



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	改名為原億昌機械股份有限公司
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。 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
2011年	遷入新廠、新增四台CNC齒條研磨機
2012年	研發製造消除減速機
2013年	擴廠蓋新廠房、增設歐洲CNC齒條研磨機，現有12台CNC齒條切削機床

全面性技術：

●	傳動設備產品線齊全：包含消除減速機、齒條、齒輪。
●	規格完整：模數M0.5~M12
●	產品精密：DIN 5~10
●	服務多元：可依照客戶圖面生產



生產設備

Production Facilities

●	龍門銑床機台
●	自動化電腦切齒機
●	齒面成形研磨機
●	刀具研磨機
●	自動壓直機
●	硬度測試機
●	三次元檢驗機台



產品用途

Applications

●	適用於各式CNC工作母機： 精密切割機、車床、銑床、鑽床、磨床、自動化機械系統(機器手臂)、自動化倉儲系統等。
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Introduction

Company Profile

HISTORY :

1980	Established Yi Chang Machinery specialized in rack manufacturing with traditional milling machines.
1983	Applied to Stepper Motors.
1989	Moved to new factory.
1992	Renamed “Yuan Yi Chang Machinery Co., Ltd.”
1993	Traditional machines were replaced of CNC gear cutting machines. Production system is computerized. 6 CNC machines and NC automatic rack straightening machine built up.
2009	Certified by International Standard Organization ISO9001. Built up one set of CNC Tooth Grinding Machine.
2011	Moved to new factory; built up 4 new sets of tooth grinding machines.
2012	Developed and manufactured Anti-Backlash Gear Reducer.
2013	Expanded land and a European CNC teeth grinding machine. Currently, 12 sets of tooth cutting machines.

Diversity Technology:

●	Full ranges of transmission equipment products: Anti-Backlash Gear Reducers, Racks, Gears.
●	Complete Specifications: Module M0.5~M12
●	High end and Wide Precision: DIN 5~10
●	Diversity Services: Customized production procedure



Equipments

Production Facilities

●	Gantry Milling Machines
●	Automatic Computerized Tooth Cutting Machines.
●	Tooth Milling Machines.
●	Cutter Milling Machines.
●	Automatic Straightening Machines.
●	Hardness Tester Machine
●	Cubic Measuring Machines.



Purpose

Applications

●	Suitable for all kinds of CNC machining centers: Cutting Machines, Turning Machines (Lathes), Milling Machines, Drilling Machines, Grinding Machines, Automatic Robotics System, and Automatic Warehouse Storage System.
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齒條型號說明 Code Instruction

材料 Material	齒型 Rack Type	棒形 Shape	齒面處理 Treatment of Tooth	硬度處理 Hardness	四面研磨 Sides Ground	模數 Module	長度 Length	鑽孔 Holes
C ↓	S ↓	I ↓	G ↓	H/Q ↓	-G ↓	20 ↓	05 ↓	N ↓
C=S45C	S=直齒 Straight	 T=四角棒 Tetragon	G=磨削 Ground	H=硬化處理 Hardened	G=四面研磨 Sides Ground	M2	05=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			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
C ↓	S ↓	G ↓	H ↓	L ↓	20 ↓	16 ↓
C=S45C	S=直齒 Straight	 G=研磨 Ground	熱處理 Heat treatment	L=帶軸齒輪 with shaft	M2	16
M=SCM440 (此種材質皆調質)	H=斜齒 Helical	 M=精銑 Milled	無熱處理 Without treatment	無 Without		

常用材質 Material

ALSL-SAE	JIS 新 New	CNS	DIN
1020	S20C	S20C1	C22
1045	S45C	S45C	C45
4118	SCM415	S15CrMo	16MnCr5
4320	SNCM420	S20NiCr	
8620	SCM220	S20NiCr	21NiCrMo2
4130	SCM430	S30CrMo	30iCrMo4
4140	SCM440	S40CrMo	42CrMo4
4340	SNCM439	S40NiCrMo2	40NiCrMo6

● 鑄鐵、銅合金、鋁合金、不鏽鋼、其他……

Iron Adze, Copper Alloy, Aluminum Alloy, Stainless Steel, and others.

產品目錄 Product Catalog

	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 DIN	頁碼 Page
	CSTGH	S45C	直齒 Straight	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10, 12	磨削 Ground	熱處理 With H	6h25	1
	CSTM	S45C	直齒 Straight	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10	精銑 Milled	無 Without	8e27	2
	CSTMQ	S45C	直齒 Straight	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10	精銑 Milled	調質 With Q	8e27	3
	CSTMH	S45C	直齒 Straight	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10	精銑 Milled	熱處理 With H	10e27	4
	CHTGH	S45C	斜齒 Helical	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10, 12	磨削 Ground	熱處理 With H	6h25	5
	CHTM	S45C	斜齒 Helical	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10	磨削 Ground	無 Without	8e27	6
	CHTMQ	S45C	斜齒 Helical	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10	精銑 Milled	調質 With Q	8e27	7
	CHTMH	S45C	斜齒 Helical	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10	精銑 Milled	熱處理 With H	10e27	8
	CSRMQ	S45C	直齒 Straight	圓棒 Round	1,1.5,2,2.5,3,4,5	精銑 Milled	調質 With Q	8e27	9
	CSRMH	S45C	直齒 Straight	圓棒 Round	1,1.5,2,2.5,3,4,5	精銑 Milled	熱處理 With H	10e27	10
	MSTGH	SCM440	直齒 Straight	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10	磨削 Ground	熱處理 With H	6h25	11
	MSTMQ	SCM440	直齒 Straight	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10	精銑 Milled	調質 With Q	8e27	12
	MSTMH	SCM440	直齒 Straight	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10	精銑 Milled	熱處理 With H	10e27	13
	MHTGH	SCM440	斜齒 Helical	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10	磨削 Ground	熱處理 With H	6h25	14
	MHTMQ	SCM440	斜齒 Helical	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10	精銑 Milled	調質 With Q	8e27	15
	MHTMH	SCM440	斜齒 Helical	四角棒 Tetragon	1,1.5,2,3,4,5,6,8,10	精銑 Milled	熱處理 With H	10e27	16
	MSRMQ	SCM440	直齒 Straight	圓棒 Round	1,1.5,2,2.5,3,4,5	精銑 Milled	調質 With Q	8e27	17
	MSRMH	SCM440	直齒 Straight	圓棒 Round	1,1.5,2,2.5,3,4,5	精銑 Milled	熱處理 With H	10e27	18
	CSGH	S45C	直齒 Straight	2,3,4,5,6		研磨 Ground	熱處理 With H	7e25	19-23
	CHGH	S45C	斜齒 Helical	2,3,4,5,6,8		研磨 Ground	熱處理 With H	7e25	24-26
	CSM	S45C	直齒 Straight	1,1.5,2,2.5,3,4,5,6,8		精銑 Milled	無 Without	8e25	27-34
	CHM	S45C	斜齒 Helical	2,3,4,5,6,8		精銑 Milled	無 Without	8e25	35
	CSGHL	S45C	直齒 Straight	2,3,4,5,6		研磨 Ground	熱處理 With H	6e25	36-37
	CHGHL	S45C	斜齒 Helical	2,3,4,5,6		研磨 Ground	熱處理 With H	6e25	38-39

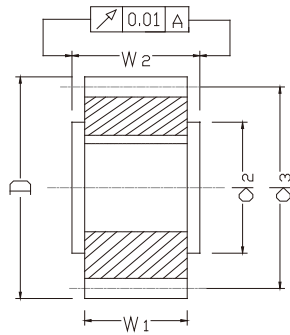


圖1/Fig. 1

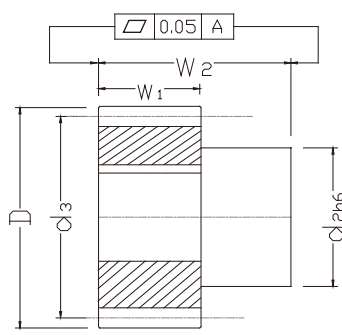


圖2/Fig. 2

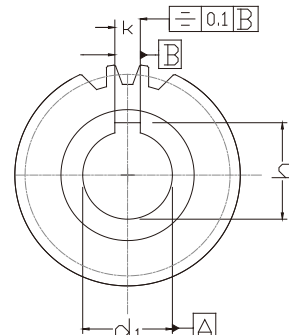


圖1+2鍵槽在齒隙中間
Fig 1+2, Keyway between tooth gap

單位/Dimension: mm

型號 Code				圖 Fig	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h
模数2 Module 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）DIN 7e25

材料：（S45C中碳鋼）C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理採用高週波後，硬度為43~45°

壓力角：20度

材質可用42CrM04，硬度為56~60度

*不同尺寸與材質可以依照圖面客製化。

Manufacturing Description:

Precision Grade: （JIS Grade 3）DIN 7e25

Material: (S45C Medium Carbon Steel)C45

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment by High Frequency; 43~45 degree.

Pressure Angle: 20 degree.

Material can be used 42CrM04, hardness is 56 to 60 degrees

*Other Dimensions/Materials could be customized by drawings.

此樣本中的所有產品型號及參數如有變更恕不另行通告，訂貨前請與本公司聯絡確認

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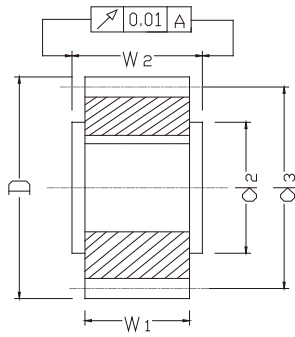


圖1/Fig. 1

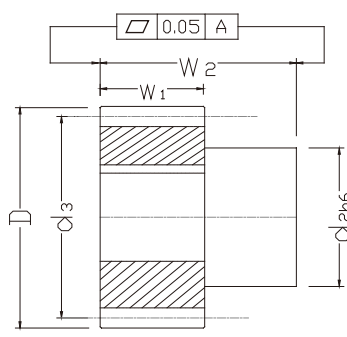


圖2/Fig. 2

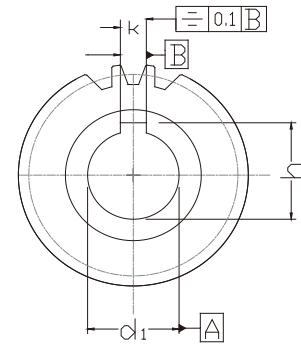


圖1+2鍵槽在齒隙中間

Fig 1+2, Keyway between tooth gap

單位/Dimension: mm

型號 Code				圖 Fig	齒數 Tooth No.	d1 _{H6}	d2	d3	D	w1	w2	k	h
模数2 Module 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
模数3 Module 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）DIN 7e25

材料：（S45C中碳鋼）C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理採用高週波後；硬度為43~45°

壓力角：20度

材質可用42CrM04，硬度為56~60度

*不同尺寸與材質可以依照圖面客製。

Manufacturing Description:

Precision Grade: (JIS Grade 3) DIN 7e25

Material: (S45C Medium Carbon Steel)C45

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment by High Frequency; 43~45 degree.

Pressure Angle: 20 degree.

Material can be used 42CrM04, hardness is 56 to 60 degrees

*Other Dimensions/Materials could be customized by drawings.

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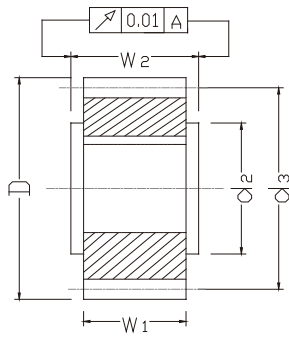


圖1/Fig. 1

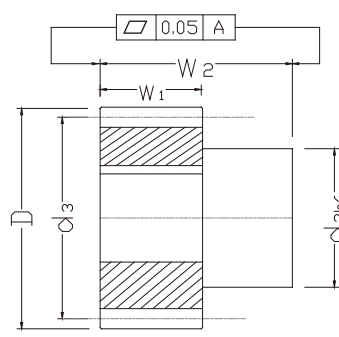


圖2/Fig. 2

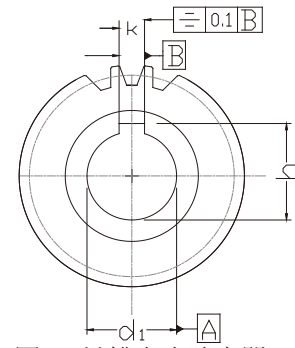


圖1+2鍵槽在齒隙中間

Fig 1+2, Keyway between tooth gap

單位/Dimension: mm

型號 Code				圖 Fig	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h
模数3 Module 3													
CSGH	030	22	1	2	22	35	55	66	72	28	65.0	10	38.3
CSGH	030	22	2	1	22	35	48	66	72	28	30.0	10	38.3
CSGH	030	25	1	1	25	25	36	75	81	28	30.0	8	28.3
CSGH	030	25	2	1	25	30	45	75	81	28	30.0	8	33.3
CSGH	030	25	3	1	25	35	48	75	81	28	30.0	10	38.3
CSGH	030	25	4	2	25	40	62	75	81	28	65.0	12	43.3
CSGH	030	25	5	1	25	45	58	75	81	28	30.0	14	48.8
CSGH	030	28	1	2	28	22	36	84	90	28	56.0	6	24.8
CSGH	030	28	2	2	28	25	44	84	90	28	60.0	8	28.3
CSGH	030	28	3	1	28	25	36	84	90	28	30.0	8	28.3
CSGH	030	28	4	2	28	30	50	84	90	28	60.0	8	33.3
CSGH	030	28	5	1	28	30	45	84	90	28	30.0	8	33.3
CSGH	030	28	6	2	28	32	55	84	90	28	65.0	10	35.3
CSGH	030	28	7	2	28	35	55	84	90	28	65.0	10	38.3
CSGH	030	28	8	1	28	35	48	84	90	28	30.0	10	38.3
CSGH	030	28	9	2	28	45	68	84	90	28	65.0	14	48.8
CSGH	030	28	10	1	28	45	58	84	90	28	30.0	14	48.8
CSGH	030	32	1	1	32	25	36	96	102	28	30.0	8	28.3
CSGH	030	32	2	1	32	30	45	96	102	28	30.0	8	33.3
CSGH	030	32	3	1	32	35	48	96	102	28	30.0	10	38.3
CSGH	030	32	4	3	32	40	62	96	102	28	65.0	12	43.3
CSGH	030	32	5	1	32	45	58	96	102	28	30.0	14	48.8
CSGH	030	36	1	1	36	35	48	108	114	28	30.0	10	38.3
CSGH	030	36	2	3	36	45	68	108	114	28	65.0	14	48.8
CSGH	030	36	3	1	36	45	58	108	114	28	30.0	14	48.8
CSGH	030	40	1	1	40	35	48	120	126	28	30.0	10	38.3
CSGH	030	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) DIN 7e25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理採用高週波後; 硬度為43~45°

壓力角：20度

材質可用42CrM04，硬度為56~60度

*不同尺寸與材質以可依照圖面客製化。

Manufacturing Description:

Precision Grade: (JIS Grade 3) DIN 7e25

Material: (S45C Medium Carbon Steel) C45

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment by High Frequency; 43~45degree.

Pressure Angle: 20 degree.

Material can be used 42CrM04, hardness is 56 to 60 degrees

*Other Dimensions/Materials could be customized by drawings.

此樣本中的所有產品型號及參數如有變更恕不另行通告, 訂貨前請與本公司聯絡確認

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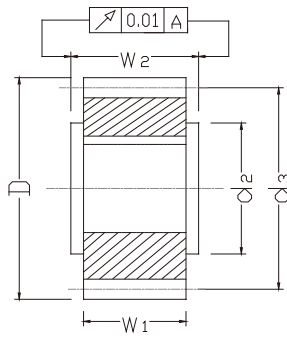


圖1/Fig. 1

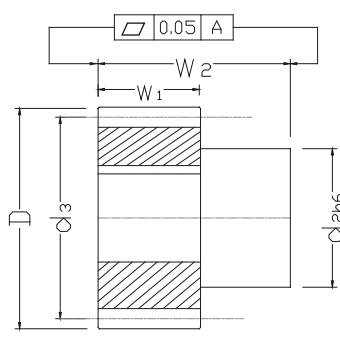


圖2/Fig. 2

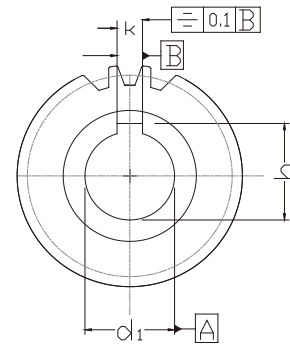


圖1+2鍵槽在齒隙中間
Fig 1+2, Keyway between tooth gap

單位/Dimension: mm

型號 Code					圖 Fig	齒數 Tooth No.	d1 _{H6}	d2	d3	D	w1	w2	k	h
模数4 Module 4														
CSGH	040	20	1	2	20	32	55	80	88	40	75.0	10	35.3	
CSGH	040	20	2	1	20	35	52	80	88	40	50.0	10	38.3	
CSGH	040	20	3	2	20	35	55	80	88	40	75.0	10	38.3	
CSGH	040	20	4	2	20	40	62	80	88	40	75.0	12	43.3	
CSGH	040	20	5	1	20	45	65	80	88	40	50.0	14	48.8	
CSGH	040	22	1	1	22	35	52	88	96	40	50.0	10	38.3	
CSGH	040	22	2	1	22	45	65	88	96	40	50.0	14	48.8	
CSGH	040	22	3	2	22	45	68	88	96	40	75.0	14	48.8	
CSGH	040	25	1	2	25	32	55	100	108	40	75.0	10	35.3	
CSGH	040	25	2	1	25	35	52	100	108	40	50.0	10	38.3	
CSGH	040	25	3	2	25	35	55	100	108	40	75.0	10	38.3	
CSGH	040	25	4	2	25	40	62	100	108	40	75.0	12	43.3	
CSGH	040	25	5	1	25	45	65	100	108	40	50.0	14	48.8	
CSGH	040	25	6	2	25	55	80	100	108	40	80.0	16	59.3	
CSGH	040	28	1	1	28	35	52	112	120	40	50.0	10	38.3	
CSGH	040	28	2	1	28	45	65	112	120	40	50.0	14	48.8	
CSGH	040	28	3	2	28	45	68	112	120	40	75.0	14	48.8	
CSGH	040	32	1	1	32	35	52	128	136	40	50.0	10	38.3	
CSGH	040	32	2	1	32	45	65	128	136	40	50.0	14	48.8	
CSGH	040	32	3	2	32	55	80	128	136	40	80.0	16	59.3	
CSGH	040	32	4	2	32	75	110	128	136	40	100.0	20	80.4	
CSGH	040	40	1	1	40	45	65	160	168	40	50.0	14	48.8	
CSGH	040	40	2	1	40	60	80	160	168	40	50.0	18	64.4	
CSGH	040	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）DIN 7e25

材料：（S45C中碳鋼）C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理採用高週波後；硬度為43~45°

壓力角：20度

材質可用42CrM04，硬度為56~60度

*不同尺寸與材質可以依照圖面客製化。

Manufacturing Description:

Precision Grade: （JIS Grade 3）DIN 7e25

Material: (S45C Medium Carbon Steel)C45

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment by High Frequency; 43~45 degree.

Pressure Angle: 20 degree.

Material can be used 42CrM04, hardness is 56 to 60 degrees

*Other Dimensions/Materials could be customized by drawings.

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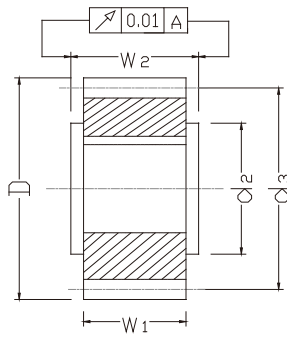


圖1/Fig. 1

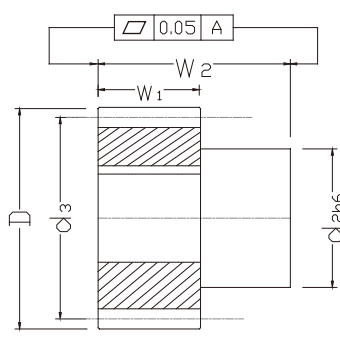


圖2/Fig. 2

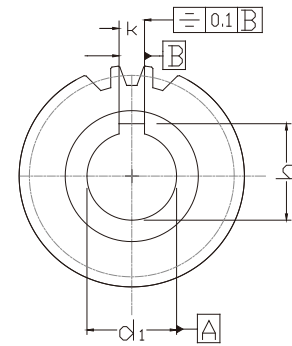


圖1+2鍵槽在齒隙中間
Fig 1+2, Keyway between tooth gap

單位/Dimension: mm

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

製程說明：

精度等級：（JIS三級）DIN 7e25

材料：（S45C中碳鋼）C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理採用高週波後; 硬度為43~45°

壓力角：20度

材質可用42CrM04，硬度為56~60度

*不同尺寸與材質可以依照圖面客製化。

Manufacturing Description:

Precision Grade: （JIS Grade 3）DIN 7e25

Material: (S45C Medium Carbon Steel)C45

Type: Straight Rack

Treatment of Teeth: Ground

Hardness: Heat treatment by High Frequency; 43~45 degree.

Pressure Angle: 20 degree.

Material can be used 42CrM04, hardness is 56 to 60 degrees

*Other Dimensions/Materials could be customized by drawings.

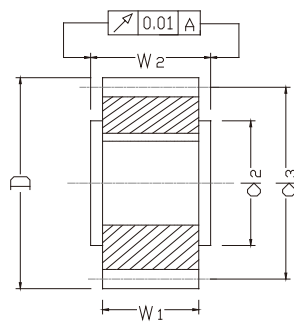


圖1/Fig. 1

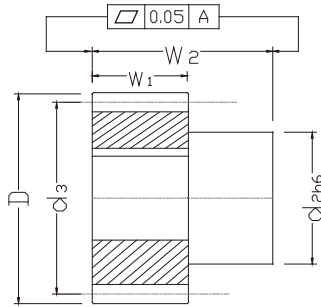


圖2/Fig. 2

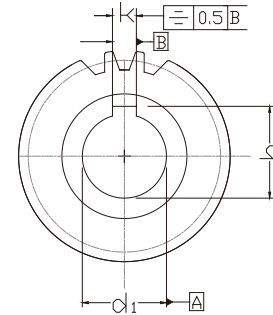


圖1+2鍵槽在齒隙中間
Fig 1+2, Keyway between tooth gap

單位/Dimension: mm

型號 Code				圖 Fig	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h
模数2 Module 2													
CHGH	20	20	1	1	20	20	30	42.44	46.4	28	30	6	22.8
CHGH	20	20	2	1	20	22	30	42.44	46.4	28	30	6	24.8
CHGH	20	21	1	1	21	16	25	44.56	48.6	28	30	5	18.3
CHGH	20	21	2	2	21	22	36	44.56	48.6	28	56	6	24.8
CHGH	20	25	1	1	25	20	30	53.05	57.1	28	30	6	22.8
CHGH	20	25	2	1	25	25	36	53.05	57.1	28	30	8	28.3
CHGH	20	28	1	1	28	35	48	59.42	63.4	28	30	10	38.3
CHGH	20	30	1	1	30	16	25	63.66	67.7	28	30	5	18.3
CHGH	20	30	2	1	30	20	30	63.66	67.7	28	30	6	22.8
CHGH	20	30	3	2	30	22	36	63.66	67.7	28	56	6	24.8
CHGH	20	30	4	1	30	25	36	63.66	67.7	28	30	8	28.3
CHGH	20	30	5	2	30	30	50	63.66	67.7	28	60	8	33.3
CHGH	20	30	6	2	30	32	55	63.66	67.7	28	65	10	35.3
CHGH	20	32	1	1	32	20	30	67.91	71.9	28	30	6	22.8
CHGH	20	32	2	1	32	25	36	67.91	71.9	28	30	8	28.3
CHGH	20	32	3	1	32	35	48	67.91	71.9	28	30	10	38.3
CHGH	20	36	1	1	36	35	48	76.39	80.4	28	30	10	38.3
CHGH	20	39	1	2	39	32	55	82.76	86.8	28	65	10	35.3
CHGH	20	40	1	1	40	35	48	84.88	88.9	28	30	10	38.3
模数3 Module 3													
CHGH	30	20	1	2	20	22	36	63.66	69.7	28	56	6	24.8
CHGH	30	20	2	2	20	25	44	63.66	69.7	28	60	8	28.3
CHGH	30	20	3	1	20	30	45	63.66	69.7	28	30	8	33.3
CHGH	30	20	4	2	20	30	50	63.66	69.7	28	60	8	33.3
CHGH	30	20	5	2	20	32	55	63.66	69.7	28	65	10	35.3
CHGH	30	20	6	1	20	35	48	63.66	69.7	28	30	10	38.3
CHGH	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) DIN 7e25

材料：(S45C中碳鋼) C45

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理採用高週波後;硬度為43~45°

左旋角：19°31'42"

壓力角：20度

材質可用42CrM04，硬度為56~60度

*不同尺寸與材質可依依照圖面客製化。

Manufacturing Description:

Precision Grade: (JIS Grade3) DIN 7e25

Material: (S45C Medium Carbon Steel)C45

Type: Helical Rack

Treatment of Teeth: Ground

Hardness: Heat treatment by High Frequency; 43~45 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

Material can be used 42CrM04, hardness is 56 to60 degrees

*Other Dimensions/Materials could be customized by drawings.

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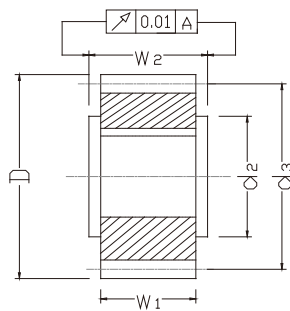


圖1/Fig. 1

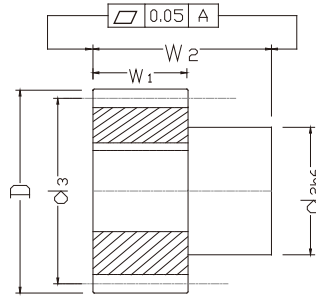


圖2/Fig. 2

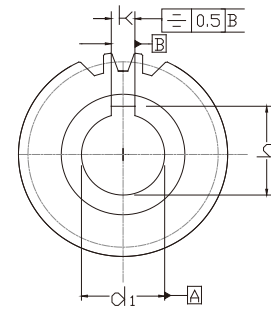


圖1+2鍵槽在齒隙中間

Fig 1+2, Keyway between tooth gap

單位/Dimension: mm

型號 Code				圖 Fig	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h
模数3 Module 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
模数4 Module 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）DIN 7e25

材料：（S45C中碳鋼）C45

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理採用高週波後;硬度為43~45°

左旋角：19°31'42"

壓力角：20度

材質可用42CrM04，硬度為56~60度

*不同尺寸與材質可以依照圖面客製化。

Manufacturing Description:

Precision Grade: （JIS Grade 3）DIN 7e25

Material: (S45C Medium Carbon Steel)C45

Type: Helical Rack

Treatment of Teeth: Ground

Hardness: Heat treatment by High Frequency; 43~45 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

Material can be used 42CrM04, hardness is 56 to 60 degrees

*Other Dimensions/Materials could be customized by drawings.

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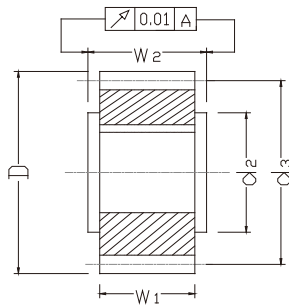


圖1/Fig. 1

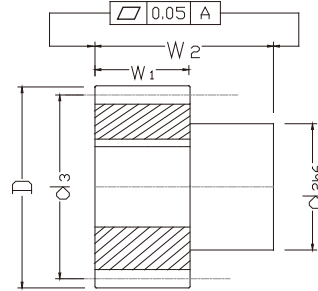


圖2/Fig. 2

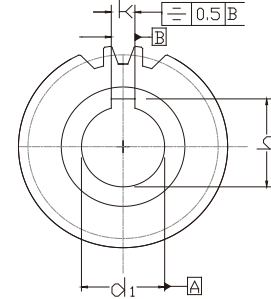


圖1+2鍵槽在齒隙中間

Fig 1+2, Keyway between tooth gap

單位/Dimension: mm

型號 Code				圖 Fig	齒數 Tooth No.	d1H6	d2	d3	D	w1	w2	k	h
模數5 Module 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
模數6 Module 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
模數8 Module 8													
CHGH	80	18	2		18	75	110	152.79	168.8	80	140	20	79.9

製程說明：

精度等級：（JIS三級）DIN 7e25

材料：（S45C中碳鋼）C45

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理採用高週波後;硬度為43~45°

左旋角：19°31'42"

壓力角：20度

材質可用42CrM04，硬度為56~60度

*不同尺寸與材質可依圖面客製化。

Manufacturing Description:

Precision Grade: （JIS Grade 3）DIN 7e25

Material: (S45C Medium Carbon Steel)C45

Type: Helical Rack

Treatment of Teeth: Ground

Hardness: Heat treatment by High Frequency; 43~45 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

Material can be used 42CrM04, hardness is 56 to 60 degrees

*Other Dimensions/Materials could be customized by drawings.

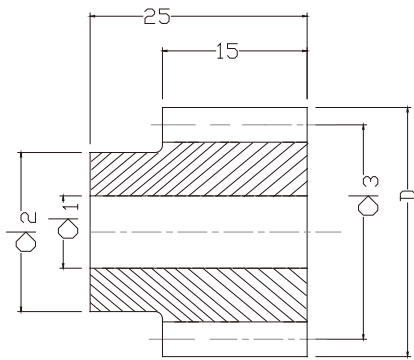


圖1/Fig. 1

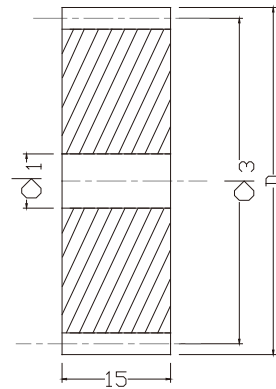


圖2/Fig. 2

型號 Code	圖 Fig	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數1 Module 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）DIN 8e25
 材料：（S45C中碳鋼）C45
 齒型：直齒
 齒面處理：精銑
 硬度處理：無
 壓力角：20度
 材質可用42CrM04

*不同尺寸與材質可以依照圖面客製化。

Manufacturing Description:
 Precision Grade: （JIS Grade 4）DIN 8e25
 Material: (S45C Medium Carbon Steel)C45
 Type: Straight Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment.
 Pressure Angle: 20 degree.
 Material can be used 42CrM04

*Other Dimensions/Materials could be customized by drawings.

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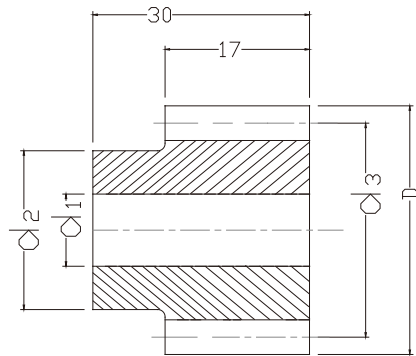


圖1/Fig. 1

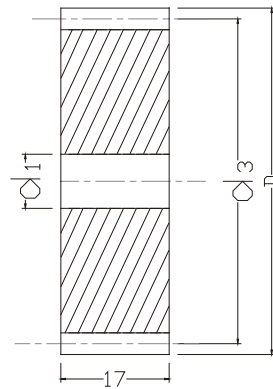


圖2/Fig. 2

單位/Dimension: mm

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

製程說明：

精度等級：（JIS 四級）DIN 8e25

材料：（S45C中碳鋼）C45

齒型：直齒

齒面處理：精銑

硬度處理：無

壓力角：20度

材質可用42CrM04

Manufacturing Description:

Precision Grade: （JIS Grade 4）DIN 8e25

Material: (S45C Medium Carbon Steel)C45

Type: Straight Rack

Treatment of Teeth: Milled

Hardness: No Heat treatment.

Pressure Angle: 20 degree.

Material can be used 42CrM04

*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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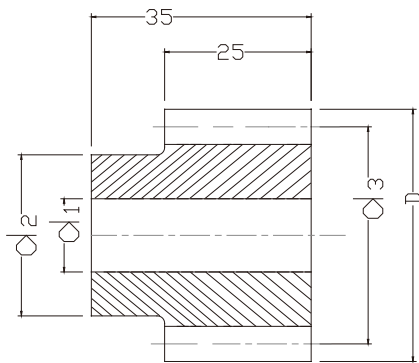


圖1/Fig. 1

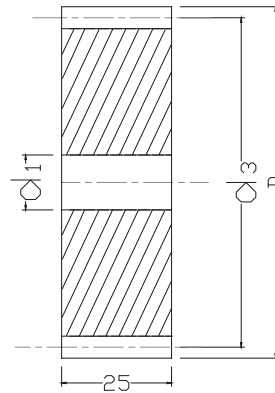


圖2/Fig. 2

單位/Dimension: mm

型號 Code	圖 Fig	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模数2 Module 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）DIN 8e25
 材料：（S45C中碳鋼）C45
 齒型：直齒
 齒面處理：精銑
 硬度處理：無
 壓力角：20度
 材質可用42CrM04

*不同尺寸與材質可以依照圖面客製化。

Manufacturing Description:
 Precision Grade: (JIS Grade 4) DIN 8e25
 Material: (S45C Medium Carbon Steel)C45
 Type: Straight Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment.
 Pressure Angle: 20 degree.
 Material can be used 42CrM04

*Other Dimensions/Materials could be customized by drawings.

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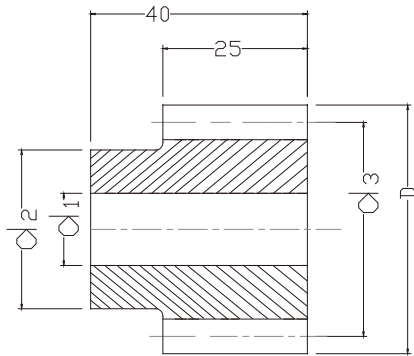


圖1/Fig. 1

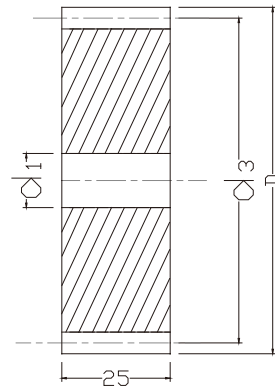


圖2/Fig. 2

單位/Dimension: mm

型號 Code	圖 Fig	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模数2.5 Module 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) DIN 8e25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：精銑

硬度處理：無

壓力角：20度

材質可用42CrM04

*不同尺寸與材質以可依照圖面客製化。

Manufacturing Description:

Precision Grade: (JIS Grade 4) DIN 8e25

Material: (S45C Medium Carbon Steel) C45

Type: Straight Rack

Treatment of Teeth: Milled

Hardness: No Heat treatment.

Pressure Angle: 20 degree.

Material can be used 42CrM04

*Other Dimensions/Materials could be customized by drawings.

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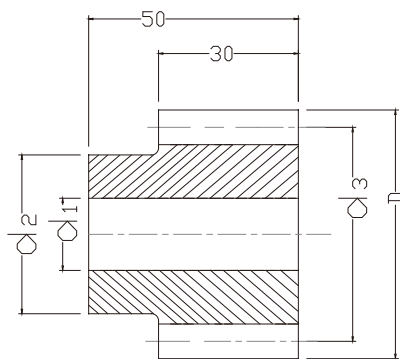


圖1/Fig. 1

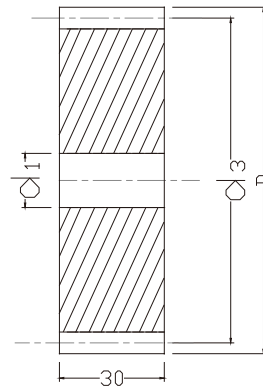


圖2/Fig. 2

單位/Dimension: mm

型號 Code	圖 Fig	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模数3 Module 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）DIN 8e25

材料：（S45C中碳鋼）C45

齒型：直齒

齒面處理：精銑

硬度處理：無

壓力角：20度

材質可用42CrM04

Manufacturing Description:

Precision Grade: （JIS Grade 4）DIN 8e25

Material: (S45C Medium Carbon Steel)C45

Type: Straight Rack

Treatment of Teeth: Milled

Hardness: No Heat treatment.

Pressure Angle: 20 degree.

Material can be used 42CrM04

*不同尺寸與材質可以依照圖面客製。

*Other Dimensions/Materials could be customized by drawings.

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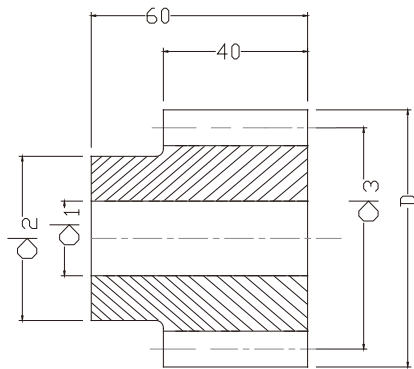


圖1/Fig. 1

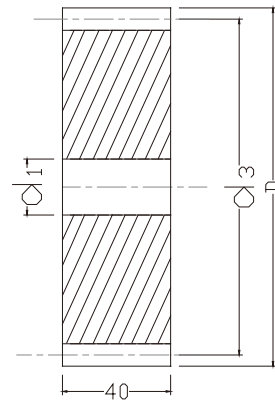


圖2/Fig. 2

單位/Dimension: mm

型號 Code	圖 Fig	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模数4 Module 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）DIN 8e25
 材料：（S45C中碳鋼）C45
 齒型：直齒
 齒面處理：精銑
 硬度處理：無
 壓力角：20度
 材質可用42CrM04

*不同尺寸與材質可以依照圖面客製化。

Manufacturing Description:
 Precision Grade: （JIS Grade 4）DIN 8e25
 Material: (S45C Medium Carbon Steel)C45
 Type: Straight Rack
 Treatment of Teeth: Milled
 Hardness:No Heat treatment.
 Pressure Angle: 20 degree.
 Material can be used 42CrM04

*Other Dimensions/Materials could be customized by drawings.

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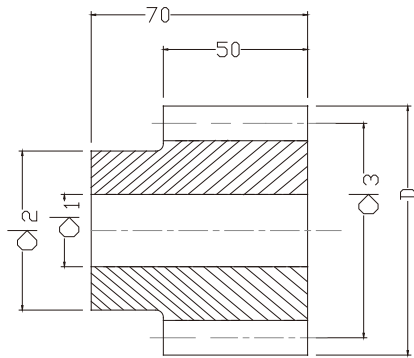


圖1/Fig. 1

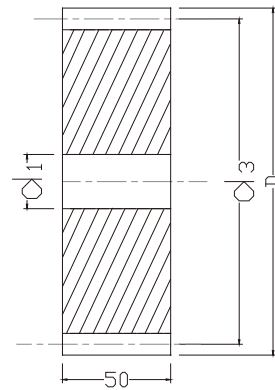


圖2/Fig. 2

單位/Dimension: mm

型號 Code	圖 Fig	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模數5 Module 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) DIN 8e25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：精銑

硬度處理：無

壓力角：20度

材質可用42CrM04

Manufacturing Description:

Precision Grade: (JIS Grade 4) DIN 8e25

Material: (S45C Medium Carbon Steel)C45

Type: Straight Rack

Treatment of Teeth: Milled

Hardness: No Heat treatment.

Pressure Angle: 20 degree.

Material can be used 42CrM04

*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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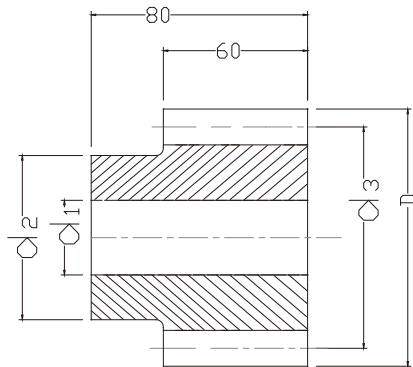


圖1/Fig. 1

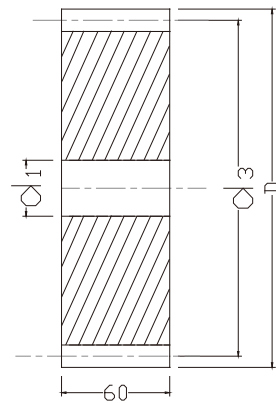
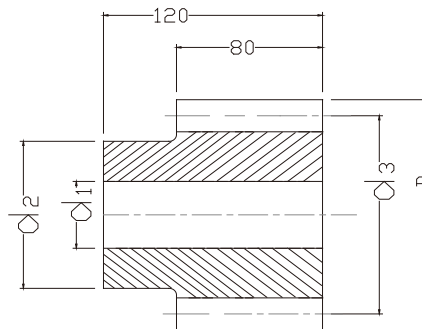


圖2/Fig. 2

單位/Dimension: mm

型號 Code	圖 Fig	齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模数6 Module 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	...	...	...



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

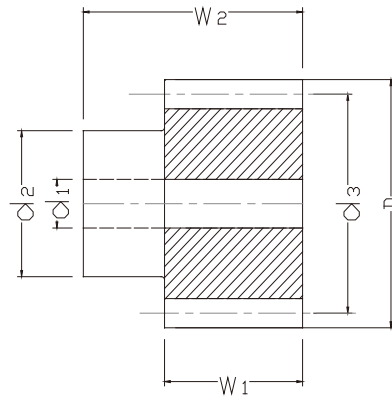
製程說明：
 精度等級：（JIS 四級）DIN 8e25
 材料：（S45C中碳鋼）C45
 齒型：直齒
 齒面處理：精銑
 硬度處理：無
 壓力角：20度
 材質可用42CrM04

Manufacturing Description:
 Precision Grade: (JIS Grade 4) DIN 8e25
 Material: (S45C Medium Carbon Steel)C45
 Type: Straight Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment.
 Pressure Angle: 20 degree.
 Material can be used 42CrM04

*不同尺寸與材質可依圖面客製化。

*Other Dimensions/Materials could be customized by drawings.

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單位/Dimension: mm

型號 Code		齒數 Tooth No.	d1	d2	d3	D	w1	w2	k	h
模数2 Module 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 Module 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 Module 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 Module 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 Module 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 Module 8										
CHM	80	20	20	40	120	166.08	182.0	80	120	...

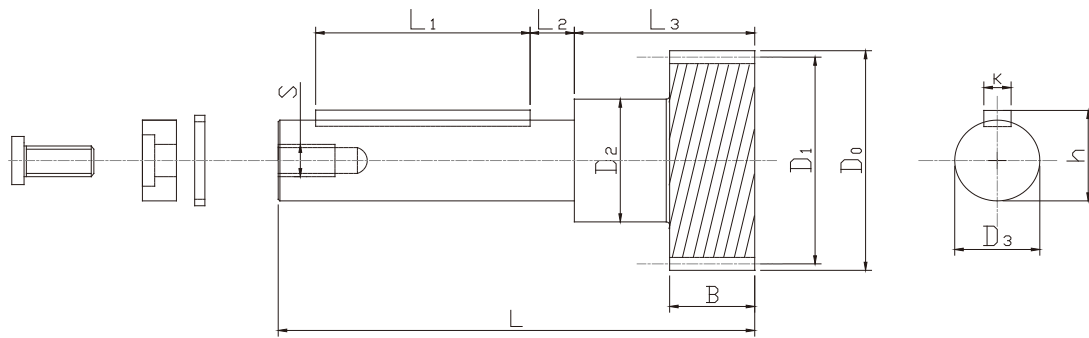
製程說明：
 精度等級：（JIS四級）DIN 8e25
 材料：（S45C中碳鋼）C45
 齒型：斜齒
 齒面處理：精銑
 硬度處理：無
 壓力角：20度
 材質可用42CrM04

*不同尺寸與材質以可依照圖面客製化。

Manufacturing Description:
 Precision Grade: (JIS Grade 4) DIN 8e25
 Material: (S45C Medium Carbon Steel)C45
 Type: Helical Rack
 Treatment of Teeth: Milled
 Hardness: No Heat treatment.
 Pressure Angle: 20 degree.
 Material can be used 42CrM04

*Other Dimensions/Materials could be customized by drawings.

此樣本中的所有產品型號及參數如有變更恕不另行通告, 訂貨前請與本公司聯絡確認
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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	50	2	32	—	68	64	38	25	25	140.0	63	13.0	53	8	28	M8
CSGHL 30 21	50	3	21	—	69	63	38	25	30	142.0	63	13	55	8	28	M8
CSGHL 20 32	63	2	32	—	68	64	42	28	25	164.5	80	14.5	57.5	8	31	M8
CSGHL 30 21	63	3	21	—	69	63	42	28	30	167.0	80	14.5	60	8	31	M8
CSGHL 40 17	63	4	17	—	76	68	42	28	40	172.0	80	14.5	65	8	31	M8
CSGHL 30 21	80	3	21	—	69	63	48	36	30	185.0	100	12.5	62	10	39	M12
CSGHL 40 17	80	4	17	—	76	68	48	36	40	190.0	100	12.5	67	10	39	M12
CSGHL 40 17	100	4	17	—	76	68	57	48	40	215.0	125	9.0	72	14	51.5	M12
CSGHL 40 30	100	4	30	—	128	120	57	48	40	215.0	125	9.0	72	14	51.5	M12
CSGHL 50 13	100	5	13	0.500	80	65	57	48	50	225.0	125	9.0	82	14	51.5	M12
CSGHL 50 15	125	5	15	0.500	90	75	68	60	50	272.0	150	10.0	90	18	64	M16
CSGHL 60 13	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) DIN 6e25

材料：(S45C中碳鋼) C45

齒型：直齒

齒面處理：研磨

硬度處理：熱處理採用高週波後; 硬度為43~45°

壓力角：20度

材質可用42CrM04，硬度為56~60度

*不同尺寸與材質可以依照圖面客製化。

Manufacturing Description:

Precision Grade: (JIS Grade2) DIN 6e25

Material: (S45C Medium Carbon Steel) C45

Type: Straight Rack

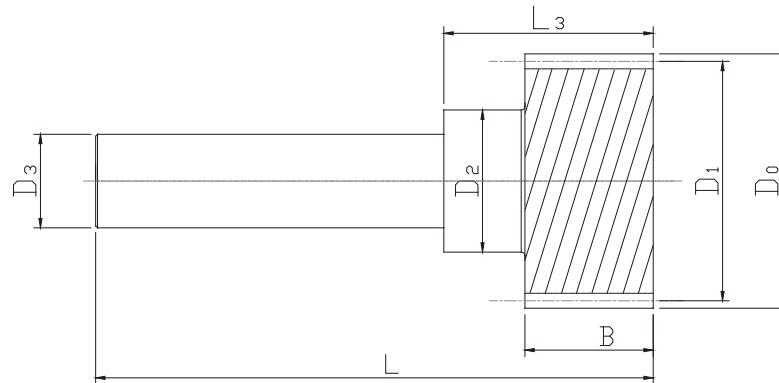
Treatment of Teeth: Ground

Hardness: Heat treatment by High Frequency; 43~45 degree.

Pressure Angle: 20 degree.

Material can be used 42CrM04, hardness is 56 to 60 degrees

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

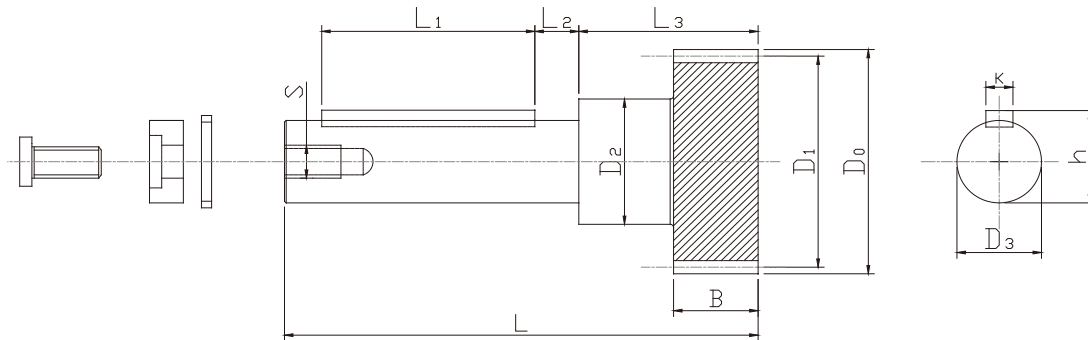
型號 Code	中心距 Center Distance	模數 Module	齒數 Tooth No.	X	D0	D1	D2	D3	B	L	L3
CSGHL 20 32	50	2	32	—	68	64	38	25	25	140.0	34
CSGHL 30 21	50	3	21	—	69	63	38	25	30	142.0	36.5
CSGHL 20 32	63	2	32	—	68	64	42	28	25	164.5	38.5
CSGHL 30 21	63	3	21	—	69	63	42	28	30	167.0	41
CSGHL 40 17	63	4	17	—	76	68	42	28	40	172.0	46
CSGHL 30 21	80	3	21	—	69	63	48	36	30	185.0	37.5
CSGHL 40 17	80	4	17	—	76	68	48	36	40	190.0	42.5
CSGHL 40 17	100	4	17	—	76	68	57	48	40	215.0	43.5
CSGHL 40 30	100	4	30	—	128	120	57	48	40	215.0	43.5
CSGHL 50 13	100	5	13	0.500	80	65	57	48	50	225.0	53.5
CSGHL 50 15	125	5	15	0.500	90	75	68	60	50	255.0	55
CSGHL 60 13	125	6	13	0.500	96	78	68	60	60	265.0	65

製程說明：
 精度等級：（JIS二級）DIN 6e25
 材料：（S45C中碳鋼）C45
 齒型：直齒
 齒面處理：研磨
 硬度處理：熱處理採用高週波後，硬度為43~45°
 壓力角：20度
 材質可用42CrM04，硬度為56~60度

*不同尺寸與材質可以依照圖面客製化。

Manufacturing Description:
 Precision Grade: (JIS Grade 2) DIN 6e25
 Material: (S45C Medium Carbon Steel)C45
 Type: Straight Rack
 Treatment of Teeth: Ground
 Hardness: Heat treatment by High Frequency; 43~45 degree.
 Pressure Angle: 20 degree.
 Material can be used 42CrM04, hardness is 56 to 60 degrees

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	中心距 Center Distance	模數 Module	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	50	2	30	-	67.7	63.66	38	25	25	140.0	63	13.0	53	8	28	M8
CHGHL 30 21	50	3	20	-	69.7	63.66	38	25	30	142.0	63	13	55	8	28	M8
CHGHL 20 32	63	2	30	-	67.7	63.66	42	28	25	164.5	80	14.5	57.5	8	31	M8
CHGHL 30 21	63	3	20	-	69.7	63.66	42	28	30	167.0	80	14.5	60	8	31	M8
CHGHL 40 17	63	4	15	-	71.7	63.66	42	28	40	172.0	80	14.5	65	8	31	M8
CHGHL 30 21	80	3	20	-	69.7	63.66	48	36	30	185.0	100	12.5	62	10	39	M12
CHGHL 40 17	80	4	15	-	71.7	63.66	48	36	40	190.0	100	12.5	67	10	39	M12
CHGHL 40 17	100	4	15	-	71.7	63.66	57	48	40	215.0	125	9.0	72	14	51.5	M12
CHGHL 40 30	100	4	30	-	135.3	127.32	57	48	40	215.0	125	9.0	72	14	51.5	M12
CHGHL 50 13	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	125	5	15	0.500	94.5	79.58	68	60	50	272.0	150	10.0	90	18	64	M16
CHGHL 60 13	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）DIN 6e25

材料：（S45C中碳鋼）C45

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理採用高週波後; 硬度為43~45°

左旋角：19°31'42"

壓力角：20度

材質可用42CrM04，硬度為56~60度

*不同尺寸與材質以可依照圖面客製化。

Manufacturing Description:

Precision Grade: （JIS Grade 2）DIN 6e25

Material: (S45C Medium Carbon Steel)C45

Type: Helical Rack

Treatment of Teeth: Ground

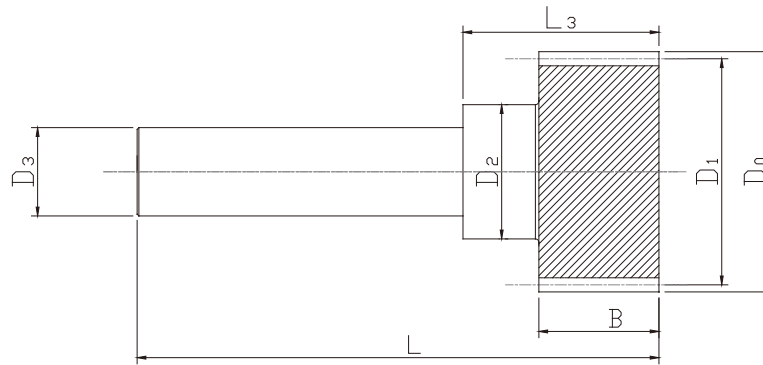
Hardness: Heat treatment by High Frequency; 43~45 degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

Material can be used 42CrM04, hardness is 56 to 60degrees

*Other Dimensions/Materials could be customized by drawings.



單位/Dimension: mm

型號 Code	中心距 Center Distance	模數 Module	齒數 Tooth No.	X	D0	D1	D2	D3	B	L	L3
CHGHL 20 32	50	2	30	—	67.7	63.66	38	25	25	140.0	34
CHGHL 30 21	50	3	20	—	69.7	63.66	38	25	30	142.0	36.5
CHGHL 20 32	63	2	30	—	67.7	63.66	42	28	25	164.5	38.5
CHGHL 30 21	63	3	20	—	69.7	63.66	42	28	30	167.0	41
CHGHL 40 17	63	4	15	—	71.7	63.66	42	28	40	172.0	46
CHGHL 30 21	80	3	20	—	69.7	63.66	48	36	30	185.0	37.5
CHGHL 40 17	80	4	15	—	71.7	63.66	48	36	40	190.0	42.5
CHGHL 40 17	100	4	15	—	71.7	63.66	57	48	40	215.0	43.5
CHGHL 40 30	100	4	30	—	135.3	127.32	57	48	40	215.0	43.5
CHGHL 50 13	100	5	12	0.434	78.0	63.66	57	48	50	225.0	53.5
CHGHL 50 15	125	5	15	0.500	94.5	79.58	70	60	50	255.0	55
CHGHL 60 13	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）DIN 6e25

材料：（S45C中碳鋼）C45

齒型：斜齒

齒面處理：研磨

硬度處理：熱處理採用高週波後;硬度為43~45°

左旋角：19°31'42"

壓力角：20度

材質可用42CrM04，硬度為56~60度

*不同尺寸與材質以可依照圖面客製化。

Manufacturing Description:

Precision Grade: （JIS Grade 2）DIN 6e25

Material: (S45C Medium Carbon Steel)C45

Type: Helical Rack

Treatment of Teeth: Ground

Hardness: Heat treatment by High Frequency; 56~60degree.

left Hand Angle: 19°31'42"

Pressure Angle: 20 degree.

Material can be used 42CrM04, hardness is 56 to 60degrees

*Other Dimensions/Materials could be customized by drawings.