22	2	1	22	35	48	66	72	28	30.0	10	38.3
CSGH	30	25	1	1	25	25	36	75	81	28	30.0	8	28.3
CSGH	30	25	2	1	25	30	45	75	81	28	30.0	8	33.3
CSGH	30	25	3	1	25	35	48	75	81	28	30.0	10	38.3
CSGH	30	25	4	2	25	40	62	75	81	28	65.0	12	43.3
CSGH	30	25	5	1	25	45	58	75	81	28	30.0	14	48.8
CSGH	30	28	1	2	28	22	36	84	90	28	56.0	6	24.8
CSGH	30	28	2	2	28	25	44	84	90	28	60.0	8	28.3
CSGH	30	28	3	1	28	25	36	84	90	28	30.0	8	28.3
CSGH	30	28	4	2	28	30	50	84	90	28	60.0	8	33.3
CSGH	30	28	5	1	28	30	45	84	90	28	30.0	8	33.3
CSGH	30	28	6	2	28	32	55	84	90	28	65.0	10	35.3
CSGH	30	28	7	2	28	35	55	84	90	28	65.0	10	38.3
CSGH	30	28	8	1	28	35	48	84	90	28	30.0	10	38.3
CSGH	30	28	9	2	28	45	68	84	90	28	65.0	14	48.8
CSGH	30	28	10	1	28	45	58	84	90	28	30.0	14	48.8
CSGH	30	32	1	1	32	25	36	96	102	28	30.0	8	28.3
CSGH	30	32	2	1	32	30	45	96	102	28	30.0	8	33.3
CSGH	30	32	3	1	32	35	48	96	102	28	30.0	10	38.3
CSGH	30	32	4	3	32	40	62	96	102	28	65.0	12	43.3
CSGH	30	32	5	1	32	45	58	96	102	28	30.0	14	48.8
CSGH	30	36	1	1	36	35	48	108	114	28	30.0	10	38.3
CSGH	30	36	2	3	36	45	68	108	114	28	65.0	14	48.8
CSGH	30	36	3	1	36	45	58	108	114	28	30.0	14	48.8
CSGH	30	40	1	1	40	35	48	120	126	28	30.0	10	38.3
CSGH	30	40	2	1	40	45	58	120	126	28	30.0	14	48.8

製程說明：

精度等級：(JIS三級) 7e25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理; 硬度為45~50°度

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3) 7e25

Material: (S45C Medium Carbon Steel) C45

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質可依圖面客製化。

*Other Dimensions/Materials could be customized by drawings.

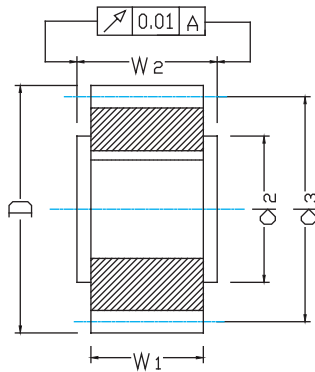


圖1

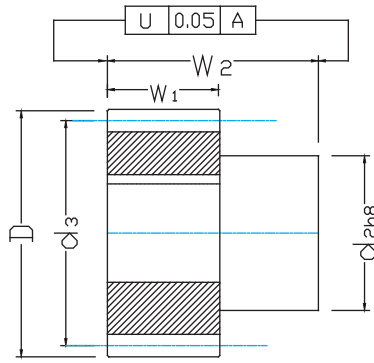


圖2

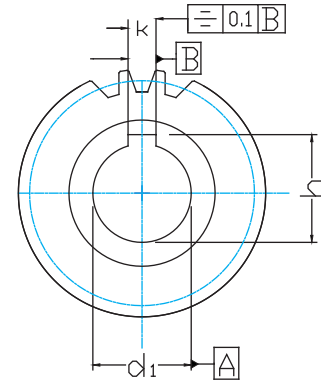


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h		
模數4												
CSGH 40	20	1	20	32	55	80	88	40	75.0	10	35.3	
CSGH 40	20	2	1	20	35	52	80	88	40	50.0	10	38.3
CSGH 40	20	3	2	20	35	55	80	88	40	75.0	10	38.3
CSGH 40	20	4	2	20	40	62	80	88	40	75.0	12	43.3
CSGH 40	20	5	1	20	45	65	80	88	40	50.0	14	48.8
CSGH 40	22	1	1	22	35	52	88	96	40	50.0	10	38.3
CSGH 40	22	2	1	22	45	65	88	96	40	50.0	14	48.8
CSGH 40	22	3	2	22	45	68	88	96	40	75.0	14	48.8
CSGH 40	25	1	2	25	32	55	100	108	40	75.0	10	35.3
CSGH 40	25	2	1	25	35	52	100	108	40	50.0	10	38.3
CSGH 40	25	3	2	25	35	55	100	108	40	75.0	10	38.3
CSGH 40	25	4	2	25	40	62	100	108	40	75.0	12	43.3
CSGH 40	25	5	1	25	45	65	100	108	40	50.0	14	48.8
CSGH 40	25	6	2	25	55	80	100	108	40	80.0	16	59.3
CSGH 40	28	1	1	28	35	52	112	120	40	50.0	10	38.3
CSGH 40	28	2	1	28	45	65	112	120	40	50.0	14	48.8
CSGH 40	28	3	2	28	45	68	112	120	40	75.0	14	48.8
CSGH 40	32	1	1	32	35	52	128	136	40	50.0	10	38.3
CSGH 40	32	2	1	32	45	65	128	136	40	50.0	14	48.8
CSGH 40	32	3	2	32	55	80	128	136	40	80.0	16	59.3
CSGH 40	32	4	2	32	75	110	128	136	40	100.0	20	80.4
CSGH 40	40	1	1	40	45	65	160	168	40	50.0	14	48.8
CSGH 40	40	2	1	40	60	80	160	168	40	50.0	18	64.4
CSGH 40	40	3	2	40	75	110	160	168	40	100.0	20	80.4

製程說明：

精度等級：(JIS三級) 7e25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理; 硬度為45~50°度

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3)7e25

Material: (S45C Medium Carbon Steel)C45

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.

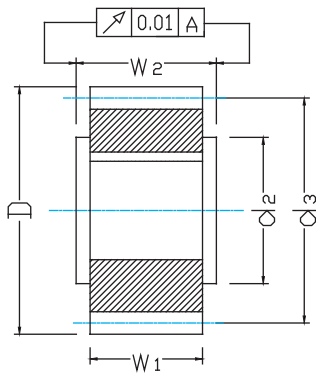


圖1

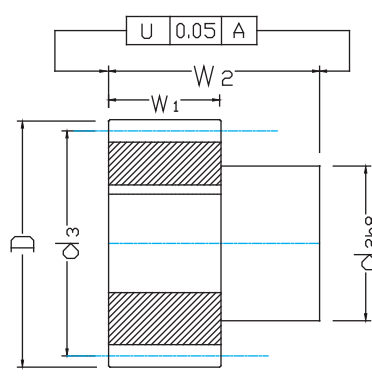


圖2

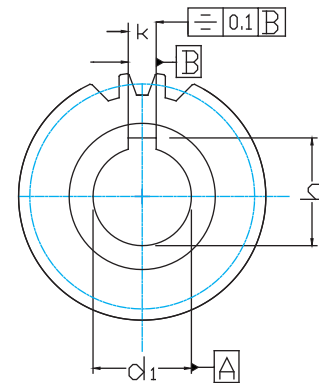


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h			
模数5													
CSGH	50	21	1	2	21	45	68	105	115	50	85.0	14	48.8
CSGH	50	21	2	2	21	55	80	105	115	50	90.0	16	59.3
CSGH	50	25	1	2	25	45	68	125	135	50	85.0	14	48.8
CSGH	50	25	2	2	25	55	80	125	135	50	90.0	16	59.3
CSGH	50	25	3	2	25	75	110	125	135	50	110.0	20	80.4
模数6													
CSGH	60	21	1	2	21	55	80	126	138	60	100.0	16	59.3
CSGH	60	21	2	2	21	75	110	126	138	60	120.0	20	79.9
CSGH	60	25	1	2	25	55	80	150	162	60	100.0	16	59.3
CSGH	60	25	2	2	25	75	110	150	162	60	120.0	20	79.9

製程說明：

精度等級：(JIS三級)7e25

材料：(S45C中碳鋼)C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理;硬度為45~50°度

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3)7e25

Material: (S45C Medium Carbon Steel)C45

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.

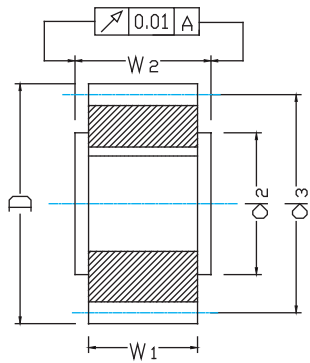


圖1

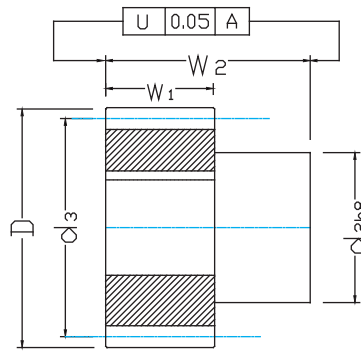


圖2

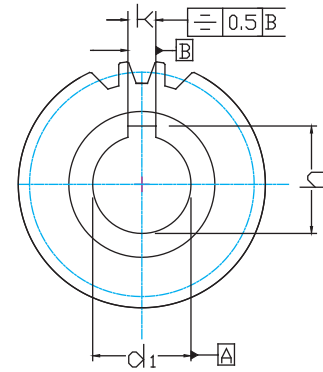


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖					齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h
模数2														
CHGH	20	20	1	1	1	20	20	30	42.44	46.4	28	30	6	22.8
CHGH	20	20	2	1	2	20	22	30	42.44	46.4	28	30	6	24.8
CHGH	20	21	1	1	1	21	16	25	44.56	48.6	28	30	5	18.3
CHGH	20	21	2	2	2	21	22	36	44.56	48.6	28	56	6	24.8
CHGH	20	25	1	1	1	25	20	30	53.05	57.1	28	30	6	22.8
CHGH	20	25	2	1	2	25	25	36	53.05	57.1	28	30	8	28.3
CHGH	20	28	1	1	1	28	35	48	59.42	63.4	28	30	10	38.3
CHGH	20	30	1	1	1	30	16	25	63.66	67.7	28	30	5	18.3
CHGH	20	30	2	1	2	30	20	30	63.66	67.7	28	30	6	22.8
CHGH	20	30	3	2	3	30	22	36	63.66	67.7	28	56	6	24.8
CHGH	20	30	4	1	4	30	25	36	63.66	67.7	28	30	8	28.3
CHGH	20	30	5	2	5	30	30	50	63.66	67.7	28	60	8	33.3
CHGH	20	30	6	2	6	30	32	55	63.66	67.7	28	65	10	35.3
CHGH	20	32	1	1	1	32	20	30	67.91	71.9	28	30	6	22.8
CHGH	20	32	2	1	2	32	25	36	67.91	71.9	28	30	8	28.3
CHGH	20	32	3	1	3	32	35	48	67.91	71.9	28	30	10	38.3
CHGH	20	36	1	1	1	36	35	48	76.39	80.4	28	30	10	38.3
CHGH	20	39	1	2	1	39	32	55	82.76	86.8	28	65	10	35.3
CHGH	20	40	1	1	1	40	35	48	84.88	88.9	28	30	10	38.3
模数3														
CHGH	30	20	1	2	1	20	22	36	63.66	69.7	28	56	6	24.8
CHGH	30	20	2	2	2	20	25	44	63.66	69.7	28	60	8	28.3
CHGH	30	20	3	1	3	20	30	45	63.66	69.7	28	30	8	33.3
CHGH	30	20	4	2	4	20	30	50	63.66	69.7	28	60	8	33.3
CHGH	30	20	5	2	5	20	32	55	63.66	69.7	28	65	10	35.3
CHGH	30	20	6	1	6	20	35	48	63.66	69.7	28	30	10	38.3
CHGH	30	22	1	1	1	22	25	36	70.03	76	28	30	8	28.3

製程說明：

精度等級：(JIS三級) 7e25

材料：(S45C中碳鋼) C45

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理;硬度為45~50°度

左旋角：19°31'42"

壓力角：20度

*不同尺寸與材質可以依照圖面客製化。

Manufacturing Description:

Precision Grade: (JIS Grade 3) 7e25

Material: (S45C Medium Carbon Steel) C45

Type: Helical Rack

Treatment of Teeth: Ground

Hardness: Heat treatment ; 45~50 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*Other Dimensions/Materials could be customized by drawings.

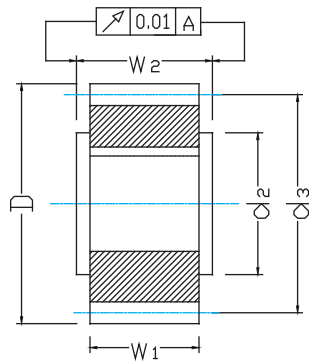


圖1

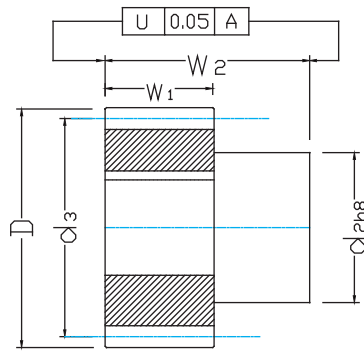


圖2

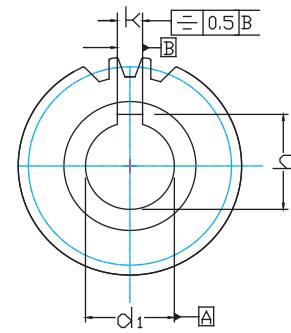


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h			
模數3													
CHGH	30	22	1	1	22	30	45	70.03	76.0	28	30	8	33.3
CHGH	30	22	2	1	22	35	48	70.03	76.0	28	30	10	38.3
CHGH	30	25	1	2	25	22	36	79.58	85.6	28	56	6	24.8
CHGH	30	25	2	1	25	25	36	79.58	85.6	28	30	8	28.3
CHGH	30	25	3	2	25	25	44	79.58	85.6	28	60	8	28.3
CHGH	30	25	4	1	25	30	45	79.58	85.6	28	30	8	33.3
CHGH	30	25	5	2	25	30	50	79.58	85.6	28	60	8	33.3
CHGH	30	25	6	2	25	32	55	79.58	85.6	28	65	10	35.3
CHGH	30	25	7	1	25	35	48	79.58	85.6	28	30	10	38.3
CHGH	30	25	8	2	25	35	55	79.58	85.6	28	65	10	38.3
CHGH	30	25	9	1	25	40	70	79.58	85.6	28	50	12	43.3
模數4													
CHGH	40	15	1	1	15	35	52	63.66	71.7	40	50	10	38.3
CHGH	40	18	1	2	18	32	55	76.39	84.4	40	75	10	35.3
CHGH	40	20	1	1	20	35	52	84.88	92.9	40	50	10	38.3
CHGH	40	20	2	1	20	45	65	84.88	92.9	40	50	14	48.8
CHGH	40	21	1	2	21	32	55	89.13	97.1	40	75	10	35.3
CHGH	40	21	2	2	21	35	55	89.13	97.1	40	75	10	38.3
CHGH	40	21	3	2	21	40	62	89.13	97.1	40	75	12	43.3
CHGH	40	21	4	2	21	45	68	89.13	97.1	40	75	14	48.8
CHGH	40	22	1	1	22	35	52	93.37	101.4	40	50	10	38.3
CHGH	40	22	2	1	22	45	65	93.37	101.4	40	50	14	48.8
CHGH	40	24	1	2	24	32	55	101.86	109.9	40	75	10	35.3
CHGH	40	24	2	2	24	35	55	101.86	109.9	40	75	10	38.3
CHGH	40	24	3	2	24	40	62	101.86	109.9	40	75	12	43.3
CHGH	40	24	4	2	24	45	68	101.86	109.9	40	75	14	48.8
CHGH	40	24	5	2	24	55	80	101.86	109.9	40	80	16	59.3
CHGH	40	25	1	1	25	35	52	106.10	114.1	40	50	10	38.3
CHGH	40	25	2	1	25	45	65	106.10	114.1	40	50	14	48.8

製程說明：

精度等級：(JIS三級) 7e25

材料：(S45C中碳鋼) C45

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理;硬度為45~50°度

左旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3)7e25

Material: (S45C Medium Carbon Steel)C45

Type: Helical Rack

Treatment of Teeth: Ground

Hardness: Heat treatment; 45~50 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*不同尺寸與材質可依圖面客製化。

*Other Dimensions/Materials could be customized by drawings.

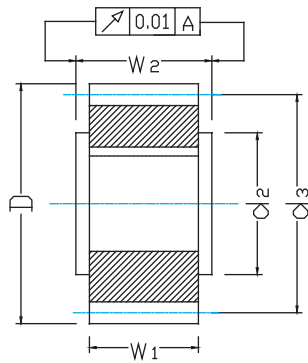


圖1

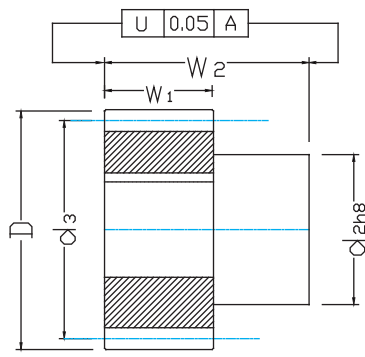


圖2

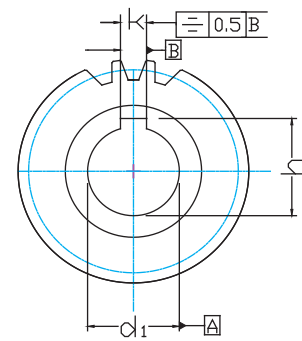


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h			
模数5													
CHGH	50	18	1	2	18	45	68	95.49	105.5	50	85	14	48.8
CHGH	50	24	1	2	24	45	68	127.32	137.0	50	85	14	48.8
CHGH	50	24	2	2	24	55	80	127.32	137.3	50	90	16	59.3
CHGH	50	24	3	2	24	75	110	127.32	137.3	50	110	20	79.9
模数6													
CHGH	60	20	1	2	20	55	80	127.32	139.3	60	100	16	59.3
CHGH	60	20	2	2	20	75	110	127.32	139.3	60	120	20	79.9
CHGH	60	25	1	2	25	55	80	159.16	171.2	60	100	16	59.3
CHGH	60	25	2	2	25	75	110	159.16	171.2	60	120	20	79.9
模数8													
CHGH	80	18	1	2	18	75	110	152.79	168.8	80	140	20	79.9

製程說明：

精度等級：(JIS三級) 7e25

材料：(S45C中碳鋼) C45

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理;硬度為45~50°度

左旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3) 7e25

Material: (S45C Medium Carbon Steel) C45

Type: Helical Rack

Treatment of Teeth: Ground

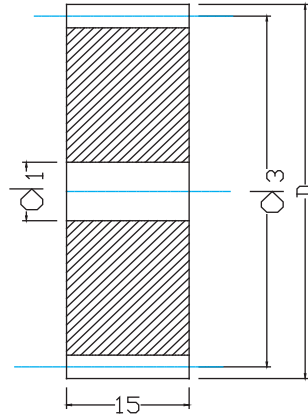
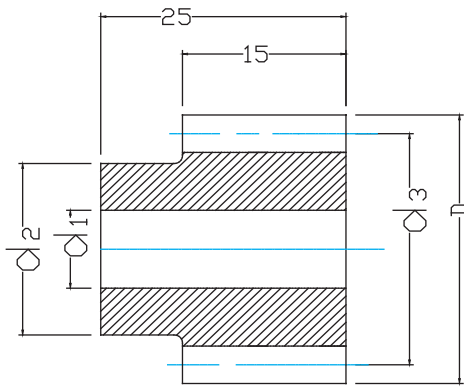
Hardness: Heat treatment; 45~50 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數1										
CSM 10 12	1	12	6	9	12.0	14.0	...	...	...	...
CSM 10 13	1	13	6	9	13.0	15.0	...	...	...	...
CSM 10 14	1	14	6	11	14.0	16.0	...	...	...	...
CSM 10 15	1	15	6	12	15.0	17.0	...	...	...	...
CSM 10 16	1	16	6	12	16.0	18.0	...	...	...	...
CSM 10 17	1	17	6	14	17.0	19.0	...	...	...	...
CSM 10 18	1	18	6	15	18.0	20.0	...	...	...	...
CSM 10 19	1	19	6	15	19.0	21.0	...	...	...	...
CSM 10 20	1	20	6	16	20.0	22.0	...	...	...	...
CSM 10 21	1	21	6	16	21.0	23.0	...	...	...	...
CSM 10 22	1	22	6	18	22.0	24.0	...	...	...	...
CSM 10 23	1	23	6	18	23.0	25.0	...	...	...	...
CSM 10 24	1	24	9	20	24.0	26.0	...	...	...	...
CSM 10 25	1	25	9	20	25.0	27.0	...	...	...	...
CSM 10 30	1	30	9	20	30.0	32.0	...	...	...	...
CSM 10 35	1	35	9	25	35.0	37.0	...	...	...	...
CSM 10 38	1	38	9	25	38.0	40.0	...	...	...	...
CSM 10 40	1	40	9	25	40.0	42.0	...	...	...	...
CSM 10 45	1	45	9	30	45.0	47.0	...	...	...	...
CSM 10 48	1	48	9	30	48.0	50.0	...	...	...	...
CSM 10 50	1	50	9	30	50.0	52.0	...	...	...	...
CSM 10 57	1	57	9	40	57.0	59.0	...	...	...	...
CSM 10 60	1	60	9	40	60.0	62.0	...	...	...	...
CSM 10 76	1	76	10	...	76.0	78.0	...	...	...	...
CSM 10 80	1	80	10	...	80.0	82.0	...	...	...	...
CSM 10 95	1	95	10	...	95.0	97.0	...	...	...	...
CSM 10 100	1	100	10	...	100.0	102.0	...	...	...	...
CSM 10 114	1	114	10	...	114.0	116.0	...	...	...	...

製程說明：

精度等級：(JIS四級) 8e25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：精銑

硬度處理：无

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 4) 8e25

Material: (S45C Medium Carbon Steel) C45

Type: Straight Rack

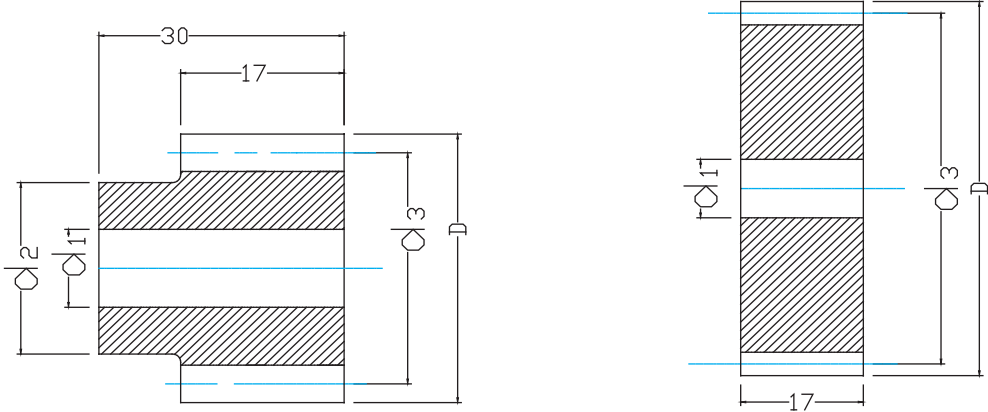
Treatment of Teeth: Milled

Hardness: No Heat treatment .

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

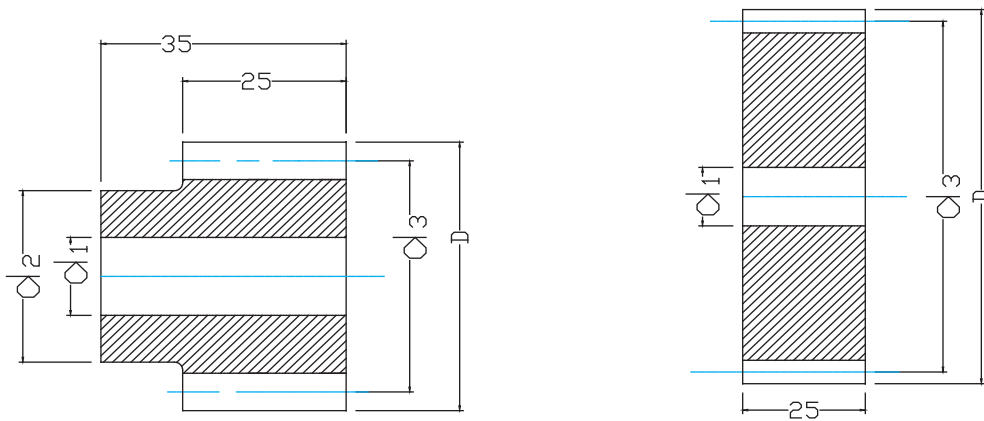
型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數1.5										
CSMH	15	12	1	12	6	14	18.0	21.0	...	...
CSMH	15	13	1	13	6	14	19.5	22.5	...	...
CSMH	15	14	1	14	6	16	21.0	24.0	...	...
CSMH	15	15	1	15	6	18	22.5	25.5	...	...
CSMH	15	16	1	16	6	18	24.0	27.0	...	...
CSMH	15	17	1	17	9	20	25.5	28.5	...	...
CSMH	15	18	1	18	9	20	27.0	30.0	...	...
CSMH	15	19	1	19	9	20	28.5	31.5	...	...
CSMH	15	20	1	20	9	25	30.0	33.0	...	...
CSMH	15	21	1	21	9	25	31.5	34.5	...	...
CSMH	15	22	1	22	9	25	33.0	36.0	...	...
CSMH	15	23	1	23	9	25	34.5	37.5	...	...
CSMH	15	24	1	24	9	25	36.0	39.0	...	...
CSMH	15	25	1	25	9	25	37.5	40.5	...	...
CSMH	15	30	1	30	9	30	45.0	48.0	...	...
CSMH	15	35	1	35	9	40	52.5	55.5	...	...
CSMH	15	38	1	38	9	40	57.0	60.0	...	...
CSMH	15	40	1	40	9	40	60.0	63.0	...	...
CSMH	15	45	1	45	12	50	67.5	70.5	...	...
CSMH	15	48	1	48	12	50	72.0	75.5	...	...
CSMH	15	50	1	50	12	50	75.0	78.0	...	...
CSMH	15	57	1	57	12	60	85.5	88.5	...	...
CSMH	15	60	1	60	12	60	90.0	93.5	...	...
CSMH	15	76	2	76	16	...	114.0	117.0	...	...
CSMH	15	80	2	80	16	...	120.0	123.0	...	...
CSMH	15	95	2	95	20	...	142.5	145.5	...	...

製程說明：
 精度等級：(JIS四級)8e25
 材料：(S45C中碳鋼)C45
 齒型：直齒
 齒面處理：精銑
 硬度處理：无
 壓力角：20度

Manufacturing Description:
 Precision Grade: (JIS Grade 4)8e25
 Material: (S45C Medium Carbon Steel)C45
 Type: Straight Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment.
 Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

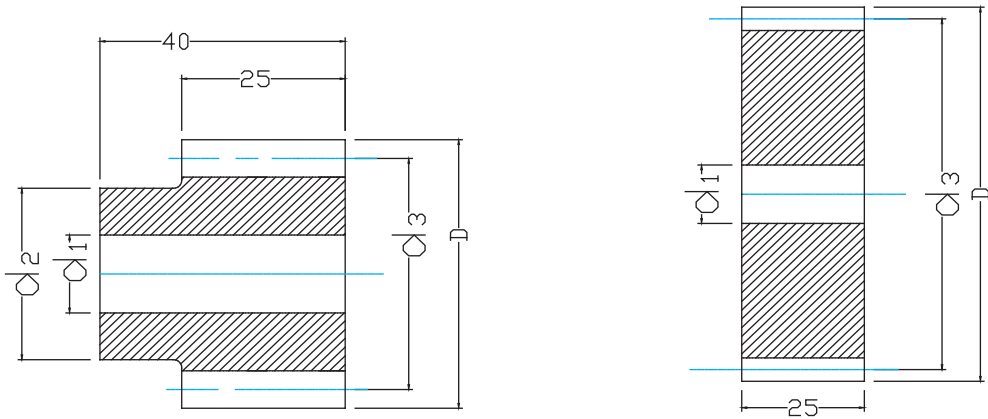
型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數2										
CSM	20	12	1	12	9	18.0	24.0	28.0	...	...
CSM	20	13	1	13	9	19.0	26.0	30.0	...	...
CSM	20	14	1	14	9	19.0	28.0	32.0	...	...
CSM	20	15	1	15	9	24.5	30.0	34.0	...	...
CSM	20	16	1	16	9	25.0	32.0	36.0	...	...
CSM	20	17	1	17	9	25.0	34.0	38.0	...	...
CSM	20	18	1	18	9	25.0	36.0	40.0	...	...
CSM	20	19	1	19	9	25.0	38.0	42.0	...	...
CSM	20	20	1	20	9	30.0	40.0	44.0	...	...
CSM	20	21	1	21	9	30.0	42.0	46.0	...	...
CSM	20	22	1	22	9	30.0	44.0	48.0	...	...
CSM	20	23	1	23	9	30.0	46.0	50.0	...	...
CSM	20	24	1	24	12	35.0	48.0	52.0	...	...
CSM	20	25	1	25	12	35.0	50.0	54.0	...	...
CSM	20	28	1	28	12	40.0	56.0	60.0	...	...
CSM	20	30	1	30	12	40.0	60.0	64.0	...	...
CSM	20	32	1	32	12	40.0	64.0	68.0	...	...
CSM	20	35	1	35	12	50.0	70.0	74.0	...	...
CSM	20	36	1	36	12	50.0	72.0	76.0	...	...
CSM	20	38	1	38	12	50.0	76.0	80.0	...	...
CSM	20	40	1	40	12	50.0	80.0	84.0	...	...
CSM	20	45	1	45	12	60.0	90.0	94.0	...	...
CSM	20	48	1	48	15	70.0	96.0	100.0	...	...
CSM	20	50	1	50	15	70.0	100.0	104.0	...	...
CSM	20	56	1	56	15	70.0	112.0	116.0	...	...
CSM	20	57	1	57	15	70.0	114.0	118.0	...	...
CSM	20	60	1	60	15	70.0	120.0	124.0	...	...
CSM	20	76	2	76	20	...	152.0	156.0	...	...
CSM	20	80	2	80	20	...	160.0	164.0	...	...
CSM	20	95	2	95	20	...	190.0	194.0	...	...

製程說明：
 精度等級：(JIS四級) 8e25
 材料：(S45C中碳鋼) C45
 齒型：直齒
 齒面處理：精銑
 硬度處理：无
 壓力角：20度

Manufacturing Description:
 Precision Grade: (JIS Grade 4) 8e25
 Material: (S45C Medium Carbon Steel) C45
 Type: Straight Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment.
 Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

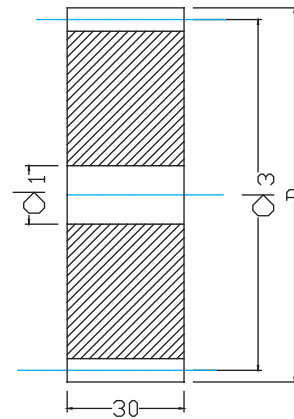
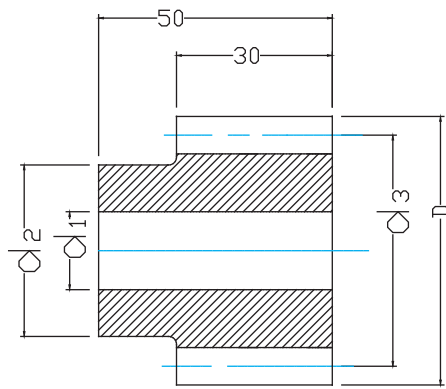
型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數2.5										
CSM	25	12	1	12	9	20.0	30.0	35.0	...	...
CSM	25	13	1	13	9	20.0	32.5	37.5	...	...
CSM	25	14	1	14	9	25.0	35.0	40.0	...	...
CSM	25	15	1	15	9	25.0	37.5	42.5	...	...
CSM	25	16	1	16	9	30.0	40.0	45.0	...	...
CSM	25	17	1	17	9	30.0	42.5	47.5	...	...
CSM	25	18	1	18	9	35.0	45.0	50.0	...	...
CSM	25	19	1	19	12	35.0	47.5	52.5	...	...
CSM	25	20	1	20	12	35.0	50.0	55.0	...	...
CSM	25	21	1	21	12	35.0	52.5	57.5	...	...
CSM	25	22	1	22	12	40.0	55.0	60.0	...	...
CSM	25	23	1	23	12	40.0	57.5	62.5	...	...
CSM	25	24	1	24	12	40.0	60.0	65.0	...	...
CSM	25	25	1	25	12	45.0	62.5	67.5	...	...
CSM	25	30	1	30	12	50.0	75.0	80.0	...	...
CSM	25	35	1	35	12	60.0	87.5	92.5	...	...
CSM	25	38	1	38	12	60.0	95.0	100.0	...	...
CSM	25	40	1	40	12	70.0	100.0	105.0	...	...
CSM	25	45	1	45	15	70.0	112.5	117.5	...	...
CSM	25	48	1	48	15	80.0	120.0	125.0	...	...
CSM	25	50	1	50	15	80.0	125.0	130.0	...	...
CSM	25	57	1	57	15	90.0	142.5	147.0	...	...
CSM	25	60	1	60	15	90.0	150.0	155.0	...	...
CSM	25	76	2	76	20	...	190.0	195.0	...	...
CSM	25	80	2	80	25	...	200.0	205.0	...	...
CSM	25	95	2	95	25	...	237.5	242.5	...	...

製程說明：
 精度等級：(JIS四級) 8e25
 材料：(S45C中碳鋼) C45
 齒型：直齒
 齒面處理：精銑
 硬度處理：无
 壓力角：20度

Manufacturing Description:
 Precision Grade: (JIS Grade 4)8e25
 Material: (S45C Medium Carbon Steel)C45
 Type: Straight Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment.
 Pressure Angle: 20 degree.

*不同尺寸與材質可以依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

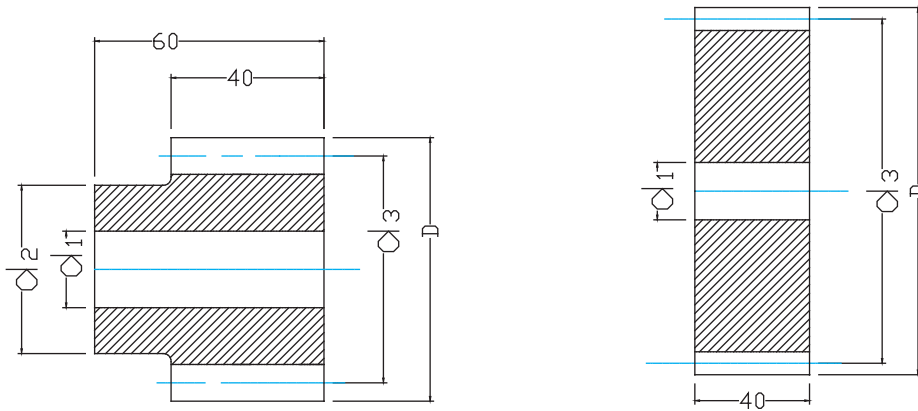
型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模数3										
CSM 30 12	1	12	14	25	36	42	...	...	...	...
CSM 30 13	1	13	14	25	39	45	...	...	...	...
CSM 30 14	1	14	14	25	42	48	...	...	...	...
CSM 30 15	1	15	14	35	45	51	...	...	...	...
CSM 30 16	1	16	14	35	48	54	...	...	...	...
CSM 30 17	1	17	14	42	51	57	...	...	...	...
CSM 30 18	1	18	14	45	54	60	...	...	...	...
CSM 30 19	1	19	14	45	57	63	...	...	...	...
CSM 30 20	1	20	14	45	60	66	...	...	...	...
CSM 30 21	1	21	14	45	63	69	...	...	...	...
CSM 30 22	1	22	14	50	66	72	...	...	...	...
CSM 30 23	1	23	14	50	69	75	...	...	...	...
CSM 30 24	1	24	14	50	72	78	...	...	...	...
CSM 30 25	1	25	14	60	75	81	...	...	...	...
CSM 30 27	1	27	14	60	81	87	...	...	...	...
CSM 30 28	1	28	14	60	84	90	...	...	...	...
CSM 30 30	1	30	14	60	90	96	...	...	...	...
CSM 30 32	1	32	14	60	96	102	...	...	...	...
CSM 30 35	1	35	14	80	105	111	...	...	...	...
CSM 30 36	1	36	14	80	108	114	...	...	...	...
CSM 30 38	1	38	14	80	114	120	...	...	...	...
CSM 30 40	1	40	14	80	120	126	...	...	...	...
CSM 30 45	2	45	20	...	135	141	...	...	...	...
CSM 30 48	1	48	20	...	144	150	...	...	...	...
CSM 30 50	2	50	25	...	150	156	...	...	...	...
CSM 30 52	2	52	25	...	156	162	...	...	...	...
CSM 30 56	2	56	25	...	168	174	...	...	...	...
CSM 30 60	2	60	25	...	180	186	...	...	...	...
CSM 30 76	2	76	25	...	228	234	...	...	...	...
CSM 30 80	2	80	25	...	240	246	...	...	...	...
CSM 30 95	2	95	25	...	285	291	...	...	...	...

製程說明：
 精度等級：(JIS四級) 8e25
 材料：(S45C中碳鋼) C45
 齒型：直齒
 齒面處理：精銑
 硬度處理：无
 壓力角：20度

Manufacturing Description:
 Precision Grade: (JIS Grade 4) 8e25
 Material: (S45C Medium Carbon Steel) C45
 Type: Straight Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment .
 Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

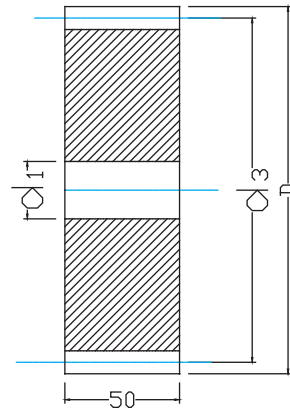
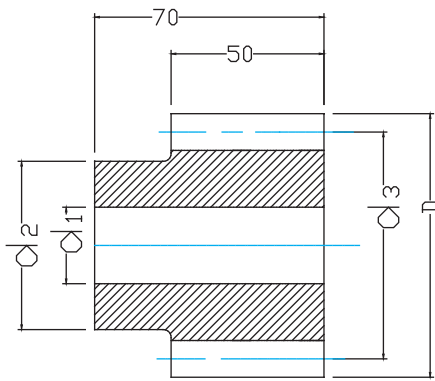
型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數4										
CSM	40	12	1	12	16	35	48	56	...	...
CSM	40	13	1	13	16	35	52	60	...	...
CSM	40	14	1	14	16	45	56	64	...	...
CSM	40	15	1	15	16	45	60	68	...	...
CSM	40	16	1	16	16	45	64	72	...	...
CSM	40	17	1	17	16	50	68	76	...	...
CSM	40	18	1	18	16	50	72	80	...	...
CSM	40	19	1	19	16	60	76	84	...	...
CSM	40	20	1	20	16	60	80	88	...	...
CSM	40	21	1	21	16	70	84	92	...	...
CSM	40	22	1	22	16	70	88	96	...	...
CSM	40	23	1	23	16	75	92	100	...	...
CSM	40	24	1	24	16	75	96	104	...	...
CSM	40	25	1	25	16	75	100	108	...	...
CSM	40	30	1	30	16	75	120	128	...	...
CSM	40	38	1	38	25	...	152	160	...	...
CSM	40	40	1	40	25	...	160	168	...	...
CSM	40	45	1	45	25	...	180	188	...	...
CSM	40	48	1	48	25	...	192	200	...	...
CSM	40	50	1	50	25	...	200	208	...	...
CSM	40	52	1	52	25	...	208	216	...	...
CSM	40	56	1	56	25	...	224	232	...	...
CSM	40	60	2	60	25	...	240	248	...	...
CSM	40	76	1	76	25	...	304	312	...	...
CSM	40	80	2	80	25	...	320	328	...	...
CSM	40	95	2	95	25	...	380	388	...	...

製程說明：
 精度等級：(JIS四級) 8e25
 材料：(S45C中碳鋼) C45
 齒型：直齒
 齒面處理：精銑
 硬度處理：无
 壓力角：20度

Manufacturing Description:
 Precision Grade: (JIS Grade 4) 8e25
 Material: (S45C Medium Carbon Steel) C45
 Type: Straight Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment
 Pressure Angle: 20 degree.

*不同尺寸與材質可依圖面客製。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

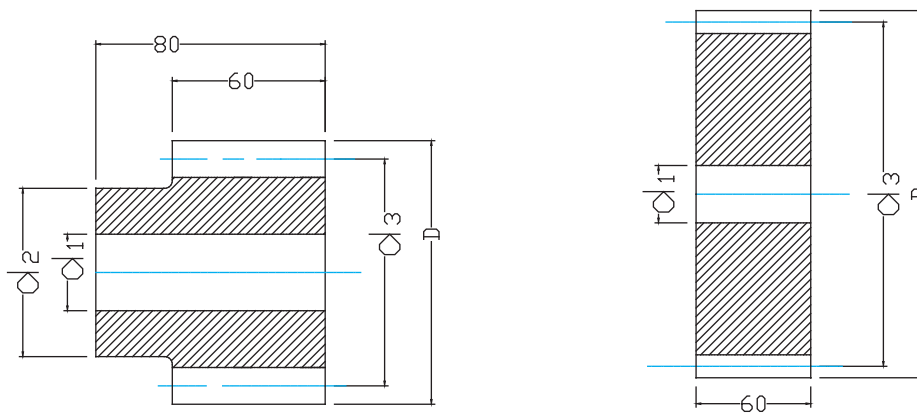
型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數5										
CSM	50	12	1	12	20	45	60	70	...	...
CSM	50	13	1	13	20	45	65	75	...	...
CSM	50	14	1	14	20	55	70	80	...	...
CSM	50	15	1	15	20	60	75	85	...	...
CSM	50	16	1	16	20	60	80	90	...	...
CSM	50	17	1	17	20	70	85	95	...	...
CSM	50	18	1	18	20	70	90	100	...	...
CSM	50	19	1	19	20	70	95	105	...	...
CSM	50	20	1	20	20	70	100	110	...	...
CSM	50	21	1	21	20	70	105	115	...	...
CSM	50	22	1	22	20	80	110	120	...	...
CSM	50	23	1	23	20	80	115	125	...	...
CSM	50	24	1	24	20	80	120	130	...	...
CSM	50	25	1	25	20	80	125	135	...	...
CSM	50	30	1	30	20	90	150	160	...	...
CSM	50	36	2	36	30	...	180	190	...	...
CSM	50	38	2	38	30	...	190	200	...	...
CSM	50	40	2	40	30	...	200	210	...	...
CSM	50	45	2	45	30	...	225	235	...	...
CSM	50	48	2	48	30	...	240	250	...	...
CSM	50	50	2	50	30	...	250	260	...	...
CSM	50	52	2	52	30	...	260	270	...	...
CSM	50	56	2	56	30	...	280	290	...	...
CSM	50	60	2	60	30	...	300	310	...	...
CSM	50	76	2	76	30	...	380	390	...	...
CSM	50	80	2	80	30	...	400	410	...	...
CSM	50	95	2	95	30	...	475	485	...	...

製程說明：
 精度等級：(JIS四級) 8e25
 材料：(S45C中碳鋼) C45
 齒型：直齒
 齒面處理：精銑
 硬度處理：无
 壓力角：20度

Manufacturing Description:
 Precision Grade: (JIS Grade 4) 8e25
 Material: (S45C Medium Carbon Steel) C45
 Type: Straight Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment.
 Pressure Angle: 20 degree.

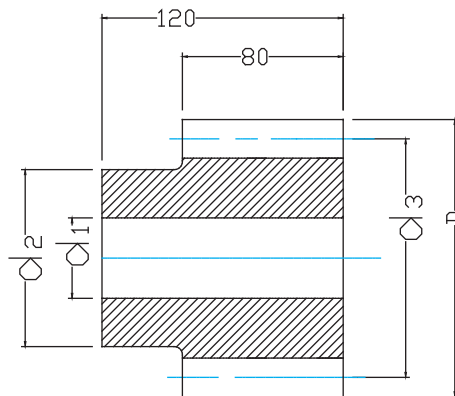
*不同尺寸與材質可以依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數6										
CSM	60	15	1	15	20	...	90	102	...	...
CSM	60	19	1	19	20	...	114	126	...	...
CSM	60	21	1	21	20	...	126	138	...	...
CSM	60	25	1	25	20	...	150	162	...	...
CSM	60	30	2	30	30	...	180	192	...	...
CSM	60	36	2	36	30	...	216	228	...	...
CSM	60	38	2	38	30	...	228	240	...	...
CSM	60	40	2	40	30	...	240	252	...	...



單位/Dimension: mm

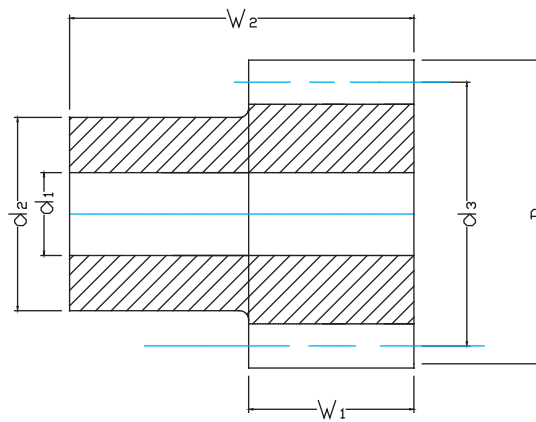
型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數8										
CSM	80	15		15	40	90	120	136	...	...
CSM	80	20		20	40	120	160	176	...	...
CSM	80	25		25	40	150	200	216	...	...

製程說明：
 精度等級：(JIS四級) 8e25
 材料：(S45C中碳鋼) C45
 齒型：直齒
 齒面處理：精銑
 硬度處理：无
 壓力角：20度

Manufacturing Description:
 Precision Grade: (JIS Grade 4)8e25
 Material: (S45C Medium Carbon Steel)C45
 Type: Straight Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment.
 Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code		齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模数2										
CHM	20	20	20	9	30	42.44	46.4	28	35	...
CHM	20	25	25	12	35	53.05	57.1	28	35	...
CHM	20	30	30	12	40	63.66	67.7	28	35	...
模数3										
CHM	30	20	20	14	45	63.66	69.7	30	50	...
CHM	30	25	25	14	60	79.58	85.6	30	50	...
模数4										
CHM	40	15	15	16	50	63.66	71.7	40	60	...
CHM	40	20	20	16	60	84.88	92.9	40	60	...
CHM	40	25	25	16	75	106.10	114.1	40	60	...
模数5										
CHM	50	20	20	20	70	106.10	116.1	50	70	...
CHM	50	25	25	20	80	132.60	142.6	50	70	...
模数6										
CHM	60	20	20	20	90	127.30	139.3	60	80	...
CHM	60	25	25	20	110	159.20	171.2	60	80	...
模数8										
CHM	80	20	20	40	120	166.08	182.0	80	120	...

製程說明：
 精度等級：(JIS四級) 8e25
 材料：(S45C中碳鋼) C45
 齒型：斜齒
 齒面處理：精銑
 硬度處理：无
 壓力角：20度

Manufacturing Description:
 Precision Grade: (JIS Grade 4)8e25
 Material: (S45C Medium Carbon Steel)C45
 Type:Helical Rack
 Treatment of Teeth: Milled
 Hardness:No Heat treatment .
 Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.

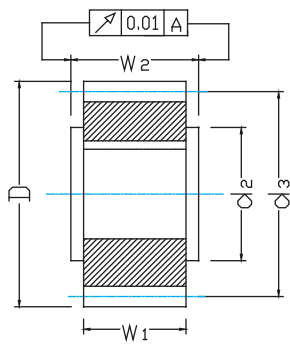


圖1

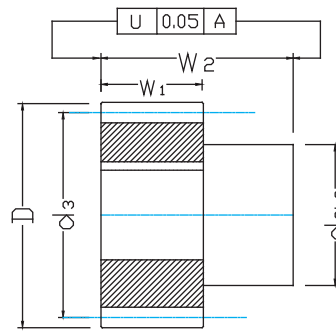


圖2

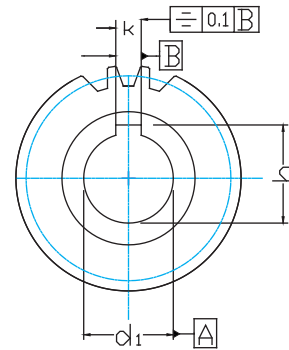


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h
模數2										
MSGH 20 16 1 1	16	15	25	32	36	28	30.0	5	17.3	
MSGH 20 18 1 1	18	15	30	36	40	28	30.0	5	17.3	
MSGH 20 18 2 1	18	20	25	36	40	28	30.0	6	22.8	
MSGH 20 20 1 1	20	15	25	40	44	28	30.0	6	17.3	
MSGH 20 20 2 1	20	20	30	40	44	28	30.0	6	22.8	
MSGH 20 22 1 1	22	15	25	44	48	28	30.0	5	17.3	
MSGH 20 22 2 1	22	20	30	44	48	28	30.0	6	22.8	
MSGH 20 22 3 1	22	25	36	44	48	28	30.0	8	28.3	
MSGH 20 25 1 2	25	16	30	50	54	28	54.0	5	18.3	
MSGH 20 25 2 1	25	20	30	50	54	28	30.0	6	22.8	
MSGH 20 25 3 2	25	22	36	50	54	28	56.0	6	24.8	
MSGH 20 25 4 1	25	25	36	50	54	28	30.0	8	28.3	
MSGH 20 25 5 1	25	30	45	50	54	28	30.0	8	33.3	
MSGH 20 28 1 1	28	20	30	56	60	28	30.0	6	22.8	
MSGH 20 28 2 1	28	25	36	56	60	28	30.0	8	28.3	
MSGH 20 28 3 2	28	30	50	56	60	28	60.0	8	33.3	
MSGH 20 28 4 1	28	30	45	56	60	28	30.0	8	33.3	
MSGH 20 28 5 1	28	35	48	56	60	28	30.0	10	38.3	
MSGH 20 32 1 1	32	15	36	64	68	28	30.0	5	17.3	
MSGH 20 32 2 2	32	16	30	64	68	28	54.0	5	18.3	
MSGH 20 32 3 1	32	20	30	64	68	28	30.0	6	22.8	
MSGH 20 32 4 2	32	22	36	64	68	28	56.0	6	24.8	
MSGH 20 32 5 1	32	25	36	64	68	28	30.0	8	28.3	
MSGH 20 32 6 2	32	30	50	64	68	28	60.0	8	33.3	
MSGH 20 32 7 1	32	30	45	64	68	28	30.0	8	33.3	
MSGH 20 32 8 2	32	32	55	64	68	28	65.0	10	35.3	
MSGH 20 32 9 1	32	35	48	64	68	28	30.0	10	38.3	
MSGH 20 36 1 1	36	25	36	72	76	28	30.0	8	28.3	

製程說明：
 精度等級：(JIS四級) 8e25
 材料：(S45C中碳鋼) C45
 齒型：斜齒
 齒面處理：精銑
 硬度處理：无
 壓力角：20度

Manufacturing Description:
 Precision Grade: (JIS Grade 4) 8e25
 Material: (S45C Medium Carbon Steel) C45
 Type: Helical Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment.
 Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製。

*Other Dimensions/Materials could be customized by drawings.

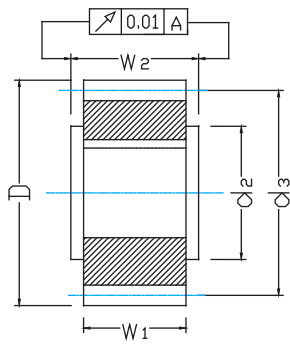


圖1

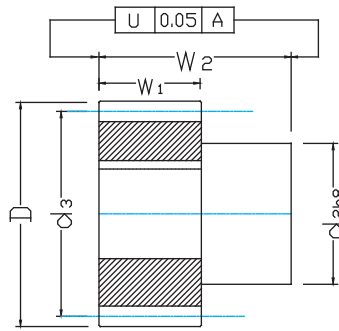


圖2

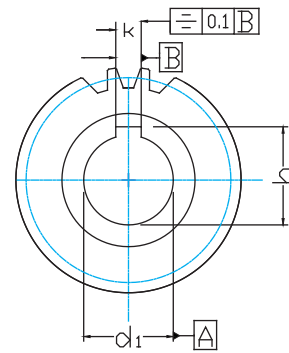


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h			
模數2													
MSGH	20	36	1	1	36	30	45	72	76	28	30.0	8	33.3
MSGH	20	36	2	1	36	35	48	72	76	28	30.0	10	38.3
MSGH	20	36	3	2	36	40	62	72	76	28	65.0	12	43.3
MSGH	20	36	4	1	36	45	58	72	76	28	30.0	14	48.8
MSGH	20	40	1	1	40	25	36	80	84	28	30.0	8	28.3
MSGH	20	40	2	1	40	30	45	80	84	28	30.0	8	33.3
MSGH	20	40	3	2	40	32	55	80	84	28	65.0	10	35.3
MSGH	20	40	4	1	40	35	48	80	84	28	30.0	10	38.3
MSGH	20	40	5	2	40	40	62	80	84	28	65.0	12	43.3
MSGH	20	40	6	2	40	45	68	80	84	28	65.0	14	48.8
MSGH	20	40	7	1	40	45	58	80	84	28	30.0	14	48.8
MSGH	20	45	1	1	45	35	48	90	94	28	30.0	10	38.3
MSGH	20	45	2	1	45	45	58	90	94	28	30.0	14	48.8
MSGH	20	50	1	1	50	35	48	100	104	28	30.0	10	38.3
MSGH	20	50	2	1	50	45	58	100	104	28	30.0	14	48.8
MSGH	20	50	3	2	50	45	68	100	104	28	65.0	14	48.8
MSGH	20	56	1	1	56	35	48	112	116	28	30.0	10	38.3
模數3													
MSGH	30	18	1	1	18	25	36	54	60	28	30.0	8	28.3
MSGH	30	20	1	1	20	25	36	60	66	28	30.0	8	28.3
MSGH	30	20	2	1	20	30	45	60	66	28	30.0	8	33.3
MSGH	30	20	3	1	20	35	48	60	66	28	30.0	10	38.3
MSGH	30	22	1	2	22	22	36	66	72	28	56.0	6	24.8
MSGH	30	22	2	2	22	25	44	66	72	28	60.0	8	28.3
MSGH	30	22	3	1	22	25	36	66	72	28	30.0	8	28.3
MSGH	30	22	4	2	22	30	50	66	72	28	60.0	8	33.3
MSGH	30	22	5	1	22	30	45	66	72	28	30.0	8	33.3
MSGH	30	22	6	2	22	32	55	66	72	28	65.0	10	35.3

製程說明：

精度等級：(JIS三級) 7e25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：研磨

硬度處理：熱處理; 硬度為45~50°度

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3) 7e25

Material: (SCM440 Chromium Molybdenum Alloy Steel) 42CrM04

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment ; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.

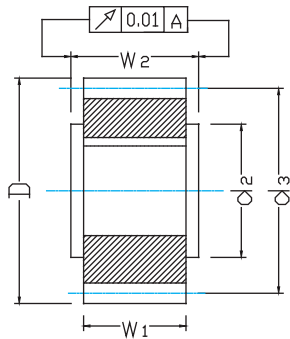


圖1

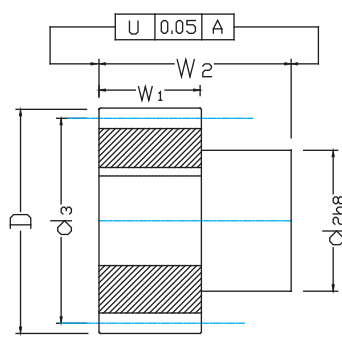


圖2

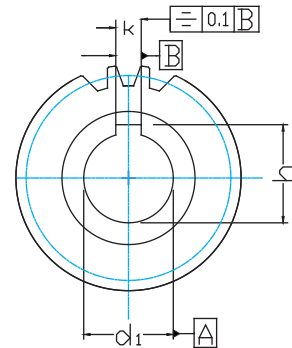


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h	
模數3											
MSGH 30	22	1	22	35	55	66	72	28	65.0	10	38.3
MSGH 30	22	2	1	22	35	48	66	72	28	30.0	38.3
MSGH 30	25	1	1	25	25	36	75	81	28	30.0	28.3
MSGH 30	25	2	1	25	30	45	75	81	28	30.0	33.3
MSGH 30	25	3	1	25	35	48	75	81	28	30.0	38.3
MSGH 30	25	4	2	25	40	62	75	81	28	65.0	43.3
MSGH 30	25	5	1	25	45	58	75	81	28	30.0	48.8
MSGH 30	28	1	2	28	22	36	84	90	28	56.0	24.8
MSGH 30	28	2	2	28	25	44	84	90	28	60.0	28.3
MSGH 30	28	3	1	28	25	36	84	90	28	30.0	28.3
MSGH 30	28	4	2	28	30	50	84	90	28	60.0	33.3
MSGH 30	28	5	1	28	30	45	84	90	28	30.0	33.3
MSGH 30	28	6	2	28	32	55	84	90	28	65.0	35.3
MSGH 30	28	7	2	28	35	55	84	90	28	65.0	38.3
MSGH 30	28	8	1	28	35	48	84	90	28	30.0	38.3
MSGH 30	28	9	2	28	45	68	84	90	28	65.0	48.8
MSGH 30	28	10	1	28	45	58	84	90	28	30.0	48.8
MSGH 30	32	1	1	32	25	36	96	102	28	30.0	28.3
MSGH 30	32	2	1	32	30	45	96	102	28	30.0	33.3
MSGH 30	32	3	1	32	35	48	96	102	28	30.0	38.3
MSGH 30	32	4	3	32	40	62	96	102	28	65.0	43.3
MSGH 30	32	5	1	32	45	58	96	102	28	30.0	48.8
MSGH 30	36	1	1	36	35	48	108	114	28	30.0	38.3
MSGH 30	36	2	3	36	45	68	108	114	28	65.0	48.8
MSGH 30	36	3	1	36	45	58	108	114	28	30.0	48.8
MSGH 30	40	1	1	40	35	48	120	126	28	30.0	38.3
MSGH 30	40	2	1	40	45	58	120	126	28	30.0	48.8

製程說明:

精度等級: (JIS三級) 7e25

材料: (SCM440 鉻鉬合金鋼) 42CrM04

齒型: 直齒

齒面處理: 研磨

硬度處理: 熱處理; 硬度為45~50°度

壓力角: 20度

Manufacturing Description:

Precision Grade: (JIS Grade 3) 7e25

Material: (SCM440 Chromium Molybdenum Alloy Steel) 42CrM04

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質可以依照圖面客製。

*Other Dimensions/Materials could be customized by drawings.

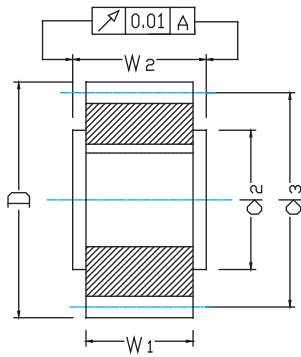


圖1

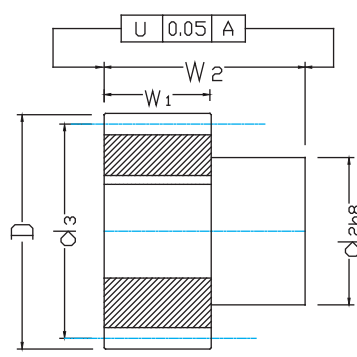


圖2

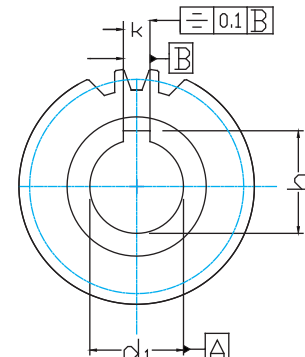


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖		齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h		
模数4													
MSGH	40	20	1	2	20	32	55	80	88	40	75.0	10	35.3
MSGH	40	20	2	1	20	35	52	80	88	40	50.0	10	38.3
MSGH	40	20	3	2	20	35	55	80	88	40	75.0	10	38.3
MSGH	40	20	4	2	20	40	62	80	88	40	75.0	12	43.3
MSGH	40	20	5	1	20	45	65	80	88	40	50.0	14	48.8
MSGH	40	22	1	1	22	35	52	88	96	40	50.0	10	38.3
MSGH	40	22	2	1	22	45	65	88	96	40	50.0	14	48.8
MSGH	40	22	3	2	22	45	68	88	96	40	75.0	14	48.8
MSGH	40	25	1	2	25	32	55	100	108	40	75.0	10	35.3
MSGH	40	25	2	1	25	35	52	100	108	40	50.0	10	38.3
MSGH	40	25	3	2	25	35	55	100	108	40	75.0	10	38.3
MSGH	40	25	4	2	25	40	62	100	108	40	75.0	12	43.3
MSGH	40	25	5	1	25	45	65	100	108	40	50.0	14	48.8
MSGH	40	25	6	2	25	55	80	100	108	40	80.0	16	59.3
MSGH	40	28	1	1	28	35	52	112	120	40	50.0	10	38.3
MSGH	40	28	2	1	28	45	65	112	120	40	50.0	14	48.8
MSGH	40	28	3	2	28	45	68	112	120	40	75.0	14	48.8
MSGH	40	32	1	1	32	35	52	128	136	40	50.0	10	38.3
MSGH	40	32	2	1	32	45	65	128	136	40	50.0	14	48.8
MSGH	40	32	3	2	32	55	80	128	136	40	80.0	16	59.3
MSGH	40	32	4	2	32	75	110	128	136	40	100.0	20	80.4
MSGH	40	40	1	1	40	45	65	160	168	40	50.0	14	48.8
MSGH	40	40	2	1	40	60	80	160	168	40	50.0	18	64.4
MSGH	40	40	3	2	40	75	110	160	168	40	100.0	20	80.4

製程說明：

精度等級：(JIS三級) 7e25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：研磨

硬度處理：熱處理;硬度為45~50°度

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3)7e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質可以依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.

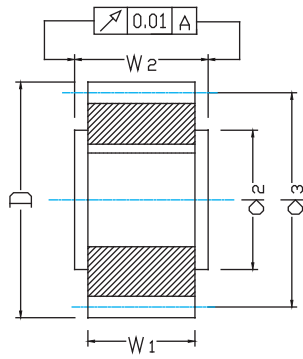


圖1

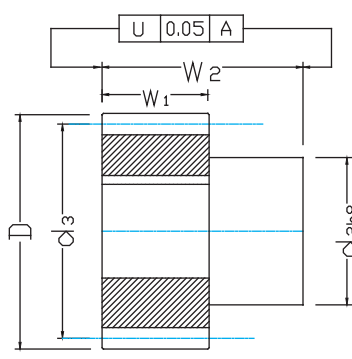


圖2

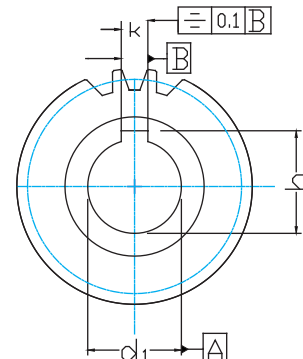


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖				齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h
模数5													
MSGH	50	21	1	2	21	45	68	105	115	50	85.0	14	48.8
MSGH	50	21	2	2	21	55	80	105	115	50	90.0	16	59.3
MSGH	50	25	1	2	25	45	68	125	135	50	85.0	14	48.8
MSGH	50	25	2	2	25	55	80	125	135	50	90.0	16	59.3
MSGH	50	25	3	2	25	75	110	125	135	50	110.0	20	80.4
模数6													
MSGH	60	21	1	2	21	55	80	126	138	60	100.0	16	59.3
MSGH	60	21	2	2	21	75	110	126	138	60	120.0	20	79.9
MSGH	60	25	1	2	25	55	80	150	162	60	100.0	16	59.3
MSGH	60	25	2	2	25	75	110	150	162	60	120.0	20	79.9

製程說明：

精度等級：(JIS三級)7e25

材料：(SCM440 鉻鉬合金鋼)42CrM04

齒型：直齒

齒面處理：研磨

硬度處理：熱處理;硬度為45~50°度

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3)7e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.

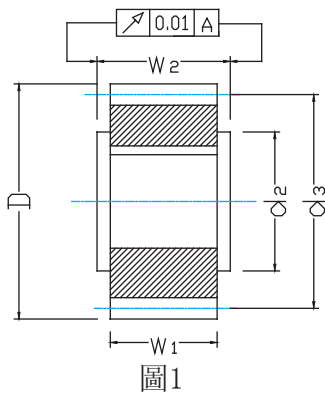


圖1

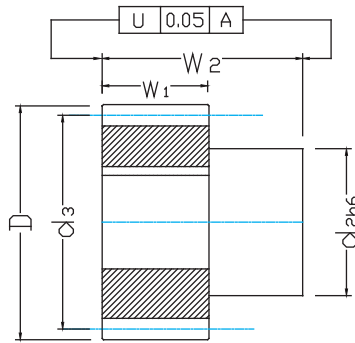


圖2

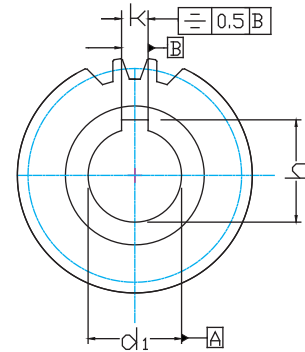


圖1+2鍵槽在齒隙中間

單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h			
模數2													
MHGH	20	20	1	1	20	20	30	42.44	46.4	28	30	6	22.8
MHGH	20	20	2	1	20	22	30	42.44	46.4	28	30	6	24.8
MHGH	20	21	1	1	21	16	25	44.56	48.6	28	30	5	18.3
MHGH	20	21	2	2	21	22	36	44.56	48.6	28	56	6	24.8
MHGH	20	25	1	1	25	20	30	53.05	57.1	28	30	6	22.8
MHGH	20	25	2	1	25	25	36	53.05	57.1	28	30	8	28.3
MHGH	20	28	1	1	28	35	48	59.42	63.4	28	30	10	38.3
MHGH	20	30	1	1	30	16	25	63.66	67.7	28	30	5	18.3
MHGH	20	30	2	1	30	20	30	63.66	67.7	28	30	6	22.8
MHGH	20	30	3	2	30	22	36	63.66	67.7	28	56	6	24.8
MHGH	20	30	4	1	30	25	36	63.66	67.7	28	30	8	28.3
MHGH	20	30	5	2	30	30	50	63.66	67.7	28	60	8	33.3
MHGH	20	30	6	2	30	32	55	63.66	67.7	28	65	10	35.3
MHGH	20	32	1	1	32	20	30	67.91	71.9	28	30	6	22.8
MHGH	20	32	2	1	32	25	36	67.91	71.9	28	30	8	28.3
MHGH	20	32	3	1	32	35	48	67.91	71.9	28	30	10	38.3
MHGH	20	36	1	1	36	35	48	76.39	80.4	28	30	10	38.3
MHGH	20	39	1	2	39	32	55	82.76	86.8	28	65	10	35.3
MHGH	20	40	1	1	40	35	48	84.88	88.9	28	30	10	38.3
模數3													
MHGH	30	20	1	2	20	22	36	63.66	69.7	28	56	6	24.8
MHGH	30	20	2	2	20	25	44	63.66	69.7	28	60	8	28.3
MHGH	30	20	3	1	20	30	45	63.66	69.7	28	30	8	33.3
MHGH	30	20	4	2	20	30	50	63.66	69.7	28	60	8	33.3
MHGH	30	20	5	2	20	32	55	63.66	69.7	28	65	10	35.3
MHGH	30	20	6	1	20	35	48	63.66	69.7	28	30	10	38.3
MHGH	30	22	1	1	22	25	36	70.03	76	28	30	8	28.3

製程說明：

精度等級：(JIS三級) 7e25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理；硬度為45~50°度

左旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3) 7e25

Material: (SCM440 Chromium Molybdenum Alloy Steel) 42CrM04

Type: Helical Rack

Treatment of Teeth: Ground

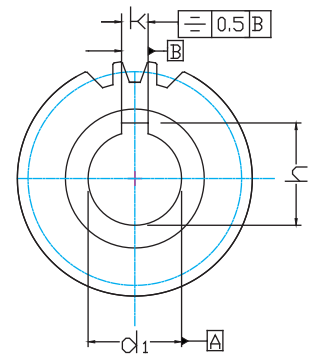
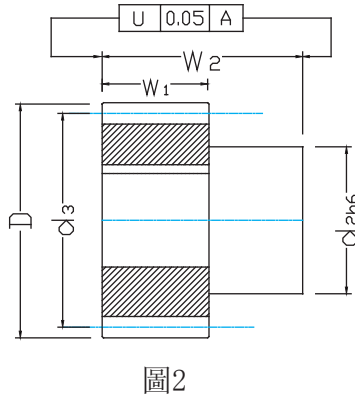
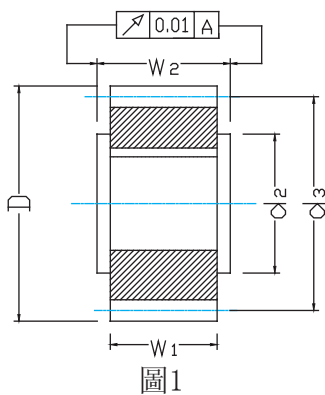
Hardness: Heat treatment ; 45~50 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h			
模数3													
MHGH	30	22	1	1	22	30	45	70.03	76.0	28	30	8	33.3
MHGH	30	22	2	1	22	35	48	70.03	76.0	28	30	10	38.3
MHGH	30	25	1	2	25	22	36	79.58	85.6	28	56	6	24.8
MHGH	30	25	2	1	25	25	36	79.58	85.6	28	30	8	28.3
MHGH	30	25	3	2	25	25	44	79.58	85.6	28	60	8	28.3
MHGH	30	25	4	1	25	30	45	79.58	85.6	28	30	8	33.3
MHGH	30	25	5	2	25	30	50	79.58	85.6	28	60	8	33.3
MHGH	30	25	6	2	25	32	55	79.58	85.6	28	65	10	35.3
MHGH	30	25	7	1	25	35	48	79.58	85.6	28	30	10	38.3
MHGH	30	25	8	2	25	35	55	79.58	85.6	28	65	10	38.3
MHGH	30	25	9	1	25	40	70	79.58	85.6	28	50	12	43.3
模数4													
MHGH	40	15	1	1	15	35	52	63.66	71.7	40	50	10	38.3
MHGH	40	18	1	2	18	32	55	76.39	84.4	40	75	10	35.3
MHGH	40	20	1	1	20	35	52	84.88	92.9	40	50	10	38.3
MHGH	40	20	2	1	20	45	65	84.88	92.9	40	50	14	48.8
MHGH	40	21	1	2	21	32	55	89.13	97.1	40	75	10	35.3
MHGH	40	21	2	2	21	35	55	89.13	97.1	40	75	10	38.3
MHGH	40	21	3	2	21	40	62	89.13	97.1	40	75	12	43.3
MHGH	40	21	4	2	21	45	68	89.13	97.1	40	75	14	48.8
MHGH	40	22	1	1	22	35	52	93.37	101.4	40	50	10	38.3
MHGH	40	22	2	1	22	45	65	93.37	101.4	40	50	14	48.8
MHGH	40	24	1	2	24	32	55	101.86	109.9	40	75	10	35.3
MHGH	40	24	2	2	24	35	55	101.86	109.9	40	75	10	38.3
MHGH	40	24	3	2	24	40	62	101.86	109.9	40	75	12	43.3
MHGH	40	24	4	2	24	45	68	101.86	109.9	40	75	14	48.8
MHGH	40	24	5	2	24	55	80	101.86	109.9	40	80	16	59.3
MHGH	40	25	1	1	25	35	52	106.10	114.1	40	50	10	38.3
MHGH	40	25	2	1	25	45	65	106.10	114.1	40	50	14	48.8

製程說明：

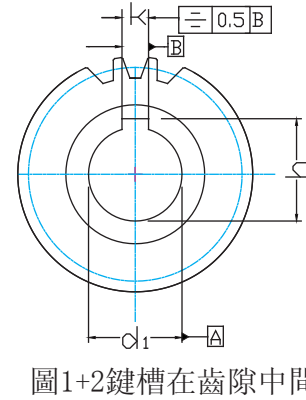
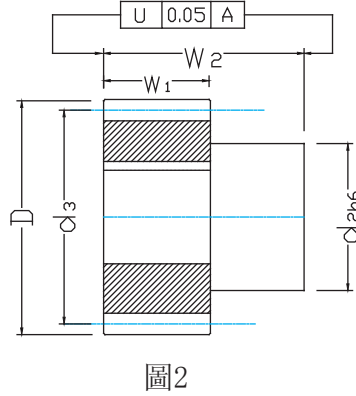
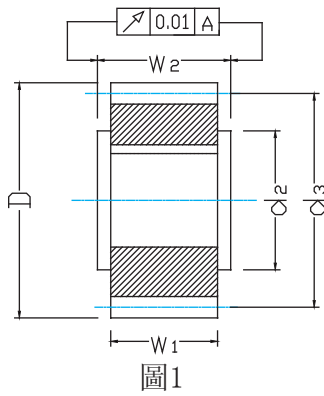
精度等級：(JIS三級) 7e25
 材料：(S45C中碳鋼) C45
 齒型：斜齒
 齒面處理：研磨
 硬度處理：熱處理; 硬度為45~50°度
 左旋角：19°31'42"
 壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3) 7e25
 Material: (S45C Medium Carbon Steel) C45
 Type: Helical Rack
 Treatment of Teeth: Ground
 Hardness: Heat treatment ; 45~50 degree.
 left Hand Angle: 19°31'42"
 Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h			
模数5													
MHGH	50	18	1	2	18	45	68	95.49	105.5	50	85	14	48.8
MHGH	50	24	1	2	24	45	68	127.32	137.0	50	85	14	48.8
MHGH	50	24	2	2	24	55	80	127.32	137.3	50	90	16	59.3
MHGH	50	24	3	2	24	75	110	127.32	137.3	50	110	20	79.9
模数6													
MHGH	60	20	1	2	20	55	80	127.32	139.3	60	100	16	59.3
MHGH	60	20	2	2	20	75	110	127.32	139.3	60	120	20	79.9
MHGH	60	25	1	2	25	55	80	159.16	171.2	60	100	16	59.3
MHGH	60	25	2	2	25	75	110	159.16	171.2	60	120	20	79.9
模数8													
MHGH	80	18	1	2	18	75	110	152.79	168.8	80	140	20	79.9

製程說明：

精度等級：(JIS三級) 7e25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理; 硬度為45~50°度

左旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 3) 7e25

Material: (SCM440 Chromium Molybdenum Alloy Steel) 42CrM04

Type: Helical Rack

Treatment of Teeth: Ground

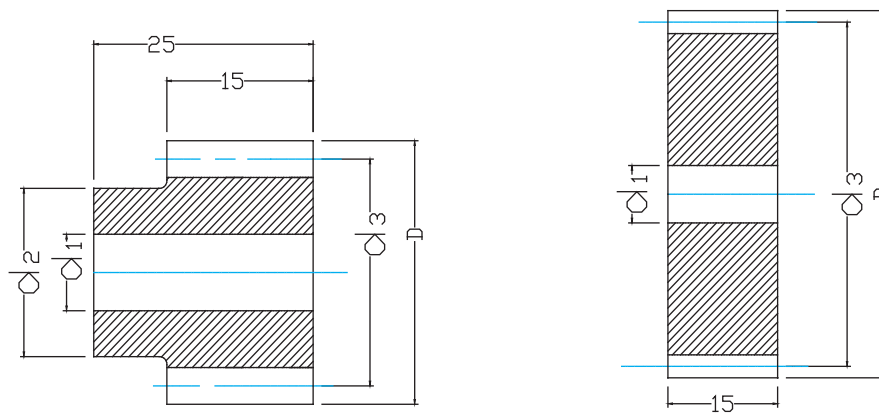
Hardness: Heat treatment; 45~50 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*不同尺寸與材質可以依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數1										
MSM 10 12	1	12	6	9	12.0	14.0	...	...	...	...
MSM 10 13	1	13	6	9	13.0	15.0	...	...	...	...
MSM 10 14	1	14	6	11	14.0	16.0	...	...	...	...
MSM 10 15	1	15	6	12	15.0	17.0	...	...	...	...
MSM 10 16	1	16	6	12	16.0	18.0	...	...	...	...
MSM 10 17	1	17	6	14	17.0	19.0	...	...	...	...
MSM 10 18	1	18	6	15	18.0	20.0	...	...	...	...
MSM 10 19	1	19	6	15	19.0	21.0	...	...	...	...
MSM 10 20	1	20	6	16	20.0	22.0	...	...	...	...
MSM 10 21	1	21	6	16	21.0	23.0	...	...	...	...
MSM 10 22	1	22	6	18	22.0	24.0	...	...	...	...
MSM 10 23	1	23	6	18	23.0	25.0	...	...	...	...
MSM 10 24	1	24	9	20	24.0	26.0	...	...	...	...
MSM 10 25	1	25	9	20	25.0	27.0	...	...	...	...
MSM 10 30	1	30	9	20	30.0	32.0	...	...	...	...
MSM 10 35	1	35	9	25	35.0	37.0	...	...	...	...
MSM 10 38	1	38	9	25	38.0	40.0	...	...	...	...
MSM 10 40	1	40	9	25	40.0	42.0	...	...	...	...
MSM 10 45	1	45	9	30	45.0	47.0	...	...	...	...
MSM 10 48	1	48	9	30	48.0	50.0	...	...	...	...
MSM 10 50	1	50	9	30	50.0	52.0	...	...	...	...
MSM 10 57	1	57	9	40	57.0	59.0	...	...	...	...
MSM 10 60	1	60	9	40	60.0	62.0	...	...	...	...
MSM 10 76	1	76	10	...	76.0	78.0	...	...	...	...
MSM 10 80	1	80	10	...	80.0	82.0	...	...	...	...
MSM 10 95	1	95	10	...	95.0	97.0	...	...	...	...
MSM 10 100	1	100	10	...	100.0	102.0	...	...	...	...
MSM 10 114	1	114	10	...	114.0	116.0	...	...	...	...

製程說明：

精度等級：(JIS四級) 8e25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：精銑

硬度處理：无

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 4)8e25

Material:(SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

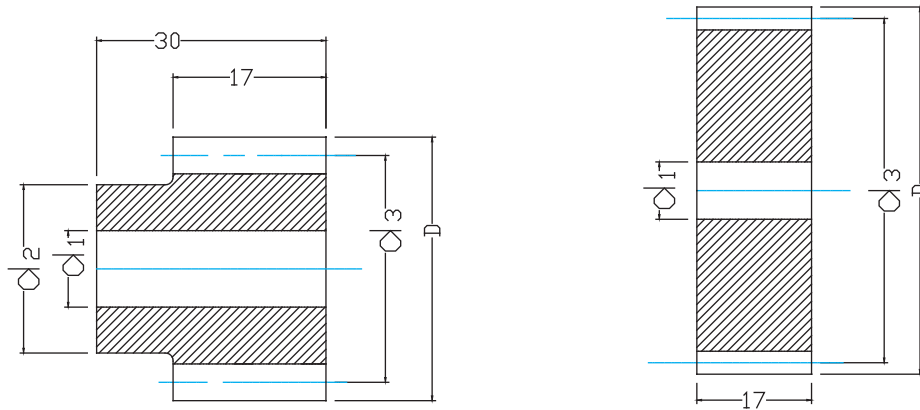
Treatment of Teeth: Milled

Hardness: No Heat treatment .

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模数1.5										
MSM	15	12	1	12	6	14	18.0	21.0	...	...
MSM	15	13	1	13	6	14	19.5	22.5	...	...
MSM	15	14	1	14	6	16	21.0	24.0	...	...
MSM	15	15	1	15	6	18	22.5	25.5	...	...
MSM	15	16	1	16	6	18	24.0	27.0	...	...
MSM	15	17	1	17	9	20	25.5	28.5	...	...
MSM	15	18	1	18	9	20	27.0	30.0	...	...
MSM	15	19	1	19	9	20	28.5	31.5	...	...
MSM	15	20	1	20	9	25	30.0	33.0	...	...
MSM	15	21	1	21	9	25	31.5	34.5	...	...
MSM	15	22	1	22	9	25	33.0	36.0	...	...
MSM	15	23	1	23	9	25	34.5	37.5	...	...
MSM	15	24	1	24	9	25	36.0	39.0	...	...
MSM	15	25	1	25	9	25	37.5	40.5	...	...
MSM	15	30	1	30	9	30	45.0	48.0	...	...
MSM	15	35	1	35	9	40	52.5	55.5	...	...
MSM	15	38	1	38	9	40	57.0	60.0	...	...
MSM	15	40	1	40	9	40	60.0	63.0	...	...
MSM	15	45	1	45	12	50	67.5	70.5	...	...
MSM	15	48	1	48	12	50	72.0	75.5	...	...
MSM	15	50	1	50	12	50	75.0	78.0	...	...
MSM	15	57	1	57	12	60	85.5	88.5	...	...
MSM	15	60	1	60	12	60	90.0	93.5	...	...
MSM	15	76	2	76	16	...	114.0	117.0	...	...
MSM	15	80	2	80	16	...	120.0	123.0	...	...
MSM	15	95	2	95	20	...	142.5	145.5	...	...

製程說明：

精度等級：(JIS四級) 8e25

材料：(SCM440 鎢鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：精銑

硬度處理：无

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 4)8e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

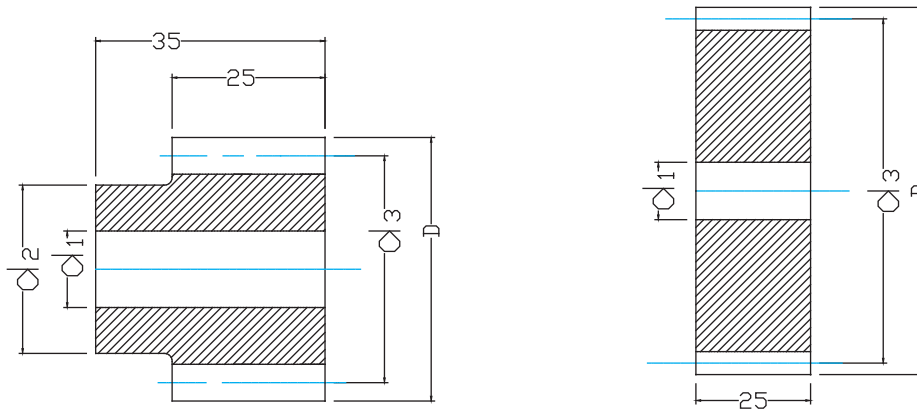
Treatment of Teeth: Milled

Hardness:No Heat treatment .

Pressure Angle: 20 degree.

*不同尺寸與材質可以依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數2										
MSM	20	12	1	12	9	18.0	24.0	28.0	...	...
MSM	20	13	1	13	9	19.0	26.0	30.0	...	...
MSM	20	14	1	14	9	19.0	28.0	32.0	...	...
MSM	20	15	1	15	9	24.5	30.0	34.0	...	...
MSM	20	16	1	16	9	25.0	32.0	36.0	...	...
MSM	20	17	1	17	9	25.0	34.0	38.0	...	...
MSM	20	18	1	18	9	25.0	36.0	40.0	...	...
MSM	20	19	1	19	9	25.0	38.0	42.0	...	...
MSM	20	20	1	20	9	30.0	40.0	44.0	...	...
MSM	20	21	1	21	9	30.0	42.0	46.0	...	...
MSM	20	22	1	22	9	30.0	44.0	48.0	...	...
MSM	20	23	1	23	9	30.0	46.0	50.0	...	...
MSM	20	24	1	24	12	35.0	48.0	52.0	...	...
MSM	20	25	1	25	12	35.0	50.0	54.0	...	...
MSM	20	28	1	28	12	40.0	56.0	60.0	...	...
MSM	20	30	1	30	12	40.0	60.0	64.0	...	...
MSM	20	32	1	32	12	40.0	64.0	68.0	...	...
MSM	20	35	1	35	12	50.0	70.0	74.0	...	...
MSM	20	36	1	36	12	50.0	72.0	76.0	...	...
MSM	20	38	1	38	12	50.0	76.0	80.0	...	...
MSM	20	40	1	40	12	50.0	80.0	84.0	...	...
MSM	20	45	1	45	12	60.0	90.0	94.0	...	...
MSM	20	48	1	48	15	70.0	96.0	100.0	...	...
MSM	20	50	1	50	15	70.0	100.0	104.0	...	...
MSM	20	56	1	56	15	70.0	112.0	116.0	...	...
MSM	20	57	1	57	15	70.0	114.0	118.0	...	...
MSM	20	60	1	60	15	70.0	120.0	124.0	...	...
MSM	20	76	2	76	20	...	152.0	156.0	...	...
MSM	20	80	2	80	20	...	160.0	164.0	...	...
MSM	20	95	2	95	20	...	190.0	194.0	...	...

製程說明：

精度等級：(JIS四級) 8e25

材料：(SCM440 鎢鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：精銑

硬度處理：无

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 4) 8e25

Material: (SCM440 鎢鉬合金鋼) 42CrM04

Type: Straight Rack

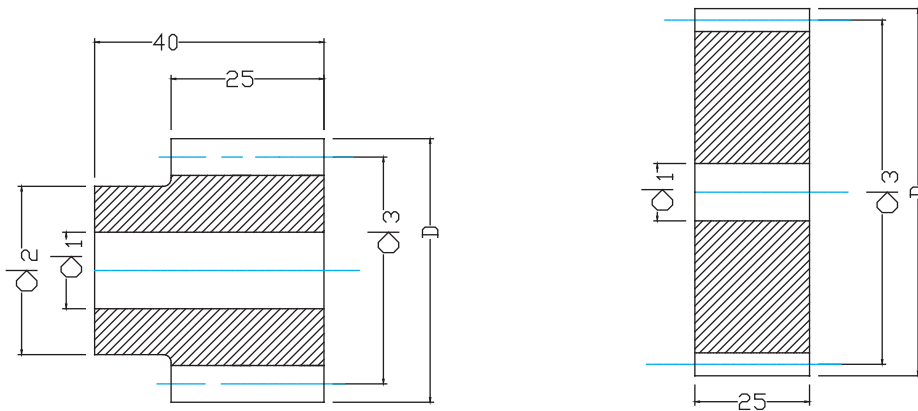
Treatment of Teeth: Milled

Hardness: No Heat treatment .

Pressure Angle: 20 degree.

*不同尺寸與材質可以依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模数2.5										
MSM	25	12	1	12	9	20.0	30.0	35.0	...	...
MSM	25	13	1	13	9	20.0	32.5	37.5	...	...
MSM	25	14	1	14	9	25.0	35.0	40.0	...	...
MSM	25	15	1	15	9	25.0	37.5	42.5	...	...
MSM	25	16	1	16	9	30.0	40.0	45.0	...	...
MSM	25	17	1	17	9	30.0	42.5	47.5	...	...
MSM	25	18	1	18	9	35.0	45.0	50.0	...	...
MSM	25	19	1	19	12	35.0	47.5	52.5	...	...
MSM	25	20	1	20	12	35.0	50.0	55.0	...	...
MSM	25	21	1	21	12	35.0	52.5	57.5	...	...
MSM	25	22	1	22	12	40.0	55.0	60.0	...	...
MSM	25	23	1	23	12	40.0	57.5	62.5	...	...
MSM	25	24	1	24	12	40.0	60.0	65.0	...	...
MSM	25	25	1	25	12	45.0	62.5	67.5	...	...
MSM	25	30	1	30	12	50.0	75.0	80.0	...	...
MSM	25	35	1	35	12	60.0	87.5	92.5	...	...
MSM	25	38	1	38	12	60.0	95.0	100.0	...	...
MSM	25	40	1	40	12	70.0	100.0	105.0	...	...
MSM	25	45	1	45	15	70.0	112.5	117.5	...	...
MSM	25	48	1	48	15	80.0	120.0	125.0	...	...
MSM	25	50	1	50	15	80.0	125.0	130.0	...	...
MSM	25	57	1	57	15	90.0	142.5	147.0	...	...
MSM	25	60	1	60	15	90.0	150.0	155.0	...	...
MSM	25	76	2	76	20	...	190.0	195.0	...	...
MSM	25	80	2	80	25	...	200.0	205.0	...	...
MSM	25	95	2	95	25	...	237.5	242.5	...	...

製程說明：

精度等級：(JIS四級) 8e25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：精銑

硬度處理：无

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 4)8e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

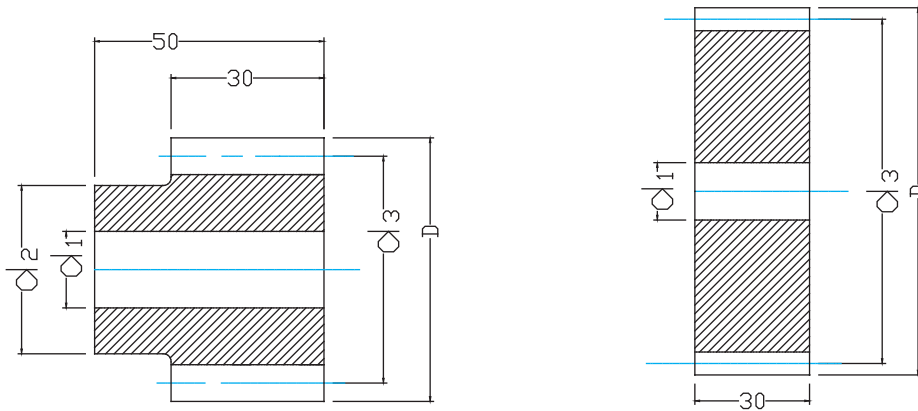
Treatment of Teeth: Milled

Hardness: No Heat treatment .

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數3										
MSM 30 12	1	12	14	25	36	42	...	...	...	...
MSM 30 13	1	13	14	25	39	45	...	...	...	...
MSM 30 14	1	14	14	25	42	48	...	...	...	...
MSM 30 15	1	15	14	35	45	51	...	...	...	...
MSM 30 16	1	16	14	35	48	54	...	...	...	...
MSM 30 17	1	17	14	42	51	57	...	...	...	...
MSM 30 18	1	18	14	45	54	60	...	...	...	...
MSM 30 19	1	19	14	45	57	63	...	...	...	...
MSM 30 20	1	20	14	45	60	66	...	...	...	...
MSM 30 21	1	21	14	45	63	69	...	...	...	...
MSM 30 22	1	22	14	50	66	72	...	...	...	...
MSM 30 23	1	23	14	50	69	75	...	...	...	...
MSM 30 24	1	24	14	50	72	78	...	...	...	...
MSM 30 25	1	25	14	60	75	81	...	...	...	...
MSM 30 27	1	27	14	60	81	87	...	...	...	...
MSM 30 28	1	28	14	60	84	90	...	...	...	...
MSM 30 30	1	30	14	60	90	96	...	...	...	...
MSM 30 32	1	32	14	60	96	102	...	...	...	...
MSM 30 35	1	35	14	80	105	111	...	...	...	...
MSM 30 36	1	36	14	80	108	114	...	...	...	...
MSM 30 38	1	38	14	80	114	120	...	...	...	...
MSM 30 40	1	40	14	80	120	126	...	...	...	...
MSM 30 45	2	45	20	...	135	141	...	...	...	...
MSM 30 48	1	48	20	...	144	150	...	...	...	...
MSM 30 50	2	50	25	...	150	156	...	...	...	...
MSM 30 52	2	52	25	...	156	162	...	...	...	...
MSM 30 56	2	56	25	...	168	174	...	...	...	...
MSM 30 60	2	60	25	...	180	186	...	...	...	...
MSM 30 76	2	76	25	...	228	234	...	...	...	...
MSM 30 80	2	80	25	...	240	246	...	...	...	...
MSM 30 95	2	95	25	...	285	291	...	...	...	...

製程說明：

精度等級：(JIS四級) 8e25

材料：(SCM440 鎢鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：精銑

硬度處理：无

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 4)8e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

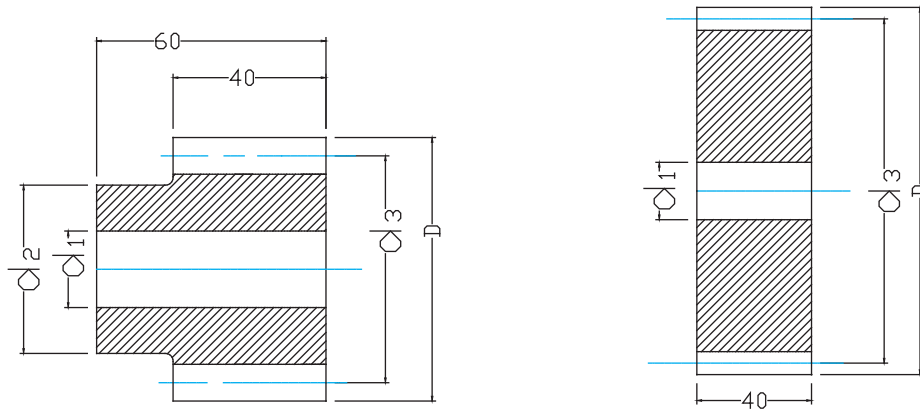
Treatment of Teeth: Milled

Hardness: No Heat treatment .

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h	
模数4											
MSM	40	12	1	12	16	35	48	56	...	...	...
MSM	40	13	1	13	16	35	52	60	...	...	...
MSM	40	14	1	14	16	45	56	64	...	...	...
MSM	40	15	1	15	16	45	60	68	...	...	...
MSM	40	16	1	16	16	45	64	72	...	...	...
MSM	40	17	1	17	16	50	68	76	...	...	...
MSM	40	18	1	18	16	50	72	80	...	...	...
MSM	40	19	1	19	16	60	76	84	...	...	...
MSM	40	20	1	20	16	60	80	88	...	...	...
MSM	40	21	1	21	16	70	84	92	...	...	...
MSM	40	22	1	22	16	70	88	96	...	...	...
MSM	40	23	1	23	16	75	92	100	...	...	...
MSM	40	24	1	24	16	75	96	104	...	...	...
MSM	40	25	1	25	16	75	100	108	...	...	...
MSM	40	30	1	30	16	75	120	128	...	...	...
MSM	40	38	1	38	25	...	152	160	...	...	...
MSM	40	40	1	40	25	...	160	168	...	...	...
MSM	40	45	1	45	25	...	180	188	...	...	...
MSM	40	48	1	48	25	...	192	200	...	...	...
MSM	40	50	1	50	25	...	200	208	...	...	...
MSM	40	52	1	52	25	...	208	216	...	...	...
MSM	40	56	1	56	25	...	224	232	...	...	...
MSM	40	60	2	60	25	...	240	248	...	...	...
MSM	40	76	1	76	25	...	304	312	...	...	...
MSM	40	80	2	80	25	...	320	328	...	...	...
MSM	40	95	2	95	25	...	380	388	...	...	...

製程說明：

精度等級：(JIS四級) 8e25

材料：(SCM440 鎢鉻合金鋼) 42CrM04

齒型：直齒

齒面處理：精銑

硬度處理：无

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 4)8e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

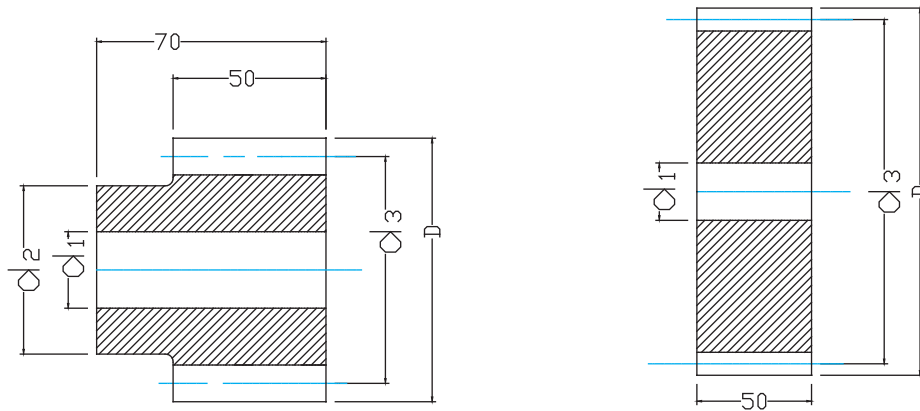
Treatment of Teeth: Milled

Hardness: No Heat treatment .

Pressure Angle: 20 degree.

*不同尺寸與材質可以依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數5										
MSM	50	12	1	12	20	45	60	70	...	...
MSM	50	13	1	13	20	45	65	75	...	...
MSM	50	14	1	14	20	55	70	80	...	...
MSM	50	15	1	15	20	60	75	85	...	...
MSM	50	16	1	16	20	60	80	90	...	...
MSM	50	17	1	17	20	70	85	95	...	...
MSM	50	18	1	18	20	70	90	100	...	...
MSM	50	19	1	19	20	70	95	105	...	...
MSM	50	20	1	20	20	70	100	110	...	...
MSM	50	21	1	21	20	70	105	115	...	...
MSM	50	22	1	22	20	80	110	120	...	...
MSM	50	23	1	23	20	80	115	125	...	...
MSM	50	24	1	24	20	80	120	130	...	...
MSM	50	25	1	25	20	80	125	135	...	...
MSM	50	30	1	30	20	90	150	160	...	...
MSM	50	36	2	36	30	...	180	190	...	...
MSM	50	38	2	38	30	...	190	200	...	...
MSM	50	40	2	40	30	...	200	210	...	...
MSM	50	45	2	45	30	...	225	235	...	...
MSM	50	48	2	48	30	...	240	250	...	...
MSM	50	50	2	50	30	...	250	260	...	...
MSM	50	52	2	52	30	...	260	270	...	...
MSM	50	56	2	56	30	...	280	290	...	...
MSM	50	60	2	60	30	...	300	310	...	...
MSM	50	76	2	76	30	...	380	390	...	...
MSM	50	80	2	80	30	...	400	410	...	...
MSM	50	95	2	95	30	...	475	485	...	...

製程說明：

精度等級：(JIS四級) 8e25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：精銑

硬度處理：无

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 4)8e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

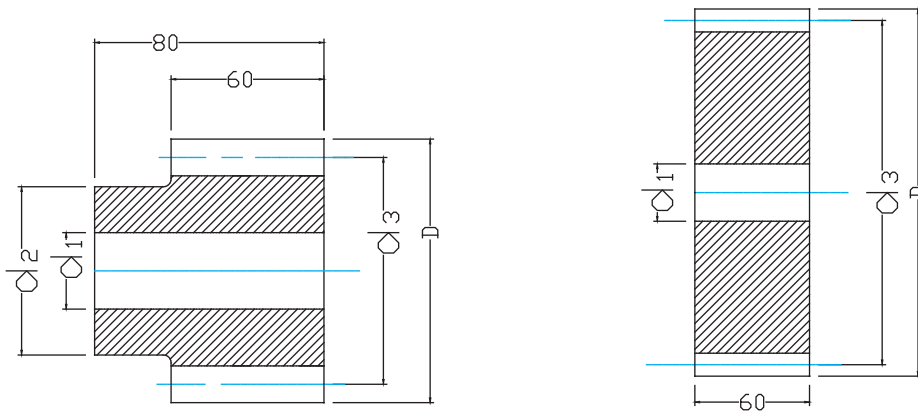
Treatment of Teeth: Milled

Hardness: No Heat treatment .

Pressure Angle: 20 degree.

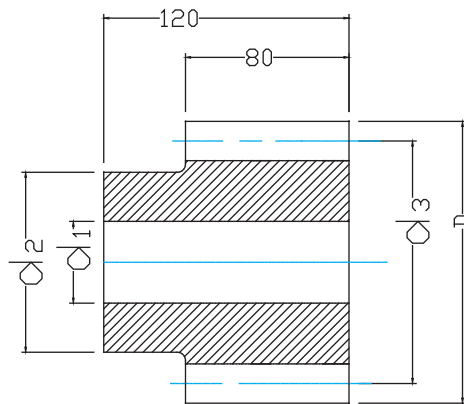
*不同尺寸與材質可以依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數6										
MSM	60	15	1	15	20	90	102	...	...	...
MSM	60	19	1	19	20	114	126	...	...	...
MSM	60	21	1	21	20	126	138	...	...	...
MSM	60	25	1	25	20	150	162	...	...	...
MSM	60	30	2	30	30	180	192	...	...	...
MSM	60	36	2	36	30	216	228	...	...	...
MSM	60	38	2	38	30	228	240	...	...	...
MSM	60	40	2	40	30	240	252	...	...	...



單位/Dimension: mm

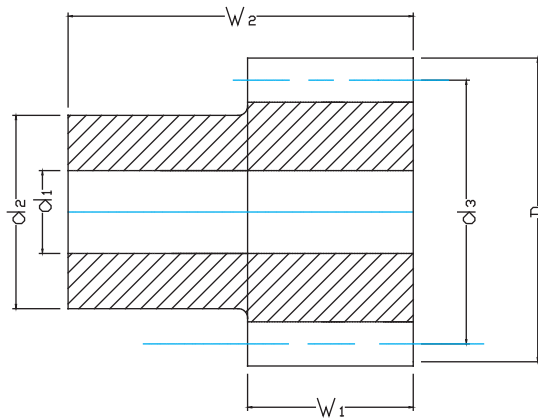
型號 Code	圖	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數8										
MSM	80	15	15	40	90	120	136	...	...	...
MSM	80	20	20	40	120	160	176	...	...	...
MSM	80	25	25	40	150	200	216	...	...	...

製程說明：
 精度等級：(JIS四級) 8e25
 材料：(SCM440 鉻鉬合金鋼) 42CrM04
 齒型：直齒
 齒面處理：精銑
 硬度處理：无
 壓力角：20度

Manufacturing Description:
 Precision Grade: (JIS Grade 4) 8e25
 Material: (SCM440 Chromium Molybdenum Alloy Steel) 42CrM04
 Type: Straight Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment.
 Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code			齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模数2											
MHM	20	20	20	9	30	42.44	46.4	28	35	...	...
MHM	20	25	25	12	35	53.05	57.1	28	35	...	...
MHM	20	30	30	12	40	63.66	67.7	28	35	...	...
模数3											
MHM	30	20	20	14	45	63.66	69.7	30	50	...	...
MHM	30	25	25	14	60	79.58	85.6	30	50	...	...
模数4											
MHM	40	15	15	16	50	63.66	71.7	40	60	...	...
MHM	40	20	20	16	60	84.88	92.9	40	60	...	...
MHM	40	25	25	16	75	106.10	114.1	40	60	...	...
模数5											
MHM	50	20	20	20	70	106.10	116.1	50	70	...	...
MHM	50	25	25	20	80	132.60	142.6	50	70	...	...
模数6											
MHM	60	20	20	20	90	127.30	139.3	60	80	...	...
MHM	60	25	25	20	110	159.20	171.2	60	80	...	...
模数8											
MHM	80	20	20	40	120	166.08	182.0	80	120	...	...

製程說明：

精度等級：(JIS四級) 8e25

材料：(SCM440 鎳鉻合金鋼) 42CrM04

齒型：斜齒

齒面處理：精銑

硬度處理：无

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 4)8e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Helical Rack

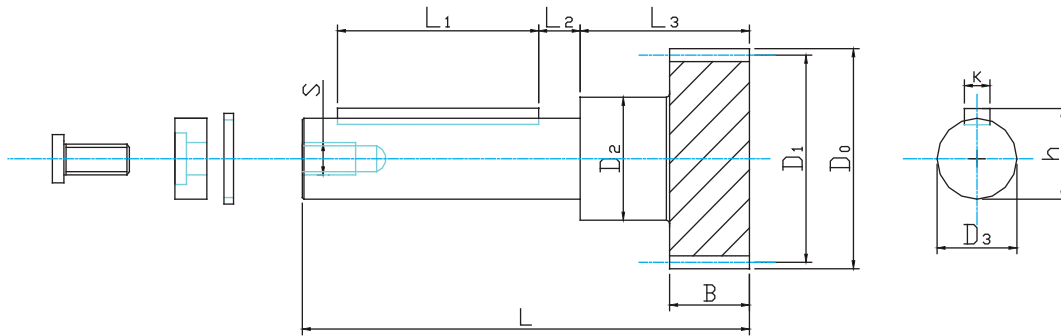
Treatment of Teeth: Milled

Hardness: No Heat treatment.

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	中心 距	模數 Modulus	齒數 Tooth No.	X	D ₀	D ₁	D ₂	D ₃	B	L	L ₁	L ₂	L ₃	k	h	S
CSGHL 20 32 1	50	2	32	-	68	64	38	25	25	140.0	63	13.0	53	8	28	M8
CSGHL 30 21 1	50	3	21	-	69	63	38	25	30	142.0	63	13	55	8	28	M8
CSGHL 20 32 2	63	2	32	-	68	64	42	28	25	164.5	80	14.5	57.5	8	31	M8
CSGHL 30 21 2	63	3	21	-	69	63	42	28	30	167.0	80	14.5	60	8	31	M8
CSGHL 40 17 1	63	4	17	-	76	68	42	28	40	172.0	80	14.5	65	8	31	M8
CSGHL 30 21 1	80	3	21	-	69	63	48	36	30	185.0	100	12.5	62	10	39	M12
CSGHL 40 17 2	80	4	17	-	76	68	48	36	40	190.0	100	12.5	67	10	39	M12
CSGHL 40 17 3	100	4	17	-	76	68	57	48	40	215.0	125	9.0	72	14	51.5	M12
CSGHL 40 30 1	100	4	30	-	128	120	57	48	40	215.0	125	9.0	72	14	51.5	M12
CSGHL 50 13 1	100	5	13	0.500	80	65	57	48	50	225.0	125	9.0	82	14	51.5	M12
CSGHL 50 15 1	125	5	15	0.500	90	75	68	60	50	272.0	150	10.0	90	18	64	M16
CSGHL 60 13 1	125	6	13	0.500	96	78	68	60	60	282.0	150	10.0	100	18	64	M16

製程說明：

精度等級：(JIS二級) 6e25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理；硬度為45~50°度

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 2) 6e25

Material: (S45C Medium Carbon Steel) C45

Type: Straight Rack

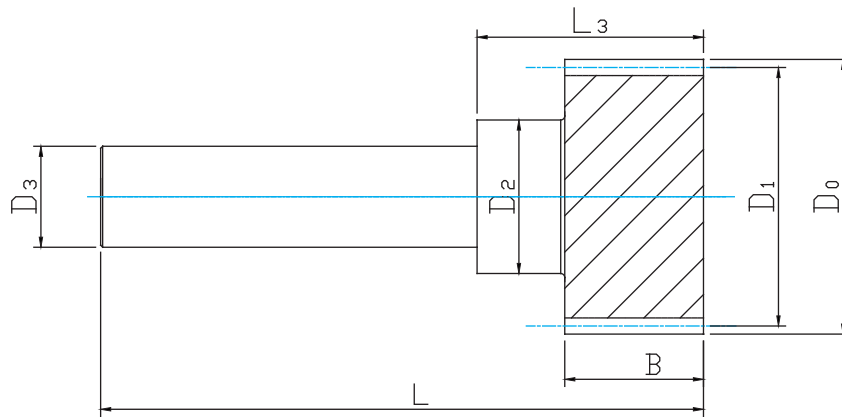
Treatment of Teeth: Ground

Hardness: Heat treatment ; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質可以依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code			中心距	模數 Modulus	齒數 Tooth No.	X	D ₀	D ₁	D ₂	D ₃	B	L	L ₃	
CSGHL	20	32	1	50	2	32	-	68	64	38	25	25	140.0	34
CSGHL	30	21	1	50	3	21	-	69	63	38	25	30	142.0	36.5
CSGHL	20	32	2	63	2	32	-	68	64	42	28	25	164.5	38.5
CSGHL	30	21	2	63	3	21	-	69	63	42	28	30	167.0	41
CSGHL	40	17	1	63	4	17	-	76	68	42	28	40	172.0	46
CSGHL	30	21	3	80	3	21	-	69	63	48	36	30	185.0	37.5
CSGHL	40	17	2	80	4	17	-	76	68	48	36	40	190.0	42.5
CSGHL	40	17	3	100	4	17	-	76	68	57	48	40	215.0	43.5
CSGHL	40	30	1	100	4	30	-	128	120	57	48	40	215.0	43.5
CSGHL	50	13	1	100	5	13	0.500	80	65	57	48	50	225.0	53.5
CSGHL	50	15	1	125	5	15	0.500	90	75	68	60	50	255.0	55
CSGHL	60	13	1	125	6	13	0.500	96	78	68	60	60	265.0	65

製程說明：

精度等級：(JIS二級) 6e25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理;硬度為45~50°度

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 2) 6e25

Material: (S45C Medium Carbon Steel) C45

Type: Straight Rack

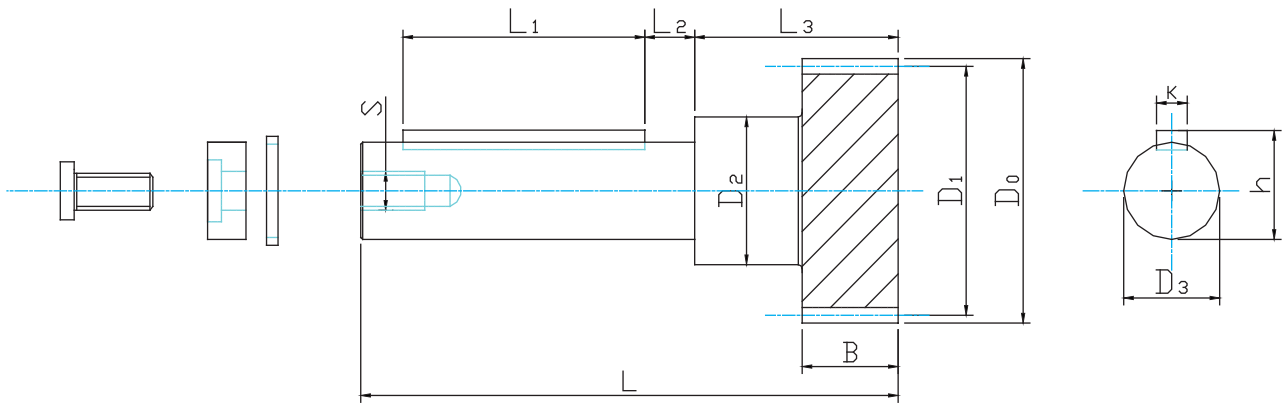
Treatment of Teeth: Ground

Hardness: Heat treatment ; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code			中心距	模數 Modulus	齒數 Tooth No.	X	D ₀	D ₁	D ₂	D ₃	B	L	L ₁	L ₂	L ₃	k	h	S	
CHGHL	20	32	1	50	2	30	-	67.7	63.66	38	25	25	140.0	63	13.0	53	8	28	M8
CHGHL	30	21	1	50	3	20	-	69.7	63.66	38	25	30	142.0	63	13	55	8	28	M8
CHGHL	20	32	2	63	2	30	-	67.7	63.66	42	28	25	164.5	80	14.5	57.5	8	31	M8
CHGHL	30	21	2	63	3	20	-	69.7	63.66	42	28	30	167.0	80	14.5	60	8	31	M8
CHGHL	40	17	1	63	4	15	-	71.7	63.66	42	28	40	172.0	80	14.5	65	8	31	M8
CHGHL	30	21	3	80	3	20	-	69.7	63.66	48	36	30	185.0	100	12.5	62	10	39	M12
CHGHL	40	17	2	80	4	15	-	71.7	63.66	48	36	40	190.0	100	12.5	67	10	39	M12
CHGHL	40	17	3	100	4	15	-	71.7	63.66	57	48	40	215.0	125	9.0	72	14	51.5	M12
CHGHL	40	30	1	100	4	30	-	135.3	127.32	57	48	40	215.0	125	9.0	72	14	51.5	M12
CHGHL	50	13	1	100	5	12	0.434	78.0	63.66	57	48	50	225.0	125	9.0	82	14	51.5	M12
CHGHL	50	15	1	125	5	15	0.500	94.5	79.58	68	60	50	272.0	150	10.0	90	18	64	M16
CHGHL	60	13	1	125	6	13	0.500	100.7	82.76	70	60	60	282.0	150	10.0	100	18	64	M16

製程說明：

精度等級：（JIS二級）6e25

材料：（S45C中碳鋼）C45

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理；硬度為45~50°度

左旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 2) 6e25

Material: (S45C Medium Carbon Steel) C45

Type: Helical Rack

Treatment of Teeth: Ground

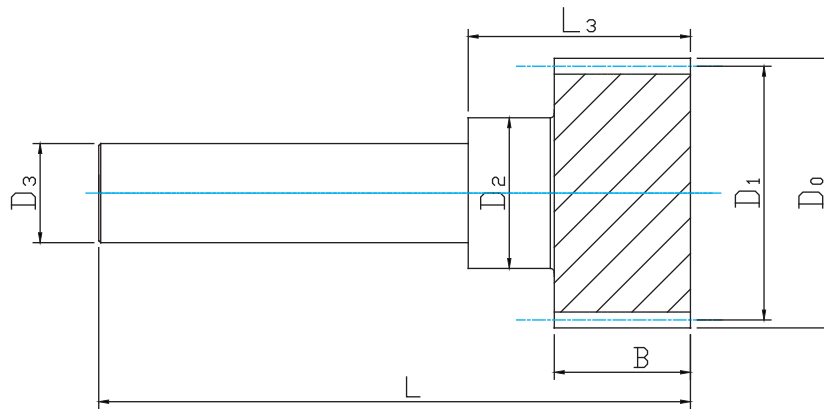
Hardness: Heat treatment; 45~50 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code				中心距	模數 Modulus	齒數 Tooth No.	X	D ₀	D ₁	D ₂	D ₃	B	L	L ₃
CHGHL	20	32	1	50	2	30	-	67.7	63.66	38	25	25	140.0	34
CHGHL	30	21	1	50	3	20	-	69.7	63.66	38	25	30	142.0	36.5
CHGHL	20	32	2	63	2	30	-	67.7	63.66	42	28	25	164.5	38.5
CHGHL	30	21	2	63	3	20	-	69.7	63.66	42	28	30	167.0	41
CHGHL	40	17	1	63	4	15	-	71.7	63.66	42	28	40	172.0	46
CHGHL	30	21	3	80	3	20	-	69.7	63.66	48	36	30	185.0	37.5
CHGHL	40	17	2	80	4	15	-	71.7	63.66	48	36	40	190.0	42.5
CHGHL	40	17	3	100	4	15	-	71.7	63.66	57	48	40	215.0	43.5
CHGHL	40	30	1	100	4	30	-	135.3	127.32	57	48	40	215.0	43.5
CHGHL	50	13	1	100	5	12	0.434	78.0	63.66	57	48	50	225.0	53.5
CHGHL	50	15	1	125	5	15	0.500	94.5	79.58	70	60	50	255.0	55
CHGHL	60	13	1	125	6	13	0.500	100.7	82.76	70	60	60	265.0	65

製程說明：

精度等級：(JIS二級) 6e25

材料：(S45C中碳鋼) C45

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理; 硬度為45~50°度

左旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 2)6e25

Material: (S45C Medium Carbon Steel)C45

Type: Helical Rack

Treatment of Teeth: Ground

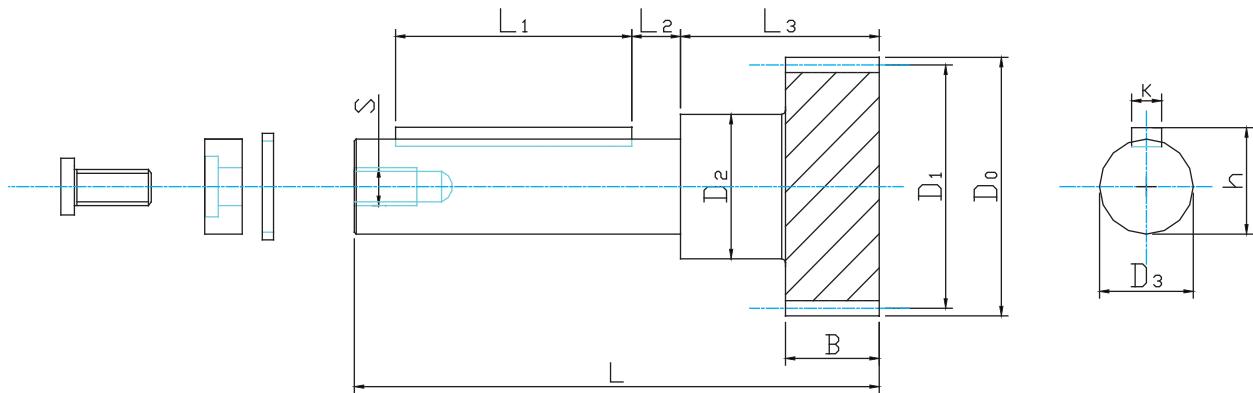
Hardness: Heat treatment ; 45~50 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	中心距	模數 Modulus	齒數 Tooth No.	X	D ₀	D ₁	D ₂	D ₃	B	L	L ₁	L ₂	L ₃	k	h	S
MSGHL 20 32 1	50	2	32	-	68	64	38	25	25	140.0	63	13.0	53	8	28	M8
MSGHL 30 21 1	50	3	21	-	69	63	38	25	30	142.0	63	13	55	8	28	M8
MSGHL 20 32 2	63	2	32	-	68	64	42	28	25	164.5	80	14.5	57.5	8	31	M8
MSGHL 30 21 2	63	3	21	-	69	63	42	28	30	167.0	80	14.5	60	8	31	M8
MSGHL 40 17 1	63	4	17	-	76	68	42	28	40	172.0	80	14.5	65	8	31	M8
MSGHL 30 21 3	80	3	21	-	69	63	48	36	30	185.0	100	12.5	62	10	39	M12
MSGHL 40 17 2	80	4	17	-	76	68	48	36	40	190.0	100	12.5	67	10	39	M12
MSGHL 40 17 3	100	4	17	-	76	68	57	48	40	215.0	125	9.0	72	14	51.5	M12
MSGHL 40 30 1	100	4	30	-	128	120	57	48	40	215.0	125	9.0	72	14	51.5	M12
MSGHL 50 13 1	100	5	13	0.500	80	65	57	48	50	225.0	125	9.0	82	14	51.5	M12
MSGHL 50 15 1	125	5	15	0.500	90	75	68	60	50	272.0	150	10.0	90	18	64	M16
MSGHL 60 13 1	125	6	13	0.500	96	78	68	60	60	282.0	150	10.0	100	18	64	M16

製程說明：

精度等級：(JIS二級) 6e25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：研磨

硬度處理：熱處理;硬度為45~50°度

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 2)6e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

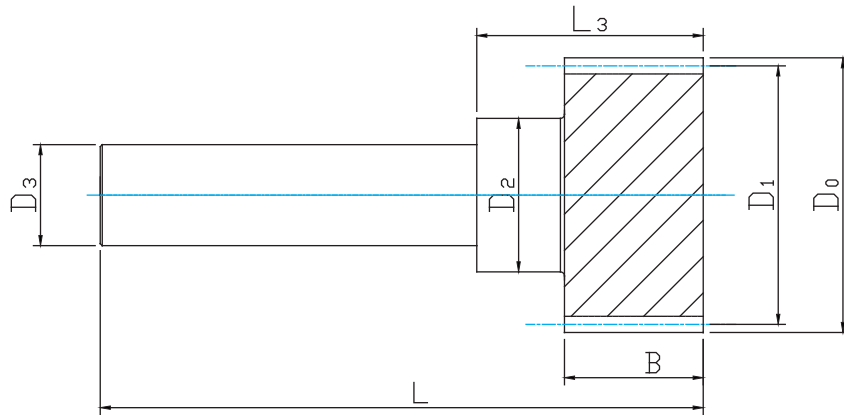
Treatment of Teeth: Ground

Hardness: Heat treatment; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code				中心距	模數 Modulus	齒數 Tooth No.	X	D ₀	D ₁	D ₂	D ₃	B	L	L ₃
MSGHL	20	32	1	50	2	32	-	68	64	38	25	25	140.0	34
MSGHL	30	21	1	50	3	21	-	69	63	38	25	30	142.0	36.5
MSGHL	20	32	2	63	2	32	-	68	64	42	28	25	164.5	38.5
MSGHL	30	21	2	63	3	21	-	69	63	42	28	30	167.0	41
MSGHL	40	17	1	63	4	17	-	76	68	42	28	40	172.0	46
MSGHL	30	21	3	80	3	21	-	69	63	48	36	30	185.0	37.5
MSGHL	40	17	2	80	4	17	-	76	68	48	36	40	190.0	42.5
MSGHL	40	17	3	100	4	17	-	76	68	57	48	40	215.0	43.5
MSGHL	40	30	1	100	4	30	-	128	120	57	48	40	215.0	43.5
MSGHL	50	13	1	100	5	13	0.500	80	65	57	48	50	225.0	53.5
MSGHL	50	15	1	125	5	15	0.500	90	75	68	60	50	255.0	55
MSGHL	60	13	1	125	6	13	0.500	96	78	68	60	60	265.0	65

製程說明：

精度等級：(JIS 二級) 6e25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：直齒

齒面處理：研磨

硬度處理：熱處理; 硬度為45~50°度

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 2)6e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Straight Rack

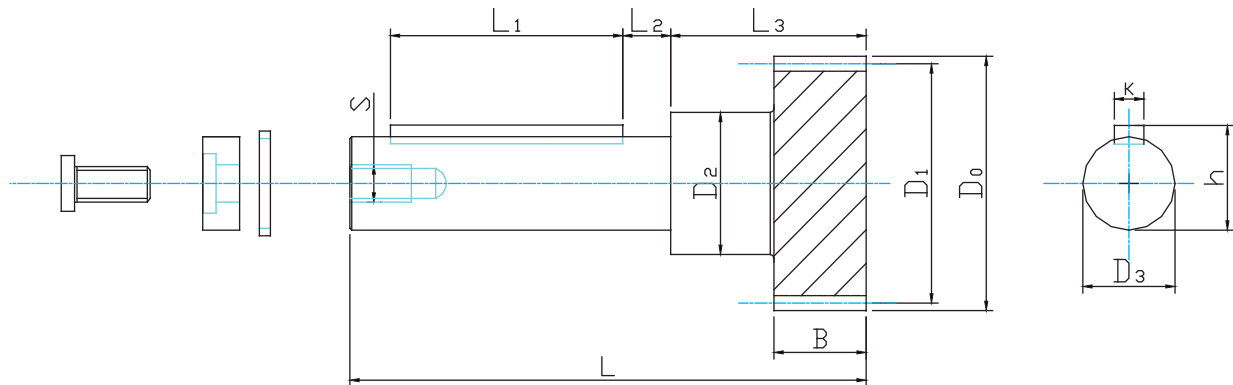
Treatment of Teeth: Ground

Hardness: Heat treatment; 45~50 degree.

Pressure Angle: 20 degree.

*不同尺寸與材質以可依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code				中心距	模數 Modulus	齒數 Tooth No.	X	D ₀	D ₁	D ₂	D ₃	B	L	L ₁	L ₂	L ₃	k	h	S
MHGHL	20	32	1	50	2	30	-	67.7	63.66	38	25	25	140.0	63	13.0	53	8	28	M8
MHGHL	30	21	1	50	3	20	-	69.7	63.66	38	25	30	142.0	63	13	55	8	28	M8
MHGHL	20	32	2	63	2	30	-	67.7	63.66	42	28	25	164.5	80	14.5	57.5	8	31	M8
MHGHL	30	21	2	63	3	20	-	69.7	63.66	42	28	30	167.0	80	14.5	60	8	31	M8
MHGHL	40	17	1	63	4	15	-	71.7	63.66	42	28	40	172.0	80	14.5	65	8	31	M8
MHGHL	30	21	3	80	3	20	-	69.7	63.66	48	36	30	185.0	100	12.5	62	10	39	M12
MHGHL	40	17	2	80	4	15	-	71.7	63.66	48	36	40	190.0	100	12.5	67	10	39	M12
MHGHL	40	17	3	100	4	15	-	71.7	63.66	57	48	40	215.0	125	9.0	72	14	51.5	M12
MHGHL	40	30	1	100	4	30	-	135.3	127.32	57	48	40	215.0	125	9.0	72	14	51.5	M12
MHGHL	50	13	1	100	5	12	0.434	78.0	63.66	57	48	50	225.0	125	9.0	82	14	51.5	M12
MHGHL	50	15	1	125	5	15	0.500	94.5	79.58	68	60	50	272.0	150	10.0	90	18	64	M16
MHGHL	60	13	1	125	6	13	0.500	100.7	82.76	70	60	60	282.0	150	10.0	100	18	64	M16

製程說明：

精度等級：(JIS 二級) 6e25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理; 硬度為45~50°度

左旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 2) 6e25

Material: (SCM440 Chromium Molybdenum Alloy Steel) 42CrM04

Type: Helical Rack

Treatment of Teeth: Ground

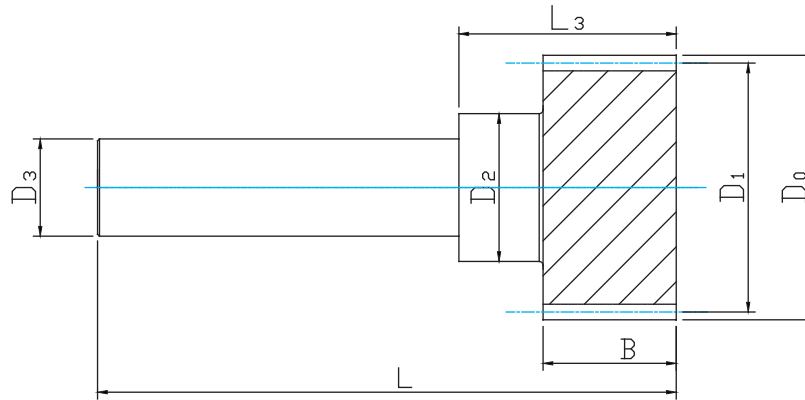
Hardness: Heat treatment; 45~50 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*不同尺寸與材質可依圖面客製。

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code			中心距	模數 Modulus	齒數 Tooth No.	X	D ₀	D ₁	D ₂	D ₃	B	L	L ₃	
MHGHL	20	32	1	50	2	30	-	67.7	63.66	38	25	25	140.0	34
MHGHL	30	21	1	50	3	20	-	69.7	63.66	38	25	30	142.0	36.5
MHGHL	20	32	2	63	2	30	-	67.7	63.66	42	28	25	164.5	38.5
MHGHL	30	21	2	63	3	20	-	69.7	63.66	42	28	30	167.0	41
MHGHL	40	17	1	63	4	15	-	71.7	63.66	42	28	40	172.0	46
MHGHL	30	21	3	80	3	20	-	69.7	63.66	48	36	30	185.0	37.5
MHGHL	40	17	2	80	4	15	-	71.7	63.66	48	36	40	190.0	42.5
MHGHL	40	17	3	100	4	15	-	71.7	63.66	57	48	40	215.0	43.5
MHGHL	40	30	1	100	4	30	-	135.3	127.32	57	48	40	215.0	43.5
MHGHL	50	13	1	100	5	12	0.434	78.0	63.66	57	48	50	225.0	53.5
MHGHL	50	15	1	125	5	15	0.500	94.5	79.58	70	60	50	255.0	55
MHGHL	60	13	1	125	6	13	0.500	100.7	82.76	70	60	60	265.0	65

製程說明：

精度等級：(JIS 二級) 6e25

材料：(SCM440 鉻鉬合金鋼) 42CrM04

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理; 硬度為45~50°度

左旋角：19°31'42"

壓力角：20度

Manufacturing Description:

Precision Grade: (JIS Grade 2)6e25

Material: (SCM440 Chromium Molybdenum Alloy Steel)42CrM04

Type: Helical Rack

Treatment of Teeth: Ground

Hardness: Heat treatment ; 45~50 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

*不同尺寸與材質可以依照圖面客製化。

*Other Dimensions/Materials could be customized by drawings.



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