



德宝精工科技（苏州）有限公司

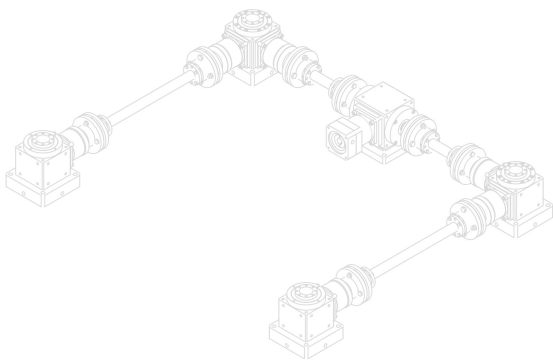
苏州德宝精工技术服务中心

西安倍格斯机电科技有限公司

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安全

- 正直、诚信、责任、使命，尊重他人并且乐于助人，是我们倡导的人的安全。
- 在我们所提供的传动装置专业制造中，真诚与客户沟通，产品方面，从品质、运输和最终使用上，我们均确保安全，在承诺、结果和质量方面值得客户信赖。
- 以人为本，我们强调，快乐工作以及自我价值的实现，人人平等，价值共享，致力于提升员工工作的安全感和对公司的归属感。
- 注重健康、环保和节能，尊重自然和履行社会责任，做合格的社会企业公民。

共赢

- 人力资源是企业的第一生产力，以人为本，企业是员工实现自我价值的平台。
- 个人的发展源于企业的发展，企业的发展依托于每个员工的卓越贡献，企业和员工是命运共同体，价值共同体，利益共同体，共同承担，共同发展。
- 我们的市场价值在于我们所带给客户的价值，我们通过传动装置专业制造服务，帮助和推动客户成功，与客户共存，并实现多方共赢。
- 企业是这个社会的有机组成部分，企业的进步和发展依托行业以及整个社会的进步和发展，依托社会，贡献社会，回报社会，我们与社会以及自然共存共赢。

创新服务

- 服务是 DAPO 的核心竞争优势所在，服务意识，将贯穿 DAPO 的整个体系。
- 以市场和客户为导向，创新服务，缔造价值，是 DAPO 的竞争核心。

愿景：做传动行业领跑者

使命：创造精密可靠的传动产品，提供智能装备传动整体解决方案，助力中国智造

价值观：客户至上；以人为本；高效协作；精益求精



INTRODUCTION

苏州德宝精工是一家集科研生产销售于一体的动力转动装置专业制造商，企业位于中国苏州市。交通便捷，经过多年兢兢业业的务实经营，已成为全球传动行业的创新者。

公司生产的减速机产品齐全，主导产品有高精密行星齿轮减速机、准双曲面齿轮减速机、中空旋转平台及精密齿轮齿条等。产品广泛应用于自动化产业、工业机器人、航空航天、数控机床、制金矿山、啤酒饮料、烟草轻工、环保工程、仓储物流、塑料机械、起重运输、立体停车、汽车制造、纺织、食品、陶瓷、等领域中。

商潮涌动，傲立潮头；风起云涌，英雄并起。秉承着锐意进取敢为人先的企业理念，目前，苏州德宝的产品拥有范围广阔的市场占有率，产品销售至全国各地，出口东南亚欧美等国家与地区，公司也将一如继往，争做传动行业的佼佼者。

始终本着敬业求实创新的经营理念，坚持质量第一信誉第一的宗旨，为广大用户提供优质的减速机和服务，以质量求生存，以顾客为中心，以管理求效益，以市场求发展是公司的经营方针。致力创新，永不满足是本公司永恒的主题。纳斯达克汇聚一批有理想敢拼搏勇争先的高素质专业技术人员，致力于开发生产高效节能精密环保型传动产品，决心以更加优质及时快捷的服务，已改为人先艰苦创业的敬业精神，与国内外朋友精诚合作，共同发展。

INTRODUCTION

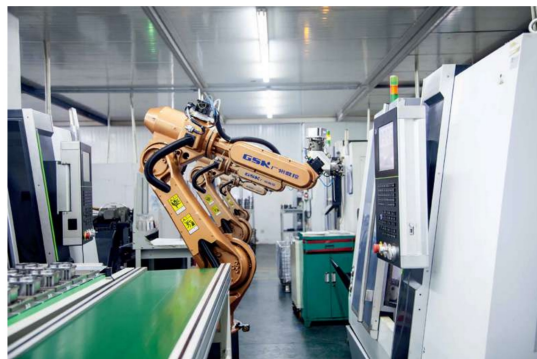
关于我们

DAPO is a professional manufacturer of power rotating equipment which integrates scientific research, production and sales. Its enterprise is located in Shanghai, East China. Convenient transportation, after years of conscientious and pragmatic operation, has become an innovator in the global rotation industry.

The company produces a complete range of reducer products, leading products include high-precision planetary gear reducer, UDL series continuously variable transmission, SRC series helical gear reducer, hypoid gear reducer, robot joint reducer, PC helical gear reducer, precision rack and pinion, etc Aerospace, CNC machine tools, gold mine, beer and beverage, tobacco light industry, environmental protection engineering, warehousing and logistics, plastic machinery, lifting and transportation, three-dimensional parking, automobile manufacturing, textile, food, ceramics, etc.

The tide of business is surging; The wind and the clouds are surging, and the heroes are rising together. Adhering to the enterprising, dare to be the first business philosophy. At present, DAPO products have a wide range of market share. The products are sold all over the country and exported to Southeast Asia, Europe, America and other countries and regions. The company will also strive to be the leader in the transmission industry.

DAPO people always adhere to the business philosophy of dedication, realism and innovation, adhere to the tenet of quality first and reputation first, and provide high-quality reducers and services for the majority of users. The company's business strategy is to survive with quality, focus on customers, seek benefits with management and seek development with market. Committed to innovation, never satisfied is the eternal theme of the company, DAPO gathered a group of high-quality professional and technical personnel who have the ideal and dare to fight bravely, committed to the development and production of high-efficiency energy-saving precision environmental protection transmission products, determined to provide more high-quality, timely and efficient service, has changed into the spirit of hard work and entrepreneurship, and sincerely cooperate with friends at home and abroad for common development.



WORKSHOP

生产车间

每一道工序,要求精益求精。
Perfection in Every Little Step & Process.

精益求精 追求卓越
我们努力做的更好



TEST CENTER 检测中心

每一件产品,皆是用心之作。
Each Product is Manufactured by Heart.

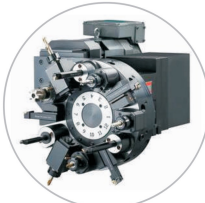




机械手臂



机器人



加工设备



桌面机器人



DAPO



包装设备



印刷设备



医疗设备



高铁

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产品系列简介 / PRODUCT SERIES INTRODUCTION

PA Series



7种可选尺寸		42mm~220mm
额定输出力矩		14Nm~2000Nm
减速比	单级	3/4/5/6/7/8/10
	双级	12/15/20/25/30/35 40/50/60/70/80/100
背隙	单级	≤1, ≤3, ≤5 arcmin
	双级	≤3, ≤5, ≤7 arcmin

PAR Series



7种可选尺寸		42mm~220mm
额定输出力矩		14Nm~2000Nm
减速比	单级	3/4/5/6/7/8/10/14/20
	双级	12/15/20/25/30/35/40/50/60 70/80/100/120/140/160/200
背隙	单级	≤2, ≤4, ≤6 arcmin
	双级	≤4, ≤7, ≤9 arcmin

PL Series



10种可选尺寸		40mm~160mm
额定输出力矩		14Nm~650Nm
减速比	单级	3/4/5/6/7/8/10
	双级	12/15/20/25/30 35/40/50/60/70/80/100
背隙	单级	≤8 arcmin
	双级	≤10 arcmin

PLR Seies



4种可选尺寸		60mm~160mm
额定输出力矩		40Nm~650Nm
减速比	单级	3/4/5/6/7/8/10/14/20
	双级	12/15/20/25/30/35 40/50/60/70/80/100 120/140/160/200
背隙	单级	13 arcmin
	双级	15 arcmin

PD Series



7种可选尺寸		47mm~255mm
额定输出力矩		14Nm~2000Nm
减速比	单级	4/5/6/7/8/10
	双级	20/25/35/40/50/60 70/80/100
背隙	单级	≤1, ≤3, ≤5 arcmin
	双级	≤3, ≤5, ≤7 arcmin

PDR Series



7种可选尺寸		47mm~255mm
额定输出力矩		14Nm~2000Nm
减速比	单级	4/5/6/7/8/10/14/20
	双级	20/25/35/40/50/60/70 80/100/120/140/160/200
背隙	单级	≤2, ≤4, ≤6 arcmin
	双级	≤4, ≤7, ≤9 arcmin

PLA Series



10种可选尺寸		40mm~160mm
额定输出力矩		14Nm~650Nm
减速比	单级	3/4/5/6/7/8/10
	双级	12/15/20/25/30 35/40/50/60/70/80/100
背隙	单级	≤8 arcmin
	双级	≤10 arcmin

PLAR Seies



4种可选尺寸		60mm~160mm
额定输出力矩		40Nm~650Nm
减速比	单级	3/4/5/6/7/8/10/14/20
	双级	12/15/20/25/30/35 40/50/60/70/80/100 120/140/160/200
背隙	单级	13 arcmin
	双级	15 arcmin

PB Series



7种可选尺寸		42mm~220mm
额定输出力矩		14Nm~2000Nm
减速比	单级	3/4/5/6/7/8/10
	双级	12/15/20/25/30/35 40/50/60/70/80/100
背隙	单级	≤5 arcmin
	双级	≤7 arcmin

PBR Series



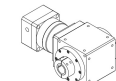
4种可选尺寸		60mm~142mm
额定输出力矩		40Nm~650Nm
减速比	单级	3/4/5/6/7/8/10/14/20
	双级	12/15/20/25/30/35 40/50/60/70/80/100 120/140/160/200
背隙	单级	10 arcmin
	双级	12 arcmin

KXW/KTM-AS Series



20种可选尺寸		43.5mm~245mm
额定输出力矩		9.5Nm~2150Nm
减速比	单级	2/6/8/10/14/16/20
	双级	24/30/32/40/50/60 70/80/100/140/160/200
背隙	单级	≤3 arcmin < 5 arcmin
	双级	≤8 arcmin < 12 arcmin

KXW/KT-A



22种可选尺寸		66mm~165mm
额定输出力矩		13Nm~1200Nm
减速比	单级	1/3/4/5/7/8/10
	双级	12/15/16/20/21/25/30 35/40/50/70/80/100
背隙	单级	≤3 arcmin < 5 arcmin
	双级	≤5 arcmin < 8 arcmin

PE Series



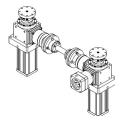
6种可选尺寸		70mm~235mm
额定输出力矩		40Nm~2000Nm
减速比	单级	3/4/5/6/7/8/10
	双级	12/15/20/25/30/35 40/50/60/70/80/100
背隙	单级	≤5 arcmin
	双级	≤7 arcmin

PER Seies



4种可选尺寸		70mm~155mm
额定输出力矩		40Nm~650Nm
减速比	单级	3/4/5/6/7/8/10/14/20
	双级	12/15/20/25/30/35/40/50/60 70/80/100/120/140/160/200
背隙	单级	10 arcmin
	双级	12 arcmin

KB-AS/A



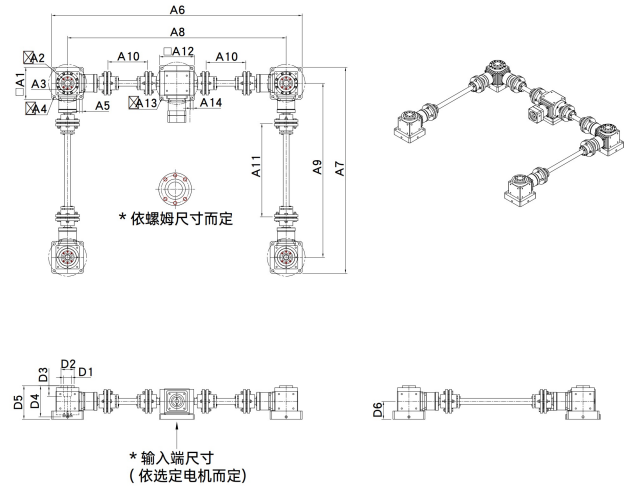
10种可选结构		定制
额定输出力矩		30Nm~2150Nm
减速比	单级	1/3/4/5/6/7/8/10
	双级	12/14/20/25/50/35 40/50
背隙	单级	≤3 arcmin
	双级	≤5 arcmin

GEAR RACK

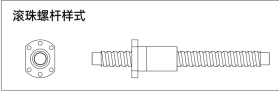


齿轮6种可选尺寸		19mm~79mm
齿轮		定制
精度等级	齿条	5/6/8/10
	齿轮	5/6/8/10
外观	齿条	本色/发黑
	齿轮	本色/发黑

螺杆升降机（不附螺杆）型式 - 尺寸图
齿轮比 2~50



P.S:(4 轴螺杆升降 - 配各种厂牌螺杆)
1. 滚珠螺杆直径 (16/20/25)。
2. 滚珠螺杆导程 (5/10/20/25)。
3. 正确尺寸依 2D/3D 为准。



规格	D1(H6)	D2	D3	D4	D5	D6	A1	A2	A3	A4	A5	A6	A7
KB080AS-G4U	28/36	45	依螺杆之尺寸而定				61.5	110	依螺母之尺寸而定		130	4- ϕ 8.5	* 依螺杆跨距而定
KB110AS-G4U	40	65					61.5/65	142			170	4- ϕ 8.5	

规格	A8	A9	A10	A11	A12	A13	A14
KB080AS-G4U	* 依螺杆跨距而定				120	145	4- ϕ 8.5
KB110AS-G4U					142	170	4- ϕ 8.5

GEAR RACK

SERIES



DAPO

DAPO POWER GEARS

齿条型号说明



1st	2nd	3rd	4th	5th	6th	7th	8th
材料 Material	齿型 Type	棒型 Shape	齿面处理 Teeth Treatment	硬度处理 Hardness	模数 Module	长度 Length	等级 Grade
C	S	T	G	H	O20	10	DIN JIS
C= 中碳钢 M= 合金钢	S= 直齿 H= 斜齿	T= 四角棒	M= 铣齿 G= 齿研	Q= 调质 H= 硬化处理	M1.5~M10	05~500mm 10~1000mm 15~1500mm 20~2000mm	DIN 5-10 JIS 1-5
C= Carbon Steel =SS0C M= Alloy Steel =SCM440	S= Straight H= Helical	T= Tetragon	M= Milled G= Ground	H= Hardened Q= Quenched & Tempered			

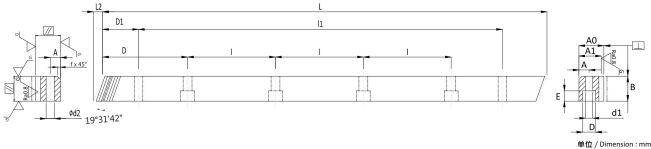
备注：长度、钻孔、材质、表面处理（喷砂、磷酸盐、镀膜、研磨）等特殊需求，皆可定制。

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

DAPO POWER GEARS

斜齿齿研齿条

CHTGH-DIN5



系列 CHTGH-DIN5 斜齿齿研齿条
质量等级 DIN 5

材料 SS0C
右旋角 19°31'42"
硬度 HRC 50~55°
硬化处理后四面研磨与齿研
总齿距误差: $f_p/1000 \leq 0.026$ mm
室温在摄氏 25° 为准

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

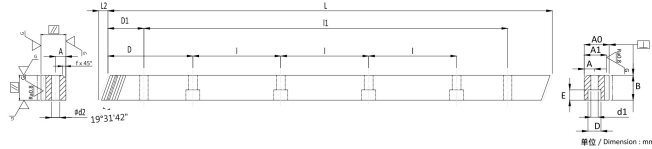
Material SS0C
Right Hand Angle 19°31'42"
Hardness HRC 50~55°
Ground on all sides after hardening.
Total Pitch Error: $f_p/1000 \leq 0.026$ mm
Room Temperature is 25°C

型号 Code	模数 Module	L	L2	齿数 No. of Teeth	B	A0	A1	D	I	孔数 No. of Holes	A	ød1	øD	E	D1	l1	ød2	f	F ₀ 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	4.84	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	4.84	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	8.15	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	8.15	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	10.19	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	10.19	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	14.77	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	14.77	6.0
CHTGH04005-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	26.49	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	26.49	10.8
CHTGH05005-DIN5	5	500.00	17.40	30	49	39	34.0	62.5	125	4	12	14	20	13	37.5	425.00	11.7	3	41.60	6.8
CHTGH05010-DIN5	5	1000.00	17.40	60	49	39	34.0	62.5	125	8	12	14	20	13	37.5	925.00	11.7	3	41.60	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	60.11	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	60.11	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	107.31	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	107.31	42.6

DAPO POWER GEARS

斜齿齿研齿条

CHTG-DIN6



单位 / Dimension : mm

系列 CHTG-DIN6 斜齿齿研齿条

质量等级 DIN 6

材料 550C

右旋角 19°31'42"

硬度 HRC 50~55°

硬化处理后四面研磨与齿研

总齿距误差: $F_p/1000 \leq 0.036 \text{ mm}$

$F_p/2000 \leq 0.047 \text{ mm} (\leq 0.024/1000 \text{ mm})$

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

Material 550C

Right Hand Angle 19°31'42"

Hardness HRC 50~55°

Ground on all sides after hardening.

Total Pitch Error: $F_p/1000 \leq 0.036 \text{ mm}$

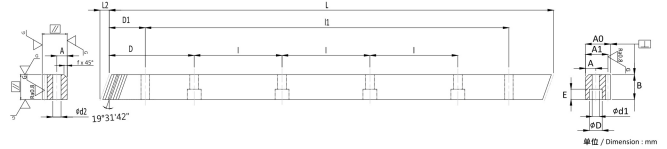
$F_p/2000 \leq 0.047 \text{ mm} (\leq 0.024/1000 \text{ mm})$

型号 Code	模数 Module	L	L2	齿数 No. of Teeth	B	A0	A1	D	I	孔数 No. of Holes	A	ed1	ed2	E	D1	l1	ed2	f	F _p kN	KG
CHTG01505-DIN6	1.5	500.0	6.70	100	19	19	17.5	62.5	125	4	8	7	11	7	31.7	436.60	5.7	1.5	4.84	1.3
CHTG01510-DIN6	1.5	1000.0	6.70	200	19	19	17.5	62.5	125	8	8	7	11	7	31.7	936.60	5.7	1.5	4.84	2.6
CHTG02005-DIN6	2	500.0	8.50	75	24	24	22.0	62.5	125	4	8	7	11	7	31.7	436.60	5.7	2	8.15	2.1
CHTG02010-DIN6	2	1000.0	8.50	150	24	24	22.0	62.5	125	8	8	7	11	7	31.7	936.60	5.7	2	8.15	4.1
CHTG02020-DIN6	2	2000.0	8.50	300	24	24	22.0	62.5	125	16	8	7	11	7	31.7	1936.60	5.7	2	8.15	8.2
CHTG02505-DIN6	2.5	500.0	8.50	60	24	24	21.5	62.5	125	4	9	7	11	7	31.7	436.60	5.7	2	10.19	2.1
CHTG02510-DIN6	2.5	1000.0	8.50	120	24	24	21.5	62.5	125	8	9	7	11	7	31.7	936.60	5.7	2	10.19	4.1
CHTG02520-DIN6	2.5	2000.0	8.50	240	24	24	21.5	62.5	125	16	9	7	11	7	31.7	1936.60	5.7	2	10.19	8.2
CHTG03005-DIN6	3	500.0	10.30	50	29	29	26.0	62.5	125	4	9	10	15	9	35.0	430.00	7.7	2	14.77	3.0
CHTG03010-DIN6	3	1000.0	10.30	100	29	29	26.0	62.5	125	8	9	10	15	9	35.0	930.00	7.7	2	14.77	6.0
CHTG03020-DIN6	3	2000.0	10.30	200	29	29	26.0	62.5	125	16	9	10	15	9	35.0	1930.00	7.7	2	14.77	12.0
CHTG04005-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	26.49	5.5
CHTG04010-DIN6	4	1000.0	13.80	75	39	39	35.0	62.5	125	8	12	10	15	9	33.3	933.40	7.7	2	26.49	10.8
CHTG04020-DIN6	4	2000.0	13.80	150	39	39	35.0	62.5	125	16	12	10	15	9	33.3	1933.40	7.7	2	26.49	21.6
CHTG05005-DIN6	5	500.0	17.40	30	49	39	34.0	62.5	125	4	12	14	20	13	37.5	425.00	11.7	3	41.60	6.8
CHTG05010-DIN6	5	1000.0	17.40	60	49	39	34.0	62.5	125	8	12	14	20	13	37.5	925.00	11.7	3	41.60	13.6
CHTG05020-DIN6	5	2000.0	17.40	120	49	39	34.0	62.5	125	16	12	14	20	13	37.5	1925.00	11.7	3	41.60	27.2
CHTG06005-DIN6	6	500.0	20.90	25	59	49	43.0	62.5	125	4	16	18	26	17	37.5	425.00	15.7	3	60.11	10.3
CHTG06010-DIN6	6	1000.0	20.90	50	59	49	43.0	62.5	125	8	16	18	26	17	37.5	925.00	15.7	3	60.11	20.5
CHTG06020-DIN6	6	2000.0	20.90	100	59	49	43.0	62.5	125	16	16	18	26	17	37.5	1925.00	15.7	3	60.11	41.1
CHTG08005-DIN6	8	480.0	28.00	18	79	79	71.0	60.0	120	4	25	22	33	21	120.0	240.00	19.7	4	107.31	21.3
CHTG08010-DIN6	8	960.0	28.00	36	79	79	71.0	60.0	120	8	25	22	33	21	120.0	720.00	19.7	4	107.31	42.6
CHTG08020-DIN6	8	1920.0	28.00	72	79	79	71.0	60.0	120	16	25	22	33	21	120.0	1680.00	19.7	4	107.31	85.1
CHTG10005-DIN6	10	500.0	35.11	15	99	99	89.0	62.5	125	4	32	33	48	32	125.0	250.00	19.7	5	168.10	10.8
CHTG10010-DIN6	10	1000.0	35.11	30	99	99	89.0	62.5	125	8	32	33	48	32	125.0	750.00	19.7	5	168.10	21.6

DAPO POWER GEARS

斜齿齿研齿条

MHTG-DIN6



单位 / Dimension : mm

系列 MHTG-DIN6 斜齿齿研齿条

质量等级 DIN 6

材料 SCM440

右旋角 19°31'42"

硬度 HRC 10~12°

四面研磨与齿研

总齿距误差: $F_p/1000 \leq 0.036 \text{ mm}$

$F_p/2000 \leq 0.047 \text{ mm} (\leq 0.024/1000 \text{ mm})$

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: $F_p/1000 \leq 0.036 \text{ mm}$

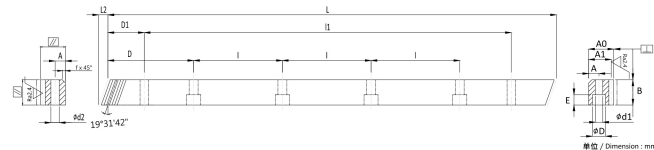
$F_p/2000 \leq 0.047 \text{ mm} (\leq 0.024/1000 \text{ mm})$

型号 Code	模数 Module	L	L2	齿数 No. of Teeth	B	A0	A1	D	I	孔数 No. of Holes	A	ed1	ed2	E	D1	l1	ed2	f	F _p kN	KG
MHTG01505-DIN6	1.5	500.0	6.70	100	19	19	17.5	62.5	125	4	8	7	11	7	31.7	436.60	5.7	1.5	0.94	1.3
MHTG01510-DIN6	1.5	1000.0	6.70	200	19	19	17.5	62.5	125	8	8	7	11	7	31.7	936.60	5.7	1.5	0.94	2.6
MHTG02005-DIN6	2	500.0	8.50	75	24	24	22.0	62.5	125	4	8	7	11	7	31.7	436.60	5.7	2	1.58	2.1
MHTG02010-DIN6	2	1000.0	8.50	150	24	24	22.0	62.5	125	8	8	7	11	7	31.7	936.60	5.7	2	1.58	4.1
MHTG02020-DIN6	2	2000.0	8.50	300	24	24	22.0	62.5	125	16	8	7	11	7	31.7	1936.60	5.7	2	1.58	8.2
MHTG02505-DIN6	2.5	500.0	8.50	60	24	24	21.5	62.5	125	4	9	7	11	7	31.7	436.60	5.7	2	1.98	2.1
MHTG02510-DIN6	2.5	1000.0	8.50	120	24	24	21.5	62.5	125	8	9	7	11	7	31.7	936.60	5.7	2	1.98	4.1
MHTG02520-DIN6	2.5	2000.0	8.50	240	24	24	21.5	62.5	125	16	9	7	11	7	31.7	1936.60	5.7	2	1.98	8.2
MHTG03005-DIN6	3	500.0	10.30	50	29	29	26.0	62.5	125	4	9	10	15	9	35.0	430.00	7.7	2	2.87	3.0
MHTG03010-DIN6	3	1000.0	10.30	100	29	29	26.0	62.5	125	8	9	10	15	9	35.0	930.00	7.7	2	2.87	6.0
MHTG03020-DIN6	3	2000.0	10.30	200	29	29	26.0	62.5	125	16	9	10	15	9	35.0	1930.00	7.7	2	2.87	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	5.15	5.5
MHTG04010-DIN6	4	1000.0	13.80	75	39	39	35.0	62.5	125	8	12	10	15	9	33.3	933.40	7.7	2	5.15	10.8
MHTG04020-DIN6	4	2000.0	13.80	150	39	39	35.0	62.5	125	16	12	10	15	9	33.3	1933.40	7.7	2	5.15	21.6
MHTG05005-DIN6	5	500.0	17.40	30	49	39	34.0	62.5	125	4	12	14	20	13	37.5	425.00	11.7	3	8.08	6.8
MHTG05010-DIN6	5	1000.0	17.40	60	49	39	34.0	62.5	125	8	12	14	20	13	37.5	925.00	11.7	3	8.08	13.6
MHTG05020-DIN6	5	2000.0	17.40	120	49	39	34.0	62.5	125	16	12	14	20	13	37.5	1925.00	11.7	3	8.08	27.2
MHTG06005-DIN6	6	500.0	20.90	25	59	49	43.0	62.5	125	4	16	18	26	17	37.5	425.00	15.7	3	11.68	10.3
MHTG06010-DIN6	6	1000.0	20.90	50	59	49	43.0	62.5	125	8	16	18	26	17	37.5	925.00	15.7	3	11.68	20.5
MHTG06020-DIN6	6	2000.0	20.90	100	59	49	43.0	62.5	125	16	16	18	26	17	37.5	1925.00	15.7	3	11.68	41.1
MHTG08005-DIN6	8	480.0	28.00	18	79	79	71.0	60.0	120	4	25	22	33	21	120.0	240.00	19.7	4	20.85	21.3
MHTG08010-DIN6	8	960.0	28.00	36	79	79	71.0	60.0	120	8	25	22	33	21	120.0	720.00	19.7	4	20.85	42.6
MHTG08020-DIN6	8	1920.0	28.00	72	79	79	71.0	60.0	120	16	25	22	33	21	120.0	1680.00	19.7	4	20.85	85.1

DAPO POWER GEARS

斜齿热处理齿条

CHTMH-DIN10



系列 CHTMH-DIN10 斜齿热处理齿条
质量等级 DIN 10

材料 550C
右旋角 19°31'42"
硬度 HRC 50~55°
表面 喷砂处理
总齿距误差: $F_p / 1000 \leq 0.15 \text{ mm}$

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

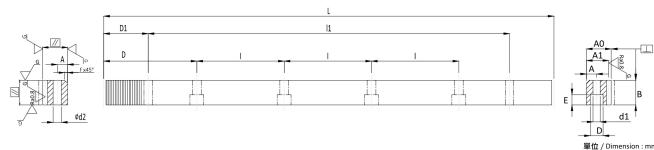
Material 550C
Right Hand Angle 19°31'42"
Hardness: HRC 50~55°
Surfaces: Sand-blasted.
Total Pitch Error: $F_p / 1000 \leq 0.15 \text{ mm}$

型号 Code	模数 Module	L	L2	齿数 No. of Teeth	B	A0	A1	D	l	孔数 No. of Holes	A	ed1	eD	E	D1	l1	ed2	f	F0 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	3.18	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	5.98	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	5.98	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	10.83	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	10.83	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	19.42	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	19.42	21.6
CHTMH05010-DIN10	5	1000	17.40	60	49	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7	3	30.51	13.6
CHTMH05020-DIN10	5	2000	17.40	120	49	39	34	62.5	125	16	12	14	20	13	37.5	1925.0	11.7	3	30.51	27.2
CHTMH06010-DIN10	6	1000	20.90	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7	3	44.08	20.5
CHTMH06020-DIN10	6	2000	20.90	100	59	49	43	62.5	125	16	16	18	26	17	37.5	1925.0	15.7	3	44.08	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	78.69	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	78.69	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	123.27	69.6

DAPO POWER GEARS

直齿齿研齿条

CSTGH-DIN5



系列 CSTGH-DIN5 直齿齿研齿条
质量等级 DIN 5

材料 550C
硬度 HRC 50~55°
硬化处理后四面研磨与齿研
总齿距误差: $F_p / 1000 \leq 0.026 \text{ mm}$
室温在摄氏 25° 为准

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

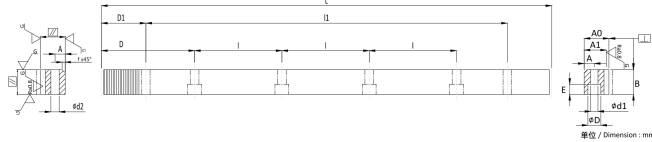
Material 550C
Hardness: HRC 50~55°
Ground on all sides after hardening.
Total Pitch Error: $F_p / 1000 \leq 0.026 \text{ mm}$
Room Temperature is 25°C

型号 Code	模数 Module	L	齿数 No. of Teeth	B	A0	A1	D	l	孔数 No. of Holes	A	ed1	eD	E	D1	l1	ed2	f	F0 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	5.69	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	10.32	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	18.50	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	29.06	17.2

DAPO POWER GEARS

直齿齿研齿条

CSTGH-DIN6



系列 CSTGH-DIN6 直齿齿研齿条
质量等级 DIN 6

材料 S50C
硬度 HRC 50~55°
硬化处理后四面研磨与齿研
总齿距误差: $F_p/1000 \leq 0.036$ mm
 $F_p/2000 \leq 0.047$ mm ($\leq 0.024/1000$ mm)

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

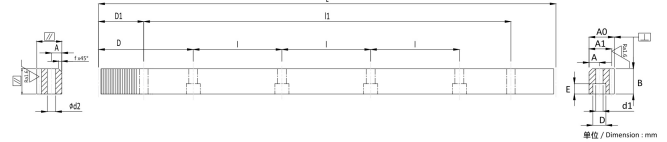
Material S50C
Hardness: HRC 50~55°
Ground on all sides after hardening.
Total Pitch Error: $F_p/1000 \leq 0.036$ mm
 $F_p/2000 \leq 0.047$ mm ($\leq 0.024/1000$ mm)

型号 Code	模数 Module	L	齿数 No. of Teeth	B	A0	A1	D	I	孔数 No. of Holes	A	ød1	øD	E	D1	I1	ød2	f	F _{ts} kN	KG
CSTGH0150S-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	3.38	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	3.38	2.6
CSTGH0200S-DIN6	2	502.65	80	24	24	22	62.83	125.66	4	8	7	11	7	31.3	440.10	5.7	2	5.69	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	5.69	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	5.69	8.2
CSTGH0250S-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	7.12	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	7.12	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	7.12	8.2
CSTGH0300S-DIN6	3	508.94	54	29	29	26	63.62	127.23	4	9	10	15	9	34.4	440.10	7.7	2	10.32	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	10.32	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	10.32	12.2
CSTGH0400S-DIN6	4	502.65	40	39	39	35	62.83	125.66	4	12	10	15	9	37.5	427.70	7.7	2	18.50	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	18.50	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	18.50	21.7
CSTGH0500S-DIN6	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.30	11.7	3	29.06	6.8
CSTGH05010-DIN6	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945.00	11.7	3	29.06	13.7
CSTGH05020-DIN6	5	2010.62	128	49	39	34	62.83	125.66	16	12	14	20	13	30.1	1950.40	11.7	3	29.06	27.3
CSTGH0600S-DIN6	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.10	15.7	3	41.99	10.5
CSTGH06010-DIN6	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.00	15.7	3	41.99	20.9
CSTGH06020-DIN6	6	2035.75	108	59	49	43	63.62	127.23	16	16	18	26	17	31.4	1973.00	15.7	3	41.99	41.8
CSTGH0800S-DIN6	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.45	19.7	4	74.96	22.3
CSTGH0800S-DIN6	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952.00	19.7	4	74.96	44.6
CSTGH08020-DIN6	8	2010.61	80	79	79	71	62.83	125.66	16	25	22	33	21	26.6	1957.40	19.7	4	74.96	89.1

DAPO POWER GEARS

直齿精铣齿条

CSTM-DIN8



系列 CSTM-DIN8 直齿精铣齿条
质量等级 DIN 8

材料 S50C
硬度 HRC 10~12°
总齿距误差: $F_p/1000 \leq 0.060$ mm
 $F_p/2000 \leq 0.080$ mm

Series CSTM-DIN8 Straight Milled Racks
Quality Grade DIN 8

Material S50C
Hardness: HRC 10~12°
Total Pitch Error: $F_p/1000 \leq 0.060$ mm
 $F_p/2000 \leq 0.080$ mm

型号 Code	模数 Module	L	齿数 No. of Teeth	B	A0	A1	D	I	孔数 No. of Holes	A	ød1	øD	E	D1	I1	ød2	f	F _{ts} 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	0.35	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	0.68	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	0.68	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	1.22	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	1.22	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	2.18	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	2.18	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	3.33	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	3.33	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	4.82	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	4.82	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	8.60	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	8.60	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	13.47	66.1



1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
材料 Material	齿型 Type	系列 Series	齿面处理 Teeth Treatment	硬度处理 Hardness	模数 Module 周节 Circular Pitch	齿 数 No. of Teeth	序号 Series	图号 Fig	等级 Grade
C	S	(F)	G	H	020	030	1	1	DIN J5
C= 中碳钢 M= 合金钢	S= 直齿 H= 斜齿	F= 法兰式	G=齿研 S= 磨削 M= 铣齿	H= 硬化处理					
C= Carbon Steel =S45C =SCC M= Alloy Steel =SCM440 =SCM415	S= Straight H= Helical	F= Flange	G= Ground S= Skiving M= Milled	H= Hardened High Frequency Carburized.	M1.5~M10 CP5-CP20	12~120	1~11	1, 2	DI N 6-10 JIS 2-4

MHGH-DIN6

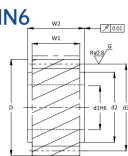


图1 / Fig. 1

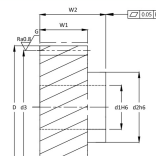
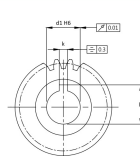


图2 / Fig. 2



单位 / Dimension : mm

系列 MHGH-DIN6 斜齿齿研齿轮
质量等级 DIN 6

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 50~55°
硬化处理后齿面研磨

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

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 50~55°
Teeth Ground after Hardening

型号 Code	图 Fig.	DIN	齿 数 No. of Teeth	d1	d2	d3	D	W1	W2	k	h	F ₁₀ kN	KG
模数 1.5 / Module 1.5													
MHGH0150201	1	-DIN6	20	11	25	31.83	34.83	20	22	4	12.8	4.48	0.10
MHGH0150202	1	-DIN6	20	13	25	31.83	34.83	20	22	5	15.3	4.48	0.10
MHGH0150203	1	-DIN6	20	14	25	31.83	34.83	20	22	5	16.3	4.48	0.10
MHGH0150204	1	-DIN6	20	16	25	31.83	34.83	20	22	5	18.3	4.48	0.10
MHGH0150205	2	-DIN6	20	16	25	31.83	34.83	20	30	5	18.3	4.48	0.11
MHGH0150206	2	-DIN6	20	16	24	31.83	34.83	20	50	*	*	4.48	0.15
MHGH0150211	2	-DIN6	21	16	30	33.42	36.42	20	46	5	18.3	5.29	0.30
MHGH0150221	2	-DIN6	22	16	25	35.01	38.01	20	30	5	18.3	5.56	0.14
MHGH0150222	2	-DIN6	22	16	24	35.01	38.01	20	50	*	*	5.56	0.18
MHGH0150251	2	-DIN6	25	16	30	39.78	42.78	20	46	5	18.3	6.37	0.18
MHGH0150252	2	-DIN6	25	16	25	39.79	42.79	20	30	5	18.3	6.37	0.18
MHGH0150253	2	-DIN6	25	16	24	39.79	42.79	20	50	*	*	6.37	0.22
MHGH0150301	2	-DIN6	30	16	25	47.75	50.75	20	30	5	18.3	7.12	0.27
MHGH0150302	2	-DIN6	30	16	24	47.75	50.75	20	50	*	*	7.12	0.31
模数 2 / Module 2													
MHGH0200181	1	-DIN6	18	16	25	38.197	42.20	28	30	5	18.3	7.47	0.20
MHGH0200201	1	-DIN6	20	19	30	42.44	46.40	28	30	6	21.8	8.36	0.20
MHGH0200202	2	-DIN6	20	19	30	42.44	46.40	28	56	6	21.8	8.36	0.20
MHGH0200203	1	-DIN6	20	20	30	42.44	46.40	28	30	6	22.8	8.36	0.20
MHGH0200204	2	-DIN6	20	22	36	42.44	46.40	28	56	6	24.8	8.36	0.20
MHGH0200205	1	-DIN6	20	22	30	42.44	46.40	28	30	6	24.8	8.36	0.20
MHGH0200206	2	-DIN6	20	22	36	42.44	46.40	28	36	6	24.8	8.36	0.20
MHGH0200207	2	-DIN6	20	22	35	42.44	46.44	25	40	6	24.8	8.36	0.26
MHGH0200208	2	-DIN6	20	22	30	42.44	46.44	25	60	*	*	8.36	0.30
MHGH0200211	1	-DIN6	21	16	25	44.56	48.60	28	30	5	18.3	8.81	0.30
MHGH0200212	2	-DIN6	21	22	36	44.56	48.60	28	30	6	24.8	8.81	0.30
MHGH0200221	1	-DIN6	22	19	30	46.69	50.70	28	30	6	21.8	10.38	0.30
MHGH0200222	2	-DIN6	22	19	30	46.69	50.70	28	56	6	21.8	10.38	0.30
MHGH0200223	1	-DIN6	22	22	30	46.69	50.70	28	30	6	24.8	10.38	0.30
MHGH0200224	2	-DIN6	22	22	36	46.69	50.70	28	56	6	24.8	10.38	0.30
MHGH0200225	2	-DIN6	22	22	35	46.69	50.69	25	40	6	24.8	9.27	0.32
MHGH0200226	2	-DIN6	22	22	35	46.69	50.69	25	60	*	*	9.27	0.35
MHGH0200251	1	-DIN6	25	19	30	53.05	57.10	28	30	6	21.8	11.90	0.40
MHGH0200252	2	-DIN6	25	19	30	53.05	57.10	28	56	6	21.8	11.90	0.40
MHGH0200253	1	-DIN6	25	20	30	53.05	57.10	28	30	6	22.8	11.90	0.40
MHGH0200254	1	-DIN6	25	22	30	53.05	57.10	28	30	6	24.8	11.90	0.40
MHGH0200255	2	-DIN6	25	22	36	53.05	57.10	28	56	6	24.8	11.90	0.40
MHGH0200256	1	-DIN6	25	25	36	53.05	57.10	28	30	6	27.8	11.90	0.40
MHGH0200257	2	-DIN6	25	22	35	53.05	57.05	25	40	6	24.8	10.62	0.42
MHGH0200258	2	-DIN6	25	22	30	53.05	57.05	25	60	*	*	10.62	0.45
MHGH0200281	1	-DIN6	28	19	30	59.42	63.40	28	30	6	21.8	13.06	0.40
MHGH0200282	2	-DIN6	28	19	30	59.42	63.40	28	56	6	21.8	13.06	0.40
MHGH0200283	1	-DIN6	28	22	30	59.42	63.40	28	30	6	24.8	13.06	0.40
MHGH0200284	2	-DIN6	28	22	36	59.42	63.40	28	56	6	24.8	13.06	0.40

DAPO POWER GEARS

斜齿齿研齿轮

MHGH-DIN6

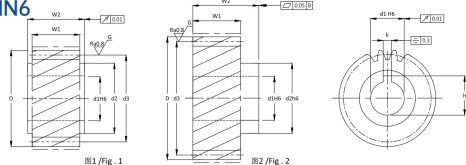


图1 / Fig. 1

图2 / Fig. 2

单位 / Dimension : mm

系列 MHGH-DIN6 斜齿齿研齿轮
质量等级 DIN 6

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 50~55°
硬化处理后齿面研磨

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

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 50~55°
Teeth Ground after Hardening

型号 Code	图 Fig.	DIN	齿 数 No. of Teeth	d1	d2	d3	D	W1	W2	k	h	F _{t0} kN	KG
模数 2 / Module 2													
MHGH0200285	1	-DIN6	28	35	48	59.42	63.40	28	30	10	38.3	13.06	0.40
MHGH0200301	1	-DIN6	30	16	25	63.66	67.70	28	30	5	18.3	13.30	0.70
MHGH0200302	1	-DIN6	30	20	30	63.66	67.70	28	30	6	22.8	13.30	0.70
MHGH0200303	2	-DIN6	30	22	36	63.66	67.70	28	56	6	24.8	13.30	0.70
MHGH0200304	1	-DIN6	30	25	36	63.66	67.70	28	30	8	28.3	13.30	0.70
MHGH0200305	1	-DIN6	30	30	45	63.66	67.70	28	30	8	33.3	13.30	0.70
MHGH0200306	2	-DIN6	30	30	50	63.66	67.70	28	60	8	33.3	13.30	0.70
MHGH0200307	2	-DIN6	30	32	55	63.66	67.70	28	65	10	35.3	13.30	0.70
MHGH0200308	2	-DIN6	30	22	35	63.66	67.66	25	40	6	24.8	11.87	0.61
MHGH0200309	2	-DIN6	30	22	30	63.66	67.66	25	60	*	11.87	0.64	
MHGH0200321	1	-DIN6	32	20	30	67.91	71.90	28	30	6	22.8	13.49	0.70
MHGH0200322	1	-DIN6	32	22	30	67.91	71.90	28	30	6	24.8	13.49	0.70
MHGH0200323	2	-DIN6	32	22	36	67.91	71.90	28	56	6	24.8	13.49	0.70
MHGH0200324	1	-DIN6	32	25	36	67.91	71.90	28	30	8	28.3	13.49	0.70
MHGH0200325	1	-DIN6	32	35	48	67.91	71.90	28	30	10	38.3	13.49	0.70
MHGH0200361	1	-DIN6	36	35	48	76.39	80.40	28	30	10	38.3	13.84	0.80
MHGH0200391	2	-DIN6	39	32	55	82.76	86.80	28	65	10	35.3	14.06	1.40
MHGH0200401	1	-DIN6	40	35	48	84.88	88.90	28	30	10	38.3	14.13	1.20

模数 3 / Module 3

MHGH0300181	1	-DIN6	18	25	36	54.00	60.00	28	30	8	28.3	12.51	0.40
MHGH0300201	1	-DIN6	20	25	36	60.00	66.00	28	30	8	28.3	14.00	0.50
MHGH0300202	2	-DIN6	20	25	44	63.66	69.70	28	60	8	28.3	14.00	1.10
MHGH0300203	1	-DIN6	20	30	45	63.66	69.70	28	30	8	33.3	14.00	0.50
MHGH0300204	2	-DIN6	20	30	50	63.66	69.70	28	60	8	33.3	14.00	1.10
MHGH0300205	2	-DIN6	20	32	55	63.66	69.70	28	65	10	35.3	14.00	1.20
MHGH0300206	1	-DIN6	20	35	48	63.66	69.70	28	30	10	38.3	14.00	0.50
MHGH0300207	2	-DIN6	20	22	35	63.66	69.66	30	40	6	24.8	15.06	0.69
MHGH0300208	2	-DIN6	20	22	30	63.66	69.66	30	65	*	15.06	0.74	
MHGH0300209	2	-DIN6	20	32	50	63.66	69.66	30	60	10	35.3	15.06	0.81
MHGH0300210	2	-DIN6	20	32	44	63.66	69.66	30	70	*	15.06	0.78	
MHGH0300221	1	-DIN6	22	25	36	70.03	76.00	28	30	8	28.3	17.65	0.60
MHGH0300222	1	-DIN6	22	30	45	70.03	76.00	28	30	8	33.3	17.65	0.60
MHGH0300223	2	-DIN6	22	32	55	70.03	76.00	28	65	10	35.3	17.65	1.40
MHGH0300224	1	-DIN6	22	35	48	70.03	76.00	28	30	10	38.3	17.65	0.60
MHGH0300225	2	-DIN6	22	40	62	70.03	76.00	28	65	12	43.3	17.65	1.40
MHGH0300226	2	-DIN6	22	22	35	70.03	76.03	30	40	6	24.8	16.68	0.85
MHGH0300227	2	-DIN6	22	22	30	70.03	76.03	30	65	*	16.68	0.90	
MHGH0300228	2	-DIN6	22	32	50	70.03	76.03	30	60	10	35.3	16.68	0.96
MHGH0300229	2	-DIN6	22	32	44	70.03	76.03	30	70	*	16.68	0.93	
MHGH0300251	2	-DIN6	25	22	36	79.58	85.60	28	56	6	24.8	19.01	1.50
MHGH0300252	1	-DIN6	25	25	36	79.58	85.60	28	30	8	28.3	19.01	0.80
MHGH0300253	2	-DIN6	25	25	44	79.58	85.60	28	60	8	28.3	19.01	1.60
MHGH0300254	1	-DIN6	25	30	45	79.58	85.60	28	30	8	33.3	19.01	0.80
MHGH0300255	2	-DIN6	25	30	50	79.58	85.60	28	60	8	33.3	19.01	1.60

DAPO POWER GEARS

斜齿齿研齿轮

MHGH-DIN6

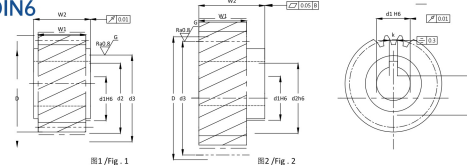


图1 / Fig. 1

图2 / Fig. 2

单位 / Dimension : mm

系列 MHGH-DIN6 斜齿齿研齿轮
质量等级 DIN 6

材料 SCM415/SCM440
左旋角 19°31'42"
硬度 HRC 50~55°
硬化处理后齿面研磨

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

Material SCM415/SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 50~55°
Teeth Ground after Hardening

型号 Code	图 Fig.	DIN	齿 数 No. of Teeth	d1	d2	d3	D	W1	W2	k	h	F _{t0} kN	KG
模数 3 / Module 3													
MHGH0300256	2	-DIN6	25	32	55	79.58	85.60	28	65	10	35.3	19.01	1.80
MHGH0300257	1	-DIN6	25	35	48	79.58	85.60	28	30	10	38.3	19.01	0.80
MHGH0300258	2	-DIN6	25	35	55	79.58	85.60	28	65	10	38.3	19.01	1.80
MHGH0300259	1	-DIN6	25	40	70	79.58	85.60	28	50	12	43.3	19.01	1.40
MHGH03002510	2	-DIN6	25	40	62	79.58	85.60	28	65	12	43.3	19.01	1.80
MHGH03002511	2	-DIN6	25	22	35	79.58	85.58	30	40	6	24.8	20.37	1.11
MHGH03002512	2	-DIN6	25	22	30	79.58	85.58	30	65	*	20.37	1.17	
MHGH03002513	2	-DIN6	25	32	50	79.58	85.58	30	60	10	35.3	20.37	1.23
MHGH03002514	2	-DIN6	25	32	44	79.58	85.58	30	70	*	20.37	1.20	
MHGH0300281	2	-DIN6	28	32	55	89.13	95.10	28	65	10	35.3	19.59	2.20
MHGH0300282	2	-DIN6	28	40	62	89.13	95.10	28	65	12	43.3	19.59	2.20
MHGH0300301	2	-DIN6	30	22	35	95.49	101.49	30	40	6	24.8	21.37	1.62
MHGH0300302	2	-DIN6	30	22	30	95.49	101.49	30	65	*	21.37	1.67	
MHGH0300303	2	-DIN6	30	32	50	95.49	101.49	30	60	10	35.3	21.37	1.74
MHGH0300304	2	-DIN6	30	32	44	95.49	101.49	30	70	*	21.37	1.71	
MHGH0300321	2	-DIN6	32	32	55	101.86	107.85	28	65	10	35.3	20.24	2.80
MHGH0300322	2	-DIN6	32	40	62	101.86	107.85	28	65	12	43.3	20.24	2.80
模数 4 / Module 4													
MHGH0400151	1	-DIN6	15	35	52	63.66	71.70	40	50	10	38.3	17.53	0.80
MHGH0400181	2	-DIN6	18	32	55	76.39	84.40	40	75	10	35.3	23.92	1.60
MHGH0400201	1	-DIN6	20	35	52	84.88	92.90	40	50	10	38.3	26.78	1.30
MHGH0400202	1	-DIN6	20	45	65	84.88	92.90	40	50	14	48.8	26.78	1.30
MHGH0400203	2	-DIN6	20	32	50	84.88	92.88	40	60	10	35.3	26.78	1.67
MHGH0400204	2	-DIN6	20	32	44	84.88	92.88	40	80	*	26.78	1.73	
MHGH0400205	2	-DIN6	20	40	60	84.88	92.88	40	85	12	43.3	26.78	1.89
MHGH0400206	2	-DIN6	20	40	50	84.88	92.88	40	85	*	26.78	1.58	
MHGH0400211	2	-DIN6	21	32	55	89.13	97.10	40	75	10	35.3	28.23	2.20
MHGH0400212	2	-DIN6	21	35	55	89.13	97.10	40	75	10	38.3	28.23	2.20
MHGH0400213	2	-DIN6	21	40	62	89.13	97.10	40	75	12	43.3	28.23	2.20
MHGH0400214	2	-DIN6	21	45	68	89.13	97.10	40	75	14	48.8	28.23	2.20
MHGH0400221	1	-DIN6	22	35	52	93.37	101.40	40	50	10	38.3	29.66	1.60
MHGH0400222	1	-DIN6	22	45	65	93.37	101.40	40	50	14	48.8	29.66	1.60
MHGH0400223	2	-DIN6	22	32	50	93.37	101.37	40	60	10	35.3	29.66	2.04
MHGH0400224	2	-DIN6	22	32	44	93.37	101.37	40	80	*	29.66	2.10	
MHGH0400225	2	-DIN6	22	40	60	93.37	101.37	40	85	12	43.3	29.66	2.26
MHGH0400226	2	-DIN6	22	40	50	93.37	101.37	40	85	*	29.66	1.95	
MHGH0400241	2	-DIN6	24	32	55	101.86	109.90	40	75	10	35.3	35.79	2.80
MHGH0400242	2	-DIN6	24	35	55	101.86	109.90	40	75	10	38.3	35.79	2.80
MHGH0400243	2	-DIN6	24	40	62	101.86	109.90	40	75	12	43.3	35.79	2.80
MHGH0400244	2	-DIN6	24	45	68	101.86	109.90	40	75	14	48.8	35.79	2.80
MHGH0400245	2	-DIN6	24	55	80	101.86	109.90	40	80	16	59.5	35.79	3.00

DAPO POWER GEARS

斜齿齿研齿轮

MHGH-DIN6

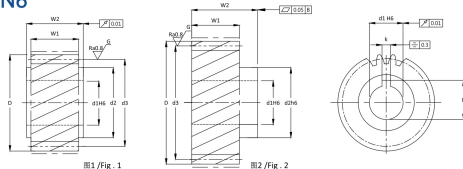


图1 / Fig. 1

图2 / Fig. 2

单位 / Dimension : mm

系列 MHGH-DIN6 斜齿齿研齿轮
质量等级 DIN 6

材料 SCM415 / SCM440
左旋角 19°31'42"
硬度 HRC 50~55°
硬化处理后齿面研磨

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

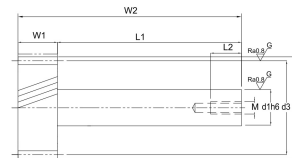
Material SCM415 / SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 50~55°
Teeth Ground after Hardening

型号 Code	图 Fig.	DIN	齿 No. of Teeth	d1	d2	d3	D	W1	W2	k	h	F _{ts} kN	KG
模数 4 / Module 4													
MHGH0400253	2	-DIN6	25	55	80	106.10	114.10	40	80	16	59.3	36.22	3.20
MHGH0400254	2	-DIN6	25	32	50	106.10	114.10	40	60	10	35.3	36.22	2.66
MHGH0400255	2	-DIN6	25	32	44	106.10	114.10	40	80	*	*	36.22	2.72
MHGH0400256	2	-DIN6	25	40	60	106.10	114.10	40	85	12	43.3	36.22	2.88
MHGH0400257	2	-DIN6	25	40	50	106.10	114.10	40	85	*	*	36.22	2.58
MHGH0400301	2	-DIN6	30	32	50	127.32	135.32	40	60	10	35.3	38.00	3.88
MHGH0400302	2	-DIN6	30	32	44	127.32	135.32	40	80	10	*	38.00	3.94
MHGH0400303	2	-DIN6	30	40	60	127.32	135.32	40	85	12	43.3	38.00	4.10
MHGH0400304	2	-DIN6	30	40	50	127.32	135.32	40	85	*	*	38.00	3.80
模数 5 / Module 5													
MHGH0500181	2	-DIN6	18	45	68	95.49	105.50	50	85	14	48.8	37.38	2.90
MHGH0500201	2	-DIN6	20	40	60	106.10	116.10	50	85	12	43.3	41.84	3.34
MHGH0500202	2	-DIN6	20	40	50	106.10	116.10	50	90	*	*	41.84	3.16
MHGH0500221	2	-DIN6	22	40	60	116.71	126.71	50	85	12	43.3	46.34	4.06
MHGH0500222	2	-DIN6	22	40	50	116.71	126.71	50	90	*	*	46.34	3.88
MHGH0500241	2	-DIN6	24	45	68	127.32	137.30	50	85	14	48.8	55.93	4.90
MHGH0500242	2	-DIN6	24	55	80	127.32	137.30	50	90	16	59.3	55.93	5.20
MHGH0500243	2	-DIN6	24	75	110	127.32	137.30	50	110	20	79.9	55.93	6.40
MHGH0500251	2	-DIN6	25	40	60	132.63	142.63	50	85	12	43.3	56.58	5.28
MHGH0500252	2	-DIN6	25	40	50	132.63	142.63	50	90	*	*	56.58	5.10
MHGH0500301	2	-DIN6	30	40	60	159.16	169.16	50	85	12	43.3	59.37	7.66
MHGH0500302	2	-DIN6	30	40	50	159.16	169.16	50	90	*	*	59.37	7.48
模数 6 / Module 6													
MHGH0600201	2	-DIN6	20	55	80	127.32	139.30	60	100	16	59.3	60.26	6.00
MHGH0600202	2	-DIN6	20	75	110	127.32	139.30	60	120	20	79.9	60.26	7.20
MHGH0600203	2	-DIN6	20	80	127.32	139.32	60	85	16	59.3	60.26	5.28	
MHGH0600204	2	-DIN6	20	55	68	127.32	139.32	60	105	*	*	60.26	5.25
MHGH0600221	2	-DIN6	22	55	80	140.06	152.06	60	85	16	59.3	66.74	6.53
MHGH0600222	2	-DIN6	22	55	68	140.06	152.06	60	105	*	*	66.74	6.50
MHGH0600251	2	-DIN6	25	55	80	159.16	171.16	60	100	16	59.3	81.49	9.00
MHGH0600252	2	-DIN6	25	75	110	159.16	171.20	60	120	20	79.9	81.49	10.80
MHGH0600253	2	-DIN6	25	55	80	159.16	171.16	60	85	16	59.3	81.49	8.64
MHGH0600254	2	-DIN6	25	55	68	159.16	171.16	60	105	*	*	81.49	8.61
MHGH0600301	2	-DIN6	30	55	80	190.99	212.99	60	85	16	59.3	85.49	12.74
MHGH0600302	2	-DIN6	30	55	68	190.99	212.99	60	105	*	*	85.49	12.71
模数 8 / Module 8													
MHGH0800181	2	-DIN6	18	75	110	152.79	168.80	80	140	20	79.9	95.68	11.00
MHGH0800202	2	-DIN6	20	85	125	169.80	185.80	80	145	22	90.4	107.12	14.00
模数 10 / Module 10													
MHGH1000201	2	-DIN6	20	85	125	212.21	232.20	100	165	22	90.4	167.38	26.00

DAPO POWER GEARS

斜齿齿研齿轮轴

MHGH-L-DIN6



单位 / Dimension : mm

系列 MHGH-L-DIN6 斜齿齿研齿轮轴
质量等级 DIN 6

材料 SCM415 / SCM440
左旋角 19°31'42"
硬度 HRC 50~55°
硬化处理后齿面研磨

Series MHGH-L-DIN6 Helical Teeth Ground Pinion Shaft
Quality Grade DIN 6

Material SCM415 / SCM440
Left Hand Angle 19°31'42"
Hardness: HRC 50~55°
Teeth Ground after Hardening

型号 Code	DIN	模数 Module	齿数 No. of Teeth	d1	d3	D	W1	W2	L1	L2	Hole	F _{ts} kN	KG
模数 1.5 / Module 1.5													
MHGH-L-0150201	-DIN6	1.5	20	20h6	31.831	34.831	11.5	110	98.5	19	M8	2.96	0.5
MHGH-L-0150202	-DIN6	1.5	20	20h6	31.831	34.831	14.5	90	75.5	19	M8	3.64	0.6
模数 2.5 / Module 2.5													
MHGH-L-0250161	-DIN6	2.5	16	25h6	42.441	47.441	19.5	108	88.5	22	M10	5.86	0.6
MHGH-L-0250181	-DIN6	2.5	18	25h6	47.747	52.747	19.5	108	88.5	22	M10	6.63	0.7
模数 3 / Module 3													
MHGH-L-0300201	-DIN6	3	20	40h6	63.662	69.662	29.5	162	132.5	28	M12	14.81	1.9
MHGH-L-0300281	-DIN6	3	28	40h6	89.127	95.127	29.5	162	132.5	28	M12	20.64	2.0

(三) 装配

3.1. 装配操作前，检查与准备

3.1.1 安装齿条前请先确实检查齿条外包装的完整性，并在拆封齿条包装时，请小心拆封，以避免齿条损伤。

3.1.2 安装齿条前请先确认齿条的规格，并详细检查安装时所需的安装器具。

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.



图 1 / Fig.1

3.1.3 安装齿条前，须确保底座安装靠面的垂直度及平行度需在要求内，一般要求平行度为 $\leq 0.02\text{mm}$ ，垂直度为 $\leq 0.02\text{mm}$ ，如图 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.

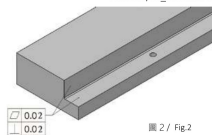


图 2 / Fig.2

3.1.4 确实检查齿条及底座安装的承靠面的清洁及完整性，避免齿条及底座的接触面有任何损伤或有残余毛屑。

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 安装齿条底部时，需注意干涉问题如图 3 箭头所示。

3.1.5 The chamfering surface of installation bearing surface bottom have to be aware of the question as Fig.3 noted.

注意 齿条啮合尺寸应符合本公司要求的范围（请参考表 1）。
底座安装承靠面的倒角面建议值最大不得超过 0.5mm。

Attention The rack chamfer angle should apply with our standards (as chart 1).
The recommended chamfer value of bearing surface of installation base should not exceed 0.5 mm at maximum.

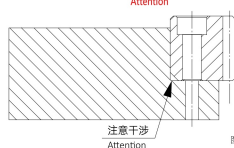
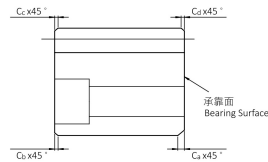


图 3 / Fig.3



单位 / Unit : mm

Rack	C _a	C _b	C _c	C _d
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	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 齿条的定位销孔是专门提供齿条的重叠安装时的快速定位使用，若非重叠安装，则不需要安装定位销孔。

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. 装配步骤 A- 单齿条装配

3.2.1 将齿条放于枕木上，将检测销棒放置齿条的齿谷内，使用外径分离卡检测跨齿值，如图 4。

3.2. Assembly Process A- Single Rack Assembly

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

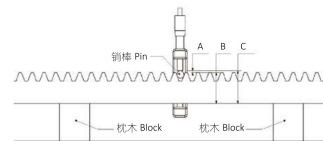


图 4 / Fig.4

★齿条安装前，请参考图 4 的测量方式，确定齿条的跨齿值在精度等级内。

★ 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.

跨齿值计算公式：

跨齿值 C= 数值 A + 齿条总高度 B

※ 检测销棒数值请参考表 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 检测销棒建议直径公差于 $0 \pm 0.001\text{mm}$ 的检测为最佳标准。



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

单位 / Unit : mm

模数 Module	数值 Value	检测销棒 Inspection Pin	齿距 Pitch	
			斜齿 Helical (19°31'42")	直齿 Straight
M1.0	0.766	φ2	3.333	3.142
M1.5	1.149	φ3	5.000	4.712
M2.0	1.532	φ4	6.667	6.283
M3.0	2.298	φ6	10.000	9.425
M4.0	3.064	φ8	13.333	12.566
M5.0	3.830	φ10	16.667	15.708
M6.0	4.596	φ12	20.000	18.850
M8.0	6.128	φ16	26.667	25.133
M10.0	7.659	φ20	33.333	31.416

表 2 / Table 2

3.2.2 齿条置于基座承靠面上，对齐螺丝孔距，微拧螺丝至沉头螺丝孔接触面，如图 5 所示。

3.2 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.



图 5 / Fig.5

3.2.3 将 C 型夹钳垫上软质垫块，再将齿条头尾两端使用 C 型夹钳固定，中间平均固定全部齿条与基座，让齿条与基座承靠面完全贴合。（如图 6 所示）

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.



图 6 / Fig.6

3.2.4 将检测销棒平均放置于齿条前后五个检测点，使用高度规测量检测销棒的最高点，检测数值须与步骤 2.1 所得之数值一致，如检测出的数值不同，则将 C 型夹钳关系，调整至与步骤 2.1 测量量出的数值一致即可，如图 7。



图 7 / Fig.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.

3.2.5 将螺丝（螺栓）由中间端开始固定再往两侧拧紧。

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

3.2.6 将 C 型夹钳与软质垫块移除。

3.2.6 Remove the C-type clamp and soft pads.

3.3. 装配步骤 B- 多支齿条装配步骤

3.3.1 两支或两支以上齿条的装配，装配步骤依照装配步骤 A- 单支齿条装配的方式装配，相接处需增加相接辅助器具反向齿规，作为衔接咬合之标准，以防止齿距误差过大（如图 8）。

3.3. Assembly Process B- Multiple Racks Assembly

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)

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)

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)



三根齿条以上装配，需由基座中央开始向两侧衔接装配。



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

3.3.1 高度规测量检测销棒最高点的数值，量测的数值须与前面步骤 3.2.1 用外径分厘卡检测之数值相同。

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 相接处需使用相接辅助器具反向齿规，作为衔接咬合之标准，以防止齿距误差过大，如图 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)



图 8 / Fig.8

3.3.3 微拧螺丝后撤掉齿规，如图 9

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



图 9 / Fig.9

3.3.4 检测销棒放置于 A、B、C 三点做检测，如图 10。

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

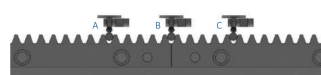


图 10 / Fig.10

3.3.5 使用高度规测量检测销棒最高点的数值，使其三点检测销棒最高点数值与前面步骤 1 之数值相同，若中间检测销棒的最高点数值与左右两支检测销棒最高点数值不同，可左右微调相接处齿条，得到三点检测销棒最高点之相同数值，如图 11。

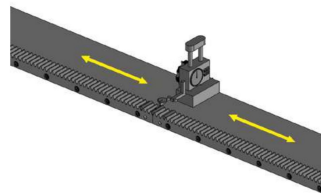


图 11 / Fig.11

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. Fig.11.

3.3.6 量测正确的检测销棒最高点数值后，使用 C 型夹钳垫上软质垫块，将齿条固定于基座，再使用扭力扳手依序固定螺丝锁紧，如图 12。

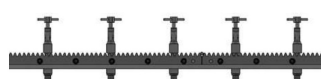


图 12 / Fig.12

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 螺丝锁紧后移除 C 型夹钳、软质垫块，完成装配，如图 13。



图 13 / Fig.13

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

螺丝规格 Screw Spec.	六角扳手 Hex Wrench (mm)	强度 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 螺丝扭力值 / Table 3. Screw Torque

3.4. 装配完成检查

3.4.1 清洁附着于齿面上防锈油。

3.4.2 于齿面上涂抹有色涂料如：黄丹、红丹或蓝丹亦可（请勿涂抹无法清除之涂料）。

3.4.3 于齿条运作范围内，齿轮反复来回移动啮合。

3.4.4 观看齿面涂抹有色涂料的脱落情况，如图 14 所示。

3.4.5 齿面啮合状况正确，则清除附着于齿面的有色涂料，裸露部分请涂抹防锈油脂，若非正确请调整至正确状况。

3.5. 运行前注意事项

3.5.1 齿条装配无误，齿面啮合情况正确。

3.5.2 齿条与齿轮啮合面须有适合之润滑油脂。

3.5.3 运行范围里确定无人员，避免造成伤害。

(四) 保养

4.1 依照设备运作情况制定保养计划表。

4.2 润滑油脂请选用适当之油脂，依照选用之油脂决定润滑之设备。

4.3 保养周期视磨损情形增长或缩短计划。

4.4 齿条若磨损严重或崩裂，请更换齿条，避免影响运行精度效能。

※ 齿条拆卸与保养请由经过训练的人员进行处理。。

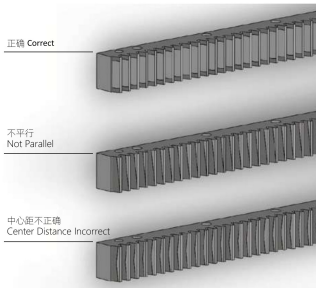


图 14 / Fig.14

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 needs lubricant 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 the equipment 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.