



齒條 & 齒輪
Racks and Pinions



You Drive, You Control

公司簡介

原億昌機械將近四十年的生產經驗，擁有 ISO 9001 認證，與經濟部工研院產學合作，因應目前全球智能製造的趨勢，提供傳動系列零配件與設備，包含齒條（排齒）、導軌齒條、齒輪、滾輪、行星減速機和消除減速機等產品。

廣大客群包含各行業領域例如：CNC 機台、工具母機、木工機、印刷機、切割機、龍門銑床、磨床、鑽床、彎管機、機器人手臂、自動化倉儲設備、自動上下料軌道、沙灘車、汽車、航空母艦、半導體設備廠、起重機等。

原億昌產品優良，於 2015 年榮獲台灣第 12 屆國家品牌玉山獎，傑出企業類；2016 年極度精密齒條齒輪組，榮獲第十三屆國家品牌玉山獎最佳產品獎，與金炬獎十大績優商品獎。

原億昌以自有品牌 YYC 行銷市場，"You drive, You Control!" 你驅動，你掌控！為企業標語，目標是客戶所使用的驅動零件品質卓越，效能皆在客戶的掌控之中，將產品定位於中高端市場，已經行銷近五十多個國家，提供更多客戶滿意，是我們持續努力的目標。

COMPANY PROFILE

Yuan Yi Chang Machinery has nearly 40-years-experience, with ISO 9001 certificate and work projects with Industrial Technology Research Institute. Corresponding to smart manufacturing trend globally, YYC offers different series of transmission parts and equipment including Rack, Guideway Rack, Pinion, Roller, Planetary Reducers, Backlash Free Reducers.

Our major clients include all kinds of industries and fields such as CNC machines, machine centers, wood-cutting machines, printing machines, cutting machines, gantry milling machines, grinding machines, drilling machines, bending machines, robotic arms, automatic storage equipment, automatic upload & unload track, ATV, aircraft carrier, semiconductor plant, cranes, and so on.

YYC has excellent quality capability. In 2015, we earned Best Enterprise of National Brand Yu-Shan Award. In 2016, our Ultra High Precision Rack and Pinion won Best Products of National Brand Yu-Shan Award and Golden Torch Prize.

Yuan Yi Chang has marketed by brand name "YYC" which means "You drive, You Control!" Every driven part with outstanding quality, so the performance is under customer's control. Products are target on middle to high end markets. Currently, we are exporting nearly 50 countries. To have more customers' satisfactions is our continuous goal.



索引

Index



規範與等級 P.3
齒條目錄 P.4
齒條型號說明 P.5
齒條 P.6

Specification & Quality Grade..... P.3
Contents of Racks.....P.4
Rack Code Instruction..... P.5
Racks.....P.6



導軌齒條目錄 P.26
導軌齒條型號說明 P.26
導軌齒條 P.27

Content of Guideway Racks.....P.26
Guideway Racks Code Instruction..... P.26
Guideway Racks..... P.27



齒輪目錄 P.31
齒輪型號說明 P.32
齒輪 P.33

Contents of Pinions.....P.31
Pinion Code Instruction.....P.32
Pinions.....P.33



滾輪目錄 P.107
滾輪型號說明 P.107
滾輪 P.108

Contents of Rollers.....P.107
Roller Code Instruction.....P.107
Rollers..... P.108

附錄

Appendix

定義 P.109
標準直齒輪計算 P.110
斜齒輪計算 P.111
負荷係數 / 壽命係數 /
標準直齒輪齒輪徑向咬合率 P.112
齒輪與齒條的強度計算公式 P.113
硬度對照表 P.114
齒距和模數轉換表 P.115
斜齒齒規安裝規格表 P.116
直齒齒規安裝規格表 P.117
齒條安裝手冊 P.119

Definition..... P.109
Straight Gear Calculation..... P.110
Helical Gear Calculation..... P.111
Overload Factor K_a / Life Factor K_L /
Radial Contact Ratio of Standard Spur Gear..... P.112
Strength and Durability of Gears..... P.113
Steel Hardness Conversion Chart.....P.114
Conversion Table for Gear Pitch and Module.....P.115
Helical Rack Gauge for Assembling.....P.116
Straight Rack Gauge for Assembling.....P.117
Instruction of Rack Assembly Steps.....P.119

世界主要齒條與齒輪標準規範

World Major Standard Specification of Racks and Pinions

簡稱 Specification	中文名稱	Full Name
AGMA	美國齒輪製造協會	American Gear Manufacturers Association
DIN	德國標準化學會	Deutsches Institut für Normung
ISO	國際標準化組織	International Organization for Standardization
JIS	日本工業標準	Japanese Industrial Standards

精度等級對照表

Quality Grade Comparison Table

規格 Standard	精 度 等 級 / Quality Grade											
ISO	1	2	3	4	5	6	7	8	9	10	11	12
DIN		2	3	4	5	6	7	8	9	10	11	12
AGMA		15	14	13	12	11	10	9	8	7	6	5
JIS				0	1	2	3	4	5	6	7	8
JIS N				N4	N5	N6	N7	N8	N9	N10		

以節距誤差比較：F_p f_p

Compared with Pitch Error: F_p f_p

齒條目錄 Contents of Racks

齒條 Rack

型號 Code	精度等級 DIN 3962	材 料 Material	齒型 Type	齒面處理 Teeth Treatment	硬度處理 Hardness	鑽 孔 Mounted Holes	模 數 Module	頁碼 Page
CHTGH	DIN 5	S45C	斜齒齒輪右斜 Helical19°31'42"	齒面研磨 Teeth Ground	熱處理 Hardened HRC 50°-55°	鑽孔 Holes	1.5, 2, 2.5, 3, 4, 5, 6, 8	P.6
CHTGH	DIN 6	S45C			熱處理 Hardened HRC 50°-55°		1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	P.7
MHTG	DIN 6	SCM440			*		1.5, 2, 2.5, 3, 4, 5, 6, 8	P.8
CHTM	DIN 8	S45C		精銑 Milled	*		1.5, 2, 3, 4, 5, 6, 8, 10	P.9
CHTMQ	DIN 8	S45C			調質 HRC18°-22° Quenched & Tempered		1.5, 2, 3, 4, 5, 6, 8, 10	P.10
CHTMH	DIN 10	S45C			熱處理 Hardened HRC 50°-55°		1.5, 2, 3, 4, 5, 6, 8, 10	P.11
CSTGH	DIN 5	S45C	直齒 Straight	齒面研磨 Teeth Ground	熱處理 /Hardened HRC 50°-55	2, 3, 4, 5	P.12	
CSTGH	DIN 6	S45C				1.5, 2, 2.5, 3, 4, 5, 6, 8	P.13	
CSTM	DIN 8	S45C				*	1.5, 2, 3, 4, 5, 6, 8, 10	P.14
CSTMQ	DIN 8	S45C		精銑 Milled	調質 Quenched&Tempered HRC 18°-20°	1.5, 2, 3, 4, 5, 6, 8, 10	P.15	
CSTMH	DIN 10	S45C			熱處理 Hardened HRC 50°-55°	1.5, 2, 3, 4, 5, 6, 8, 10	P.16	

型號 Code	精度等級 JIS	材 料 Material	齒型 Type	齒面處理 Teeth Treatment	硬度處理 Hardness	鑽 孔 Mounted Holes	模 數 Module	頁碼 Page
MHTGQ	JIS 1	SCM440	斜齒齒輪右斜 Helical 20°30'	齒面研磨 Teeth Ground	調質 HRC18°-20° Quenched & Tempered	鑽孔 Holes	1, 1.5, 2, 2.5, 3	P.17
CHTM	JIS 4	S45C	斜齒齒輪右斜 Helical 15°	精銑 Milled	*	有 / 無鑽孔 with/out Holes	2, 3	P.18
CSTGH	JIS 2	S45C	直齒 Straight	齒面研磨 Teeth Ground	熱處理 Hardened HRC 50°-55°	有 / 無鑽孔 with/out Holes	1, 1.5, 2, 2.5, 3, 4, 5, 6	P.19
MSTMQ	JIS 4	SCM440			調質 HRC18°-22° Quenched & Tempered	有 / 無鑽孔 with/out Holes	1.5, 2, 2.5, 3, 4, 5, 6	P.20
CSTM	JIS 4	S45C		精銑 Milled	*	有 / 無鑽孔 with/out Holes	1, 1.5, 2, 2.5, 3, 4, 5, 6	P.21
CSTMH	JIS 5	S45C			熱處理 Hardened HRC 50°-55°	有 / 無鑽孔 with/out Holes	1.5, 2, 2.5, 3, 4, 5, 6	P.22

型號 Code	精度等級 JIS	材 料 Material	齒型 Type	齒面處理 Teeth Treatment	硬度處理 Hardness	鑽 孔 Mounted Holes	周節 CP	頁碼 Page
MSTGQ-CP	JIS 1	SCM440	直齒 Straight	齒面研磨 Teeth Ground	調質 HRC18°-22° Quenched & Tempered	有 / 無鑽孔 with/out Holes	5, 10	P.23
MSTGH-CP	JIS 1	SCM440			熱處理 Hardened HRC 55°-58°	有 / 無鑽孔 with/out Holes	5, 10	P.24
CSTM-CP	JIS 4	S45C		精銑 Milled	*	有 / 無鑽孔 with/out Holes	5, 10, 15, 20	P.25

齒條型號說明 Rack Code Instruction

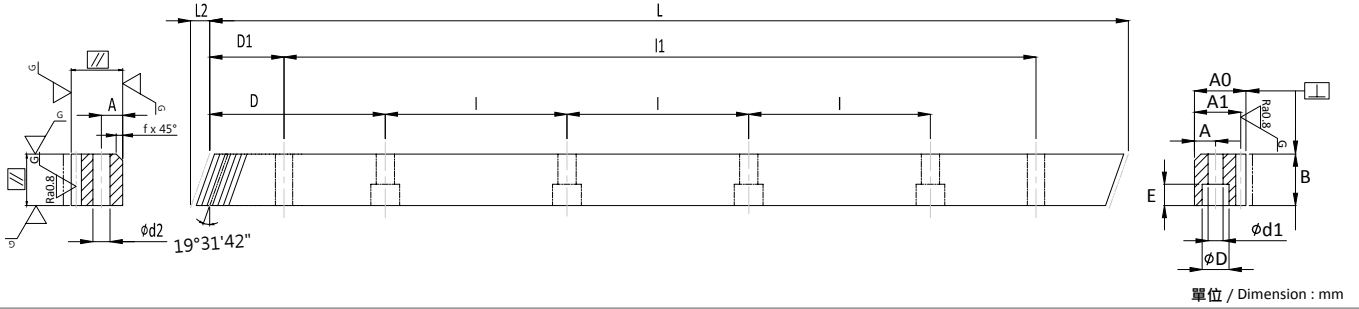


1st	2nd	3th	4th	5th	6th	7th	8th
材料 Material	齒型 Type	棒型 Shape	齒面處理 Teeth Treatment	硬度處理 Hardness	模數 Module	長度 Length	等級 Grade
C	S	T	G	H	020	10	DIN JIS
C= 中碳鋼 M= 合金鋼	S= 直齒 H= 斜齒	T= 四角棒	M= 精銑 G= 齒研	Q= 調質 H= 硬化處理	M1.5~M10	05=500mm 10=1000mm 15=1500mm 20=2000mm	DIN 5-9 JIS 1-5
C= Carbon Steel =S45C M= Alloy Steel =SCM440	S= Straight H= Helical	T= Tetragon	M= Milled G= Ground	H= Hardened Q= Quenched & Tempered			

備註：長度、鑽孔、材質、表面處理（噴砂、磷酸鹽、研磨）等特殊需求，皆可客製。

Remarks: Lengths, holes, materials, surface treatments (sandblasted, phosphated, sides ground) and other requirements all could be customized.

CHTGH-DIN5



系列 CHTGH-DIN5 斜齒齒研齒條
品質等級 DIN 5

Series CHTGH-DIN5 Helical Teeth Ground Racks
Quality Grade DIN 5

材料 S45C
右旋角 19°31'42"
硬度 HRC 50~55°
硬化處理後四面研磨與齒研
總齒距誤差 : $F_p / 1000 \leq 0.026$ mm
室溫在攝氏 25° 為準

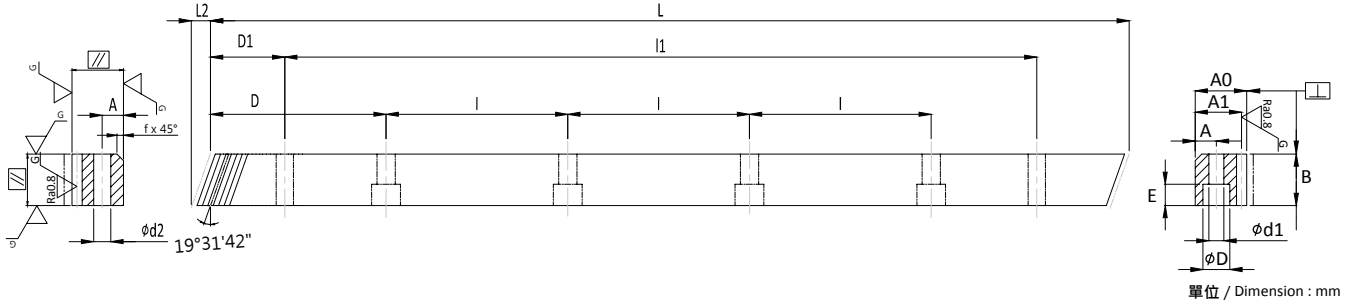
Material S45C
Right Hand Angle 19°31'42"
Hardness HRC 50~55°
Ground on all sides after hardening.
Total Pitch Error: $F_p / 1000 \leq 0.026$ mm
Room Temperature is 25°C

型號 Code	模數 Module	L	L2	齒數 No. of Teeth	B	A0	A1	D	I	孔數 No of Holes	A	ød1	øD	E	D1	I1	ød2	f	F _{ta} kN	KG
CHTGH01505-DIN5	1.5	500.00	6.70	100	19	19	17.5	62.5	125	4	8	7	11	7	31.7	436.60	5.7	1.5	6.87	1.3
CHTGH01510-DIN5	1.5	1000.00	6.70	200	19	19	17.5	62.5	125	8	8	7	11	7	31.7	936.60	5.7	1.5	6.97	2.6
CHTGH02005-DIN5	2	500.00	8.50	75	24	24	22.0	62.5	125	4	8	7	11	7	31.7	436.60	5.7	2	11.46	2.1
CHTGH02010-DIN5	2	1000.00	8.50	150	24	24	22.0	62.5	125	8	8	7	11	7	31.7	936.60	5.7	2	11.68	4.1
CHTGH02505-DIN5	2.5	500.00	8.50	60	24	24	21.5	62.5	125	4	9	7	11	7	31.7	436.60	5.7	2	14.20	2.1
CHTGH02510-DIN5	2.5	1000.00	8.50	120	24	24	21.5	62.5	125	8	9	7	11	7	31.7	936.60	5.7	2	14.52	4.1
CHTGH03005-DIN5	3	500.00	10.30	50	29	29	26.0	62.5	125	4	9	10	15	9	35	430.00	7.7	2	20.41	3.0
CHTGH03010-DIN5	3	1000.00	10.30	100	29	29	26.0	62.5	125	8	9	10	15	9	35	930.00	7.7	2	20.96	6.0
CHRGH04005-DIN5	4	506.67	13.80	38	39	39	35.0	62.5	125	4	12	10	15	9	33.3	433.00	7.7	2	36.11	5.5
CHTGH04010-DIN5	4	1000.00	13.80	75	39	39	35.0	62.5	125	8	12	10	15	9	33.3	933.40	7.7	2	37.24	10.8
CHTGH05005-DIN5	5	500.00	17.40	30	49	49	34.0	62.5	125	4	12	14	20	13	37.5	425.00	11.7	3	55.95	6.8
CHTGH05010-DIN5	5	1000.00	17.40	60	49	49	34.0	62.5	125	8	12	14	20	13	37.5	925.00	11.7	3	57.97	13.6
CHTGH06005-DIN5	6	500.00	20.90	25	59	49	43.0	62.5	125	4	16	18	26	17	37.5	425.00	15.7	3	79.91	10.3
CHTGH06010-DIN5	6	1000.00	20.90	50	59	49	43.0	62.5	125	8	16	18	26	17	37.5	925.00	15.7	3	83.07	20.5
CHTGH08005-DIN5	8	480.00	28.00	18	79	79	71.0	60.0	120	4	25	22	33	21	120	240.00	19.7	4	139.40	21.3
CHTGH08010-DIN5	8	960.00	28.00	36	79	79	71.0	60.0	120	8	25	22	33	21	120	720.00	19.7	4	145.83	42.6

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CHTGH-DIN6



系列 CHTGH-DIN6 斜齒齒研齒條
品質等級 DIN 6

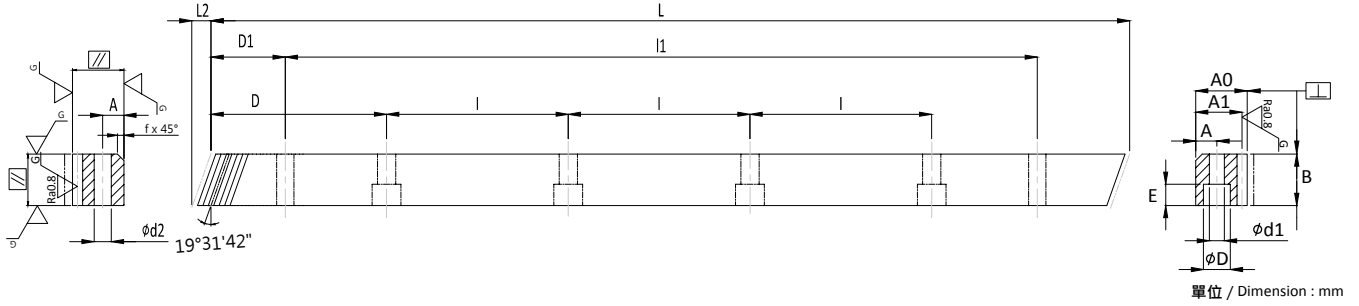
材料 S45C
右旋角 19°31'42"
硬度 HRC 50~55°
硬化處理後四面研磨與齒研
總齒距誤差: $F_p/1000 \leq 0.036 \text{ mm}$
 $F_p/2000 \leq 0.047 \text{ mm} (\leq 0.024/1000 \text{ mm})$

Series CHTGH-DIN6 Helical Teeth Ground Racks
Quality Grade DIN 6

Material S45C
Right Hand Angle 19°31'42"
Hardness HRC 50~55°
Ground on all sides after hardening.
Total Pitch Error: $F_p/1000 \leq 0.036 \text{ mm}$
 $F_p/2000 \leq 0.047 \text{ mm} (\leq 0.024/1000 \text{ mm})$

型號 Code	模數 Module	L	L2	齒數 No. of Teeth	B	A0	A1	D	l	孔數 No of Holes	A	ød1	øD	E	D1	l1	ød2	f	F _{ta} kN	KG
CHTGH01505-DIN6	1.5	500.00	6.70	100	19	19	17.5	62.5	125	4	8	7	11	7	31.7	436.60	5.7	1.5	6.87	1.3
CHTGH01510-DIN6	1.5	1000.00	6.70	200	19	19	17.5	62.5	125	8	8	7	11	7	31.7	936.60	5.7	1.5	6.97	2.6
CHTGH02005-DIN6	2	500.00	8.50	75	24	24	22.0	62.5	125	4	8	7	11	7	31.7	436.60	5.7	2	11.46	2.1
CHTGH02010-DIN6	2	1000.00	8.50	150	24	24	22.0	62.5	125	8	8	7	11	7	31.7	936.60	5.7	2	11.68	4.1
CHTGH02020-DIN6	2	2000.00	8.50	300	24	24	22.0	62.5	125	16	8	7	11	7	31.7	1936.60	5.7	2	11.80	8.2
CHTGH02505-DIN6	2.5	500.00	8.50	60	24	24	21.5	62.5	125	4	9	7	11	7	31.7	436.60	5.7	2	14.20	2.1
CHTGH02510-DIN6	2.5	1000.00	8.50	120	24	24	21.5	62.5	125	8	9	7	11	7	31.7	936.60	5.7	2	14.52	4.1
CHTGH02520-DIN6	2.5	2000.00	8.50	240	24	24	21.5	62.5	125	16	9	7	11	7	31.7	1936.60	5.7	2	14.71	8.2
CHTGH03005-DIN6	3	500.00	10.30	50	29	29	26.0	62.5	125	4	9	10	15	9	35.0	430.00	7.7	2	20.41	3.0
CHTGH03010-DIN6	3	1000.00	10.30	100	29	29	26.0	62.5	125	8	9	10	15	9	35.0	930.00	7.7	2	20.96	6.0
CHTGH03020-DIN6	3	2000.00	10.30	200	29	29	26.0	62.5	125	16	9	10	15	9	35.0	1930.00	7.7	2	21.28	12.0
CHTGH04005-DIN6	4	506.67	13.80	38	39	39	35.0	62.5	125	4	12	10	15	9	33.3	433.00	7.7	2	36.11	5.5
CHTGH04010-DIN6	4	1000.00	13.80	75	39	39	35.0	62.5	125	8	12	10	15	9	33.3	933.40	7.7	2	37.24	10.8
CHTGH04020-DIN6	4	2000.00	13.80	150	39	39	35.0	62.5	125	16	12	10	15	9	33.3	1933.40	7.7	2	37.95	21.6
CHTGH05005-DIN6	5	500.00	17.40	30	49	49	34.0	62.5	125	4	12	14	20	13	37.5	425.00	11.7	3	55.95	6.8
CHTGH05010-DIN6	5	1000.00	17.40	60	49	49	34.0	62.5	125	8	12	14	20	13	37.5	925.00	11.7	3	57.97	13.6
CHTGH05020-DIN6	5	2000.00	17.40	120	49	49	34.0	62.5	125	16	12	14	20	13	37.5	1925.00	11.7	3	59.30	27.2
CHTGH06005-DIN6	6	500.00	20.90	25	59	59	43.0	62.5	125	4	16	18	26	17	37.5	425.00	15.7	3	79.91	10.3
CHTGH06010-DIN6	6	1000.00	20.90	50	59	59	43.0	62.5	125	8	16	18	26	17	37.5	925.00	15.7	3	83.07	20.5
CHTGH06020-DIN6	6	2000.00	20.90	100	59	59	43.0	62.5	125	16	16	18	26	17	37.5	1925.00	15.7	3	85.29	41.1
CHTGH08005-DIN6	8	480.00	28.00	18	79	79	71.0	60.0	120	4	25	22	33	21	120.0	240.00	19.7	4	139.40	21.3
CHTGH08010-DIN6	8	960.00	28.00	36	79	79	71.0	60.0	120	8	25	22	33	21	120.0	720.00	19.7	4	145.83	42.6
CHTGH08020-DIN6	8	1920.00	28.00	72	79	79	71.0	60.0	120	16	25	22	33	21	120.0	1680.00	19.7	4	150.59	85.1
CHTGH10005-DIN6	10	500.00	35.11	15	99	99	89.0	62.5	125	4	32	33	48	32	125.0	250.00	19.7	5	215.33	34.8
CHTGH10010-DIN6	10	1000.00	35.11	30	99	99	89.0	62.5	125	8	32	33	48	32	125.0	750.00	19.7	5	226.09	69.6

MHTG-DIN6



系列 MHTG-DIN6 斜齒齒研齒條
品質等級 DIN 6

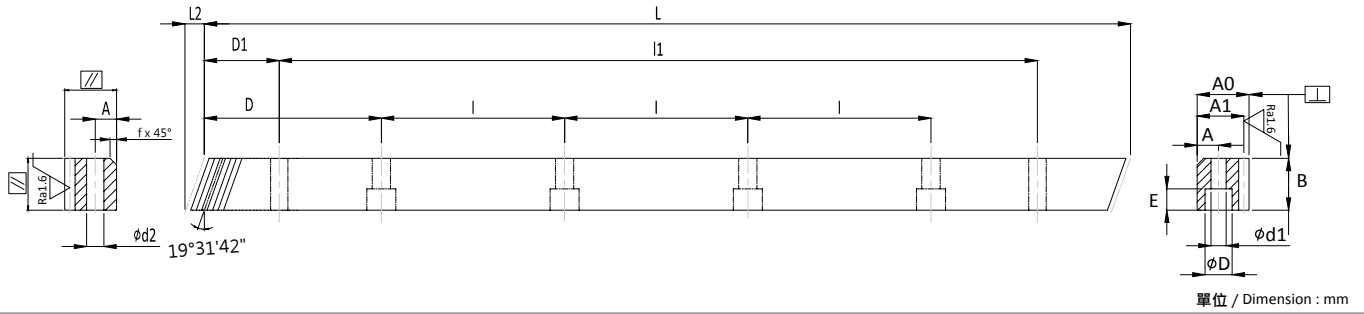
材料 SCM440
右旋角 19°31'42"
硬度 HRC 10~12°
四面研磨與齒研
總齒距誤差 : $F_p/1000 \leq 0.048 \text{ mm}$
 $F_p/2000 \leq 0.062 \text{ mm} (\leq 0.034/1000 \text{ mm})$

Series MHTG-DIN6 Helical Teeth Ground Racks
Quality Grade DIN 6

Material SCM440
Right Hand Angle 19°31'42"
Hardness HRC 10~12°
Ground on all sides.
Total Pitch Error: $F_p/1000 \leq 0.048 \text{ mm}$
 $F_p/2000 \leq 0.062 \text{ mm} (\leq 0.034/1000 \text{ mm})$

型號 Code	模數 Module	L	L2	齒數 No. of Teeth	B	A0	A1	D	l	孔數 No of Holes	A	φd1	φD	E	D1	l1	φd2	f	F _{ta} kN	KG
MHTG01505-DIN6	1.5	500.00	6.70	100	19	19	17.5	62.5	125	4	8	7	11	7	31.7	436.60	5.7	1.5	9.48	1.3
MHTG01510-DIN6	1.5	1000.00	6.70	200	19	19	17.5	62.5	125	8	8	7	11	7	31.7	936.60	5.7	1.5	9.63	2.6
MHTG02005-DIN6	2	500.00	8.50	75	24	24	22.0	62.5	125	4	8	7	11	7	31.7	436.60	5.7	2	15.82	2.1
MHTG02010-DIN6	2	1000.00	8.50	150	24	24	22.0	62.5	125	8	8	7	11	7	31.7	936.60	5.7	2	16.13	4.1
MHTG02020-DIN6	2	2000.00	8.50	300	24	24	22.0	62.5	125	16	8	7	11	7	31.7	1936.60	5.7	2	16.31	8.2
MHTG02505-DIN6	2.5	500.00	8.50	60	24	24	21.5	62.5	125	4	9	7	11	7	31.7	436.60	5.7	2	19.61	2.1
MHTG02510-DIN6	2.5	1000.00	8.50	120	24	24	21.5	62.5	125	8	9	7	11	7	31.7	936.60	5.7	2	20.06	4.1
MHTG02520-DIN6	2.5	2000.00	8.50	240	24	24	21.5	62.5	125	16	9	7	11	7	31.7	1936.60	5.7	2	20.32	8.2
MHTG03005-DIN6	3	500.00	10.30	50	29	29	26.0	62.5	125	4	9	10	15	9	35.0	430.00	7.7	2	28.20	3.0
MHTG03010-DIN6	3	1000.00	10.30	100	29	29	26.0	62.5	125	8	9	10	15	9	35.0	930.00	7.7	2	28.95	6.0
MHTG03020-DIN6	3	2000.00	10.30	200	29	29	26.0	62.5	125	16	9	10	15	9	35.0	1930.00	7.7	2	29.39	12.0
MHTG04005-DIN6	4	506.67	13.80	38	39	39	35.0	62.5	125	4	12	10	15	9	33.3	433.00	7.7	2	49.87	5.5
MHTG04010-DIN6	4	1000.00	13.80	75	39	39	35.0	62.5	125	8	12	10	15	9	33.3	933.40	7.7	2	51.43	10.8
MHTG04020-DIN6	4	2000.00	13.80	150	39	39	35.0	62.5	125	16	12	10	15	9	33.3	1933.40	7.7	2	52.42	21.6
MHTG05005-DIN6	5	500.00	17.40	30	49	49	34.0	62.5	125	4	12	14	20	13	37.5	425.00	11.7	3	77.28	6.8
MHTG05010-DIN6	5	1000.00	17.40	60	49	49	34.0	62.5	125	8	12	14	20	13	37.5	925.00	11.7	3	80.06	13.6
MHTG05020-DIN6	5	2000.00	17.40	120	49	49	34.0	62.5	125	16	12	14	20	13	37.5	1925.00	11.7	3	81.90	27.2
MHTG06005-DIN6	6	500.00	20.90	25	59	59	43.0	62.5	125	4	16	18	26	17	37.5	425.00	15.7	3	110.37	10.3
MHTG06010-DIN6	6	1000.00	20.90	50	59	59	43.0	62.5	125	8	16	18	26	17	37.5	925.00	15.7	3	114.73	20.5
MHTG06020-DIN6	6	2000.00	20.90	100	59	59	43.0	62.5	125	16	16	18	26	17	37.5	1925.00	15.7	3	117.80	41.1
MHTG08005-DIN6	8	480.00	28.00	18	79	79	71.0	60.0	120	4	25	22	33	21	120.0	240.00	19.7	4	192.53	21.3
MHTG08010-DIN6	8	960.00	28.00	36	79	79	71.0	60.0	120	8	25	22	33	21	120.0	720.00	19.7	4	201.42	42.6
MHTG08020-DIN6	8	1920.00	28.00	72	79	79	71.0	60.0	120	16	25	22	33	21	120.0	1680.00	19.7	4	207.99	85.1

CHTM-DIN8



單位 / Dimension : mm

系列 CHTM-DIN8 斜齒精銑齒條
品質等級 DIN 8

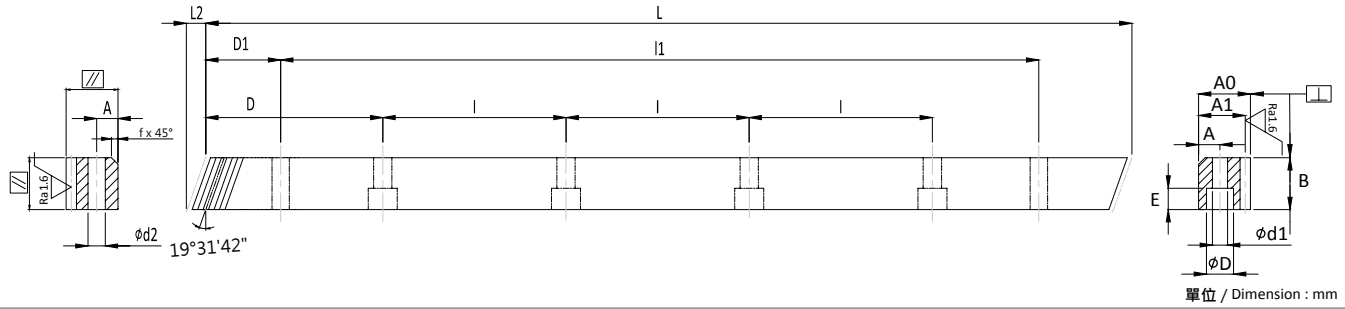
Series CHTM-DIN8 Helical Milled Racks
Quality Grade DIN 8

材料 S45C
右旋角 19°31'42"
硬度 HRC 10~12°
總齒距誤差 : $F_p / 1000 \leq 0.060$ mm
 $F_p / 2000 \leq 0.080$ mm

Material S45C
Right Hand Angle 19°31'42"
Hardness: Soft HRC 10~12°
Total Pitch Error: $F_p / 1000 \leq 0.060$ mm
 $F_p / 2000 \leq 0.080$ mm

型號 Code	模數 Module	L	L2	齒數 No. of Teeth	B	A0	A1	D	I	孔數 No of Holes	A	ød1	øD	E	D1	I1	ød2	f	F _{ta} kN	KG
CHTM01510-DIN8	1.5	1000	6.00	200	17	17	15.5	62.5	125	8	7	6	9.5	6	31.7	936.6	5.70	1.5	4.35	2.1
CHTM02010-DIN8	2	1000	8.90	150	25	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.70	2	8.49	4.3
CHTM02020-DIN8	2	2000	8.90	300	25	24	22	62.5	125	16	8	7	11	7	31.7	1936.6	5.70	2	8.58	8.5
CHTM03010-DIN8	3	1000	10.60	100	30	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.70	2	15.13	6.2
CHTM03020-DIN8	3	2000	10.60	200	30	29	26	62.5	125	16	9	10	15	9	35.0	1930.0	7.70	2	15.36	12.4
CHTM04010-DIN8	4	1000	14.20	75	40	39	35	62.5	125	8	12	10	15	9	33.3	933.4	7.70	2	26.65	11.1
CHTM04020-DIN8	4	2000	14.20	150	40	39	35	62.5	125	16	12	10	15	9	33.3	1933.4	7.70	2	27.16	22.2
CHTM05010-DIN8	5	1000	17.40	60	49	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.70	3	40.44	13.6
CHTM05020-DIN8	5	2000	17.40	120	49	39	34	62.5	125	16	12	14	20	13	37.5	1925.0	11.70	3	41.37	27.2
CHTM06010-DIN8	6	1000	20.90	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.70	3	57.96	20.5
CHTM06020-DIN8	6	2000	20.90	100	59	49	43	62.5	125	16	16	18	26	17	37.5	1925.0	15.70	3	59.51	41.1
CHTM08010-DIN8	8	960	28.00	36	79	79	71	60	120	8	25	22	33	21	120.0	720.0	19.70	4	101.75	42.6
CHTM08020-DIN8	8	1920	28.00	72	79	79	71	60	120	16	25	22	33	21	120.0	1680.0	19.70	4	105.07	85.1
CHTM10010-DIN8	10	1000	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125.0	750.0	19.70	5	157.75	69.6

CHTMQ-DIN8



單位 / Dimension : mm

系列 CHTMQ-DIN8 斜齒精銑調質齒條
品質等級 DIN 8

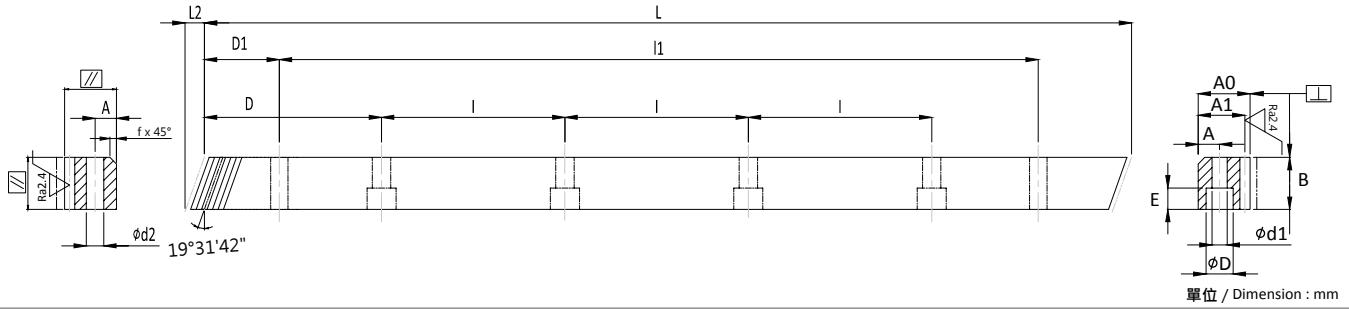
Series CHTMQ-DIN8 Helical Milled Quenched & Tempered Racks
Quality Grade DIN 8

材料 S45C
右旋角 19°31'42"
硬度 HRC 18~20°
總齒距誤差 : $F_p / 1000 \leq 0.060 \text{ mm}$
 $F_p / 2000 \leq 0.080 \text{ mm}$

Material S45C
Right Hand Angle 19°31'42"
Hardness: Soft HRC 18~20°
Total Pitch Error: $F_p / 1000 \leq 0.060 \text{ mm}$
 $F_p / 2000 \leq 0.080 \text{ mm}$

型號 Code	模數 Module	L	L2	齒數 No. of Teeth	B	A0	A1	D	I	孔數 No of Holes	A	ød1	øD	E	D1	I1	ød2	f	F _{ta} kN	KG
CHTMQ01510-DIN8	1.5	1000	6.00	200	17	17	15.5	62.5	125	8	7	6	9.5	7	31.7	936.6	5.7	1.5	5.28	2.1
CHTMQ02010-DIN8	2	1000	8.90	150	25	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.7	2	10.29	4.3
CHTMQ02020-DIN8	2	2000	8.90	300	25	24	22	62.5	125	16	8	7	11	7	31.7	1936.6	5.7	2	10.41	8.5
CHTMQ03010-DIN8	3	1000	10.60	100	30	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.7	2	18.35	6.2
CHTMQ03020-DIN8	3	2000	10.60	200	30	29	26	62.5	125	16	9	10	15	9	35.0	1930.0	7.7	2	18.62	12.4
CHTMQ04010-DIN8	4	1000	14.20	75	40	39	35	62.5	125	8	12	10	15	9	33.3	933.4	7.7	2	32.32	11.1
CHTMQ04020-DIN8	4	2000	14.20	150	40	39	35	62.5	125	16	12	10	15	9	33.3	1933.4	7.7	2	32.94	22.2
CHTMQ05010-DIN8	5	1000	17.40	60	49	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7	3	49.05	13.6
CHTMQ05020-DIN8	5	2000	17.40	120	49	39	34	62.5	125	16	12	14	20	13	37.5	1925.0	11.7	3	50.18	27.2
CHTMQ06010-DIN8	6	1000	20.90	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7	3	70.29	20.5
CHTMQ06020-DIN8	6	2000	20.90	100	59	49	43	62.5	125	16	16	18	26	17	37.5	1925.0	15.7	3	72.17	41.1
CHTMQ08010-DIN8	8	960	28.00	36	79	79	71	60	120	8	25	22	33	21	120.0	720.0	19.7	4	123.40	42.6
CHTMQ08020-DIN8	8	1920	28.00	18	79	79	71	60	120	16	25	22	33	21	120.0	1680.0	19.7	4	117.95	85.1
CHTMQ10010-DIN8	10	1000	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125.0	750.0	19.7	5	191.31	69.6

CHTMH-DIN10



單位 / Dimension : mm

系列 CHTMH-DIN10 斜齒熱處理齒條
品質等級 DIN 10

材料 S45C
右旋角 19°31'42"
硬度 HRC 50~55°
表面經噴砂處理
總齒距誤差 : $F_p / 1000 \leq 0.15 \text{ mm}$

Series CHTMH-DIN 10 Helical Hardened Racks
Quality Grade DIN 10

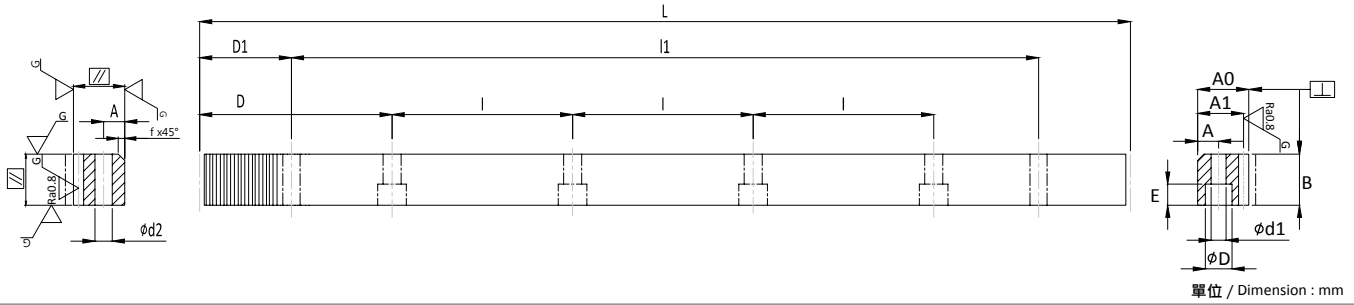
Material S45C
Right Hand Angle 19°31'42"
Hardness: Soft HRC 50~55°
Surfaces are sandblasted.
Total Pitch Error: $F_p / 1000 \leq 0.15 \text{ mm}$

型號 Code	模數 Module	L	L2	齒數 No. of Teeth	B	A0	A1	D	l	孔數 No of Holes	A	ød1	øD	E	D1	l1	ød2	f	F _{ta} kN	KG
CHTMH01510-DIN10	1.5	1000	6.00	200	17	17	15.5	62.5	125	8	7	6	9.5	7	31.7	936.6	5.7	1.5	4.57	2.1
CHTMH02010-DIN10	2	1000	8.50	150	24	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.7	2	8.56	4.1
CHTMH02020-DIN10	2	2000	8.50	300	24	24	22	62.5	125	16	8	7	11	7	31.7	1936.6	5.7	2	8.66	8.2
CHTMH03010-DIN10	3	1000	10.30	100	29	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.7	2	15.37	6.0
CHTMH03020-DIN10	3	2000	10.30	200	29	29	26	62.5	125	16	9	10	15	9	35.0	1930.0	7.7	2	15.60	12.0
CHTMH04010-DIN10	4	1000	13.80	75	39	39	35	62.5	125	8	12	10	15	9	33.3	933.4	7.7	2	27.31	10.8
CHTMH04020-DIN10	4	2000	13.80	150	39	39	35	62.5	125	16	12	10	15	9	33.3	1933.4	7.7	2	27.83	21.6
CHTMH05010-DIN10	5	1000	17.40	60	49	49	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7	3	42.51	13.6
CHTMH05020-DIN10	5	2000	17.40	120	49	49	34	62.5	125	16	12	14	20	13	37.5	1925.0	11.7	3	43.49	27.2
CHTMH06010-DIN10	6	1000	20.90	50	59	59	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7	3	60.92	20.5
CHTMH06020-DIN10	6	2000	20.90	100	59	59	43	62.5	125	16	16	18	26	17	37.5	1925.0	15.7	3	62.54	41.1
CHTMH08010-DIN10	8	960	28.00	36	79	79	71	60	120	8	25	22	33	21	120.0	720.0	19.7	4	106.94	42.6
CHTMH08020-DIN10	8	1920	28.00	72	79	79	71	60	120	16	25	22	33	21	120.0	1680.0	19.7	4	110.43	85.1
CHTMH10010-DIN10	10	1000	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125.0	750.0	19.7	5	165.80	69.6

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSTGH-DIN5



單位 / Dimension : mm

系列 CSTGH-DIN5 直齒齒研齒條
品質等級 DIN 5

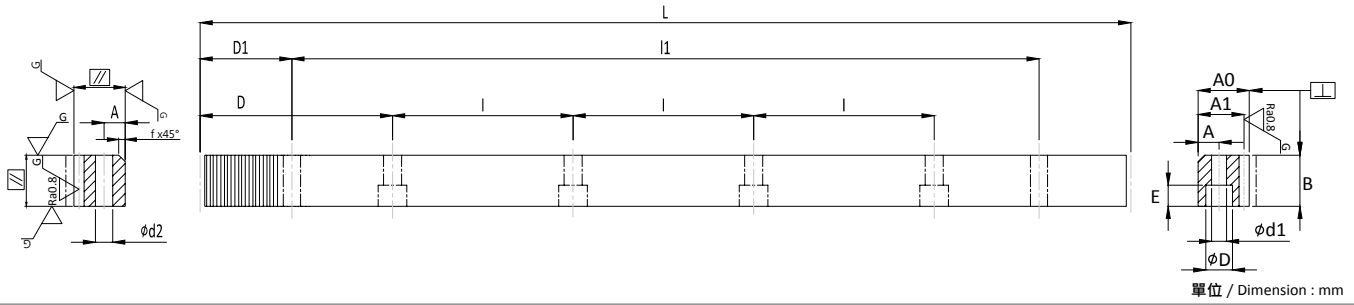
Series CSTGH-DIN5 Straight Teeth Ground Racks
Quality Grade DIN 5

材料 S45C
硬度 HRC 50~55°
硬化處理後四面研磨與齒研
總齒距誤差 : $F_p / 1000 \leq 0.026$ mm
室溫在攝氏 25° 為準

Material S45C
Hardness HRC 50~55°
Ground on all sides after hardening.
Total Pitch Error: $F_p / 1000 \leq 0.026$ mm
Room Temperature is 25°C

型號 Code	模數 Module	L	齒數 No. of Teeth	B	A0	A1	D	l	孔數 No of Holes	A	ød1	øD	E	D1	l1	ød2	f	F _{ta} kN	KG
CSTGH02010-DIN5	2	1005.31	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.70	5.7	2	9.73	4.1
CSTGH03010-DIN5	3	1017.88	108	29	29	26	63.61	127.23	8	9	10	11	9	34.4	949.10	7.7	2	17.48	6.1
CSTGH04010-DIN5	4	1005.31	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.30	7.7	2	31.04	10.9
CSTGH05010-DIN5	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	17	13	37.5	945.00	11.7	3	48.37	17.2

CSTGH-DIN6



系列 CSTGH-DIN6 直齒齒研齒條
品質等級 DIN 6

Series CSTGH-DIN6 Straight Teeth Ground Racks
Quality Grade DIN 6

材料 S45C
硬度 HRC 50~55°
硬化處理後四面研磨與齒研
總齒距誤差：Fp /1000 ≤ 0.036 mm
Fp /2000 ≤ 0.047 mm (≤ 0.024/1000 mm)

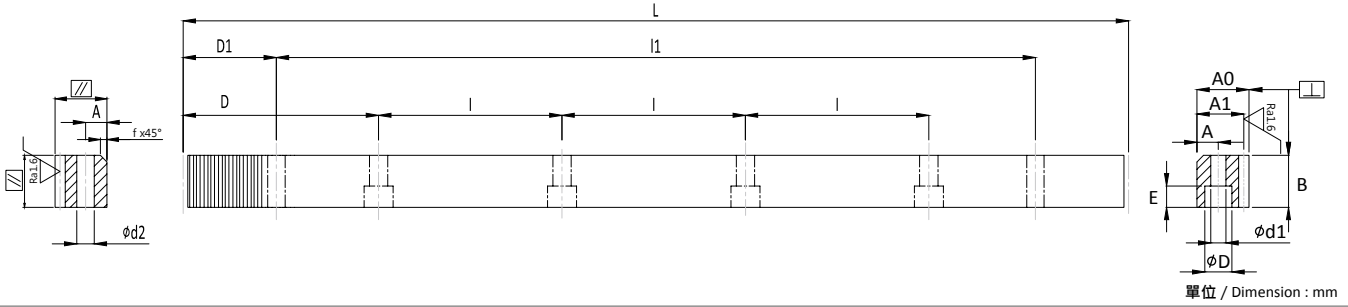
Material S45C
Hardness HRC 50~55°
Ground on all sides after hardening.
Total Pitch Error: Fp /1000 ≤ 0.036 mm
Fp /2000 ≤ 0.047 mm (≤ 0.024/1000 mm)

型號 Code	模數 Module	L	齒數 No. of Teeth	B	A0	A1	D	l	孔數 No of Holes	A	ød1	øD	E	D1	l1	ød2	f	F _{ta} kN	KG
CSTGH01505-DIN6	1.5	499.51	106	19	19	17.5	62.44	124.88	4	8	6	9.5	7	29.0	441.50	5.7	1.5	5.72	1.3
CSTGH01510-DIN6	1.5	999.03	212	19	19	17.5	62.44	124.88	8	8	6	9.5	7	29.0	941.00	5.7	1.5	5.81	2.6
CSTGH02005-DIN6	2	502.65	80	24	24	22	62.83	125.66	4	8	7	11	7	31.3	440.10	5.7	2	9.55	2.1
CSTGH02010-DIN6	2	1005.31	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.70	5.7	2	9.73	4.1
CSTGH02020-DIN6	2	2010.62	320	24	24	22	62.83	125.66	16	8	7	11	7	31.3	1948.00	5.7	2	9.83	8.2
CSTGH02505-DIN6	2.5	502.65	64	24	24	21.5	62.83	125.66	4	9	7	11	7	31.3	440.10	5.7	2	11.85	2.1
CSTGH02510-DIN6	2.5	1005.31	128	24	24	21.5	62.83	125.66	8	9	7	11	7	31.3	942.70	5.7	2	12.10	4.1
CSTGH02520-DIN6	2.5	2010.62	256	24	24	21.5	62.83	125.66	16	9	7	11	7	31.3	1948.00	5.7	2	12.25	8.2
CSTGH03005-DIN6	3	508.94	54	29	29	26	63.62	127.23	4	9	10	15	9	34.4	440.10	7.7	2	17.05	3.0
CSTGH03010-DIN6	3	1017.88	108	29	29	26	63.62	127.23	8	9	10	15	9	34.4	949.10	7.7	2	17.48	6.1
CSTGH03020-DIN6	3	2035.75	216	29	29	26	63.62	127.23	16	9	10	15	9	34.4	1967.00	7.7	2	17.73	12.2
CSTGH04005-DIN6	4	502.65	40	39	39	35	62.83	125.66	4	12	10	15	9	37.5	427.70	7.7	2	30.13	5.4
CSTGH04010-DIN6	4	1005.31	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.30	7.7	2	31.04	10.9
CSTGH04020-DIN6	4	2010.62	160	39	39	35	62.83	125.66	16	12	10	15	9	37.5	1935.60	7.7	2	31.63	21.7
CSTGH05005-DIN6	5	502.65	32	49	49	34	62.83	125.66	4	12	14	20	13	30.1	442.30	11.7	3	46.73	6.8
CSTGH05010-DIN6	5	1005.31	64	49	49	34	62.83	125.66	8	12	14	20	13	30.1	945.00	11.7	3	48.37	13.7
CSTGH05020-DIN6	5	2010.62	128	49	49	34	62.83	125.66	16	12	14	20	13	30.1	1950.40	11.7	3	49.42	27.3
CSTGH06005-DIN6	6	508.94	27	59	59	43	63.62	127.23	4	16	18	26	17	31.4	446.10	15.7	3	66.82	10.5
CSTGH06010-DIN6	6	1017.88	54	59	59	43	63.62	127.23	8	16	18	26	17	31.4	955.00	15.7	3	69.37	20.9
CSTGH06020-DIN6	6	2035.75	108	59	59	43	63.62	127.23	16	16	18	26	17	31.4	1973.00	15.7	3	71.11	41.8
CSTGH08005-DIN8	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.45	19.7	4	116.91	22.3
CSTGH08005-DIN8	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952.00	19.7	4	122.06	44.6
CSTGH08020-DIN8	8	2010.61	80	79	79	71	62.83	125.66	16	25	22	33	21	26.6	1957.40	19.7	4	125.76	89.1

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSTM-DIN8



單位 / Dimension : mm

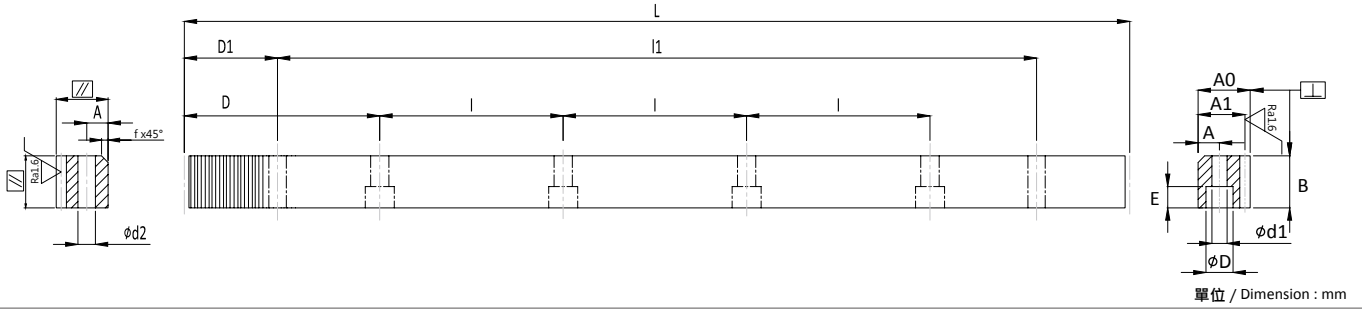
系列 CSTM-DIN8 直齒精銑齒條
品質等級 DIN 8

Series CSTM-DIN8 Straight Milled Racks
Quality Grade DIN 8

材料 S45C
硬度 HRC 10~12°
總齒距誤差 : $F_p / 1000 \leq 0.060 \text{ mm}$
 $F_p / 2000 \leq 0.080 \text{ mm}$

Material S45C
Hardness HRC 10~12°
Total Pitch Error: $F_p / 1000 \leq 0.060 \text{ mm}$
 $F_p / 2000 \leq 0.080 \text{ mm}$

型號 Code	模數 Module	L	齒數 No. of Teeth	B	A0	A1	D	I	孔數 No of Holes	A	ød1	øD	E	D1	l1	ød2	f	F _{ta} kN	KG
CSTM01510-DIN8	1.5	999.03	212	17	17	15.5	62.44	124.88	8	7	6	9.5	7	29	941.00	5.7	1.5	3.62	1.9
CSTM02010-DIN8	2	1005.31	160	25	24	22	62.83	125.66	8	8	7	11	7	31.3	942.70	5.7	2	7.07	4.1
CSTM02020-DIN8	2	2010.62	320	25	24	22	62.83	125.66	16	8	7	11	7	31.3	1948.00	5.7	2	7.15	8.1
CSTM03010-DIN8	3	1017.88	108	30	29	26	63.62	127.23	8	9	10	15	9	34.4	949.10	7.7	2	12.61	5.9
CSTM03020-DIN8	3	2035.75	216	30	29	26	63.62	127.23	16	9	10	15	9	34.4	1967.00	7.7	2	12.80	11.9
CSTM04010-DIN8	4	1005.31	80	40	39	35	62.83	125.66	8	12	10	15	9	37.5	930.30	7.7	2	22.21	10.5
CSTM04020-DIN8	4	2010.62	160	40	39	35	62.83	125.66	16	12	10	15	9	37.5	1935.60	7.7	2	22.63	21.0
CSTM05010-DIN8	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945.00	11.7	3	33.75	12.9
CSTM05020-DIN8	5	2010.62	128	49	39	34	62.83	125.66	16	12	14	20	13	30.1	1950.40	11.7	3	34.48	25.8
CSTM06010-DIN8	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.00	15.7	3	48.40	19.7
CSTM06020-DIN8	6	2035.75	108	59	49	43	63.62	127.23	16	16	18	26	17	31.4	1973.00	15.7	3	49.61	39.5
CSTM08010-DIN8	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952.00	19.7	4	85.17	42.1
CSTM08020-DIN8	8	2010.61	80	79	79	71	62.83	125.66	16	25	22	33	21	26.6	1957.40	19.7	4	87.75	84.2
CSTM10010-DIN8	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.67	754.00	19.7	5	131.75	66.1



系列 CSTMQ-DIN8 直齒精銑調質齒條
品質等級 DIN 8

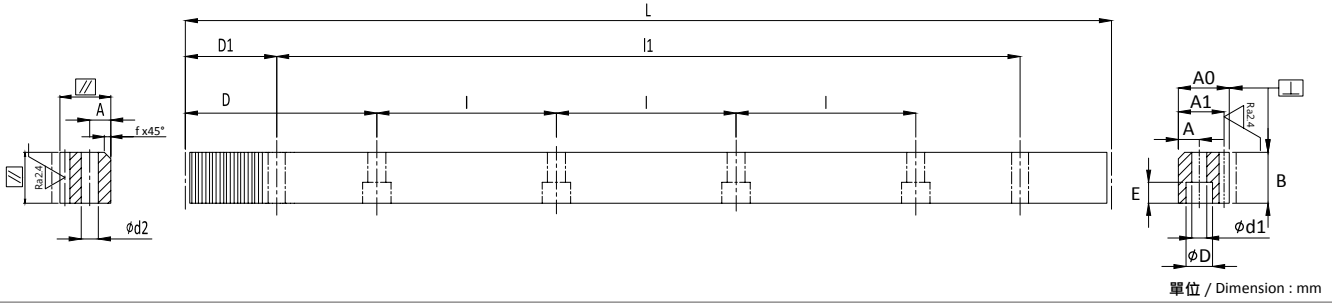
Series CSTMQ-DIN8 Straight Milled Quenched & Tempered Racks
Quality Grade DIN 8

材料 S45C
硬度 HRC 18~20°
總齒距誤差： $F_p / 1000 \leq 0.060 \text{ mm}$
 $F_p / 2000 \leq 0.080 \text{ mm}$

Material S45C
Hardness HRC 18~20°
Total Pitch Error: $F_p / 1000 \leq 0.060 \text{ mm}$
 $F_p / 2000 \leq 0.080 \text{ mm}$

型號 Code	模數 Module	L	齒數 No. of Teeth	B	A0	A1	D	l	孔數 No of Holes	A	φd1	φD	E	D1	l1	φd2	f	F _{ta} kN	KG
CSTMQ01510-DIN8	1.5	999.03	212	17	17	15.5	62.44	124.88	8	7	6	9.5	7	29	941.00	5.7	1.5	4.40	1.9
CSTMQ02010-DIN8	2	1005.31	160	25	24	22	62.83	125.66	8	8	7	11	7	31.3	942.70	5.7	2	8.58	4.1
CSTMQ02020-DIN8	2	2010.62	320	25	24	22	62.83	125.66	16	8	7	11	7	31.3	1948.00	5.7	2	8.67	8.1
CSTMQ03010-DIN8	3	1017.88	108	30	29	26	63.62	127.23	8	9	10	15	9	34.4	949.10	7.7	2	15.30	5.9
CSTMQ03020-DIN8	3	2035.75	216	30	29	26	63.62	127.23	16	9	10	15	9	34.4	1967.00	7.7	2	15.52	11.9
CSTMQ04010-DIN8	4	1005.31	80	40	39	35	62.83	125.66	8	12	10	15	9	37.5	930.30	7.7	2	26.94	10.5
CSTMQ04020-DIN8	4	2010.62	160	40	39	35	62.83	125.66	16	12	10	15	9	37.5	1935.60	7.7	2	27.45	21.0
CSTMQ05010-DIN8	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945.00	11.7	3	40.93	12.9
CSTMQ05020-DIN8	5	2010.62	128	49	39	34	62.83	125.66	16	12	14	20	13	30.1	1950.40	11.7	3	41.82	25.8
CSTMQ06010-DIN8	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.00	15.7	3	58.70	19.7
CSTMQ06020-DIN8	6	2035.75	108	59	49	43	63.62	127.23	16	16	18	26	17	31.4	1973.00	15.7	3	60.17	39.5
CSTMQ08010-DIN8	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952.00	19.7	4	103.28	42.1
CSTMQ08020-DIN8	8	2010.61	80	79	79	71	62.83	125.66	16	25	22	33	21	26.6	1957.30	19.7	4	106.42	84.2
CSTMQ10010-DIN8	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.67	753.96	19.7	5	159.78	66.1

CSTMH-DIN10



單位 / Dimension : mm

系列 CSTMH-DIN10 直齒硬化齒條
品質等級 DIN 10

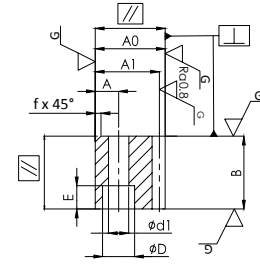
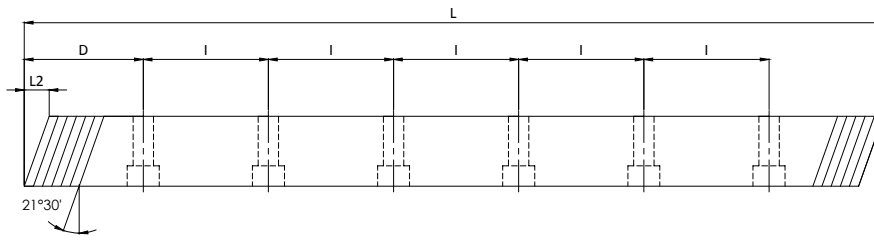
Series CSTMH-DIN10 Straight Hardened Racks
Quality Grade 10

材料 S45C
硬度 HRC 50~55°
表面經噴砂或磷酸鹽處理
總齒距誤差 : $F_p / 1000 \leq 0.15$ mm

Material S45C
Hardness HRC 50~55°
Surfaces are sandblasted or phosphated.
Total Pitch Error: $F_p / 1000 \leq 0.15$ mm

型號 Code	模數 Module	L	齒數 No. of Teeth	B	A0	A1	D	l	孔數 No of Holes	A	ød1	øD	E	D1	l1	ød2	f	F _{ta} kN	KG
CSTMH01510-DIN10	1.5	999.03	212	17	17	15.5	62.44	124.88	8	7	6	9.5	7	29	941.00	5.7	1.5	3.81	1.9
CSTMH02010-DIN10	2	1005.31	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.70	5.7	2	7.14	3.9
CSTMH02020-DIN10	2	2010.62	320	24	24	22	62.83	125.66	16	8	7	11	7	31.3	1948.00	5.7	2	7.21	7.8
CSTMH03010-DIN10	3	1017.88	108	29	29	26	63.62	127.23	8	9	10	15	9	34.4	949.10	7.7	2	12.82	5.8
CSTMH03020-DIN10	3	2035.75	216	29	29	26	63.62	127.23	16	9	10	15	9	34.4	1967.00	7.7	2	13.00	11.5
CSTMH04010-DIN10	4	1005.31	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.30	7.7	2	22.76	10.3
CSTMH04020-DIN10	4	2010.62	160	39	39	35	62.83	125.66	16	12	10	15	9	37.5	1935.60	7.7	2	23.20	20.5
CSTMH05010-DIN10	5	1005.31	64	49	49	34	62.83	125.66	8	12	14	20	13	30.1	945.00	11.7	3	35.47	12.9
CSTMH05020-DIN10	5	2010.62	128	49	49	34	62.83	125.66	16	12	14	20	13	30.1	1950.30	11.7	3	50.84	25.8
CSTMH06010-DIN10	6	1017.88	54	59	59	43	63.62	127.23	8	16	18	26	17	31.4	955.00	15.7	3	50.87	19.7
CSTMH06020-DIN10	6	2035.75	108	59	59	43	63.62	127.23	16	16	18	26	17	31.4	1973.00	15.7	3	52.15	39.5
CSTMH08010-DIN10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952.00	19.7	4	89.51	42.1
CSTMH10010-DIN10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7	4	138.47	66.1

MHTGQ-JIS1



單位 / Dimension : mm

系列 MHTGQ-JIS1 斜齒調質齒研齒條
品質等級 JIS 1

材料 SCM440
右旋角 21°30'
硬度 HRC 18~22°
總齒距誤差 : $F_p/1000 \leq 0.033\text{mm}$
調質處理後四面研磨與齒研
無鑽孔處理 · 品號為 -N

Series MHTGQ-JIS1 Helical Quenched & Tempered Ground Racks
Quality Grade JIS 1

Material SCM440
Right Hand Angle 21°30'
Hardness: HRC 18~22°
Total Pitch Error: $F_p/1000 \leq 0.033\text{mm}$
Ground on all sides after quenching.
No Mounted Holes , Code with-N

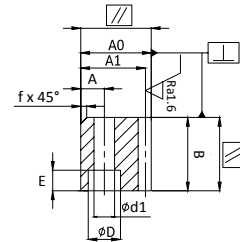
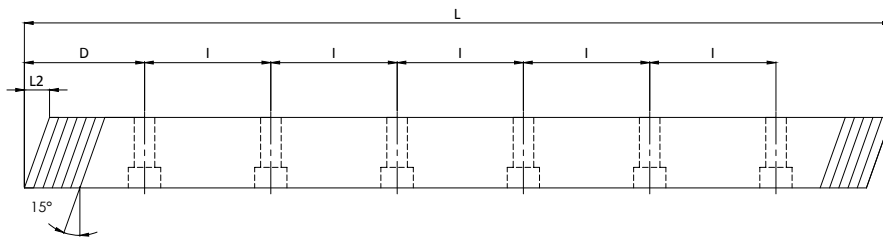
型號 Code	模數 Module	L	L2	齒數 No. of Teeth	B	A0	A1	D	I	孔數 No of Holes	螺絲 Screw	A	ød1	øD	E	f	F _{ta} kN	KG
MHTGQ01010-JIS1	1	1002.75	3.38	296	8	15	14	52.95	180	4	M4	6	4.5	8	4.4	1.5	2.63	0.4
MHTGQ01010-JIS1-N	1	1002.75	3.38	296	8	15	14	*	*	*	*	*	*	*	*	1.5	2.63	0.4
MHTGQ01510-JIS1	1.5	1002.53	5.07	197	12	20	18.5	53.63	180	4	M5	8	6	10	6.0	1.5	5.86	0.9
MHTGQ01510-JIS1-N	1.5	1002.53	5.07	197	12	20	18.5	*	*	*	*	*	*	*	*	1.5	5.86	0.9
MHTGQ02010-JIS1	2	1005.74	6.30	148	16	25	23	56.47	180	6	M6	10	7	11	7.0	2	10.53	2.9
MHTGQ02010-JIS1-N	2	1005.74	6.30	148	16	25	23	*	*	*	*	*	*	*	*	2	10.53	2.9
MHTGQ02510-JIS1	2.5	1013.92	7.88	118	20	30	27.5	56.46	180	6	M8	12	9	14	8.6	2	16.37	4.3
MHTGQ02510-JIS1-N	2.5	1013.92	7.88	118	20	30	27.5	*	*	*	*	*	*	*	*	2	16.37	4.3
MHTGQ03010-JIS1	3	1002.48	9.85	99	25	35	32	56.7	180	6	M10	14	11	18	10.8	2	24.44	6.2
MHTGQ03010-JIS1-N	3	1002.48	9.85	99	25	35	32	*	*	*	*	*	*	*	*	2	24.44	6.2



※ 重量僅供參考 · 實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CHTM-JIS4



單位 / Dimension : mm

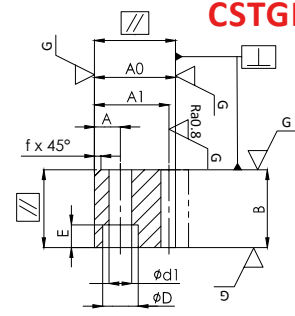
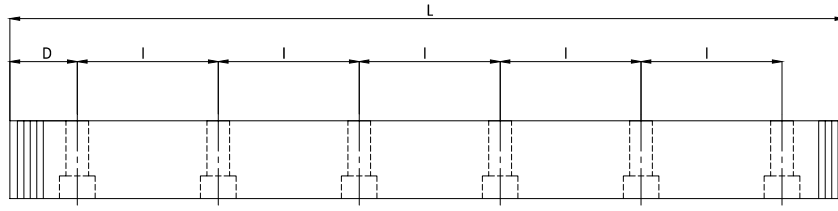
系列 CHTM-JIS4 斜齒齒條
品質等級 JIS 4

Series CHTM-JIS4 Helical Racks
Quality Grade JIS 4

材料 S45C
右旋角 15°
硬度 HRC 10~12°
總齒距誤差 : $F_p/1000 \leq 0.075\text{mm}$
無鑽孔處理 · 品號為 -N
可提供表面染黑處理

Material S45C
Right Hand Angle 15°
Hardness: HRC 10~12°
Total Pitch Error: $F_p/1000 \leq 0.075\text{mm}$
No Mounted Holes , Code with -N
Black-coated is available upon request

型號 Code	模數 Module	L	L2	齒數 No. of Teeth	B	A0	A1	D	I	孔數 No of Holes	螺絲 Screw	A	φd1	φD	E	f	F _{ta} kN	KG
CHTM02010-JIS4	2	1001.94	6.7	153	25	25	23	57	180	6	M6	10	7	11	7	2	8.86	4.5
CHTM02010-JIS4-N	2	1001.94	6.7	153	25	25	23	*	*	*	*	*	*	*	*	2	8.86	4.6
CHTM03010-JIS4	3	1004.62	9.38	102	35	35	32	57	180	6	M10	14	11	17.5	10.8	2	18.43	8.7
CHTM03010-JIS4-N	3	1004.62	9.38	102	35	35	32	*	*	*	*	*	*	*	*	2	18.43	8.8



單位 / Dimension : mm

系列 CSTGH-JIS2 直齒齒研齒條
品質等級 JIS 2

材料 S45C
硬度 HRC 50~55°
硬化處理後四面研磨與齒研
總齒距誤差 : $F_p/1000 \leq 0.036$ mm
無鑽孔處理 · 品號為 -N
可提供表面染黑處理

Series CSTGH-JIS2 Straight Teeth Ground Racks
Quality Grade JIS 2

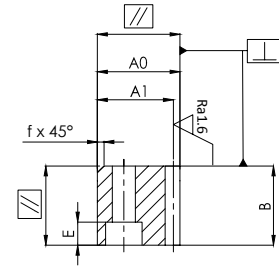
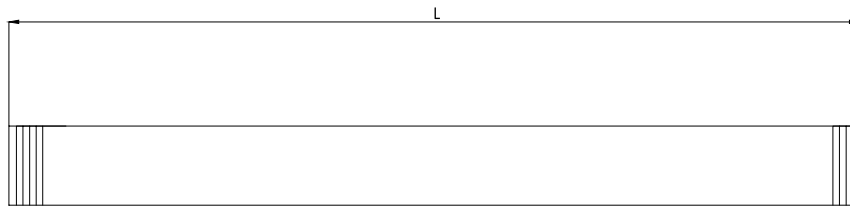
Material S45C
Hardness HRC 50~55°
Ground on all sides after hardening.
Total Pitch Error: $F_p/1000 \leq 0.036$ mm
No Mounted Holes , Code with-N
Black-coated is available upon request

型號 Code	模數 Module	L	齒數 No. of Teeth	B	A0	A1	D	l	孔數 No of Holes	螺絲 Screw	A	φd1	φD	E	f	F _{ta} kN	KG
CSTGH01005-JIS2	1	499.51	159	10	12	11	24.76	150	4	M4	5	4.5	*	*	1.5	2.03	0.4
CSTGH01005-JIS2-N	1	499.51	159	10	12	11	*	*	*	*	*	*	*	*	1.5	2.03	0.4
CSTGH01505-JIS2	1.5	499.51	106	15	20	18.5	24.76	150	4	M5	8	6	10	6	1.5	4.52	1.1
CSTGH01505-JIS2-N	1.5	499.51	106	15	20	18.5	*	*	*	*	*	*	*	*	1.5	4.52	1.1
CSTGH01510-JIS2	1.5	999.03	212	15	20	18.5	49.51	180	6	M5	8	6	10	6	1.5	4.58	2.1
CSTGH01510-JIS2-N	1.5	999.03	212	15	20	18.5	*	*	*	*	*	*	*	*	1.5	4.58	2.1
CSTGH02005-JIS2	2	502.65	80	20	25	23	26.33	150	4	M6	10	7	11	7	2	7.96	1.8
CSTGH02005-JIS2-N	2	502.65	80	20	25	23	*	*	*	*	*	*	*	*	2	7.96	1.8
CSTGH02010-JIS2	2	1005.31	160	20	25	23	52.65	180	6	M6	10	7	11	7	2	8.11	3.6
CSTGH02010-JIS2-N	2	1005.31	160	20	25	23	*	*	*	*	*	*	*	*	2	8.11	3.6
CSTGH02505-JIS2	2.5	502.65	64	25	30	27.5	26.33	150	4	M8	12	9	14	8.6	2	12.34	2.7
CSTGH02505-JIS2-N	2.5	502.65	64	25	30	27.5	*	*	*	*	*	*	*	*	2	12.34	2.7
CSTGH02510-JIS2	2.5	1005.31	128	25	30	27.5	52.65	180	6	M8	12	9	14	8.6	2	12.61	5.4
CSTGH02510-JIS2-N	2.5	1005.31	128	25	30	27.5	*	*	*	*	*	*	*	*	2	12.61	5.4
CSTGH03005-JIS2	3	499.51	53	30	35	32	24.76	150	4	M10	14	11	17.5	10.8	2	17.63	3.7
CSTGH03005-JIS2-N	3	499.51	53	30	35	32	*	*	*	*	*	*	*	*	2	17.63	3.7
CSTGH03010-JIS2	3	999.03	106	30	35	32	49.51	180	6	M10	14	11	17.5	10.8	2	18.07	7.5
CSTGH03010-JIS2-N	3	999.03	106	30	35	32	*	*	*	*	*	*	*	*	2	18.07	7.5
CSTGH04005-JIS2	4	502.65	40	45	45	41	26.33	150	4	M12	18	14	20	13	2	34.76	6.4
CSTGH04005-JIS2-N	4	502.65	40	45	45	41	*	*	*	*	*	*	*	*	2	34.76	7.2
CSTGH04010-JIS2	4	1005.31	80	45	45	41	52.65	180	6	M12	18	14	20	13	2	35.82	12.9
CSTGH04010-JIS2-N	4	1005.31	80	45	45	41	*	*	*	*	*	*	*	*	2	35.82	14.5
CSTGH05005-JIS2	5	502.65	32	50	50	45	31.33	220	3	M14	20	16	23	15.2	3	47.68	8.9
CSTGH05005-JIS2-N	5	502.65	32	50	50	45	*	*	*	*	*	*	*	*	3	47.68	8.9
CSTGH05010-JIS2	5	1005.31	64	50	50	45	62.65	220	5	M14	20	16	23	15.2	3	49.36	17.9
CSTGH05010-JIS2-N	5	1005.31	64	50	50	45	*	*	*	*	*	*	*	*	3	49.36	17.9
CSTGH06005-JIS2	6	490.09	26	60	60	54	25.04	220	3	M16	23	18	26	17.5	3	67.80	12.5
CSTGH06005-JIS2-N	6	490.09	26	60	60	54	*	*	*	*	*	*	*	*	3	67.80	12.5
CSTGH06010-JIS2	6	999.03	53	60	60	54	59.51	220	5	M16	23	18	26	17.5	3	70.51	25.5
CSTGH06010-JIS2-N	6	999.03	53	60	60	54	*	*	*	*	*	*	*	*	3	70.51	25.5

※ 重量僅供參考 · 實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSTMQ-JIS4-N



單位 / Dimension : mm

系列 MSTMQ-JIS4-N 直齒調質齒條
品質等級 JIS 4

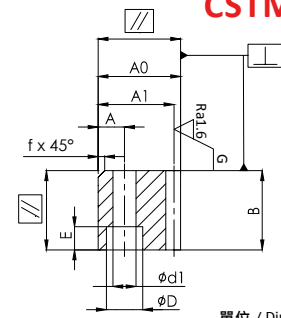
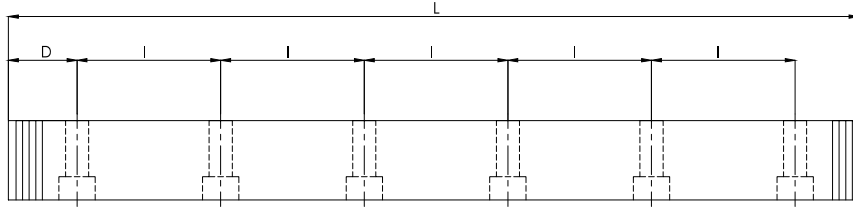
Series MSTMQ-JIS4-N Straight Quenched & Tempered Racks
Quality Grade JIS 4

材料 SCM440
硬度 HRC 18~22°
總齒距誤差： $F_p/1000 \leq 0.075\text{mm}$
無鑽孔處理，品號為 -N
可提供表面染黑處理

Material SCM440
Hardness: HRC 18~22°
Total Pitch Error: $F_p/1000 \leq 0.075\text{mm}$
No Mounted Holes, Code with -N
Black-coated is available upon request

型號 Code	模數 Module	L	齒數 No. of Teeth	B	A0	A1	f	F_{ta} kN	KG
MSTMQ01510-JIS4-N	1.5	999.03	212	15	20	18.5	1.5	5.36	2.1
MSTMQ02010-JIS4-N	2	1005.31	160	20	25	23	2	9.48	3.6
MSTMQ02510-JIS4-N	2.5	1005.31	128	25	30	27.5	2	14.73	5.4
MSTMQ03010-JIS4-N	3	999.03	106	30	35	32	2	21.12	7.5
MSTMQ04010-JIS4-N	4	1005.31	80	45	45	41	2	41.86	14.5
MSTMQ05010-JIS4-N	5	1005.31	64	50	50	45	3	57.68	17.9
MSTMQ06010-JIS4-N	6	999.03	53	60	60	54	3	82.40	25.5

CSTM-JIS4



單位 / Dimension : mm

系列 CSTM-JIS4 直齒齒條
品質等級 JIS 4

Series CSTM-JIS4 Straight Milled Racks
Quality Grade JIS 4

材料 S45C
硬度 HRC 10~12°
總齒距誤差 : $F_p/1000 \leq 0.075\text{mm}$
無鑽孔處理 · 品號為 -N
可提供表面染黑處理

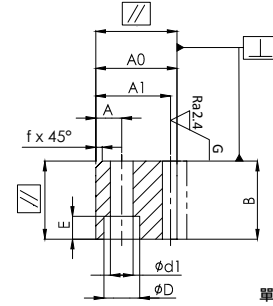
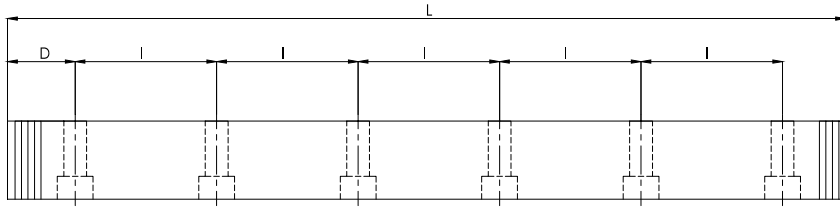
Material S45C
Hardness: Soft HRC 10~12°
Total Pitch Error: $F_p/1000 \leq 0.075\text{mm}$
No Mounted Holes , Code with-N
Black-coated is available upon request

型號 Code	模數 Module	L	齒數 No. of Teeth	B	A0	A1	D	l	孔數 No of Holes	螺絲 Screw	A	φd1	φD	E	f	F _{ta} kN	KG
CSTM01510-JIS4	1.5	999.03	212	15	20	18.5	49.51	180	6	M5	8	6	10	6	1.5	3.20	2.1
CSTM01510-JIS4-N	1.5	999.03	212	15	20	18.5	*	*	*	*	*	*	*	*	1.5	3.20	2.1
CSTM01511-JIS4-N	1.5	999.03	212	15	15	13.5	*	*	*	*	*	*	*	*	1.5	3.20	1.6
CSTM01520-JIS4-N	1.5	2049.88	435	15	20	18.5	*	*	*	*	*	*	*	*	1.5	3.20	4.4
CSTM02010-JIS4	2	1005.31	160	20	25	23	52.65	180	6	M6	10	7	11	7	2	5.66	3.6
CSTM02010-JIS4-N	2	1005.31	160	20	25	23	*	*	*	*	*	*	*	*	2	5.66	3.6
CSTM02011-JIS4	2	1005.31	160	20	20	18	52.65	180	6	M6	7	7	11	7	2	5.66	2.9
CSTM02011-JIS4-N	2	1005.31	160	20	20	18	*	*	*	*	*	*	*	*	2	5.66	2.9
CSTM02020-JIS4	2	2048.31	326	20	25	23	34.15	180	12	M6	10	7	11	7	2	5.72	7.3
CSTM02020-JIS4-N	2	2048.31	326	20	25	23	*	*	*	*	*	*	*	*	2	5.72	7.3
CSTM02021-JIS4-N	2	2048.31	326	20	20	18	*	*	*	*	*	*	*	*	2	5.72	5.8
CSTM02510-JIS4	2.5	1005.31	128	25	30	27.5	52.65	180	6	M8	12	9	14	8.6	2	8.80	5.4
CSTM02510-JIS4-N	2.5	1005.31	128	25	30	27.5	*	*	*	*	*	*	*	*	2	8.80	5.4
CSTM02511-JIS4	2.5	1005.31	128	25	25	22.5	52.65	180	6	M8	9	9	14	8.6	2	8.80	4.5
CSTM02511-JIS4-N	2.5	1005.31	128	25	25	22.5	*	*	*	*	*	*	*	*	2	8.80	4.5
CSTM02520-JIS4	2.5	2049.88	261	25	30	27.5	34.94	180	12	M8	12	9	14	8.6	2	8.91	10.9
CSTM02520-JIS4-N	2.5	2049.88	261	25	30	27.5	*	*	*	*	*	*	*	*	2	8.91	10.9
CSTM02521-JIS4-N	2.5	2049.88	261	25	25	22.5	*	*	*	*	*	*	*	*	2	8.91	9.1
CSTM03010-JIS4	3	999.03	106	30	35	32	49.51	180	6	M10	14	11	17.5	10.8	2	12.61	7.5
CSTM03010-JIS4-N	3	999.03	106	30	35	32	*	*	*	*	*	*	*	*	2	12.61	7.5
CSTM03011-JIS4	3	999.03	106	30	30	27	49.51	180	6	M10	11	11	17.5	10.8	2	12.61	6.4
CSTM03011-JIS4-N	3	999.03	106	30	30	27	*	*	*	*	*	*	*	*	2	12.61	6.4
CSTM03020-JIS4	3	2045.17	217	30	35	32	32.58	180	12	M10	14	11	17.5	10.8	2	12.80	15.3
CSTM03020-JIS4-N	3	2045.17	217	30	35	32	*	*	*	*	*	*	*	*	2	12.80	15.3
CSTM03021-JIS4-N	3	2045.17	217	30	30	27	*	*	*	*	*	*	*	*	2	12.80	13.1
CSTM04010-JIS4	4	1005.31	80	40	45	41	52.65	180	6	M12	18	14	20	13	2	22.21	12.9
CSTM04010-JIS4-N	4	1005.31	80	40	45	41	*	*	*	*	*	*	*	*	2	22.21	12.9
CSTM04011-JIS4	4	1005.31	80	40	40	36	52.65	180	6	M12	15	14	20	13	2	22.21	11.4
CSTM04010-JIS4-N	4	1005.31	80	40	40	36	*	*	*	*	*	*	*	*	2	22.21	11.4
CSTM04020-JIS4	4	2048.31	163	40	45	41	34.15	180	12	M12	18	14	20	13	2	22.63	26.2
CSTM04020-JIS4-N	4	2048.31	163	40	45	41	*	*	*	*	*	*	*	*	2	22.63	26.2
CSTM05010-JIS4	5	1005.31	64	50	50	45	62.65	220	5	M14	20	16	23	15.2	3	34.44	17.9
CSTM05010-JIS4-N	5	1005.31	64	50	50	45	*	*	*	*	*	*	*	*	3	34.44	17.9
CSTM05020-JIS4	5	2042.04	130	50	50	45	31.02	220	10	M14	20	16	23	15.2	3	35.20	36.3
CSTM05020-JIS4-N	5	2042.04	130	50	50	45	*	*	*	*	*	*	*	*	3	35.20	36.3
CSTM06010-JIS4	6	999.03	53	60	60	54	59.51	220	5	M16	23	18	26	17.5	3	49.19	25.5
CSTM06010-JIS4-N	6	999.03	53	60	60	54	*	*	*	*	*	*	*	*	3	49.19	25.5
CSTM06020-JIS4	6	2035.75	108	60	60	54	27.88	220	10	M16	23	18	26	17.5	3	50.46	52.1
CSTM06020-JIS4-N	6	2035.75	108	60	60	54	*	*	*	*	*	*	*	*	3	50.46	52.1

※ 重量僅供參考 · 實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSTMH-JIS5



單位 / Dimension : mm

系列 CSTMH-JIS5 直齒高週波齒條
品質等級 JIS 5

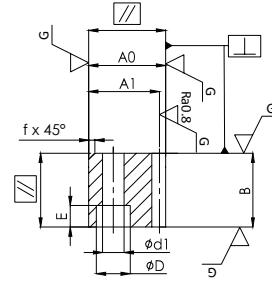
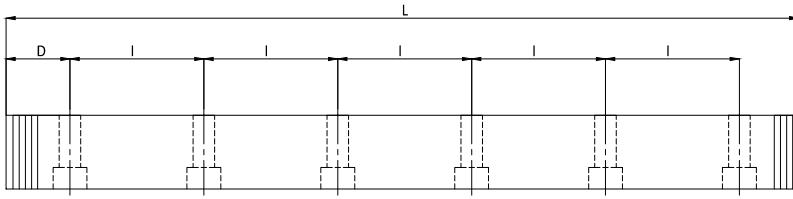
Series CSTMH-JIS5 Straight Hardened Racks
Quality Grade JIS 5

材料 S45C
硬度 HRC 50~55°
總齒距誤差 $F_p/1000 \leq 0.15\text{mm}$
無鑽孔處理 · 品號為 -N
可提供表面染黑處理

Material S45C
Hardness HRC 50~55°
Total Pitch Error: $F_p/1000 \leq 0.15\text{mm}$
No Mounted Holes , Code with-N
Black-coated is available upon request

型號 Code	模數 Module	L	齒數 No. of Teeth	B	A0	A1	D	I	孔數 No of Holes	螺絲 Screw	A	φd1	φD	E	f	F _{ta} kN	KG
CSTMH01510-JIS5	1.5	999.03	212	15	20	18.5	49.51	180	6	M5	8	6	10	6	1.5	3.60	2.1
CSTMH01510-JIS5-N	1.5	999.03	212	15	20	18.5	*	*	*	*	*	*	*	*	1.5	3.60	2.1
CSTMH01511-JIS5-N	1.5	999.03	212	15	15	13.5	*	*	*	*	*	*	*	*	1.5	3.60	1.6
CSTMH01520-JIS5-N	1.5	2049.88	435	15	20	18.5	*	*	*	*	*	*	*	*	1.5	3.63	4.4
CSTMH02010-JIS5	2	1005.31	160	20	25	23	52.65	180	6	M6	10	7	11	7	2	6.37	3.6
CSTMH02010-JIS5-N	2	1005.31	160	20	25	23	*	*	*	*	*	*	*	*	2	6.37	3.6
CSTMH02011-JIS5-N	2	1005.31	160	20	20	18	*	*	*	*	*	*	*	*	2	6.37	2.9
CSTMH02020-JIS5-N	2	2048.31	326	20	25	23	*	*	*	*	*	*	*	*	2	6.44	7.3
CSTMH02021-JIS5-N	2	2048.31	326	20	20	18	*	*	*	*	*	*	*	*	2	6.44	5.8
CSTMH02510-JIS5	2.5	1005.31	128	25	30	27.5	52.65	180	6	M8	12	9	14	8.6	2	9.91	5.4
CSTMH02510-JIS5-N	2.5	1005.31	128	25	30	27.5	*	*	*	*	*	*	*	*	2	9.91	5.4
CSTMH02511-JIS5-N	2.5	1005.31	128	25	25	22.5	*	*	*	*	*	*	*	*	2	9.91	4.5
CSTMH02520-JIS5-N	2.5	2049.88	261	25	30	27.5	*	*	*	*	*	*	*	*	2	10.30	10.9
CSTMH02521-JIS5-N	2.5	2049.88	261	25	25	22.5	*	*	*	*	*	*	*	*	2	10.30	9.1
CSTMH03010-JIS5	3	999.03	106	30	35	32	49.51	180	6	M10	14	11	17.5	10.8	2	14.20	7.5
CSTMH03010-JIS5-N	3	999.03	106	30	35	32	*	*	*	*	*	*	*	*	2	14.20	7.5
CSTMH03011-JIS5-N	3	999.03	106	30	30	27	*	*	*	*	*	*	*	*	2	14.20	6.4
CSTMH03020-JIS5-N	3	2045.17	217	30	35	32	*	*	*	*	*	*	*	*	2	14.41	15.3
CSTMH03021-JIS5-N	3	2045.17	217	30	30	27	*	*	*	*	*	*	*	*	2	14.41	13.1
CSTMH04010-JIS5	4	1005.31	80	40	45	41	52.65	180	6	M12	18	14	20	13	2	25.02	12.9
CSTMH04010-JIS5-N	4	1005.31	80	40	45	41	*	*	*	*	*	*	*	*	2	25.02	12.9
CSTMH04010-JIS5-N	4	1005.31	80	40	40	36	*	*	*	*	*	*	*	*	2	25.02	11.4
CSTMH04020-JIS5-N	4	2048.31	163	40	45	41	*	*	*	*	*	*	*	*	2	25.49	26.2
CSTMH05010-JIS5	5	1005.31	64	50	50	45	62.65	180	5	M14	20	16	23	15.2	3	38.78	17.9
CSTMH05010-JIS5-N	5	1005.31	64	50	50	45	*	*	*	*	*	*	*	*	3	38.78	17.9
CSTMH05020-JIS5-N	5	2042.04	130	50	50	45	*	*	*	*	*	*	*	*	3	39.64	36.3
CSTMH06010-JIS5	6	999.03	53	60	60	54	59.51	180	5	M16	23	18	26	17.5	3	55.40	25.5
CSTMH06010-JIS5-N	6	999.03	53	60	60	54	*	*	*	*	*	*	*	*	3	55.40	25.5
CSTMH06020-JIS5-N	6	2035.75	108	60	60	54	*	*	*	*	*	*	*	*	3	56.82	52.1

MSTGQ-CP-JIS1



單位 / Dimension : mm

系列 MSTGQ-CP-JIS1 直齒調質齒研齒條
品質等級 JIS 1

Series MSTGQ-CP-JIS1 Straight Quenched & Tempered Ground Racks
Quality Grade JIS 1

材料 SCM440
硬度 HRC 18~22°
總齒距誤差 : $F_p/1000 \leq 0.033\text{mm}$
調質處理後四面研磨與齒研
無鑽孔處理 · 品號為 -N
室溫在攝氏 25° 為準

Material SCM440
Hardness: HRC 18~22°
Total Pitch Error: $F_p/1000 \leq 0.033\text{mm}$
Ground on all sides after quenching.
No Mounted Holes , Code with-N
Room Temperature is 25°C

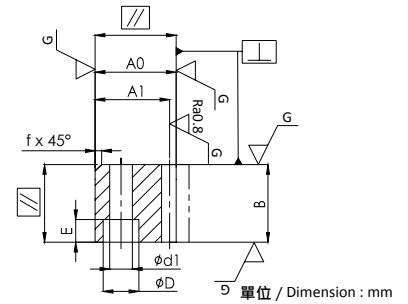
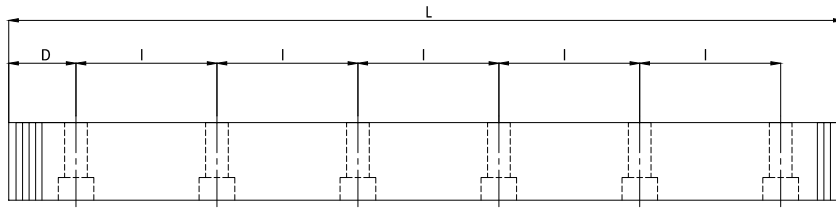
型號 Code	周節 CP	模數 Module	L	齒數 No. of Teeth	B	A0	A1	D	l	孔數 No of Holes	螺絲 Screw	A	$\phi d1$	ϕD	E	f	F_{ta} kN	KG
MSTGQ-CP-05005-JIS1	5	1.5915	500	100	15	20	18.41	40	140	4	M5	8	6	10	6	1.5	6.61	1.1
MSTGQ-CP-05005-JIS1-N	5	1.5915	500	100	15	20	18.41	*	*	*	*	*	*	*	*	1.5	6.61	1.1
MSTGQ-CP-05010-JIS1-N	5	1.5915	1000	200	15	20	18.41	*	*	*	*	*	*	*	*	1.5	6.71	2.1
MSTGQ-CP-10005-JIS1	10	3.1831	500	50	30	35	31.82	40	140	4	M10	14	11	17.5	10.8	1.5	25.76	3.7
MSTGQ-CP-10005-JIS1-N	10	3.1831	500	50	30	35	31.82	*	*	*	*	*	*	*	*	1.5	25.76	3.7
MSTGQ-CP-10010-JIS1-N	10	3.1831	1000	100	30	35	31.82	*	*	*	*	*	*	*	*	1.5	26.44	7.5

直齒 Straight JIS

※ 重量僅供參考 · 實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSTGH-CP-JIS1



系列 MSTGH-CP-JIS1 直齒齒研齒條
品質等級 JIS 1

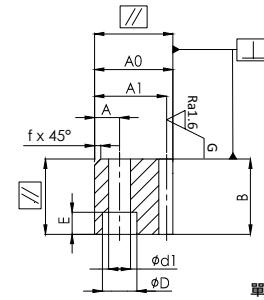
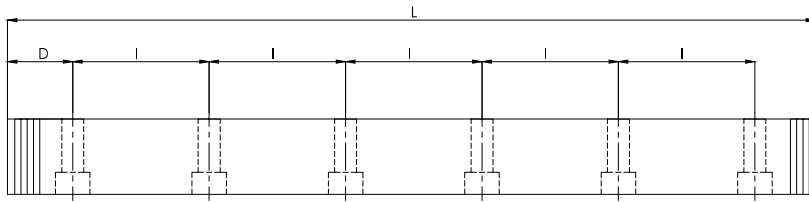
Series MSTGH-CP-JIS1 Straight Teeth Ground Racks
Quality Grade JIS 1

材料 SCM440
硬度 HRC 55~58°
硬化處理後四面研磨與齒研
總齒距誤差： $F_p/1000 \leq 0.033\text{mm}$
無鑽孔處理，品號為 -N
室溫在攝氏 25° 為準

Material SCM440
Hardness HRC 55~58°
Ground on all sides after hardening.
Total Pitch Error: $F_p/1000 \leq 0.033\text{mm}$
No Mounted Holes, Code with-N
Room Temperature is 25°

型號 Code	周節 CP	模數 Module	L	齒數 No. of Teeth	B	A0	A1	D	l	孔數 No of Holes	螺絲 Screw	A	φd1	φD	E	f	F _{ta} kN	KG
MSTGH-CP-05005-JIS1	5	1.5915	500	100	15	20	18.41	25	150	4	M5	8	6	10	6	1.5	6.61	1.1
MSTGH-CP-05005-JIS1-N	5	1.5915	500	100	15	20	18.41	*	*	*	*	*	*	*	*	1.5	6.61	1.1
MSTGH-CP-05010-JIS1	5	1.5915	1000	200	15	20	18.41	50	180	6	M5	8	6	10	6	1.5	6.71	2.1
MSTGH-CP-05010-JIS1-N	5	1.5915	1000	200	15	20	18.41	*	*	*	*	*	*	*	*	1.5	6.71	2.1
MSTGH-CP-10005-JIS1	10	3.1831	500	50	30	35	31.82	25	150	4	M10	14	11	17.5	10.8	1.5	25.76	3.7
MSTGH-CP-10005-JIS1-N	10	3.1831	500	50	30	35	31.82	*	*	*	*	*	*	*	*	1.5	25.76	3.7
MSTGH-CP-10010-JIS1	10	3.1831	1000	100	30	35	31.82	50	180	6	M10	14	11	17.5	10.8	1.5	26.44	7.5
MSTGH-CP-10010-JIS1-N	10	3.1831	1000	100	30	35	31.82	*	*	*	*	*	*	*	*	1.5	26.44	7.5

CSTM-CP-JIS4



單位 / Dimension : mm

系列 CSTM-CP-JIS4 直齒精銑齒條
品質等級 JIS 4

Series CSTM-CP-JIS4 Straight Milled Racks
Quality Grade JIS 4

材料 S45C
硬度 HRC 10~12°
總齒距誤差 : $F_p / 1000 \leq 0.075\text{mm}$
無鑽孔處理 · 品號為 -N
可提供表面染黑處理

Material S45C
Hardness: Soft HRC 10~12°
Total Pitch Error: $F_p / 1000 \leq 0.075\text{mm}$
No Mounted Holes , Code with-N
Black-coated is available upon request

型號 Code	周節 CP	模數 Module	L	齒數 No. of Teeth	B	A0	A1	D	l	孔數 No of Holes	螺絲 Screw	A	ød1	øD	E	f	F _{ta} kN	KG
CSTM-CP-05005-JIS4-N	5	1.5915	500	100	15	20	18.41	*	*	*	*	*	*	*	*	1	3.34	1.1
CSTM-CP-05010-JIS4	5	1.5915	1000	200	15	20	18.41	50	180	6	M5	18.41	6	10	6	1	3.39	2.0
CSTM-CP-05010-JIS4-N	5	1.5915	1000	200	15	20	18.41	*	*	*	*	*	*	*	*	1	3.39	2.1
CSTM-CP-05015-JIS4	5	1.5915	1500	300	15	20	18.41	30	180	9	M5	18.41	6	10	6	1	3.41	3.0
CSTM-CP-05015-JIS4-N	5	1.5915	1500	300	15	20	18.41	*	*	*	*	*	*	*	*	1	3.41	3.2
CSTM-CP-05020-JIS4	5	1.5915	2050	410	15	20	18.41	35	180	12	M5	18.41	6	10	6	1	3.42	4.1
CSTM-CP-05020-JIS4-N	5	1.5915	2050	410	15	20	18.41	*	*	*	*	*	*	*	*	1	3.42	4.4
CSTM-CP-10005-JIS4-N	10	3.1831	500	50	30	35	31.82	*	*	*	*	*	*	*	*	2	13.01	3.7
CSTM-CP-10010-JIS4	10	3.1831	1000	100	30	35	31.82	50	180	6	M10	31.82	11	17.5	10.8	2	13.36	7.1
CSTM-CP-10010-JIS4-N	10	3.1831	1000	100	30	35	31.82	*	*	*	*	*	*	*	*	2	13.36	7.5
CSTM-CP-10015-JIS4	10	3.1831	1500	150	30	35	31.82	30	180	9	M10	31.82	11	17.5	10.8	2	13.49	10.6
CSTM-CP-10015-JIS4-N	10	3.1831	1500	150	30	35	31.82	*	*	*	*	*	*	*	*	2	13.49	11.2
CSTM-CP-10020-JIS4	10	3.1831	2050	205	30	35	31.82	35	180	12	M10	31.82	11	17.5	10.8	2	13.56	14.4
CSTM-CP-10020-JIS4-N	10	3.1831	2050	205	30	35	31.82	*	*	*	*	*	*	*	*	2	13.56	15.3
CSTM-CP-15005-JIS4-N	15	4.7746	495	33	50	50	45.23	*	*	*	*	*	*	*	*	2	31.84	8.8
CSTM-CP-15010-JIS4	15	4.7746	1005	67	50	50	45.23	62.5	220	5	M14	45.23	16	23	15.2	2	32.94	16.9
CSTM-CP-15010-JIS4-N	15	4.7746	1005	67	50	50	45.23	*	*	*	*	*	*	*	*	2	32.94	17.9
CSTM-CP-15015-JIS4	15	4.7746	1500	100	50	50	45.23	90	220	7	M14	45.23	16	23	15.2	2	33.39	25.2
CSTM-CP-15015-JIS4-N	15	4.7746	1500	100	50	50	45.23	*	*	*	*	*	*	*	*	2	33.39	26.6
CSTM-CP-15020-JIS4	15	4.7746	2040	136	50	50	45.23	30	220	10	M14	45.23	16	23	15.2	2	33.65	34.2
CSTM-CP-15020-JIS4-N	15	4.7746	2040	136	50	50	45.23	*	*	*	*	*	*	*	*	2	33.65	36.2
CSTM-CP-20005-JIS4-N	20	6.3662	500	25	60	60	53.63	*	*	*	*	*	*	*	*	3	50.05	12.8
CSTM-CP-20010-JIS4	20	6.3662	1000	50	60	60	53.63	60	220	5	M16	53.63	18	26	17.5	3	52.06	24.2
CSTM-CP-20010-JIS4-N	20	6.3662	1000	50	60	60	53.63	*	*	*	*	*	*	*	*	3	52.06	25.6
CSTM-CP-20015-JIS4	20	6.3662	1500	75	60	60	53.63	90	220	7	M16	53.63	18	26	17.5	3	52.92	36.2
CSTM-CP-20015-JIS4-N	20	6.3662	1500	75	60	60	53.63	*	*	*	*	*	*	*	*	3	52.92	38.4
CSTM-CP-20020-JIS4	20	6.3662	2040	102	60	60	53.63	30	220	10	M16	53.63	18	26	17.5	3	53.45	49.3
CSTM-CP-20020-JIS4-N	20	6.3662	2040	102	60	60	53.63	*	*	*	*	*	*	*	*	3	53.45	52.2

※ 重量僅供參考 · 實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

導軌齒條目錄 Content of Guideway Racks



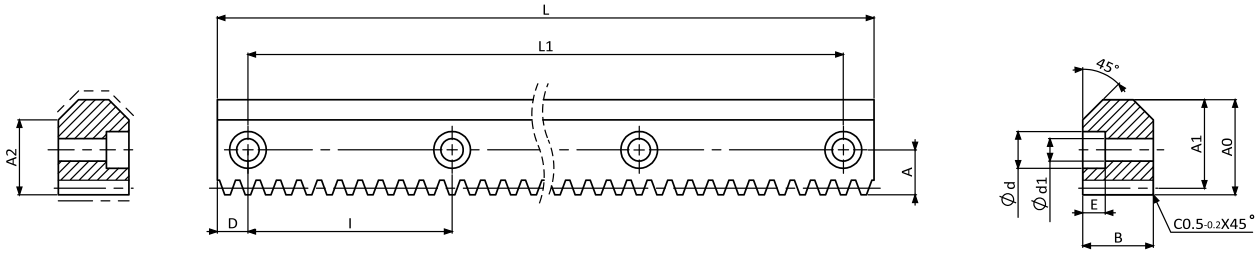
導軌齒條
Guideway Racks

型號 Code	材料 Material	齒條齒型 Type	齒條齒型 Type	棒型 Shape	齒面處理 Teeth Treatment	硬度處理 Hardness	周節 CP	精度等級 Grade DIN	頁碼 Page
MSVGH-CP	SCM440	直齒 Straight	V型導軌齒條 V Type Guideway Rack	六角棒 Hexgan	齒研 Teeth Ground	熱處理 Hardened HRC 53° -58°	5, 7.5, 10	DIN 6	P.27
MNVGH-00	SCM440	N/A	V型導軌 V Type Guideway	六角棒 Hexgan	研磨 Ground	熱處理 Hardened HRC 53° -58°	N/A	DIN 6	P.28
MSTGH-CP	SCM440	直齒 Straight	平軌齒條 Guideway Rack	四角棒 Tetragon	齒研 Teeth Ground	熱處理 Hardened HRC 53° -58°	5, 7.5, 10	DIN 6	P.29
MNTGH-00	SCM440	N/A	平面導軌 Guideway	四角棒 Tetragon	研磨 Ground	熱處理 Hardened HRC 53° -58°	N/A	DIN 6	P.30

導軌齒條型號說明 Guideway Rack Code Instruction

1st	2nd	3th	4th	5th	6th	7th	8th
材料 Material	齒型 Type	棒型 Shape	齒面處理 Teeth Treatment	硬度處理 Hardness	周節 Circular Pitch	長度 Length	等級 Grade
M	S/H	V/T	G	H	CP	10	Q6
M= 合金鋼	S= 直齒 N= 無齒	V=V 型棒 T= 四角棒 (平面)	G= 齒研 / 研磨	H= 硬化處理	CP = 周節	CP5=1030 CP7.5=1230 CP10=1230	Q=DIN
M=SCM440	S= Straight N= None	V=V Type Bar T= Tetragon Bar	G=Teeth Ground /Ground	H=Hardened	CP=Circular Pitch		

MSVGH-CP-Q6



單位 / Dimension : mm

系列 MSVGH-CP-Q6 直齒 V 型齒研導軌齒條
品質等級 Q 6

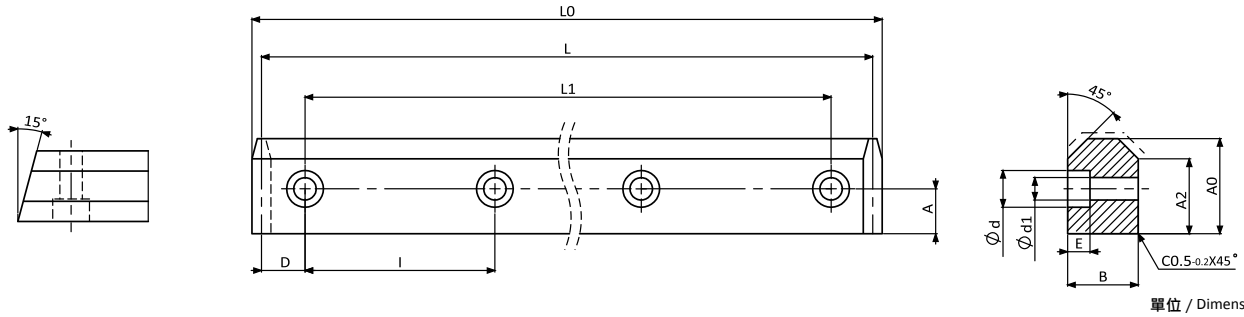
材料 SCM440
硬度 HRC 53~58°
硬化處理後六面研磨與齒研

Series MSVGH-CP-Q6 Straight V Type Ground Guideway Racks
Quality Grade Q 6

Material SCM440
Hardness HRC 53~58°
6 Sides Ground and Teeth Ground after hardening.

型號 Code	序號 No	Q	周節 CP	L	L1	模 數 Module	B	A0	A1	D	I	A	ød	ød1	E	A2	KG
MSVGH-CP 050 10	1	-Q6	5	1030	1000	1.5915	14.5	24.5	22.91	15	100	11.5	11	7	6.8	20.0	2.2
MSVGH-CP 050 10	2	-Q6	5	1030	1000	1.5915	19.5	29.5	27.91	15	100	14.0	15	9	9	23.5	3.5
MSVGH-CP 075 12	1	-Q6	7.5	1230	1200	2.3873	24.7	33.0	30.61	15	100	14.5	15	9	9	25.2	5.8
MSVGH-CP 100 12	1	-Q6	10	1230	1200	3.1831	34.6	46.6	43.42	15	100	18	18	11	11	36.7	11.7

MNVGH-00-Q6



系列 MNVGH-00-Q6 V 型研磨導軌
品質等級 Q 6

材料 SCM440
硬度 HRC 53~58°
左旋角 15°
硬化處理後六面研磨

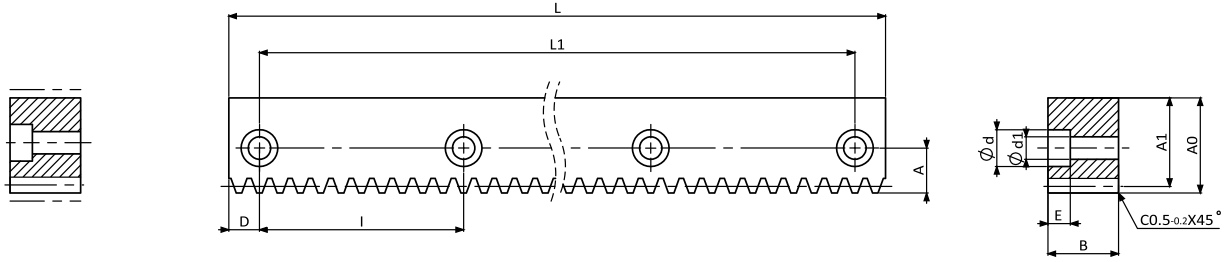
Series MNVGH-00-Q6 V Type Ground Guideway
Quality Grade Q 6

Material SCM440
Hardness HRC 53~58°
Left Hand Angle 15°
6 Sides Ground after hardening.

導軌齒條
Guideway Racks

型號 Code	序號 No	Q	L0	L	L1	B	A0	D	I	ød	ød1	E	A2	KG
MNVGH-00	1	-Q6	1033.89	1030	1000	14.5	24.5	15	100	11	7	6.8	20.0	2.3
MNVGH-00	2	-Q6	1035.23	1030	1000	19.5	29.5	15	100	15	9	9	23.5	3.6
MNVGH-00	3	-Q6	1236.62	1230	1200	24.7	33.0	15	100	15	9	9	25.2	6.3
MNVGH-00	4	-Q6	1239.27	1230	1200	34.6	46.6	15	100	18	11	11	36.7	12.5

MSTGH-CP-Q6



單位 / Dimension : mm

系列 MSTGH-CP-Q6 齒研平軌齒條
品質等級 Q 6

材料 SCM440
硬度 HRC 53~58°
硬化處理後四面研磨與齒研

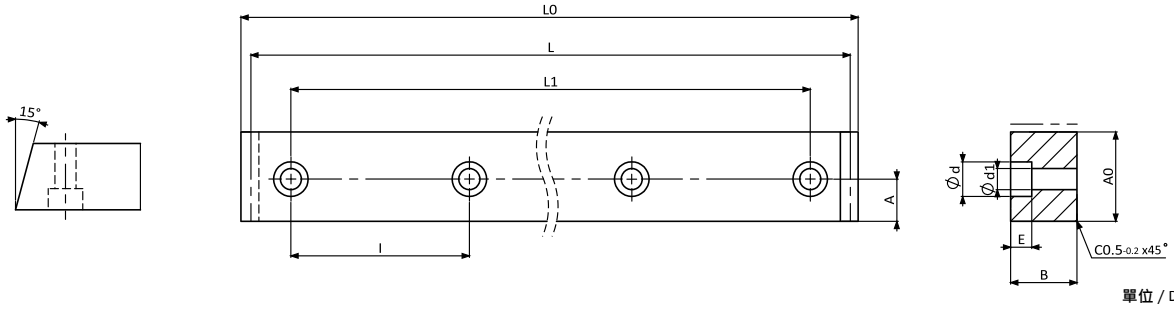
Series MSTGH-CP-Q6 Ground Guideway Racks
Quality Grade Q 6

Material SCM440
Hardness HRC 53~58°
4 Sides Ground and Teeth Ground after hardening.

型號 Code	序號 No	Q	周節 CP	L	L1	模數 Module	B	A0	A1	D	I	A	ød	ød1	E	KG
MSTGH-CP 050 10	1	-Q6	5	1030	1000	1.5915	14.5	24.5	22.91	15	100	11.5	11	7	6.8	2.2
MSTGH-CP 050 10	2	-Q6	5	1030	1000	1.5915	19.5	29.5	27.91	15	100	14.0	15	9	9	3.5
MSTGH-CP 075 12	1	-Q6	7.5	1230	1200	2.3873	24.7	33.0	30.61	15	100	14.5	15	9	9	5.8
MSTGH-CP 100 12	1	-Q6	10	1230	1200	3.1831	34.6	46.6	43.42	15	100	18	18	11	11	11.7

導軌齒條
Guideway Racks

MNTGH-00-Q6



系列 MNTGH-00-Q6 研磨平面導軌
品質等級 Q 6

Series MNTGH-00-Q6 Ground Guideway
Quality Grade Q 6

材料 SCM440
硬度 HRC 53~58°
左旋角 15°
硬化處理後四面研磨

Material SCM440
Hardness HRC 53~58°
Left Hand Angle 15°
4 Sides Ground after hardening.

導軌齒條
Guideway Racks

型號 Code	序號 No	Q	L0	L	L1	B	A0	D	l	ød	ød1	E	KG
MNTGH-00	1	-Q6	1033.89	1030	1000	14.5	24.5	15	100	11	7	6.8	2.5
MNTGH-00	2	-Q6	1035.23	1030	1000	19.5	29.5	15	100	15	9	9	4.0
MNTGH-00	3	-Q6	1236.62	1230	1200	24.7	33.0	15	100	15	9	9	6.8
MNTGH-00	4	-Q6	1239.27	1230	1200	34.6	46.6	15	100	18	11	11	13.4

齒輪目錄 Contents of Pinions

型號 Code	精度等級 DIN 3962	材料 Material	齒輪齒型 Type	齒面處理 Teeth Treatment	硬度處理 Hardness	模數 Module	頁碼 Page
MHGH	DIN 6	SCM415 SCM440	斜齒齒輪左斜 Helical19°31'42"	齒研 Teeth Ground	HRC 55~60°	1.5, 2, 3, 4, 5, 6, 8, 10	P.33-36
MHSH	DIN 7	SCM415 SCM440		磨削 Skiving	HRC 55~60°	1.5, 2, 3, 4, 5, 6, 8, 10	P.37-39
CHM	DIN 8	S50C		精銑 Milled	*	1.5, 2, 3, 4, 5, 6, 8, 10	P.40-42
MHMH	DIN 10	SCM415 SCM440			HRC 50~58°	1.5, 2, 3, 4, 5, 6, 8, 10	P.43-45
MSGH	DIN 6	SCM415 SCM440	直齒齒輪 Straight	齒研 Teeth Ground	HRC 55~60°	2, 3, 4, 5, 6, 8	P.46-50
MSSH	DIN 7	SCM415 SCM440		磨削 Skiving	HRC 55~60°	2, 3, 4, 5, 6, 8	P.51-55
CSM	DIN 8	S50C		精銑 Milled	*	1, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	P.56-64
MSMH	DIN 10	SCM415 SCM440			HRC 50~58°	1, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	P.65-73
MHFGH	DIN 6	SCM415 SCM440	法蘭斜齒齒輪 Flange Helical	齒研 Teeth Ground	HRC 55~58°	2, 3, 4, 5	P.74

型號 Code	精度等級 JIS	材料 Material	齒輪齒型 Type	齒面處理 Teeth Treatment	硬度處理 Hardness	模數 Module	頁碼 Page
MHGH	JIS 2 (N6)	SCM415 SCM440	斜齒齒輪左斜 Helical 21°30'	齒研 Teeth Ground	HRC 55~60°	1, 1.5, 2, 2.5, 3	P.75-79
CHM	JIS 4 (N8)	S50C	斜齒齒輪左斜 Helical 15°	精銑 Milled	*	2, 3	P.80
MSGH	JIS 2 (N6)	SCM415 SCM440	直齒齒輪 Straight	齒研 Teeth Ground	HRC 55~60°	1, 1.5, 2, 2.5, 3, 4	P.81-86
CSSH	JIS 3 (N7)	S50C		磨削 Skiving	HRC 55~60°	1, 1.5, 2, 2.5, 3, 4, 5, 6	P.87-92
CSM	JIS 4 (N8)	S50C		精銑 Milled	*	1, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	P.93-103

型號 Code	精度等級 JIS	材料 Material	齒輪齒型 Type	齒面處理 Teeth Treatment	硬度處理 Hardness	周節 CP	頁碼 Page
MSGH-CP	DIN 6	SCM415 SCM440	直齒齒輪 Straight	齒研 Teeth Ground	HRC 55~60°	5, 7.5, 10, 15, 20	P.104
MSSH-CP	JIS 3 (N7)	SCM415 SCM440		磨削 Skiving	HRC 55~60°	5, 10, 15, 20	P.105
CSM-CP	JIS 4 (N8)	S50C		精銑 Milled	*	5, 10, 15, 20	P.106



齒輪型號說明 Pinion Code Instruction



齒輪
Pinions

1st	2nd	3th	4th	5th	6th	7th	8th	9th	10th
材料 Material	齒型 Type	系列 Series	齒面處理 Teeth Treatment	硬度處理 Hardness	模數 Module 周節 Circular Pitch	齒數 No of Teeth	序號 Series	圖號 Fig	等級 Grade
C	S	(F)	G	H	020	030	1	1	DIN6
C= 中碳鋼 M= 合金鋼	S= 直齒 H= 斜齒	F= 法蘭式	G= 齒研 S= 磨削 M= 精銑	H= 硬化處理	M1.5~M10 CP5-CP20	12~120	1~11	1, 2	DIN 6-9 JIS 2-4
C= Carbon Steel =S45C =S50C M=Alloy Steel =SCM440 =SCM415	S=Straight H=Helical	F=Flange	G=Ground S=Skiving M=Milled	H=Hardened High Frequency Carburized.					

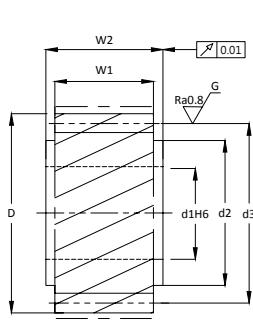


圖1 / Fig . 1

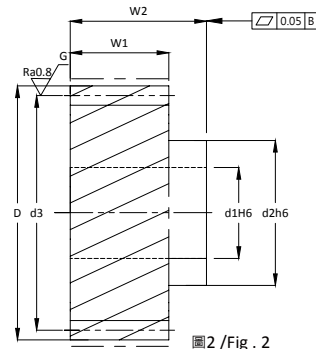
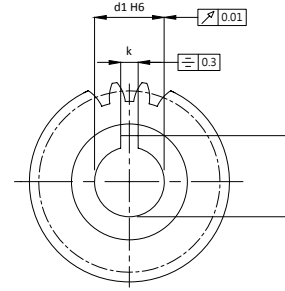


圖2 / Fig . 2



MHGH-DIN6

單位 / Dimension : mm

系列 MHGH-DIN6 斜齒齒研齒輪
品質等級 DIN 6

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 55~60°
硬化處理後齒面研磨

Series MHGH-DIN6 Helical Teeth Ground Pinions
Quality Grade DIN 6

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 55~60°
Teeth Ground after Hardening

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1.5 / Module 1.5													
MHGH0150201	1	-DIN6	20	11	25	31.83	34.83	20	22	4	12.8	7.16	0.1
MHGH0150202	1	-DIN6	20	13	25	31.83	34.83	20	22	5	15.3	7.16	0.1
MHGH0150203	1	-DIN6	20	14	25	31.83	34.83	20	22	5	16.3	7.16	0.1
MHGH0150204	1	-DIN6	20	16	25	31.83	34.83	20	22	5	18.3	7.16	0.1
MHGH0150211	2	-DIN6	21	16	30	33.42	36.42	20	46	5	18.3	7.23	0.3



MHGH-DIN6

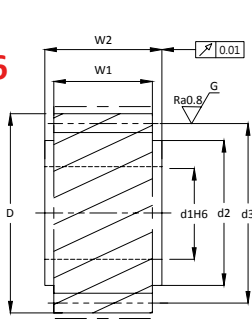


圖1 / Fig. 1

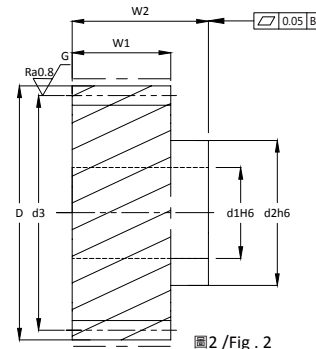
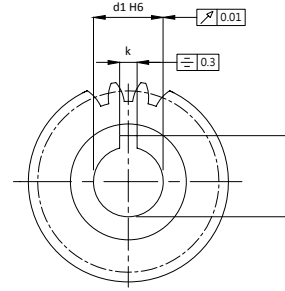


圖2 / Fig. 2



單位 / Dimension : mm

系列 MHGH-DIN6 斜齒齒研齒輪
品質等級 DIN 6

Series MHGH-DIN6 Helical Teeth Ground Pinions
Quality Grade DIN 6

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 55~60°
硬化處理後齒面研磨

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 55~60°
Teeth Ground after Hardening

斜齒
Helical
DIN

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2 / Module 2													
MHGH0200181	1	-DIN6	18	16	25	38.197	42.2	28	30	5	18.3	12.88	0.2
MHGH0200201	1	-DIN6	20	19	30	42.44	46.4	28	30	6	21.8	13.37	0.2
MHGH0200202	2	-DIN6	20	19	30	42.44	46.4	28	56	6	21.8	13.37	0.2
MHGH0200203	1	-DIN6	20	20	30	42.44	46.4	28	30	6	22.8	13.37	0.2
MHGH0200204	2	-DIN6	20	22	36	42.44	46.4	28	56	6	24.8	13.37	0.2
MHGH0200205	1	-DIN6	20	22	30	42.44	46.4	28	30	6	24.8	13.37	0.2
MHGH0200211	1	-DIN6	21	16	25	44.56	48.6	28	30	5	18.3	13.51	0.3
MHGH0200212	2	-DIN6	21	22	36	44.56	48.6	28	30	6	24.8	13.51	0.3
MHGH0200221	1	-DIN6	22	19	30	46.69	50.7	28	30	6	21.8	13.78	0.3
MHGH0200222	2	-DIN6	22	19	30	46.69	50.7	28	56	6	21.8	13.78	0.3
MHGH0200223	1	-DIN6	22	22	30	46.69	50.7	28	30	6	24.8	13.78	0.3
MHGH0200224	2	-DIN6	22	22	36	46.69	50.7	28	56	6	24.8	13.78	0.3
MHGH0200251	1	-DIN6	25	19	30	53.05	57.1	28	30	6	21.8	14.31	0.4
MHGH0200252	2	-DIN6	25	19	30	53.05	57.1	28	56	6	21.8	14.31	0.4
MHGH0200253	1	-DIN6	25	20	30	53.05	57.1	28	30	6	22.8	14.31	0.4
MHGH0200254	1	-DIN6	25	22	30	53.05	57.1	28	30	6	24.8	14.31	0.4
MHGH0200255	2	-DIN6	25	22	36	53.05	57.1	28	56	6	24.8	14.31	0.4
MHGH0200256	1	-DIN6	25	25	36	53.05	57.1	28	30	6	27.8	14.31	0.4
MHGH0200281	1	-DIN6	28	19	30	59.42	63.4	28	30	6	21.8	14.75	0.4
MHGH0200282	2	-DIN6	28	19	30	59.42	63.4	28	56	6	21.8	14.75	0.4
MHGH0200283	1	-DIN6	28	22	30	59.42	63.4	28	30	6	24.8	14.78	0.4
MHGH0200284	2	-DIN6	28	22	36	59.42	63.4	28	56	6	24.8	14.75	0.4
MHGH0200285	1	-DIN6	28	35	48	59.42	63.4	28	30	10	38.3	14.78	0.4
MHGH0200301	1	-DIN6	30	16	25	63.66	67.7	28	30	5	18.3	15.02	0.7
MHGH0200302	1	-DIN6	30	20	30	63.66	67.7	28	30	6	22.8	15.02	0.7
MHGH0200303	2	-DIN6	30	22	36	63.66	67.7	28	56	6	24.8	15.02	0.7
MHGH0200304	1	-DIN6	30	25	36	63.66	67.7	28	30	8	28.3	15.02	0.7
MHGH0200305	1	-DIN6	30	30	45	63.66	67.7	28	30	8	33.3	15.02	0.7
MHGH0200306	2	-DIN6	30	30	50	63.66	67.7	28	60	8	33.3	15.02	0.7
MHGH0200307	2	-DIN6	30	32	55	63.66	67.7	28	65	10	35.3	15.02	0.7
MHGH0200321	1	-DIN6	32	20	30	67.91	71.9	28	30	6	22.8	15.24	0.7
MHGH0200322	1	-DIN6	32	22	30	67.91	71.9	28	30	6	24.8	15.24	0.7
MHGH0200323	2	-DIN6	32	22	36	67.91	71.9	28	56	6	27.8	15.24	0.7
MHGH0200324	1	-DIN6	32	25	36	67.91	71.9	28	30	8	28.3	15.24	0.7
MHGH0200325	1	-DIN6	32	35	48	67.91	71.9	28	30	10	38.3	15.24	0.7
MHGH0200361	1	-DIN6	36	35	48	76.39	80.4	28	30	10	38.3	15.63	0.8
MHGH0200391	2	-DIN6	39	32	55	82.76	86.8	28	65	10	35.3	15.88	1.4
MHGH0200401	1	-DIN6	40	35	48	84.88	88.9	28	30	10	38.3	15.95	1.2

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

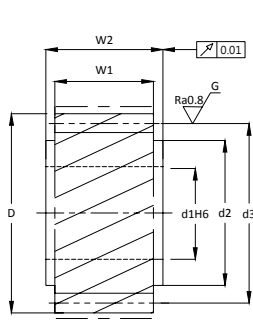


圖1 / Fig. 1

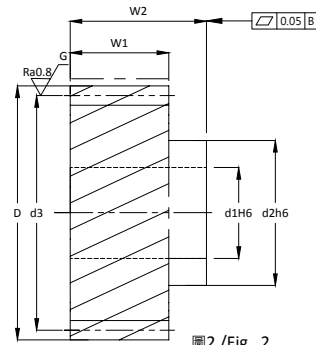
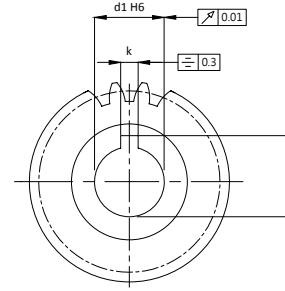


圖2 / Fig. 2



MHGH-DIN6

單位 / Dimension : mm

系列 MHGH-DIN6 斜齒齒研齒輪
品質等級 DIN 6

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 55~60°
硬化處理後齒面研磨

Series MHGH-DIN6 Helical Teeth Ground Pinions
Quality Grade DIN 6

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 55~60°
Teeth Ground after Hardening

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3													
MHGH0300181	1	-DIN6	18	25	36	54	60	28	30	8	28.3	15.21	0.4
MHGH0300201	1	-DIN6	20	25	36	60	66	28	30	8	28.3	20.05	0.5
MHGH0300202	2	-DIN6	20	25	44	63.66	69.7	28	60	8	28.3	20.05	1.1
MHGH0300203	1	-DIN6	20	30	45	63.66	69.7	28	30	8	33.3	20.05	0.5
MHGH0300204	2	-DIN6	20	30	50	63.66	69.7	28	60	8	33.3	20.05	1.1
MHGH0300205	2	-DIN6	20	32	55	63.66	69.7	28	65	10	35.3	20.05	1.2
MHGH0300206	1	-DIN6	20	35	48	63.66	69.7	28	30	10	38.3	20.05	0.5
MHGH0300221	1	-DIN6	22	25	36	70.03	76	28	30	8	28.3	20.67	0.6
MHGH0300222	1	-DIN6	22	30	45	70.03	76	28	30	8	33.3	20.67	0.6
MHGH0300223	2	-DIN6	22	32	55	70.03	76	28	65	10	35.3	20.67	1.4
MHGH0300224	1	-DIN6	22	35	48	70.03	76	28	30	10	38.3	20.67	0.6
MHGH0300225	2	-DIN6	22	40	62	70.03	76	28	65	12	43.3	20.67	1.4
MHGH0300251	2	-DIN6	25	22	36	79.58	85.6	28	56	6	24.8	21.47	1.5
MHGH0300252	1	-DIN6	25	25	36	79.58	85.6	28	30	8	28.3	21.47	0.8
MHGH0300253	2	-DIN6	25	25	44	79.58	85.6	28	60	8	28.3	21.47	1.6
MHGH0300254	1	-DIN6	25	30	45	79.58	85.6	28	30	8	33.3	21.47	0.8
MHGH0300255	2	-DIN6	25	30	50	79.58	85.6	28	60	8	33.3	21.47	1.6
MHGH0300256	2	-DIN6	25	32	55	79.58	85.6	28	65	10	35.3	21.47	1.8
MHGH0300257	1	-DIN6	25	35	48	79.58	85.6	28	30	10	38.3	21.47	0.8
MHGH0300258	2	-DIN6	25	35	55	79.58	85.6	28	65	10	38.3	21.47	1.8
MHGH0300259	1	-DIN6	25	40	70	79.58	85.6	28	50	12	43.3	21.47	1.4
MHGH03002510	2	-DIN6	25	40	62	79.58	85.6	28	65	12	43.3	21.47	1.8
MHGH0300281	2	-DIN6	28	32	55	89.13	95.1	28	65	10	35.3	22.13	2.2
MHGH0300282	2	-DIN6	28	40	62	89.13	95.1	28	65	12	43.3	22.13	2.2
MHGH0300321	2	-DIN6	32	32	55	101.86	107.85	28	65	10	35.3	22.86	2.8
MHGH0300322	2	-DIN6	32	40	62	101.86	107.85	28	65	12	43.3	22.86	2.8



MHGH-DIN6

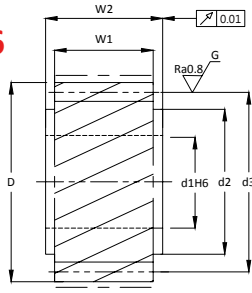


圖1 / Fig. 1

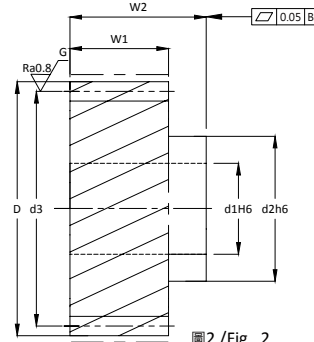
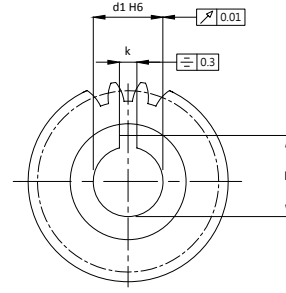


圖2 / Fig. 2



單位 / Dimension : mm

系列 MHGH-DIN6 斜齒齒研齒輪
品質等級 DIN 6

Series MHGH-DIN6 Helical Teeth Ground Pinions
Quality Grade DIN 6

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 55~60°
硬化處理後齒面研磨

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 55~60°
Teeth Ground after Hardening



型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 4 / Module 4													
MHGH0400151	1	-DIN6	15	35	52	63.66	71.7	40	50	10	38.3	34.29	0.8
MHGH0400181	2	-DIN6	18	32	55	76.39	84.4	40	75	10	35.3	36.80	1.6
MHGH0400201	1	-DIN6	20	35	52	84.88	92.9	40	50	10	38.3	38.20	1.3
MHGH0400202	1	-DIN6	20	45	65	84.88	92.9	40	50	14	48.8	38.20	1.3
MHGH0400211	2	-DIN6	21	32	55	89.13	97.1	40	75	10	35.3	38.60	2.2
MHGH0400212	2	-DIN6	21	35	55	89.13	97.1	40	75	10	38.3	38.60	2.2
MHGH0400213	2	-DIN6	21	40	62	89.13	97.1	40	75	12	43.3	38.60	2.2
MHGH0400214	2	-DIN6	21	45	68	89.13	97.1	40	75	14	48.8	38.60	2.2
MHGH0400221	1	-DIN6	22	35	52	93.37	101.4	40	50	10	38.3	39.37	1.6
MHGH0400222	1	-DIN6	22	45	65	93.37	101.4	40	50	14	48.8	39.37	1.6
MHGH0400241	2	-DIN6	24	32	55	101.86	109.9	40	75	10	35.3	40.43	2.8
MHGH0400242	2	-DIN6	24	35	55	101.86	109.9	40	75	10	38.3	40.43	2.8
MHGH0400243	2	-DIN6	24	40	62	101.86	109.9	40	75	12	43.3	40.43	2.8
MHGH0400244	2	-DIN6	24	45	68	101.86	109.9	40	75	14	48.8	40.43	2.8
MHGH0400245	2	-DIN6	24	55	80	101.86	109.9	40	80	16	59.3	40.43	3.0
MHGH0400251	1	-DIN6	25	35	52	106.1	114.1	40	50	10	38.3	40.91	2.0
MHGH0400252	1	-DIN6	25	45	65	106.1	114.1	40	50	14	48.8	40.91	2.0
MHGH0400253	2	-DIN6	25	55	80	106.1	114.1	40	80	16	59.3	40.91	3.2
模數 5 / Module 5													
MHGH0500181	2	-DIN6	18	45	68	95.49	105.5	50	85	14	48.8	57.50	2.9
MHGH0500241	2	-DIN6	24	45	68	127.32	137.3	50	85	14	48.8	63.17	4.9
MHGH0500242	2	-DIN6	24	55	80	127.32	137.3	50	90	16	59.3	63.17	5.2
MHGH0500243	2	-DIN6	24	75	110	127.32	137.3	50	110	20	79.9	63.17	6.4
模數 6 / Module 6													
MHGH0600201	2	-DIN6	20	55	80	127.32	139.3	60	100	16	59.3	85.95	6.0
MHGH0600202	2	-DIN6	20	75	110	127.32	139.3	60	120	20	79.9	85.95	7.2
MHGH0600251	2	-DIN6	25	55	80	159.16	171.2	60	100	16	59.3	92.04	9.0
MHGH0600252	2	-DIN6	25	75	110	159.16	171.2	60	120	20	79.9	92.04	10.8
模數 8 / Module 8													
MHGH0800181	2	-DIN6	18	75	110	152.79	168.8	80	140	20	79.9	147.20	12.3
MHGH0800201	2	-DIN6	20	85	125	169.8	185.8	80	145	22	90.4	152.80	15.4
模數 10 / Module 10													
MHGH1000201	2	-DIN6	20	85	125	212.21	232.2	100	165	22	90.4	238.75	27.4

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

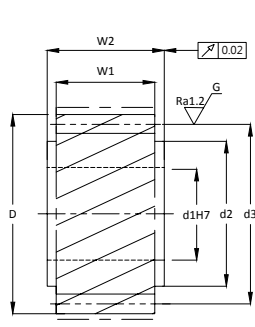


圖1 / Fig. 1

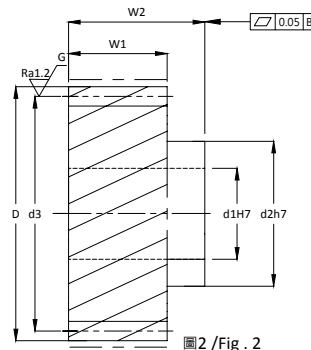
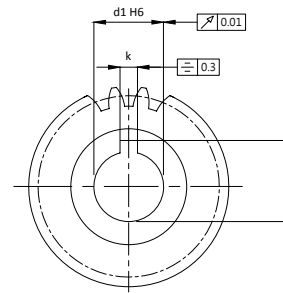


圖2 / Fig. 2



MHSH-DIN7

單位 / Dimension : mm

系列 MHSH-DIN7 斜齒磨削齒輪
品質等級 DIN 7

Series MHSH-DIN7 Helical Skiving Pinions
Quality Grade DIN 7

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 55~60°
硬化處理後齒面磨削

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 55~60°
Skiving after Hardening

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1.5 / Module 1.5													
MHSH0150201	1	-DIN7	20	11	25	31.83	34.83	20	22	4	12.8	6.56	0.1
MHSH0150202	1	-DIN7	20	13	25	31.83	34.83	20	22	5	15.3	6.56	0.1
MHSH0150203	1	-DIN7	20	14	25	31.83	34.83	20	22	5	16.3	6.56	0.1
MHSH0150204	1	-DIN7	20	16	25	31.83	34.83	20	22	5	18.3	6.56	0.1
MHSH0150211	2	-DIN7	21	16	30	33.42	36.42	20	46	5	18.3	6.63	0.3
模數 2 / Module 2													
MHSH0200181	1	-DIN7	18	16	25	38.197	42.2	28	30	5	18.3	11.80	0.2
MHSH0200201	1	-DIN7	20	19	30	42.44	46.4	28	30	6	21.8	12.25	0.3
MHSH0200202	2	-DIN7	20	19	30	42.44	46.4	28	56	6	21.8	12.25	0.6
MHSH0200203	1	-DIN7	20	20	30	42.44	46.4	28	30	6	22.8	12.25	0.3
MHSH0200204	2	-DIN7	20	22	36	42.44	46.4	28	56	6	24.8	12.25	0.6
MHSH0200205	1	-DIN7	20	22	30	42.44	46.4	28	30	6	24.8	12.25	0.3
MHSH0200211	1	-DIN7	21	16	25	44.56	48.6	28	30	5	18.3	12.38	0.3
MHSH0200212	2	-DIN7	21	22	36	44.56	48.6	28	30	6	24.8	12.38	0.3
MHSH0200221	1	-DIN7	22	19	30	46.69	50.7	28	30	6	21.8	12.63	0.4
MHSH0200222	2	-DIN7	22	19	30	46.69	50.7	28	56	6	21.8	12.63	0.7
MHSH0200223	1	-DIN7	22	22	30	46.69	50.7	28	30	6	24.8	12.63	0.4
MHSH0200224	2	-DIN7	22	22	36	46.69	50.7	28	56	6	24.8	12.63	0.7
MHSH0200251	1	-DIN7	25	19	30	53.05	57.1	28	30	6	21.8	13.12	0.5
MHSH0200252	2	-DIN7	25	19	30	53.05	57.1	28	56	6	21.8	13.12	0.8
MHSH0200253	1	-DIN7	25	20	30	53.05	57.1	28	30	6	22.8	13.12	0.5
MHSH0200254	1	-DIN7	25	22	30	53.05	57.1	28	30	6	24.8	13.12	0.5
MHSH0200255	2	-DIN7	25	22	36	53.05	57.1	28	56	6	24.8	13.12	0.8
MHSH0200256	1	-DIN7	25	25	36	53.05	57.1	28	30	6	24.8	13.12	0.5
MHSH0200281	1	-DIN7	28	19	30	59.42	63.4	28	30	6	21.8	13.52	0.6
MHSH0200282	2	-DIN7	28	19	30	59.42	63.4	28	56	6	21.8	13.52	1.0
MHSH0200283	1	-DIN7	28	22	30	59.42	63.4	28	30	6	24.8	13.52	0.6
MHSH0200284	2	-DIN7	28	22	36	59.42	63.4	28	56	6	24.8	13.52	1.0
MHSH0200285	1	-DIN7	28	35	48	59.42	63.4	28	30	10	38.3	13.52	0.6
MHSH0200301	1	-DIN7	30	16	25	63.66	67.7	28	30	5	18.3	13.77	0.6
MHSH0200302	1	-DIN7	30	20	30	63.66	67.7	28	30	6	22.8	13.77	0.6
MHSH0200303	2	-DIN7	30	22	36	63.66	67.7	28	56	6	24.8	13.77	1.2
MHSH0200304	1	-DIN7	30	25	36	63.66	67.7	28	30	8	28.3	13.77	0.6
MHSH0200305	1	-DIN7	30	30	45	63.66	67.7	28	30	8	33.3	13.77	0.6
MHSH0200306	2	-DIN7	30	30	50	63.66	67.7	28	60	8	33.3	13.77	1.3
MHSH0200307	2	-DIN7	30	32	55	63.66	67.7	28	65	10	35.3	13.77	1.4
MHSH0200321	1	-DIN7	32	20	30	67.91	71.9	28	30	6	22.8	13.97	0.7
MHSH0200322	1	-DIN7	32	22	30	67.91	71.9	28	30	6	24.8	13.97	0.7
MHSH0200323	2	-DIN7	32	22	36	67.91	71.9	28	56	6	27.8	13.97	1.3
MHSH0200324	1	-DIN7	32	25	36	67.91	71.9	28	30	8	28.3	13.97	0.7
MHSH0200325	1	-DIN7	32	35	48	67.91	71.9	28	30	10	38.3	13.97	0.7
MHSH0200361	1	-DIN7	36	35	48	76.39	80.4	28	30	10	38.3	14.32	0.9
MHSH0200391	2	-DIN7	39	32	55	82.76	86.8	28	65	10	35.3	14.56	2.3
MHSH0200401	1	-DIN7	40	35	48	84.88	88.9	28	30	10	38.3	14.62	1.1

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.



MHSH-DIN7

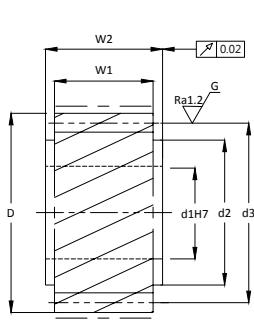


圖1 / Fig. 1

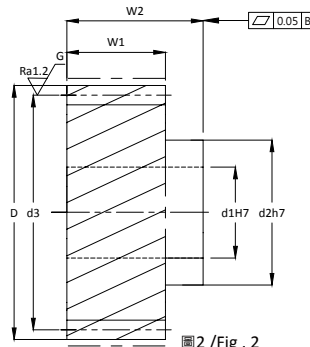
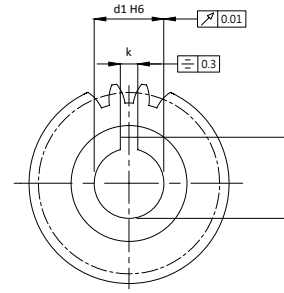


圖2 / Fig. 2



單位 / Dimension : mm

系列 MHSH-DIN7 斜齒磨削齒輪
品質等級 DIN 7

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 55~60°
硬化處理後齒面磨削

Series MHSH-DIN7 Helical Skiving Pinions
Quality Grade DIN 7

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 55~60°
Skiving after Hardening



型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3													
MHSH0300201	2	-DIN7	20	22	36	63.66	69.7	28	56	6	24.8	18.38	1.0
MHSH0300202	2	-DIN7	20	25	44	63.66	69.7	28	60	8	28.3	18.38	1.1
MHSH0300203	1	-DIN7	20	30	45	63.66	69.7	28	30	8	33.3	18.38	0.5
MHSH0300204	2	-DIN7	20	30	50	63.66	69.7	28	60	8	33.3	18.38	1.1
MHSH0300205	2	-DIN7	20	32	55	63.66	69.7	28	65	10	35.3	18.38	1.2
MHSH0300206	1	-DIN7	20	35	48	63.66	69.7	28	30	10	38.3	18.38	0.5
MHSH0300221	1	-DIN7	22	25	36	70.03	76	28	30	8	28.3	18.94	0.6
MHSH0300222	1	-DIN7	22	30	45	70.03	76	28	30	8	33.3	18.94	0.6
MHSH0300223	2	-DIN7	22	32	55	70.03	76	28	65	10	35.3	18.94	1.4
MHSH0300224	1	-DIN7	22	35	48	70.03	76	28	30	10	38.3	18.94	0.6
MHSH0300225	2	-DIN7	22	40	62	70.03	76	28	65	12	43.3	18.94	1.4
MHSH0300251	2	-DIN7	25	22	36	79.58	85.6	28	56	6	24.8	19.68	1.5
MHSH0300252	1	-DIN7	25	25	36	79.58	85.6	28	30	8	28.3	19.68	0.8
MHSH0300253	2	-DIN7	25	25	44	79.58	85.6	28	60	8	28.3	19.68	1.6
MHSH0300254	1	-DIN7	25	30	45	79.58	85.6	28	30	8	33.3	19.68	0.8
MHSH0300255	2	-DIN7	25	30	50	79.58	85.6	28	60	8	33.3	19.68	1.6
MHSH0300256	2	-DIN7	25	32	55	79.58	85.6	28	65	10	35.3	19.68	1.8
MHSH0300257	1	-DIN7	25	35	48	79.58	85.6	28	30	10	38.3	19.68	0.8
MHSH0300258	2	-DIN7	25	35	55	79.58	85.6	28	65	10	38.3	19.68	1.8
MHSH0300259	1	-DIN7	25	40	70	79.58	85.6	28	50	12	43.3	19.68	1.4
MHSH03002510	2	-DIN7	25	40	62	79.58	85.6	28	65	12	43.3	19.68	1.8
MHSH0300281	2	-DIN7	28	32	55	89.13	95.1	28	65	10	35.3	20.28	2.2
MHSH0300282	2	-DIN7	28	40	62	89.13	95.1	28	65	12	43.3	20.28	2.2
MHSH0300321	2	-DIN7	32	32	55	101.86	107.85	28	65	10	35.3	20.95	2.8
MHSH0300322	2	-DIN7	32	40	62	101.86	107.85	28	65	12	43.3	20.95	2.8

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

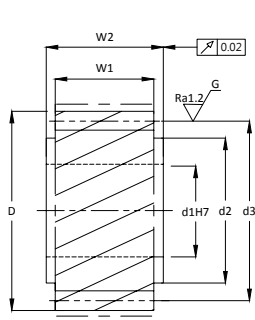


圖1 / Fig. 1

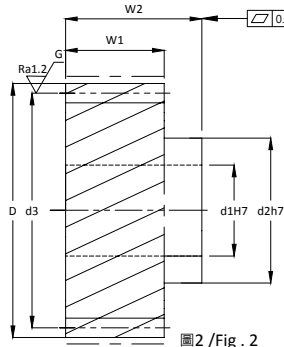
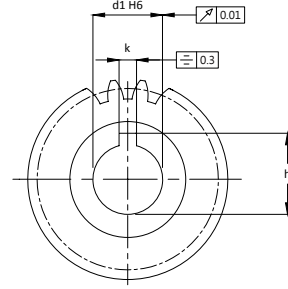


圖2 / Fig. 2



MHSH-DIN7

單位 / Dimension : mm

系列 MHSH-DIN7 斜齒磨削齒輪
品質等級 DIN 7

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 55~60°
硬化處理後齒面磨削

Series MHSH-DIN7 Helical Skiving Pinions
Quality Grade DIN 7

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 55~60°
Skiving after Hardening

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 4 / Module 4													
MHSH0400151	1	-DIN7	15	35	52	63.66	71.7	40	50	10	38.3	31.44	0.8
MHSH0400181	2	-DIN7	18	32	55	76.39	84.4	40	75	10	35.3	33.73	1.6
MHSH0400201	1	-DIN7	20	35	52	84.88	92.9	40	50	10	38.3	35.01	1.3
MHSH0400202	1	-DIN7	20	45	65	84.88	92.9	40	50	14	48.8	35.01	1.3
MHSH0400211	2	-DIN7	21	32	55	89.13	97.1	40	75	10	35.3	35.39	2.2
MHSH0400212	2	-DIN7	21	35	55	89.13	97.1	40	75	10	38.3	35.39	2.2
MHSH0400213	2	-DIN7	21	40	62	89.13	97.1	40	75	12	43.3	35.39	2.2
MHSH0400214	2	-DIN7	21	45	68	89.13	97.1	40	75	14	48.8	35.39	2.2
MHSH0400221	1	-DIN7	22	35	52	93.37	101.4	40	50	10	38.3	36.09	1.6
MHSH0400222	1	-DIN7	22	45	65	93.37	101.4	40	50	14	48.8	36.09	1.6
MHSH0400241	2	-DIN7	24	32	55	101.86	109.9	40	75	10	35.3	37.06	2.8
MHSH0400242	2	-DIN7	24	35	55	101.86	109.9	40	75	10	38.3	37.06	2.8
MHSH0400243	2	-DIN7	24	40	62	101.86	109.9	40	75	12	43.3	37.06	2.8
MHSH0400244	2	-DIN7	24	45	68	101.86	109.9	40	75	14	48.8	37.06	2.8
MHSH0400245	2	-DIN7	24	55	80	101.86	109.9	40	80	16	59.3	37.06	3.0
MHSH0400251	1	-DIN7	25	35	52	106.1	114.1	40	50	10	38.3	37.50	2.0
MHSH0400252	1	-DIN7	25	45	65	106.1	114.1	40	50	14	48.8	37.50	2.0
MHSH0400253	2	-DIN7	25	55	80	106.1	114.1	40	80	16	59.3	37.50	3.2
模數 5 / Module 5													
MHSH0500181	2	-DIN7	18	45	68	95.49	105.5	50	85	14	48.8	52.71	2.9
MHSH0500241	2	-DIN7	24	45	68	127.32	137.3	50	85	14	48.8	57.90	4.9
MHSH0500242	2	-DIN7	24	55	80	127.32	137.3	50	90	16	59.3	57.90	5.2
MHSH0500243	2	-DIN7	24	75	110	127.32	137.3	50	110	20	79.9	57.90	6.4
模數 6 / Module 6													
MHSH0600201	2	-DIN7	20	55	80	127.32	139.3	60	100	16	59.3	78.79	6.0
MHSH0600202	2	-DIN7	20	75	110	127.32	139.3	60	120	20	79.9	78.79	7.2
MHSH0600251	2	-DIN7	25	55	80	159.16	171.2	60	100	16	59.3	84.37	9.0
MHSH0600252	2	-DIN7	25	75	110	159.16	171.2	60	120	20	79.9	84.37	10.8
模數 8 / Module 8													
MHSH0800181	2	-DIN7	18	75	110	152.79	168.8	80	140	20	79.9	134.94	12.3
MHSH0800202	2	-DIN7	20	85	125	169.8	185.8	80	145	22	90.4	140.07	15.4
模數 10 / Module 10													
MHSH1000201	2	-DIN7	20	85	125	212.21	232.2	100	165	22	90.4	218.86	27.4



※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CHM-DIN8

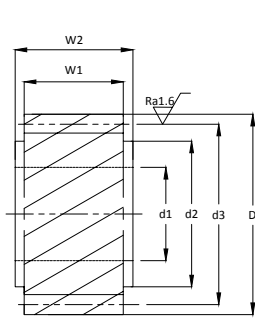


圖1 / Fig. 1

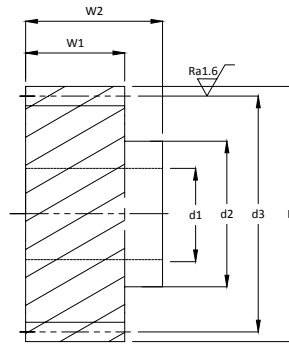


圖2 / Fig. 2

單位 / Dimension : mm

系列 CHM-DIN8 斜齒齒輪
品質等級 DIN 8

Series CHM-DIN8 Helical Soft Pinions
Quality Grade DIN 8

材料 S50C
左旋角 19°31'42"

Material S50C
Left Hand Angle 19°31'42"



型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1.5 / Module 1.5													
CHM0150201	1	-DIN8	20	11	25	31.83	34.83	20	22	4	12.8	3.61	0.1
CHM0150202	1	-DIN8	20	13	25	31.83	34.83	20	22	5	15.3	3.61	0.1
CHM0150203	1	-DIN8	20	14	25	31.83	34.83	20	22	5	16.3	3.61	0.1
CHM0150204	1	-DIN8	20	16	25	31.83	34.83	20	22	5	18.3	3.61	0.1
CHM0150211	2	-DIN8	21	16	30	33.42	36.42	20	46	5	18.3	3.65	0.3
模數 2 / Module 2													
CHM0200181	1	-DIN8	18	16	25	38.197	42.2	28	30	5	18.3	6.50	0.2
CHM0200201	1	-DIN8	20	19	30	42.44	46.4	28	30	6	21.8	6.75	0.3
CHM0200202	2	-DIN8	20	19	30	42.44	46.4	28	56	6	21.8	6.75	0.6
CHM0200203	1	-DIN8	20	20	30	42.44	46.4	28	30	6	22.8	6.75	0.3
CHM0200204	2	-DIN8	20	22	36	42.44	46.4	28	56	6	24.8	6.75	0.6
CHM0200205	1	-DIN8	20	22	30	42.44	46.4	28	30	6	24.8	6.75	0.3
CHM0200211	1	-DIN8	21	16	25	44.56	48.6	28	30	5	18.3	6.82	0.3
CHM0200212	2	-DIN8	21	22	36	44.56	48.6	28	30	6	24.8	6.82	0.3
CHM0200221	1	-DIN8	22	19	30	46.69	50.7	28	30	6	21.8	6.96	0.4
CHM0200222	2	-DIN8	22	19	30	46.69	50.7	28	56	6	21.8	6.96	0.7
CHM0200223	1	-DIN8	22	22	30	46.69	50.7	28	30	6	24.8	6.96	0.4
CHM0200224	2	-DIN8	22	22	36	46.69	50.7	28	56	6	24.8	6.96	0.7
CHM0200251	1	-DIN8	25	19	30	53.05	57.1	28	30	6	21.8	7.23	0.5
CHM0200252	2	-DIN8	25	19	30	53.05	57.1	28	56	6	21.8	7.23	0.8
CHM0200253	1	-DIN8	25	20	30	53.05	57.1	28	30	6	22.8	7.23	0.5
CHM0200254	1	-DIN8	25	22	30	53.05	57.1	28	30	6	24.8	7.23	0.5
CHM0200255	2	-DIN8	25	22	36	53.05	57.1	28	56	6	24.8	7.23	0.8
CHM0200256	1	-DIN8	25	25	36	53.05	57.1	28	30	6	27.8	7.23	0.5
CHM0200281	1	-DIN8	28	19	30	59.42	63.4	28	30	6	21.8	7.45	0.6
CHM0200282	2	-DIN8	28	19	30	59.42	63.4	28	56	6	21.8	7.45	1.0
CHM0200283	1	-DIN8	28	22	30	59.42	63.4	28	30	6	24.8	7.45	0.6
CHM0200284	2	-DIN8	28	22	36	59.42	63.4	28	56	6	24.8	7.45	1.0
CHM0200285	1	-DIN8	28	35	48	59.42	63.4	28	30	10	38.3	7.45	0.6
CHM0200301	1	-DIN8	30	16	25	63.66	67.7	28	30	5	18.3	7.58	0.6
CHM0200302	1	-DIN8	30	20	30	63.66	67.7	28	30	6	22.8	7.58	0.6
CHM0200303	2	-DIN8	30	22	36	63.66	67.7	28	56	6	24.8	7.58	1.2
CHM0200304	1	-DIN8	30	25	36	63.66	67.7	28	30	8	28.3	7.58	0.6
CHM0200305	1	-DIN8	30	30	45	63.66	67.7	28	30	8	33.3	7.58	0.6
CHM0200306	2	-DIN8	30	30	50	63.66	67.7	28	60	8	33.3	7.58	1.3
CHM0200307	2	-DIN8	30	32	55	63.66	67.7	28	65	10	35.3	7.58	1.4
CHM0200321	1	-DIN8	32	20	30	67.91	71.9	28	30	6	22.8	7.70	0.7
CHM0200322	1	-DIN8	32	22	30	67.91	71.9	28	30	6	24.8	7.70	0.7
CHM0200323	2	-DIN8	32	22	36	67.91	71.9	28	56	6	27.8	7.70	1.3
CHM0200324	1	-DIN8	32	25	36	67.91	71.9	28	30	8	28.3	7.70	0.7
CHM0200325	1	-DIN8	32	35	48	67.91	71.9	28	30	10	38.3	7.70	0.7
CHM0200361	1	-DIN8	36	35	48	76.39	80.4	28	30	10	38.3	7.89	0.9
CHM0200391	2	-DIN8	39	32	55	82.76	86.8	28	65	10	35.3	8.02	2.3
CHM0200401	1	-DIN8	40	35	48	84.88	88.9	28	30	10	38.3	8.06	1.1

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CHM-DIN8

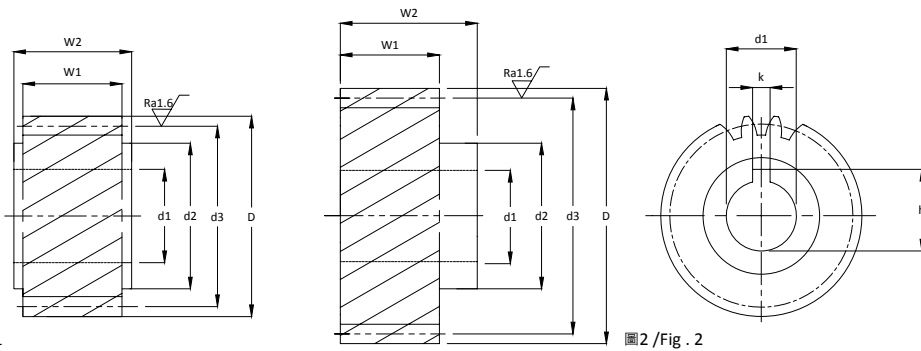


圖1 / Fig. 1

圖2 / Fig. 2

單位 / Dimension : mm

系列 CHM-DIN8 斜齒齒輪
品質等級 DIN 8

Series CHM-DIN8 Helical Soft Pinions
Quality Grade DIN 8

材料 S50C
左旋角 19°31'42"

Material S50C
Left Hand Angle 19°31'42"

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3													
CHM0300201	2	-DIN8	20	22	36	63.66	69.7	28	56	6	24.8	10.13	1.0
CHM0300202	2	-DIN8	20	25	44	63.66	69.7	28	60	8	28.3	10.13	1.1
CHM0300203	1	-DIN8	20	30	45	63.66	69.7	28	30	8	33.3	10.13	0.5
CHM0300204	2	-DIN8	20	30	50	63.66	69.7	28	60	8	33.3	10.13	1.1
CHM0300205	2	-DIN8	20	32	55	63.66	69.7	28	65	10	35.3	10.13	1.2
CHM0300206	1	-DIN8	20	35	48	63.66	69.7	28	30	10	38.3	10.13	0.5
CHM0300221	1	-DIN8	22	25	36	70.03	76	28	30	8	28.3	10.44	0.6
CHM0300222	1	-DIN8	22	30	45	70.03	76	28	30	8	33.3	10.44	0.6
CHM0300223	2	-DIN8	22	32	55	70.03	76	28	65	10	35.3	10.44	1.4
CHM0300224	1	-DIN8	22	35	48	70.03	76	28	30	10	38.3	10.44	0.6
CHM0300225	2	-DIN8	22	40	62	70.03	76	28	65	12	43.3	10.44	1.4
CHM0300251	2	-DIN8	25	22	36	79.58	85.6	28	56	6	24.8	10.44	1.5
CHM0300252	1	-DIN8	25	25	36	79.58	85.6	28	30	8	28.3	10.85	0.8
CHM0300253	2	-DIN8	25	25	44	79.58	85.6	28	60	8	28.3	10.85	1.6
CHM0300254	1	-DIN8	25	30	45	79.58	85.6	28	30	8	33.3	10.85	0.8
CHM0300255	2	-DIN8	25	30	50	79.58	85.6	28	60	8	33.3	10.85	1.6
CHM0300256	2	-DIN8	25	32	55	79.58	85.6	28	65	10	35.3	10.85	1.8
CHM0300257	1	-DIN8	25	35	48	79.58	85.6	28	30	10	38.3	10.85	0.8
CHM0300258	2	-DIN8	25	35	55	79.58	85.6	28	65	10	38.3	10.85	1.8
CHM0300259	1	-DIN8	25	40	70	79.58	85.6	28	50	12	43.3	10.85	1.4
CHM03002510	2	-DIN8	25	40	62	79.58	85.6	28	65	12	43.3	10.85	1.8
CHM0300281	2	-DIN8	28	32	55	89.13	95.1	28	65	10	35.3	11.18	2.2
CHM0300282	2	-DIN8	28	40	62	89.13	95.1	28	65	12	43.3	11.18	2.2
CHM0300321	2	-DIN8	32	32	55	101.86	107.85	28	65	10	35.3	11.55	2.8
CHM0300322	2	-DIN8	32	40	62	101.86	107.85	28	65	12	43.3	11.55	2.8



斜齒
Helical
DIN

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CHM-DIN8

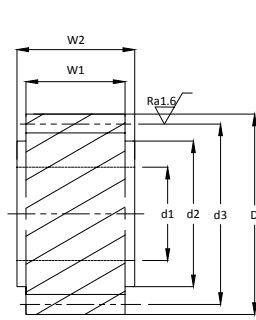


圖1 / Fig. 1

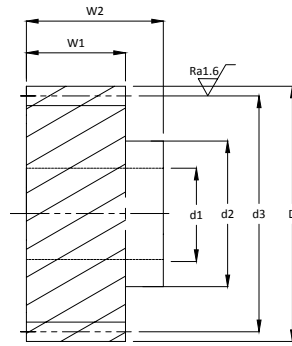


圖2 / Fig. 2

單位 / Dimension : mm

系列 CHM-DIN8 斜齒齒輪
品質等級 DIN 8

材料 S50C
左旋角 19°31'42"

Series CHM-DIN8 Helical Soft Pinions
Quality Grade DIN 8

Material S50C
Left Hand Angle 19°31'42"



型號 Code	圖 Fig.	DIN	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 4 / Module 4													
CHM0400151	1	-DIN8	15	35	52	63.66	71.7	40	50	10	38.3	17.32	0.8
CHM0400181	2	-DIN8	18	32	55	76.39	84.4	40	75	10	35.3	18.59	1.6
CHM0400201	1	-DIN8	20	35	52	84.88	92.9	40	50	10	38.3	19.29	1.3
CHM0400202	1	-DIN8	20	45	65	84.88	92.9	40	50	14	48.8	19.29	1.3
CHM0400211	2	-DIN8	21	32	55	89.13	97.1	40	75	10	35.3	19.50	2.2
CHM0400212	2	-DIN8	21	35	55	89.13	97.1	40	75	10	38.3	19.50	2.2
CHM0400213	2	-DIN8	21	40	62	89.13	97.1	40	75	12	43.3	19.50	2.2
CHM0400214	2	-DIN8	21	45	68	89.13	97.1	40	75	14	48.8	19.50	2.2
CHM0400221	1	-DIN8	22	35	52	93.37	101.4	40	50	10	38.3	19.88	1.6
CHM0400222	1	-DIN8	22	45	65	93.37	101.4	40	50	14	48.8	19.88	1.6
CHM0400241	2	-DIN8	24	32	55	101.86	109.9	40	75	10	35.3	20.42	2.8
CHM0400242	2	-DIN8	24	35	55	101.86	109.9	40	75	10	38.3	20.42	2.8
CHM0400243	2	-DIN8	24	40	62	101.86	109.9	40	75	12	43.3	20.42	2.8
CHM0400244	2	-DIN8	24	45	68	101.86	109.9	40	75	14	48.8	20.42	2.8
CHM0400245	2	-DIN8	24	55	80	101.86	109.9	40	80	16	59.3	20.42	3.0
CHM0400251	1	-DIN8	25	35	52	106.1	114.1	40	50	10	38.3	20.66	2.0
CHM0400252	1	-DIN8	25	45	65	106.1	114.1	40	50	14	48.8	20.66	2.0
CHM0400253	2	-DIN8	25	55	80	106.1	114.1	40	80	16	59.3	20.66	3.2
模數 5 / Module 5													
CHM0500181	2	-DIN8	18	45	68	95.49	105.5	50	85	14	48.8	29.04	2.9
CHM0500241	2	-DIN8	24	45	68	127.32	137.3	50	85	14	48.8	31.91	4.9
CHM0500242	2	-DIN8	24	55	80	127.32	137.3	50	90	16	59.3	31.91	5.2
CHM0500243	2	-DIN8	24	75	110	127.32	137.3	50	110	20	79.9	31.91	6.4
模數 6 / Module 6													
CHM0600201	2	-DIN8	20	55	80	127.32	139.3	60	100	16	59.3	43.42	6.0
CHM0600202	2	-DIN8	20	75	110	127.32	139.3	60	120	20	79.9	43.42	7.2
CHM0600251	2	-DIN8	25	55	80	159.16	171.2	60	100	16	59.3	46.49	9.0
CHM0600252	2	-DIN8	25	75	110	159.16	171.2	60	120	20	79.9	46.49	10.8
模數 8 / Module 8													
CHM0800181	2	-DIN8	18	75	110	152.79	168.8	80	140	20	79.9	74.36	12.3
CHM0800202	2	-DIN8	20	85	125	169.8	185.8	80	145	22	90.4	77.19	15.4
模數 10 / Module 10													
CHM1000201	2	-DIN8	20	85	125	212.21	232.2	100	165	22	90.4	155.06	27.4

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

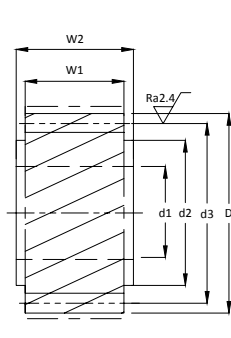


圖1 / Fig. 1

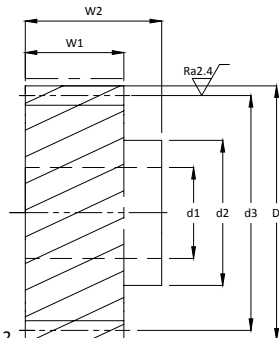
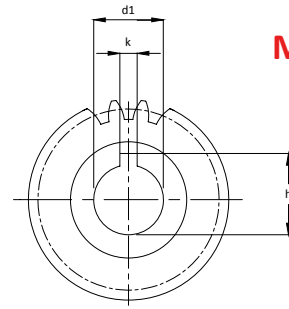


圖2 / Fig. 2



MHMH-DIN10

單位 / Dimension : mm

系列 MHMH-DIN 10 斜齒硬化齒輪
品質等級 DIN 10

Series MHMH-DIN10 Helical Hardened Pinions
Quality Grade DIN 10

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 55~60°

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 55~60°

硬化處理後表面噴砂處理

Sand-blasted on surfaces after hardening.

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1.5 / Module 1.5													
MHMH0150201	1	-DIN10	20	11	25	31.83	34.83	20	22	4	12.8	5.25	0.1
MHMH0150202	1	-DIN10	20	13	25	31.83	34.83	20	22	5	15.3	5.25	0.1
MHMH0150203	1	-DIN10	20	14	25	31.83	34.83	20	22	5	16.3	5.25	0.1
MHMH0150204	1	-DIN10	20	16	25	31.83	34.83	20	22	5	18.3	5.25	0.1
MHMH0150211	2	-DIN10	21	16	30	33.42	36.42	20	46	5	18.3	5.30	0.3
模數 2 / Module 2													
MHMH0200181	1	-DIN10	18	16	25	38.197	42.2	28	30	5	18.3	9.44	0.2
MHMH0200201	1	-DIN10	20	19	30	42.44	46.4	28	30	6	21.8	9.80	0.3
MHMH0200202	2	-DIN10	20	19	30	42.44	46.4	28	56	6	21.8	9.80	0.6
MHMH0200203	1	-DIN10	20	20	30	42.44	46.4	28	30	6	22.8	9.80	0.3
MHMH0200204	2	-DIN10	20	22	36	42.44	46.4	28	56	6	24.8	9.80	0.6
MHMH0200205	1	-DIN10	20	22	30	42.44	46.4	28	30	6	24.8	9.80	0.3
MHMH0200211	1	-DIN10	21	16	25	44.56	48.6	28	30	5	18.3	9.90	0.3
MHMH0200212	2	-DIN10	21	22	36	44.56	48.6	28	30	6	24.8	9.90	0.3
MHMH0200221	1	-DIN10	22	19	30	46.69	50.7	28	30	6	21.8	10.10	0.4
MHMH0200222	2	-DIN10	22	19	30	46.69	50.7	28	56	6	21.8	10.10	0.7
MHMH0200223	1	-DIN10	22	22	30	46.69	50.7	28	30	6	24.8	10.10	0.4
MHMH0200224	2	-DIN10	22	22	36	46.69	50.7	28	56	6	24.8	10.10	0.7
MHMH0200251	1	-DIN10	25	19	30	53.05	57.1	28	30	6	21.8	10.50	0.5
MHMH0200252	2	-DIN10	25	19	30	53.05	57.1	28	56	6	21.8	10.50	0.8
MHMH0200253	1	-DIN10	25	20	30	53.05	57.1	28	30	6	22.8	10.50	0.5
MHMH0200254	1	-DIN10	25	22	30	53.05	57.1	28	30	6	24.8	10.50	0.5
MHMH0200255	2	-DIN10	25	22	36	53.05	57.1	28	56	6	24.8	10.50	0.8
MHMH0200256	1	-DIN10	25	25	36	53.05	57.1	28	30	6	27.8	10.50	0.5
MHMH0200281	1	-DIN10	28	19	30	59.42	63.4	28	30	6	21.8	10.82	0.6
MHMH0200282	2	-DIN10	28	19	30	59.42	63.4	28	56	6	21.8	10.82	1.0
MHMH0200283	1	-DIN10	28	22	30	59.42	63.4	28	30	6	24.8	10.82	0.6
MHMH0200284	2	-DIN10	28	22	36	59.42	63.4	28	56	6	24.8	10.82	1.0
MHMH0200285	1	-DIN10	28	35	48	59.42	63.4	28	30	10	38.3	10.82	0.6
MHMH0200301	1	-DIN10	30	16	25	63.66	67.7	28	30	5	18.3	11.01	0.6
MHMH0200302	1	-DIN10	30	20	30	63.66	67.7	28	30	6	22.8	11.01	0.6
MHMH0200303	2	-DIN10	30	22	36	63.66	67.7	28	56	6	24.8	11.01	1.2
MHMH0200304	1	-DIN10	30	25	36	63.66	67.7	28	30	8	28.3	11.01	0.6
MHMH0200305	1	-DIN10	30	30	45	63.66	67.7	28	30	8	33.3	11.01	0.6
MHMH0200306	2	-DIN10	30	30	50	63.66	67.7	28	60	8	33.3	11.01	1.3
MHMH0200307	2	-DIN10	30	32	55	63.66	67.7	28	65	10	35.3	11.01	1.4
MHMH0200321	1	-DIN10	32	20	30	67.91	71.9	28	30	6	22.8	11.17	0.7
MHMH0200322	1	-DIN10	32	22	30	67.91	71.9	28	30	6	24.8	11.17	0.7
MHMH0200323	2	-DIN10	32	22	36	67.91	71.9	28	56	6	27.8	11.17	1.3
MHMH0200324	1	-DIN10	32	25	36	67.91	71.9	28	30	8	28.3	11.17	0.7
MHMH0200325	1	-DIN10	32	35	48	67.91	71.9	28	30	10	38.3	11.17	0.7
MHMH0200361	1	-DIN10	36	35	48	76.39	80.4	28	30	10	38.3	11.46	0.9
MHMH0200391	2	-DIN10	39	32	55	82.76	86.8	28	65	10	35.3	11.65	2.3
MHMH0200401	1	-DIN10	40	35	48	84.88	88.9	28	30	10	38.3	11.70	1.1

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.



MHMH-DIN10

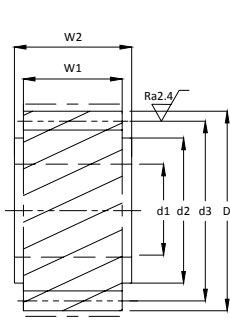


圖1 / Fig. 1

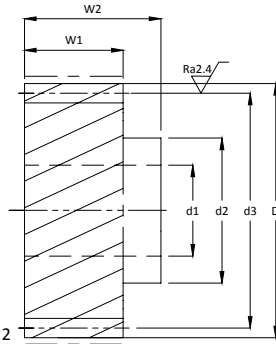
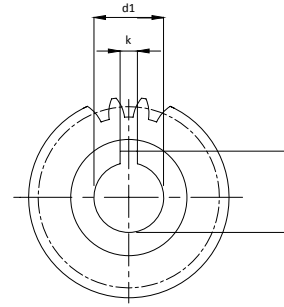


圖2 / Fig. 2



單位 / Dimension : mm

系列 MHMH-DIN 10 斜齒硬化齒輪
品質等級 DIN 10

Series MHMH-DIN10 Helical Hardened Pinions
Quality Grade DIN 10

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 55~60°

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 55~60°

硬化處理後表面噴砂處理

Sand-blasted on surfaces after hardening.



型號 Code	圖 Fig.	DIN	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3													
MHMH0300201	2	-DIN10	20	22	36	63.66	69.7	28	56	6	24.8	14.70	1.0
MHMH0300202	2	-DIN10	20	25	44	63.66	69.7	28	60	8	28.3	14.70	1.1
MHMH0300203	1	-DIN10	20	30	45	63.66	69.7	28	30	8	33.3	14.70	0.5
MHMH0300204	2	-DIN10	20	30	50	63.66	69.7	28	60	8	33.3	14.70	1.1
MHMH0300205	2	-DIN10	20	32	55	63.66	69.7	28	65	10	35.3	14.70	1.2
MHMH0300206	1	-DIN10	20	35	48	63.66	69.7	28	30	10	38.3	14.70	0.5
MHMH0300221	1	-DIN10	22	25	36	70.03	76	28	30	8	28.3	15.15	0.6
MHMH0300222	1	-DIN10	22	30	45	70.03	76	28	30	8	33.3	15.15	0.6
MHMH0300223	2	-DIN10	22	32	55	70.03	76	28	65	10	35.3	15.15	1.4
MHMH0300224	1	-DIN10	22	35	48	70.03	76	28	30	10	38.3	15.15	0.6
MHMH0300225	2	-DIN10	22	40	62	70.03	76	28	65	12	43.3	15.15	1.4
MHMH0300251	2	-DIN10	25	22	36	79.58	85.6	28	56	6	24.8	15.75	1.5
MHMH0300252	1	-DIN10	25	25	36	79.58	85.6	28	30	8	28.3	15.75	0.8
MHMH0300253	2	-DIN10	25	25	44	79.58	85.6	28	60	8	28.3	15.75	1.6
MHMH0300254	1	-DIN10	25	30	45	79.58	85.6	28	30	8	33.3	15.75	0.8
MHMH0300255	2	-DIN10	25	30	50	79.58	85.6	28	60	8	33.3	15.75	1.6
MHMH0300256	2	-DIN10	25	32	55	79.58	85.6	28	65	10	35.3	15.75	1.8
MHMH0300257	1	-DIN10	25	35	48	79.58	85.6	28	30	10	38.3	15.75	0.8
MHMH0300258	2	-DIN10	25	35	55	79.58	85.6	28	65	10	38.3	15.75	1.8
MHMH0300259	1	-DIN10	25	40	70	79.58	85.6	28	50	12	43.3	15.75	1.4
MHMH03002510	2	-DIN10	25	40	62	79.58	85.6	28	65	12	43.3	15.75	1.8
MHMH0300281	2	-DIN10	28	32	55	89.13	95.1	28	65	10	35.3	16.23	2.2
MHMH0300282	2	-DIN10	28	40	62	89.13	95.1	28	65	12	43.3	16.23	2.2
MHMH0300321	2	-DIN10	32	32	55	101.86	107.85	28	65	10	35.3	16.76	2.8
MHMH0300322	2	-DIN10	32	40	62	101.86	107.85	28	65	12	43.3	16.76	2.8

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

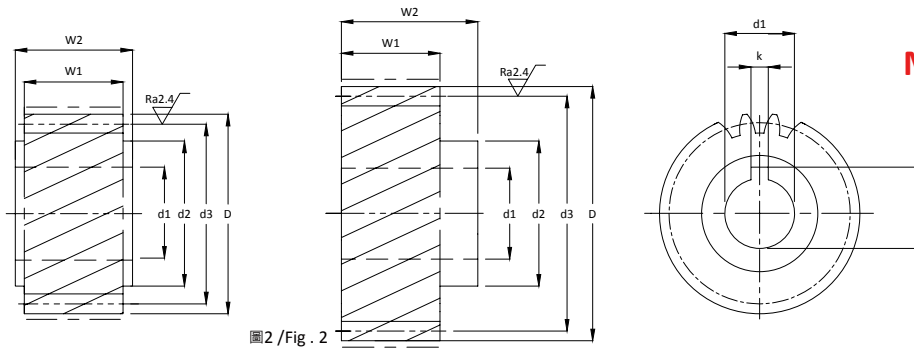


圖1 / Fig. 1

圖2 / Fig. 2

單位 / Dimension : mm

MHMH-DIN10

系列 MHMH-DIN 10 斜齒硬化齒輪
品質等級 DIN 10

Series MHMH-DIN10 Helical Hardened Pinions
Quality Grade DIN 10

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 55~60°

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 55~60°

硬化處理後表面噴砂處理

Sand-blasted on surfaces after h ardening.

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 4 / Module 4													
MHMH0400151	1	-DIN10	15	35	52	63.66	71.7	40	50	10	38.3	25.15	0.8
MHMH0400181	2	-DIN10	18	32	55	76.39	84.4	40	75	10	35.3	26.98	1.6
MHMH0400201	1	-DIN10	20	35	52	84.88	92.9	40	50	10	38.3	28.01	1.3
MHMH0400202	1	-DIN10	20	45	65	84.88	92.9	40	50	14	48.8	28.01	1.3
MHMH0400211	2	-DIN10	21	32	55	89.13	97.1	40	75	10	35.3	28.31	2.2
MHMH0400212	2	-DIN10	21	35	55	89.13	97.1	40	75	10	38.3	28.31	2.2
MHMH0400213	2	-DIN10	21	40	62	89.13	97.1	40	75	12	43.3	28.31	2.2
MHMH0400214	2	-DIN10	21	45	68	89.13	97.1	40	75	14	48.8	28.31	2.2
MHMH0400221	1	-DIN10	22	35	52	93.37	101.4	40	50	10	38.3	28.87	1.6
MHMH0400222	1	-DIN10	22	45	65	93.37	101.4	40	50	14	48.8	28.87	1.6
MHMH0400241	2	-DIN10	24	32	55	101.86	109.9	40	75	10	35.3	29.64	2.8
MHMH0400242	2	-DIN10	24	35	55	101.86	109.9	40	75	10	38.3	29.64	2.8
MHMH0400243	2	-DIN10	24	40	62	101.86	109.9	40	75	12	43.3	29.64	2.8
MHMH0400244	2	-DIN10	24	45	68	101.86	109.9	40	75	14	48.8	29.64	2.8
MHMH0400245	2	-DIN10	24	55	80	101.86	109.9	40	80	16	59.3	29.64	3.0
MHMH0400251	1	-DIN10	25	35	52	106.1	114.1	40	50	10	38.3	30.00	2.0
MHMH0400252	1	-DIN10	25	45	65	106.1	114.1	40	50	14	48.8	30.00	2.0
MHMH0400253	2	-DIN10	25	55	80	106.1	114.1	40	80	16	59.3	30.00	3.2
模數 5 / Module 5													
MHMH0500181	2	-DIN10	18	45	68	95.49	105.5	50	85	14	48.8	42.16	2.9
MHMH0500241	2	-DIN10	24	45	68	127.32	137.3	50	85	14	48.8	46.32	4.9
MHMH0500242	2	-DIN10	24	55	80	127.32	137.3	50	90	16	59.3	46.32	5.2
MHMH0500243	2	-DIN10	24	75	110	127.32	137.3	50	110	20	79.9	46.32	6.4
模數 6 / Module 6													
MHMH0600201	2	-DIN10	20	55	80	127.32	139.3	60	100	16	59.3	60.03	6.0
MHMH0600202	2	-DIN10	20	75	110	127.32	139.3	60	120	20	79.9	60.03	7.2
MHMH0600251	2	-DIN10	25	55	80	159.16	171.2	60	100	16	59.3	67.50	9.0
MHMH0600252	2	-DIN10	25	75	110	159.16	171.2	60	120	20	79.9	67.50	10.8
模數 8 / Module 8													
MHMH0800181	2	-DIN10	18	75	110	152.79	168.8	80	140	20	79.9	107.95	12.3
MHMH0800201	2	-DIN10	20	85	125	169.8	185.8	80	145	22	90.4	112.05	15.4
模數 10 / Module 10													
MHMH1000201	2	-DIN10	20	85	125	212.21	232.2	100	165	22	90.4	175.08	27.4



MSGH-DIN6

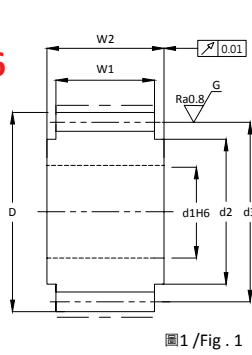


圖1 / Fig. 1

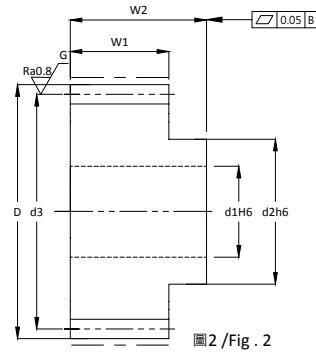
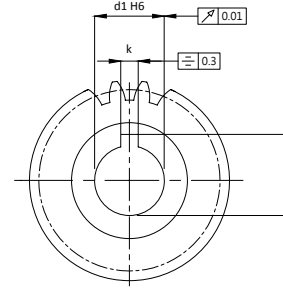


圖2 / Fig. 2



單位 / Dimension : mm

系列 MSGH-DIN6 直齒齒研齒輪
品質等級 DIN 6

材料 SCM415/SCM440
硬度 HRC 55°~60°

硬化處理後齒面研磨

Series MSGH-DIN6 Straight Teeth Ground Pinions
Quality Grade DIN 6

Material SCM415/SCM440
Hardness: HRC 55°~60°

Teeth Ground after Hardening



型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2 / Module 2													
MSGH0200161	1	-DIN6	16	15	25	32	36	28	30	5	17.3	12.74	0.2
MSGH0200181	1	-DIN6	18	15	30	36	40	28	30	5	17.3	10.14	0.2
MSGH0200182	1	-DIN6	18	20	25	36	40	28	30	6	22.8	10.14	0.2
MSGH0200201	1	-DIN6	20	15	25	40	44	28	30	6	17.8	10.57	0.3
MSGH0200202	1	-DIN6	20	19	30	40	44	28	30	6	21.8	10.57	0.3
MSGH0200203	2	-DIN6	20	19	30	40	44	28	56	6	21.8	10.57	0.5
MSGH0200204	1	-DIN6	20	20	30	40	44	28	30	6	22.8	10.57	0.3
MSGH0200205	1	-DIN6	20	22	30	40	44	28	30	6	24.8	10.57	0.3
MSGH0200206	2	-DIN6	20	22	36	40	44	28	56	6	24.8	10.57	0.5
MSGH0200221	1	-DIN6	22	15	25	44	48	28	30	5	17.3	10.95	0.3
MSGH0200222	1	-DIN6	22	19	30	44	48	28	30	6	21.8	10.95	0.3
MSGH0200223	2	-DIN6	22	19	30	44	48	28	56	6	21.8	10.95	0.6
MSGH0200224	1	-DIN6	22	20	30	44	48	28	30	6	22.8	10.95	0.3
MSGH0200225	2	-DIN6	22	22	36	44	48	28	56	6	24.8	10.95	0.6
MSGH0200226	1	-DIN6	22	22	30	44	48	28	30	6	24.8	10.95	0.3
MSGH0200227	1	-DIN6	22	25	36	44	48	28	30	8	28.3	10.95	0.3
MSGH0200251	2	-DIN6	25	16	30	50	54	28	54	5	18.3	11.36	0.7
MSGH0200252	1	-DIN6	25	19	30	50	54	28	30	6	21.8	11.36	0.4
MSGH0200253	2	-DIN6	25	19	30	50	54	28	56	6	21.8	11.36	0.8
MSGH0200254	1	-DIN6	25	20	30	50	54	28	30	6	22.8	11.36	0.4
MSGH0200255	1	-DIN6	25	22	30	50	54	28	30	6	24.8	11.36	0.4
MSGH0200256	2	-DIN6	25	22	36	50	54	28	56	6	24.8	11.36	0.8
MSGH0200257	1	-DIN6	25	25	36	50	54	28	30	8	28.3	11.36	0.4
MSGH0200258	1	-DIN6	25	30	45	50	54	28	30	8	33.3	11.36	0.4
MSGH0200281	1	-DIN6	28	19	30	56	60	28	30	6	21.8	11.82	0.5
MSGH0200282	2	-DIN6	28	19	30	56	60	28	56	6	21.8	11.82	0.9
MSGH0200283	1	-DIN6	28	20	30	56	60	28	30	6	22.8	11.82	0.5
MSGH0200284	1	-DIN6	28	22	30	56	60	28	30	6	24.8	11.82	0.5
MSGH0200285	2	-DIN6	28	22	36	56	60	28	56	6	24.8	11.82	0.9
MSGH0200286	1	-DIN6	28	25	36	56	60	28	30	8	28.3	11.82	0.5
MSGH0200287	1	-DIN6	28	30	45	56	60	28	30	8	33.3	11.82	0.5
MSGH0200288	2	-DIN6	28	30	50	56	60	28	60	8	33.3	11.82	1.0
MSGH0200289	1	-DIN6	28	35	48	56	60	28	30	10	38.3	11.82	0.5
MSGH0200321	2	-DIN6	32	16	30	64	68	28	54	5	18.3	12.26	1.2
MSGH0200322	1	-DIN6	32	20	30	64	68	28	30	6	22.8	12.26	0.6
MSGH0200323	1	-DIN6	32	22	30	64	68	28	30	6	24.8	12.26	0.6
MSGH0200324	2	-DIN6	32	22	36	64	68	28	56	6	24.8	12.26	1.2
MSGH0200325	1	-DIN6	32	25	36	64	68	28	30	8	28.3	12.26	0.6
MSGH0200326	1	-DIN6	32	30	45	64	68	28	30	8	33.3	12.26	0.6
MSGH0200327	2	-DIN6	32	30	50	64	68	28	60	8	33.3	12.26	1.3
MSGH0200328	2	-DIN6	32	32	55	64	68	28	65	10	35.3	12.26	1.4
MSGH0200329	1	-DIN6	32	35	48	64	68	28	30	10	38.3	12.26	0.6
MSGH0200361	1	-DIN6	36	20	30	72	76	28	30	6	22.8	12.64	0.8

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

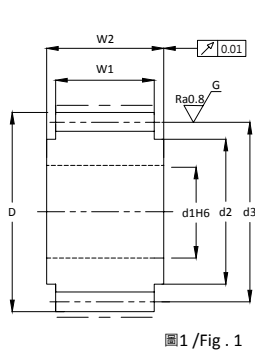


圖1 / Fig . 1

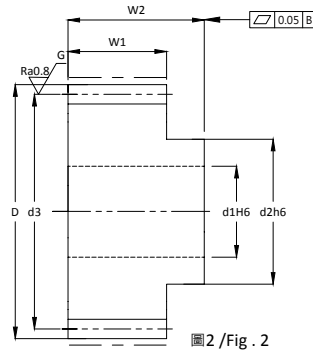
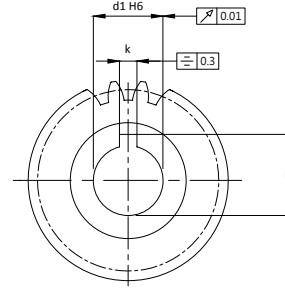


圖2 / Fig . 2



MSGH-DIN6

單位 / Dimension : mm

系列 MSGH-DIN6 直齒齒研齒輪
品質等級 DIN 6

Series MSGH-DIN6 Straight Teeth Ground Pinions
Quality Grade DIN 6

材料 SCM415/SCM440
硬度 HRC 55°~60°

Material SCM415/SCM440
Hardness: HRC 55°~60°

硬化處理後齒面研磨

Teeth Ground after Hardening

型號 Code	圖 Fig.	DIN	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2 / Module 2													
MSGH0200362	1	-DIN6	36	25	36	72	76	28	30	8	28.3	12.64	0.8
MSGH0200363	1	-DIN6	36	30	45	72	76	28	30	8	33.3	12.64	0.8
MSGH0200364	1	-DIN6	36	35	48	72	76	28	30	10	38.3	12.64	0.8
MSGH0200365	2	-DIN6	36	40	62	72	76	28	65	12	43.3	12.64	1.7
MSGH0200366	1	-DIN6	36	45	58	72	76	28	30	14	48.8	12.64	0.8
MSGH0200401	1	-DIN6	40	15	36	80	84	28	30	5	17.3	12.94	1.0
MSGH0200402	1	-DIN6	40	20	30	80	84	28	30	6	22.8	12.94	1.0
MSGH0200403	1	-DIN6	40	25	36	80	84	28	30	8	28.3	12.94	1.0
MSGH0200404	1	-DIN6	40	30	45	80	84	28	30	8	33.3	12.94	1.0
MSGH0200405	2	-DIN6	40	32	55	80	84	28	65	10	35.3	12.94	2.1
MSGH0200406	1	-DIN6	40	35	48	80	84	28	30	10	38.3	12.94	1.0
MSGH0200407	2	-DIN6	40	40	62	80	84	28	65	12	43.3	12.94	2.1
MSGH0200408	1	-DIN6	40	45	58	80	84	28	30	14	48.8	12.94	1.0
MSGH0200409	2	-DIN6	40	45	68	80	84	28	65	14	48.8	12.94	2.1
MSGH0200451	1	-DIN6	45	20	30	90	94	28	30	6	22.8	13.25	1.2
MSGH0200452	1	-DIN6	45	25	36	90	94	28	30	8	28.3	13.25	1.2
MSGH0200453	1	-DIN6	45	35	48	90	94	28	30	10	38.3	13.25	1.2
MSGH0200454	1	-DIN6	45	45	58	90	94	28	30	14	48.8	13.25	1.2
MSGH0200501	1	-DIN6	50	20	30	100	104	28	30	6	22.8	13.51	1.5
MSGH0200502	1	-DIN6	50	25	36	100	104	28	30	8	28.3	13.51	1.5
MSGH0200503	1	-DIN6	50	35	48	100	104	28	30	10	38.3	13.51	1.5
MSGH0200504	1	-DIN6	50	45	58	100	104	28	30	14	48.8	13.51	1.5
MSGH0200505	2	-DIN6	50	45	68	100	104	28	65	14	48.8	13.51	3.3
MSGH0200561	1	-DIN6	56	25	36	112	116	28	30	8	28.3	13.74	1.9
MSGH0200562	1	-DIN6	56	35	48	112	116	28	30	10	38.3	13.74	1.9



直齒 Straight
DIN

MSGH-DIN6

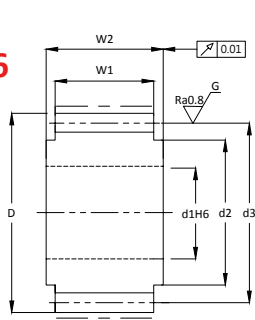


圖1 / Fig. 1

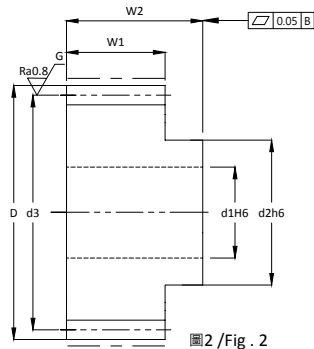
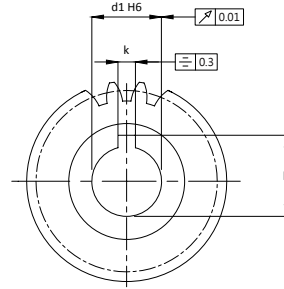


圖2 / Fig. 2



單位 / Dimension : mm

系列 MSGH-DIN6 直齒齒研齒輪
品質等級 DIN 6

Series MSGH-DIN6 Straight Teeth Ground Pinions
Quality Grade DIN 6

材料 SCM415/SCM440
硬度 HRC 55°~60°

Material SCM415/SCM440
Hardness: HRC 55°~60°

硬化處理後齒面研磨

Teeth Ground after Hardening



型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3													
MSGH0300181	1	-DIN6	18	25	36	54	60	28	30	8	28.3	15.21	0.4
MSGH0300201	1	-DIN6	20	25	36	60	66	28	30	8	28.3	15.86	0.5
MSGH0300202	1	-DIN6	20	30	45	60	66	28	30	8	33.3	15.86	0.5
MSGH0300203	1	-DIN6	20	35	48	60	66	28	30	10	38.3	15.86	0.5
MSGH0300221	2	-DIN6	22	22	36	66	72	28	56	6	24.8	16.42	1.1
MSGH0300222	1	-DIN6	22	25	36	66	72	28	30	8	28.3	16.42	0.6
MSGH0300223	2	-DIN6	22	25	44	66	72	28	60	8	28.3	16.42	1.2
MSGH0300224	1	-DIN6	22	30	45	66	72	28	30	8	33.3	16.42	0.6
MSGH0300225	2	-DIN6	22	32	55	66	72	28	65	10	35.3	16.42	1.2
MSGH0300226	2	-DIN6	22	30	50	66	72	28	60	8	33.3	16.42	1.2
MSGH0300227	1	-DIN6	22	35	48	66	72	28	30	10	38.3	16.42	0.6
MSGH0300228	2	-DIN6	22	35	55	66	72	28	65	10	38.3	16.42	1.2
MSGH0300229	2	-DIN6	22	40	62	66	72	28	65	12	43.3	16.42	1.2
MSGH0300251	1	-DIN6	25	25	36	75	81	28	30	8	28.3	17.04	0.7
MSGH0300252	1	-DIN6	25	30	45	75	81	28	30	8	33.3	17.04	0.7
MSGH0300253	2	-DIN6	25	32	55	75	81	28	65	10	35.3	17.04	1.6
MSGH0300254	1	-DIN6	25	35	48	75	81	28	30	10	38.3	17.04	0.7
MSGH0300255	2	-DIN6	25	40	62	75	81	28	65	12	43.3	17.04	1.6
MSGH0300256	1	-DIN6	25	45	58	75	81	28	30	14	48.8	17.04	0.7
MSGH0300281	2	-DIN6	28	22	36	84	90	28	56	6	24.8	17.74	1.7
MSGH0300282	1	-DIN6	28	25	36	84	90	28	30	8	28.3	17.74	0.9
MSGH0300283	2	-DIN6	28	25	44	84	90	28	60	8	28.3	17.74	1.8
MSGH0300284	1	-DIN6	28	30	45	84	90	28	30	8	33.3	17.74	0.9
MSGH0300285	2	-DIN6	28	30	50	84	90	28	60	8	33.3	17.74	1.8
MSGH0300286	2	-DIN6	28	32	55	84	90	28	65	10	35.3	17.74	1.9
MSGH0300287	1	-DIN6	28	35	48	84	90	28	30	10	38.3	17.74	0.9
MSGH0300288	2	-DIN6	28	35	55	84	90	28	65	10	38.3	17.74	1.9
MSGH0300289	2	-DIN6	28	40	62	84	90	28	65	12	43.3	17.74	1.9
MSGH03002810	1	-DIN6	28	45	58	84	90	28	30	14	48.8	17.74	0.9
MSGH03002811	2	-DIN6	28	45	68	84	90	28	65	14	48.8	17.74	1.9
MSGH0300321	1	-DIN6	32	25	36	96	102	28	30	8	28.3	18.39	1.2
MSGH0300322	1	-DIN6	32	30	45	96	102	28	30	8	33.3	18.39	1.2
MSGH0300323	2	-DIN6	32	32	55	96	102	28	65	10	35.3	18.39	2.5
MSGH0300324	1	-DIN6	32	35	48	96	102	28	30	10	38.3	18.39	1.2
MSGH0300325	2	-DIN6	32	40	62	96	102	28	65	12	43.3	18.39	2.5
MSGH0300326	1	-DIN6	32	45	58	96	102	28	30	14	48.8	18.39	1.2
MSGH0300327	1	-DIN6	32	60	80	96	102	28	30	18	64.4	18.39	1.2
MSGH0300361	1	-DIN6	36	25	36	108	114	28	30	8	28.3	18.96	1.4
MSGH0300362	1	-DIN6	36	35	48	108	114	28	30	10	38.3	18.96	1.4
MSGH0300363	1	-DIN6	36	45	58	108	114	28	30	14	48.8	18.96	1.4
MSGH0300364	2	-DIN6	36	45	68	108	114	28	65	14	48.8	18.96	1.3
MSGH0300365	1	-DIN6	36	60	80	108	114	28	30	18	64.4	18.96	1.4
MSGH0300401	1	-DIN6	40	25	36	120	126	28	30	8	28.3	19.42	1.8

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

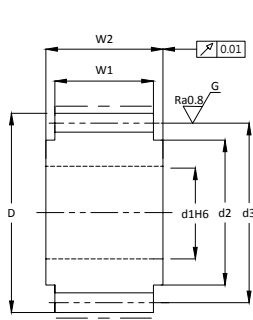


圖1 / Fig. 1

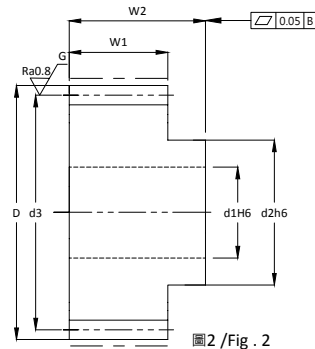
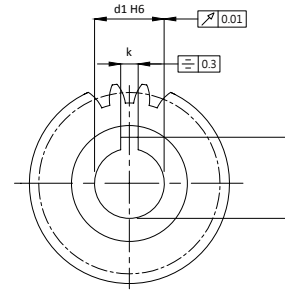


圖2 / Fig. 2



MSGH-DIN6

單位 / Dimension : mm

系列 MSGH-DIN6 直齒齒研齒輪
品質等級 DIN 6

Series MSGH-DIN6 Straight Teeth Ground Pinions
Quality Grade DIN 6

材料 SCM415/SCM440
硬度 HRC 55°~60°

Material SCM415/SCM440
Hardness: HRC 55°~60°

硬化處理後齒面研磨

Teeth Ground after Hardening

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3													
MSGH0300402	1	-DIN6	40	35	48	120	126	28	30	10	38.3	19.42	1.8
MSGH0300403	1	-DIN6	40	45	58	120	126	28	30	14	48.8	19.42	1.8
MSGH0300404	1	-DIN6	40	60	80	120	126	28	30	18	64.4	19.42	1.8
MSGH0300451	1	-DIN6	45	25	36	135	141	28	30	8	28.3	19.88	2.2
MSGH0300452	1	-DIN6	45	35	48	135	141	28	30	10	38.3	19.88	2.2
MSGH0300453	1	-DIN6	45	45	58	135	141	28	30	14	48.8	19.88	2.2
MSGH0300454	1	-DIN6	45	60	80	135	141	28	30	18	64.4	19.88	2.2
MSGH0300501	1	-DIN6	50	35	48	150	156	28	30	10	38.3	20.26	2.7
MSGH0300502	1	-DIN6	50	45	58	150	156	28	30	14	48.8	20.26	2.7
MSGH0300561	1	-DIN6	56	45	58	168	174	28	30	14	48.8	20.61	3.4
MSGH0300631	1	-DIN6	63	45	58	189	195	28	30	14	48.8	20.97	4.2
MSGH0300632	1	-DIN6	63	60	80	189	195	28	30	18	64.4	20.97	4.2



直齒 Straight

DIN

MSGH-DIN6

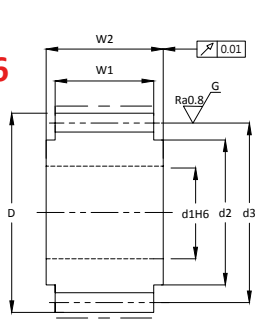


圖1 / Fig. 1

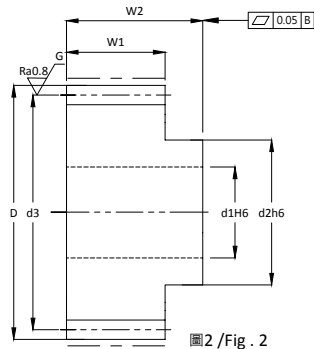
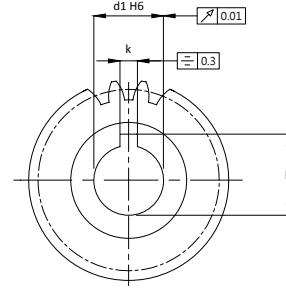


圖2 / Fig. 2



單位 / Dimension : mm

系列 MSGH-DIN6 直齒齒研齒輪
品質等級 DIN 6

Series MSGH-DIN6 Straight Teeth Ground Pinions
Quality Grade DIN 6

材料 SCM415/SCM440
硬度 HRC 55~60°

Material SCM415/SCM440
Hardness: HRC 55~60°

硬化處理後齒面研磨

Teeth Ground after Hardening



型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 4 / Module 4													
MSGH0400201	2	-DIN6	20	32	55	80	88	40	75	10	35.3	30.21	1.8
MSGH0400202	1	-DIN6	20	35	52	80	88	40	50	10	38.3	30.21	1.2
MSGH0400203	2	-DIN6	20	35	55	80	88	40	75	10	38.3	30.21	1.8
MSGH0400204	1	-DIN6	20	45	65	80	88	40	50	14	48.8	30.21	1.2
MSGH0400205	2	-DIN6	20	40	62	80	88	40	75	12	43.3	30.21	1.8
MSGH0400221	1	-DIN6	22	35	52	88	96	40	50	10	38.3	31.29	1.4
MSGH0400222	1	-DIN6	22	45	65	88	96	40	50	14	48.8	31.29	1.4
MSGH0400223	2	-DIN6	22	45	68	88	96	40	75	14	48.8	31.29	2.1
MSGH0400251	2	-DIN6	25	32	55	100	108	40	75	10	35.3	32.46	2.7
MSGH0400252	1	-DIN6	25	35	52	100	108	40	50	10	38.3	32.46	1.8
MSGH0400253	2	-DIN6	25	35	55	100	108	40	75	10	38.3	32.46	2.7
MSGH0400254	2	-DIN6	25	40	62	100	108	40	75	12	43.3	32.46	2.7
MSGH0400255	1	-DIN6	25	45	65	100	108	40	50	14	48.8	32.46	1.8
MSGH0400256	2	-DIN6	25	55	80	100	108	40	80	16	59.3	32.46	2.9
MSGH0400281	1	-DIN6	28	35	52	112	120	40	50	10	38.3	33.79	2.2
MSGH0400282	1	-DIN6	28	45	65	112	120	40	50	14	48.8	33.79	2.2
MSGH0400283	2	-DIN6	28	45	68	112	120	40	75	14	48.8	33.79	3.3
MSGH0400321	1	-DIN6	32	35	52	128	136	40	50	10	38.3	35.03	2.9
MSGH0400322	1	-DIN6	32	45	65	128	136	40	50	14	48.8	35.03	2.9
MSGH0400323	2	-DIN6	32	55	80	128	136	40	80	16	59.3	35.03	4.6
MSGH0400324	2	-DIN6	32	75	110	128	136	40	100	20	79.9	35.03	5.7
MSGH0400401	1	-DIN6	40	45	65	160	168	40	50	14	48.8	36.99	4.4
MSGH0400402	1	-DIN6	40	60	80	160	168	40	50	18	64.4	36.99	4.4
MSGH0400403	2	-DIN6	40	75	110	160	168	40	100	20	79.9	36.99	8.7
模數 5 / Module 5													
MSGH0500211	2	-DIN6	21	45	68	105	115	50	85	14	48.8	48.05	3.5
MSGH0500212	2	-DIN6	21	55	80	105	115	50	90	16	59.3	48.05	3.7
MSGH0500251	2	-DIN6	25	45	68	125	135	50	85	14	48.8	50.72	4.8
MSGH0500252	2	-DIN6	25	55	80	125	135	50	90	16	59.3	50.72	5.1
MSGH0500253	2	-DIN6	25	75	110	125	135	50	110	20	79.9	50.72	6.2
模數 6 / Module 6													
MSGH0600211	2	-DIN6	21	55	80	126	138	60	100	16	59.3	69.19	5.9
MSGH0600212	2	-DIN6	21	75	110	126	138	60	120	20	79.9	69.19	7.0
MSGH0600251	2	-DIN6	25	55	80	150	162	60	100	16	59.3	73.03	8.1
MSGH0600252	2	-DIN6	25	75	110	150	162	60	120	20	79.9	73.03	9.7
模數 8 / Module 8													
MSGH0800201	2	-DIN6	20	75	110	160	176	80	140	20	79.9	120.85	13.4
MSGH0800202	2	-DIN6	20	85	125	160	176	80	145	22	90.4	120.85	13.8

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

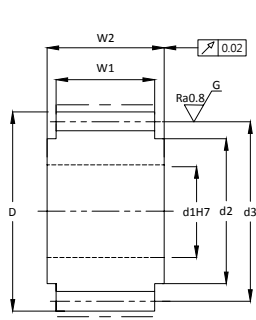


圖1 / Fig. 1

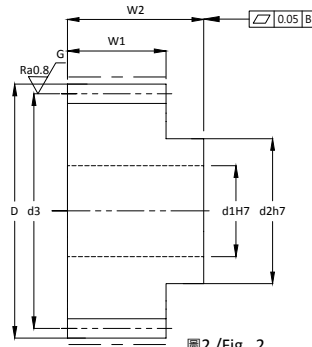
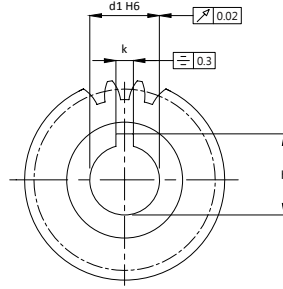


圖2 / Fig. 2



MSSH-DIN7

單位 / Dimension : mm

系列 MSSH-DIN7 直齒磨削齒輪
品質等級 DIN 7

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後齒面磨削

Series MSSH-DIN7 Straight Skiving Pinions
Quality Grade DIN 7

Material SCM415/SCM440
Hardness: HRC 55°~60°
Skiving after Hardening

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2 / Module 2													
MSSH0200161	1	-DIN7	16	15	25	32	36	28	30	5	17.3	11.68	0.2
MSSH0200181	1	-DIN7	18	15	30	36	40	28	30	5	17.3	9.29	0.2
MSSH0200182	1	-DIN7	18	20	25	36	40	28	30	6	22.8	9.29	0.2
MSSH0200201	1	-DIN7	20	15	25	40	44	28	30	6	17.8	9.69	0.3
MSSH0200202	1	-DIN7	20	19	30	40	44	28	30	6	21.8	9.29	0.3
MSSH0200203	2	-DIN7	20	19	30	40	44	28	56	6	21.8	9.69	0.5
MSSH0200204	1	-DIN7	20	20	30	40	44	28	30	6	22.8	9.29	0.3
MSSH0200205	1	-DIN7	20	22	30	40	44	28	30	6	24.8	9.69	0.3
MSSH0200206	2	-DIN7	20	22	36	40	44	28	56	6	24.8	9.29	0.5
MSSH0200221	1	-DIN7	22	15	25	44	48	28	30	5	17.3	10.03	0.3
MSSH0200222	1	-DIN7	22	19	30	44	48	28	30	6	21.8	10.03	0.3
MSSH0200223	2	-DIN7	22	19	30	44	48	28	56	6	21.8	10.03	0.6
MSSH0200224	1	-DIN7	22	20	30	44	48	28	30	6	22.8	10.03	0.3
MSSH0200225	2	-DIN7	22	22	36	44	48	28	56	6	24.8	10.03	0.6
MSSH0200226	1	-DIN7	22	22	30	44	48	28	30	6	24.8	10.03	0.3
MSSH0200227	1	-DIN7	22	25	36	44	48	28	30	8	28.3	10.03	0.3
MSSH0200251	2	-DIN7	25	16	30	50	54	28	54	5	18.3	10.41	0.7
MSSH0200252	1	-DIN7	25	19	30	50	54	28	30	6	21.8	10.41	0.4
MSSH0200253	2	-DIN7	25	19	30	50	54	28	56	6	21.8	10.41	0.8
MSSH0200254	1	-DIN7	25	20	30	50	54	28	30	6	22.8	10.41	0.4
MSSH0200255	1	-DIN7	25	22	30	50	54	28	30	6	24.8	10.41	0.4
MSSH0200256	2	-DIN7	25	22	36	50	54	28	56	6	24.8	10.41	0.8
MSSH0200257	1	-DIN7	25	25	36	50	54	28	30	8	28.3	10.41	0.4
MSSH0200258	1	-DIN7	25	30	45	50	54	28	30	8	33.3	10.41	0.4
MSSH0200281	1	-DIN7	28	19	30	56	60	28	30	6	21.8	10.84	0.5
MSSH0200282	2	-DIN7	28	19	30	56	60	28	56	6	21.8	10.84	0.9
MSSH0200283	1	-DIN7	28	20	30	56	60	28	30	6	22.8	10.84	0.5
MSSH0200284	1	-DIN7	28	22	30	56	60	28	30	6	24.8	10.84	0.5
MSSH0200285	2	-DIN7	28	22	36	56	60	28	56	6	24.8	10.84	0.9
MSSH0200286	1	-DIN7	28	25	36	56	60	28	30	8	28.3	10.84	0.5
MSSH0200287	1	-DIN7	28	30	45	56	60	28	30	8	33.3	10.84	0.5
MSSH0200288	2	-DIN7	28	30	50	56	60	28	60	8	33.3	10.84	1.0
MSSH0200289	1	-DIN7	28	35	48	56	60	28	30	10	38.3	10.84	0.5
MSSH0200321	2	-DIN7	32	16	30	64	68	28	54	5	18.3	11.24	1.2
MSSH0200322	1	-DIN7	32	20	30	64	68	28	30	6	22.8	11.24	0.6
MSSH0200323	1	-DIN7	32	22	30	64	68	28	30	6	24.8	11.24	0.6
MSSH0200324	2	-DIN7	32	22	36	64	68	28	56	6	24.8	11.24	1.2
MSSH0200325	1	-DIN7	32	25	36	64	68	28	30	8	28.3	11.24	0.6
MSSH0200326	1	-DIN7	32	30	45	64	68	28	30	8	33.3	11.24	0.6
MSSH0200327	2	-DIN7	32	30	50	64	68	28	60	8	33.3	11.24	1.3
MSSH0200328	2	-DIN7	32	32	55	64	68	28	65	10	35.3	11.24	1.4
MSSH0200329	1	-DIN7	32	35	48	64	68	28	30	10	38.3	11.24	0.6
MSSH0200361	1	-DIN7	36	20	30	72	76	28	30	6	22.8	11.59	0.8

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.



MSSH-DIN7

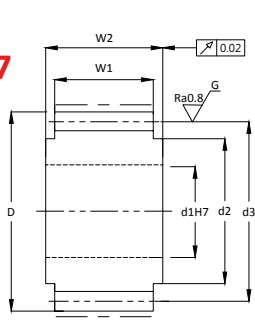


圖1 / Fig. 1

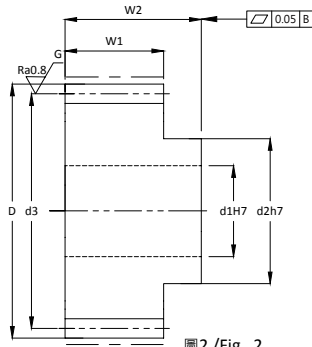
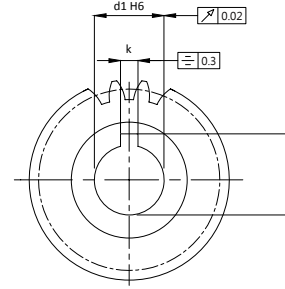


圖2 / Fig. 2



單位 / Dimension : mm

系列 MSSH-DIN7 直齒磨削齒輪
品質等級 DIN 7

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後齒面磨削

Series MSSH-DIN7 Straight Skiving Pinions
Quality Grade DIN 7

Material SCM415/SCM440
Hardness: HRC 55°~60°
Skiving after Hardening



型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2 / Module 2													
MSSH0200362	1	-DIN7	36	25	36	72	76	28	30	8	28.3	11.59	0.8
MSSH0200363	1	-DIN7	36	30	45	72	76	28	30	8	33.3	11.59	0.8
MSSH0200364	1	-DIN7	36	35	48	72	76	28	30	10	38.3	11.59	0.8
MSSH0200365	2	-DIN7	36	40	62	72	76	28	65	12	43.3	11.59	1.7
MSSH0200366	1	-DIN7	36	45	58	72	76	28	30	14	48.8	11.59	0.8
MSSH0200401	1	-DIN7	40	15	36	80	84	28	30	5	17.3	11.87	1.0
MSSH0200402	1	-DIN7	40	20	30	80	84	28	30	6	22.8	11.87	1.0
MSSH0200403	1	-DIN7	40	25	36	80	84	28	30	8	28.3	11.87	1.0
MSSH0200404	1	-DIN7	40	30	45	80	84	28	30	8	33.3	11.87	1.0
MSSH0200405	2	-DIN7	40	32	55	80	84	28	65	10	35.3	11.87	2.1
MSSH0200406	1	-DIN7	40	35	48	80	84	28	30	10	38.3	11.87	1.0
MSSH0200407	2	-DIN7	40	40	62	80	84	28	65	12	43.3	11.87	2.1
MSSH0200408	1	-DIN7	40	45	58	80	84	28	30	14	48.8	11.87	1.0
MSSH0200409	2	-DIN7	40	45	68	80	84	28	65	14	48.8	11.87	2.1
MSSH0200451	1	-DIN7	45	20	30	90	94	28	30	6	22.8	12.14	1.2
MSSH0200452	1	-DIN7	45	25	36	90	94	28	30	8	28.3	12.14	1.2
MSSH0200453	1	-DIN7	45	35	48	90	94	28	30	10	38.3	12.14	1.2
MSSH0200454	1	-DIN7	45	45	58	90	94	28	30	14	48.8	12.14	1.2
MSSH0200501	1	-DIN7	50	20	30	100	104	28	30	6	22.8	12.38	1.5
MSSH0200502	1	-DIN7	50	25	36	100	104	28	30	8	28.3	12.38	1.5
MSSH0200503	1	-DIN7	50	35	48	100	104	28	30	10	38.3	12.38	1.5
MSSH0200504	1	-DIN7	50	45	58	100	104	28	30	14	48.8	12.38	1.5
MSSH0200505	2	-DIN7	50	45	68	100	104	28	65	14	48.8	12.38	3.3
MSSH0200561	1	-DIN7	56	25	36	112	116	28	30	8	28.3	12.59	1.9
MSSH0200562	1	-DIN7	56	35	48	112	116	28	30	10	38.3	12.59	1.9

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

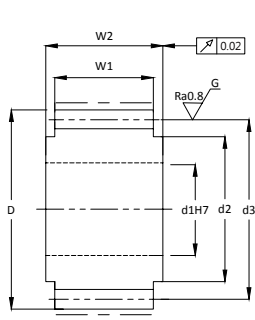


圖1 / Fig. 1

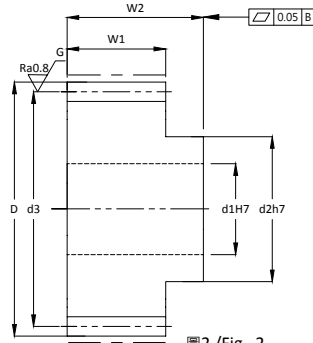
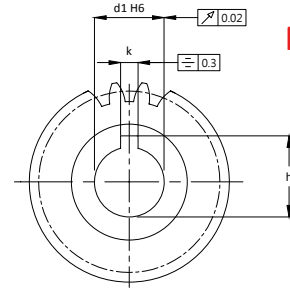


圖2 / Fig. 2



MSSH-DIN7

單位 / Dimension : mm

系列 MSSH-DIN7 直齒磨削齒輪
品質等級 DIN 7

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後齒面磨削

Series MSSH-DIN7 Straight Skiving Pinions
Quality Grade DIN 7

Material SCM415/SCM440
Hardness: HRC 55°~60°
Skiving after Hardening

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3													
MSSH0300181	1	-DIN7	18	25	36	54	60	28	30	8	28.3	13.94	0.4
MSSH0300201	1	-DIN7	20	25	36	60	66	28	30	8	28.3	14.54	0.5
MSSH0300202	1	-DIN7	20	30	45	60	66	28	30	8	33.3	14.54	0.5
MSSH0300203	1	-DIN7	20	35	48	60	66	28	30	10	38.3	14.54	0.5
MSSH0300221	2	-DIN7	22	22	36	66	72	28	56	6	24.8	15.05	1.1
MSSH0300222	1	-DIN7	22	25	36	66	72	28	30	8	28.3	15.05	0.6
MSSH0300223	2	-DIN7	22	25	44	66	72	28	60	8	28.3	15.05	1.2
MSSH0300224	1	-DIN7	22	30	45	66	72	28	30	8	33.3	15.05	0.6
MSSH0300225	2	-DIN7	22	32	55	66	72	28	65	10	35.3	15.05	1.2
MSSH0300226	2	-DIN7	22	30	50	66	72	28	60	8	33.3	15.05	1.2
MSSH0300227	1	-DIN7	22	35	48	66	72	28	30	10	38.3	15.05	0.6
MSSH0300228	2	-DIN7	22	35	55	66	72	28	65	10	38.3	15.05	1.2
MSSH0300229	2	-DIN7	22	40	62	66	72	28	65	12	43.3	15.05	1.2
MSSH0300251	1	-DIN7	25	25	36	75	81	28	30	8	28.3	15.62	0.7
MSSH0300252	1	-DIN7	25	30	45	75	81	28	30	8	33.3	15.62	0.7
MSSH0300253	2	-DIN7	25	32	55	75	81	28	65	10	35.3	15.62	1.6
MSSH0300254	1	-DIN7	25	35	48	75	81	28	30	10	38.3	15.62	0.7
MSSH0300255	2	-DIN7	25	40	62	75	81	28	65	12	43.3	15.62	1.6
MSSH0300256	1	-DIN7	25	45	58	75	81	28	30	14	48.8	15.62	0.7
MSSH0300281	2	-DIN7	28	22	36	84	90	28	56	6	24.8	16.26	1.7
MSSH0300282	1	-DIN7	28	25	36	84	90	28	30	8	28.3	16.26	0.9
MSSH0300283	2	-DIN7	28	25	44	84	90	28	60	8	28.3	16.26	1.8
MSSH0300284	1	-DIN7	28	30	45	84	90	28	30	8	33.3	16.26	0.9
MSSH0300285	2	-DIN7	28	30	50	84	90	28	60	8	33.3	16.26	1.8
MSSH0300286	2	-DIN7	28	32	55	84	90	28	65	10	35.3	16.26	1.9
MSSH0300287	1	-DIN7	28	35	48	84	90	28	30	10	38.3	16.26	0.9
MSSH0300288	2	-DIN7	28	35	55	84	90	28	65	10	38.3	16.26	1.9
MSSH0300289	2	-DIN7	28	40	62	84	90	28	65	12	43.3	16.26	1.9
MSSH03002810	1	-DIN7	28	45	58	84	90	28	30	14	48.8	16.26	0.9
MSSH03002811	2	-DIN7	28	45	68	84	90	28	65	14	48.8	16.26	1.9
MSSH0300321	1	-DIN7	32	25	36	96	102	28	30	8	28.3	16.86	1.2
MSSH0300323	1	-DIN7	32	30	45	96	102	28	30	8	33.3	16.86	1.2
MSSH0300323	2	-DIN7	32	32	55	96	102	28	65	10	35.3	16.86	2.5
MSSH0300324	1	-DIN7	32	35	48	96	102	28	30	10	38.3	16.86	1.2
MSSH0300325	2	-DIN7	32	40	62	96	102	28	65	12	43.3	16.86	2.5
MSSH0300326	1	-DIN7	32	45	58	96	102	28	30	14	48.8	16.86	1.2
MSSH0300327	1	-DIN7	32	60	80	96	102	28	30	18	64.4	16.86	1.2
MSSH0300361	1	-DIN7	36	25	36	108	114	28	30	8	28.3	17.38	1.4
MSSH0300362	1	-DIN7	36	35	48	108	114	28	30	10	38.3	17.38	1.4
MSSH0300363	1	-DIN7	36	45	58	108	114	28	30	14	48.8	17.38	1.4
MSSH0300364	2	-DIN7	36	45	68	108	114	28	65	14	48.8	17.38	3.1
MSSH0300365	1	-DIN7	36	60	80	108	114	28	30	18	64.4	17.38	1.4
MSSH0300401	1	-DIN7	40	25	36	120	126	28	30	8	28.3	17.80	1.8

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.



MSSH-DIN7

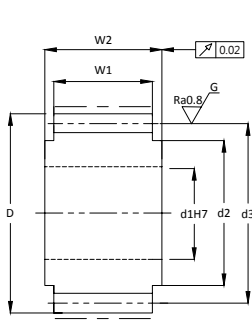


圖1 / Fig. 1

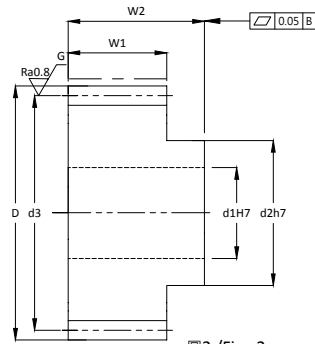
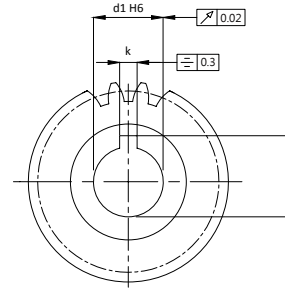


圖2 / Fig. 2



單位 / Dimension : mm

系列 MSSH-DIN7 直齒磨削齒輪
品質等級 DIN 7

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後齒面磨削

Series MSSH-DIN7 Straight Skiving Pinions
Quality Grade DIN 7

Material SCM415/SCM440
Hardness: HRC 55°~60°
Skiving after Hardening



型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3													
MSSH0300402	1	-DIN7	40	35	48	120	126	28	30	10	38.3	17.80	1.8
MSSH0300403	1	-DIN7	40	45	58	120	126	28	30	14	48.8	17.80	1.8
MSSH0300404	1	-DIN7	40	60	80	120	126	28	30	18	64.4	17.80	1.8
MSSH0300451	1	-DIN7	45	25	36	135	141	28	30	8	28.3	18.22	2.2
MSSH0300452	1	-DIN7	45	35	48	135	141	28	30	10	38.3	18.22	2.2
MSSH0300453	1	-DIN7	45	45	58	135	141	28	30	14	48.8	18.22	2.2
MSSH0300454	1	-DIN7	45	60	80	135	141	28	30	18	64.4	18.22	2.2
MSSH0300501	1	-DIN7	50	35	48	150	156	28	30	10	38.3	18.57	2.7
MSSH0300502	1	-DIN7	50	45	58	150	156	28	30	14	48.8	18.57	2.7
MSSH0300561	1	-DIN7	56	45	58	168	174	28	30	14	48.8	18.89	3.4
MSSH0300631	1	-DIN7	63	45	58	189	195	28	30	14	48.8	19.22	4.2
MSSH0300632	1	-DIN7	63	60	80	189	195	28	30	18	64.4	19.22	4.2

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

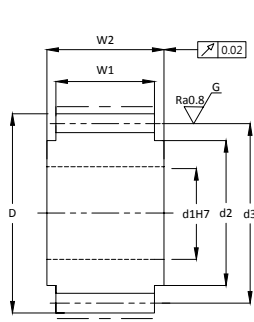


圖1 / Fig. 1

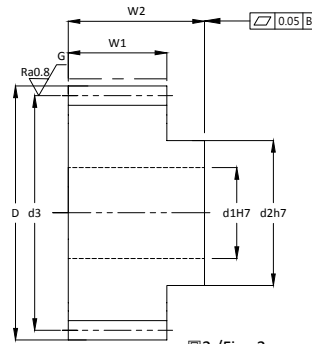
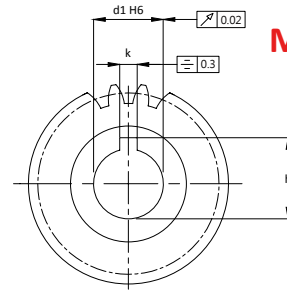


圖2 / Fig. 2



MSSH-DIN7

單位 / Dimension : mm

系列 MSSH-DIN7 直齒磨削齒輪
品質等級 DIN 7

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後齒面磨削

Series MSSH-DIN7 Straight Skiving Pinions
Quality Grade DIN 7

Material SCM415/SCM440
Hardness: HRC 55°~60°
Skiving after Hardening

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 4 / Module 4													
MSSH0400201	2	-DIN7	20	32	55	80	88	40	75	10	35.3	27.69	1.8
MSSH0400202	1	-DIN7	20	35	52	80	88	40	50	10	38.3	27.69	1.2
MSSH0400203	2	-DIN7	20	35	55	80	88	40	75	10	38.3	27.69	1.8
MSSH0400204	1	-DIN7	20	45	65	80	88	40	50	14	48.8	27.69	1.2
MSSH0400205	2	-DIN7	20	40	62	80	88	40	75	12	43.3	27.69	1.8
MSSH0400221	1	-DIN7	22	35	52	88	96	40	50	10	38.3	28.68	1.4
MSSH0400222	1	-DIN7	22	45	65	88	96	40	50	14	48.8	28.68	1.4
MSSH0400223	2	-DIN7	22	45	68	88	96	40	75	14	48.8	28.68	2.1
MSSH0400251	2	-DIN7	25	32	55	100	108	40	75	10	35.3	29.75	2.7
MSSH0400252	1	-DIN7	25	35	52	100	108	40	50	10	38.3	29.75	1.8
MSSH0400253	2	-DIN7	25	35	55	100	108	40	75	10	38.3	29.75	2.7
MSSH0400254	2	-DIN7	25	40	62	100	108	40	75	12	43.3	29.75	2.7
MSSH0400255	1	-DIN7	25	45	65	100	108	40	50	14	48.8	29.75	1.8
MSSH0400256	2	-DIN7	25	55	80	100	108	40	80	16	59.3	29.75	2.9
MSSH0400281	1	-DIN7	28	35	52	112	120	40	50	10	38.3	30.98	2.2
MSSH0400282	1	-DIN7	28	45	65	112	120	40	50	14	48.8	30.98	2.2
MSSH0400283	2	-DIN7	28	45	68	112	120	40	75	14	48.8	30.98	3.3
MSSH0400321	1	-DIN7	32	35	52	128	136	40	50	10	38.3	32.11	2.9
MSSH0400322	1	-DIN7	32	45	65	128	136	40	50	14	48.8	32.11	2.9
MSSH0400323	2	-DIN7	32	55	80	128	136	40	80	16	59.3	32.11	4.6
MSSH0400324	2	-DIN7	32	75	110	128	136	40	100	20	79.9	32.11	5.7
MSSH0400401	1	-DIN7	40	45	65	160	168	40	50	14	48.8	33.91	4.4
MSSH0400402	1	-DIN7	40	60	80	160	168	40	50	18	64.4	33.91	4.4
MSSH0400403	2	-DIN7	40	75	110	160	168	40	100	20	79.9	33.91	8.7
模數 5 / Module 5													
MSSH0500211	2	-DIN7	21	45	68	105	115	50	85	14	48.8	44.05	3.5
MSSH0500212	2	-DIN7	21	55	80	105	115	50	90	16	59.3	44.05	3.7
MSSH0500251	2	-DIN7	25	45	68	125	135	50	85	14	48.8	46.49	4.8
MSSH0500252	2	-DIN7	25	55	80	125	135	50	90	16	59.3	46.49	5.1
MSSH0500253	2	-DIN7	25	75	110	125	135	50	110	20	79.9	46.49	6.2
模數 6 / Module 6													
MSSH0600211	2	-DIN7	21	55	80	126	138	60	100	16	59.3	63.43	5.9
MSSH0600212	2	-DIN7	21	75	110	126	138	60	120	20	79.9	63.43	7.0
MSSH0600251	2	-DIN7	25	55	80	150	162	60	100	16	59.3	66.95	8.1
MSSH0600252	2	-DIN7	25	75	110	150	162	60	120	20	79.9	66.95	9.7
模數 8 / Module 8													
MSSH0800201	2	-DIN7	20	75	110	160	176	80	140	20	79.9	110.78	13.4
MSSH0800202	2	-DIN7	20	85	125	160	176	80	145	22	90.4	110.78	13.8

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.



CSM-DIN8

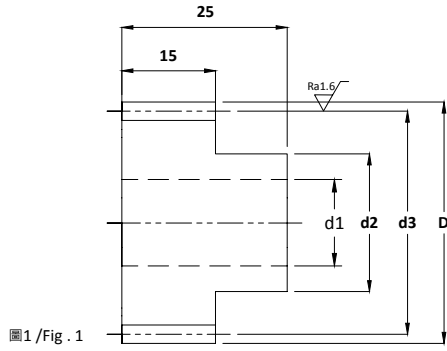


圖1 / Fig. 1

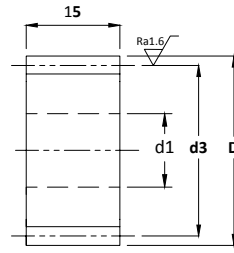


圖2 / Fig. 2

單位 / Dimension : mm

系列 CSM-DIN8 直齒齒輪
品質等級 DIN 8

Series CSM-DIN8 Straight Soft Pinions
Quality Grade DIN 8

材料 S50C

Material S50C

直齒 Straight
DIN

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1 / Module 1													
CSM0100121	1	-DIN8	12	6	9	12.0	14.0	*	*	*	*	*	0.1
CSM0100131	1	-DIN8	13	6	9	13.0	15.0	*	*	*	*	*	0.1
CSM0100141	1	-DIN8	14	6	11	14.0	16.0	*	*	*	*	*	0.1
CSM0100151	1	-DIN8	15	6	12	15.0	17.0	*	*	*	*	*	0.1
CSM0100161	1	-DIN8	16	6	12	16.0	18.0	*	*	*	*	*	0.1
CSM0100171	1	-DIN8	17	6	14	17.0	19.0	*	*	*	*	*	0.1
CSM0100181	1	-DIN8	18	6	15	18.0	20.0	*	*	*	*	*	0.1
CSM0100191	1	-DIN8	19	6	15	19.0	21.0	*	*	*	*	*	0.1
CSM0100201	1	-DIN8	20	6	16	20.0	22.0	*	*	*	*	*	0.1
CSM0100211	1	-DIN8	21	6	16	21.0	23.0	*	*	*	*	1.45	0.1
CSM0100221	1	-DIN8	22	6	18	22.0	24.0	*	*	*	*	1.48	0.1
CSM0100231	1	-DIN8	23	6	18	23.0	25.0	*	*	*	*	1.50	0.1
CSM0100241	1	-DIN8	24	9	20	24.0	26.0	*	*	*	*	1.52	0.1
CSM0100251	1	-DIN8	25	9	20	25.0	27.0	*	*	*	*	1.53	0.1
CSM0100301	1	-DIN8	30	9	20	30.0	32.0	*	*	*	*	1.63	0.1
CSM0100351	1	-DIN8	35	9	25	35.0	37.0	*	*	*	*	1.70	0.2
CSM0100381	1	-DIN8	38	9	25	38.0	40.0	*	*	*	*	1.73	0.2
CSM0100401	1	-DIN8	40	9	25	40.0	42.0	*	*	*	*	1.75	0.2
CSM0100451	1	-DIN8	45	9	30	45.0	47.0	*	*	*	*	1.79	0.3
CSM0100481	1	-DIN8	48	9	30	48.0	50.0	*	*	*	*	1.81	0.3
CSM0100501	1	-DIN8	50	9	30	50.0	52.0	*	*	*	*	1.82	0.3
CSM0100571	1	-DIN8	57	9	40	57.0	59.0	*	*	*	*	1.86	0.4
CSM0100601	1	-DIN8	60	9	40	60.0	62.0	*	*	*	*	1.88	0.4
CSM0100761	2	-DIN8	76	10	*	76.0	78.0	*	*	*	*	1.93	0.7
CSM0100801	2	-DIN8	80	10	*	80.0	82.0	*	*	*	*	1.94	0.8
CSM0100951	2	-DIN8	95	10	*	95.0	97.0	*	*	*	*	1.98	1.1
CSM0101001	2	-DIN8	100	10	*	100.0	102.0	*	*	*	*	1.99	1.2
CSM0101141	2	-DIN8	114	10	*	114.0	116.0	*	*	*	*	2.01	1.6

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSM-DIN8

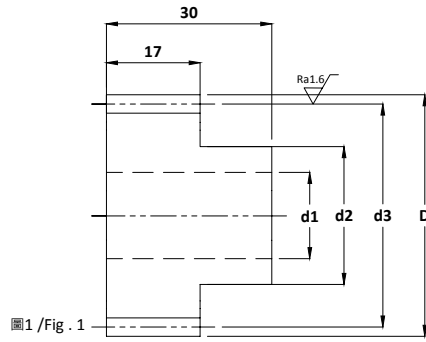


圖1 / Fig. 1

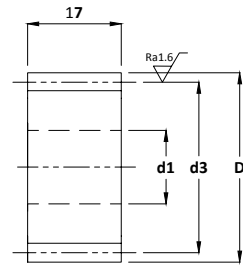


圖2 / Fig. 2

單位 / Dimension : mm

系列 CSM-DIN8 直齒齒輪
品質等級 DIN 8

材料 S50C

Series CSM-DIN8 Straight Soft Pinions
Quality Grade DIN 8

Material S50C

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1.5 / Module 1.5													
CSM0150121	1	-DIN8	12	6	14	18.0	21.0	*	*	*	*	*	0.1
CSM0150131	1	-DIN8	13	6	14	19.5	22.5	*	*	*	*	*	0.1
CSM0150141	1	-DIN8	14	6	16	21.0	24.0	*	*	*	*	*	0.1
CSM0150151	1	-DIN8	15	6	18	22.5	25.5	*	*	*	*	*	0.1
CSM0150161	1	-DIN8	16	6	18	24.0	27.0	*	*	*	*	*	0.1
CSM0150171	1	-DIN8	17	9	20	25.5	28.5	*	*	*	*	2.28	0.1
CSM0150181	1	-DIN8	18	9	20	27.0	30.0	*	*	*	*	2.33	0.1
CSM0150191	1	-DIN8	19	9	20	28.5	31.5	*	*	*	*	2.38	0.1
CSM0150201	1	-DIN8	20	9	25	30.0	33.0	*	*	*	*	2.43	0.2
CSM0150211	1	-DIN8	21	9	25	31.5	34.5	*	*	*	*	2.47	0.2
CSM0150221	1	-DIN8	22	9	25	33.0	36.0	*	*	*	*	2.51	0.2
CSM0150231	1	-DIN8	23	9	25	34.5	37.5	*	*	*	*	2.55	0.2
CSM0150241	1	-DIN8	24	9	25	36.0	39.0	*	*	*	*	2.59	0.2
CSM0150251	1	-DIN8	25	9	25	37.5	40.5	*	*	*	*	2.61	0.2
CSM0150301	1	-DIN8	30	9	25	45.0	48.0	*	*	*	*	2.77	0.3
CSM0150351	1	-DIN8	35	9	40	52.5	55.5	*	*	*	*	2.89	0.4
CSM0150381	1	-DIN8	38	9	40	57.0	60.0	*	*	*	*	2.94	0.5
CSM0150401	1	-DIN8	40	9	40	60.0	63.0	*	*	*	*	2.97	0.6
CSM0150451	1	-DIN8	45	12	50	67.5	70.5	*	*	*	*	3.04	0.7
CSM0150481	1	-DIN8	48	12	50	72.0	75.0	*	*	*	*	3.08	0.8
CSM0150501	1	-DIN8	50	12	50	75.0	78.0	*	*	*	*	3.10	0.8
CSM0150571	1	-DIN8	57	12	60	85.5	88.5	*	*	*	*	3.17	1.1
CSM0150601	1	-DIN8	60	12	60	90.0	93.0	*	*	*	*	3.19	1.2
CSM0150761	2	-DIN8	76	16	*	114.0	117.0	*	*	*	*	3.29	1.9
CSM0150801	2	-DIN8	80	16	*	120.0	123.0	*	*	*	*	3.31	2.1
CSM0150951	2	-DIN8	95	20	*	142.5	145.5	*	*	*	*	3.37	2.9



CSM-DIN8

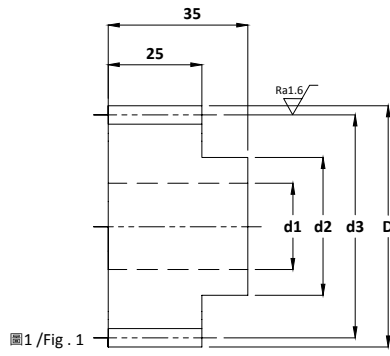


圖1 / Fig. 1

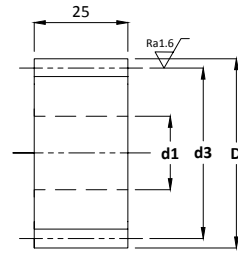


圖2 / Fig. 2

單位 / Dimension : mm

系列 CSM-DIN8 直齒齒輪
品質等級 DIN 8

材料 S50C

Series CSM-DIN8 Straight Soft Pinions
Quality Grade DIN 8

Material S50C

直齒 Straight
DIN

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2 / Module 2													
CSM0200121	1	-DIN8	12	9	18	24.0	28.0	*	*	*	*	*	0.1
CSM0200131	1	-DIN8	13	9	19	26.0	30.0	*	*	*	*	*	0.1
CSM0200141	1	-DIN8	14	9	19	28.0	32.0	*	*	*	*	*	0.2
CSM0200151	1	-DIN8	15	9	24.5	30.0	34.0	*	*	*	*	*	0.2
CSM0200161	1	-DIN8	16	9	25	32.0	36.0	*	*	*	*	*	0.2
CSM0200171	1	-DIN8	17	9	25	34.0	38.0	*	*	*	*	4.00	0.2
CSM0200181	1	-DIN8	18	9	25	36.0	40.0	*	*	*	*	4.57	0.3
CSM0200191	1	-DIN8	19	9	25	38.0	42.0	*	*	*	*	4.67	0.3
CSM0200201	1	-DIN8	20	9	30	40.0	44.0	*	*	*	*	4.77	0.3
CSM0200211	1	-DIN8	21	9	30	42.0	46.0	*	*	*	*	4.85	0.3
CSM0200221	1	-DIN8	22	9	30	44.0	48.0	*	*	*	*	4.94	0.4
CSM0200231	1	-DIN8	23	9	30	46.0	50.0	*	*	*	*	5.01	0.4
CSM0200241	1	-DIN8	24	12	35	48.0	52.0	*	*	*	*	5.08	0.4
CSM0200251	1	-DIN8	25	12	35	50.0	54.0	*	*	*	*	5.12	0.5
CSM0200281	1	-DIN8	28	12	40	56.0	60.0	*	*	*	*	5.33	0.6
CSM0200301	1	-DIN8	30	12	40	60.0	64.0	*	*	*	*	5.44	0.7
CSM0200321	1	-DIN8	32	12	40	64.0	68.0	*	*	*	*	5.31	0.7
CSM0200351	1	-DIN8	35	12	50	70.0	74.0	*	*	*	*	5.66	0.9
CSM0200361	1	-DIN8	36	12	50	72.0	76.0	*	*	*	*	5.70	0.9
CSM0200381	1	-DIN8	38	12	50	76.0	80.0	*	*	*	*	5.77	1.0
CSM0200401	1	-DIN8	40	12	50	80.0	84.0	*	*	*	*	5.84	1.1
CSM0200451	1	-DIN8	45	12	60	90.0	94.0	*	*	*	*	5.97	1.4
CSM0200481	1	-DIN8	48	15	70	96.0	100.0	*	*	*	*	6.04	1.6
CSM0200501	1	-DIN8	50	15	70	100.0	104.0	*	*	*	*	6.09	1.8
CSM0200561	1	-DIN8	56	15	70	112.0	116.0	*	*	*	*	6.19	2.2
CSM0200571	1	-DIN8	57	15	70	114.0	118.0	*	*	*	*	6.21	2.3
CSM0200601	1	-DIN8	60	15	70	120.0	124.0	*	*	*	*	6.27	2.5
CSM0200761	2	-DIN8	76	20	*	152.0	156.0	*	*	*	*	6.45	3.9
CSM0200801	2	-DIN8	80	20	*	160.0	164.0	*	*	*	*	6.49	4.4
CSM0200951	2	-DIN8	95	20	*	190.0	194.0	*	*	*	*	6.61	6.1

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSM-DIN8

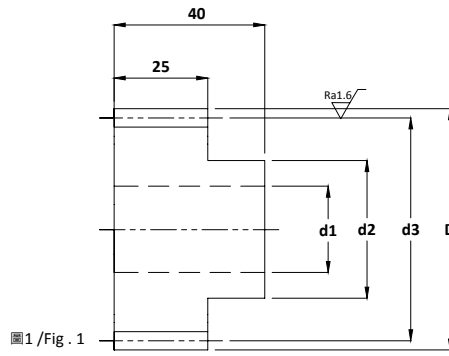


圖1 / Fig. 1

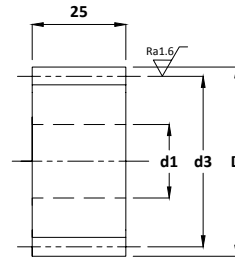


圖2 / Fig. 2

單位 / Dimension : mm

系列 CSM-DIN8 直齒齒輪
品質等級 DIN 8

Series CSM-DIN8 Straight Soft Pinions
Quality Grade DIN 8

材料 S50C

Material S50C

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2.5 / Module 2.5													
CSM0250121	1	-DIN8	12	9	20	30.0	35.0	*	*	*	*	*	0.2
CSM0250131	1	-DIN8	13	9	20	32.5	37.5	*	*	*	*	*	0.3
CSM0250141	1	-DIN8	14	9	25	35.0	40.0	*	*	*	*	*	0.3
CSM0250151	1	-DIN8	15	9	25	37.5	42.5	*	*	*	*	*	0.3
CSM0250161	1	-DIN8	16	9	30	40.0	45.0	*	*	*	*	*	0.4
CSM0250171	1	-DIN8	17	9	30	42.5	47.5	*	*	*	*	5.60	0.4
CSM0250181	1	-DIN8	18	9	35	45.0	50.0	*	*	*	*	5.71	0.5
CSM0250191	1	-DIN8	19	12	35	47.5	52.5	*	*	*	*	5.84	0.5
CSM0250201	1	-DIN8	20	12	35	50.0	55.0	*	*	*	*	5.96	0.6
CSM0250211	1	-DIN8	21	12	35	52.5	57.5	*	*	*	*	6.06	0.6
CSM0250221	1	-DIN8	22	12	40	55.0	60.0	*	*	*	*	6.17	0.7
CSM0250231	1	-DIN8	23	12	40	57.5	62.5	*	*	*	*	6.26	0.7
CSM0250241	1	-DIN8	24	12	40	60.0	65.0	*	*	*	*	6.36	0.8
CSM0250251	1	-DIN8	25	12	45	62.5	67.5	*	*	*	*	6.40	0.8
CSM0250301	1	-DIN8	30	12	50	75.0	80.0	*	*	*	*	6.80	1.2
CSM0250351	1	-DIN8	35	12	60	87.5	92.5	*	*	*	*	7.08	1.6
CSM0250381	1	-DIN8	38	12	60	95.0	100.0	*	*	*	*	7.21	1.8
CSM0250401	1	-DIN8	40	12	70	100.0	105.0	*	*	*	*	7.30	2.0
CSM0250451	1	-DIN8	45	15	70	112.5	117.5	*	*	*	*	7.47	2.6
CSM0250481	1	-DIN8	48	15	80	120.0	125.0	*	*	*	*	7.55	2.9
CSM0250501	1	-DIN8	50	15	80	125.0	130.0	*	*	*	*	7.61	3.1
CSM0250571	1	-DIN8	57	15	90	142.5	147.5	*	*	*	*	7.77	4.0
CSM0250601	1	-DIN8	60	15	90	150.0	155.0	*	*	*	*	7.83	4.4
CSM0250761	1	-DIN8	76	20	*	190.0	195.0	*	*	*	*	7.07	7.0
CSM0250801	1	-DIN8	80	25	*	200.0	205.0	*	*	*	*	8.11	7.8
CSM0250951	1	-DIN8	95	25	*	237.5	242.5	*	*	*	*	8.26	10.9



CSM-DIN8

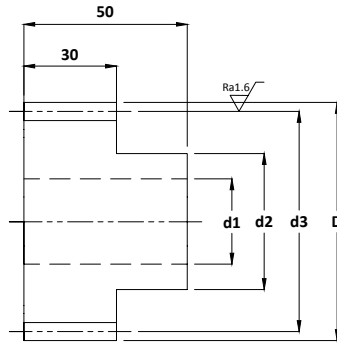


圖1 / Fig. 1

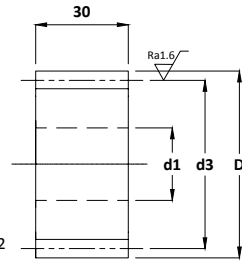


圖2 / Fig. 2

單位 / Dimension : mm

系列 CSM-DIN8 直齒齒輪
品質等級 DIN 8

Series CSM-DIN8 Straight Soft Pinions
Quality Grade DIN 8

材料 S50C

Material S50C

直齒 Straight
DIN

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3													
CSM0300121	1	-DIN8	12	14	25	36	42	*	*	*	*	*	0.3
CSM0300131	1	-DIN8	13	14	25	39	45	*	*	*	*	*	0.4
CSM0300141	1	-DIN8	14	14	25	42	48	*	*	*	*	*	0.4
CSM0300151	1	-DIN8	15	14	35	45	51	*	*	*	*	*	0.5
CSM0300161	1	-DIN8	16	14	35	48	54	*	*	*	*	*	0.5
CSM0300171	1	-DIN8	17	14	42	51	57	*	*	*	*	8.06	0.6
CSM0300181	1	-DIN8	18	14	45	54	60	*	*	*	*	8.23	0.7
CSM0300191	1	-DIN8	19	14	45	57	63	*	*	*	*	8.41	0.7
CSM0300201	1	-DIN8	20	14	45	60	66	*	*	*	*	8.58	0.8
CSM0300211	1	-DIN8	21	14	45	63	69	*	*	*	*	8.73	0.9
CSM0300221	1	-DIN8	22	14	50	66	72	*	*	*	*	8.89	1.0
CSM0300231	1	-DIN8	23	14	50	69	75	*	*	*	*	9.01	1.0
CSM0300241	1	-DIN8	24	14	50	72	78	*	*	*	*	9.16	1.1
CSM0300251	1	-DIN8	25	14	60	75	81	*	*	*	*	9.22	1.2
CSM0300271	1	-DIN8	27	14	60	81	87	*	*	*	*	9.49	1.4
CSM0300281	1	-DIN8	28	14	60	84	90	*	*	*	*	9.60	1.5
CSM0300301	1	-DIN8	30	14	60	90	96	*	*	*	*	9.79	1.7
CSM0300321	1	-DIN8	32	14	60	96	102	*	*	*	*	9.95	1.9
CSM0300351	1	-DIN8	35	14	80	105	111	*	*	*	*	10.20	2.3
CSM0300361	1	-DIN8	36	14	80	108	114	*	*	*	*	10.26	2.4
CSM0300381	1	-DIN8	38	14	80	114	120	*	*	*	*	10.38	2.7
CSM0300401	1	-DIN8	40	14	80	120	126	*	*	*	*	10.51	2.9
CSM0300451	2	-DIN8	45	20	*	135	141	*	*	*	*	10.76	3.7
CSM0300481	2	-DIN8	48	20	*	144	150	*	*	*	*	10.88	4.2
CSM0300501	2	-DIN8	50	25	*	150	156	*	*	*	*	10.96	4.5
CSM0300521	2	-DIN8	52	25	*	156	162	*	*	*	*	11.03	5.0
CSM0300561	2	-DIN8	56	25	*	168	174	*	*	*	*	11.15	5.6
CSM0300601	2	-DIN8	60	25	*	180	186	*	*	*	*	11.28	6.4
CSM0300761	2	-DIN8	76	25	*	228	234	*	*	*	*	11.62	10.1
CSM0300801	2	-DIN8	80	25	*	240	246	*	*	*	*	11.69	11.2
CSM0300951	2	-DIN8	95	25	*	285	291	*	*	*	*	11.90	15.7

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSM-DIN8

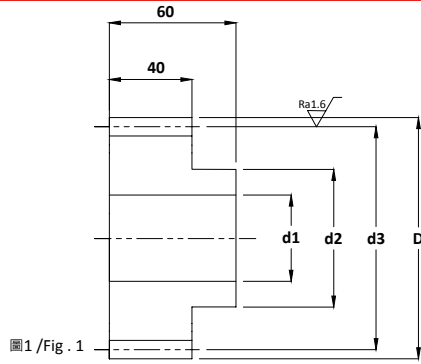


圖1 / Fig. 1

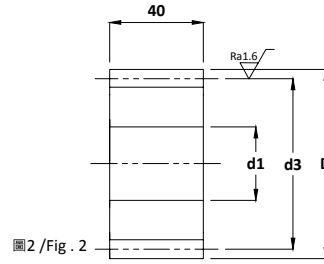


圖2 / Fig. 2

單位 / Dimension : mm

系列 CSM-DIN8 直齒齒輪
品質等級 DIN 8

Series CSM-DIN8 Straight Soft Pinions
Quality Grade DIN 8

材料 S50C

Material S50C

型號 Code	圖 Fig.	DIN	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 4 / Module 4													
CSM0400121	1	-DIN8	12	16	35	48	56	*	*	*	*	*	0.6
CSM0400131	1	-DIN8	13	16	35	52	60	*	*	*	*	*	0.7
CSM0400141	1	-DIN8	14	16	45	56	64	*	*	*	*	*	0.8
CSM0400151	1	-DIN8	15	16	45	60	68	*	*	*	*	*	0.9
CSM0400161	1	-DIN8	16	16	45	64	72	*	*	*	*	*	1.0
CSM0400171	1	-DIN8	17	16	50	68	76	*	*	*	*	14.34	1.1
CSM0400181	1	-DIN8	18	16	50	72	80	*	*	*	*	14.63	1.2
CSM0400191	1	-DIN8	19	16	60	76	84	*	*	*	*	14.96	1.3
CSM0400201	1	-DIN8	20	16	60	80	88	*	*	*	*	15.26	1.4
CSM0400211	1	-DIN8	21	16	70	84	92	*	*	*	*	15.53	1.6
CSM0400221	1	-DIN8	22	16	70	88	96	*	*	*	*	15.80	1.7
CSM0400231	1	-DIN8	23	16	75	92	100	*	*	*	*	16.03	1.8
CSM0400241	1	-DIN8	24	16	75	96	104	*	*	*	*	16.28	2.0
CSM0400251	1	-DIN8	25	16	75	100	108	*	*	*	*	16.39	2.2
CSM0400301	1	-DIN8	30	16	75	120	128	*	*	*	*	17.41	3.0
CSM0400381	2	-DIN8	38	25	*	152	160	*	*	*	*	18.46	4.7
CSM0400401	2	-DIN8	40	25	*	160	168	*	*	*	*	18.68	5.2
CSM0400451	2	-DIN8	45	25	*	180	188	*	*	*	*	19.13	6.5
CSM0400481	2	-DIN8	48	25	*	192	200	*	*	*	*	19.35	7.4
CSM0400501	2	-DIN8	50	25	*	200	208	*	*	*	*	19.49	8.0
CSM0400521	2	-DIN8	52	25	*	208	216	*	*	*	*	19.61	8.6
CSM0400561	2	-DIN8	56	25	*	224	232	*	*	*	*	19.83	10.0
CSM0400601	2	-DIN8	60	25	*	240	248	*	*	*	*	20.06	11.4
CSM0400761	2	-DIN8	76	25	*	304	312	*	*	*	*	20.65	18.0
CSM0400801	2	-DIN8	80	25	*	320	328	*	*	*	*	20.78	19.9
CSM0400951	2	-DIN8	95	25	*	380	388	*	*	*	*	21.16	27.8



※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSM-DIN8

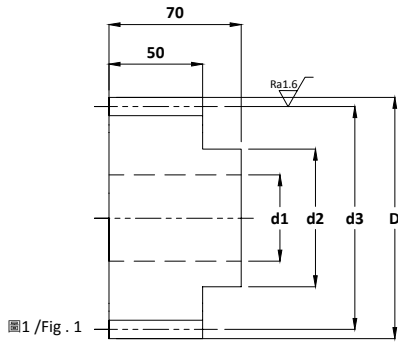


圖1 / Fig. 1

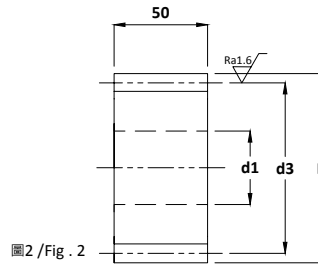


圖2 / Fig. 2

單位 / Dimension : mm

系列 CSM-DIN8 直齒齒輪
品質等級 DIN 8

材料 S50C

Series CSM-DIN8 Straight Soft Pinions
Quality Grade DIN 8

Material S50C

直齒 Straight
DIN

型號 Code	圖 Fig.	DIN	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 5 / Module 5													
CSM0500121	1	-DIN8	12	20	45	60	70	*	*	*	*	*	1.1
CSM0500131	1	-DIN8	13	20	45	65	75	*	*	*	*	*	1.2
CSM0500141	1	-DIN8	14	20	55	70	80	*	*	*	*	*	1.4
CSM0500151	1	-DIN8	15	20	60	75	85	*	*	*	*	*	1.6
CSM0500161	1	-DIN8	16	20	60	80	90	*	*	*	*	*	1.7
CSM0500171	1	-DIN8	17	20	70	85	95	*	*	*	*	22.41	1.9
CSM0500181	1	-DIN8	18	20	70	90	100	*	*	*	*	22.87	2.2
CSM0500191	1	-DIN8	19	20	70	95	105	*	*	*	*	23.37	2.4
CSM0500201	1	-DIN8	20	20	70	100	110	*	*	*	*	23.84	2.6
CSM0500211	1	-DIN8	21	20	70	105	115	*	*	*	*	24.27	2.9
CSM0500221	1	-DIN8	22	20	80	110	120	*	*	*	*	24.69	3.1
CSM0500231	1	-DIN8	23	20	80	115	125	*	*	*	*	25.05	3.4
CSM0500241	1	-DIN8	24	20	80	120	130	*	*	*	*	25.44	3.6
CSM0500251	1	-DIN8	25	20	80	125	135	*	*	*	*	25.62	3.9
CSM0500301	1	-DIN8	30	20	90	150	160	*	*	*	*	27.21	5.5
CSM0500361	2	-DIN8	36	30	*	180	190	*	*	*	*	28.51	7.8
CSM0500381	2	-DIN8	38	30	*	190	200	*	*	*	*	28.85	8.6
CSM0500401	2	-DIN8	40	30	*	200	210	*	*	*	*	29.20	9.5
CSM0500451	2	-DIN8	45	30	*	225	235	*	*	*	*	29.89	11.9
CSM0500481	2	-DIN8	48	30	*	240	250	*	*	*	*	30.23	13.5
CSM0500501	2	-DIN8	50	30	*	250	260	*	*	*	*	30.46	14.6
CSM0500521	2	-DIN8	52	30	*	260	270	*	*	*	*	30.64	15.7
CSM0500561	2	-DIN8	56	30	*	280	290	*	*	*	*	30.99	18.1
CSM0500601	2	-DIN8	60	30	*	300	310	*	*	*	*	31.34	20.7
CSM0500761	2	-DIN8	76	30	*	380	390	*	*	*	*	32.28	32.8
CSM0500801	2	-DIN8	80	30	*	400	410	*	*	*	*	32.47	36.3
CSM0500951	2	-DIN8	95	30	*	475	485	*	*	*	*	33.07	50.8

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSM-DIN8

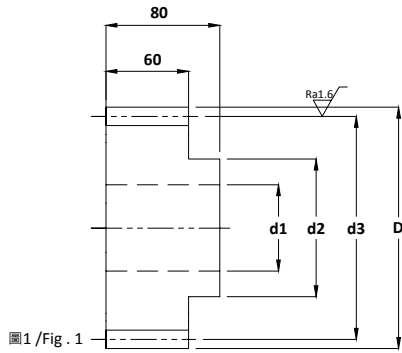


圖1 / Fig. 1

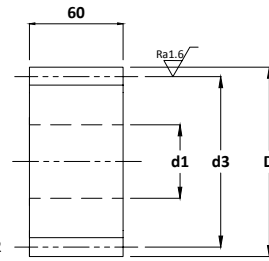


圖2 / Fig. 2

單位 / Dimension : mm

系列 CSM-DIN8 直齒齒輪
品質等級 DIN 8

材料 S50C

Series CSM-DIN8 Straight Soft Pinions
Quality Grade DIN 8

Material S50C

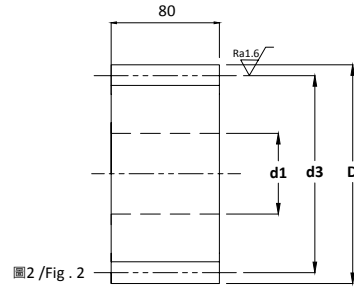
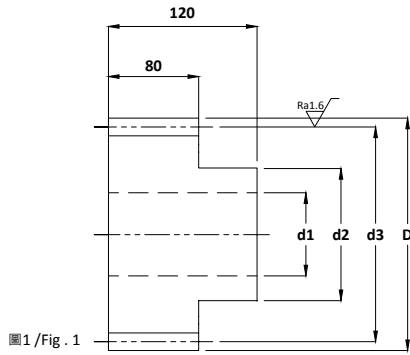
型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 6 / Module 6													
CSM0600151	1	-DIN8	15	20	60	90	102	*	*	*	*	*	2.6
CSM0600191	1	-DIN8	19	20	80	114	126	*	*	*	*	33.66	3.9
CSM0600201	1	-DIN8	20	20	90	120	132	*	*	*	*	34.34	4.3
CSM0600211	1	-DIN8	21	20	90	126	138	*	*	*	*	34.95	4.7
CSM0600221	1	-DIN8	22	20	100	132	144	*	*	*	*	35.56	5.1
CSM0600251	1	-DIN8	25	20	110	150	162	*	*	*	*	36.89	6.5
CSM0600301	2	-DIN8	30	30	*	180	192	*	*	*	*	39.18	9.1
CSM0600361	2	-DIN8	36	30	*	216	228	*	*	*	*	41.06	12.8



※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSM-DIN8



單位 / Dimension : mm

系列 CSM-DIN8 直齒齒輪
品質等級 DIN 8

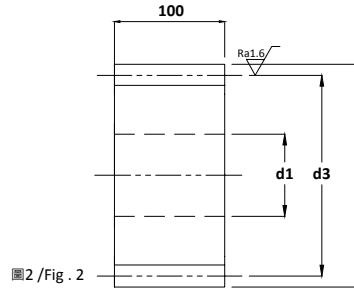
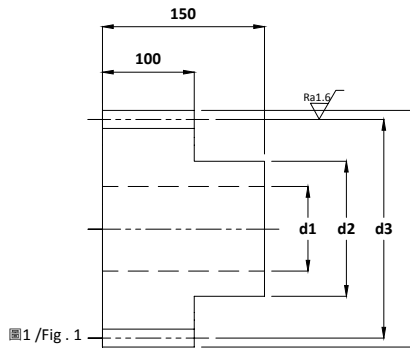
Series CSM-DIN8 Straight Soft Pinions
Quality Grade DIN 8

材料 S50C

Material S50C

直齒 Straight
DIN

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 8 / Module 8													
CSM0800151	1	-DIN8	15	40	90	120	136	*	*	*	*	*	6.8
CSM0800181	1	-DIN8	18	40	100	144	160	*	*	*	*	58.55	9.5
CSM0800201	1	-DIN8	20	40	120	160	176	*	*	*	*	61.05	11.5
CSM0800241	1	-DIN8	24	40	150	192	208	*	*	*	*	65.14	16.0
CSM0800251	1	-DIN8	25	40	150	200	216	*	*	*	*	65.59	17.3
CSM0800301	1	-DIN8	30	40	190	240	256	*	*	*	*	69.65	24.2



單位 / Dimension : mm

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 10 / Module 10													
CSM1000201	2	-DIN8	20	40	150	200	220	*	*	*	*	95.39	22.4

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSMH-DIN10

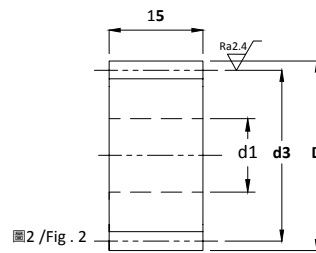
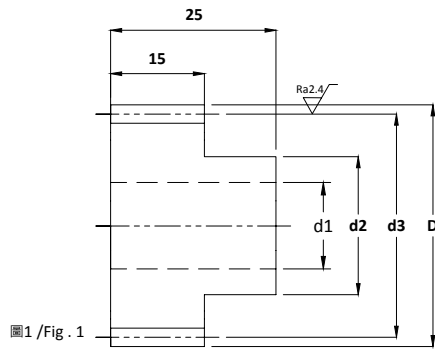


圖1 / Fig. 1

圖2 / Fig. 2

單位 / Dimension : mm

系列 MSMH-DIN10 直齒硬化齒輪
品質等級 DIN 10

Series MSMH-DIN10 Straight Hardened Pinions
Quality Grade DIN 10

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後表面噴砂處理
可依要求提供不同表面處理方式

Material SCM415/SCM440
Hardness: HRC 55°~60°
Sand-blasted on surfaces after hardening.
Other surface treatments are available upon request.

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1 / Module 1													
MSMH0100121	1	-DIN10	12	6	9	12.0	14.0	*	*	*	*	*	0.1
MSMH0100131	1	-DIN10	13	6	9	13.0	15.0	*	*	*	*	*	0.1
MSMH0100141	1	-DIN10	14	6	11	14.0	16.0	*	*	*	*	*	0.1
MSMH0100151	1	-DIN10	15	6	12	15.0	17.0	*	*	*	*	*	0.1
MSMH0100161	1	-DIN10	16	6	12	16.0	18.0	*	*	*	*	*	0.1
MSMH0100171	1	-DIN10	17	6	14	17.0	19.0	*	*	*	*	1.95	0.1
MSMH0100181	1	-DIN10	18	6	15	18.0	20.0	*	*	*	*	1.99	0.1
MSMH0100191	1	-DIN10	19	6	15	19.0	21.0	*	*	*	*	2.03	0.1
MSMH0100201	1	-DIN10	20	6	16	20.0	22.0	*	*	*	*	2.07	0.1
MSMH0100211	1	-DIN10	21	6	16	21.0	23.0	*	*	*	*	2.11	0.1
MSMH0100221	1	-DIN10	22	6	18	22.0	24.0	*	*	*	*	2.15	0.1
MSMH0100231	1	-DIN10	23	6	18	23.0	25.0	*	*	*	*	2.18	0.1
MSMH0100241	1	-DIN10	24	9	20	24.0	26.0	*	*	*	*	2.21	0.1
MSMH0100251	1	-DIN10	25	9	20	25.0	27.0	*	*	*	*	2.23	0.1
MSMH0100301	1	-DIN10	30	9	20	30.0	32.0	*	*	*	*	2.37	0.1
MSMH0100351	1	-DIN10	35	9	25	35.0	37.0	*	*	*	*	2.46	0.2
MSMH0100381	1	-DIN10	38	9	25	38.0	40.0	*	*	*	*	2.51	0.2
MSMH0100401	1	-DIN10	40	9	25	40.0	42.0	*	*	*	*	2.54	0.2
MSMH0100451	1	-DIN10	45	9	30	45.0	47.0	*	*	*	*	2.60	0.3
MSMH0100481	1	-DIN10	48	9	30	48.0	50.0	*	*	*	*	2.63	0.3
MSMH0100501	1	-DIN10	50	9	30	50.0	52.0	*	*	*	*	2.65	0.3
MSMH0100571	1	-DIN10	57	9	40	57.0	59.0	*	*	*	*	2.70	0.4
MSMH0100601	1	-DIN10	60	9	40	60.0	62.0	*	*	*	*	2.73	0.4
MSMH0100761	2	-DIN10	76	10	*	76.0	78.0	*	*	*	*	2.81	0.7
MSMH0100801	2	-DIN10	80	10	*	80.0	82.0	*	*	*	*	2.82	0.8
MSMH0100951	2	-DIN10	95	10	*	95.0	97.0	*	*	*	*	2.88	1.1
MSMH0101001	2	-DIN10	100	10	*	100.0	102.0	*	*	*	*	2.89	1.2
MSMH0101141	2	-DIN10	114	10	*	114.0	116.0	*	*	*	*	3.06	1.6

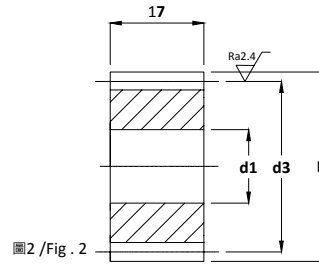
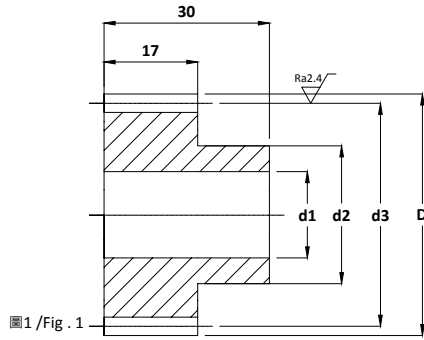


直齒 Straight
DIN

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSMH-DIN10



單位 / Dimension : mm

系列 MSMH-DIN10 直齒硬化齒輪
品質等級 DIN 10

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後表面噴砂處理
可依要求提供不同表面處理方式

Series MSMH-DIN10 Straight Hardened Pinions
Quality Grade DIN 10

Material SCM415/SCM440
Hardness: HRC 55°~60°
Sand-blasted on surfaces after hardening.
Other surface treatments are available upon request.

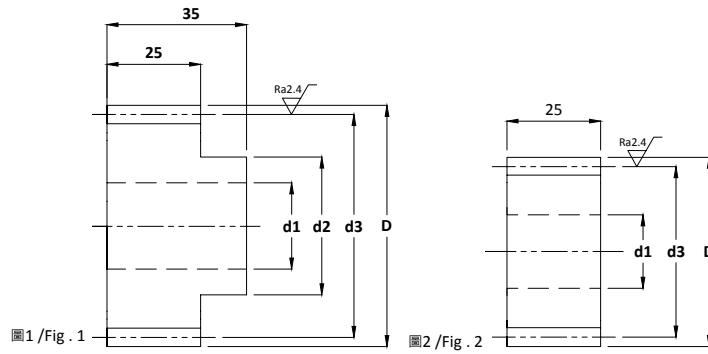


型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1.5 / Module 1.5													
MSMH0150121	1	-DIN10	12	6	14	18.0	21.0	*	*	*	*	*	0.1
MSMH0150131	1	-DIN10	13	6	14	19.5	22.5	*	*	*	*	*	0.1
MSMH0150141	1	-DIN10	14	6	16	21.0	24.0	*	*	*	*	*	0.1
MSMH0150151	1	-DIN10	15	6	18	22.5	25.5	*	*	*	*	*	0.1
MSMH0150161	1	-DIN10	16	6	18	24.0	27.0	*	*	*	*	*	0.1
MSMH0150171	1	-DIN10	17	9	20	25.5	28.5	*	*	*	*	3.31	0.1
MSMH0150181	1	-DIN10	18	9	20	27.0	30.0	*	*	*	*	3.38	0.1
MSMH0150191	1	-DIN10	19	9	20	28.5	31.5	*	*	*	*	3.46	0.1
MSMH0150201	1	-DIN10	20	9	25	30.0	33.0	*	*	*	*	3.53	0.2
MSMH0150211	1	-DIN10	21	9	25	31.5	34.5	*	*	*	*	3.59	0.2
MSMH0150221	1	-DIN10	22	9	25	33.0	36.0	*	*	*	*	3.65	0.2
MSMH0150231	1	-DIN10	23	9	25	34.5	37.5	*	*	*	*	3.71	0.2
MSMH0150241	1	-DIN10	24	9	25	36.0	39.0	*	*	*	*	3.76	0.2
MSMH0150251	1	-DIN10	25	9	25	37.5	40.5	*	*	*	*	3.79	0.2
MSMH0150301	1	-DIN10	30	9	30	45.0	48.0	*	*	*	*	4.02	0.3
MSMH0150351	1	-DIN10	35	9	30	52.5	55.5	*	*	*	*	4.19	0.4
MSMH0150381	1	-DIN10	38	9	40	57.0	60.0	*	*	*	*	4.27	0.5
MSMH0150401	1	-DIN10	40	9	40	60.0	63.0	*	*	*	*	4.32	0.6
MSMH0150451	1	-DIN10	45	12	50	67.5	70.5	*	*	*	*	4.42	0.7
MSMH0150481	1	-DIN10	48	12	50	72.0	75.0	*	*	*	*	4.47	0.8
MSMH0150501	1	-DIN10	50	12	50	75.0	78.0	*	*	*	*	4.51	0.8
MSMH0150571	1	-DIN10	57	12	60	85.5	88.5	*	*	*	*	4.60	1.1
MSMH0150601	1	-DIN10	60	12	60	90.0	93.0	*	*	*	*	4.64	1.2
MSMH0150761	2	-DIN10	76	16	*	114.0	117.0	*	*	*	*	4.78	1.9
MSMH0150801	2	-DIN10	80	16	*	120.0	123.0	*	*	*	*	4.80	2.1
MSMH0150951	2	-DIN10	95	20	*	142.5	145.5	*	*	*	*	4.89	2.9

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSMH-DIN10



單位 / Dimension : mm

系列 MSMH-DIN10 直齒硬化齒輪
品質等級 DIN 10

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後表面噴砂處理
可依要求提供不同表面處理方式

Series MSMH-DIN10 Straight Hardened Pinions
Quality Grade DIN 10

Material SCM415/SCM440
Hardness: HRC 55°~60°
Sand-blasted on surfaces after hardening.
Other surface treatments are available upon request.

型號 Code	圖 Fig.	DIN	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2 / Module 2													
MSMH0200121	1	-DIN10	12	9	18	24.0	28.0	*	*	*	*	*	0.1
MSMH0200131	1	-DIN10	13	9	19	26.0	30.0	*	*	*	*	*	0.1
MSMH0200141	1	-DIN10	14	9	19	28.0	32.0	*	*	*	*	*	0.2
MSMH0200151	1	-DIN10	15	9	24.5	30.0	34.0	*	*	*	*	*	0.2
MSMH0200161	1	-DIN10	16	9	25	32.0	36.0	*	*	*	*	*	0.2
MSMH0200171	1	-DIN10	17	9	25	34.0	38.0	*	*	*	*	6.50	0.2
MSMH0200181	1	-DIN10	18	9	25	36.0	40.0	*	*	*	*	6.64	0.3
MSMH0200191	1	-DIN10	19	9	25	38.0	42.0	*	*	*	*	6.78	0.3
MSMH0200201	1	-DIN10	20	9	30	40.0	44.0	*	*	*	*	6.92	0.3
MSMH0200211	1	-DIN10	21	9	30	42.0	46.0	*	*	*	*	7.04	0.3
MSMH0200221	1	-DIN10	22	9	30	44.0	48.0	*	*	*	*	7.17	0.4
MSMH0200231	1	-DIN10	23	9	30	46.0	50.0	*	*	*	*	7.27	0.4
MSMH0200241	1	-DIN10	24	12	35	48.0	52.0	*	*	*	*	7.38	0.4
MSMH0200251	1	-DIN10	25	12	35	50.0	54.0	*	*	*	*	7.43	0.5
MSMH0200281	1	-DIN10	28	12	40	56.0	60.0	*	*	*	*	7.74	0.6
MSMH0200301	1	-DIN10	30	12	40	60.0	64.0	*	*	*	*	7.90	0.7
MSMH0200321	1	-DIN10	32	12	40	64.0	68.0	*	*	*	*	8.03	0.7
MSMH0200351	1	-DIN10	35	12	50	70.0	74.0	*	*	*	*	8.22	0.9
MSMH0200361	1	-DIN10	36	12	50	72.0	76.0	*	*	*	*	8.28	0.9
MSMH0200381	1	-DIN10	38	12	50	76.0	80.0	*	*	*	*	8.37	1.0
MSMH0200401	1	-DIN10	40	12	50	80.0	84.0	*	*	*	*	8.47	1.1
MSMH0200451	1	-DIN10	45	12	60	90.0	94.0	*	*	*	*	8.67	1.4
MSMH0200481	1	-DIN10	48	15	70	96.0	100.0	*	*	*	*	8.77	1.6
MSMH0200501	1	-DIN10	50	15	70	100.0	104.0	*	*	*	*	8.84	1.8
MSMH0200561	1	-DIN10	56	15	70	112.0	116.0	*	*	*	*	8.99	2.2
MSMH0200571	1	-DIN10	57	15	70	114.0	118.0	*	*	*	*	9.02	2.3
MSMH0200601	1	-DIN10	60	15	70	120.0	124.0	*	*	*	*	9.10	2.5
MSMH0200761	2	-DIN10	76	20	*	152.0	156.0	*	*	*	*	9.37	3.9
MSMH0200801	2	-DIN10	80	20	*	160.0	164.0	*	*	*	*	9.42	4.4
MSMH0200951	2	-DIN10	95	20	*	190.0	194.0	*	*	*	*	9.60	6.1



直齒 Straight
DIN

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSMH-DIN10

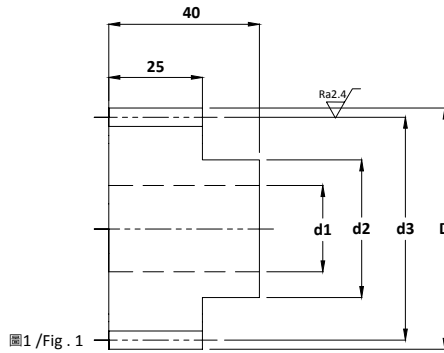


圖1 / Fig. 1

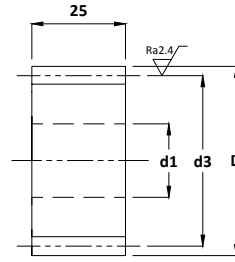


圖2 / Fig. 2

單位 / Dimension : mm

系列 MSMH-DIN10 直齒硬化齒輪
品質等級 DIN 10

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後表面噴砂處理
可依要求提供不同表面處理方式

Series MSMH-DIN10 Straight Hardened Pinions
Quality Grade DIN 10

Material SCM415/SCM440
Hardness: HRC 55°~60°
Sand-blasted on surfaces after hardening.
Other surface treatments are available upon request.



型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2.5 / Module 2.5													
MSMH0250121	1	-DIN10	12	9	20	30.0	35.0	*	*	*	*	*	0.3
MSMH0250131	1	-DIN10	13	9	20	32.5	37.5	*	*	*	*	*	0.3
MSMH0250141	1	-DIN10	14	9	25	35.0	40.0	*	*	*	*	*	0.3
MSMH0250151	1	-DIN10	15	9	25	37.5	42.5	*	*	*	*	*	0.4
MSMH0250161	1	-DIN10	16	9	30	40.0	45.0	*	*	*	*	*	0.4
MSMH0250171	1	-DIN10	17	9	30	42.5	47.5	*	*	*	*	8.13	0.5
MSMH0250181	1	-DIN10	18	9	35	45.0	50.0	*	*	*	*	8.30	0.5
MSMH0250191	1	-DIN10	19	12	35	47.5	52.5	*	*	*	*	8.48	0.6
MSMH0250201	1	-DIN10	20	12	35	50.0	55.0	*	*	*	*	8.65	0.6
MSMH0250211	1	-DIN10	21	12	35	52.5	57.5	*	*	*	*	8.81	0.7
MSMH0250221	1	-DIN10	22	12	40	55.0	60.0	*	*	*	*	8.96	0.7
MSMH0250231	1	-DIN10	23	12	40	57.5	62.5	*	*	*	*	9.09	0.8
MSMH0250241	1	-DIN10	24	12	40	60.0	65.0	*	*	*	*	9.23	0.9
MSMH0250251	1	-DIN10	25	12	45	62.5	67.5	*	*	*	*	9.29	0.9
MSMH0250301	1	-DIN10	30	12	50	75.0	80.0	*	*	*	*	9.87	1.3
MSMH0250351	1	-DIN10	35	12	60	87.5	92.5	*	*	*	*	10.28	1.8
MSMH0250381	1	-DIN10	38	12	60	95.0	100.0	*	*	*	*	10.47	2.1
MSMH0250401	1	-DIN10	40	12	70	100.0	105.0	*	*	*	*	10.59	2.3
MSMH0250451	1	-DIN10	45	15	70	112.5	117.5	*	*	*	*	10.84	2.9
MSMH0250481	1	-DIN10	48	15	80	120.0	125.0	*	*	*	*	10.97	3.3
MSMH0250501	1	-DIN10	50	15	80	125.0	130.0	*	*	*	*	11.05	3.5
MSMH0250571	1	-DIN10	57	15	90	142.5	147.5	*	*	*	*	11.28	4.5
MSMH0250601	1	-DIN10	60	15	90	150.0	155.0	*	*	*	*	11.37	5.0
MSMH0250761	1	-DIN10	76	20	*	190.0	195.0	*	*	*	*	11.71	7.9
MSMH0250801	1	-DIN10	80	25	*	200.0	205.0	*	*	*	*	11.78	8.7
MSMH0250951	1	-DIN10	95	25	*	237.5	242.5	*	*	*	*	12.00	12.2

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSMH-DIN10

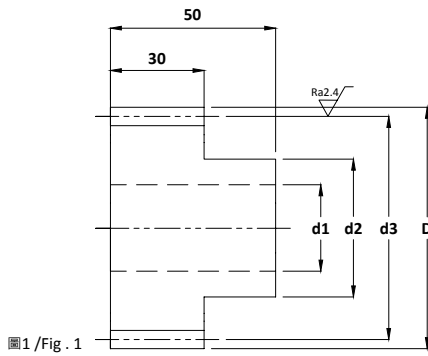


圖1 / Fig. 1

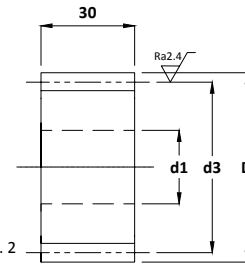


圖2 / Fig. 2

單位 / Dimension : mm

系列 MSMH-DIN10 直齒硬化齒輪
品質等級 DIN 10

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後表面噴砂處理
可依要求提供不同表面處理方式

Series MSMH-DIN10 Straight Hardened Pinions
Quality Grade DIN 10

Material SCM415/SCM440
Hardness: HRC 55°~60°
Sand-blasted on surfaces after hardening.
Other surface treatments are available upon request.

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3													
MSMH0300121	1	-DIN10	12	14	25	36	42	*	*	*	*	*	0.4
MSMH0300131	1	-DIN10	13	14	25	39	45	*	*	*	*	*	0.5
MSMH0300141	1	-DIN10	14	14	25	42	48	*	*	*	*	*	0.5
MSMH0300151	1	-DIN10	15	14	35	45	51	*	*	*	*	*	0.6
MSMH0300161	1	-DIN10	16	14	35	48	54	*	*	*	*	*	0.7
MSMH0300171	1	-DIN10	17	14	42	51	57	*	*	*	*	11.71	0.8
MSMH0300181	1	-DIN10	18	14	45	54	60	*	*	*	*	11.95	0.8
MSMH0300191	1	-DIN10	19	14	45	57	63	*	*	*	*	12.21	0.9
MSMH0300201	1	-DIN10	20	14	45	60	66	*	*	*	*	12.46	1.0
MSMH0300211	1	-DIN10	21	14	45	63	69	*	*	*	*	12.68	1.1
MSMH0300221	1	-DIN10	22	14	50	66	72	*	*	*	*	12.90	1.2
MSMH0300231	1	-DIN10	23	14	50	69	75	*	*	*	*	13.09	1.3
MSMH0300241	1	-DIN10	24	14	50	72	78	*	*	*	*	13.29	1.4
MSMH0300251	1	-DIN10	25	14	60	75	81	*	*	*	*	13.39	1.5
MSMH0300271	1	-DIN10	27	14	60	81	87	*	*	*	*	13.78	1.7
MSMH0300281	1	-DIN10	28	14	60	84	90	*	*	*	*	13.94	1.9
MSMH0300301	1	-DIN10	30	14	60	90	96	*	*	*	*	14.22	2.1
MSMH0300321	1	-DIN10	32	14	60	96	102	*	*	*	*	14.45	2.4
MSMH0300351	1	-DIN10	35	14	80	105	111	*	*	*	*	14.81	2.8
MSMH0300361	1	-DIN10	36	14	80	108	114	*	*	*	*	14.90	3.0
MSMH0300381	1	-DIN10	38	14	80	114	120	*	*	*	*	15.08	3.3
MSMH0300401	1	-DIN10	40	14	80	120	126	*	*	*	*	15.26	3.7
MSMH0300451	2	-DIN10	45	20	*	135	141	*	*	*	*	15.62	4.6
MSMH0300481	2	-DIN10	48	20	*	144	150	*	*	*	*	15.80	5.2
MSMH0300501	2	-DIN10	50	25	*	150	156	*	*	*	*	15.92	5.6
MSMH0300521	2	-DIN10	52	25	*	156	165	*	*	*	*	16.01	6.3
MSMH0300561	2	-DIN10	56	25	*	168	174	*	*	*	*	16.19	7.0
MSMH0300601	2	-DIN10	60	25	*	180	186	*	*	*	*	16.38	8.0
MSMH0300761	2	-DIN10	76	25	*	228	234	*	*	*	*	16.86	12.7
MSMH0300801	2	-DIN10	80	25	*	240	246	*	*	*	*	16.96	14.0
MSMH0300951	2	-DIN10	95	25	*	285	291	*	*	*	*	17.28	19.6



直齒 Straight
DIN

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSMH-DIN10

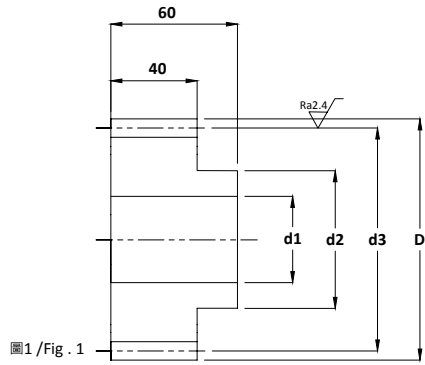


圖1 / Fig. 1

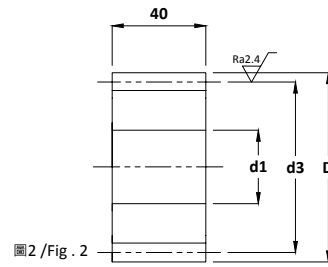


圖2 / Fig. 2

單位 / Dimension : mm

系列 MSMH-DIN10 直齒硬化齒輪
品質等級 DIN 10

Series MSMH-DIN10 Straight Hardened Pinions
Quality Grade DIN 10

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後表面噴砂處理
可依要求提供不同表面處理方式

Material SCM415/SCM440
Hardness: HRC 55°~60°
Sand-blasted on surfaces after hardening.
Other surface treatments are available upon request.

直齒 Straight
DIN

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 4 / Module 4													
MSMH0400121	1	-DIN10	12	16	35	48	56	*	*	*	*	*	0.9
MSMH0400131	1	-DIN10	13	16	35	52	60	*	*	*	*	*	1.0
MSMH0400141	1	-DIN10	14	16	45	56	64	*	*	*	*	*	1.1
MSMH0400151	1	-DIN10	15	16	45	60	68	*	*	*	*	*	1.3
MSMH0400161	1	-DIN10	16	16	45	64	72	*	*	*	*	*	1.4
MSMH0400171	1	-DIN10	17	16	50	68	76	*	*	*	*	20.82	1.6
MSMH0400181	1	-DIN10	18	16	50	72	80	*	*	*	*	21.25	1.8
MSMH0400191	1	-DIN10	19	16	60	76	84	*	*	*	*	21.71	2.0
MSMH0400201	1	-DIN10	20	16	60	80	88	*	*	*	*	22.15	2.1
MSMH0400211	1	-DIN10	21	16	70	84	92	*	*	*	*	22.55	2.3
MSMH0400221	1	-DIN10	22	16	70	88	96	*	*	*	*	22.94	2.6
MSMH0400231	1	-DIN10	23	16	75	92	100	*	*	*	*	23.27	2.8
MSMH0400241	1	-DIN10	24	16	75	96	104	*	*	*	*	23.64	3.0
MSMH0400251	1	-DIN10	25	16	75	100	108	*	*	*	*	23.80	3.2
MSMH0400301	1	-DIN10	30	16	*	120	128	*	*	*	*	25.28	4.5
MSMH0400381	2	-DIN10	38	25	*	152	160	*	*	*	*	26.81	7.1
MSMH0400401	2	-DIN10	40	25	*	160	168	*	*	*	*	27.13	7.8
MSMH0400451	2	-DIN10	45	25	*	180	188	*	*	*	*	27.77	9.8
MSMH0400481	2	-DIN10	48	25	*	192	200	*	*	*	*	28.09	11.1
MSMH0400501	2	-DIN10	50	25	*	200	208	*	*	*	*	28.30	12.0
MSMH0400521	2	-DIN10	52	25	*	208	216	*	*	*	*	28.46	12.9
MSMH0400561	2	-DIN10	56	25	*	224	232	*	*	*	*	28.79	14.9
MSMH0400601	2	-DIN10	60	25	*	240	248	*	*	*	*	29.12	17.1
MSMH0400761	2	-DIN10	76	25	*	304	312	*	*	*	*	29.99	27.0
MSMH0400801	2	-DIN10	80	25	*	320	328	*	*	*	*	30.16	29.8
MSMH0400951	2	-DIN10	95	25	*	380	388	*	*	*	*	30.72	41.8

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSMH-DIN10

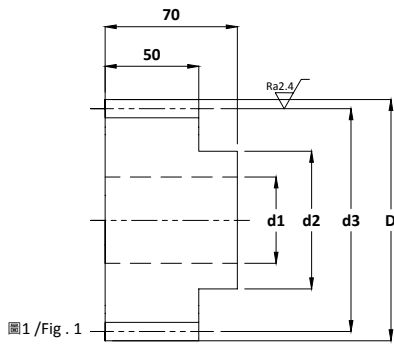


圖1 / Fig. 1

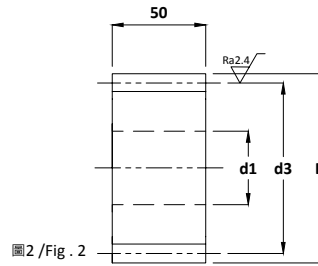


圖2 / Fig. 2

單位 / Dimension : mm

系列 MSMH-DIN10 直齒硬化齒輪
品質等級 DIN 10

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後表面噴砂處理
可依要求提供不同表面處理方式

Series MSMH-DIN10 Straight Hardened Pinions
Quality Grade DIN 10

Material SCM415/SCM440
Hardness: HRC 55°~60°
Sand-blasted on surfaces after hardening.
Other surface treatments are available upon request.

型號 Code	圖 Fig.	DIN	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 5 / Module 5													
MSMH0500121	1	-DIN10	12	20	45	60	70	*	*	*	*	*	1.6
MSMH0500131	1	-DIN10	13	20	45	65	75	*	*	*	*	*	1.8
MSMH0500141	1	-DIN10	14	20	55	70	80	*	*	*	*	*	2.1
MSMH0500151	1	-DIN10	15	20	60	75	85	*	*	*	*	*	2.3
MSMH0500161	1	-DIN10	16	20	60	80	90	*	*	*	*	*	2.6
MSMH0500171	1	-DIN10	17	20	70	85	95	*	*	*	*	32.53	2.9
MSMH0500181	1	-DIN10	18	20	70	90	100	*	*	*	*	33.20	3.2
MSMH0500191	1	-DIN10	19	20	70	95	105	*	*	*	*	33.96	3.6
MSMH0500201	1	-DIN10	20	20	70	100	110	*	*	*	*	34.61	3.9
MSMH0500211	1	-DIN10	21	20	70	105	115	*	*	*	*	35.24	4.3
MSMH0500221	1	-DIN10	22	20	80	110	120	*	*	*	*	35.85	4.7
MSMH0500231	1	-DIN10	23	20	80	115	125	*	*	*	*	36.36	5.1
MSMH0500241	1	-DIN10	24	20	80	120	130	*	*	*	*	36.93	5.5
MSMH0500251	1	-DIN10	25	20	80	125	135	*	*	*	*	37.19	5.9
MSMH0500301	1	-DIN10	30	20	90	150	160	*	*	*	*	39.49	8.3
MSMH0500361	2	-DIN10	36	30	*	180	190	*	*	*	*	41.39	11.7
MSMH0500381	2	-DIN10	38	30	*	190	200	*	*	*	*	41.89	12.9
MSMH0500401	2	-DIN10	40	30	*	200	210	*	*	*	*	42.39	14.3
MSMH0500451	2	-DIN10	45	30	*	225	235	*	*	*	*	43.39	17.9
MSMH0500481	2	-DIN10	48	30	*	240	250	*	*	*	*	43.89	20.2
MSMH0500501	2	-DIN10	50	30	*	250	260	*	*	*	*	44.22	21.9
MSMH0500521	2	-DIN10	52	30	*	260	270	*	*	*	*	44.48	23.6
MSMH0500561	2	-DIN10	56	30	*	280	290	*	*	*	*	44.99	27.2
MSMH0500601	2	-DIN10	60	30	*	300	310	*	*	*	*	45.50	31.1
MSMH0500761	2	-DIN10	76	30	*	380	390	*	*	*	*	46.85	49.2
MSMH0500801	2	-DIN10	80	30	*	400	410	*	*	*	*	47.13	54.4
MSMH0500951	2	-DIN10	95	30	*	475	485	*	*	*	*	48.00	76.1



※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSMH-DIN10

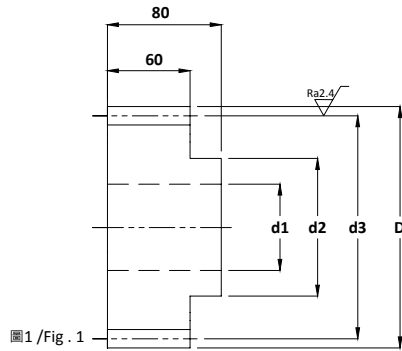


圖1 / Fig. 1

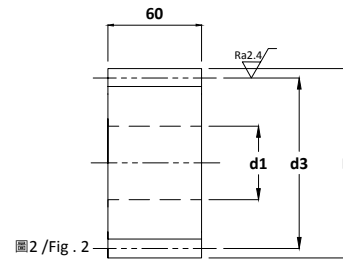


圖2 / Fig. 2

單位 / Dimension : mm

系列 MSMH-DIN10 直齒硬化齒輪
品質等級 DIN 10

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後表面噴砂處理
可依要求提供不同表面處理方式

Series MSMH-DIN10 Straight Hardened Pinions
Quality Grade DIN 10

Material SCM415/SCM440
Hardness: HRC 55°~60°
Sand-blasted on surfaces after hardening.
Other surface treatments are available upon request.



型號 Code	圖 Fig.	DIN	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 6 / Module 6													
MSMH0600151	1	-DIN10	15	20	60	90	102	*	*	*	*	*	3.8
MSMH0600191	1	-DIN10	19	20	80	114	126	*	*	*	*	48.86	5.9
MSMH0600201	1	-DIN10	20	20	90	120	132	*	*	*	*	49.85	6.4
MSMH0600211	1	-DIN10	21	20	90	126	138	*	*	*	*	50.74	7.0
MSMH0600221	1	-DIN10	22	20	100	132	144	*	*	*	*	51.62	7.7
MSMH0600251	1	-DIN10	25	20	110	150	162	*	*	*	*	53.56	9.7
MSMH0600301	2	-DIN10	30	30	*	180	192	*	*	*	*	56.87	13.6
MSMH0600361	2	-DIN10	36	30	*	216	228	*	*	*	*	59.61	19.2

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSMH-DIN10

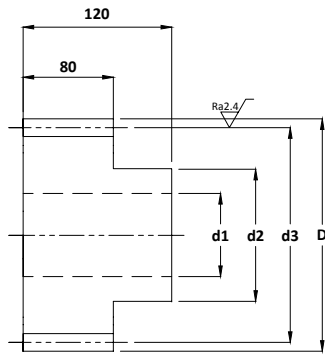


圖1 / Fig. 1

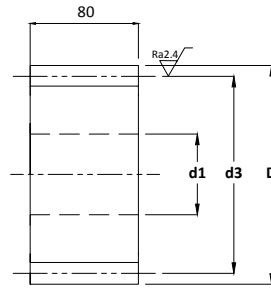


圖2 / Fig. 2

單位 / Dimension : mm

系列 MSMH-DIN10 直齒硬化齒輪
品質等級 DIN 10

材料 SCM415/SCM440
硬度 HRC 55°~60°
硬化處理後表面噴砂處理
可依要求提供不同表面處理方式

Series MSMH-DIN10 Straight Hardened Pinions
Quality Grade DIN 10

Material SCM415/SCM440
Hardness: HRC 55°~60°
Sand-blasted on surfaces after hardening.
Other surface treatments are available upon request.

型號 Code	圖 Fig.	DIN	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 8 / Module 8													
MSMH0800151	1	-DIN10	15	40	90	120	136	*	*	*	*	*	10.3
MSMH0800181	1	-DIN10	18	40	100	144	160	*	*	*	*	85.00	14.2
MSMH0800201	1	-DIN10	20	40	120	160	176	*	*	*	*	88.62	17.2
MSMH0800241	1	-DIN10	24	40	150	192	208	*	*	*	*	94.56	24.0
MSMH0800251	1	-DIN10	25	40	150	200	216	*	*	*	*	95.22	25.9
MSMH0800301	1	-DIN10	30	40	190	240	256	*	*	*	*	101.11	36.4

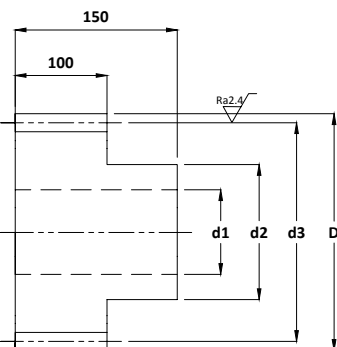


圖1 / Fig. 1

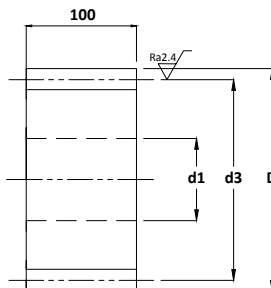


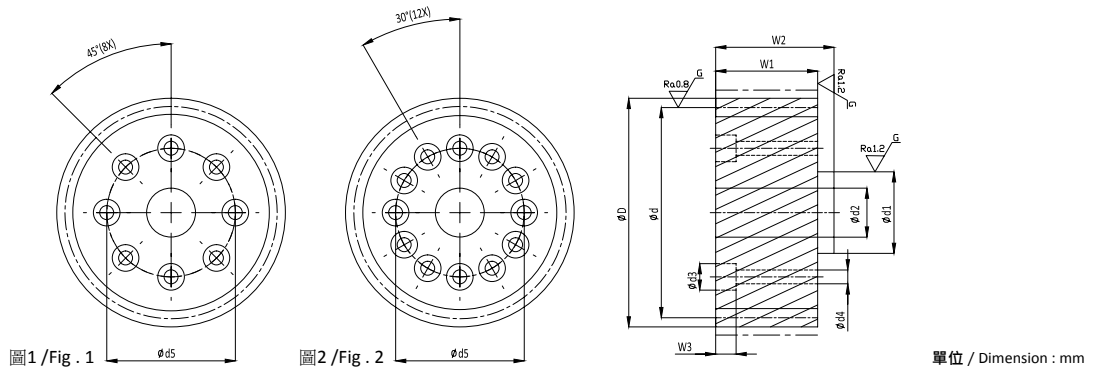
圖2 / Fig. 2

單位 / Dimension : mm

型號 Code	圖 Fig.	DIN	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 10 / Module 10													
MSMH1000201	2	-DIN10	20	40	150	200	220	*	*	*	*	138.47	33.6



MHFGH-DIN6



單位 / Dimension : mm

系列 MHFGH-DIN6 斜齒法蘭齒研齒輪
品質等級 DIN 6

材料 SCM415 / SCM440
硬度 HRC 55~60°
硬化處理後齒面研磨

Series MHFGH-DIN6 Helical Flange Teeth Ground Pinions
Quality Grade DIN 6

Material SCM415/ SCM440
Hardness: HRC 55~60°
Teeth Ground after Hardening

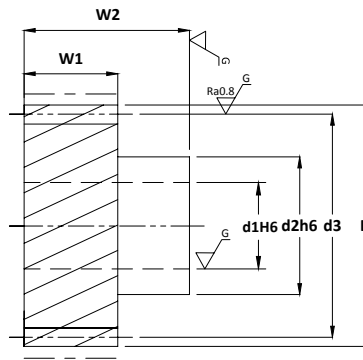
斜齒 Helical
DIN

型號 Code	圖 Fig.	DIN	齒數 No. of Teeth	轉位係數 Shift Coefficient	D	節圓直徑 Pitch Dia.	結合節圓直徑 Working Pitch Dia.	d1	d5	W1	W2	d4	d3	W3	d2
模數 2 / Module 2															
MHFGH0200261	1	-DIN6	26	0.407	60.800	55.174	56.800	20.0	31.5	26	29	5.5	9.5	12.0	16.2
MHFGH0200271	1	-DIN6	27	0.000	61.296	57.296	57.296	20.0	31.5	30	33	5.5	9.5	11.0	16.2
MHFGH0200291	1	-DIN6	29	0.415	67.200	61.540	63.200	20.0	31.5	26	29	5.5	9.5	12.0	16.2
MHFGH0200351	1	-DIN6	35	0.382	79.800	74.272	75.800	20.0	31.5	26	29	5.5	9.5	12.0	16.2
MHFGH0200291	1	-DIN6	29	0.415	67.200	61.540	63.200	25.0	40	26	29	6.6	11.0	10.5	20.3
MHFGH0200331	1	-DIN6	33	0.393	75.599	70.028	71.599	31.5	50	26	29	6.6	11.0	14.0	23.7
MHFGH0200361	1	-DIN6	36	0.000	80.394	76.394	76.394	31.5	50	30	33	6.6	11.0	8.0	23.7
MHFGH0200371	1	-DIN6	37	0.421	84.200	78.517	80.200	31.5	50	26	29	6.6	11.0	14.0	23.7
MHFGH0200372	2	-DIN6	37	0.421	84.200	78.517	80.200	31.5	50	26	29	6.6	11.0	14.0	23.7
模數 3 / Module 3															
MHFGH0300311	2	-DIN6	31	0.354	106.800	98.676	100.800	31.5	50	31	35	6.6	11.0	14.0	23.7
MHFGH0300351	2	-DIN6	35	0.365	119.600	111.409	113.600	50.0	80	31	35	9.0	14.0	10.5	32.2
MHFGH0300401	2	-DIN6	40	0.379	135.599	127.324	129.599	50.0	80	31	35	9.0	14.0	10.5	32.2
模數 4 / Module 4															
MHFGH0400301	2	-DIN6	30	0.000	135.324	127.324	127.324	50.0	80	45	49	9.0	14.0	9.5	32.2
MHFGH0400381	2	-DIN6	38	0.240	171.200	161.277	163.200	80.0	125	41	45	11.0	17.5	10.5	56.1
模數 5 / Module 5															
MHFGH0500211	2	-DIN6	21	0.000	121.109	111.409	111.409	50.0	80	59	64	9.0	14.0	11.5	32.2
MHFGH0500361	2	-DIN6	36	0.000	200.986	190.986	190.986	80.0	125	55	60	11.0	17.5	12.5	56.1

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MHGH-JIS2



單位 / Dimension : mm

系列 MHGH-JIS2 斜齒齒研齒輪
品質等級 JIS 2

材料 SCM415 / SCM440
左旋角 21°30'
硬度 HRC 55°~60°
硬化處理後齒面研磨
可根據要求提供鍵槽和螺孔。

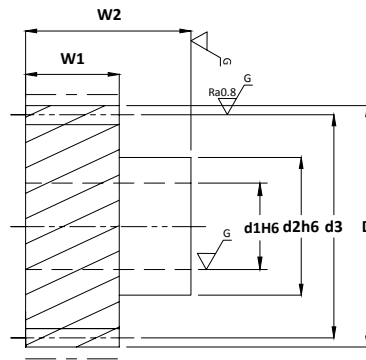
Series MHGH-JIS2 Helical Teeth Ground Pinions
Quality Grade JIS 2

Material SCM415 / SCM440
Left Hand Angle 21°30'
Hardness: HRC 55°~60°
Teeth Ground after Hardening
Keyway and screw holes are available upon request.

型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1 / Module 1												
MHGH010020	-JIS2	20	6	17	20	22	8	18	*	*	1.88	0.1
MHGH010022	-JIS2	22	8	18	22	24	8	18	*	*	1.94	0.1
MHGH010024	-JIS2	24	8	20	24	26	8	18	*	*	1.99	0.1
MHGH010025	-JIS2	25	8	20	25	27	8	18	*	*	2.01	0.1
MHGH010028	-JIS2	28	8	20	28	30	8	18	*	*	2.08	0.1
MHGH010030	-JIS2	30	10	25	30	32	8	18	*	*	2.11	0.1
MHGH010032	-JIS2	32	10	25	32	34	8	18	*	*	2.14	0.1
MHGH010035	-JIS2	35	10	25	35	37	8	18	*	*	2.18	0.1
MHGH010036	-JIS2	36	10	25	36	38	8	18	*	*	2.20	0.1
MHGH010040	-JIS2	40	10	30	40	42	8	18	*	*	2.24	0.1
MHGH010044	-JIS2	44	10	30	44	46	8	18	*	*	2.28	0.2
MHGH010045	-JIS2	45	10	30	45	47	8	18	*	*	2.28	0.2
MHGH010048	-JIS2	48	10	30	48	50	8	18	*	*	2.31	0.2
MHGH010050	-JIS2	50	12	35	50	52	8	18	*	*	2.32	0.2
MHGH010060	-JIS2	60	12	40	60	62	8	18	*	*	2.38	0.3
MHGH010070	-JIS2	70	12	40	70	72	8	18	*	*	2.42	0.4
MHGH010080	-JIS2	80	15	50	80	82	8	18	*	*	2.46	0.6
MHGH010090	-JIS2	90	15	50	90	92	8	18	*	*	2.48	0.7
MHGH010100	-JIS2	100	15	50	100	102	8	18	*	*	2.51	0.9



MHGH-JIS2



單位 / Dimension : mm

系列 MHGH-JIS2 斜齒齒研齒輪
品質等級 JIS 2

材料 SCM415 / SCM440
左旋角 21°30'
硬度 HRC 55°~60°
硬化處理後齒面研磨
可根據要求提供鍵槽和螺孔。

Series MHGH-JIS2 Helical Teeth Ground Pinions
Quality Grade JIS 2

Material SCM415 / SCM440
Left Hand Angle 21°30'
Hardness: HRC 55°~60°
Teeth Ground after Hardening
Keyway and screw holes are available upon request.

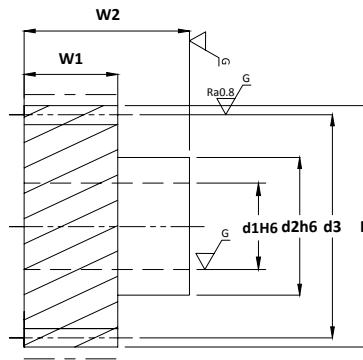


型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1.5 / Module 1.5												
MHGH015020	-JIS2	20	12	24	30	33	12	24	*	*	4.23	0.1
MHGH015022	-JIS2	22	12	26	33	36	12	24	*	*	4.37	0.1
MHGH015024	-JIS2	24	12	28	36	39	12	24	*	*	4.49	0.2
MHGH015025	-JIS2	25	12	30	37.5	40.5	12	24	*	*	4.54	0.2
MHGH015026	-JIS2	26	12	32	39	42	12	24	*	*	4.58	0.2
MHGH015028	-JIS2	28	15	36	42	45	12	24	*	*	4.68	0.2
MHGH015030	-JIS2	30	15	38	45	48	12	24	*	*	4.75	0.3
MHGH015032	-JIS2	32	15	40	48	51	12	24	*	*	4.83	0.3
MHGH015035	-JIS2	35	15	42	52.5	55.5	12	24	*	*	4.92	0.3
MHGH015036	-JIS2	36	15	45	54	57	12	24	*	*	4.95	0.4
MHGH015040	-JIS2	40	15	50	60	63	12	24	*	*	5.05	0.4
MHGH015044	-JIS2	44	15	50	66	69	12	24	*	*	5.12	0.5
MHGH015045	-JIS2	45	18	50	67.5	70.5	12	24	*	*	5.14	0.6
MHGH015048	-JIS2	48	18	50	72	75	12	24	*	*	5.20	0.6
MHGH015050	-JIS2	50	18	60	75	78	12	24	*	*	5.23	0.7
MHGH015052	-JIS2	52	18	60	78	81	12	24	*	*	5.26	0.7
MHGH015060	-JIS2	60	20	60	90	93	12	24	*	*	5.35	1.0
MHGH015070	-JIS2	70	20	60	105	108	12	24	*	*	5.45	1.3
MHGH015080	-JIS2	80	20	70	120	123	12	24	*	*	5.54	1.7
MHGH015090	-JIS2	90	20	70	135	138	12	24	*	*	5.59	2.1
MHGH015100	-JIS2	100	20	70	150	153	12	24	*	*	5.65	2.6

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MHGH-JIS2



單位 / Dimension : mm

系列 MHGH-JIS2 斜齒齒研齒輪
品質等級 JIS 2

材料 SCM415 / SCM440
左旋角 21°30'
硬度 HRC 55°~60°
硬化處理後齒面研磨
可根據要求提供鍵槽和螺孔。

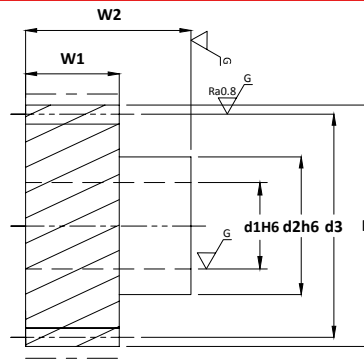
Series MHGH-JIS2 Helical Teeth Ground Pinions
Quality Grade JIS 2

Material SCM415 / SCM440
Left Hand Angle 21°30'
Hardness: HRC 55°~60°
Teeth Ground after Hardening
Keyway and screw holes are available upon request.

型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2 / Module 2												
MHGH020015	-JIS2	15	12	24	30	34	16	29	*	*	6.79	0.2
MHGH020016	-JIS2	16	12	26	32	36	16	29	*	*	6.97	0.2
MHGH020018	-JIS2	18	12	30	36	40	16	29	*	*	7.28	0.2
MHGH020020	-JIS2	20	15	32	40	44	16	29	*	*	7.52	0.3
MHGH020022	-JIS2	22	15	36	44	48	16	29	*	*	7.78	0.3
MHGH020024	-JIS2	24	15	38	48	52	16	29	*	*	7.98	0.4
MHGH020025	-JIS2	25	15	40	50	54	16	29	*	*	8.07	0.4
MHGH020026	-JIS2	26	15	42	52	56	16	29	*	*	8.15	0.4
MHGH020028	-JIS2	28	15	45	56	60	16	29	*	*	8.32	0.5
MHGH020030	-JIS2	30	18	50	60	64	16	29	*	*	8.46	0.5
MHGH020032	-JIS2	32	18	50	64	68	16	29	*	*	8.59	0.6
MHGH020035	-JIS2	35	18	50	70	74	16	29	*	*	8.75	0.7
MHGH020036	-JIS2	36	18	50	72	76	16	29	*	*	8.80	0.8
MHGH020040	-JIS2	40	20	60	80	84	16	29	*	*	8.97	0.9
MHGH020044	-JIS2	44	20	60	88	92	16	29	*	*	9.11	1.1
MHGH020045	-JIS2	45	20	60	90	94	16	29	*	*	9.15	1.2
MHGH020048	-JIS2	48	20	60	96	100	16	29	*	*	9.25	1.3
MHGH020050	-JIS2	50	25	60	100	104	16	29	*	*	9.30	1.5
MHGH020052	-JIS2	52	25	65	104	108	16	29	*	*	9.35	1.6
MHGH020060	-JIS2	60	25	65	120	124	16	29	*	*	9.52	2.1
MHGH020070	-JIS2	70	25	70	140	144	16	29	*	*	9.70	2.8
MHGH020080	-JIS2	80	25	80	160	164	16	29	*	*	9.84	3.6
MHGH020090	-JIS2	90	25	90	180	184	16	29	*	*	9.95	4.5
MHGH020100	-JIS2	100	25	100	200	204	16	29	*	*	10.43	5.6



MHGH-JIS2



單位 / Dimension : mm

系列 MHGH-JIS2 斜齒齒研齒輪
品質等級 JIS 2

材料 SCM415 / SCM440
左旋角 21°30'
硬度 HRC 55°~60°
硬化處理後齒面研磨
可根據要求提供鍵槽和螺孔。

Series MHGH-JIS2 Helical Teeth Ground Pinions
Quality Grade JIS 2

Material SCM415 / SCM440
Left Hand Angle 21°30'
Hardness: HRC 55°~60°
Teeth Ground after Hardening
Keyway and screw holes are available upon request.

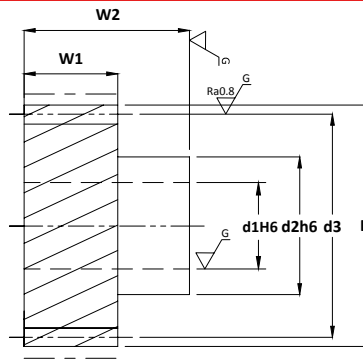


型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2.5 / Module 2.5												
MHGH025015	-JIS2	15	15	30	37.5	42.5	20	34	*	*	10.62	0.3
MHGH025016	-JIS2	16	15	32	40	45	20	34	*	*	10.90	0.3
MHGH025018	-JIS2	18	15	38	45	50	20	34	*	*	11.38	0.4
MHGH025020	-JIS2	20	18	40	50	55	20	34	*	*	11.75	0.5
MHGH025022	-JIS2	22	18	44	55	60	20	34	*	*	12.15	0.6
MHGH025024	-JIS2	24	18	48	60	65	20	34	*	*	12.48	0.7
MHGH025025	-JIS2	25	20	50	62.5	67.5	20	34	*	*	12.61	0.7
MHGH025026	-JIS2	26	20	50	65	70	20	34	*	*	12.74	0.8
MHGH025028	-JIS2	28	20	60	70	75	20	34	*	*	13.01	0.9
MHGH025030	-JIS2	30	20	65	75	80	20	34	*	*	13.21	1.0
MHGH025032	-JIS2	32	20	70	80	85	20	34	*	*	13.42	1.1
MHGH025035	-JIS2	35	20	70	87.5	92.5	20	34	*	*	13.67	1.3
MHGH025036	-JIS2	36	20	70	90	95	20	34	*	*	13.75	1.4
MHGH025040	-JIS2	40	25	70	100	105	20	34	*	*	14.03	1.7
MHGH025044	-JIS2	44	25	75	110	115	20	34	*	*	14.24	2.1
MHGH025045	-JIS2	45	25	75	112.5	117.5	20	34	*	*	14.30	2.2
MHGH025048	-JIS2	48	25	75	120	125	20	34	*	*	14.45	2.5
MHGH025050	-JIS2	50	25	80	125	130	20	34	*	*	14.53	2.7
MHGH025052	-JIS2	52	25	80	130	135	20	34	*	*	14.61	2.9
MHGH025060	-JIS2	60	25	80	150	155	20	34	*	*	14.88	3.8

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MHGH-JIS2



單位 / Dimension : mm

系列 MHGH-JIS2 斜齒齒研齒輪
品質等級 JIS 2

材料 SCM415 / SCM440
左旋角 21°30'
硬度 HRC 55°~60°
硬化處理後齒面研磨
可根據要求提供鍵槽和螺孔。

Series MHGH-JIS2 Helical Teeth Ground Pinions
Quality Grade JIS 2

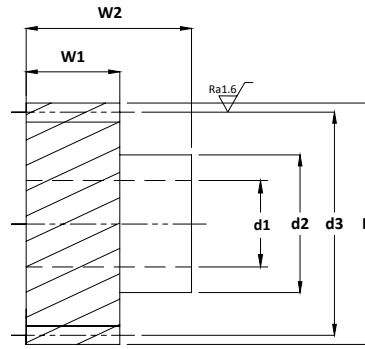
Material SCM415 / SCM440
Left Hand Angle 21°30'
Hardness: HRC 55°~60°
Teeth Ground after Hardening
Keyway and screw holes are available upon request.

型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3												
MHGH030015	-JIS2	15	18	36	45	51	25	41	*	*	15.93	0.4
MHGH030016	-JIS2	16	18	38	48	54	25	41	*	*	16.35	0.4
MHGH030018	-JIS2	18	18	40	54	60	25	41	*	*	17.08	0.5
MHGH030020	-JIS2	20	20	50	60	66	25	41	*	*	17.63	0.7
MHGH030022	-JIS2	22	20	54	66	72	25	41	*	*	18.23	0.8
MHGH030024	-JIS2	24	20	58	72	78	25	41	*	*	18.72	0.9
MHGH030025	-JIS2	25	20	60	75	81	25	41	*	*	18.92	1.0
MHGH030026	-JIS2	26	20	60	78	84	25	41	*	*	19.12	1.1
MHGH030028	-JIS2	28	20	70	84	90	25	41	*	*	19.51	1.2
MHGH030030	-JIS2	30	25	75	90	96	25	41	*	*	19.82	1.4
MHGH030032	-JIS2	32	25	75	96	102	25	41	*	*	20.14	1.6
MHGH030035	-JIS2	35	25	80	105	111	25	41	*	*	20.51	1.9
MHGH030036	-JIS2	36	25	80	108	114	25	41	*	*	20.63	2.0
MHGH030040	-JIS2	40	25	80	120	126	25	41	*	*	21.04	2.4
MHGH030044	-JIS2	44	25	80	132	138	25	41	*	*	21.37	2.9
MHGH030045	-JIS2	45	25	80	135	141	25	41	*	*	21.45	3.0
MHGH030048	-JIS2	48	25	85	144	150	25	41	*	*	21.68	3.4
MHGH030050	-JIS2	50	30	85	150	156	25	41	*	*	21.80	3.7
MHGH030052	-JIS2	52	30	85	156	162	25	41	*	*	21.92	4.0
MHGH030060	-JIS2	60	30	90	180	186	25	41	*	*	22.32	5.2



斜齒
Helical
JIS

CHM-JIS4



單位 / Dimension : mm

系列 CHM-JIS4 斜齒齒輪
品質等級 JIS 4

Series CHM-JIS4 Helical Pinions
Quality Grade JIS 4

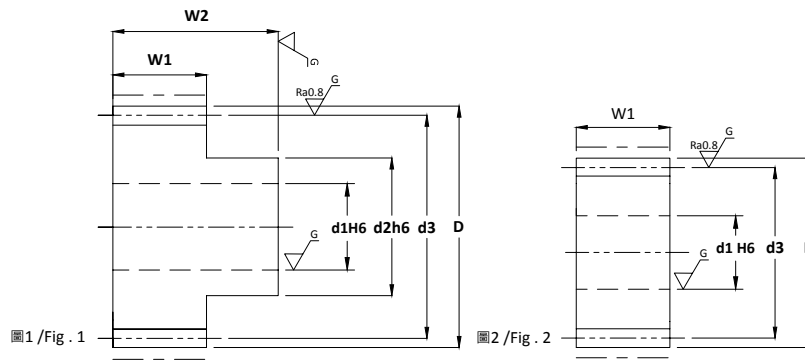
材料 S50C
左旋角 15°
可根據要求提供鍵槽和螺孔。

Material S50C
Left Hand Angle 15°
Keyway and screw holes are available upon request.



型號 Code	JIS	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2 / Module 2												
CHM020015	-JIS4	15	12	24	31.05	35.06	25	35	*	*	6.05	0.2
CHM020020	-JIS4	20	12	32	41.41	45.41	25	35	*	*	6.16	0.3
CHM020030	-JIS4	30	12	50	62.11	66.12	25	35	*	*	6.97	0.7
CHM020040	-JIS4	40	18	60	82.82	86.82	25	35	*	*	7.44	1.2
CHM020060	-JIS4	60	18	70	124.23	128.23	25	35	*	*	7.93	2.7
CHM020090	-JIS4	90	18	120	186.35	190.35	25	35	*	*	8.31	5.9
模數 3 / Module 3												
CHM030015	-JIS4	15	15	36	46.58	52.59	35	50	*	*	12.70	0.5
CHM030020	-JIS4	20	15	50	62.11	68.12	35	50	*	*	12.95	0.9
CHM030030	-JIS4	30	20	70	93.17	99.17	35	50	*	*	14.63	1.8
CHM030040	-JIS4	40	20	80	124.23	130.23	35	50	*	*	15.62	3.1
CHM030060	-JIS4	60	20	140	186.35	192.35	35	50	*	*	16.66	6.8

MSGH-JIS2



單位 / Dimension : mm

系列 MSGH-JIS2 直齒齒研齒輪
品質等級 JIS 2

材料 SCM415 / SCM440
硬度 HRC 55°~58°
硬化處理後齒面研磨
可根據要求提供鍵槽和螺孔

Series MSGH-JIS2 Straight Teeth Ground Pinions
Quality Grade JIS 2

Material SCM415 / SCM440
Hardness: HRC 55°~58°
Teeth Ground after Hardening
Keyway and screw holes are available upon request.

型號 Code	圖 Fig.	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1 / Module 1													
MSGH010018	1	-JIS2	18	8	15	18	20	10	15	3	1.4	1.81	0.1
MSGH010020	1	-JIS2	20	8	17	20	22	10	15	3	1.4	1.88	0.1
MSGH010020	2	-JIS2	20	10	17	20	22	10	15	4	1.8	1.88	0.1
MSGH010024	1	-JIS2	24	10	20	24	26	10	15	4	1.8	2.01	0.1
MSGH010024	2	-JIS2	24	12	20	24	26	10	15	4	1.8	2.01	0.1
MSGH010025	1	-JIS2	25	10	20	25	27	10	15	4	1.8	2.02	0.1
MSGH010025	2	-JIS2	25	12	20	25	27	10	15	4	1.8	2.02	0.1
MSGH010030	1	-JIS2	30	10	25	30	32	10	15	4	1.8	2.15	0.1
MSGH010030	2	-JIS2	30	12	25	30	32	10	15	4	1.8	2.15	0.1
MSGH010035	1	-JIS2	35	10	25	35	37	10	15	4	1.8	2.24	0.1
MSGH010035	2	-JIS2	35	15	25	35	37	10	15	5	2.3	2.24	0.1
MSGH010036	1	-JIS2	36	12	25	36	38	10	15	4	1.8	2.58	0.1
MSGH010036	2	-JIS2	36	15	25	36	38	10	15	5	2.3	2.58	0.1
MSGH010040	1	-JIS2	40	12	30	40	42	10	15	4	1.8	2.31	0.1
MSGH010040	2	-JIS2	40	15	30	40	42	10	15	5	2.3	2.31	0.1
MSGH010045	1	-JIS2	45	12	30	45	47	10	15	4	1.8	2.36	0.2
MSGH010045	2	-JIS2	45	15	30	45	47	10	15	5	2.3	2.36	0.2
MSGH010048	1	-JIS2	48	12	30	48	50	10	15	4	1.8	2.39	0.2
MSGH010048	2	-JIS2	48	15	30	48	50	10	15	5	2.3	2.39	0.2
MSGH010050	1	-JIS2	50	12	35	50	52	10	15	4	1.8	2.41	0.2
MSGH010050	2	-JIS2	50	15	35	50	52	10	15	5	2.3	2.41	0.2

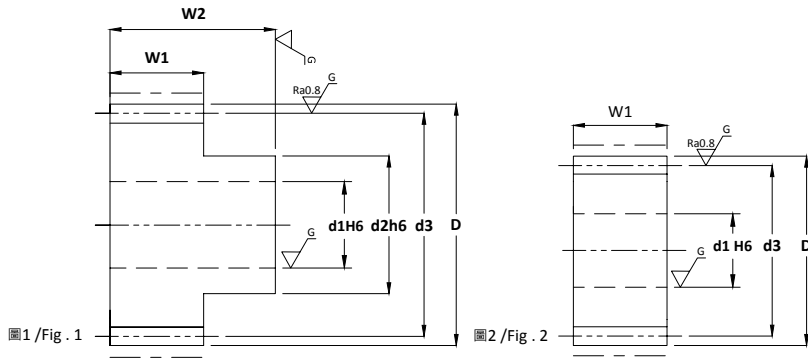


直齒 Straight JIS

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSGH-JIS2



單位 / Dimension : mm

系列 MSGH-JIS2 直齒齒研齒輪
品質等級 JIS 2

材料 SCM415 / SCM440
硬度 HRC 55°~58°
硬化處理後齒面研磨
可根據要求提供鍵槽和螺孔

Series MSGH-JIS2 Straight Teeth Ground Pinions
Quality Grade JIS 2

Material SCM415 / SCM440
Hardness: HRC 55°~58°
Teeth Ground after Hardening
Keyway and screw holes are available upon request.

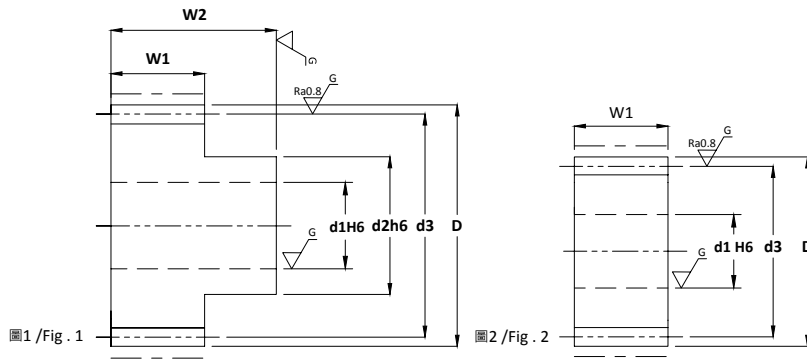


型號 Code	圖 Fig.	JIS	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1.5 / Module 1.5													
MSGH015015	1	JIS2	15	10	18	22.5	22.5	15	25	4	1.8	*	0.1
MSGH015018	1	JIS2	18	10	22	27	30	15	25	4	1.8	4.07	0.1
MSGH015018	2	JIS2	18	12	22	27	30	15	25	4	1.8	4.07	0.1
MSGH015020	1	JIS2	20	12	25	30	33	15	25	4	1.8	4.24	0.1
MSGH015020	2	JIS2	20	15	25	30	33	15	25	5	2.3	4.24	0.1
MSGH015024	1	JIS2	24	12	28	36	39	15	25	4	1.8	4.53	0.2
MSGH015024	2	JIS2	24	15	28	36	39	15	25	5	2.3	4.53	0.2
MSGH015025	1	JIS2	25	14	30	37.5	40.5	15	25	5	2.3	4.56	0.2
MSGH015025	2	JIS2	25	16	30	37.5	40.5	15	25	5	2.3	4.56	0.2
MSGH015030	1	JIS2	30	15	30	45	48	15	25	5	2.3	4.84	0.3
MSGH015030	2	JIS2	30	18	30	45	48	15	25	6	2.8	4.84	0.3
MSGH015035	1	JIS2	35	15	32	52.5	55.5	15	25	5	2.3	5.04	0.4
MSGH015035	2	JIS2	35	18	32	52.5	55.5	15	25	6	2.8	5.04	0.4
MSGH015036	1	JIS2	36	15	32	54	57	15	25	5	2.3	5.08	0.4
MSGH015036	2	JIS2	36	18	32	54	57	15	25	6	2.8	5.08	0.4
MSGH015040	1	JIS2	40	16	35	60	63	15	25	5	2.3	5.20	0.5
MSGH015040	2	JIS2	40	20	35	60	63	15	25	6	2.8	5.20	0.5
MSGH015045	1	JIS2	45	16	40	67.5	70.5	15	25	5	2.3	5.32	0.6
MSGH015045	2	JIS2	45	20	40	67.5	70.5	15	25	6	2.8	5.32	0.6
MSGH015048	1	JIS2	48	16	40	72	75	15	25	5	2.3	5.38	0.7
MSGH015048	2	JIS2	48	20	40	72	75	15	25	6	2.8	5.38	0.7
MSGH015050	1	JIS2	50	18	40	75	78	15	25	6	2.8	5.42	0.7
MSGH015050	2	JIS2	50	22	40	75	78	15	25	6	2.8	5.42	0.7
MSGH015055	1	JIS2	55	20	45	82.5	85.5	15	25	6	2.8	5.50	0.8
MSGH015055	2	JIS2	55	25	45	82.5	85.5	15	25	8	3.3	5.50	0.8
MSGH015060	1	JIS2	60	20	45	90	93	15	25	6	2.8	5.58	1.0
MSGH015060	2	JIS2	60	25	45	90	93	15	25	8	3.3	5.58	1.0
MSGH015070	1	JIS2	70	20	45	105	108	15	25	6	2.8	5.69	1.3
MSGH015070	2	JIS2	70	25	45	105	108	15	25	8	3.3	5.69	1.3
MSGH015080	1	JIS2	80	20	45	120	123	15	25	6	2.8	5.78	1.7
MSGH015080	2	JIS2	80	25	45	120	123	15	25	8	3.3	5.78	1.7

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSGH-JIS2



單位 / Dimension : mm

系列 MSGH-JIS2 直齒齒研齒輪
品質等級 JIS 2

Series MSGH-JIS2 Straight Teeth Ground Pinions
Quality Grade JIS 2

材料 SCM415 / SCM440
硬度 HRC 55°~58°
硬化處理後齒面研磨
可根據要求提供鍵槽和螺孔

Material SCM415 / SCM440
Hardness: HRC 55°~58°
Teeth Ground after Hardening
Keyway and screw holes are available upon request.

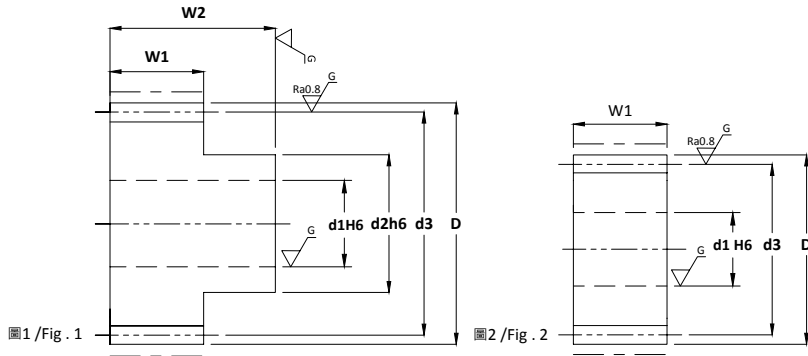
型號 Code	圖 Fig.	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2 / Module 2													
MSGH020015	1	JIS2	15	12	24	30	34	20	30	4	1.8	*	0.2
MSGH020015	2	JIS2	15	15	24	30	34	20	30	5	2.3	*	0.2
MSGH020018	1	JIS2	18	12	30	36	40	20	30	4	1.8	7.24	0.2
MSGH020018	2	JIS2	18	15	30	36	40	20	30	5	2.3	7.24	0.2
MSGH020020	1	JIS2	20	15	32	40	44	20	30	5	2.3	7.55	0.3
MSGH020020	2	JIS2	20	18	32	40	44	20	30	6	2.8	7.55	0.3
MSGH020024	1	JIS2	24	15	35	48	52	20	30	5	2.3	8.05	0.4
MSGH020024	2	JIS2	24	18	35	48	52	20	30	6	2.8	8.05	0.4
MSGH020025	1	JIS2	25	16	35	50	54	20	30	5	2.3	8.11	0.4
MSGH020025	2	JIS2	25	20	35	50	54	20	30	6	2.8	8.11	0.4
MSGH020030	1	JIS2	30	18	40	60	64	20	30	6	2.8	8.61	0.6
MSGH020030	2	JIS2	30	22	40	60	64	20	30	6	2.8	8.61	0.6
MSGH020035	1	JIS2	35	18	40	70	74	20	30	6	2.8	8.97	0.8
MSGH020035	2	JIS2	35	22	40	70	74	20	30	6	2.8	8.97	0.8
MSGH020036	1	JIS2	36	18	40	72	76	20	30	6	2.8	9.03	0.8
MSGH020036	2	JIS2	36	22	40	72	76	20	30	6	2.8	9.03	0.8
MSGH020040	1	JIS2	40	20	45	80	84	20	30	6	2.8	9.24	1.0
MSGH020040	2	JIS2	40	25	45	80	84	20	30	8	3.3	9.24	1.0
MSGH020045	1	JIS2	45	20	45	90	94	20	30	6	2.8	9.46	1.2
MSGH020045	2	JIS2	45	25	45	90	94	20	30	8	3.3	9.46	1.2
MSGH020048	1	JIS2	48	22	50	96	100	20	30	6	2.8	9.57	1.4
MSGH020048	2	JIS2	48	28	50	96	100	20	30	8	3.3	9.57	1.4
MSGH020050	1	JIS2	50	22	50	100	104	20	30	6	2.8	9.65	1.5
MSGH020050	2	JIS2	50	28	50	100	104	20	30	8	3.3	9.65	1.5
MSGH020055	1	JIS2	55	25	55	110	114	20	30	8	3.3	9.79	1.8
MSGH020055	2	JIS2	55	30	55	110	114	20	30	8	3.3	9.79	1.8
MSGH020060	1	JIS2	60	25	55	120	124	20	30	8	3.3	9.92	2.1
MSGH020060	2	JIS2	60	30	55	120	124	20	30	8	3.3	9.92	2.1
MSGH020070	1	JIS2	70	25	55	140	144	20	30	8	3.3	10.12	2.9
MSGH020070	2	JIS2	70	30	55	140	144	20	30	8	3.3	10.12	2.9
MSGH020080	1	JIS2	80	30	60	160	164	20	30	8	3.3	10.28	3.7
MSGH020080	2	JIS2	80	35	60	160	164	20	30	10	3.3	10.28	3.7

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.



MSGH-JIS2



單位 / Dimension : mm

系列 MSGH-JIS2 直齒齒研齒輪
品質等級 JIS 2

材料 SCM415 / SCM440
硬度 HRC 55°~58°
硬化處理後齒面研磨
可根據要求提供鍵槽和螺孔

Series MSGH-JIS2 Straight Teeth Ground Pinions
Quality Grade JIS 2

Material SCM415 / SCM440
Hardness: HRC 55°~58°
Teeth Ground after Hardening
Keyway and screw holes are available upon request.

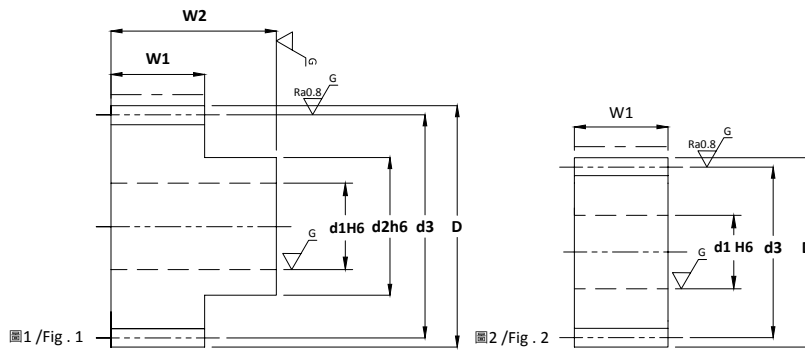
直齒 Straight JIS

型號 Code	圖 Fig.	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2.5 / Module 2.5													
MSGH025015	1	JIS2	15	15	30	37.5	42.5	25	37	5	2.3	*	0.3
MSGH025015	2	JIS2	15	18	30	37.5	42.5	25	37	6	2.8	*	0.3
MSGH025018	1	JIS2	18	18	38	45	50	25	37	6	2.8	11.32	0.4
MSGH025018	2	JIS2	18	20	38	45	50	25	37	6	2.8	11.32	0.4
MSGH025020	1	JIS2	20	18	40	50	55	25	37	6	2.8	11.8	0.5
MSGH025020	2	JIS2	20	22	40	50	55	25	37	6	2.8	11.8	0.5
MSGH025024	1	JIS2	24	18	40	60	65	25	37	6	2.8	12.59	0.7
MSGH025024	2	JIS2	24	22	40	60	65	25	37	6	2.8	12.59	0.7
MSGH025025	1	JIS2	25	20	45	62.5	67.5	25	37	6	2.8	12.68	0.8
MSGH025025	2	JIS2	25	25	45	62.5	67.5	25	37	8	3.3	12.68	0.8
MSGH025030	1	JIS2	30	22	50	75	80	25	37	6	2.8	13.46	1.1
MSGH025030	2	JIS2	30	28	50	75	80	25	37	8	3.3	13.46	1.1
MSGH025035	1	JIS2	35	25	55	87.5	92.5	25	37	8	3.3	14.02	1.5
MSGH025035	2	JIS2	35	30	55	87.5	92.5	25	37	8	3.3	14.02	1.5
MSGH025036	1	JIS2	36	25	55	90	95	25	37	8	3.3	14.11	1.5
MSGH025036	2	JIS2	36	30	55	90	95	25	37	8	3.3	14.11	1.5
MSGH025040	1	JIS2	40	25	55	100	105	25	37	8	3.3	14.45	1.9
MSGH025040	2	JIS2	40	32	55	100	105	25	37	10	3.3	14.45	1.9
MSGH025045	1	JIS2	45	30	60	112.5	117.5	25	37	8	3.3	14.79	2.4
MSGH025045	2	JIS2	45	35	60	112.5	117.5	25	37	10	3.3	14.79	2.4
MSGH025048	1	JIS2	48	30	60	120	125	25	37	8	3.3	14.96	2.7
MSGH025048	2	JIS2	48	35	60	120	125	25	37	10	3.3	14.96	2.7
MSGH025050	1	JIS2	50	30	60	125	130	25	37	8	3.3	15.07	2.9
MSGH025050	2	JIS2	50	35	60	125	130	25	37	10	3.3	15.07	2.9
MSGH025055	1	JIS2	55	30	70	137.5	142.5	25	37	8	3.3	15.29	3.5
MSGH025055	2	JIS2	55	40	70	137.5	142.5	25	37	12	3.3	15.29	3.5
MSGH025060	1	JIS2	60	30	70	150	155	25	37	8	3.3	15.51	4.1
MSGH025060	2	JIS2	60	40	70	150	155	25	37	12	3.3	15.51	4.1
MSGH025070	1	JIS2	70	40	85	175	180	25	37	12	3.3	15.82	5.5
MSGH025070	2	JIS2	70	50	85	175	180	25	37	14	3.8	15.82	5.5

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSGH-JIS2



單位 / Dimension : mm

系列 MSGH-JIS2 直齒齒研齒輪
品質等級 JIS 2

Series MSGH-JIS2 Straight Teeth Ground Pinions
Quality Grade JIS 2

材料 SCM415 / SCM440
硬度 HRC 55°~58°
硬化處理後齒面研磨
可根據要求提供鍵槽和螺孔

Material SCM415 / SCM440
Hardness: HRC 55°~58°
Teeth Ground after Hardening
Keyway and screw holes are available upon request.

型號 Code	圖 Fig.	JIS	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3													
MSGH030015	1	JIS2	15	18	36	45	51	30	45	6	2.8	*	0.4
MSGH030015	2	JIS2	15	22	36	45	51	30	45	6	2.8	*	0.4
MSGH030018	1	JIS2	18	20	45	54	60	30	45	6	2.8	16.30	0.6
MSGH030018	2	JIS2	18	25	45	54	60	30	45	8	3.3	16.30	0.6
MSGH030020	1	JIS2	20	20	45	60	66	30	45	6	2.8	16.99	0.7
MSGH030020	2	JIS2	20	25	45	60	66	30	45	8	3.3	16.99	0.7
MSGH030024	1	JIS2	24	20	45	72	78	30	45	6	3.3	18.13	1.0
MSGH030024	2	JIS2	24	25	45	72	78	30	45	8	3.3	18.13	1.0
MSGH030025	1	JIS2	25	25	55	75	81	30	45	8	3.3	18.26	1.1
MSGH030025	2	JIS2	25	30	55	75	81	30	45	10	3.3	18.26	1.1
MSGH030030	1	JIS2	30	28	60	90	96	30	45	8	3.3	19.39	1.5
MSGH030030	2	JIS2	30	35	60	90	96	30	45	10	3.3	19.39	1.5
MSGH030035	1	JIS2	35	30	60	105	111	30	45	8	3.3	20.19	2.1
MSGH030035	2	JIS2	35	35	60	105	111	30	45	10	3.3	20.19	2.1
MSGH030036	1	JIS2	36	30	60	108	114	30	45	8	3.3	20.32	2.2
MSGH030036	2	JIS2	36	35	60	108	114	30	45	10	3.3	20.32	2.2
MSGH030040	1	JIS2	40	30	70	120	126	30	45	8	3.3	20.81	2.6
MSGH030040	2	JIS2	40	40	70	120	126	30	45	12	3.3	20.81	2.6
MSGH030045	1	JIS2	45	30	70	135	141	30	45	8	3.3	21.30	3.3
MSGH030045	2	JIS2	45	40	70	135	141	30	45	12	3.3	21.30	3.3
MSGH030048	1	JIS2	48	35	70	144	150	30	45	10	3.3	21.54	3.7
MSGH030048	2	JIS2	48	40	70	144	150	30	45	12	3.3	21.54	3.7
MSGH030050	1	JIS2	50	32	70	150	156	30	45	10	3.3	21.71	4.1
MSGH030050	2	JIS2	50	40	70	150	156	30	45	12	3.3	21.71	4.1
MSGH030055	1	JIS2	55	35	70	165	171	30	45	10	3.3	22.02	4.9
MSGH030055	2	JIS2	55	40	70	165	171	30	45	12	3.3	22.02	4.9
MSGH030060	1	JIS2	60	35	80	180	186	30	45	10	3.3	22.34	5.8
MSGH030060	2	JIS2	60	45	80	180	186	30	45	14	3.8	22.34	5.8



直齒
Straight
JIS

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSGH-JIS2

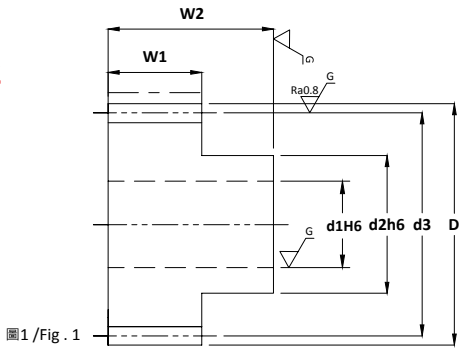


圖1 / Fig. 1

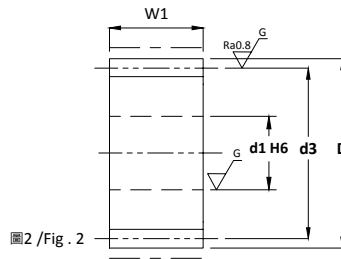


圖2 / Fig. 2

單位 / Dimension : mm

系列 MSGH-JIS2 直齒齒研齒輪
品質等級 JIS 2

材料 SCM415 / SCM440
硬度 HRC 55°~58°
硬化處理後齒面研磨
可根據要求提供鍵槽和螺孔

Series MSGH-JIS2 Straight Teeth Ground Pinions
Quality Grade JIS 2

Material SCM415 / SCM440
Hardness: HRC 55°~58°
Teeth Ground after Hardening
Keyway and screw holes are available upon request.

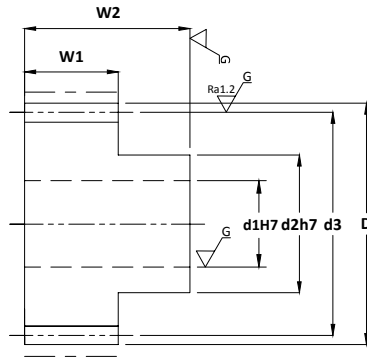
直齒 Straight JIS

型號 Code	圖 Fig.	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 4 / Module 4													
MSGH040015	1	JIS2	15	25	48	60	68	40	60	8	3.3	*	0.9
MSGH040015	2	JIS2	15	30	48	60	68	40	60	8	3.3	*	0.9
MSGH040018	1	JIS2	18	25	50	72	80	40	60	8	3.3	28.97	1.2
MSGH040018	2	JIS2	18	30	50	72	80	40	60	8	3.3	28.97	1.2
MSGH040020	1	JIS2	20	28	60	80	88	40	60	8	3.3	30.21	1.4
MSGH040020	2	JIS2	20	32	60	80	88	40	60	10	3.3	30.21	1.4
MSGH040024	1	JIS2	24	28	60	96	104	40	60	8	3.3	32.23	2.0
MSGH040024	2	JIS2	24	32	60	96	104	40	60	10	3.3	32.23	2.0
MSGH040025	1	JIS2	25	30	60	100	108	40	60	8	3.3	32.46	2.2
MSGH040025	2	JIS2	25	35	60	100	108	40	60	10	3.3	32.46	2.2
MSGH040030	1	JIS2	30	35	70	120	128	40	60	10	3.3	34.47	3.0
MSGH040030	2	JIS2	30	40	70	120	128	40	60	12	3.3	34.47	3.0
MSGH040035	1	JIS2	35	35	70	140	148	40	60	10	3.3	35.90	4.1
MSGH040035	2	JIS2	35	40	70	140	148	40	60	12	3.3	35.90	4.1
MSGH040036	1	JIS2	36	35	70	144	152	40	60	10	3.3	36.12	4.3
MSGH040036	2	JIS2	36	40	70	144	152	40	60	12	3.3	36.12	4.3
MSGH040040	1	JIS2	40	40	80	160	168	40	60	12	3.3	36.99	5.2
MSGH040040	2	JIS2	40	45	80	160	168	40	60	14	3.8	36.99	5.2
MSGH040045	1	JIS2	45	40	80	180	188	40	60	12	3.3	37.86	6.5
MSGH040045	2	JIS2	45	45	80	180	188	40	60	14	3.8	37.86	6.5
MSGH040048	1	JIS2	48	40	80	192	200	40	60	12	3.3	38.30	7.4
MSGH040048	2	JIS2	48	45	80	192	200	40	60	14	3.8	38.30	7.4
MSGH040050	1	JIS2	50	40	85	200	208	40	60	12	3.3	38.59	8.0
MSGH040050	2	JIS2	50	45	85	200	208	40	60	14	3.8	38.59	8.0

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSSH-JIS3



單位 / Dimension : mm

系列 CSSH-JIS3 直齒磨削齒輪
品質等級 JIS 3

Series CSSH-JIS3 Straight Skiving Pinions
Quality Grade JIS 3

材料 SCM415 / SCM440
硬度 HRC 55°~60°
硬化處理後齒面磨削
可根據要求提供鍵槽和螺孔。

Material SCM415 / SCM440
Hardness: HRC 55°~60°
Skiving after Hardening
Keyway and screw holes are available upon request.

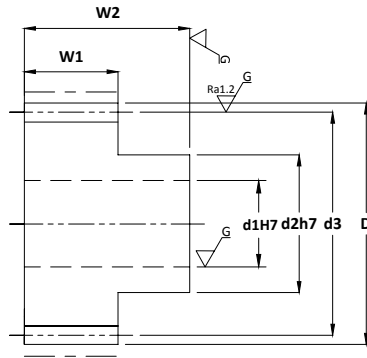
型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1 / Module 1												
CSSH010015	-JIS3	15	6	12	15	17	8	18	*	*	*	0.0
CSSH010016	-JIS3	16	6	13	16	18	8	18	*	*	*	0.0
CSSH010017	-JIS3	17	6	14	17	19	8	18	*	*	1.30	0.0
CSSH010018	-JIS3	18	6	15	18	20	8	18	*	*	1.32	0.0
CSSH010019	-JIS3	19	6	16	19	21	8	18	*	*	1.35	0.0
CSSH010020	-JIS3	20	6	17	20	22	8	18	*	*	1.38	0.0
CSSH010021	-JIS3	21	8	18	21	23	8	18	*	*	1.41	0.0
CSSH010022	-JIS3	22	8	18	22	24	8	18	*	*	1.43	0.0
CSSH010023	-JIS3	23	8	20	23	25	8	18	*	*	1.45	0.1
CSSH010024	-JIS3	24	8	20	24	26	8	18	*	*	1.47	0.1
CSSH010025	-JIS3	25	8	20	25	27	8	18	*	*	1.48	0.1
CSSH010026	-JIS3	26	8	20	26	28	8	18	*	*	1.51	0.1
CSSH010027	-JIS3	27	8	20	27	29	8	18	*	*	1.53	0.1
CSSH010028	-JIS3	28	8	20	28	30	8	18	*	*	1.54	0.1
CSSH010029	-JIS3	29	8	25	29	31	8	18	*	*	1.56	0.1
CSSH010030	-JIS3	30	10	25	30	32	8	18	*	*	1.58	0.1
CSSH010032	-JIS3	32	10	25	32	34	8	18	*	*	1.60	0.1
CSSH010034	-JIS3	34	10	25	34	36	8	18	*	*	1.63	0.1
CSSH010035	-JIS3	35	10	25	35	37	8	18	*	*	1.64	0.1
CSSH010036	-JIS3	36	10	25	36	38	8	18	*	*	1.65	0.1
CSSH010038	-JIS3	38	10	30	38	40	8	18	*	*	1.67	0.1
CSSH010040	-JIS3	40	10	30	40	42	8	18	*	*	1.69	0.1
CSSH010042	-JIS3	42	10	30	42	44	8	18	*	*	1.71	0.2
CSSH010044	-JIS3	44	10	30	44	46	8	18	*	*	1.72	0.2
CSSH010045	-JIS3	45	10	30	45	47	8	18	*	*	1.73	0.2
CSSH010048	-JIS3	48	10	30	48	50	8	18	*	*	1.75	0.2
CSSH010050	-JIS3	50	12	35	50	52	8	18	*	*	1.76	0.2
CSSH010055	-JIS3	55	12	35	55	57	8	18	*	*	1.79	0.3
CSSH010056	-JIS3	56	12	35	56	58	8	18	*	*	1.80	0.3
CSSH010060	-JIS3	60	12	40	60	62	8	18	*	*	1.82	0.3
CSSH010064	-JIS3	64	12	40	64	66	8	18	*	*	1.83	0.4
CSSH010070	-JIS3	70	12	40	70	72	8	18	*	*	1.85	0.4
CSSH010075	-JIS3	75	12	40	75	77	8	18	*	*	1.87	0.5
CSSH010080	-JIS3	80	15	50	80	82	8	18	*	*	1.88	0.6
CSSH010090	-JIS3	90	15	50	90	92	8	18	*	*	1.91	0.7
CSSH010100	-JIS3	100	15	50	100	102	8	18	*	*	1.93	0.9
CSSH010120	-JIS3	120	15	50	120	122	8	18	*	*	1.96	1.2

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.



CSSH-JIS3



單位 / Dimension : mm

系列 CSSH-JIS3 直齒磨削齒輪
品質等級 JIS 3

Series CSSH-JIS3 Straight Skiving Pinions
Quality Grade JIS 3

材料 SCM415 / SCM440
硬度 HRC 55°~60°
硬化處理後齒面磨削
可根據要求提供鍵槽和螺孔。

Material SCM415 / SCM440
Hardness: HRC 55°~60°
Skiving after Hardening
Keyway and screw holes are available upon request.

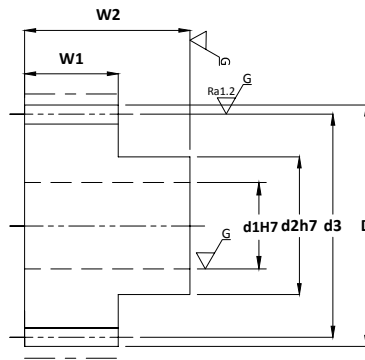


型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1.5 / Module 1.5												
CSSH015014	-JIS3	14	10	17	21	24	15	29	*	*	*	0.1
CSSH015015	-JIS3	15	10	18	22.5	25.5	15	29	*	*	*	0.1
CSSH015016	-JIS3	16	10	20	24	27	15	29	*	*	*	0.1
CSSH015017	-JIS3	17	10	21	25.5	28.5	15	29	*	*	3.66	0.1
CSSH015018	-JIS3	18	10	22.5	27	30	15	29	*	*	3.73	0.1
CSSH015019	-JIS3	19	10	23	28.5	31.5	15	29	*	*	3.81	0.1
CSSH015020	-JIS3	20	10	24	30	33	15	29	*	*	3.89	0.1
CSSH015021	-JIS3	21	10	25	31.5	34.5	15	29	*	*	3.96	0.2
CSSH015022	-JIS3	22	12	26	33	36	15	29	*	*	4.03	0.2
CSSH015023	-JIS3	23	12	27	34.5	37.5	15	29	*	*	4.09	0.2
CSSH015024	-JIS3	24	12	28	36	39	15	29	*	*	4.15	0.2
CSSH015025	-JIS3	25	12	30	37.5	40.5	15	29	*	*	4.18	0.2
CSSH015026	-JIS3	26	12	32	39	42	15	29	*	*	4.26	0.2
CSSH015027	-JIS3	27	15	34	40.5	43.5	15	29	*	*	4.30	0.3
CSSH015028	-JIS3	28	15	36	42	45	15	29	*	*	4.35	0.3
CSSH015029	-JIS3	29	15	37	43.5	46.5	15	29	*	*	4.39	0.3
CSSH015030	-JIS3	30	15	38	45	48	15	29	*	*	4.44	0.3
CSSH015032	-JIS3	32	15	40	48	51	15	29	*	*	4.51	0.3
CSSH015034	-JIS3	34	15	42	51	54	15	29	*	*	4.59	0.4
CSSH015035	-JIS3	35	15	42	52.5	55.5	15	29	*	*	4.62	0.4
CSSH015036	-JIS3	36	15	45	54	57	15	29	*	*	4.65	0.4
CSSH015038	-JIS3	38	15	45	57	60	15	29	*	*	4.71	0.5
CSSH015040	-JIS3	40	15	50	60	63	15	29	*	*	4.76	0.5
CSSH015042	-JIS3	42	15	50	63	66	15	29	*	*	4.82	0.6
CSSH015044	-JIS3	44	15	50	66	69	15	29	*	*	4.85	0.6
CSSH015045	-JIS3	45	18	50	67.5	70.5	15	29	*	*	4.88	0.7
CSSH015048	-JIS3	48	18	50	72	75	15	29	*	*	4.93	0.8
CSSH015050	-JIS3	50	18	60	75	78	15	29	*	*	4.97	0.8
CSSH015055	-JIS3	55	18	60	82.5	85.5	15	29	*	*	5.04	1.0
CSSH015056	-JIS3	56	18	60	84	87	15	29	*	*	5.06	1.0
CSSH015060	-JIS3	60	20	60	90	93	15	29	*	*	5.12	1.2
CSSH015064	-JIS3	64	20	60	96	99	15	29	*	*	5.16	1.3
CSSH015070	-JIS3	70	20	60	105	108	15	29	*	*	5.22	1.6
CSSH015075	-JIS3	75	20	60	112.5	115.5	15	29	*	*	5.26	1.8
CSSH015080	-JIS3	80	20	70	120	123	15	29	*	*	5.30	2.0
CSSH015090	-JIS3	90	20	70	135	138	15	29	*	*	5.37	2.6
CSSH015100	-JIS3	100	20	70	150	153	15	29	*	*	5.43	3.1

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSSH-JIS3



單位 / Dimension : mm

系列 CSSH-JIS3 直齒磨削齒輪
品質等級 JIS 3

Series CSSH-JIS3 Straight Skiving Pinions
Quality Grade JIS 3

材料 SCM415 / SCM440
硬度 HRC 55°~60°
硬化處理後齒面磨削
可根據要求提供鍵槽和螺孔。

Material SCM415 / SCM440
Hardness: HRC 55°~60°
Skiving after Hardening
Keyway and screw holes are available upon request.

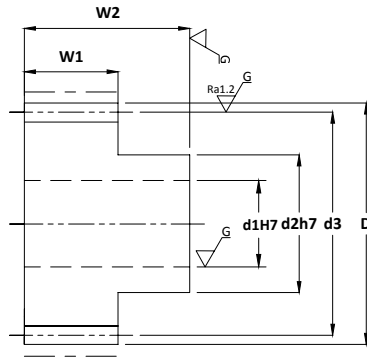
型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2 / Module 2												
CSSH020014	-JIS3	14	12	22	28	32	20	36	*	*	*	0.2
CSSH020015	-JIS3	15	12	24	30	34	20	36	*	*	*	0.2
CSSH020016	-JIS3	16	12	26	32	36	20	36	*	*	*	0.2
CSSH020017	-JIS3	17	12	28	34	38	20	36	*	*	6.50	0.2
CSSH020018	-JIS3	18	12	30	36	40	20	36	*	*	6.64	0.3
CSSH020019	-JIS3	19	12	31	38	42	20	36	*	*	6.78	0.3
CSSH020020	-JIS3	20	15	32	40	44	20	36	*	*	6.92	0.3
CSSH020021	-JIS3	21	15	34	42	46	20	36	*	*	7.04	0.4
CSSH020022	-JIS3	22	15	36	44	48	20	36	*	*	7.17	0.4
CSSH020023	-JIS3	23	15	37	46	50	20	36	*	*	7.27	0.4
CSSH020024	-JIS3	24	15	38	48	52	20	36	*	*	7.38	0.5
CSSH020025	-JIS3	25	15	40	50	54	20	36	*	*	7.43	0.5
CSSH020026	-JIS3	26	15	42	52	56	20	36	*	*	7.57	0.5
CSSH020027	-JIS3	27	15	44	54	58	20	36	*	*	7.65	0.6
CSSH020028	-JIS3	28	15	45	56	60	20	36	*	*	7.74	0.6
CSSH020029	-JIS3	29	15	48	58	62	20	36	*	*	7.82	0.6
CSSH020030	-JIS3	30	18	50	60	64	20	36	*	*	7.90	0.7
CSSH020032	-JIS3	32	18	50	64	68	20	36	*	*	8.03	0.8
CSSH020034	-JIS3	34	18	50	68	72	20	36	*	*	8.16	0.9
CSSH020035	-JIS3	35	18	50	70	74	20	36	*	*	8.22	0.9
CSSH020036	-JIS3	36	18	50	72	76	20	36	*	*	8.28	1.0
CSSH020038	-JIS3	38	18	50	76	80	20	36	*	*	8.37	1.1
CSSH020040	-JIS3	40	20	60	80	84	20	36	*	*	8.47	1.2
CSSH020042	-JIS3	42	20	60	84	88	20	36	*	*	8.56	1.3
CSSH020044	-JIS3	44	20	60	88	92	20	36	*	*	8.63	1.4
CSSH020045	-JIS3	45	20	60	90	94	20	36	*	*	8.67	1.5
CSSH020048	-JIS3	48	20	60	96	100	20	36	*	*	8.77	1.7
CSSH020050	-JIS3	50	25	60	100	104	20	36	*	*	8.84	1.8
CSSH020055	-JIS3	55	25	60	110	114	20	36	*	*	8.97	2.2
CSSH020056	-JIS3	56	25	60	112	116	20	36	*	*	8.99	2.2
CSSH020060	-JIS3	60	25	65	120	124	20	36	*	*	9.10	2.6
CSSH020064	-JIS3	64	25	65	128	132	20	36	*	*	9.17	2.9
CSSH020070	-JIS3	70	25	70	140	144	20	36	*	*	9.28	3.5
CSSH020075	-JIS3	75	25	70	150	154	20	36	*	*	9.35	3.9
CSSH020080	-JIS3	80	25	80	160	164	20	36	*	*	9.42	4.5
CSSH020090	-JIS3	90	25	80	180	184	20	36	*	*	9.54	5.6
CSSH020100	-JIS3	100	25	80	200	204	20	36	*	*	9.65	6.9



※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSSH-JIS3



單位 / Dimension : mm

系列 CSSH-JIS3 直齒磨削齒輪
品質等級 JIS 3

Series CSSH-JIS3 Straight Skiving Pinions
Quality Grade JIS 3

材料 SCM415 / SCM440
硬度 HRC 55°~60°
硬化處理後齒面磨削
可根據要求提供鍵槽和螺孔。

Material SCM415 / SCM440
Hardness: HRC 55°~60°
Skiving after Hardening
Keyway and screw holes are available upon request.

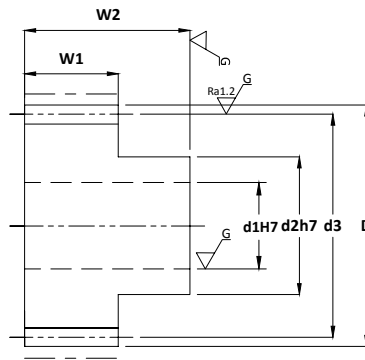


型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2.5 / Module 2.5												
CSSH025014	-JIS3	14	15	28	35	40	25	43	*	*	*	0.3
CSSH025015	-JIS3	15	15	30	37.5	42.5	25	43	*	*	*	0.4
CSSH025016	-JIS3	16	15	32	40	45	25	43	*	*	*	0.4
CSSH025017	-JIS3	17	15	35	42.5	47.5	25	43	*	*	10.16	0.4
CSSH025018	-JIS3	18	15	38	45	50	25	43	*	*	10.37	0.5
CSSH025019	-JIS3	19	15	39	47.5	52.5	25	43	*	*	10.60	0.5
CSSH025020	-JIS3	20	18	40	50	55	25	43	*	*	10.81	0.6
CSSH025021	-JIS3	21	18	42	52.5	57.5	25	43	*	*	11.01	0.7
CSSH025022	-JIS3	22	18	44	55	60	25	43	*	*	11.20	0.7
CSSH025023	-JIS3	23	18	46	57.5	62.5	25	43	*	*	11.36	0.8
CSSH025024	-JIS3	24	18	48	60	65	25	43	*	*	11.54	0.8
CSSH025025	-JIS3	25	20	50	62.5	67.5	25	43	*	*	11.62	0.9
CSSH025026	-JIS3	26	20	54	65	70	25	43	*	*	11.83	1.0
CSSH025027	-JIS3	27	20	56	67.5	72.5	25	43	*	*	11.96	1.0
CSSH025028	-JIS3	28	20	60	70	75	25	43	*	*	12.10	1.1
CSSH025029	-JIS3	29	20	60	72.5	77.5	25	43	*	*	12.21	1.2
CSSH025030	-JIS3	30	20	65	75	80	25	43	*	*	12.34	1.3
CSSH025032	-JIS3	32	20	70	80	85	25	43	*	*	12.54	1.4
CSSH025034	-JIS3	34	20	70	85	90	25	43	*	*	12.75	1.6
CSSH025035	-JIS3	35	20	70	87.5	92.5	25	43	*	*	12.85	1.7
CSSH025036	-JIS3	36	20	70	90	95	25	43	*	*	12.93	1.8
CSSH025038	-JIS3	38	20	70	95	100	25	43	*	*	13.09	2.0
CSSH025040	-JIS3	40	25	70	100	105	25	43	*	*	13.24	2.2
CSSH025042	-JIS3	42	25	75	105	110	25	43	*	*	13.37	2.4
CSSH025044	-JIS3	44	25	75	110	115	25	43	*	*	13.49	2.6
CSSH025045	-JIS3	45	25	75	112.5	117.5	25	43	*	*	13.55	2.7
CSSH025048	-JIS3	48	25	75	120	125	25	43	*	*	13.71	3.1
CSSH025050	-JIS3	50	25	80	125	130	25	43	*	*	13.82	3.4
CSSH025055	-JIS3	55	25	80	137.5	142.5	25	43	*	*	14.02	4.0
CSSH025056	-JIS3	56	25	80	140	145	25	43	*	*	14.05	4.2
CSSH025060	-JIS3	60	25	80	150	155	25	43	*	*	14.22	4.8
CSSH025070	-JIS3	70	25	80	170	180	25	43	*	*	14.50	6.4
CSSH025075	-JIS3	75	25	90	187.5	192.5	25	43	*	*	14.62	7.4
CSSH025080	-JIS3	80	25	90	200	205	25	43	*	*	14.73	8.4

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSSH-JIS3



單位 / Dimension : mm

系列 CSSH-JIS3 直齒磨削齒輪
品質等級 JIS 3

Series CSSH-JIS3 Straight Skiving Pinions
Quality Grade JIS 3

材料 SCM415 / SCM440
硬度 HRC 55°~60°
硬化處理後齒面磨削
可根據要求提供鍵槽和螺孔。

Material SCM415 / SCM440
Hardness: HRC 55°~60°
Skiving after Hardening
Keyway and screw holes are available upon request.

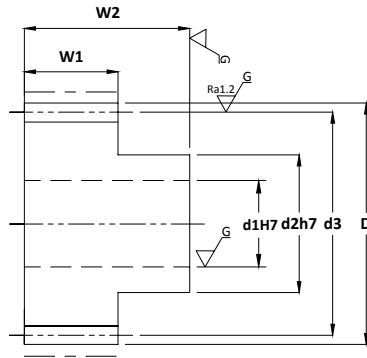
型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3												
CSSH030014	-JIS3	14	16	34	42	48	30	50	*	*	*	0.4
CSSH030015	-JIS3	15	16	36	45	51	30	50	*	*	*	0.5
CSSH030016	-JIS3	16	16	38	48	54	30	50	*	*	*	0.5
CSSH030017	-JIS3	17	16	37	51	57	30	50	*	*	14.63	0.6
CSSH030018	-JIS3	18	16	40	54	60	30	50	*	*	14.94	0.7
CSSH030019	-JIS3	19	16	45	57	63	30	50	*	*	15.27	0.7
CSSH030020	-JIS3	20	20	50	60	66	30	50	*	*	15.57	0.8
CSSH030021	-JIS3	21	20	52	63	69	30	50	*	*	15.85	0.9
CSSH030022	-JIS3	22	20	54	66	72	30	50	*	*	16.13	1.0
CSSH030023	-JIS3	23	20	56	69	75	30	50	*	*	16.36	1.0
CSSH030024	-JIS3	24	20	58	72	78	30	50	*	*	16.62	1.1
CSSH030025	-JIS3	25	20	60	75	81	30	50	*	*	16.73	1.2
CSSH030026	-JIS3	26	20	62	78	84	30	50	*	*	17.04	1.3
CSSH030027	-JIS3	27	20	65	81	87	30	50	*	*	17.23	1.4
CSSH030028	-JIS3	28	20	70	84	90	30	50	*	*	17.42	1.5
CSSH030029	-JIS3	29	20	70	87	93	30	50	*	*	17.59	1.6
CSSH030030	-JIS3	30	25	75	90	96	30	50	*	*	17.77	1.7
CSSH030032	-JIS3	32	25	75	96	102	30	50	*	*	18.06	1.9
CSSH030034	-JIS3	34	25	75	102	108	30	50	*	*	18.36	2.2
CSSH030035	-JIS3	35	25	80	105	111	30	50	*	*	18.51	2.3
CSSH030036	-JIS3	36	25	80	108	114	30	50	*	*	18.62	2.4
CSSH030038	-JIS3	38	25	80	114	120	30	50	*	*	18.85	2.7
CSSH030040	-JIS3	40	25	80	120	126	30	50	*	*	19.07	2.9
CSSH030042	-JIS3	42	25	80	126	132	30	50	*	*	19.26	3.2
CSSH030044	-JIS3	44	25	80	132	138	30	50	*	*	19.43	3.5
CSSH030045	-JIS3	45	25	80	135	141	30	50	*	*	19.52	3.7
CSSH030048	-JIS3	48	25	80	144	150	30	50	*	*	19.75	4.2
CSSH030050	-JIS3	50	30	85	150	156	30	50	*	*	19.90	4.5
CSSH030055	-JIS3	55	30	90	165	171	30	50	*	*	20.19	5.4
CSSH030056	-JIS3	56	30	90	168	174	30	50	*	*	20.24	5.6
CSSH030060	-JIS3	60	30	100	180	186	30	50	*	*	20.47	6.4
CSSH030070	-JIS3	70	30	100	210	216	30	50	*	*	20.88	8.6
CSSH030075	-JIS3	75	30	100	225	231	30	50	*	*	21.05	9.9
CSSH030080	-JIS3	80	30	100	240	246	30	50	*	*	21.21	11.2



※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSSH-JIS3



單位 / Dimension : mm

系列 CSSH-JIS3 直齒磨削齒輪
品質等級 JIS 3

Series CSSH-JIS3 Straight Skiving Pinions
Quality Grade JIS 3

材料 SCM415 / SCM440
硬度 HRC 55°~60°
硬化處理後齒面磨削
可根據要求提供鍵槽和螺孔。

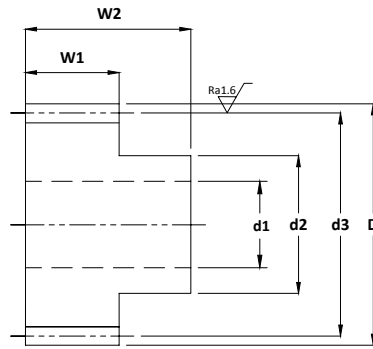
Material SCM415 / SCM440
Hardness: HRC 55°~60°
Skiving after Hardening
Keyway and screw holes are available upon request.



型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 4 / Module 4												
CSSH040014	-JIS3	14	20	40	56	64	40	65	*	*	*	0.8
CSSH040015	-JIS3	15	20	45	60	68	40	65	*	*	*	0.9
CSSH040016	-JIS3	16	20	50	64	72	40	65	*	*	*	1.0
CSSH040018	-JIS3	18	20	60	72	80	40	65	*	*	26.56	1.3
CSSH040020	-JIS3	20	20	65	80	88	40	65	*	*	27.69	1.6
CSSH040022	-JIS3	22	20	70	88	96	40	65	*	*	28.68	1.8
CSSH040024	-JIS3	24	20	75	96	104	40	65	*	*	29.55	2.2
CSSH040025	-JIS3	25	20	80	100	108	40	65	*	*	29.75	2.3
CSSH040028	-JIS3	28	20	85	112	120	40	65	*	*	30.98	2.9
CSSH040030	-JIS3	30	20	90	120	128	40	65	*	*	31.60	3.3
CSSH040032	-JIS3	32	25	90	128	136	40	65	*	*	32.11	3.7
CSSH040035	-JIS3	35	25	90	140	148	40	65	*	*	32.91	4.4
CSSH040036	-JIS3	36	25	90	144	152	40	65	*	*	33.11	4.6
CSSH040040	-JIS3	40	25	90	160	168	40	65	*	*	33.91	5.7
CSSH040042	-JIS3	42	25	90	168	176	40	65	*	*	34.24	6.2
CSSH040044	-JIS3	44	30	90	176	184	40	65	*	*	34.55	6.8
CSSH040045	-JIS3	45	30	90	180	188	40	65	*	*	34.71	7.1
CSSH040048	-JIS3	48	30	100	192	200	40	65	*	*	35.11	8.0
CSSH040050	-JIS3	50	30	100	200	108	40	65	*	*	35.38	2.3
CSSH040055	-JIS3	55	30	100	220	228	40	65	*	*	35.89	10.4
CSSH040056	-JIS3	56	30	110	224	232	40	65	*	*	35.99	10.8
CSSH040060	-JIS3	60	30	110	240	248	40	65	*	*	36.40	12.3
模數 5 / Module 5												
CSSH050020	-JIS3	20	25	82	100	110	50	75	*	*	43.27	3.3
CSSH050025	-JIS3	25	25	105	125	135	50	75	*	*	46.49	4.9
CSSH050030	-JIS3	30	25	120	150	160	50	75	*	*	49.37	6.9
模數 6 / Module 6												
CSSH060020	-JIS3	20	25	100	120	132	60	88	*	*	62.31	4.7
CSSH060025	-JIS3	25	30	125	150	162	60	88	*	*	66.95	7.1
CSSH060030	-JIS3	30	30	150	180	192	60	88	*	*	71.09	10.0

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.



CSM-JIS4

單位 / Dimension : mm

系列 CSM-JIS4 直齒齒輪
品質等級 JIS 4

Series CSM-JIS4 Straight Soft Pinions
Quality Grade JIS 4

材料 S50C
可根據要求提供鍵槽和螺孔

Material S50C
Keyway and screw holes are available upon request.

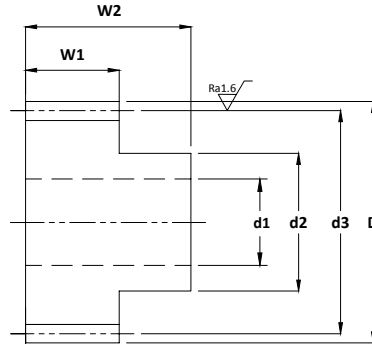
型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1 / Module 1												
CSM010015	-JIS4	15	8	17	15	17	10	20	*	*	*	0.1
CSM010016	-JIS4	16	8	18	16	18	10	20	*	*	*	0.1
CSM010017	-JIS4	17	8	19	17	19	10	20	*	*	0.89	0.1
CSM010018	-JIS4	18	8	20	18	20	10	20	*	*	0.91	0.1
CSM010019	-JIS4	19	8	21	19	21	10	20	*	*	0.93	0.1
CSM010020	-JIS4	20	8	16	20	22	10	20	*	*	0.95	0.1
CSM010021	-JIS4	21	8	17	21	23	10	20	*	*	0.97	0.1
CSM010022	-JIS4	22	8	18	22	24	10	20	*	*	0.98	0.1
CSM010023	-JIS4	23	8	18	23	25	10	20	*	*	1.00	0.1
CSM010024	-JIS4	24	8	20	24	26	10	20	*	*	1.01	0.1
CSM010025	-JIS4	25	8	20	25	27	10	20	*	*	1.02	0.1
CSM010026	-JIS4	26	8	22	26	28	10	20	*	*	1.04	0.1
CSM010027	-JIS4	27	8	22	27	29	10	20	*	*	1.05	4.8
CSM010028	-JIS4	28	8	22	28	30	10	20	*	*	1.06	0.1
CSM010029	-JIS4	29	8	24	29	31	10	20	*	*	1.07	0.1
CSM010030	-JIS4	30	10	25	30	32	10	20	*	*	1.08	0.1
CSM010032	-JIS4	32	10	26	32	34	10	20	*	*	1.10	0.1
CSM010034	-JIS4	34	10	26	34	36	10	20	*	*	1.12	0.1
CSM010035	-JIS4	35	10	26	35	37	10	20	*	*	1.13	0.1
CSM010036	-JIS4	36	10	28	36	38	10	20	*	*	1.14	0.1
CSM010038	-JIS4	38	10	32	38	40	10	20	*	*	1.15	0.1
CSM010040	-JIS4	40	10	35	40	42	10	20	*	*	1.16	0.2
CSM010042	-JIS4	42	10	35	42	44	10	20	*	*	1.17	0.2
CSM010044	-JIS4	44	10	35	44	46	10	20	*	*	1.19	0.2
CSM010045	-JIS4	45	10	35	45	47	10	20	*	*	1.19	0.2
CSM010046	-JIS4	46	10	35	46	48	10	20	*	*	1.20	0.2
CSM010048	-JIS4	48	10	35	48	50	10	20	*	*	1.20	0.2
CSM010050	-JIS4	50	10	35	50	52	10	20	*	*	1.21	0.3
CSM010052	-JIS4	52	10	35	52	54	10	20	*	*	1.22	0.3
CSM010054	-JIS4	54	10	35	54	56	10	20	*	*	1.23	0.3
CSM010055	-JIS4	55	10	35	55	57	10	20	*	*	1.23	0.3
CSM010056	-JIS4	56	10	35	56	58	10	20	*	*	1.24	0.3
CSM010058	-JIS4	58	10	35	58	60	10	20	*	*	1.24	0.3
CSM010060	-JIS4	60	10	35	60	62	10	20	*	*	1.25	0.4
CSM010062	-JIS4	62	10	40	62	64	10	20	*	*	1.25	0.4
CSM010064	-JIS4	64	10	40	64	66	10	20	*	*	1.26	0.4
CSM010065	-JIS4	65	10	40	65	67	10	20	*	*	1.26	0.4
CSM010066	-JIS4	66	10	40	66	68	10	20	*	*	1.26	0.4
CSM010068	-JIS4	68	10	40	68	70	10	20	*	*	1.27	0.5
CSM010070	-JIS4	70	10	40	70	72	10	20	*	*	1.27	0.5
CSM010072	-JIS4	72	10	40	72	74	10	20	*	*	1.28	0.5
CSM010075	-JIS4	75	10	40	75	77	10	20	*	*	1.28	0.5
CSM010076	-JIS4	76	10	40	76	78	10	20	*	*	1.29	0.6
CSM010080	-JIS4	80	10	40	80	82	10	20	*	*	1.29	0.6

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.



CSM-JIS4



單位 / Dimension : mm

系列 CSM-JIS4 直齒齒輪
品質等級 JIS 4

Series CSM-JIS4 Straight Soft Pinions
Quality Grade JIS 4

材料 S50C
可根據要求提供鍵槽和螺孔

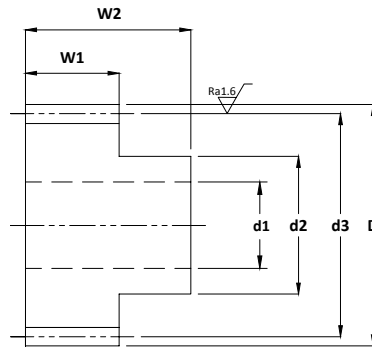
Material S50C
Keyway and screw holes are available upon request.

直齒 Straight JIS

型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1 / Module 1												
CSM010084	-JIS4	84	10	40	84	86	10	20	*	*	1.30	0.7
CSM010085	-JIS4	85	10	40	85	87	10	20	*	*	1.30	0.7
CSM010088	-JIS4	88	10	40	88	90	10	20	*	*	1.31	0.7
CSM010090	-JIS4	90	10	40	90	92	10	20	*	*	1.31	0.8
CSM010100	-JIS4	100	10	40	100	102	10	20	*	*	1.33	1.0
CSM010120	-JIS4	120	15	50	120	122	10	20	*	*	1.35	1.4
模數 1.5 / Module 1.5												
CSM015012	-JIS4	12	8	21	18	21	15	30	*	*	*	0.1
CSM015013	-JIS4	13	8	22.5	19.5	22.5	15	30	*	*	*	0.1
CSM015014	-JIS4	14	8	16	21	24	15	25	*	*	*	0.1
CSM015015	-JIS4	15	8	18	22.5	25.5	15	25	*	*	*	0.1
CSM015016	-JIS4	16	8	20	24	27	15	25	*	*	*	0.1
CSM015017	-JIS4	17	8	21	25.5	28.5	15	25	*	*	2.01	0.1
CSM015018	-JIS4	18	8	22	27	30	15	25	*	*	2.05	0.1
CSM015019	-JIS4	19	8	23	28.5	31.5	15	25	*	*	2.10	0.1
CSM015020	-JIS4	20	8	24	30	33	15	25	*	*	2.14	0.1
CSM015021	-JIS4	21	8	25	31.5	34.5	15	25	*	*	2.18	0.1
CSM015022	-JIS4	22	8	26	33	36	15	25	*	*	2.22	0.1
CSM015023	-JIS4	23	8	27	34.5	37.5	15	25	*	*	2.25	0.2
CSM015024	-JIS4	24	8	28	36	39	15	25	*	*	2.29	0.2
CSM015025	-JIS4	25	8	30	37.5	40.5	15	25	*	*	2.30	0.2
CSM015026	-JIS4	26	10	32	39	42	15	25	*	*	2.34	0.2
CSM015027	-JIS4	27	10	34	40.5	43.5	15	25	*	*	2.37	0.2
CSM015028	-JIS4	28	10	36	42	45	15	25	*	*	2.40	0.2
CSM015029	-JIS4	29	10	37	43.5	46.5	15	25	*	*	2.42	0.2
CSM015030	-JIS4	30	10	38	45	48	15	25	*	*	2.44	0.3
CSM015032	-JIS4	32	10	40	48	51	15	25	*	*	2.48	0.3
CSM015034	-JIS4	34	10	40	51	54	15	25	*	*	2.53	0.3
CSM015035	-JIS4	35	10	42	52.5	55.5	15	25	*	*	2.55	0.4
CSM015036	-JIS4	36	10	45	54	57	15	25	*	*	2.56	0.4
CSM015038	-JIS4	38	12	45	57	60	15	25	*	*	2.59	0.4
CSM015040	-JIS4	40	12	45	60	63	15	25	*	*	2.65	0.5
CSM015042	-JIS4	42	12	45	63	66	15	25	*	*	2.65	0.5
CSM015044	-JIS4	44	12	45	66	69	15	25	*	*	2.67	0.6
CSM015045	-JIS4	45	12	45	67.5	70.5	15	25	*	*	2.69	0.6
CSM015046	-JIS4	46	12	45	69	72	15	25	*	*	2.70	0.6
CSM015048	-JIS4	48	12	45	72	75	15	25	*	*	2.72	0.7
CSM015050	-JIS4	50	12	45	75	78	15	25	*	*	2.74	0.7
CSM015052	-JIS4	52	15	50	78	81	15	25	*	*	2.75	0.8
CSM015054	-JIS4	54	15	50	81	84	15	25	*	*	2.77	0.8
CSM015055	-JIS4	55	15	50	82.5	85.5	15	25	*	*	2.78	0.8
CSM015056	-JIS4	56	15	50	84	87	15	25	*	*	2.78	0.9
CSM015058	-JIS4	58	15	50	87	90	15	25	*	*	2.80	0.9

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.



CSM-JIS4

單位 / Dimension : mm

系列 CSM-JIS4 直齒齒輪
品質等級 JIS 4

Series CSM-JIS4 Straight Soft Pinions
Quality Grade JIS 4

材料 S50C
可根據要求提供鍵槽和螺孔

Material S50C
Keyway and screw holes are available upon request.

型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 1.5 / Module 1.5												
CSM015060	-JIS4	60	15	50	90	93	15	25	*	*	2.82	1.0
CSM015062	-JIS4	62	15	55	93	96	15	25	*	*	2.83	1.1
CSM015064	-JIS4	64	15	55	96	99	15	25	*	*	2.84	1.1
CSM015065	-JIS4	65	15	55	97.5	100.5	15	25	*	*	2.85	1.2
CSM015066	-JIS4	66	15	55	99	102	15	25	*	*	2.85	1.2
CSM015068	-JIS4	68	15	55	102	105	15	25	*	*	2.86	1.3
CSM015070	-JIS4	70	15	55	105	108	15	25	*	*	2.87	1.3
CSM015072	-JIS4	72	15	55	108	111	15	25	*	*	2.88	1.4
CSM015075	-JIS4	75	15	60	112.5	115.5	15	25	*	*	2.90	1.5
CSM015076	-JIS4	76	15	60	114	117	15	25	*	*	2.90	1.6
CSM015080	-JIS4	80	15	60	120	123	15	25	*	*	2.92	1.7
CSM015090	-JIS4	90	15	60	135	138	15	25	*	*	2.96	2.2
CSM015100	-JIS4	100	15	60	150	153	15	25	*	*	2.99	2.7

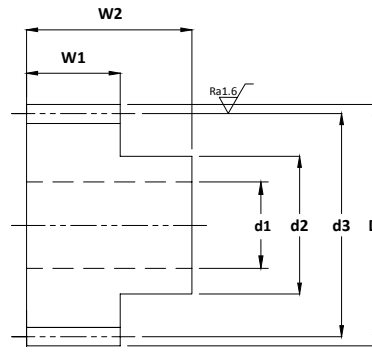
模數 2 / Module 2												
CSM020012	-JIS4	12	10	18	24	28	20	30	*	*	*	0.1
CSM020013	-JIS4	13	10	20	26	30	20	30	*	*	*	0.1
CSM020014	-JIS4	14	10	20	28	32	20	30	*	*	*	0.1
CSM020020	-JIS4	15	12	24	30	34	20	30	*	*	*	0.2
CSM020016	-JIS4	16	12	26	32	36	20	30	*	*	*	0.2
CSM020017	-JIS4	17	12	28	34	38	20	30	*	*	3.58	0.2
CSM020018	-JIS4	18	12	30	36	40	20	30	*	*	3.66	0.2
CSM020019	-JIS4	19	12	31	38	42	20	30	*	*	3.74	0.2
CSM020020	-JIS4	20	12	32	40	44	20	30	*	*	3.81	0.3
CSM020021	-JIS4	21	12	34	42	46	20	30	*	*	3.88	0.3
CSM020022	-JIS4	22	12	36	44	48	20	30	*	*	3.95	0.3
CSM020023	-JIS4	23	12	37	46	50	20	30	*	*	4.00	0.3
CSM020024	-JIS4	24	12	38	48	52	20	30	*	*	4.07	0.4
CSM020025	-JIS4	25	12	40	50	54	20	30	*	*	4.10	0.4
CSM020026	-JIS4	26	12	42	52	56	20	30	*	*	4.17	0.4
CSM020027	-JIS4	27	12	45	54	58	20	30	*	*	4.22	0.5
CSM020028	-JIS4	28	12	45	56	60	20	30	*	*	4.26	0.5
CSM020029	-JIS4	29	12	47	58	62	20	30	*	*	4.31	0.5
CSM020030	-JIS4	30	12	50	60	64	20	30	*	*	4.35	0.6
CSM020032	-JIS4	32	12	50	64	68	20	30	*	*	4.42	0.6
CSM020034	-JIS4	34	12	50	68	72	20	30	*	*	4.49	0.7
CSM020035	-JIS4	35	12	52	70	74	20	30	*	*	4.53	0.8
CSM020036	-JIS4	36	12	55	72	76	20	30	*	*	4.56	0.8
CSM020038	-JIS4	38	12	55	76	80	20	30	*	*	4.61	0.9
CSM020040	-JIS4	40	15	55	80	84	20	30	*	*	4.67	1.0
CSM020042	-JIS4	42	15	55	84	88	20	30	*	*	4.71	1.1
CSM020044	-JIS4	44	15	55	88	92	20	30	*	*	4.76	1.2
CSM020045	-JIS4	45	15	55	90	94	20	30	*	*	4.78	1.2

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.



CSM-JIS4



單位 / Dimension : mm

系列 CSM-JIS4 直齒齒輪
品質等級 JIS 4

Series CSM-JIS4 Straight Soft Pinions
Quality Grade JIS 4

材料 S50C
可根據要求提供鍵槽和螺孔

Material S50C
Keyway and screw holes are available upon request.

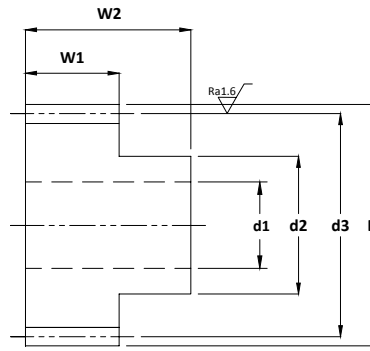


型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2 / Module 2												
CSM020046	-JIS4	46	15	55	92	96	20	30	*	*	4.80	1.3
CSM020048	-JIS4	48	15	55	96	100	20	30	*	*	4.83	1.4
CSM020050	-JIS4	50	15	55	100	104	20	30	*	*	4.87	1.5
CSM020052	-JIS4	52	15	55	104	108	20	30	*	*	4.90	1.6
CSM020054	-JIS4	54	15	55	108	112	20	30	*	*	4.93	1.7
CSM020055	-JIS4	55	15	55	110	114	20	30	*	*	4.94	1.8
CSM020056	-JIS4	56	15	55	112	116	20	30	*	*	4.95	1.9
CSM020058	-JIS4	58	15	60	116	120	20	30	*	*	4.98	2.0
CSM020060	-JIS4	60	15	60	120	124	20	30	*	*	5.01	2.1
CSM020062	-JIS4	62	15	60	124	128	20	30	*	*	5.03	2.3
CSM020064	-JIS4	64	15	60	128	132	20	30	*	*	5.05	2.4
CSM020065	-JIS4	65	15	60	130	134	20	30	*	*	5.06	2.5
CSM020066	-JIS4	66	15	60	132	136	20	30	*	*	5.07	2.6
CSM020068	-JIS4	68	15	60	136	140	20	30	*	*	5.09	2.7
CSM020070	-JIS4	70	15	60	140	144	20	30	*	*	5.11	2.9
CSM020072	-JIS4	72	15	60	144	148	20	30	*	*	5.13	3.0
CSM020075	-JIS4	75	20	60	150	154	20	30	*	*	5.15	3.3
CSM020076	-JIS4	76	20	60	152	156	20	30	*	*	5.16	3.4
CSM020080	-JIS4	80	20	60	160	164	20	30	*	*	5.19	3.7
CSM020090	-JIS4	90	20	70	180	184	20	30	*	*	5.26	4.7
CSM020100	-JIS4	100	20	70	200	204	20	30	*	*	5.32	5.8

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSM-JIS4



單位 / Dimension : mm

系列 CSM-JIS4 直齒齒輪
品質等級 JIS 4

Series CSM-JIS4 Straight Soft Pinions
Quality Grade JIS 4

材料 S50C
可根據要求提供鍵槽和螺孔

Material S50C
Keyway and screw holes are available upon request.

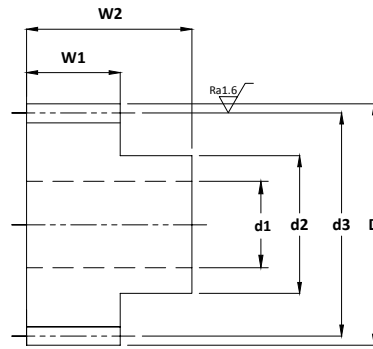
型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2.5 / Module 2.5												
CSM025012	-JIS4	12	12	23	30	35	25	37	*	*	*	0.2
CSM025013	-JIS4	13	12	25	32.5	37.5	25	37	*	*	*	0.2
CSM025014	-JIS4	14	12	25	35	40	25	37	*	*	*	0.3
CSM025015	-JIS4	15	15	30	37.5	42.5	25	37	*	*	*	0.3
CSM025016	-JIS4	16	15	32	40	45	25	37	*	*	*	0.3
CSM025017	-JIS4	17	15	35	42.5	47.5	25	37	*	*	5.60	0.4
CSM025018	-JIS4	18	15	38	45	50	25	37	*	*	5.71	0.4
CSM025019	-JIS4	19	15	39	47.5	52.5	25	37	*	*	5.84	0.5
CSM025020	-JIS4	20	15	40	50	55	25	37	*	*	5.96	0.5
CSM025021	-JIS4	21	15	42	52.5	57.5	25	37	*	*	6.06	0.6
CSM025022	-JIS4	22	15	44	55	60	25	37	*	*	6.17	0.6
CSM025023	-JIS4	23	15	46	57.5	62.5	25	37	*	*	6.26	0.7
CSM025024	-JIS4	24	15	48	60	65	25	37	*	*	6.36	0.7
CSM025025	-JIS4	25	15	50	62.5	67.5	25	37	*	*	6.40	0.8
CSM025026	-JIS4	26	15	55	65	70	25	37	*	*	6.52	0.8
CSM025027	-JIS4	27	15	60	67.5	72.5	25	37	*	*	6.59	0.9
CSM025028	-JIS4	28	15	60	70	75	25	37	*	*	6.66	1.0
CSM025029	-JIS4	29	15	62	72.5	77.5	25	37	*	*	6.73	1.0
CSM025030	-JIS4	30	15	65	75	80	25	37	*	*	6.80	1.1
CSM025032	-JIS4	32	15	70	80	85	25	37	*	*	6.91	1.2
CSM025034	-JIS4	34	15	70	85	90	25	37	*	*	7.02	1.4
CSM025035	-JIS4	35	15	70	87.5	92.5	25	37	*	*	7.08	1.5
CSM025036	-JIS4	36	15	70	90	95	25	37	*	*	7.12	1.5
CSM025038	-JIS4	38	20	70	95	100	25	37	*	*	7.21	1.7
CSM025040	-JIS4	40	20	70	100	105	25	37	*	*	7.30	1.9
CSM025042	-JIS4	42	20	70	105	110	25	37	*	*	7.37	2.1
CSM025044	-JIS4	44	20	70	110	115	25	37	*	*	7.43	2.3
CSM025045	-JIS4	45	20	70	112.5	117.5	25	37	*	*	7.47	2.4
CSM025046	-JIS4	46	20	70	115	120	25	37	*	*	7.50	2.5
CSM025048	-JIS4	48	20	70	120	125	25	37	*	*	7.55	2.7
CSM025050	-JIS4	50	20	70	125	130	25	37	*	*	7.61	2.9
CSM025052	-JIS4	52	20	70	130	135	25	37	*	*	7.66	3.1
CSM025054	-JIS4	54	20	70	135	140	25	37	*	*	7.70	3.4
CSM025055	-JIS4	55	20	70	137.5	142.5	25	37	*	*	7.72	3.5
CSM025056	-JIS4	56	20	70	140	145	25	37	*	*	7.74	3.6
CSM025058	-JIS4	58	20	70	145	150	25	37	*	*	7.79	3.8
CSM025060	-JIS4	60	25	70	150	155	25	37	*	*	7.83	4.1
CSM025062	-JIS4	62	25	80	155	160	25	37	*	*	7.86	4.4
CSM025064	-JIS4	64	25	80	160	165	25	37	*	*	7.90	4.7
CSM025065	-JIS4	65	25	80	162.5	167.5	25	37	*	*	7.91	4.8
CSM025066	-JIS4	66	25	80	165	170	25	37	*	*	7.93	4.9
CSM025068	-JIS4	68	25	80	170	175	25	37	*	*	7.96	5.2
CSM025070	-JIS4	70	25	80	175	180	25	37	*	*	7.99	5.5
CSM025072	-JIS4	72	25	80	180	185	25	37	*	*	8.01	5.9

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.



CSM-JIS4



單位 / Dimension : mm

系列 CSM-JIS4 直齒齒輪
品質等級 JIS 4

Series CSM-JIS4 Straight Soft Pinions
Quality Grade JIS 4

材料 S50C
可根據要求提供鍵槽和螺孔

Material S50C
Keyway and screw holes are available upon request.

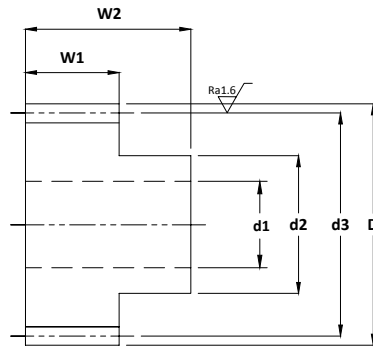
直齒 Straight JIS

型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 2.5 / Module 2.5												
CSM025075	-JIS4	75	25	80	187.5	192.5	25	37	*	*	8.05	6.3
CSM025076	-JIS4	76	25	80	190	195	25	37	*	*	8.07	6.5
CSM025080	-JIS4	80	25	80	200	205	25	37	*	*	8.11	7.2
CSM025090	-JIS4	90	30	90	225	230	25	37	*	*	8.22	9.1
CSM025100	-JIS4	100	30	90	250	255	25	37	*	*	8.31	11.1
模數 3 / Module 3												
CSM030012	-JIS4	12	15	28	36	42	30	45	*	*	*	0.3
CSM030013	-JIS4	13	15	30	39	45	30	45	*	*	*	0.3
CSM030014	-JIS4	14	15	32	42	48	30	45	*	*	*	0.4
CSM030015	-JIS4	15	15	36	45	51	30	45	*	*	*	0.4
CSM030016	-JIS4	16	15	38	48	54	30	45	*	*	*	0.5
CSM030017	-JIS4	17	15	39	51	57	30	45	*	*	8.06	0.5
CSM030018	-JIS4	18	15	40	54	60	30	45	*	*	8.23	0.6
CSM030019	-JIS4	19	15	45	57	63	30	45	*	*	8.41	0.7
CSM030020	-JIS4	20	15	50	60	66	30	45	*	*	8.58	0.7
CSM030021	-JIS4	21	15	52	63	69	30	45	*	*	8.73	0.8
CSM030022	-JIS4	22	15	54	66	72	30	45	*	*	8.89	0.9
CSM030023	-JIS4	23	15	56	69	75	30	45	*	*	9.01	0.9
CSM030024	-JIS4	24	15	58	72	78	30	45	*	*	9.16	1.0
CSM030025	-JIS4	25	20	60	75	81	30	45	*	*	9.22	1.1
CSM030026	-JIS4	26	20	65	78	84	30	45	*	*	9.39	1.2
CSM030027	-JIS4	27	20	65	81	87	30	45	*	*	9.49	1.3
CSM030028	-JIS4	28	20	70	84	90	30	45	*	*	9.60	1.3
CSM030029	-JIS4	29	20	70	87	93	30	45	*	*	9.69	1.4
CSM030030	-JIS4	30	20	75	90	96	30	45	*	*	9.79	1.5
CSM030032	-JIS4	32	20	75	96	102	30	45	*	*	9.95	1.7
CSM030034	-JIS4	34	20	80	102	108	30	45	*	*	10.12	1.9
CSM030035	-JIS4	35	20	80	105	111	30	45	*	*	10.20	2.1
CSM030036	-JIS4	36	20	80	108	114	30	45	*	*	10.26	2.2
CSM030038	-JIS4	38	25	80	114	120	30	45	*	*	10.38	2.4
CSM030040	-JIS4	40	25	80	120	126	30	45	*	*	10.51	2.6
CSM030042	-JIS4	42	25	80	126	132	30	45	*	*	10.61	2.9
CSM030044	-JIS4	44	25	80	132	138	30	45	*	*	10.71	3.2
CSM030045	-JIS4	45	25	80	135	141	30	45	*	*	10.76	3.3
CSM030046	-JIS4	46	25	80	138	144	30	45	*	*	10.80	3.5
CSM030048	-JIS4	48	25	80	144	150	30	45	*	*	10.88	3.7
CSM030050	-JIS4	50	25	80	150	156	30	45	*	*	10.96	4.1
CSM030052	-JIS4	52	25	80	156	162	30	45	*	*	11.03	4.4
CSM030054	-JIS4	54	25	80	162	168	30	45	*	*	11.09	4.7
CSM030055	-JIS4	55	25	80	165	171	30	45	*	*	11.12	4.9
CSM030056	-JIS4	56	25	80	168	174	30	45	*	*	11.15	5.0
CSM030058	-JIS4	58	25	80	174	180	30	45	*	*	11.22	5.4

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSM-JIS4



單位 / Dimension : mm

系列 CSM-JIS4 直齒齒輪
品質等級 JIS 4

材料 S50C
可根據要求提供鍵槽和螺孔

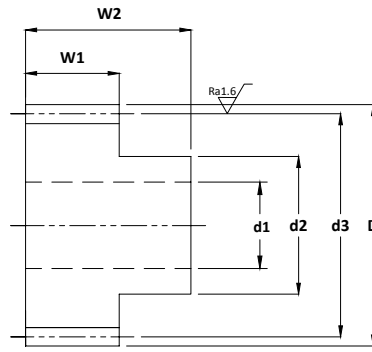
Series CSM-JIS4 Straight Soft Pinions
Quality Grade JIS 4

Material S50C
Keyway and screw holes are available upon request.

型號 Code	JIS	齒 數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 3 / Module 3												
CSM030060	-JIS4	60	25	80	180	186	30	45	*	*	11.28	5.8
CSM030062	-JIS4	62	25	80	186	192	30	45	*	*	11.32	6.1
CSM030064	-JIS4	64	25	80	192	198	30	45	*	*	11.37	6.5
CSM030065	-JIS4	65	25	80	195	201	30	45	*	*	11.40	6.7
CSM030066	-JIS4	66	25	90	198	204	30	45	*	*	11.42	6.9
CSM030068	-JIS4	68	25	90	204	210	30	45	*	*	11.46	7.3
CSM030070	-JIS4	70	25	90	210	216	30	45	*	*	11.50	7.8
CSM030072	-JIS4	72	25	90	216	222	30	45	*	*	11.54	8.2
CSM030075	-JIS4	75	25	90	225	231	30	45	*	*	11.60	8.9
CSM030076	-JIS4	76	25	90	228	234	30	45	*	*	11.62	9.1
CSM030080	-JIS4	80	30	90	240	246	30	45	*	*	11.69	10.1
CSM030090	-JIS4	90	30	100	270	276	30	45	*	*	11.84	12.7
CSM030100	-JIS4	100	30	100	300	306	30	45	*	*	11.97	15.6



CSM-JIS4



單位 / Dimension : mm

系列 CSM-JIS4 直齒齒輪
品質等級 JIS 4

Series CSM-JIS4 Straight Soft Pinions
Quality Grade JIS 4

材料 S50C
可根據要求提供鍵槽和螺孔

Material S50C
Keyway and screw holes are available upon request.

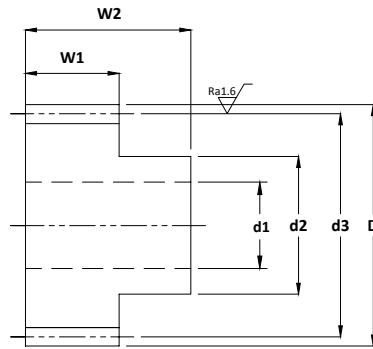


型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 4 / Module 4												
CSM040012	-JIS4	12	20	35	48	56	40	60	*	*	*	0.6
CSM040013	-JIS4	13	20	38	52	60	40	60	*	*	*	0.7
CSM040014	-JIS4	14	20	40	56	64	40	60	*	*	*	0.8
CSM040015	-JIS4	15	20	45	60	68	40	60	*	*	*	0.9
CSM040016	-JIS4	16	20	50	64	72	40	60	*	*	*	1.0
CSM040017	-JIS4	17	20	53	68	76	40	60	*	*	14.34	1.1
CSM040018	-JIS4	18	20	55	72	80	40	60	*	*	14.63	1.2
CSM040019	-JIS4	19	20	60	76	84	40	60	*	*	14.96	1.3
CSM040020	-JIS4	20	20	65	80	88	40	60	*	*	15.26	1.4
CSM040021	-JIS4	21	20	69	84	92	40	60	*	*	15.53	1.6
CSM040022	-JIS4	22	20	73	88	96	40	60	*	*	15.80	1.7
CSM040023	-JIS4	23	20	77	92	100	40	60	*	*	16.03	1.8
CSM040024	-JIS4	24	20	80	96	104	40	60	*	*	16.28	2.0
CSM040025	-JIS4	25	20	84	100	108	40	60	*	*	16.39	2.2
CSM040026	-JIS4	26	20	87	104	112	40	60	*	*	16.69	2.3
CSM040027	-JIS4	27	20	90	108	116	40	60	*	*	16.88	2.5
CSM040028	-JIS4	28	20	95	112	120	40	60	*	*	17.07	2.7
CSM040029	-JIS4	29	20	95	116	124	40	60	*	*	17.23	2.8
CSM040030	-JIS4	30	20	100	120	128	40	60	*	*	17.41	3.0
CSM040032	-JIS4	32	22	100	128	136	40	56	*	*	17.70	3.4
CSM040034	-JIS4	34	22	100	136	144	40	56	*	*	17.99	3.8
CSM040035	-JIS4	35	22	100	140	148	40	56	*	*	18.13	4.1
CSM040036	-JIS4	36	22	100	144	152	40	56	*	*	18.25	4.3
CSM040038	-JIS4	38	22	100	152	160	40	56	*	*	18.46	4.7
CSM040040	-JIS4	40	25	100	160	168	40	56	*	*	18.68	5.2
CSM040042	-JIS4	42	25	100	168	176	40	56	*	*	18.87	5.7
CSM040044	-JIS4	44	25	100	176	184	40	56	*	*	19.04	6.3
CSM040045	-JIS4	45	25	100	180	188	40	56	*	*	19.13	6.5
CSM040046	-JIS4	46	25	100	184	192	40	56	*	*	19.20	6.8
CSM040048	-JIS4	48	25	100	192	200	40	56	*	*	19.35	7.4
CSM040050	-JIS4	50	30	100	200	208	40	56	*	*	19.49	8.0
CSM040052	-JIS4	52	30	100	208	216	40	56	*	*	19.61	8.6
CSM040054	-JIS4	54	30	100	216	224	40	56	*	*	19.72	9.3
CSM040055	-JIS4	55	30	100	220	228	40	56	*	*	19.78	9.6
CSM040056	-JIS4	56	30	100	224	232	40	56	*	*	19.83	10.0
CSM040058	-JIS4	58	30	110	232	240	40	56	*	*	19.94	10.7
CSM040060	-JIS4	60	30	110	240	248	40	56	*	*	20.06	11.4
CSM040062	-JIS4	62	30	110	248	256	40	56	*	*	20.14	12.1
CSM040064	-JIS4	64	30	110	256	264	40	56	*	*	20.22	12.9
CSM040065	-JIS4	65	30	110	260	268	40	56	*	*	22.26	13.3
CSM040066	-JIS4	66	30	120	264	272	40	56	*	*	20.30	13.7
CSM040068	-JIS4	68	30	120	272	280	40	56	*	*	20.38	14.5
CSM040070	-JIS4	70	30	120	280	288	40	56	*	*	20.46	15.3
CSM040080	-JIS4	80	30	120	320	328	40	56	*	*	20.78	19.9

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSM-JIS4



單位 / Dimension : mm

系列 CSM-JIS4 直齒齒輪
品質等級 JIS 4

Series CSM-JIS4 Straight Soft Pinions
Quality Grade JIS 4

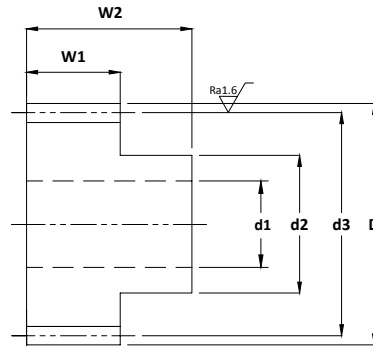
材料 S50C
可根據要求提供鍵槽和螺孔

Material S50C
Keyway and screw holes are available upon request.

型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 5 / Module 5												
CSM050012	-JIS4	12	22	46	60	70	50	75	*	*	*	1.1
CSM050013	-JIS4	13	22	50	65	75	50	75	*	*	*	1.3
CSM050014	-JIS4	14	22	52	70	80	50	75	*	*	*	1.5
CSM050015	-JIS4	15	22	60	75	85	50	75	*	*	*	1.7
CSM050016	-JIS4	16	22	65	80	90	50	75	*	*	*	1.9
CSM050017	-JIS4	17	22	68	85	95	50	75	*	*	22.41	2.1
CSM050018	-JIS4	18	22	70	90	100	50	75	*	*	22.87	2.3
CSM050019	-JIS4	19	22	76	95	105	50	75	*	*	23.37	2.5
CSM050020	-JIS4	20	22	82	100	110	50	75	*	*	23.84	2.8
CSM050021	-JIS4	21	25	90	105	115	50	75	*	*	24.27	3.1
CSM050022	-JIS4	22	25	95	110	120	50	75	*	*	24.69	3.3
CSM050023	-JIS4	23	25	100	115	125	50	75	*	*	25.05	3.6
CSM050024	-JIS4	24	25	100	120	130	50	75	*	*	25.44	3.9
CSM050025	-JIS4	25	25	105	125	135	50	75	*	*	25.62	4.2
CSM050026	-JIS4	26	25	110	130	140	50	75	*	*	26.08	4.5
CSM050027	-JIS4	27	25	110	135	145	50	75	*	*	26.38	4.9
CSM050028	-JIS4	28	25	110	140	150	50	75	*	*	26.67	5.2
CSM050029	-JIS4	29	25	115	145	155	50	75	*	*	26.93	5.6
CSM050030	-JIS4	30	25	120	150	160	50	75	*	*	27.21	5.9
CSM050032	-JIS4	32	30	120	160	170	50	71	*	*	27.65	6.7
CSM050034	-JIS4	34	30	120	170	180	50	71	*	*	28.11	7.5
CSM050035	-JIS4	35	30	120	175	185	50	71	*	*	28.34	7.9
CSM050036	-JIS4	36	30	120	180	190	50	71	*	*	28.51	8.3
CSM050038	-JIS4	38	30	120	190	200	50	71	*	*	28.85	9.2
CSM050040	-JIS4	40	30	120	200	210	50	71	*	*	29.20	10.2
CSM050042	-JIS4	42	30	120	210	220	50	71	*	*	29.48	11.2
CSM050044	-JIS4	44	30	120	220	230	50	71	*	*	29.75	12.2
CSM050045	-JIS4	45	30	120	225	235	50	71	*	*	29.89	12.8
CSM050046	-JIS4	46	30	120	230	240	50	71	*	*	30.00	13.3
CSM050048	-JIS4	48	30	120	240	250	50	71	*	*	30.23	14.5
CSM050050	-JIS4	50	30	120	250	260	50	71	*	*	30.46	15.6
CSM050052	-JIS4	52	30	130	260	270	50	71	*	*	30.64	16.9
CSM050054	-JIS4	54	30	130	270	280	50	71	*	*	30.81	18.1
CSM050055	-JIS4	55	30	130	275	285	50	71	*	*	30.91	18.8
CSM050056	-JIS4	56	30	130	280	290	50	71	*	*	30.99	19.4
CSM050058	-JIS4	58	30	130	290	300	50	71	*	*	31.17	20.8
CSM050060	-JIS4	60	30	130	300	310	50	71	*	*	31.34	22.2



CSM-JIS4



單位 / Dimension : mm

系列 CSM-JIS4 直齒齒輪
品質等級 JIS 4

Series CSM-JIS4 Straight Soft Pinions
Quality Grade JIS 4

材料 S50C
可根據要求提供鍵槽和螺孔

Material S50C
Keyway and screw holes are available upon request.

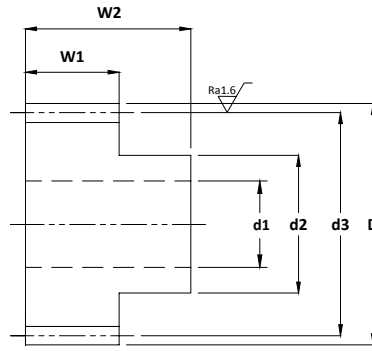


型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 6 / Module 6												
CSM060012	-JIS4	12	25	55	72	84	60	88	*	*	*	1.9
CSM060013	-JIS4	13	25	58	78	90	60	88	*	*	*	2.2
CSM060014	-JIS4	14	25	60	84	96	60	88	*	*	*	2.5
CSM060015	-JIS4	15	25	70	90	102	60	88	*	*	*	2.8
CSM060016	-JIS4	16	25	75	96	108	60	88	*	*	*	3.2
CSM060017	-JIS4	17	25	78	102	114	60	88	*	*	32.27	3.5
CSM060018	-JIS4	18	25	80	108	120	60	88	*	*	33.93	3.9
CSM060019	-JIS4	19	25	90	114	126	60	88	*	*	33.66	4.3
CSM060020	-JIS4	20	25	100	120	132	60	88	*	*	34.34	4.7
CSM060021	-JIS4	21	28	105	126	138	60	88	*	*	34.95	5.2
CSM060022	-JIS4	22	28	110	132	144	60	88	*	*	35.56	5.6
CSM060023	-JIS4	23	28	115	138	150	60	88	*	*	36.07	6.1
CSM060024	-JIS4	24	28	120	144	156	60	88	*	*	36.64	6.6
CSM060025	-JIS4	25	28	125	150	162	60	88	*	*	36.89	7.1
CSM060026	-JIS4	26	28	130	156	168	60	88	*	*	37.56	7.7
CSM060027	-JIS4	27	28	135	162	174	60	88	*	*	37.98	8.2
CSM060028	-JIS4	28	28	140	168	180	60	88	*	*	38.41	8.8
CSM060030	-JIS4	30	30	150	180	192	60	88	*	*	39.18	10.0
CSM060032	-JIS4	32	30	150	192	204	60	83	*	*	39.82	11.3
CSM060034	-JIS4	34	30	150	204	216	60	83	*	*	40.48	12.7
CSM060035	-JIS4	35	30	150	210	222	60	83	*	*	40.81	13.4
CSM060036	-JIS4	36	30	150	216	228	60	83	*	*	41.06	14.1
CSM060038	-JIS4	38	30	150	228	240	60	83	*	*	41.55	15.6
CSM060040	-JIS4	40	30	150	240	252	60	83	*	*	42.05	17.2
CSM060042	-JIS4	42	40	150	252	264	60	83	*	*	42.45	18.9
CSM060044	-JIS4	44	40	150	264	276	60	83	*	*	42.84	20.7
CSM060045	-JIS4	45	40	180	270	282	60	83	*	*	43.04	21.6
CSM060046	-JIS4	46	40	180	276	288	60	83	*	*	43.20	22.5
CSM060048	-JIS4	48	40	180	288	300	60	83	*	*	43.53	24.4
CSM060050	-JIS4	50	40	180	300	312	60	83	*	*	43.87	26.4

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

CSM-JIS4



單位 / Dimension : mm

系列 CSM-JIS4 直齒齒輪
品質等級 JIS 4

Series CSM-JIS4 Straight Soft Pinions
Quality Grade JIS 4

材料 S50C
可根據要求提供鍵槽和螺孔

Material S50C
Keyway and screw holes are available upon request.

型號 Code	JIS	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
模數 8 / Module 8												
CSM080012	-JIS4	12	28	75	96	112	75	110	*	*	*	4.3
CSM080013	-JIS4	13	28	80	104	120	75	110	*	*	*	4.9
CSM080014	-JIS4	14	28	85	112	128	75	110	*	*	*	5.6
CSM080015	-JIS4	15	28	90	120	136	75	110	*	*	*	6.3
CSM080016	-JIS4	16	28	100	128	144	75	110	*	*	*	7.0
CSM080017	-JIS4	17	28	105	136	152	75	110	*	*	53.78	7.8
CSM080018	-JIS4	18	28	110	144	160	75	110	*	*	54.89	8.7
CSM080019	-JIS4	19	28	120	152	168	75	110	*	*	56.01	9.6
CSM080020	-JIS4	20	28	130	160	176	75	110	*	*	57.23	10.5
CSM080021	-JIS4	21	30	140	168	184	75	110	*	*	58.26	11.5
CSM080022	-JIS4	22	30	150	176	192	75	110	*	*	59.27	12.5
CSM080023	-JIS4	23	30	155	184	200	75	110	*	*	60.12	13.6
CSM080024	-JIS4	24	30	160	192	208	75	110	*	*	61.06	14.7
CSM080025	-JIS4	25	30	170	200	216	75	110	*	*	61.49	15.8
CSM080026	-JIS4	26	30	170	208	224	75	110	*	*	62.61	17.0
CSM080027	-JIS4	27	30	170	216	232	75	110	*	*	63.31	18.3
CSM080028	-JIS4	28	30	180	224	240	75	110	*	*	64.02	19.5
CSM080030	-JIS4	30	30	180	240	256	75	110	*	*	65.30	22.2
模數 10 / Module 10												
CSM100015	-JIS4	15	30	115	150	170	90	130	*	*	*	11.6
CSM100020	-JIS4	20	30	165	200	220	90	130	*	*	85.85	19.4
CSM100025	-JIS4	25	40	200	250	270	90	130	*	*	92.24	29.2



MSGH-CP-DIN6

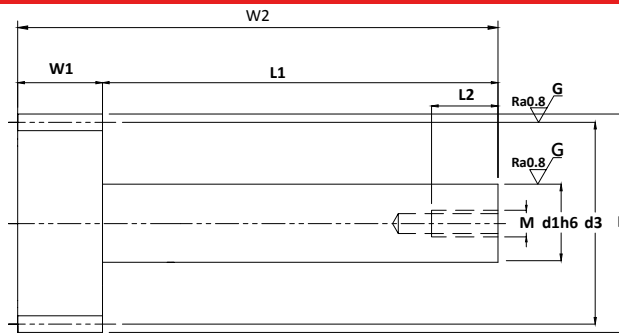


圖1 / Fig. 1

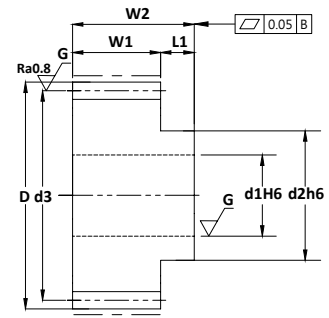


圖2 / Fig. 2

單位 / Dimension : mm

系列 MSGH-CP-DIN6 直齒齒研齒輪
品質等級 DIN6

材料 SCM415 / SCM440
硬度 HRC 50°~58°
硬化處理後齒面研磨

Series MSGH-CP-DIN6 Straight Teeth Ground Pinions
Quality Grade DIN6

Material SCM415 / SCM440
Hardness: HRC 50°~58°
Teeth Ground after Hardening

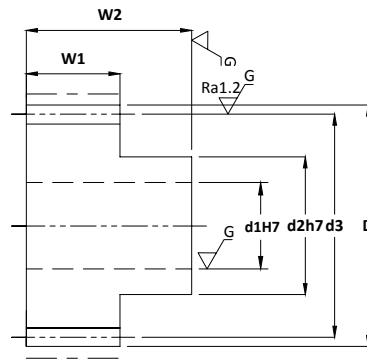
直齒 Straight
DIN

型號 Code	圖 Fig.	DIN	模數 Module	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	L1	L2	Hole	F _{ta} kN	kg
周節 5 / CP 5															
MSGH-CP0500201	1	-DIN6	1.5915	20	20h6	*	31.831	35	11.5	90	78.5	19	M8	3.45	1.4
MSGH-CP0500202	1	-DIN6	1.5915	20	20h6	*	31.831	35	11.5	90	75.5	19	M8	3.45	1.4
MSGH-CP0500203	2	-DIN6	1.5915	20	10h6	25	31.831	35	14.5	23	8.5	*	*	4.35	0.5
周節 7.5 / CP 7.5															
MSGH-CP0750201	1	-DIN6	2.3873	20	25h6	*	47.746	52.5	19.5	108	88.5	22	M10	8.79	3.7
MSGH-CP0750202	2	-DIN6	2.3873	20	15h7	40	47.746	52.5	19.5	30	10.5	*	*	8.79	1.4
周節 10 / CP 10															
MSGH-CP1000201	1	-DIN6	3.1831	20	40h6	*	63.662	70	29.5	162	132.5	28	M12	17.73	9.8
MSGH-CP1000202	2	-DIN6	3.1831	20	15h7	50	63.662	70	29.5	43	13.5	*	*	17.73	3.7

※ 重量僅供參考，實重須經實秤為準。

※ Weight only for reference. Actual scale should be Weighing.

MSSH-CP-JIS3



單位 / Dimension : mm

系列 MSSH-CP-JIS3 直齒磨削齒輪
品質等級 JIS 3

Series MSSH-CP-JIS3 Straight Skiving Pinions
Quality Grade JIS 3

材料 SCM415 / SCM440
硬度 HRC 50°~58°
硬化處理後齒面磨削

Material SCM415 / SCM440
Hardness: HRC 50°~58°
Skiving after Hardening

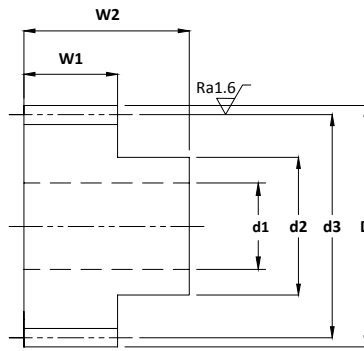
可根據要求提供鍵槽和螺孔

Keyway and screw holes are available upon request.

型號 Code	JIS	模數 Module	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
周節 5 / CP 5													
MSSH-CP050020	-JIS3	1.5915	20	8	25	31.83	35.01	15	30	*	*	5.22	0.2
MSSH-CP050025	-JIS3	1.5915	25	10	32	39.79	42.97	15	30	*	*	5.59	0.3
MSSH-CP050030	-JIS3	1.5915	30	10	38	47.74	50.93	15	30	*	*	5.87	0.4
MSSH-CP050040	-JIS3	1.5915	40	12	50	63.66	66.84	15	30	*	*	6.23	0.6
周節 10 / CP 10													
MSSH-CP100020	-JIS3	3.1831	20	15	50	63.66	70.03	30	50	*	*	20.90	0.9
MSSH-CP100025	-JIS3	3.1831	25	20	60	79.57	85.94	30	50	*	*	22.38	1.4
MSSH-CP100030	-JIS3	3.1831	30	20	75	95.49	101.86	30	50	*	*	23.48	1.9
MSSH-CP100040	-JIS3	3.1831	40	25	80	127.32	133.69	30	50	*	*	24.94	3.3
周節 15 / CP 15													
MSSH-CP150020	-JIS3	4.7746	20	25	75	95.49	105.04	50	77	*	*	52.24	2.6
MSSH-CP150025	-JIS3	4.7746	25	25	100	119.37	128.92	50	77	*	*	55.95	3.9
MSSH-CP150030	-JIS3	4.7746	30	25	110	143.24	152.79	50	77	*	*	58.70	5.5
周節 20 / CP 20													
MSSH-CP200020	-JIS3	6.3662	20	25	100	127.32	140.06	60	90	*	*	83.59	5.4
MSSH-CP200025	-JIS3	6.3662	25	30	130	159.16	171.89	60	90	*	*	89.52	8.2
MSSH-CP200030	-JIS3	6.3662	30	30	150	190.99	203.72	60	90	*	*	93.92	11.5



CSM-CP-JIS4



單位 / Dimension : mm

系列 CSM-CP-JIS4 直齒輪
品質等級 JIS 4

Series CSM-CP-JIS4 Straight Soft Pinion
Quality Grade JIS 4

材料 S50C
可根據要求提供鍵槽和螺孔

Material S50C
Keyway and screw holes are available upon request.



型號 Code	JIS	模數 Module	齒數 No. of Teeth	d1	d2	d3	D	w1	w2	k	h	F _{ta} kN	KG
周節 5 / CP 5													
CSM-CP050020	-JIS4	1.5915	20	8	25	31.83	35.01	15	30	*	*	2.27	0.2
CSM-CP050025	-JIS4	1.5915	25	10	32	39.79	42.97	15	30	*	*	2.44	0.3
CSM-CP050030	-JIS4	1.5915	30	10	38	47.74	50.93	15	30	*	*	2.59	0.4
CSM-CP050040	-JIS4	1.5915	40	12	45	63.66	66.84	15	30	*	*	2.78	0.6
周節 10 / CP 10													
CSM-CP100020	-JIS4	3.1831	20	15	50	63.66	70.03	30	50	*	*	9.10	0.9
CSM-CP100025	-JIS4	3.1831	25	20	60	79.57	85.94	30	50	*	*	9.78	1.4
CSM-CP100030	-JIS4	3.1831	30	20	75	95.49	101.86	30	50	*	*	10.39	1.9
CSM-CP100040	-JIS4	3.1831	40	20	80	127.32	133.69	30	50	*	*	11.15	3.3
周節 15 / CP 15													
CSM-CP150020	-JIS4	4.7746	20	22	75	95.49	105.04	50	77	*	*	22.77	2.6
CSM-CP150025	-JIS4	4.7746	25	25	100	119.36	128.92	50	77	*	*	24.46	3.9
CSM-CP150030	-JIS4	4.7746	30	25	110	143.24	152.79	50	77	*	*	25.98	5.5
周節 20 / CP 20													
CSM-CP200020	-JIS4	6.3662	20	25	100	127.32	140.06	60	90	*	*	36.43	5.4
CSM-CP200025	-JIS4	6.3662	25	30	130	159.15	171.89	60	90	*	*	39.14	8.2
CSM-CP200030	-JIS4	6.3662	30	30	150	190.98	203.72	60	90	*	*	41.57	11.5

滾輪目錄 Contents of Rollers



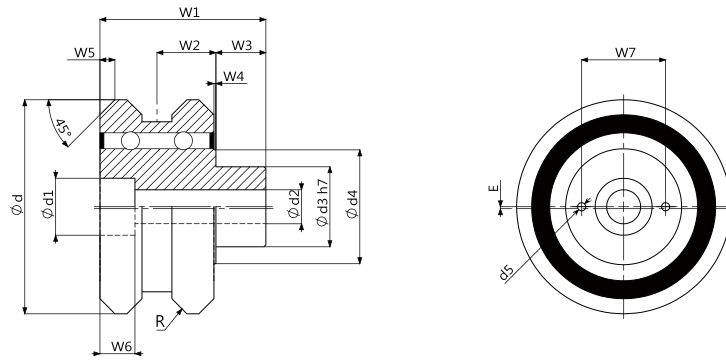
型號 Code	材料 Material	齒條型狀 Type	心軸外徑 Shaft Dia.	頁碼 Page
UV	SUJ2 (100Cr6)	導軌滾輪 V Type Roller	15 20 25 35	P.108
UR	SUJ2 (100Cr6)	平軌滾輪 Round Rolle	15 20 25 35	P.108



滾輪型號說明 Rollers Code Instrction

1st 材料 Material	2nd 型狀 Type	3th 心軸外徑 Shaft Dia.	4th 偏心量 Excenter
U= 軸承鋼	V= V 型 R= 圓型	15 20 25 35	Y=1mm N=0mm
U=SUJ2 (100Cr6)	V= V Type R=Round		Y=1mm N=0mm

UV 導軌滾輪
V Type Roller



單位 / Dimension : mm

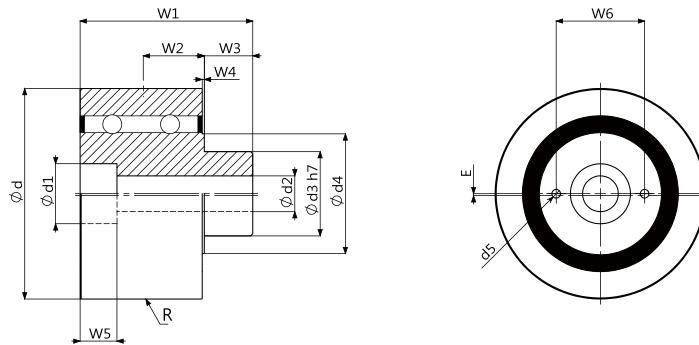
型號 Code	心軸外徑 Shaft Dia.	偏心率 Excenter	ød	ød1	W1	W5	W2	W3	W4	W6	R	ød2	ød3	ød4	W7	d5	Ca(µm)	KG
UV15Y	15	1 mm	53	13.5	35	2	12	12	1	9	R250	8.4	15h7	23.8	18.5	2.6x3	-3/+5	0.23
UV15N	15	0 mm	53	13.5	35	2	12	12	1	9	R250	8.4	15h7	23.8	18.5	2.6x3	-3/+5	0.23
UV20Y	20	1 mm	63	16.5	46	3	16	15	1	11	R300	10.5	20h7	27.7	22.5	2.6x3	-3/+5	0.45
UV20N	20	0 mm	63	16.5	46	3	16	15	1	11	R300	10.5	20h7	27.7	22.5	2.6x3	-3/+5	0.45
UV25Y	25	1 mm	77	20.5	60	3.5	20.5	20	1	13	R360	13	25h7	35.6	27.5	4.1x4.5	-3/+5	1.00
UV25N	25	0 mm	77	20.5	60	3.5	20.5	20	1	13	R360	13	25h7	35.6	27.5	4.1x4.5	-3/+5	1.00
UV35Y	35	1 mm	107	28.5	84	7.5	30	25	1	17.5	R500	17	40h7	56.9	42	4.1x4.5	-3/+5	2.50
UV35N	35	0 mm	107	28.5	84	7.5	30	25	1	17.5	R500	17	40h7	56.9	42	4.1x4.5	-3/+5	2.50

Ga (µm) 內部軸向間隙 / Internal Axial Tolerance



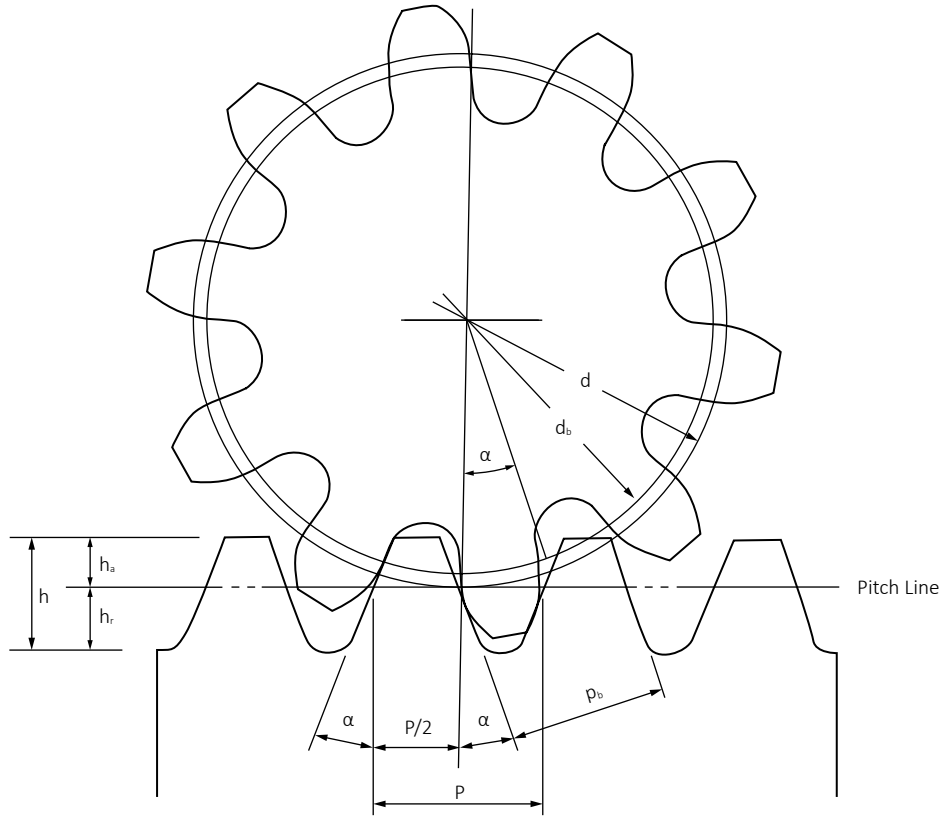
滾輪
Roller

UR 平軌滾輪
Round Roller



單位 / Dimension : mm

型號 Code	心軸外徑 Shaft Dia.	偏心率 Excenter	ød	ød1	W1	W2	W3	W4	W5	R	ød2	ød3	ød4	W6	d5	Ca(µm)	KG
UR15Y	15	1 mm	47	13.5	35	12	12	1	9	R500	8.4	15h7	23.8	18.5	2.6x3	-3/+5	0.16
UR20Y	20	1 mm	72	16.5	46	16	15	1	11	R500	10.5	20h7	27.7	22.5	2.6x3	-3/+5	0.63
UR25Y	25	1 mm	85	20.5	60	20.5	20	1	13	R500	13	25h7	35.6	27.5	4.1x4.5	-3/+5	1.00
UR35Y	35	1 mm	100	28.5	84	30	25	1	17.5	R500	17	40h7	56.9	42	4.1x4.5	-3/+5	2.70



標準直齒輪

模數	m
壓力角	$\alpha = 20^\circ$
齒冠高	$h_a = m$
齒根高	$h_f \geq 1.25m$
齒全深	$h \geq 2.25m$
有效齒深	$h_w = 2.00m$
齒頂隙	$c = 0.25m$
標準節距	$p = \pi m$
基圓節距	$p_b = p \cos \alpha$
標準圓直徑	$d = mz$
基圓直徑	$d_b = d \cos \alpha$
R角	
齒厚	

Module	m
Pressure Angle	$\alpha = 20^\circ$
Addendum	$h_a = m$
Dedendum	$h_f \geq 1.25m$
Whole Depth	$h \geq 2.25m$
Working Tooth Depth	$h_w = 2.00m$
Clearance	$c = 0.25m$
Circular Pitch	$p = \pi m$
Base Circle Pitch	$p_b = p \cos \alpha$
Standard Circle Dia	$d = mz$
Base Circle Diameter	$d_b = d \cos \alpha$
r_f = Root Radius	
S = Circular Tooth Thickness	

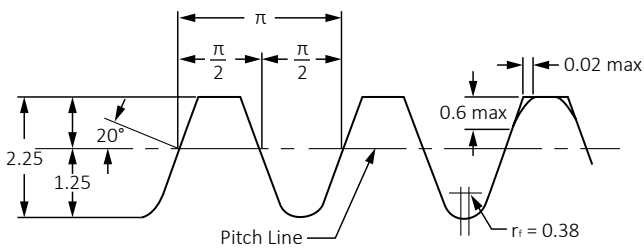


圖 1-1 ISO 53 針對基本公制齒條的模數 1 進行標準化
Fig. 1-1 The Basic Metric Rack From ISO 53 Normalized for Module 1

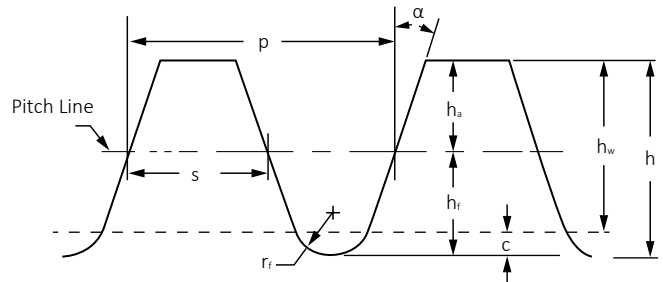


圖 1-2 基本英制徑節齒條的 DP1 進行標準化
Fig. 1-2 The Basic Inch Diametral Pitch Rack Normalized for 1 Diametral Pitch

標準正齒輪計算
Straight Gear Calculation

序號 No.	計算項目	Description	記號 Symbol	計算公式 Formula	計算例 Example	
					小齒輪 Small	大齒輪 Big
1	模數	Module	m		2.25	
2	標準壓力角	Pressure Angle	α		20	
3	齒數	No of Teeth	z		16	20
4	中心距離	Center Distance	a	$\frac{(Z_1+Z_2)m}{2}$	40.5	
5	標準圓直徑	Standard Circle Diameter	d	zm	36	45
6	基圓直徑	Base Circle Diameter	d_b	$d \cos \alpha$	33.8289	42.2862
7	齒冠高	Addendum	h_a	$1.00m$	2.25	2.25
8	全齒深	Whole Depth	h	$2.55m$	5.0625	5.0625
9	齒頂圓直徑	Addendum Circle Diameter	d_a	$d+2.5m$	40.5	49.5
10	齒底圓直徑	Diameter of Root Circle	d_f	$d-2.5m$	30.375	39.375

標準正齒輪計算
Straight Gear Calculation

序號 No.	計算項目	Description	記號 Symbol	計算公式 Formula	計算例 Example	
1	模數	Module	m		2.25	
2	中心距離	Center Distance	a		45	
3	轉速比	Speed Ratio	i		1.5	
4	齒數的和	Sum of Teeth No.	$Z_1 + Z_2$	$\frac{2a}{m}$	40	
5	齒數	Teeth No.	Z	$\frac{Z_1+Z_2}{i+1}$ $\frac{i(Z_1+Z_2)}{i+1}$	16	24

斜齒輪計算
Helical Gear Calculation

序號 No.	計算項目	Description	記號 Symbol	計算公式 Formula	計算例 Example	
					小齒輪 Small	小齒輪 Big
1	齒直角模數	Module	m_n		2.5	
2	齒直角壓力角	Pressure Angle	α_n		20°	
3	標準圓筒螺旋角	Standard Cylinder Helical Angle	β		15°	
4	齒數 (螺旋方向)	No of Teeth (Direction)	Z		15 (L)	24 (R)
5	軸直角壓力角	Axis Right Angle Pressure Angle	α_t	$\tan^{-1} \left(\frac{\tan \alpha_n}{\cos \beta} \right)$	20.6469°	
6	齒直角轉位係數	Teeth Right Angle Profile Shift Factor	X_n		0.12012	0
7	α'_t 的漸開線函數	Involute Function of a' Angle	$\text{inv } \alpha'_t$	$2 \tan \alpha_n \left(\frac{X_{n1} + X_{n2}}{Z_1 + Z_2} \right) + \text{inv } \alpha_t$	0.018695	
8	軸直角咬合壓力角	Axis Right Angle Contact of Pressure Angle	α'_t	查閱漸開線函數表 Involute Function Chart	21.511	
9	中心距離修正係數	Center Distance Correction Factor	y	$\frac{Z_1 + Z_2}{2 \cos \beta} \left(\frac{\cos \alpha_t}{\cos \alpha'_t} - 1 \right)$	0.084598	
10	中心距離	Center Distance	a	$\left(\frac{Z_1 + Z_2}{2 \cos \beta} + y \right) m_n$	50.764	
11	標準圓直徑	Standard Circle Diameter	d	$\frac{Z m_n}{\cos \beta}$	38.822	62.117
12	基圓直徑	Base Circle Diameter	d_b	$d \cos \alpha_t$	36.329	58.127
13	咬合標準圓直徑	Contact Standard Circle Diameter	d'	$\frac{d_b}{\cos \alpha'_t}$	39.049	62.478
14	齒冠高	Addendum	h_{α_1} h_{α_2}	$(1 + X_1) m_n$ $(1 + X_2) m_n$	5.895	5.625
15	全齒深	Whole Depth	h	$2.25 m_n$	6.748	
16	齒頂圓直徑	Addendum Circle Diameter	d_a	$d + 2h_a$	44.423	67.116
17	齒底圓直徑	Diameter of Root Circle	d_f	$d_a - 2h$	33.173	55.867

斜齒輪計算
Helical Gear Calculation

序號 No.	計算項目	Description	記號 Symbol	計算公式 Formula	計算例 Example	
1	中心距離	Center Distance	a		125	
2	中心距離修正係數	Center Distance Correction Factor	y	$\frac{a}{m_n} - \frac{Z_1 + Z_2}{2 \cos \beta}$	0.097447	
3	軸直角咬合壓力角	Axis Right Angle Contact of Pressure Angle	α'_t	$\cos^{-1} \left(\frac{2 \cos \alpha_n}{\frac{Z_1 + Z_2}{2 \cos \beta} + 1} \right)$	23.1126°	
4	轉位係數和	Sum of Profile Shift Factor	$X_{n1} + X_{n2}$	$\frac{(Z_1 + Z_2)(\text{inv } \alpha'_t - \text{inv } \alpha_t)}{2 \tan \alpha_n}$	0.09809	
5	齒直角轉位係數	Teeth Right Angle Profile Shift Factor	X_n		0.09809	0

負荷係數

Overload Factor Ka

輸入機器 Impact from Prime Mover	輸出機器 Impact From Load Side Machine		
	均力 Uniform Load	中度衝擊 Mediem Impact t Load	劇烈衝擊 Heavy Impact Load
均勻負載 (馬達、渦輪機、油壓馬達) Uniform Load (Motor, Turbine, hydraulic Motor)	1	1.25	1.75
輕度衝擊 (多缸引擎) Light Impact Load (Multicylinder Engine)	1.25	1.5	2
中衝擊 (單缸引擎) Medium Impact Load (Single Cyliner Engine)	1.5	1.75	2.25

負荷係數用於修正機械動力輸出所造成的衝擊，對於齒部應力的影響參考值。

The overload factor is used to correct the impact caused by the mechanical power output and the reference value for the influence of the tooth stress.

壽命係數

Life Factor KL

重複循環次數 Number of Cyclic Repetitions	硬度 Hardness HRC		
	≤ 20°	≥ 20°	≥ 45°
Under 10,000	1.4	1.5	1.5
Approx. 10 ⁵	1.2	1.4	1.5
Approx. 10 ⁶	1.1	1.1	1.1
Approx. 10 ⁷	1.0	1.0	1.0

標準直齒齒輪徑向咬合率

Radial Contact Ratio of Standard Spur Gear

	12	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	110	120	
12	1.420																					
15	1.451	1.481																				
20	1.489	1.519	1.557																			
25	1.516	1.547	1.584	1.612																		
30	1.537	1.567	1.605	1.633	1.654																	
35	1.553	1.584	1.622	1.649	1.670	1.687																
40	1.567	1.597	1.635	1.663	1.684	1.700	1.714															
45	1.578	1.609	1.646	1.674	1.695	1.711	1.725	1.736														
50	1.588	1.618	1.656	1.683	1.704	1.721	1.734	1.745	1.755													
55	1.596	1.626	1.664	1.691	1.712	1.729	1.742	1.753	1.763	1.771												
60	1.603	1.633	1.671	1.698	1.719	1.736	1.749	1.760	1.770	1.778	1.785											
65	1.609	1.639	1.677	1.704	1.725	1.742	1.755	1.766	1.776	1.784	1.791	1.797										
70	1.614	1.645	1.682	1.710	1.731	1.747	1.761	1.772	1.781	1.789	1.796	1.802	1.808									
75	1.619	1.649	1.687	1.714	1.735	1.752	1.765	1.777	1.786	1.794	1.801	1.807	1.812	1.817								
80	1.623	1.654	1.691	1.719	1.740	1.756	1.770	1.781	1.790	1.798	1.805	1.811	1.817	1.821	1.826							
85	1.627	1.657	1.695	1.723	1.743	1.760	1.773	1.785	1.794	1.802	1.809	1.815	1.821	1.825	1.830	1.833						
90	1.630	1.661	1.699	1.726	1.747	1.764	1.777	1.788	1.798	1.806	1.813	1.819	1.824	1.829	1.833	1.837	1.840					
95	1.634	1.664	1.702	1.729	1.750	1.767	1.780	1.791	1.801	1.809	1.816	1.822	1.827	1.832	1.836	1.840	1.844	1.847				
100	1.636	1.667	1.705	1.732	1.753	1.770	1.783	1.794	1.804	1.812	1.819	1.825	1.830	1.835	1.840	1.844	1.848	1.852	1.855	1.858	1.863	
110	1.642	1.672	1.710	1.737	1.758	1.775	1.788	1.799	1.809	1.817	1.824	1.830	1.835	1.840	1.844	1.848	1.852	1.856	1.859	1.862	1.867	1.871
120	1.646	1.676	1.714	1.742	1.762	1.779	1.792	1.804	1.813	1.821	1.828	1.834	1.840	1.844	1.849	1.852	1.856	1.859	1.862	1.867	1.871	
RACK	1.701	1.731	1.769	1.797	1.817	1.834	1.847	1.859	1.868	1.876	1.883	1.889	1.894	1.899	1.903	1.907	1.911	1.914	1.917	1.922	1.926	

ISO Table 17-1

(α = 20°)

齒輪與齒條的強度計算公式

齒輪和齒條的強度通常用彎曲強度和表面耐久性來說明。兩者在應用上都很重要。特別是，當應用環境嚴格時，每個參數都需要進一步討論。

以下公式基於 JGMA (日本齒輪製造商協會) 的標準。以下規格僅供參考。

JGMA 401-01 直齒與斜齒彎曲強度計算公式
JGMA 402-01 直齒與斜齒表面耐久性計算公式

彎曲強度和耐久性規格通常用於製造業中的直齒和斜齒 (包括齒條和齒輪)，範圍如下：

模數： m 1.5 to 25 mm
節圓直徑： d 25 to 3200 mm
切向速度： v ≤ 25 m/秒
迴轉速度： n ≤ 3600 rpm

轉換公式：功率、扭矩和力
齒輪強度和耐用性與功率和力的傳輸有關。切向力的計算基於節圓、 F_t (kgf)、功率 P (kw) 和扭矩 T (kgf•m)。

參考公式如下：

$$F_t = \frac{102P}{V} = \frac{19.5 \times 10^6 P}{d_w n} = \frac{2000T}{d_w}$$

$$P = \frac{F_t}{102} = \frac{10^{-6}}{1.95} F_t d_w n$$

$$T = \frac{F_t d_w}{2000} = \frac{947P}{n}$$

其中，咬合節圓直徑的水平切向速度

$$V = \frac{d_w n}{19100} \text{ (m/sec)}$$

dw: 咬合的節圓直徑 (mm)
n: 迴轉速度 (rpm)

產品選用計算：

1. 上述切向力 F_t 的計算方法，可依據不同輸入條件計算出 F_t 值的大小；
2. 型錄中各項產品提供最大允許切向力 F_{ta} 給使用者作設計上的比對；
3. 使用 F_{ta} 時，依據使用條件不同，需配合目錄上所提供的負荷係數 K_a 和壽命係數 K_L 進行修正；

$$F'_{ta} = \frac{F_{ta}}{K_a \times K_L}$$

4. F_t 值須小於 F'_{ta} ；
5. 留意產品型錄上的 F_{ta} 單位為 kN，而切向力 F_t 的計算單位為 kgf，比對時須進行單位轉換。

備註：

- 1 公斤力 = 9.807 牛頓 = 0.0098 千牛頓
- 1 千牛頓 = 101.972 公斤力

Strength and Durability of Gears

The strength of gears is commonly illustrated with bending strength and surface durability. Both are important on application. In particularly, when applications are severe, each parameter requires further discussion.

The following formulas are based on standards of JGMA (Japanese Gear Manufacturer Association). The specifications below are for reference only.

JGMA 401-01 Bending Strength Formula of Spur Gears and Helical Gears
JGMA 402-01 Surface Durability Formula of Spur Gears and Helical Gears

Bending strength and durability specifications are usually used with straight and helical gears (including racks and pinions) in manufacturing industry within the ranges below:

Module: m 1.5 to 25 mm
Pitch Diameter: d 25 to 3200 mm
Tangential Speed: v ≤ 25 m/sec
Rotating Speed: n ≤ 3600 rpm

Conversion Formulas: Power, Torque and Force
Gear strength and durability relate to the power and forces to be transmitted. The calculation of tangential force are based on pitch circle, F_t (kgf), power, P (kw), and torque, T (kgf•m).

Formula Below:

$$F_t = \frac{102P}{V} = \frac{19.5 \times 10^6 P}{d_w n} = \frac{2000T}{d_w}$$

$$P = \frac{F_t}{102} = \frac{10^{-6}}{1.95} F_t d_w n$$

$$T = \frac{F_t d_w}{2000} = \frac{947P}{n}$$

Where v: Tangential Speed of Working Pitch Circle

$$V = \frac{d_w n}{19100} \text{ (m/sec)}$$

dw: Working Pitch Diameter (mm)
n: Rotating Speed (rpm)

Product Selection Calculation:

1. The calculation method of the above tangential force F_t can be calculated according to different input conditions;
2. Each item in the catalogue provides the maximum allowable tangential force F_{ta} for the design comparison for users;
3. When using F_{ta} , depending on the conditions of use, it is necessary to correct the load factor K_a and the life factor K_L provided in the catalog;

$$F'_{ta} = \frac{F_{ta}}{K_a \times K_L}$$

4. F_t value must be less than F'_{ta}
5. Note that the F_{ta} unit on the product catalog is kN, and the tangential force F_t is calculated in kgf, and the unit conversion is required when comparing.

Remark:

- 1kgf= 9.807 N= 0.0098 kN
- 1kN= 101.972 kgf

硬度對照表

Steel Hardness Conversion Chart

布氏 Brinell HB	洛氏 Rockwell HRC	洛氏 Rockwell HRB	維氏 Vickers HV
760	70		
752	69		
745	68		
746	67		
735	66		
711	65		
695	64		
681	63		
658	62		
642	61		
627	60		
613	59		
601	58	746	
592	57	727	
572	56	694	
552	55	649	
534	54	120	589
513	53	119	567
504	52	118	549
486	51	118	531
469	50	117	505
468	49	117	497
456	48	116	490
445	47	115	474
430	46	115	458
419	45	114	448
415	44	114	438
402	43	114	424
388	42	113	406
375	41	112	393
373	40	111	388
360	39	111	376
348	38	110	361
341	37	109	351
331	36	109	342
322	35	108	332
314	34	108	320
308	33	107	311
300	32	107	303
290	31	106	292
277	30	105	285
271	29	104	277
264	28	103	271
262	27	103	262
255	26	102	258
250	25	101	255
245	24	100	252
240	23	100	247
233	22	99	241
229	21	98	235
223	20	97	227
216	19	96	222
212	18	95	218
208	17	95	210

硬度對照表

Steel Hardness Conversion Chart

布氏 Brinell HB	洛氏 Rockwell HRC	洛氏 Rockwell HRB	維氏 Vickers HV
199	15	93	199
191	14	92	197
190	13	92	186
186	12	91	184
183	11	90	183
180	10	89	180
175	9	88	178
170	7	87	175
167	6	86	172
166	5	86	168
163	4	85	162
160	3	84	160
156	2	83	158
154	1	82	152

由於各家材料與檢測儀器不同，所有數值僅供參考。
 Since all materials and testing instruments are different, all values are for reference only.

齒距和模數轉換表

Conversion Table for Gear Pitch and Module

Conversion Table 1				Conversion Table 2				Conversion Table 3			
Diametral Pitch	Circular Pitch (CP)		Module	Diametral Pitch	Circular Pitch (CP)		Module	Diametral Pitch	Circular Pitch (CP)		Module
DP	in	mm	M	DP	in	mm	M	DP	in	mm	M
1	3.1416	79.796	25.4000	3	1.0472	26.599	8.4667	10.6395	0.2953	7.5000	2.3873
1.0053	3.1250	79.375	25.2658	3.0691	1.0236	26.000	8.2761	11.0000	0.2856	7.2540	2.3091
1.0160	3.0921	78.540	25	3.1416	1.0000	25.400	8.0851	11.2889	0.2783	7.0690	2.2500
1.0472	3.0000	76.200	24.2552	3.1750	0.9895	25.133	8	11.3995	0.2756	7.0000	2.2282
1.0583	2.9684	75.398	24.0000	3.1919	0.9843	25.000	7.9577	12	0.2618	6.6500	2.1167
1.0640	2.9528	75.000	23.8732	3.2500	0.9666	24.553	7.8154	12.2764	0.2559	6.5000	2.0690
1.0927	2.8750	73.025	23.2446	3.3249	0.9449	24.000	7.6394	12.5664	0.2500	6.3500	2.0213
1.1399	2.7559	70.000	22.2817	3.3510	0.9375	23.813	7.5798	12.7000	0.2474	6.2830	2
1.1424	2.7500	69.850	22.2339	3.5000	0.8976	22.799	7.2571	13.0000	0.2417	6.1380	1.9538
1.1545	2.7211	69.115	22.0000	3.5904	0.8750	22.225	7.0744	13.2994	0.2362	6.0000	1.9099
1.1968	2.6250	66.675	21.2233	3.6271	0.8661	22.000	7.0028	14.0000	0.2244	5.7000	1.8143
1.2276	2.5591	65.000	20.6901	3.6286	0.8658	21.991	7.0000	14.5084	0.2165	5.5000	1.7507
1.2500	2.5133	63.837	20.3200	3.7500	0.8378	21.279	6.7733	14.5143	0.2164	5.4980	1.7500
1.2566	2.5000	63.500	20.2127	3.8666	0.8125	20.638	6.5691	15.0000	0.2094	5.3200	1.6933
1.2700	2.4737	62.832	20	3.9898	0.7874	20.000	6.3662	15.9593	0.1969	5.0000	1.5915
1.3228	2.3750	60.325	19.2020	4	0.7854	19.949	6.3500	16	0.1963	4.9870	1.5875
1.3299	2.3622	60.000	19.0986	4.1888	0.7500	19.050	6.0638	16.7552	0.1875	4.7630	1.5160
1.3963	2.2500	57.150	18.1914	4.1998	0.7480	19.000	6.0479	16.9333	0.1855	4.7120	1.5
1.4111	2.2263	56.549	18.0000	4.2333	0.7421	18.850	6	17.7325	0.1772	4.5000	1.4324
1.4508	2.1654	55.000	17.5070	4.4331	0.7087	18.000	5.7296	18.0000	0.1745	4.4330	1.4111
1.4784	2.1250	53.975	17.1808	4.5000	0.6981	17.733	5.6444	19.9491	0.1575	4.0000	1.2732
1.5	2.0944	53.198	16.9333	4.5696	0.6875	17.463	5.5585	20	0.1571	3.9900	1.2700
1.5708	2.0000	50.800	16.1701	4.6182	0.6803	17.279	5.5000	20.3200	0.1546	3.9270	1.25
1.5875	1.9790	50.265	16	4.6939	0.6693	17.000	5.4113	22.7990	0.1378	3.5000	1.1141
1.5959	1.9685	50.000	15.9155	4.9873	0.6299	16.000	5.0930	24	0.1309	3.3250	1.0583
1.6755	1.8750	47.625	15.1595	5	0.6283	15.959	5.0800	25.0000	0.1257	3.1920	1.0160
1.6933	1.8553	47.124	15.0000	5.0265	0.6250	15.875	5.0532	25.1327	0.1250	3.1750	1.0106
1.7500	1.7952	45.598	14.5143	5.0800	0.6184	15.708	5	25.4000	0.1237	3.1420	1
1.7733	1.7717	45.000	14.3239	5.3198	0.5906	15.000	4.7746	26.5988	0.1181	3.0000	0.9549
1.7952	1.7500	44.450	14.1489	5.5000	0.5712	14.508	4.6182	28.0000	0.1122	2.8500	0.9071
1.8143	1.7316	43.982	14.0000	5.5851	0.5625	14.288	4.5479	30.0000	0.1047	2.6600	0.8467
1.9333	1.6250	41.275	13.1382	5.6444	0.5566	14.137	4.5000	31.4159	0.1000	2.5400	0.8085
1.9538	1.6079	40.841	13.0000	5.6997	0.5512	14.000	4.4563	31.7500	0.0989	2.5130	0.8
1.9949	1.5748	40.000	12.7324	6	0.5236	13.299	4.2333	31.9186	0.0984	2.5000	0.7958
2	1.5708	39.898	12.7000	6.1382	0.5118	13.000	4.1380	32	0.0982	2.4940	0.7938
2.0944	1.5000	38.100	12.1276	6.2832	0.5000	12.700	4.0425	33.8667	0.0928	2.3560	0.7500
2.0999	1.4961	38.000	12.0958	6.3500	0.4947	12.566	4	36.0000	0.0873	2.2170	0.7056
2.1167	1.4842	37.699	12	6.5000	0.4833	12.276	3.9077	36.2857	0.0866	2.1990	0.7
2.1855	1.4375	36.513	11.6223	6.6497	0.4724	12.000	3.8197	38.0000	0.0827	2.1000	0.6684
2.2166	1.4173	36.000	11.4592	7.0000	0.4488	11.399	3.6286	39.8982	0.0787	2.0000	0.6366
2.2500	1.3963	35.465	11.2889	7.1808	0.4375	11.113	3.5372	40.0000	0.0785	1.9950	0.6350
2.2848	1.3750	34.925	11.1170	7.2542	0.4331	11.000	3.5014	42.3333	0.0742	1.8850	0.6
2.3091	1.3605	34.558	11.0000	7.2571	0.4329	10.996	3.5000	48	0.0654	1.6620	0.5292
2.3470	1.3386	34.000	10.8225	7.9796	0.3937	10.000	3.1831	50.0000	0.0628	1.5960	0.5080
2.3936	1.3125	33.338	10.6117	8	0.3927	9.975	3.1750	50.2655	0.0625	1.5880	0.5053
2.4936	1.2598	32.000	10.1859	8.3776	0.3750	9.525	3.0319	50.8000	0.0618	1.5710	0.5
2.5	1.2566	31.919	10.1600	8.3996	0.3740	9.500	3.0239	53.1976	0.0591	1.5000	0.4775
2.5133	1.2500	31.750	10.1063	8.4667	0.3711	9.425	3	63.5000	0.0495	1.2570	0.4
2.5400	1.2368	31.416	10	8.8663	0.3543	9.000	2.8648	64	0.0491	1.2470	0.3969
2.6456	1.1875	30.163	9.6010	9.0000	0.3491	8.866	2.8222	72	0.0436	1.1080	0.3528
2.6599	1.1811	30.000	9.5493	9.2364	0.3401	8.639	2.7500	79.7965	0.0394	1.0000	0.3183
2.7500	1.1424	29.017	9.2364	9.3878	0.3346	8.500	2.7056	80	0.0393	0.9970	0.3175
2.7925	1.1250	28.575	9.0957	9.9746	0.3150	8.000	2.5465	84.6667	0.0371	0.9420	0.3
2.8222	1.1132	28.274	9.0000	10	0.3142	7.980	2.5400	96	0.0327	0.8310	0.2646
2.8499	1.1024	28.000	8.9127	10.0531	0.3125	7.938	2.5266	120	0.0262	0.6650	0.2117
2.9568	1.0625	26.988	8.5904	10.1600	0.3092	7.854	2.5	127.0000	0.0247	0.6280	0.2

斜齒齒規安裝規格表

Helical Rack Gauge for Assembling

模數 Module	型號 Code	規格 Dimension	角度 Angle	適用齒條系列 Rack Code Matched
	斜齒齒規左斜 / Helical Gauge Left Hand			
M1	MHTGQ010-JIS-Gauge	8*A15*199.42L*M1	21°30'	MHTGQ010-JIS1
M1.5	CHTGH015-Gauge	17*17*200L*M1.5	19°31'42"	CHTGH015-DIN5 CHTGH015-DIN6 MHTG015-DIN6
	MHTGQ015-JIS-Gauge	12*A20*197.34L*M1.5	21°30'	MHTGQ015-JIS1
M2	CHTM015-Gauge	17*17*200L*M1.5	19°31'42"	CHTM015-DIN8 CHTMQ015-DIN8 CHTMH015-DIN10
	CHTGH020-Gauge	24*24*200L*M2	19°31'42"	CHTGH020-DIN5 CHTGH020-DIN6 MHTG020-DIN6
	MHTGQ020-JIS-Gauge	16*A25*195.75L*M2	21°30'	MHTGQ02010-JIS1
	CHTM020-Gauge	24*24*200L*M2	19°31'42"	CHTM020-DIN8 CHTMQ020-DIN8 CHTMH020-DIN10
M2.5	CHTM020-JIS-Gauge	25*25*195L*M2	15°	CHTM020-JIS4
	CHTGH025-Gauge	24*24*200L*M2	19°31'42"	CHTGH025-DIN5 CHTGH025-DIN6 MHTG025-DIN6
M3	MHTGQ025-JIS-Gauge	20*A30*194.12L*M2.5	21°30'	MHTGQ025-JIS1
	CHTGH030-Gauge	29*29*200L*M3	19°31'42"	CHTGH030-DIN5 CHTGH030-DIN6 MHTG030-DIN6
M4	MHTGQ030-JIS-Gauge	25*A35*192.47L*M3	21°30'	MHTGQ030-JIS1
	CHTM030-Gauge	30*A29*200L*M3	19°31'42"	CHTM030-DIN8 CHTMQ030-DIN8 CHTMH030-DIN10
	CHTM030-JIS-Gauge	35*35*195.2L*M3	15°	CHTM030-JIS4
M5	CHTGH040-Gauge	39*39*200L*M4	19°31'42"	CHTGH040-DIN5 CHTGH040-DIN6 MHTG040-DIN6
	CHTM040-Gauge	40*A39*200L*M4	19°31'42"	CHTM040-DIN8 CHTMQ040-DIN8 CHTMH040-DIN10
M6	CHTGH050-Gauge	49*A39*200L*M5	19°31'42"	CHTGH050-DIN5 CHTGH050-DIN6 MHTG050-DIN6
	CHTM050-Gauge	49*A39*200L*M5	19°31'42"	CHTM050-DIN8 CHTMQ050-DIN8 CHTMH050-DIN10
M8	CHTGH060-Gauge	59*A49*200L*M6	19°31'42"	CHTGH060-DIN5 CHTGH060-DIN6 MHTG060-DIN6
	CHTM060-Gauge	59*A49*200L*M6	19°31'42"	CHTM060-DIN8 CHTMQ060-DIN8 CHTMH060-DIN10
M10	CHTGH080-Gauge	79*79*186.66L*M8	19°31'42"	CHTGH080-DIN5 CHTGH080-DIN6 MHTG080-DIN6
	CHTM080-Gauge	79*79*186.66L*M8	19°31'42"	CHTM080-DIN8 CHTMQ080-DIN8 CHTMH080-DIN10
M10	CHTGH100-Gauge	99*99*200L*M10	19°31'42"	CHTGH100-DIN6
	CHTM100-Gauge	99*99*200L*M10	19°31'42"	CHTM100-DIN8 CHTMQ100-DIN8 CHTMH100-DIN10

JIS 系列以灰底做區隔，以便讀取。
JIS Series noted in gray for easy identification.

直齒齒規安裝規格表
Straight Rack Gauge for Assembling

模數 /Module	型號 Code	規格 Dimension	適用齒條系列 Rack Code Matched
周節 /CP	直齒齒規 / Straight Gauge		
M1	CSTGH010-JIS2-Gauge	10*A12*197.92L*M1	CSTGH010-JIS2
M1.5	CSTGH015-Gauge	17*17*197.92L*M1.5	CSTGH015-DIN 6
	CSTGH015-JIS2-Gauge	15*A20*197.92L*M1.5	CSTGH015-JIS2
	CSTM015-Gauge	17*17*197.92L*M1.5	CSTM015-DIN8 CSTMQ015-DIN8 CSTMH015-DIN10
	CSTM015-JIS4-Gauge	15*A20*197.92L*M1.5	CSTM015-JIS4 CSTMH015-JIS5
M2	CSTGH020-Gauge	24*24*194.78L*M2	CSTGH020-DIN5 CSTGH020-DIN6
	CSTGH020-JIS2-Gauge	20*A25*194.78L*M2	CSTGH020-JIS2
	CSTM020-Gauge	25*A24*194.78L*M2	CSTM020-DIN8 CSTMQ020-DIN8 CSTMH020-DIN10
	CSTM020-JIS4-Gauge	20*A25*194.78L*M2	CSTM020-JIS4 CSTMH020-JIS5
M2.5	CSTGH025-Gauge	25*24*196.35L*M2.5	CSTGH025-DIN6
	CSTGH025-JIS2-Gauge	25*A30*196.35L*M2.5	CSTGH025-JIS2
	CSTM025-JIS4-Gauge	25*A30*196.35L*M2.5	CSTM025-JIS4 CSTMH025-JIS5
M3	CSTGH030-Gauge	29*29*197.92L*M3	CSTGH030-DIN5 CSTGH-030-DIN6
	CSTGH030-JIS3-Gauge	30*A35*197.92L*M3	CSTGH030-JIS2
	CSTM030-JIS4-Gauge	30*A35*197.92L*M3	CSTM030-JIS4 CSTMH030-JIS5
M4	CSTGH040-Gauge	39*39*188.49L*M4	CSTGH040-DIN5 CSTGH040-DIN6
	CSTGH040-JIS2-Gauge	40*A45*188.49L*M4	CSTGH040-JIS2
	CSTM040-Gauge	40*A39*188.49L*M4	CSTM040-DIN8 CSTMQ040-DIN8 CSTMH040-DIN10
	CSTM040-JIS4-Gauge	40*A45*188.49L*M4	CSTM040-JIS4 CSTMH040-JIS5
M5	CSTGH050-Gauge	49*A39*188.49L*M5	CSTGH050-DIN5 CSTGH060-DIN6
	CSTGH050-JIS2-Gauge	50*A50*188.49L*M4	CSTGH050-JIS2
	CSTM050-Gauge	49*A39*188.49L*M5	CSTM050-DIN8 CSTMQ050-DIN8 CSTMH050-DIN10
	CSTM050-JIS4-Gauge	50*A50*188.49L*M4	CSTM050-JIS4 CSTMH040-JIS5
M6	CSTGH060-Gauge	59*A49*188.49L*M6	CSTGH060-DIN6
	CSTGH060-JIS-Gauge	60*A60*188.49L*M4	CSTGH060-JIS2
	CSTM060-Gauge	59*A49*188.49L*M6	CSTM060-DIN8 CSTMQ060-DIN8 CSTMH060-DIN10
	CSTM060-JIS4-Gauge	60*A60*188.49L*M4	CSTM060-JIS4 CSTMH060-JIS5

直齒齒規安裝規格表
Straight Rack Gauge for Assembling

模數 /Module	型號 Code	規格 Dimension	適用齒條系列 Rack Code Matched
周節 /CP	直齒齒規 / Straight Gauge		
M8	CSTGH080-Gauge	79*79*175.92L*M8	CSTGH080-DIN6
	CSTM080-Gauge	79*79*175.92L*M8	CSTM080-DIN8 CSTMQ080-DIN8 CSTMH080-DIN10
M10	CSTM100-Gauge	99*99*188.496L*M10	CSTM100-DIN8 CSTMQ100-DIN8 CSTMH100-DIN10
CP5	MSTGQ-CP050-GAUGE	15*20*200L*CP5	MSTGQ-CP050-JIS1 MSTGH-CP050-JIS1
	CSTM-CP050-GAUGE	15*20*200L*CP5	CSTM-CP050-JIS4
CP10	MSTGQ-CP100-GAUGE	30*35*200L*CP10	MSTGQ-CP100-JIS1 MSTGH-CP100-JIS1
	CSTM-CP100-GAUGE	30*35*200L*CP10	CSTM-CO100-JIS4
CP15	CSTM-CP150-GAUGE	50*50*195L*CP15	CSTM-CP150-JIS4
CP20	CSTM-CP200-GAUGE	60*60*200L*CP20	CSTM-CP200-JIS4

JIS 系列以灰底做區隔，以便讀取。
JIS Series noted in gray for easy identification.

前言

本裝配說明指南適用於齒條的運輸、儲存、裝配、及保養，在所有相關專業人員從事並進行上述動作時，請先仔細並確實詳讀本說明書內容，若相關專業人員未仔細詳讀或不按相關操作規範進行齒條的運輸、儲存、裝配及保養而產生任何財產損失及人員受傷，本公司不負責任何賠償。

齒條安裝說明大綱

(一) 運輸

運輸過程勿不正確堆疊、大力摔放或不正常的吊掛造成齒條扭變或損傷。

(二) 儲存

齒條應儲存於乾燥環境中，且溫度應於 25°C，相對濕度 60% 最為適宜。並確實檢查齒條的包裝需完整，放置時應保持水平放置，避免傾斜、側放或直立放置。

(三) 裝配

齒條裝配請由經過合格訓練之專業人員來操作裝配，並確實準備相關裝配所需使用的器具。

(四) 保養事項

請依造齒輪齒條運行的方式來制定保養計畫。

※ 若有任何問題，請與我司聯繫。

齒條安裝操作說明

(一) 運輸

齒條於出廠時均經過整直，防鏽以及良好的包裝，使用熱縮膜來隔離空氣並保護齒條以避免碰撞。

本公司出產的齒條如果長度超過 1 米 (100cm) 或重量超過 10 公斤時，應由兩位或兩位以上的操作員協同搬運，可避免碰撞或不慎掉落。

若同時需搬運多支數量之齒條，請使用吊掛棧板，以避免工件滑落；並於吊掛工件時，隨時注意周邊環境避免工件掉落，或是碰撞周邊物品，而砸傷人員。

(二) 儲存

齒條應儲存於溫度適宜並且乾燥的環境中，溫度 25°C、相對濕度 60% 最為適宜，齒條要進行倉庫存放前，應確實檢查齒條外部包裝的完整性。

由於齒條出廠前均經過良好的防鏽處理，在齒條上均塗抹防鏽油，並經過熱縮膜的包裝，以隔絕空氣接觸，並防止碰撞；在儲存齒條的過程中，應避免傾斜或是直立的放置齒條。

放置齒條的場所，需維持適宜的溫度及濕度的穩定，並且放置時應保持場所的穩定避免震動。另外齒條平放時需避免任何不正常的堆疊，或是壓迫在齒條的上方，以避免齒條因外力壓迫而變形。

The instruction of installation is adapted for transportation, storage, assembly and maintenance of racks. All the relevant professionals should study carefully the content of the instruction before doing the actions as above. If any professionals don't study thoroughly nor follow up the regulations to do the actions of transportation, storage, assembly and maintenance of racks, any property damage or personal injury, we are irresponsible for any compensations.

OUTLINE OF RACK INSTALLATION INSTRUCTIONS

1. TRANSPORTATION

During transportation process, please do not stack incorrectly, vigorously put or hang racks to make it twisted or damaged.

2. STORAGE

Racks should be stored in dry environment with temperature 25 °C, and relative humidity should be 60% which is the best. To check the rack package should be completed and stored horizontally to avoid being sloping, leaning on one side or upright side.

3. ASSEMBLY

Rack assembly should be operated by well-trained and qualified professionals. Meanwhile, please prepare all the relevant tools accurately while assembling.

4. MAINTENANCES

Please set up maintenance plans based on the running methods of rack and pinions.

**If there are any questions, please kindly contact us.*

RACK INSTALLATION INSTRUCTIONS

1. TRANSPORTATION

All racks are straightened before delivering, and packed by thermal shrinkage film to isolate the air and to protect racks from collision.

If the rack length is over 1,000mm (100cm) or 10 kgs, it should be carried by 2 or more people to avoid collision or dropping.

If carrying plenty of racks, it should be hanged on a pallet to avoid racks dropping. During hanging, please pay attention to the surroundings to avoid dropping or colliding with somethings to injure people.

2. STORAGE

Racks should be stored in a suitable temperate and dry environment. The room temperature should be 25°C, and relative humidity should be 60% which is the best.

Before storage, the rack outside package should be inspected if completed.

Before delivering, all the racks are smeared anti-rust lubricant and packed by thermal shrinkage film to isolate air and prevent from collision. During the rack storage process, it should not be sloping, leaning on one side or upright side.

The rack storage place should be maintained in a suitable and stable temperature and humidity. Meanwhile, the place should be stable to avoid vibration.

Racks should be put on horizontally; prevent from any abnormally stacking, or oppress on the top of racks. So, the racks will not be twisted due to outside oppression.

To check the rack package should be completed and stored horizontally to avoid being sloping, leaning on one side or upright side.

(三) 裝配

3.1. 裝配操作前·檢查與準備

- 3.1.1 安裝齒條前請先確實檢查齒條外包裝的完整性，並在拆封齒條包裝時，請小心拆封，以避免齒條損傷。
- 3.1.2 安裝齒條前請先確認齒條的規格，並詳細檢查安裝時所需的安裝器具。

3. ASSEMBLY

3.1 Before assembly, check and prepare.

- 3.1.1 Before assembling racks, please do check the rack outside package and open the cartons carefully in case racks are damaged accidentally.
- 3.1.2. Before assembling racks, please check racks' specifications and all the necessary assembly tools carefully.

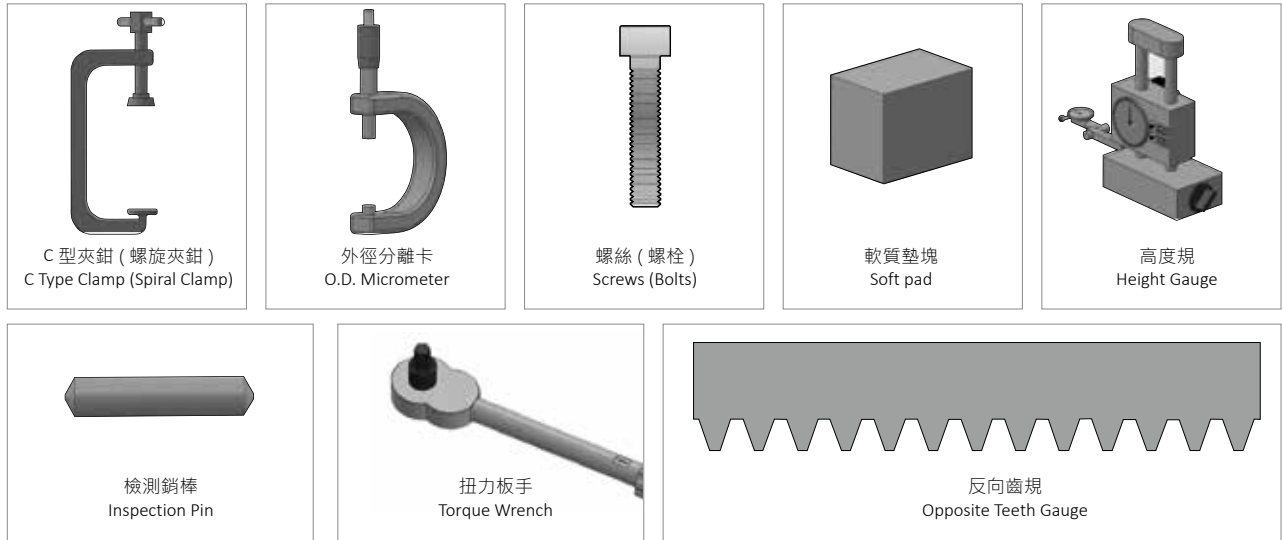


圖 1 / Fig.1

- 3.1.3 安裝齒條前，須確保基座安裝承靠面的垂直度及平行度需在要求內，一般要求平行度為 $\leq 0.02\text{mm}$ ，垂直度為 $\leq 0.02\text{mm}$ ，如圖 2. 所示。

- 3.1.3 Before assembling, please assure the verticality and parallel of bearing surface of installation basement should be within the tolerance. The verticality is $\leq 0.02\text{mm}$ and parallel is $\leq 0.02\text{mm}$ as the Fig. 2 below.

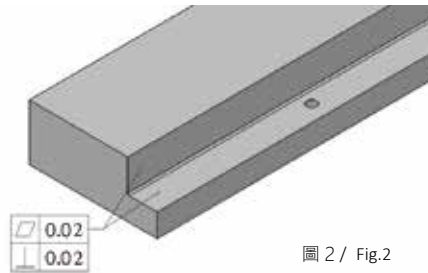


圖 2 / Fig.2

- 3.1.4 確實檢查齒條及基座安裝的承靠面的清潔及完整性，避免齒條及基座的接觸面有任何損傷或有殘餘毛屑。
- 3.1.5 安裝承靠面底部的倒角面，需注意干涉問題如圖 3. 箭頭所示。

- 3.1.4 Please do check the bearing surface of rack and installation base clean and complete to avoid any damage or chippings.
- 3.1.5 The chamfering surface of installation bearing surface bottom have to be aware of the question as Fig 3 noted.



齒條倒角尺寸須符合本公司要求的規範 (請參考表 1)
基座安裝承靠面的倒角量建議值最大不得超過 0.3mm。

注意



Attention

The rack chamfer angle should be apply with our standards (as chart 1).
The recommended chamfer value of bearing surface of installation base should not exceed 0.3 mm at maximum.

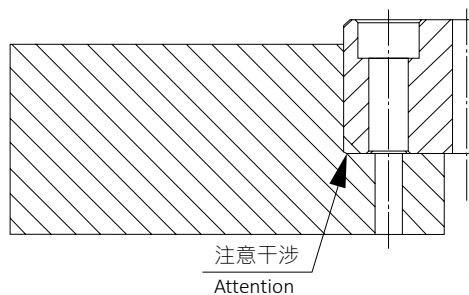
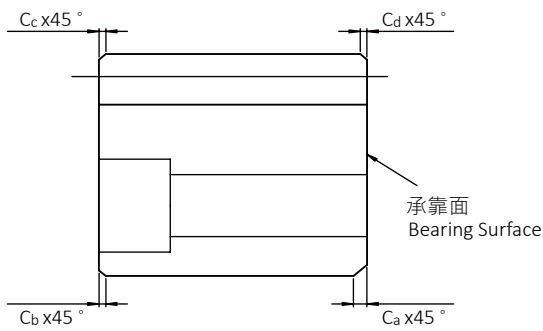


圖 3 / Fig.3

單位 / Unit : mm



Rack	Ca	Cb	Cc	Cd
M1	1.5mm	0.5mm	0.5mm	0.5mm
M1.5	1.5mm	0.5mm	0.5mm	0.5mm
M2	2.0mm	1.0mm	1.0mm	1.0mm
M3	2.0mm	1.0mm	1.0mm	1.0mm
M4	2.0mm	1.5mm	1.5mm	1.5mm
M5	3.0mm	1.5mm	1.5mm	1.5mm
M6	3.0mm	2.0mm	2.0mm	2.0mm
M8	4.0mm	2.0mm </td <td>2.0mm</td> <td>2.0mm</td>	2.0mm	2.0mm
M10	5.0mm	3.0mm	3.0mm	3.0mm
M12	5.0mm	3.0mm	3.0mm	3.0mm

表 1 / Table 1

3.1.6 齒條的定位銷孔是專門提供齒條的重覆安裝時的快速定位使用，若非重覆安裝，則不需要安裝定位銷孔。

3.1.6 Rack positioning pin hole is specially for quick positioning purpose when racks are assembled repeatedly. If no repeated demands, it is not necessary to assemble positioning pin hole.

3.2. 裝配步驟 A- 單支齒條裝配

3.2. Assembly Process A- Single Rack Assembly

3.2.1 將齒條放於枕木上，將檢測銷棒放置齒條的齒谷內，使用外徑分離卡檢測跨銷值，如圖 4。

3.2.1 Put the rack on the blocks; put the inspection pin in the rack valley and use O.D. micrometer to check the over pin value as Fig 4.

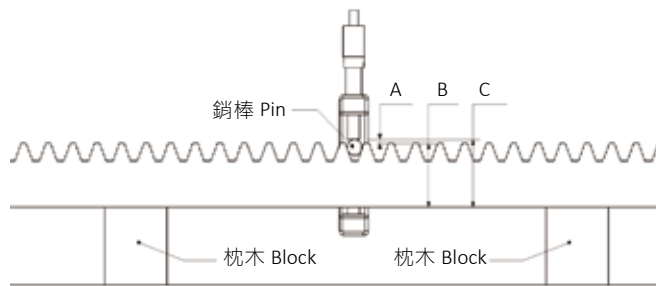


圖 4 / Fig.4

★齒條安裝前，請參考圖 4 的量測方式，確定齒條的跨銷值在精度等級內。

★ Before assembling racks, please refer to the inspection method on Fig. 4 and assure the over-pin values of rack are within the quality grade tolerance.

跨銷值計算公式：

跨銷值 C= 數值 A+ 齒條總高度 B

※ 檢測銷棒數值請參考表 2。

Over-Pin Value Formula:

Over-Pin Value C= Value A + Total Rack Height B

※ Please refer to Chart 2 for inspection over-pin value.



注意

檢測銷棒建議直徑公差於 $0 \geq -0.001\text{mm}$ 的檢測為最佳精準度。



Attention

The best tolerance of inspection pin diameter is $\geq -0.001\text{mm}$.

單位 / Unit : mm

模數 Module	數值 Value	檢測銷棒 Inspection Pin	齒距 Pitch	
			斜齒 Helical (19°31'42")	直齒 Straight
M1.0	0.766	ψ2	3.333	3.142
M1.5	1.149	ψ3	5.000	4.712
M2.0	1.532	ψ4	6.667	6.283
M3.0	2.298	ψ6	10.000	9.425
M4.0	3.064	ψ8	13.333	12.566
M5.0	3.830	ψ10	16.667	15.708
M6.0	4.596	ψ12	20.000	18.850
M8.0	6.128	ψ16	26.667	25.133
M10.0	7.659	ψ20	33.333	31.416

表 2 / Table 2

3.2.2 齒條置放於基座承靠面上，對齊螺絲孔距，微擰螺絲至沉頭螺絲孔接觸面，如圖 5 所示。

3.2.2 The rack is put on the top of the base of the bearing surface. Align the screw holes pitches. Slightly tighten the screws to the contact surface of countersunk head screw hole as the Fig. 5 as below.



圖 5 / Fig.5

3.2.3 將 C 型夾鉗墊上軟質墊塊，再將齒條頭尾兩端使用 C 型夾鉗固定，中間平均固定全部齒條與基座，讓齒條與基座承靠面完全貼合。(如圖 6 示)

3.2.3 Place the C-type clamp on the soft pad, then fix the two ends of the racks by the C-type clamp. Fix the middle of the rack averagely on the base to assure the whole rack is attached to the bearing surface of the base completed as Fig. 6 below.



圖 6 / Fig.6

3.2.4 將檢測銷棒平均放置於齒條前中後五個檢測點，使用高度規測量檢測銷棒的最高點，檢測數值須與步驟 2.1 所得之數值一致，如檢測出的數值不同，則將 C 型夾鉗夾緊，調整至與步驟 2.1 量測量出的數值一致即可，如圖 7。

3.2.4 Place inspection pins averagely on the 5 inspection points of the rack. Use height gauge to measure the highest point of the inspection pins. The inspected values should be the same as step 3.2.1. If the values are different, please tighten the C-type clamp and fix the values to the same as step 3.2.1. as Fig. 7 below.

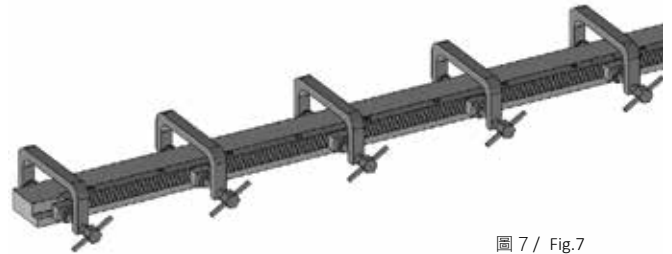


圖 7 / Fig.7

3.2.5 將螺絲 (螺栓) 由中間端開始固定再往兩側擰緊。

3.2.5 Fix the screws (bolts) from the middle; then onward to the two ends of the racks.

3.2.6 將 C 型夾鉗與軟性墊塊移除。

3.2.6 Remove the C-type clamp and soft pads.

3.3. 裝配步驟 B- 多支齒條裝配步驟

3.3. Assembly Process B- Multiple Racks Assembly

3.3.1 兩支或兩支以上齒條的裝配，裝配步驟依照裝配步驟 A- 單支齒條裝配的方式裝配，相接處需增加相接輔助器具反向齒規，作為銜接咬合之標準，以防止齒距誤差過大 (如圖 8)。

3.3.1 Two or more racks assembly, please follow up the assembly process A-single rack assembly. Between racks joint point, it's necessary to increase an assistive device, opposite teeth gauge as the standard of joining racks up, to avoid pitch error too large. (Fig. 8)

微擰螺絲後撤掉齒規 (如圖 9)，將檢測銷棒放置於左右相接處的齒谷內 (如圖 10)，微調相接的兩支齒條，使用高度規量測檢測銷棒最高點的數值 (如圖 10 ; ABC 三點)，使其三點數值與前面步驟 2.1 用外徑分離卡檢測之數值相同 (圖 12)。

Slightly tighten screws and remove opposite teeth gauge as Fig 9, and place the inspection pin on the teeth valley of the joint point (Fig.10). Slightly adjust the jointing two racks and use height gauge to measure the highest point values of the inspection pin(Fig 10/A,B,C points). The values of the three points should be the same as step 3.2.1, using O.D. micrometer to measure. (Fig. 12)

使用 C 型夾鉗墊上軟質墊塊將齒條固定於基座，再使用扭力扳手依序將固定螺絲鎖緊 (圖 13)，螺絲 (螺栓) 扭力值可參考表 3，待鎖緊後，撤掉測量銷棒、C 型夾鉗及軟質墊塊，即完成裝配步驟 (圖 14)。

Use C-type clamp and place the soft pads on the rack base. Then, use torque wrench in sequence to fix and tighten screws(bolts). The screw torque values could be referred to Table 3. (Fig. 13) After tightening, remove the inspection pins, C-type clamp and soft pads. The assembly step is completed. (Fig. 14)



注意

三根齒條以上裝配，需由基座中央開始向兩側銜接裝配。



Attention

Three racks above assembly, it starts from the middle base, and onwards to the ends.

3.3.1 高度規量測檢測銷棒最高點的數值，量測的數值須與前面步驟 3.2.1 用外徑分離卡檢測之數值相同。

3.3.1 Measure the highest point of the inspection pin by height gauge. The measured values should be the same as the values by OD micrometer as step 3.2.1.

3.3.2 相接處需使用相接輔助器具反向齒規，作為銜接咬合之標準，以防止齒距誤差過大，如圖 8。

3.3.2 The two joint sides should be placed on the assistive device, opposite teeth gauge as the standard of joining racks up. to avoid pitch error too large. (Fig. 8)



圖 8 / Fig.8

3.3.3 微擰螺絲後撤掉齒規，如圖 9

3.3.4 檢測銷棒放置於 A、B、C 三點做檢測，如圖 10。

3.3.3 Slightly loose screws and remove the opposite teeth gauge. Fig 9.

3.3.4 Place the inspection pins on A, B, C three points. As Fig 10.



圖 9 / Fig.9

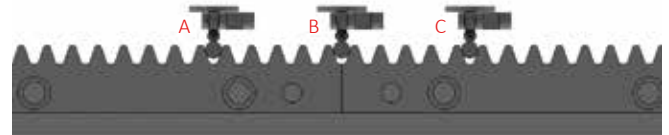


圖 10 / Fig.10

3.3.5 使用高度規量測檢測銷棒最高點的數值，使其三點檢測銷棒最高點數值與前面步驟 1 之數值相同，若中間檢測銷棒的最高點數值與左右兩支檢測銷棒最高點數值不同，可左右微調相接處齒條，得到三點檢測銷棒最高點之相同數值，如圖 11。

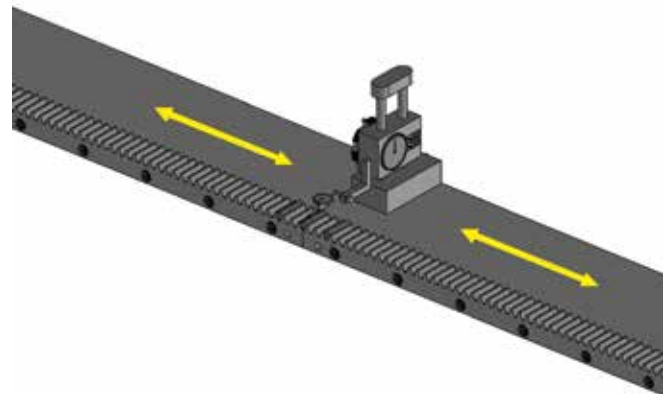


圖 11 / Fig.11

3.3.5 Measure the values of the 3 highest points of the inspection pins by height gauge to assure the 3 values are the same as on Step 1. If values are different, slightly adjust the two jointed racks, to make the value of the highest point of inspection pin is the same as step 1. Fig11.

3.3.6 量測正確的檢測銷棒最高點數值後，使用 C 型夾鉗墊上軟質墊塊，將齒條固定於基座，再使用扭力扳手依序將固定螺絲鎖緊，如圖 12。



圖 12 / Fig.12

3.3.6 Measure the correct value of the highest inspection pin; use C-type clamp and place soft pads to fix the rack on the base. Then, use torque wrench in sequence to fix and tighten screws as Fig. 12.

3.3.7 螺絲鎖緊後移除 C 型夾鉗、軟質墊塊，完成裝配，如圖 13。



圖 13 / Fig.13

3.3.7 Tighten screws and remove C-type clamp, soft pads. The assembly is completed. As Fig 13.

螺絲規格 Screw Spec.	六角扳手 Hex Wrench (mm)	強度 12.9 Torque Value (N.m)
M4*0.7P	3	4.3
M5*0.8P	4	7.5
M6*1.0P	5	13.4
M8*1.25P	6	30.5
M10*1.5P	8	61
M12*1.75P	10	102
M14*2.0P	12	162
M16*2.0P	14	249
M20*2.5P	17	481
M24*3.0P	19	836
M30*3.5P	22	1670

表 3 螺絲扭力值 / Table 3. Screw Torque

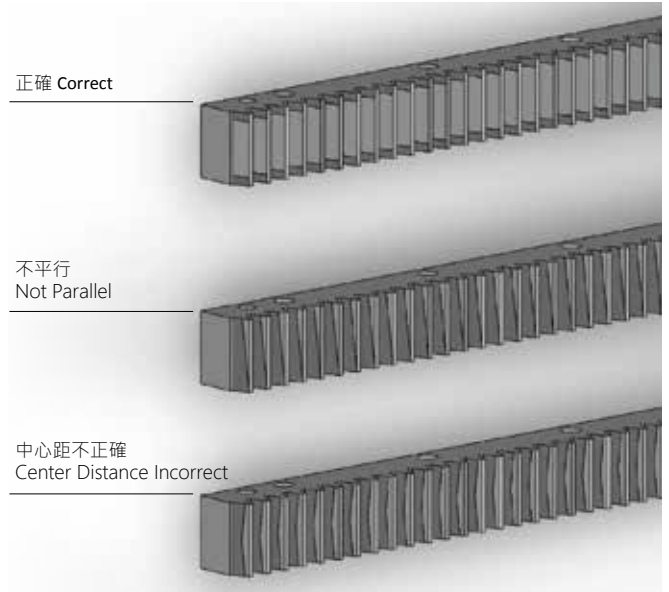


圖 14 / Fig.14

3.4. 裝配完成檢查

- 3.4.1 清潔附著於齒面上防鏽油。
- 3.4.2 於齒面上塗抹有色塗料如：黃丹、紅丹或藍丹亦可（請勿塗抹無法清除之漆料）。
- 3.4.3 於齒條運作範圍內，齒輪反覆來回移動嚙合。
- 3.4.4 觀看齒面塗抹有色顏料的脫落情況，如圖 14 所示。
- 3.4.5 齒面嚙合狀況正確，則清除附著於齒面的有色塗料，裸露部分請塗抹防鏽油脂，若非正確請調整至正確狀況。

3.5. 運行前注意事項

- 3.5.1 齒條裝配無誤，齒面嚙合情況正確。
- 3.5.2 齒條與齒輪嚙合面須有適合之潤滑油脂。
- 3.5.3 運行範圍裡確定無人員，避免造成傷害。

(四) 保養

- 4.1 依照設備運作情況制定保養計畫表。
- 4.2 潤滑油脂請選用適當之油脂，依照選用之油脂決定潤滑之設備。
- 4.3 保養周期視磨耗情形增長或縮短計畫。
- 4.4 齒條若磨損嚴重或崩裂，請更換齒條，避免影響運行精度效能。

※ 齒條拆卸與保養請由經過訓練的人員進行處理。

3.4. Inspection After Assembly.

- 3.4.1 Clean the lubricant oil on the racks.
- 3.4.2 Smear colored paint on racks such as lead oxide elow powder, red powder and blue powder. (Please use clearable paints).
- 3.4.3 Inside the rack movement, the pinion runs back and forth to clench.
- 3.4.4 Observe the peeling situation on the painted teeth of the racks as Fig.14.
- 3.4.5 If teeth clenches correctly, please clean the colored paint on the racks. Bare parts should be smeared anti-rust lubricant. If not correctly, please adjust it to correct.

3.5. Attentions by Operation

- 3.5.1 Racks Assembly correct. Teeth clench correct.
- 3.5.2 The clenching surface of rack and pinion needslubricant oil.
- 3.5.3 Assure no people inside the operation area to avoid any injure.

4. Maintenances

- 4.1 Formulate a maintenance schedule according to theequipment operation situation.
 - 4.2 Please select suitable lubricant oil and decide lubricant system according to the lubricant oil.
 - 4.3 Maintenance cycle should be increased or decreased, based on operation worn situation.
 - 4.4 If racks are worn or damaged seriously, please replace new racks to avoid any impact on operation accuracy and efficiency.
- ※Rack replacement and maintenance should be operated by trained and qualified professionals.



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