

河北义迪进出口贸易有限公司

HEBEI YIDI IMPORT AND EXPORT TRADING CO.,LTD

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Province

►河北义迪进出口贸易有限公司

HEBEI YIDI IMPORT AND EXPORT TRADING CO.,LTD

产品手册

Product manual



2024



ABOUT US

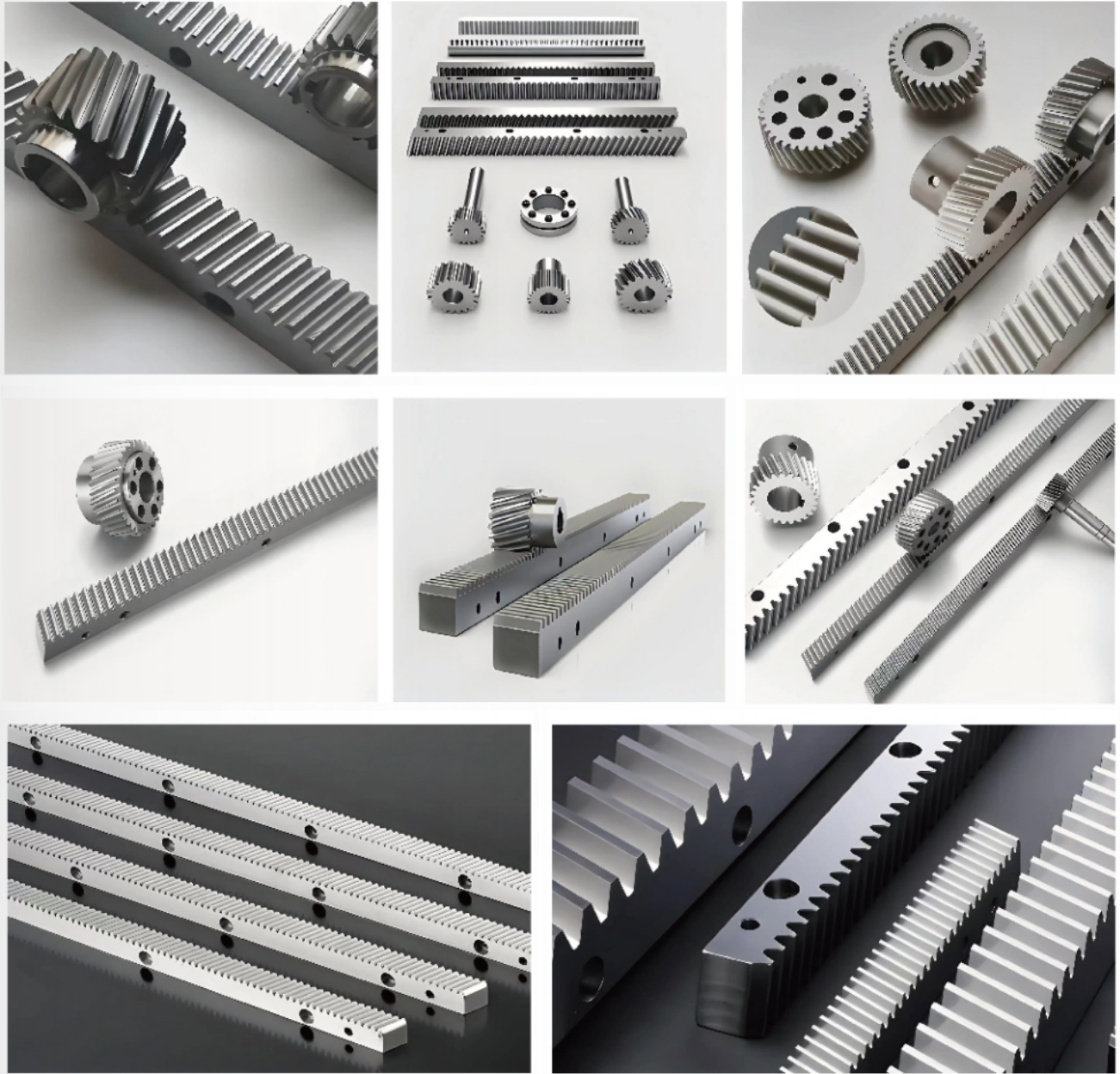
公司简介

河北义迪进出口贸易有限公司成立于2019年，公司位于河北石家庄，是一家专业从事齿条、齿轮、齿轴、涡轮蜗杆生产销售为一体的企业，本公司主要销售各种大小规格高精度齿条齿轮、蜗轮蜗杆、非标类等自动化传动件，公司拥有数台高精度数控磨齿机，高精度数控平面磨床，高精度数控铣床、高精度数控车床、线切割、电火花、倒角机等高端设备，公司团队凭借多年的生产经验及先进的设备齿轮和齿轴精度可以达到国际标准DIN4级标准，齿条精度可以达到国际标准DIN5级标准，凭借产品超高的稳定性、超高的精度性及超快便捷的服务，获得了行业里客户的一致好评，齿轮齿条广泛应用于：新能源汽车及锂电行业的流水线、光伏制造、3C半导体、大型立体式仓储、医疗领域、玻璃设备、大型机床加工中心、切管机、弯管机、冶金、船舶、工程机械等各个领域。

HEBEI YIDI IMPORT AND EXPORT TRADING CO.,LTD was established in 2019 and is located in shijiazhuang city. It is a Professional enterprise engaged in the production and sales of racks, gears, shafts, and turbine worms. The company mainly sells various sizes of high-precision rack and pinion gears, worm gears, non-standard automatic transmission parts, etc. The company has several high-precision CNC gear grinding machines, high-precision CNC flat grinders, high-precision CNC milling machines, high-precision CNC lathes, wire cutting, spark discharge, chamfering machines, and other high-end equipment. With years of production experience and advanced equipment, the company's team can achieve international standard DIN4 gear and rack accuracy can reach international standard DIN5. Standard, with its high stability, Precision, and fast and convenient service, it has received unanimous Praise from customers in the industry. Gears and racks are widely used in various fields such as assembly lines in new energy vehicles and lithium battery industries, photovoltaic manufacturing, 3C semiconductors large-scale three-dimensional warehousing, medical fields glass equipment, large machine tool processing centers, pipe cutting machines, pipe bending machines, metallurgy, ships, engineering machinery, etc.

PRODUCTS

产品中心



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精度等级对照表 Quality Grade Comparison Table

标准 Standard	精度等级 Quality Grade											
GB			3	4	5	6	7	8	9			
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

应用 Application

精度 Quality	模数 Module	应用 Application
DIN5	1.5~10	高阶工具机 High level machine tool 升降轴 Lifting shaft
DIN6	1.5~10	龙门式加工中心 Gantry type machining center 工具机 Machine tool 水刀/雷射/电泵切割机 Water jet cutter/laser/electric pump cutting machine 木工机 Woodworking machinery 线性滑轨结合 Linear slide coupling 弯管机 Pipe bender
DIN8	1.5~10	焊接机 Welding machine 机械手 Manipulator 自动搬运/上下料系统 Automatic handing/loading and unloading system 低负载线性驱动轴 Low load linear drive shaft
DIN10	1.5~10	升降轴 Lifting shaft 自动搬运/上下料系统 Automatic handing/loading and unloading system 机械手 Manipulator 室外运用 Outdoor use 地轨 Robot 7th Axis

齿条说明
RACKS INSTRUCTION

齿条类型 Rack Type	齿条代码 Rack Code	材料 Material	齿面处理 Teeth Treatment	硬度处理 Hardness Treatment
斜齿 Helical 右旋 Right Hand 19°31'42"	CHTGH	DIN5	磨齿 Ground	齿部高频 Teeth induction-hardened HRC50-55
		DIN6		齿部高频 Teeth induction-hardened HRC55-60
	CHTMQ	DIN8	铣齿 Milled	调质 Quenched and tempered HRC20-25
				-
	CHTMN			
	CHTMN	DIN10		齿部高频 Teeth induction-hardened HRC50-55
直齿 Straight	CSTGH	DIN5	磨齿 Ground	齿部高频 Teeth induction-hardened HRC50-55
		DIN6		齿部高频 Teeth induction hardened HRC55-60
	CSTMQ	DIN8	铣齿 Milled	调质 Quenched and tempered HRC20-25
				-
	CSTMN			
	CSTMH	DIN10		齿部高频 Teeth induction-hardened HRC50-55

齿条型号说明
RACK CODE INSTRUCTION



齿面处理 Teeth Treatment	类型 Teeth Type	硬度处理 Hardness		长度 Length	精度等级 Accuracy
G=齿研 Ground M=精铣 Milled	H=斜齿 Helical RH19°31' 42" S=直齿 Straight	N=无硬化 Soft H:齿部高频 Induction-hardened Q=调制 Quenched and tempered	015=m1.5 030=m3 040=m4 050=m5 100=m10	050=500mm 100=1000mm 150=1500mm 200=2000mm	DIN5 DIN6 DIN8 DIN10

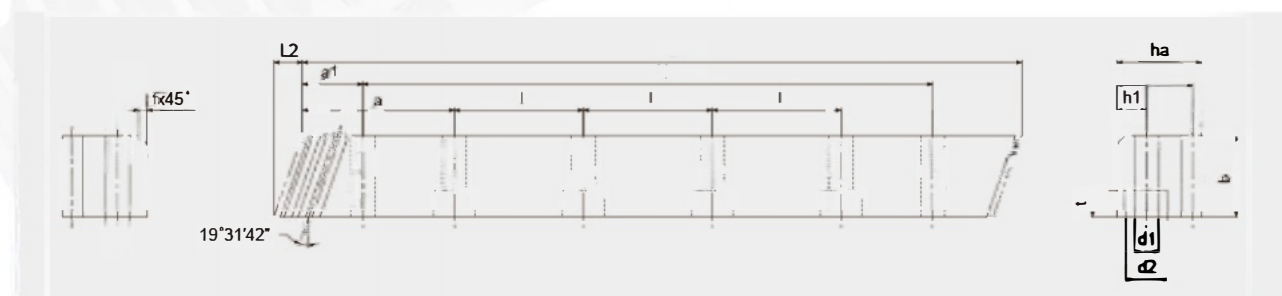
斜齿磨齿齿条

HELICAL TEETH GROUND RACKS

SLA-CHTGH-DIN5

规格 Specifications

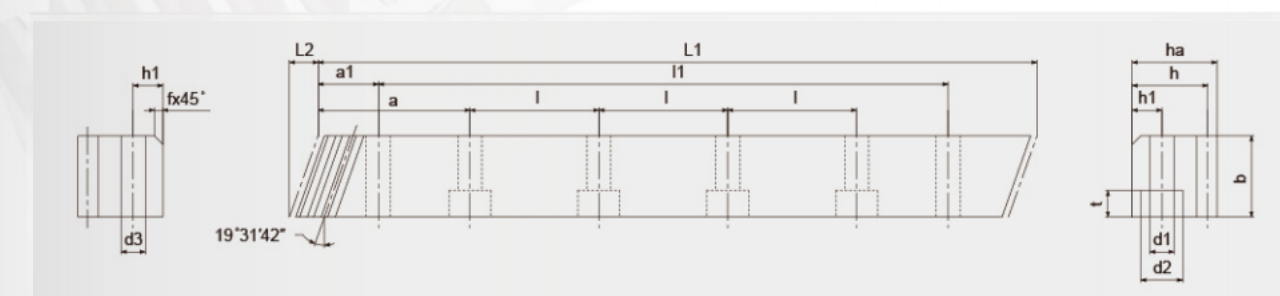
精度等级 Qu lity	DIN5h22	齿形标准 Gear Standard	DIN867
材料 Material	C45	压力角 Pressur Angle	20°
齿面处理 Teeth Treatment	磨齿 Ground	右旋角 Right Helix Angle	19°31'42"
热处理方式 Heat treatment	齿部高频 Induction hardened HRC50-55		



模块 Module	理论长 L1	L2	b	ha	h	f	a	l	h1	d1	d2	t	a1	l1	d3				
1.5	500	7.1	100	20	20	18.5	1	62.5	125	4	8	7	11	7	31.7	436.6	5.7	1.3	SLA-CHTGH-015-050-DIN5
1.5	1000	7.1	200	20	20	18.5	1	62.5	125	8	8	7	11	7	31.7	936.6	5.7	2.6	SLA-CHTGH-015-100-DIN5
2	500	8.5	75	24	24	22	2	62.5	125	4	8	7	11	7	31.7	436.6	5.7	2.1	SLA-CHTGH-020-050-DIN5
2	1000	8.5	150	24	24	22	2	62.5	125	8	8	7	11	7	31.7	936.6	5.7	4.1	SLA-CHTGH-020-100-DIN5
3	500	10.3	50	29	29	26	2	62.5	125	4	9	10	15	9	35	430	7.7	2.9	SLA-CHTGH-030-050-DIN5
3	1000	10.3	100	29	29	26	2	62.5	125	8	9	10	15	9	35	930	7.7	5.9	SLA-CHTGH-030-100-DIN5
4	506.66	13.8	38	39	39	35	3	62.5	125	4	12	10	15	9	33.3	433	7.7	5.4	SLA-CHTGH-040-050-DIN5
4	1000	13.8	75	39	39	35	3	62.5	125	8	12	10	15	9	33.3	933.4	7.7	10.7	SLA-CHTGH-040-100-DIN5
5	500	17.4	30	49	39	34	3	62.5	125	4	12	14	20	13	37.5	425	11.7	6.5	SLA-CHTGH-050-050-DIN5
5	1000	17.4	60	49	39	34	3	62.5	125	8	12	14	20	13	37.5	925	11.7	13	SLA-CHTGH-050-100-DIN5
6	500	20.9	25	59	49	43	3	62.5	125	4	16	18	26	17	37.5	425	15.7	9.9	SLA-CHTGH-060-050-DIN5
6	1000	20.9	50	59	49	43	3	62.5	125	8	16	18	26	17	37.5	925	15.7	19.8	SLA-CHTGH-060-100-DIN5
8	480	28	18	79	79	71	3	60	120	4	25	22	33	21	120	240	19.7	21	SLA-CHTGH-080-050-DIN5
8	960	28	36	79	79	71	3	60	120	8	25	22	33	21	120	720	19.7	42.5	SLA-CHTGH-080-100-DIN5
10	500	35.1	15	99	99	89	3	62.5	125	4	32	33	48	32	125	250	19.7	34.8	SLA-CHTGH-100-050-DIN5
10	1000	35.1	30	99	99	89	3	62.5	125	8	32	33	48	32	125	750	19.7	69.6	SLA-CHTGH-100-100-DIN5

规格 Specifications

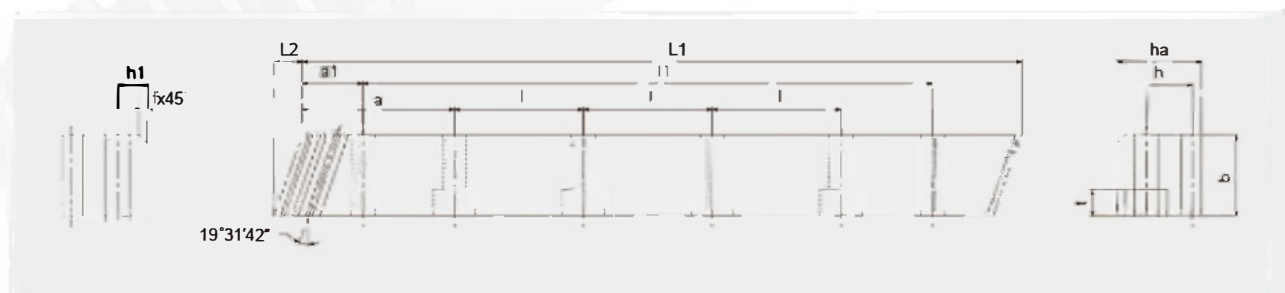
精度等级 Quality	DIN5h22	齿形标准 Gear Standard	DIN867
材料 Material	42CrMo	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	齿 Ground	右旋角 Right Hand Angle	19°31'42"
热处理方式 Heat treatment	齿部高频 Induction-hardened HRC55-60		



模数 Module		L2	齿数 Z	b	ha	h	f	a	l		h1	d1	d2	t	a1	l1	d3		
1.5	500	7.1	100	20	20	18.5	1	62.5	125	4	8	7	11	7	31.7	436.6	5.7	1.3	SLA-CHTGH-015-050-DIN5-42
1.5	1000	7.1	200	20	20	18.5	1	62.5	125	8	8	7	11	7	31.7	936.6	5.7	2.6	SLA-CHTGH-015-100-DIN5-42
2	500	8.5	75	24	24	22	2	62.5	125	4	8	7	11	7	31.7	436.6	5.7	2.1	SLA-CHTGH-020-050-DIN5-42
2	1000	8.5	150	24	24	22	2	62.5	125	8	8	7	11	7	31.7	936.6	5.7	4.1	SLA-CHTGH-020-100-DIN5-42
3	500	10.3	50	29	29	26	2	62.5	125	4	9	10	15	9	35	430	7.7	2.9	SLA-CHTGH-030-050-DIN5-42
3	1000	10.3	100	29	29	26	2	62.5	125	8	9	10	15	9	35	930	7.7	5.9	SLA-CHTGH-030-100-DIN5-42
4	506.66	13.8	38	39	39	35	3	62.5	125	4	12	10	15	9	33.3	433	7.7	5.4	SLA-CHTGH-040-050-DIN5-42
4	1000	13.8	75	39	39	35	3	62.5	125	8	12	10	15	9	33.3	933.4	7.7	10.7	SLA-CHTGH-040-100-DIN5-42
5	500	17.4	30	49	39	34	3	62.5	125	4	12	14	20	13	37.5	425	11.7	6.5	SLA-CHTGH-050-050-DIN5-42
5	1000	17.4	60	49	39	34	3	62.5	125	8	12	14	20	13	37.5	925	11.7	13	SLA-CHTGH-050-100-DIN5-42
6	500	20.9	25	59	49	43	3	62.5	125	4	16	18	26	17	37.5	425	15.7	9.9	SLA-CHTGH-060-050-DIN5-42
6	1000	20.9	50	59	49	43	3	62.5	125	8	16	18	26	17	37.5	925	15.7	19.8	SLA-CHTGH-060-100-DIN5-42
8	480	28	18	79	79	71	3	60	120	4	25	22	33	21	120	240	19.7	21	SLA-CHTGH-080-050-DIN5-42
8	960	28	36	79	79	71	3	60	120	8	25	22	33	21	120	720	19.7	42.5	SLA-CHTGH-080-100-DIN5-42
10	500	35.1	15	99	99	89	3	62.5	125	4	32	33	48	32	125	250	19.7	34.8	SLA-CHTGH-100-050-DIN5-42
10	1000	35.1	30	99	99	89	3	62.5	125	8	32	33	48	32	125	750	19.7	69.6	SLA-CHTGH-100-100-DIN5-42

SLA-CHTGH-DIN6

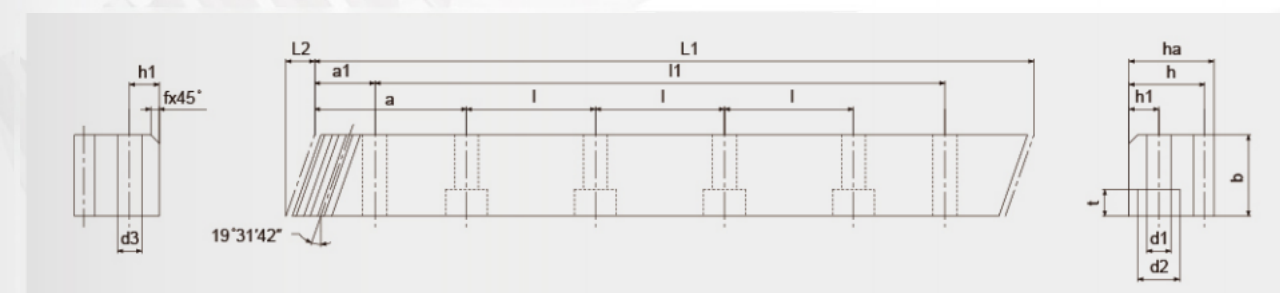
精度等级 Qu lity	DIN6h25	齿形标准 Gear Standard	DIN867
材料 Mate ial	C45	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	磨齿 Ground	右旋角 Right Helix Angle	19°31'42"
热处理方式 Heat treatment	齿部高频 Induction hardening HRC50-55		



模数 Module		L2		b	ha	h	f	a	l		h1	d1	d2	t	a1	l1	d3		
1.5	500	7.1	100	20	20	18.5	1	62.5	125	4	8	7	11	7	31.7	436.6	5.7	1.3	SLA-CHTGH-015-050
1.5	1000	7.1	200	20	20	18.5	1	62.5	125	8	8	7	11	7	31.7	936.6	5.7	2.6	SLA-CHTGH-015-100
2	500	8.5	75	24	24	22	2	62.5	125	4	8	7	11	7	31.7	436.6	5.7	2.1	SLA-CHTGH-020-050
2	1000	8.5	150	24	24	22	2	62.5	125	8	8	7	11	7	31.7	936.6	5.7	4.1	SLA-CHTGH-020-100
3	500	10.3	50	29	29	26	2	62.5	125	4	9	10	15	9	35	430	7.7	2.9	SLA-CHTGH-030-050
3	1000	10.3	100	29	29	26	2	62.5	125	8	9	10	15	9	35	930	7.7	5.9	SLA-CHTGH-030-100
4	506.66	13.8	38	39	39	35	3	62.5	125	4	12	10	15	9	33.3	433	7.7	5.4	SLA-CHTGH-040-050
4	1000	13.8	75	39	39	35	3	62.5	125	8	12	10	15	9	33.3	933.4	7.7	10.7	SLA-CHTGH-040-100
4	1000	13.8	75	39	39	35	3	62.5	125	8	12	14	20	13	33.3	933.4	11.7	10.7	SLA-CHTGH-040-100-M1
5	500	17.4	30	49	39	34	3	62.5	125	4	12	14	20	13	37.5	425	11.7	6.5	SLA-CHTGH-050-050
5	1000	17.4	60	49	39	34	3	62.5	125	8	12	14	20	13	37.5	925	11.7	13	SLA-CHTGH-050-100
6	500	20.9	25	59	49	43	3	62.5	125	4	16	18	26	17	37.5	425	15.7	9.9	SLA-CHTGH-060-050
6	1000	20.9	50	59	49	43	3	62.5	125	8	16	18	26	17	37.5	925	15.7	19.8	SLA-CHTGH-060-100
8	480	28	18	79	79	71	3	60	120	4	25	22	33	21	120	240	19.7	21	SLA-CHTGH-080-050
8	960	28	36	79	79	71	3	60	120	8	25	22	33	21	120	720	19.7	42.5	SLA-CHTGH 080-100
10	500	35.1	15	99	99	89	3	62.5	125	4	32	33	48	32	125	250	19.7	34.8	SLA-CHTGH-100-050
10	1000	35.1	30	99	99	89	3	62.5	125	8	32	33	48	32	125	750	19.7	69.6	SLA-CHTGH-100-100

SLA-CHTGH-DIN6

精度等级 Quality	DIN6h25	齿形标准 Gear Standard	DIN867
材料 Material	42CrMo	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	齿 Ground	右旋角 Right Helix Angle	19°31'42''
热处理方式 Heat treatment	齿部高频 Induction hardened HRC55-60		

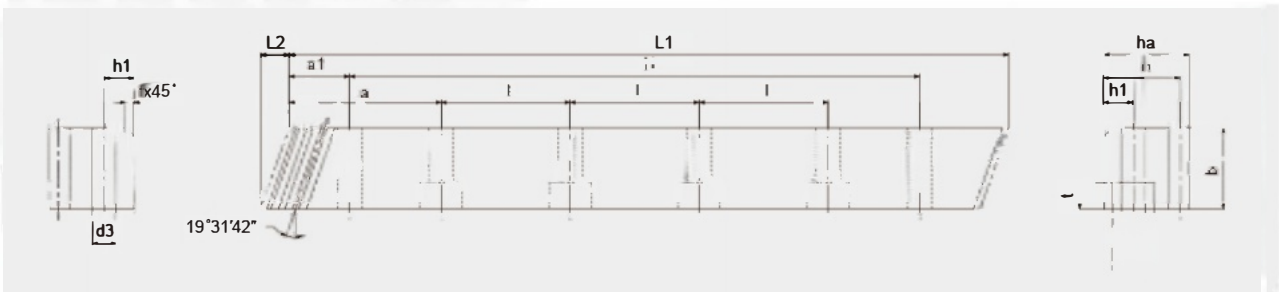


Module	理论长 L1	L2	齿数 Z	b	ha	h	f	a	l	孔数 N	h1	d1	d2	t	a1		d3	u	
1.5	500	7.1	100	20	20	18.5	1	62.5	125	4	8	7	11	7	31.7	436.6	5.7	1.3	SLA-CHTGH-015-050-42
1.5	1000	7.1	200	20	20	18.5	1	62.5	125	8	8	7	11	7	31.7	936.6	5.7	2.6	SLA-CHTGH-015-100-42
2	500	8.5	75	24	24	22	2	62.5	125	4	8	7	11	7	31.7	436.6	5.7	2.1	SLA-CHTGH-020-050-42
2	1000	8.5	150	24	24	22	2	62.5	125	8	8	7	11	7	31.7	936.6	5.7	4.1	SLA-CHTGH-020-100-42
3	500	10.3	50	29	29	26	2	62.5	125	4	9	10	15	9	35	430	7.7	2.9	SLA-CHTGH-030-050-42
3	1000	10.3	100	29	29	26	2	62.5	125	8	9	10	15	9	35	930	7.7	5.9	SLA-CHTGH-030-100-42
4	506.66	13.8	38	39	39	35	3	62.5	125	4	12	10	15	9	33.3	433	7.7	5.4	SLA-CHTGH-040-050-42
4	1000	13.8	75	39	39	35	3	62.5	125	8	12	10	15	9	33.3	933.4	7.7	10.7	SLA-CHTGH-040-100-42
4	1000	13.8	75	39	39	35	3	62.5	125	8	12	14	20	13	33.3	933.4	11.7	10.7	SLA-CHTGH-040-100-M12-42
5	500	17.4	30	49	39	34	3	62.5	125	4	12	14	20	13	37.5	425	11.7	6.5	SLA-CHTGH-050-050-42
5	1000	17.4	60	49	39	34	3	62.5	125	8	12	14	20	13	37.5	925	11.7	13	SLA-CHTGH-050-100-42
6	500	20.9	25	59	49	43	3	62.5	125	4	16	18	26	17	37.5	425	15.7	9.9	SLA-CHTGH-060-050-42
6	1000	20.9	50	59	49	43	3	62.5	125	8	16	18	26	17	37.5	925	15.7	19.8	SLA-CHTGH-060-100-42
8	480	28	18	79	79	71	3	60	120	4	25	22	33	21	120	240	19.7	21	SLA-CHTGH-080-050-42
8	960	28	36	79	79	71	3	60	120	8	25	22	33	21	120	720	19.7	42.5	SLA-CHTGH-080-100-42
10	500	35.1	15	99	99	89	3	62.5	125	4	32	33	48	32	125	250	19.7	34.8	SLA-CHTGH-100-050-42
10	1000	35.1	30	99	99	89	3	62.5	125	8	32	33	48	32	125	750	19.7	69.6	SLA-CHTGH-100-100-42

注: 模4齿条增加M12螺丝孔增强型。

斜齿铣齿齿条
HELICAL TEETH MILLED RACKS
SLA-CHTMN-DIN8

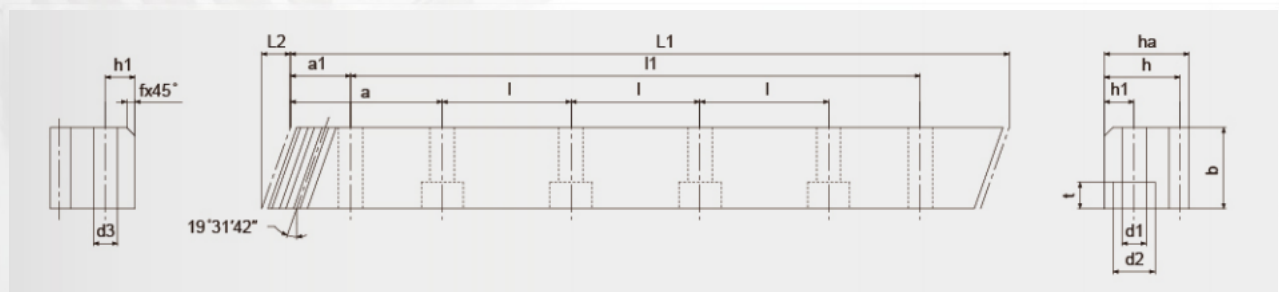
规格 Specifications			
精度等级 Quality	DIN8e27	齿形标准 Gear Standard	DIN867
材料 Material	C45	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	铣齿 Milled	右旋角 Right Helix Angle	19°31'42"
热处理方式 Heat treatment	无硬化 Soft		



	le		L2		b	ha	h	f	a	l		h1	d1	d2	t		l1	d3		
	1.5	500	7.1	100	20	20	18.5	1	62.5	125	4	8	7	11	9	31.7	436.6	5.7	1.3	SLA-CHTMN-015-050
	1.5	1000	7.1	200	20	20	18.5	1	62.5	125	8	8	7	11	9	31.7	936.6	5.7	2.6	SLA-CHTMN-015-100
	2	500	8.5	75	24	24	22	2	62.5	125	4	8	7	11	9	31.7	436.6	5.7	2.1	SLA-CHTMN-020-050
	2	1000	8.5	150	24	24	22	2	62.5	125	8	8	7	11	9	31.7	936.6	5.7	4.1	SLA-CHTMN-020-100
	3	500	10.3	50	29	29	26	2	62.5	125	4	9	10	15	9	35	430	7.7	2.9	SLA-CHTMN-030-050
	3	1000	10.3	100	29	29	26	2	62.5	125	8	9	10	15	9	35	930	7.7	5.9	SLA-CHTMN-030-100
	4	506.66	13.8	38	39	39	35	3	62.5	125	4	12	10	15	9	33.3	433	7.7	5.4	SLA-CHTMN-040-050
	4	1000	13.8	75	39	39	35	3	62.5	125	8	12	10	15	9	33.3	933.4	7.7	10.7	SLA-CHTMN-040-100
	5	500	17.4	30	49	39	34	3	62.5	125	4	12	14	20	13	37.5	425	11.7	6.5	SLA-CHTMN-050-050
	5	1000	17.4	60	49	39	34	3	62.5	125	8	12	14	20	13	37.5	925	11.7	13	SLA-CHTMN-050-100
	6	500	20.9	25	59	49	43	3	62.5	125	4	16	18	26	17	37.5	425	15.7	9.9	SLA-CHTMN-060-050
	6	1000	20.9	50	59	49	43	3	62.5	125	8	16	18	26	17	37.5	925	15.7	19.8	SLA-CHTMN-060-100
	8	480	28	18	79	79	71	3	60	120	4	25	22	33	21	120	240	19.7	21	SLA-CHTMN-080-050
	8	960	28	36	79	79	71	3	60	120	8	25	22	33	21	120	720	19.7	42.5	SLA-CHTMN-080-100
	10	500	35.1	15	99	99	89	3	62.5	125	4	32	33	48	32	125	250	19.7	34.8	SLA-CHTMN-100-050
	10	1000	35.1	30	99	99	89	3	62.5	125	8	32	33	48	32	125	750	19.7	69.6	SLA-CHTMN-100-100

斜齿铣齿齿条
HELICAL TEETH MILLED RACKS
SLA-CHTMQ-DIN8

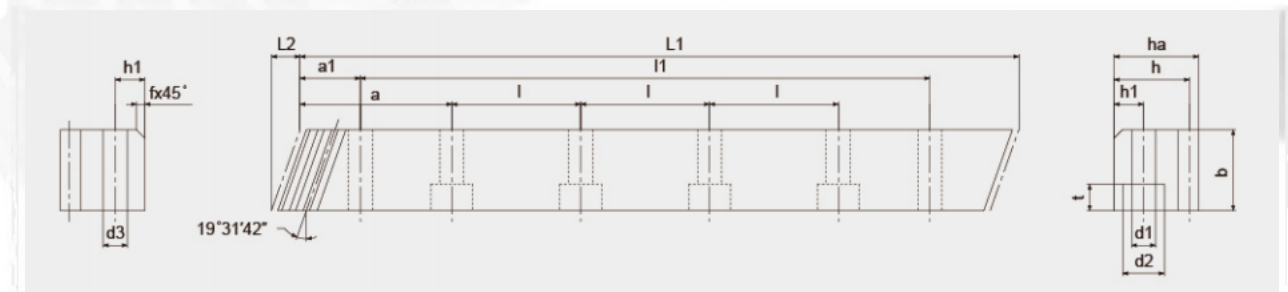
规格 Specifications			
精度等级 Quality	DIN8e27	齿形标准 Gear Standard	DIN867
材料 Material	C45	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	铣齿 Milled	右旋角 Right Helix Angle	19°31'42"
热处理方式 Heat treatment	调质 Quenched and tempered HRC20-25		



		L2		lb	ha	h	f	a	l	孔数 N	h1	d1	d2	t	a1	l1			
1.5	500	7.1	100	20	20	18.5	1	62.5	125	4	8	7	11	7	31.7	436.6	5.7	1.3	SLA-CHTMQ-015-050
1.5	1000	7.1	200	20	20	18.5	1	62.5	125	8	8	7	11	7	31.7	936.6	5.7	2.6	SLA-CHTMQ-015-100
2	500	8.5	75	24	24	22	2	62.5	125	4	8	7	11	7	31.7	436.6	5.7	2.1	SLA-CHTMQ-020-050
2	1000	8.5	150	24	24	22	2	62.5	125	8	8	7	11	7	31.7	936.6	5.7	4.1	SLA-CHTMQ-020-100
3	500	10.3	50	29	29	26	2	62.5	125	4	9	10	15	9	35	430	7.7	2.9	SLA-CHTMQ-030-050
3	1000	10.3	100	29	29	26	2	62.5	125	8	9	10	15	9	35	930	7.7	5.9	SLA-CHTMQ-030-100
4	506.66	13.8	38	39	39	35	3	62.5	125	4	12	10	15	9	33.3	433	7.7	5.4	SLA-CHTMQ-040-050
4	1000	13.8	75	39	39	35	3	62.5	125	8	12	10	15	9	33.3	933.4	7.7	10.7	SLA-CHTMQ-040-100
5	500	17.4	30	49	39	34	3	62.5	125	4	12	14	20	13	37.5	425	11.7	6.5	SLA-CHTMQ-050-050
5	1000	17.4	60	49	39	34	3	62.5	125	8	12	14	20	13	37.5	925	11.7	13	SLA-CHTMQ-050-100
6	500	20.9	25	59	49	43	3	62.5	125	4	16	18	26	17	37.5	425	15.7	9.9	SLA-CHTMQ-060-050
6	1000	20.9	50	59	49	43	3	62.5	125	8	16	18	26	17	37.5	925	15.7	19.8	SLA-CHTMQ-060-100
8	480	28	18	79	79	71	3	60	120	4	25	22	33	21	120	240	19.7	21	SLA-CHTMQ-080-050
8	960	28	36	79	79	71	3	60	120	8	25	22	33	21	120	720	19.7	42.5	SLA-CHTMQ-080-100
10	500	35.1	15	99	99	89	3	62.5	125	4	32	33	48	32	125	250	19.7	34.8	SLA-CHTMQ-100-050
10	1000	35.1	30	99	99	89	3	62.5	125	8	32	33	48	32	125	750	19.7	69.6	SLA-CHTMQ-100-100

斜齿铣齿齿条
HELICAL TEETH MILLED RACKS
SLA-CHTMQ-DIN8

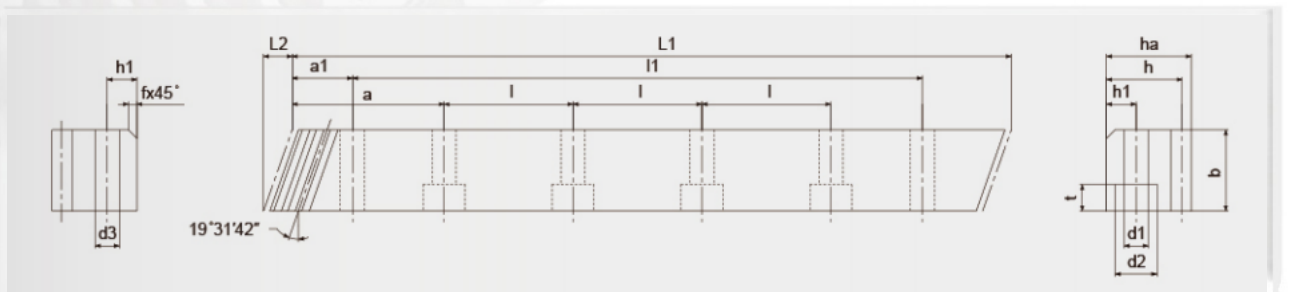
规格 Specifications			
精度等级 Quality	DIN8e27	齿形标准 Gear Standard	DIN867
材料 Material	42CrMo	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	铣齿 Milled	右旋角 Right Helix Angle	19°31'42"
热处理方式 Heat treatment	调质 Quenched and tempered HRC20-25		



模数 Module		L2		b	ha	h	f	a	l		h1	d1	d2	t	a1	l1	d3		
1.5	500	7.1	100	20	20	18.5	1	62.5	125	4	8	7	11	7	31.7	436.6	5.7	1.3	SLA-CHTMQ-015-050-42Cr
1.5	1000	7.1	200	20	20	18.5	1	62.5	125	8	8	7	11	7	31.7	936.6	5.7	2.6	SLA-CHTMQ-015-100-42Cr
2	500	8.5	75	24	24	22	2	62.5	125	4	8	7	11	7	31.7	436.6	5.7	2.1	SLA-CHTMQ-020-050-42Cr
2	1000	8.5	150	24	24	22	2	62.5	125	8	8	7	11	7	31.7	936.6	5.7	4.1	SLA-CHTMQ-020-100-42Cr
3	500	10.3	50	29	29	26	2	62.5	125	4	9	10	15	9	35	430	7.7	2.9	SLA-CHTMQ-030-050-42Cr
3	1000	10.3	100	29	29	26	2	62.5	125	8	9	10	15	9	35	930	7.7	5.9	SLA-CHTMQ-030-100-42Cr
4	506.66	13.8	38	39	39	35	3	62.5	125	4	12	10	15	9	33.3	433	7.7	5.4	SLA-CHTMQ-040-050-42Cr
4	1000	13.8	75	39	39	35	3	62.5	125	8	12	10	15	9	33.3	933.4	7.7	10.7	SLA-CHTMQ-040-100-42Cr
5	500	17.4	30	49	39	34	3	62.5	125	4	12	14	20	13	37.5	425	11.7	6.5	SLA-CHTMQ-050-050-42Cr
5	1000	17.4	60	49	39	34	3	62.5	125	8	12	14	20	13	37.5	925	11.7	13	SLA-CHTMQ-050-100-42Cr
6	500	20.9	25	59	49	43	3	62.5	125	4	16	18	26	17	37.5	425	15.7	9.9	SLA-CHTMQ-060-050-42Cr
6	1000	20.9	50	59	49	43	3	62.5	125	8	16	18	26	17	37.5	925	15.7	19.8	SLA-CHTMQ-060-100-42Cr
8	480	28	18	79	79	71	3	60	120	4	25	22	33	21	120	240	19.7	21	SLA-CHTMQ-080-050-42Cr
8	960	28	36	79	79	71	3	60	120	8	25	22	33	21	120	720	19.7	42.5	SLA-CHTMQ-080-100-42Cr
10	500	35.1	15	99	99	89	3	62.5	125	4	32	33	48	32	125	250	19.7	34.8	SLA-CHTMQ-100-050-42Cr
10	1000	35.1	30	99	99	89	3	62.5	125	8	32	33	48	32	125	750	19.7	69.6	SLA-CHTMQ-100-100-42Cr

斜齿铣齿齿条
HELICAL TEETH MILLED RACKS
SLA-CHTMH-DIN10

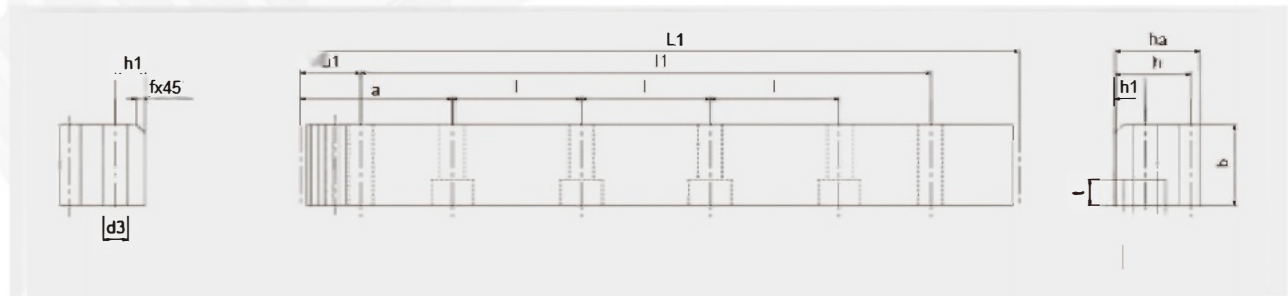
规格 Specifications			
精度等级 Quality	DIN10e27	齿形标准 Gear Standard	DIN867
材料 Material	C45	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	铣齿 Milled	右旋角 Right Helix Angle	19°31'42"
热处理方式 Heat treatment	齿部高频 Induction-hardened HRC50-55		



模数 Module		L2	齿数 Z	b	ha	h	f	a	l	孔数 N	h1	d1	d2	t	a1	l1	d3		
1.5	500	7.1	100	20	20	18.5	1	62.5	125	4	8	7	11	7	31.7	436.6	5.7	1.3	SLA-CHTMH-015-050
1.5	1000	7.1	200	20	20	18.5	1	62.5	125	8	8	7	11	7	31.7	936.6	5.7	2.6	SLA-CHTMH-015-100
2	500	8.5	75	24	24	22	2	62.5	125	4	8	7	11	7	31.7	436.6	5.7	2.1	SLA-CHTMH-020-050
2	1000	8.5	150	24	24	22	2	62.5	125	8	8	7	11	7	31.7	936.6	5.7	4.1	SLA-CHTMH-020-100
3	500	10.3	50	29	29	26	2	62.5	125	4	9	10	15	9	35	430	7.7	2.9	SLA-CHTMH-030-050
3	1000	10.3	100	29	29	26	2	62.5	125	8	9	10	15	9	35	930	7.7	5.9	SLA-CHTMH-030-100
4	506.66	13.8	38	39	39	35	3	62.5	125	4	12	10	15	9	33.3	433	7.7	5.4	SLA-CHTMH-040-050
4	1000	13.8	75	39	39	35	3	62.5	125	8	12	10	15	9	33.3	933.4	7.7	10.7	SLA-CHTMH-040-100
5	500	17.4	30	49	39	34	3	62.5	125	4	12	14	20	13	37.5	425	11.7	6.5	SLA-CHTMH-050-050
5	1000	17.4	60	49	39	34	3	62.5	125	8	12	14	20	13	37.5	925	11.7	13	SLA-CHTMH-050-100
6	500	20.9	25	59	49	43	3	62.5	125	4	16	18	26	17	37.5	425	15.7	9.9	SLA-CHTMH-060-050
6	1000	20.9	50	59	49	43	3	62.5	125	8	16	18	26	17	37.5	925	15.7	19.8	SLA-CHTMH-060-100
8	480	28	18	79	79	71	3	60	120	4	25	22	33	21	120	240	19.7	21	SLA-CHTMH-080-050
8	960	28	36	79	79	71	3	60	120	8	25	22	33	21	120	720	19.7	42.5	SLA-CHTMH-080-100
10	500	35.1	15	99	99	89	3	62.5	125	4	32	33	48	32	125	250	19.7	34.8	SLA-CHTMH-100-050
10	1000	35.1	30	99	99	89	3	62.5	125	8	32	33	48	32	125	750	19.7	69.6	SLA-CHTMH-100-100

直齿磨齿齿条
STRAIGHT TEETH GROUND RACKS
SLA-CSTGH-DIN5

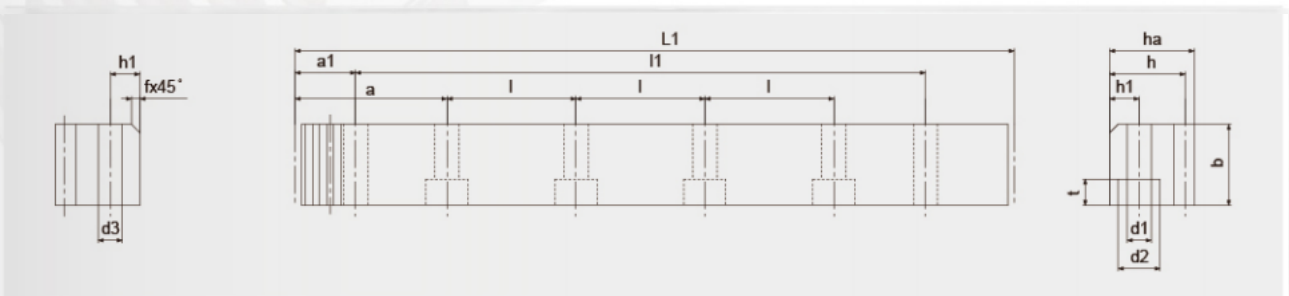
精度等级 Quality	DIN5h22	齿形标准 Gear Standard	DIN867
材料 Material	C45	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	磨齿 Ground	右旋角 Right Helix Angle	0°
热处理方式 Heat treatment	齿部高频 Induction hardened HRC50-55		



		b	ha	h	f	a	l		h1	d1	d2	t	a1	l1				
1.5	499.51	106	20	20	18.5	1	62.44	124.88	4	8	7	11	7	29	441	5.7	1.3	SLA-CSTGH-015-050-DIN5
1.5	999.03	212	20	20	18.5	1	62.44	124.88	8	8	7	11	7	29	941	5.7	2.6	SLA-CSTGH-015-100-DIN5
2	502.65	80	24	24	22	2	62.8	125.66	4	8	7	11	7	31.3	440.1	5.7	2.1	SLA-CSTGH-020-050-DIN5
2	1005.3	160	24	24	22	2	62.8	125.66	8	8	7	11	7	31.3	942.7	5.7	4.1	SLA-CSTGH-020-100-DIN5
3	508.93	54	29	29	26	2	63.6	127.23	4	9	10	15	9	34.4	440.1	7.7	2.9	SLA-CSTGH-030-050-DIN5
3	1017.87	108	29	29	26	2	63.6	127.23	8	9	10	15	9	34.4	949.1	7.7	5.9	SLA-CSTGH-030-100-DIN5
4	502.65	40	39	39	35	3	62.8	125.66	4	12	10	15	9	37.5	427.7	7.7	5.4	SLA-CSTGH-040-050-DIN5
4	1005.3	80	39	39	35	3	62.8	125.66	8	12	10	15	9	37.5	930.3	7.7	10.7	SLA-CSTGH-040-100-DIN5
5	502.65	32	49	39	34	3	62.8	125.66	4	12	14	20	13	30.1	442.4	11.7	6.5	SLA-CSTGH-050-050-DIN5
5	1005.3	64	49	39	34	3	62.8	125.66	8	12	14	20	13	30.1	945	11.7	13	SLA-CSTGH-050-100-DIN5
6	508.93	27	59	49	43	3	63.6	127.23	4	16	18	26	17	31.4	446.1	15.7	9.9	SLA-CSTGH-060-050-DIN5
6	1017.87	54	59	49	43	3	63.6	127.23	8	16	18	26	17	31.4	955	15.7	19.8	SLA-CSTGH-060-100-DIN5
8	502.65	20	79	79	71	3	62.8	125.66	4	25	22	33	21	26.6	449.5	19.7	21	SLA-CSTGH-080-050-DIN5
8	1005.3	40	79	79	71	3	62.8	125.66	8	25	22	33	21	26.6	952	19.7	42.5	SLA-CSTGH-080-100-DIN5
10	501.23	16	99	99	89	3	62.08	125.66	4	32	33	48	32	24.98	251.3	19.7	34.8	SLA-CSTGH-100-050-DIN5
10	1005.3	32	99	99	89	3	62.08	125.66	8	32	33	48	32	124.98	754	19.7	69.6	SLA-CSTGH-100-100-DIN5

直齿磨齿齿条
STRAIGHT TEETH GROUND RACKS
SLA-CSTGH-DIN5

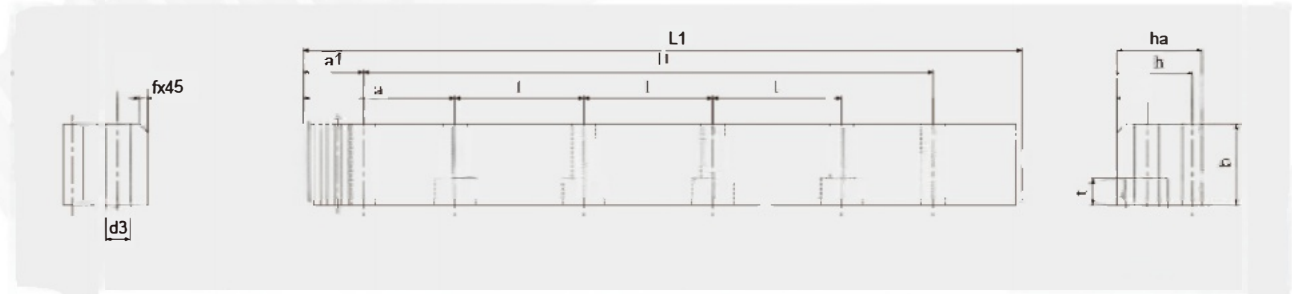
精度等级 Quality	DIN5h22	齿形标准 Gear Standard	DIN867
材料 Material	42CrMo	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	磨齿 Ground	右旋角 Right Helix Angle	0°
热处理方式 Heat treatment	齿部高频 Induction-hardened HRC55-60		



			b	ha	h	f	a	l	孔数 N	h1	d1	d2	t	a1	l1			
1.5	499.51	106	20	20	18.5	1	62.44	124.88	4	8	7	11	7	29	441	5.7	1.3	SLA-CSTGH-015-050-DIN5-42Cr
1.5	999.03	212	20	20	18.5	1	62.44	124.88	8	8	7	11	7	29	941	5.7	2.6	SLA-CSTGH-015-100-DIN5-42Cr
2	502.65	80	24	24	22	2	62.8	125.66	4	8	7	11	7	31.3	440.1	5.7	2.1	SLA-CSTGH-020-050-DIN5-42Cr
2	1005.3	160	24	24	22	2	62.8	125.66	8	8	7	11	7	31.3	942.7	5.7	4.1	SLA-CSTGH-020-100-DIN5-42Cr
3	508.93	54	29	29	26	2	63.6	127.23	4	9	10	15	9	34.4	440.1	7.7	2.9	SLA-CSTGH-030-050-DIN5-42Cr
3	1017.87	108	29	29	26	2	63.6	127.23	8	9	10	15	9	34.4	949.1	7.7	5.9	SLA-CSTGH-030-100-DIN5-42Cr
4	502.65	40	39	39	35	3	62.8	125.66	4	12	10	15	9	37.5	427.7	7.7	5.4	SLA-CSTGH-040-050-DIN5-42Cr
4	1005.3	80	39	39	35	3	62.8	125.66	8	12	10	15	9	37.5	930.3	7.7	10.7	SLA-CSTGH-040-100-DIN5-42Cr
5	502.65	32	49	39	34	3	62.8	125.66	4	12	14	20	13	30.1	442.4	11.7	6.5	SLA-CSTGH-050-050-DIN5-42Cr
5	1005.3	64	49	39	34	3	62.8	125.66	8	12	14	20	13	30.1	945	11.7	13	SLA-CSTGH-050-100-DIN5-42Cr
6	508.93	27	59	49	43	3	63.6	127.23	4	16	18	26	17	31.4	446.1	15.7	9.9	SLA-CSTGH-060-050-DIN5-42Cr
6	1017.87	54	59	49	43	3	63.6	127.23	8	16	18	26	17	31.4	955	15.7	19.8	SLA-CSTGH-060-100-DIN5-42Cr
8	502.65	20	79	79	71	3	62.8	125.66	4	25	22	33	21	26.6	449.5	19.7	21	SLA-CSTGH-080-050-DIN5-42Cr
8	1005.3	40	79	79	71	3	62.8	125.66	8	25	22	33	21	26.6	952	19.7	42.5	SLA-CSTGH-080-100-DIN5-42Cr
10	501.23	16	99	99	89	3	62.08	125.66	4	32	33	48	32	124.98	251.3	19.7	34.8	SLA-CSTGH-100-050-DIN5-42Cr
10	1005.3	32	99	99	89	3	62.08	125.66	8	32	33	48	32	124.98	754	19.7	69.6	SLA-CSTGH-100-100-DIN5-42Cr

直齿磨齿齿条
STRAIGHT TEETH GROUND RACKS
SLA-CSTGH-DIN6

规格 Specifications			
精度等级 Quality	DIN6h25	齿形标准 Gear Standard	DIN867
材料 Material	C45	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	磨齿 Ground	右旋角 Right Helix Angle	0°
热处理方式 Heat treatment	齿部高频 Induction-hardened HRC50-55		

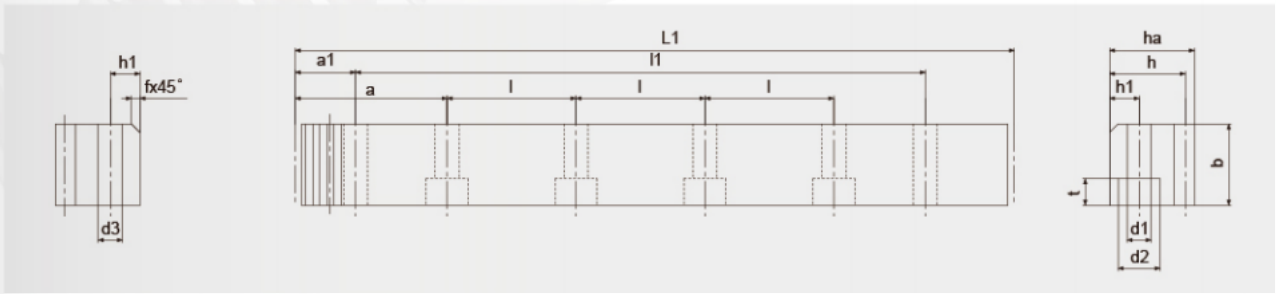


Module	理论长 L	b	ha	h	f	a	l	孔数 N°	h1	d1	d2	t	a1	l1	d3	重量 kg		
1.5	499.51	106	20	20	18.5	1	62.44	124.88	4	8	7	11	7	29	441	5.7	1.3	SLA-CSTGH-015-050
1.5	999.03	212	20	20	18.5	1	62.44	124.88	8	8	7	11	7	29	941	5.7	2.6	SLA-CSTGH-015-100
2	502.65	80	24	24	22	2	62.8	125.66	4	8	7	11	7	31.3	440.1	5.7	2.1	SLA-CSTGH-020-050
2	1005.3	160	24	24	22	2	62.8	125.66	8	8	7	11	7	31.3	942.7	5.7	4.1	SLA-CSTGH-020-100
3	508.93	54	29	29	26	2	63.6	127.23	4	9	10	15	9	34.4	440.1	7.7	2.9	SLA-CSTGH-030-050
3	1017.87	108	29	29	26	2	63.6	127.23	8	9	10	15	9	34.4	949.1	7.7	5.9	SLA-CSTGH-030-100
4	502.65	40	39	39	35	3	62.8	125.66	4	12	10	15	9	37.5	427.7	7.7	5.4	SLA-CSTGH-040-050
4	1005.3	80	39	39	35	3	62.8	125.66	8	12	10	15	9	37.5	930.3	7.7	10.7	SLA-CSTGH-040-100
4	1005.3	80	39	39	35	3	62.8	125.66	8	12	14	20	13	37.5	930.3	11.7	10.7	SLA-CSTGH-040-100-M12
5	502.65	32	49	39	34	3	62.8	125.66	4	12	14	20	13	30.1	442.4	11.7	6.5	SLA-CSTGH-050-050
5	1005.3	64	49	39	34	3	62.8	125.66	8	12	14	20	13	30.1	945	11.7	13	SLA-CSTGH-050-100
6	508.93	27	59	49	43	3	63.6	127.23	4	16	18	26	17	31.4	446.1	15.7	9.9	SLA-CSTGH-060-050
6	1017.87	54	59	49	43	3	63.6	127.23	8	16	18	26	17	31.4	955	15.7	19.8	SLA-CSTGH-060-100
8	502.65	20	79	79	71	3	62.8	125.66	4	25	22	33	21	26.6	449.5	19.7	21	SLA-CSTGH-080-050
8	1005.3	40	79	79	71	3	62.8	125.66	8	25	22	33	21	26.6	952	19.7	42.5	SLA-CSTGH-080-100
10	501.23	16	99	99	89	3	62.08	125.66	4	32	33	48	32	124.98	251.3	19.7	34.8	SLA-CSTGH-100-050
10	1005.3	32	99	99	89	3	62.08	125.66	8	32	33	48	32	124.98	754	19.7	69.6	SLA-CSTGH-100-100

注：模4齿条增加M12螺丝孔增强型。

直齿磨齿齿条
STRAIGHT TEETH GROUND RACKS
SLA-CSTGH-DIN6

规格 Specifications			
精度等级 Quality	DIN6h25	齿形标准 Gear Standard	DIN867
材料 Material	42CrMo	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	磨齿 Ground	右旋角 Right Helix Angle	0°
热处理方式 Heat treatment	齿部高频 Induction-hardened HRC55-60		

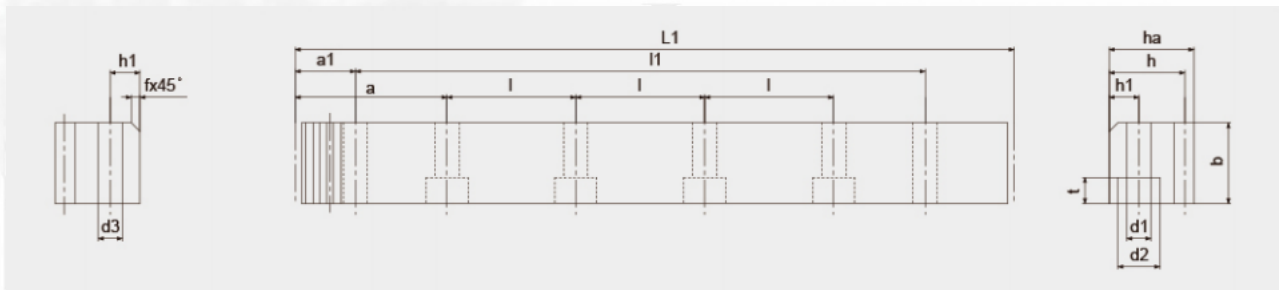


	理论长 L	b	ha	h	f	a	l	孔数 N°	h1	d1	d2	t	a1	l1	d3	重量 kg		
1.5	499.51	106	20	20	18.5	1	62.44	124.88	4	8	7	11	7	29	441	5.7	1.3	SLA-CSTGH-015-050-42Cr
1.5	999.03	212	20	20	18.5	1	62.44	124.88	8	8	7	11	7	29	941	5.7	2.6	SLA-CSTGH-015-100-42Cr
2	502.65	80	24	24	22	2	62.8	125.66	4	8	7	11	7	31.3	440.1	5.7	2.1	SLA-CSTGH-020-050-42Cr
2	1005.3	160	24	24	22	2	62.8	125.66	8	8	7	11	7	31.3	942.7	5.7	4.1	SLA-CSTGH-020-100-42Cr
3	508.93	54	29	29	26	2	63.6	127.23	4	9	10	15	9	34.4	440.1	7.7	2.9	SLA-CSTGH-030-050-42Cr
3	1017.87	108	29	29	26	2	63.6	127.23	8	9	10	15	9	34.4	949.1	7.7	5.9	SLA-CSTGH-030-100-42Cr
4	502.65	40	39	39	35	3	62.8	125.66	4	12	10	15	9	37.5	427.7	7.7	5.4	SLA-CSTGH-040-050-42Cr
4	1005.3	80	39	39	35	3	62.8	125.66	8	12	10	15	9	37.5	930.3	7.7	10.7	SLA-CSTGH-040-100-42Cr
4	1005.3	80	39	39	35	3	62.8	125.66	8	12	14	20	13	37.5	930.3	11.7	10.7	SLA-CSTGH-040-100-M12-42Cr
5	502.65	32	49	39	34	3	62.8	125.66	4	12	14	20	13	30.1	442.4	11.7	6.5	SLA-CSTGH-050-050-42Cr
5	1005.3	64	49	39	34	3	62.8	125.66	8	12	14	20	13	30.1	945	11.7	13	SLA-CSTGH-050-100-42Cr
6	508.93	27	59	49	43	3	63.6	127.23	4	16	18	26	17	31.4	446.1	15.7	9.9	SLA-CSTGH-060-050-42Cr
6	1017.87	54	59	49	43	3	63.6	127.23	8	16	18	26	17	31.4	955	15.7	19.8	SLA-CSTGH-060-100-42Cr
8	502.65	20	79	79	71	3	62.8	125.66	4	25	22	33	21	26.6	449.5	19.7	21	SLA-CSTGH-080-050-42Cr
8	1005.3	40	79	79	71	3	62.8	125.66	8	25	22	33	21	26.6	952	19.7	42.5	SLA-CSTGH-080-100-42Cr
10	501.23	16	99	99	89	3	62.08	125.66	4	32	33	48	32	124.98	251.3	19.7	34.8	SLA-CSTGH-100-050-42Cr
10	1005.3	32	99	99	89	3	62.08	125.66	8	32	33	48	32	124.98	754	19.7	69.6	SLA-CSTGH-100-100-42Cr

注：模4齿条增加M12螺丝孔增强型。

直齿铣齿齿条
STRAIGHT TEETH MILLED RACKS
SLA-CSTMN-DIN8

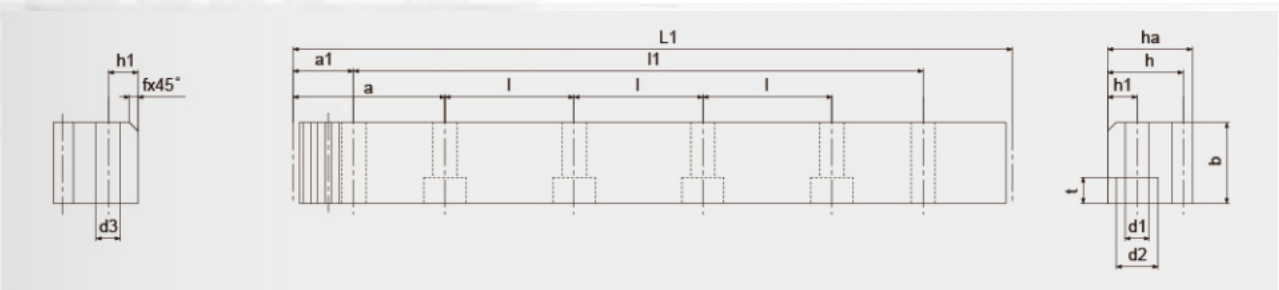
规格 Specifications			
精度等级 Quality	DIN8e27	齿形标准 Gear Standard	DIN867
材料 Material	C45	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	铣齿 Milled	右旋角 Right Helix Angle	0°
热处理方式 Heat treatment	无硬化 Soft		



			b	ha	h	f	a	l	h1	d1	d2	t	a1	l1				
1.5	499.51	106	20	20	18.5	1	62.44	124.88	4	8	7	11	9	29	441	5.7	1.3	SLA-CSTMN-015-050
1.5	999.03	212	20	20	18.5	1	62.44	124.88	8	8	7	11	9	29	941	5.7	2.6	SLA-CSTMN-015-100
2	502.65	80	24	24	22	2	62.8	125.66	4	8	7	11	9	31.3	440.1	5.7	2.1	SLA-CSTMN-020-050
2	1005.3	160	24	24	22	2	62.8	125.66	8	8	7	11	9	31.3	942.7	5.7	4.1	SLA-CSTMN-020-100
3	508.93	54	29	29	26	2	63.6	127.23	4	9	10	15	9	34.4	440.1	7.7	2.9	SLA-CSTMN-030-050
3	1017.87	108	29	29	26	2	63.6	127.23	8	9	10	15	9	34.4	949.1	7.7	5.9	SLA-CSTMN-030-100
4	502.65	40	39	39	35	3	62.8	125.66	4	12	10	15	9	37.5	427.7	7.7	5.4	SLA-CSTMN-040-050
4	1005.3	80	39	39	35	3	62.8	125.66	8	12	10	15	9	37.5	930.3	7.7	10.7	SLA-CSTMN-040-100
5	502.65	32	49	39	34	3	62.8	125.66	4	12	14	20	13	30.1	442.4	11.7	6.5	SLA-CSTMN-050-050
5	1005.3	64	49	39	34	3	62.8	125.66	8	12	14	20	13	30.1	945	11.7	13	SLA-CSTMN-050-100
6	508.93	27	59	49	43	3	63.6	127.23	4	16	18	26	17	31.4	446.1	15.7	9.9	SLA-CSTMN-060-050
6	1017.87	54	59	49	43	3	63.6	127.23	8	16	18	26	17	31.4	955	15.7	19.8	SLA-CSTMN-060-100
8	502.65	20	79	79	71	3	62.8	125.66	4	25	22	33	21	26.6	449.5	19.7	21	SLA-CSTMN-080-050
8	1005.3	40	79	79	71	3	62.8	125.66	8	25	22	33	21	26.6	952	19.7	42.5	SLA-CSTMN-080-100
10	501.23	16	99	99	89	3	62.08	125.66	4	32	33	48	32	124.98	251.3	19.7	34.8	SLA-CSTMN-100-050
10	1005.3	32	99	99	89	3	62.08	125.66	8	32	33	48	32	124.98	754	19.7	69.6	SLA-CSTMN-100-100

直齿铣齿齿条
STRAIGHT TEETH MILLED RACKS
SLA-CSTMQ-DIN8

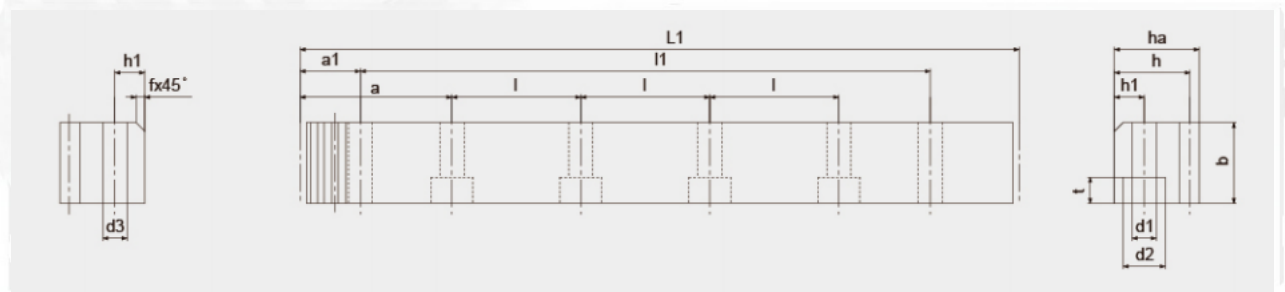
规格 Specifications			
精度等级 Quality	DIN8e27	齿形标准 Gear Standard	DIN867
材料 Material	C45	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	铣齿 Milled	右旋角 Right Helix Angle	0°
热处理方式 Heat treatment	调质 Quenched and tempered HRC20-25		



	理论长		b	ha	h	f	a	l		h1	d1		t	a1		d3		
1.5	499.51	106	20	20	18.5	1	62.44	124.88	4	8	7	11	7	29	441	5.7	1.3	SLA-CSTMQ-015-050
1.5	999.03	212	20	20	18.5	1	62.44	124.88	8	8	7	11	7	29	941	5.7	2.6	SLA-CSTMQ-015-100
2	502.65	80	24	24	22	2	62.8	125.66	4	8	7	11	7	31.3	440.1	5.7	2.1	SLA-CSTMQ-020-050
2	1005.3	160	24	24	22	2	62.8	125.66	8	8	7	11	7	31.3	942.7	5.7	4.1	SLA-CSTMQ-020-100
3	508.93	54	29	29	26	2	63.6	127.23	4	9	10	15	9	34.4	440.1	7.7	2.9	SLA-CSTMQ-030-050
3	1017.87	108	29	29	26	2	63.6	127.23	8	9	10	15	9	34.4	949.1	7.7	5.9	SLA-CSTMQ-030-100
4	502.65	40	39	39	35	3	62.8	125.66	4	12	10	15	9	37.5	427.7	7.7	5.4	SLA-CSTMQ-040-050
4	1005.3	80	39	39	35	3	62.8	125.66	8	12	10	15	9	37.5	930.3	7.7	10.7	SLA-CSTMQ-040-100
5	502.65	32	49	39	34	3	62.8	125.66	4	12	14	20	13	30.1	442.4	11.7	6.5	SLA-CSTMQ-050-050
5	1005.3	64	49	39	34	3	62.8	125.66	8	12	14	20	13	30.1	945	11.7	13	SLA-CSTMQ-050-100
6	508.93	27	59	49	43	3	63.6	127.23	4	16	18	26	17	31.4	446.1	15.7	9.9	SLA-CSTMQ-060-050
6	1017.87	54	59	49	43	3	63.6	127.23	8	16	18	26	17	31.4	955	15.7	19.8	SLA-CSTMQ-060-100
8	502.65	20	79	79	71	3	62.8	125.66	4	25	22	33	21	26.6	449.5	19.7	21	SLA-CSTMQ-080-050
8	1005.3	40	79	79	71	3	62.8	125.66	8	25	22	33	21	26.6	952	19.7	42.5	SLA-CSTMQ-080-100
10	501.23	16	99	99	89	3	62.08	125.66	4	32	33	48	32	174.98	251.3	19.7	34.8	SLA-CSTMQ-100-050
10	1005.3	32	99	99	89	3	62.08	125.66	8	32	33	48	32	124.98	754	19.7	69.6	SLA-CSTMQ-100-100

直齿铣齿齿条
STRAIGHT TEETH MILLED RACKS
SLA-CSTMQ-DIN8

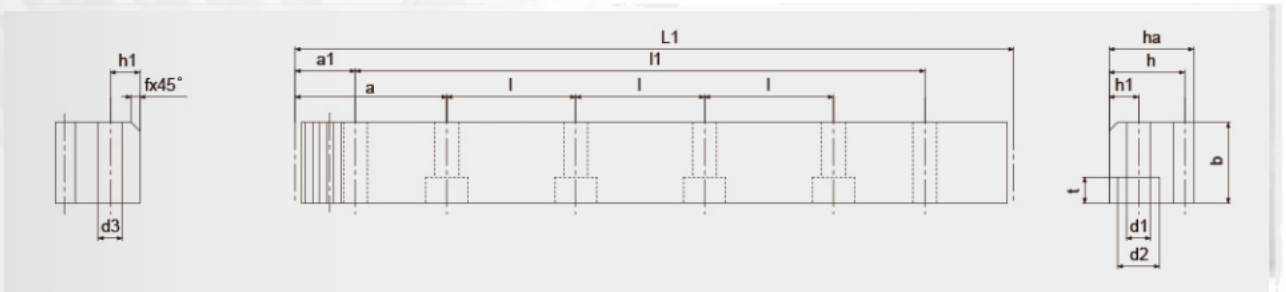
规格 Specifications			
精度等级 Quality	DIN8e27	齿形标准 Gear Standard	DIN867
材料 Material	42CrMo	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	铣齿 Milled	右旋角 Right Helix Angle	0°
热处理方式 Heat treatment	调质 Quenched and tempered HRC20-25		



模数 Module			b	ha	h	f	a	l	孔数 N°	h1	d1	d2	t	a1	l1	d3		
1.5	499.51	106	20	20	18.5	1	62.44	124.88	4	8	7	11	7	29	441	5.7	1.3	SLA-CSTMQ-015-050-42Cr
1.5	999.03	212	20	20	18.5	1	62.44	124.88	8	8	7	11	7	29	941	5.7	2.6	SLA-CSTMQ-015-100-42Cr
2	502.65	80	24	24	22	2	62.8	125.66	4	8	7	11	7	31.3	440.1	5.7	2.1	SLA-CSTMQ-020-050-42Cr
2	1005.3	160	24	24	22	2	62.8	125.66	8	8	7	11	7	31.3	942.7	5.7	4.1	SLA-CSTMQ-020-100-42Cr
3	508.93	54	29	29	26	2	63.6	127.23	4	9	10	15	9	34.4	440.1	7.7	2.9	SLA-CSTMQ-030-050-42Cr
3	1017.87	108	29	29	26	2	63.6	127.23	8	9	10	15	9	34.4	949.	7.7	5.9	SLA-CSTMQ-030-100-42Cr
4	502.65	40	39	39	35	3	62.8	125.66	4	12	10	15	9	37.5	427.7	7.7	5.4	SLA-CSTMQ-040-050-42Cr
4	1005.3	80	39	39	35	3	62.8	125.66	8	12	10	15	9	37.5	930.3	7.7	10.7	SLA-CSTMQ-040-100-42Cr
5	502.65	32	49	39	34	3	62.8	125.66	4	12	14	20	13	30.1	442.4	11.7	6.5	SLA-CSTMQ-050-050-42Cr
5	1005.3	64	49	39	34	3	62.8	125.66	8	12	14	20	13	30.1	945	11.7	13	SLA-CSTMQ-050-100-42Cr
6	508.93	27	59	49	43	3	63.6	127.23	4	16	18	26	17	31.4	446.1	15.7	9.9	SLA-CSTMQ-060-050-42Cr
6	1017.87	54	59	49	43	3	63.6	127.23	8	16	18	26	17	31.4	955	15.7	19.8	SLA-CSTMQ-060-100-42Cr
8	502.65	20	79	79	71	3	62.8	125.66	4	25	22	33	21	26.6	449.5	19.7	21	SLA-CSTMQ-080-050-42Cr
8	1005.3	40	79	79	71	3	62.8	125.66	8	25	22	33	21	26.6	952	19.7	42.5	SLA-CSTMQ-080-100-42Cr
10	501.23	16	99	99	89	3	62.08	125.66	4	32	33	48	32	124.98	251.3	19.7	34.8	SLA-CSTMQ-100-050-42Cr
10	1005.3	32	99	99	89	3	62.08	125.66	8	32	33	48	32	124.98	754	19.7	69.6	SLA-CSTMQ-100-100-42Cr

直齿铣齿齿条
STRAIGHT TEETH MILLED RACKS
SLA-CSTGH-DIN10

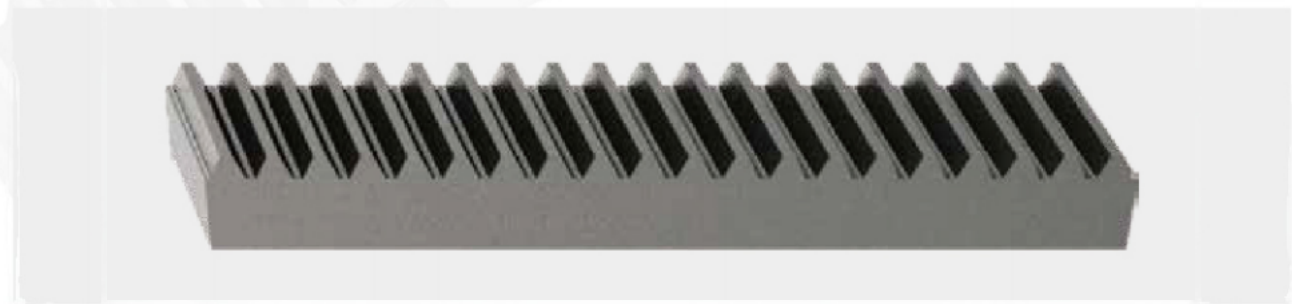
规格 Specifications			
精度等级 Quality	DIN10e27	齿形标准 Gear Standard	DIN867
材料 Material	C45	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	铣齿 Milled	右旋角 Right Helix Angle	0°
热处理方式 Heat treatment	齿部高频 Induction-hardened HRC50-55		



Module			b	ha	h	f	a	l		h1	d1	d2	t	a1	l1	d3		
1.5	499.51	106	20	20	18.5	1	62.44	124.88	4	8	7	11	7	29	441	5.7	1.3	SLA-CSTGH-015-050
1.5	999.03	212	20	20	18.5	1	62.44	124.88	8	8	7	11	7	29	941	5.7	2.6	SLA-CSTGH-015-100
2	502.65	80	24	24	22	2	62.8	125.66	4	8	7	11	7	31.3	440.1	5.7	2.1	SLA-CSTGH-020-050
2	1005.3	160	24	24	22	2	62.8	125.66	8	8	7	11	7	31.3	942.7	5.7	4.1	SLA-CSTGH-020-100
3	508.93	54	29	29	26	2	63.6	127.23	4	9	10	15	9	34.4	440.1	7.7	2.9	SLA-CSTGH-030-050
3	1017.87	108	29	29	26	2	63.6	127.23	8	9	10	15	9	34.4	949.1	7.7	5.9	SLA-CSTGH-030-100
4	502.65	40	39	39	35	3	62.8	125.66	4	12	10	15	9	37.5	427.7	7.7	5.4	SLA-CSTGH-040-050
4	1005.3	80	39	39	35	3	62.8	125.66	8	12	10	15	9	37.5	930.3	7.7	10.7	SLA-CSTGH-040-100
5	502.65	32	49	39	34	3	62.8	125.66	4	12	14	20	13	30.1	442.4	11.7	6.5	SLA-CSTGH-050-050
5	1005.3	64	49	39	34	3	62.8	125.66	8	12	14	20	13	30.1	945	11.7	13	SLA-CSTGH-050-100
6	508.93	27	59	49	43	3	63.6	127.23	4	16	18	26	17	31.4	446.1	15.7	9.9	SLA-CSTGH-060-050
6	1017.87	54	59	49	43	3	63.6	127.23	8	16	18	26	17	31.4	955	15.7	19.8	SLA-CSTGH-060-100
8	502.65	20	79	79	71	3	62.8	125.66	4	25	22	33	21	26.6	449.5	19.7	21	SLA-CSTGH-080-050
8	1005.3	40	79	79	71	3	62.8	125.66	8	25	22	33	21	26.6	952	19.7	42.5	SLA-CSTGH-080-100
10	501.23	16	99	99	89	3	62.08	125.66	4	32	33	48	32	124.98	251.3	19.7	34.8	SLA-CSTGH-100-050
10	1005.3	32	99	99	89	3	62.08	125.66	8	32	33	48	32	124.98	754	19.7	69.6	SLA-CSTGH-100-100

斜齿安装块
HELICAL TEETH MOUNTING PIECES
SLA-CHTMN-DIN8

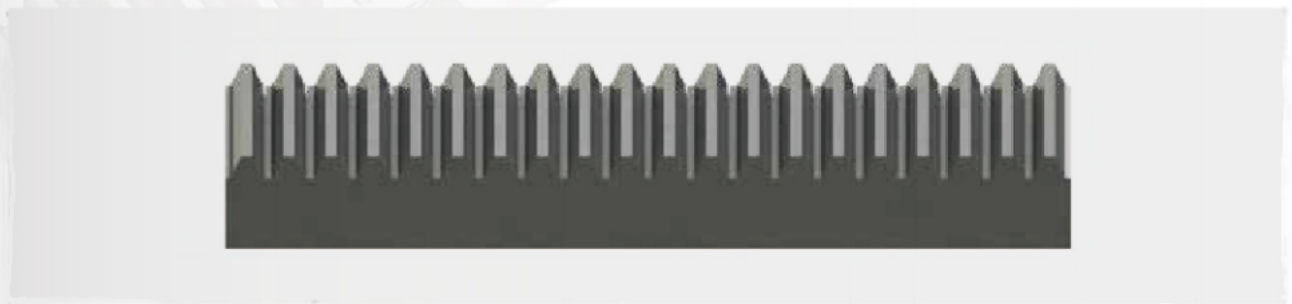
规格 Specifications			
精度等级 Quality	DIN8e27	齿形标准 Gear Standard	DIN867
材料 Material	C45	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	铣齿 Milled	左旋角 Left Helix Angle	19°31'42"
热处理方式 Heat treatment	无硬化 Soft		



Module	齿数 Teeth	宽 b	订购编号 Code
1.5	200	20	SLA-CHTMN-015-020
2	200	24	SLA-CHTMN-020-020
3	200	29	SLA-CHTMN-030-020
4	200	39	SLA-CHTMN-040-020
5	200	39	SLA-CHTMN-050-020
6	200	39	SLA-CHTMN-060-020
8	200	39	SLA-CHTMN-080-020
10	200	39	SLA-CHTMN-100-020

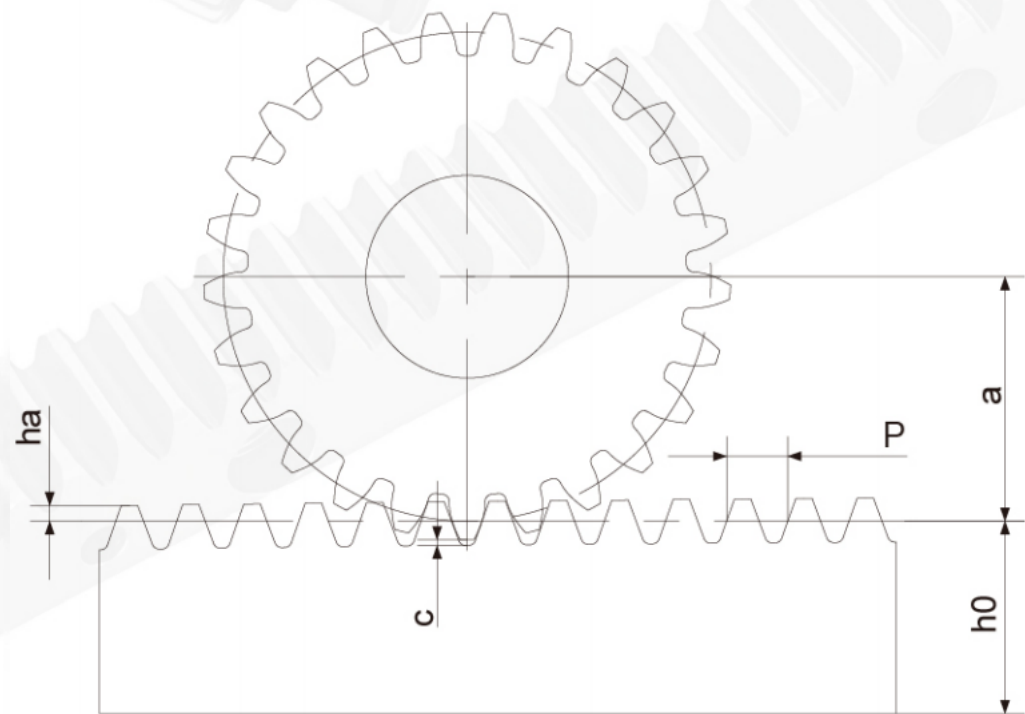
直齿安装块
STRAIGHT TEETH MOUNTING PIECES
SLA-CSTMN-DIN8

规格 Specifications			
精度等级 Quality	DIN8e27	齿形标准 Gear Standard	DIN867
材料 Material	C45	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	铣齿 Milled	左旋角 Left Helix Angle	0°
热处理方式 Heat treatment	无硬化 Soft		



Module	齿数 Teeth	宽 b	订购编号 Code
1.5	200	20	SLA-CSTMN-015-020
2	200	24	SLA-CSTMN-020-020
3	200	29	SLA-CSTMN-030-020
4	200	39	SLA-CSTMN-040-020
5	200	39	SLA-CSTMN-050-020
6	200	39	SLA-CSTMN-060-020
8	200	39	SLA-CSTMN-080-020
10	200	39	SLA-CSTMN-100-020

齿轮说明
GEARS INSTRUCTION



标准直/斜齿轮 Standard Gears	
模数 Module	m
压力角 Pressure Angle	$\alpha=20^\circ$
齿数 Number Of Teeth	Z
螺旋角 Helical Angle	$\beta=19^\circ31'42''/\beta=0^\circ$
齿顶高 Addendum	ha=m
齿顶隙 Clearance	c=0.25m
圆周节距 Circular Pitch	P=πm
中心距 Center Distance	$a=mZ/2\cos\beta+mx$ (1)

(1): x-变位系数

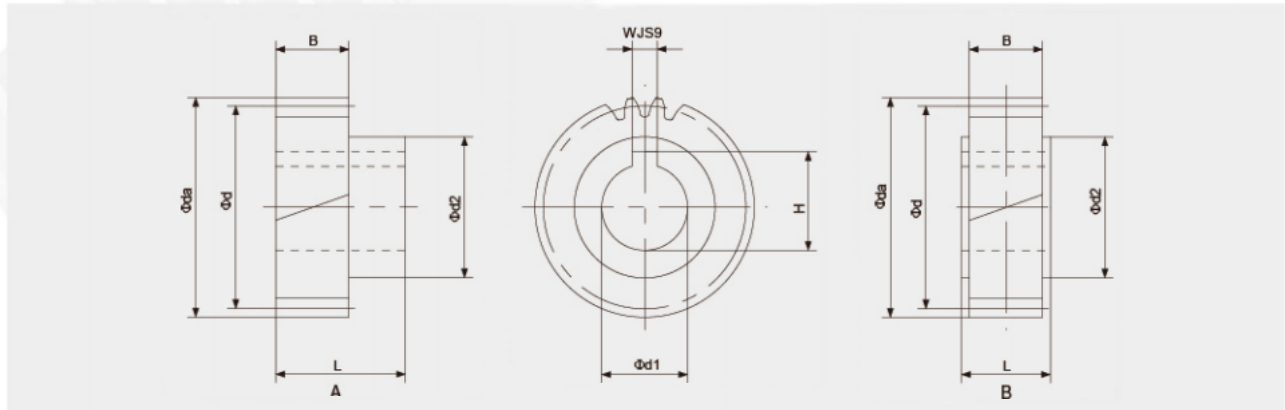
齿轮型号说明
GEAR CODE INSTRUCTION



类型 Type	齿数 Number of Teeth		模数 Module			齿宽 Bore Diameter	精度 Quality		
H	2	5	0	5	0	A	3	2	DIN6
H=斜齿 Helical S=直齿 Straight	25=25teeth		050=m5			A/B	32=φ32mm		DIN6 DIN10

斜齿磨齿齿轮
HELICAL TEETH GROUND GEARS
DIN6

规格 SPECIFICATION			
精度等级 Quality	DIN6e25	齿形标准 Gear Standard	DIN867
材料 Material	20CrMnTi / 40Cr	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	磨齿 Ground	左旋角 Left Helix Angle	19°31'42"
热处理方式 Heat treatment	渗碳淬火 / 感应淬火 Case hardened HRC55-60 / Induction hardened HRC50-55		

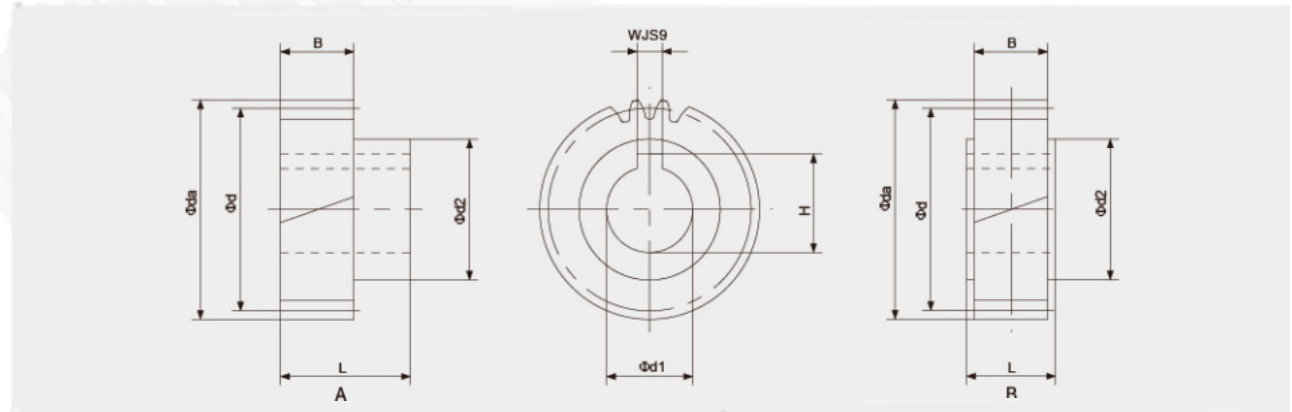


Module		分度圆 da		d1H6	d2	B	L	WJS9	H	图 Fig.		
1.5	20	34.831	31.831	16	25	20	22	5	18.3	B	0.13	H20-015-B16-DIN6
	21	36.423	33.423	16	30	20	46	5	18.3	A	0.15	H21-015-A16-DIN6
2	20	46.441	42.441	19	30	28	30	6	21.8	B	0.3	H20-020-B19-DIN6
	20	46.441	42.441	19	30	28	56	6	21.8	A	0.3	H20-020-A19-DIN6
	20	46.441	42.441	22	30	28	30	6	24.8	B	0.3	H20-020-B22-DIN6
	20	46.441	42.441	22	36	28	56	6	24.8	A	0.3	H20-020-A22-DIN6
	22	50.686	46.686	19	30	28	30	6	21.8	B	0.2	H22-020-B19-DIN6
	22	50.686	46.686	19	30	28	56	6	21.8	A	0.4	H22-020-A19-DIN6
	22	50.686	46.686	22	30	28	30	6	24.8	B	0.3	H22-020-B22-DIN6
	22	50.686	46.686	22	36	28	56	6	24.8	A	0.4	H22-020-A22-DIN6
	25	57.052	53.052	22	30	28	30	6	24.8	B	0.3	H25-020-B22-DIN6
	25	57.052	53.052	22	36	28	56	6	24.8	A	0.5	H25-020-A22-DIN6
	25	57.052	53.052	25	36	28	30	8	28.3	B	0.4	H25-020-B25-DIN6
	28	63.418	59.418	19	30	28	30	6	21.8	B	0.4	H28-020-B19-DIN6
	28	63.418	59.418	19	30	28	56	6	21.8	A	0.6	H28-020-A19-DIN6

			分度圆 d	d1H6	d2	B	L	WJS9	H	图 Fig.	重量 kg	
2	28	63.418	59.418	22	30	28	30	6	24.8	B	0.4	H28-020-B22-DIN6
	28	63.418	59.418	22	36	28	56	6	24.8	A	0.7	H28-020-A22-DIN6
	30	67.662	63.662	30	45	28	30	8	33.3	B	0.6	H30-020-B30-DIN6
	30	67.662	63.662	30	50	28	60	8	33.3	A	0.8	H30-020-A30-DIN6
	32	71.906	67.906	22	30	28	30	6	24.8	B	0.7	H32-020-B22-DIN6
	32	71.906	67.906	22	36	28	56	6	24.8	A	0.9	H32-020-A22-DIN6
	32	71.906	67.906	25	36	28	30	8	28.3	B	0.7	H32-020-B25-DIN6
	32	71.906	67.906	35	48	28	30	10	38.3	B	0.6	H32-020-B35-DIN6
3	20	69.661	63.662	30	45	28	30	8	33.3	B	0.8	H20-030-B30-DIN6
	20	69.661	63.662	30	50	28	60	8	33.3	A	0.8	H20-030-A30-DIN6
	22	76.028	70.028	25	36	28	30	8	28.3	B	0.8	H22-030-B25-DIN6
	22	76.028	70.028	30	45	28	30	8	33.3	B	0.7	H22-030-B30-DIN6
	22	76.028	70.028	32	55	28	65	10	35.3	A	1.0	H22-030-A32-DIN6
	22	76.028	70.028	35	48	28	30	10	38.3	B	0.7	H22-030-B35-DIN6
	25	85.578	79.578	25	36	28	30	8	28.3	B	1.0	H25-030-B25-DIN6
	25	85.578	79.578	25	44	28	60	8	28.3	A	1.1	H25-030-A25-DIN6
	25	85.578	79.578	32	55	28	65	10	35.3	A	1.2	H25-030-A32-DIN6
	25	85.578	79.578	35	48	28	30	10	38.3	B	0.9	H25-030-B35-DIN6
	25	85.578	79.578	35	55	28	65	10	38.3	A	1.1	H25-030-A35-DIN6
	25	85.578	79.578	40	62	28	65	12	43.3	B	1.1	H25-030-B40-DIN6
	25	85.578	79.578	40	70	28	50	12	43.3	A	1.1	H25-030-A40-DIN6
	32	107.859	101.859	32	55	28	65	10	35.3	A	2.1	H32-030-A32-DIN6
	32	107.859	101.859	40	62	28	65	12	43.3	A	2.1	H32-030-A40-DIN6
4	20	92.883	84.883	35	52	40	50	10	38.3	B	1.9	H20-040-B35-DIN6
	21	97.127	89.127	32	55	40	75	10	35.3	A	2.0	H21-040-A32-DIN6
	21	97.127	89.127	35	55	40	75	10	38.3	A	1.9	H21-040-A35-DIN6
	21	97.127	89.127	40	62	40	75	12	43.3	A	1.9	H21-040-A40-DIN6
	21	97.127	89.127	45	68	40	75	14	48.8	A	1.7	H21-040-A45-DIN6
	24	109.859	101.859	32	55	40	75	10	35.3	A	2.6	H24-040-A32-DIN6
	24	109.859	101.859	35	55	40	75	10	38.3	A	2.5	H24-040-A35-DIN6
	24	109.859	101.859	45	68	40	75	14	48.8	A	2.3	H24-040-A45-DIN6
	25	114.103	106.103	45	65	40	50	14	48.8	B	2.8	H25-040-B45-DIN6
5	18	105.493	95.493	45	68	50	85	14	48.8	A	2.7	H18-050-A45-DIN6
	24	137.324	127.324	45	68	50	85	14	48.8	A	4.9	H24-050-A45-DIN6
	24	137.324	127.324	55	80	50	90	16	59.3	A	4.9	H24-050-A55-DIN6
6	20	139.324	127.324	55	80	60	100	16	59.3	A	5.7	H20-060-A55-DIN6
	25	171.155	159.155	75	110	60	120	20	79.9	A	9.6	H25-060-A75-DIN6
8	20	185.766	169.766	85	125	80	145	22	90.4	A	13.6	H20-080-A85-DIN6
10	20	232.207	212.207	85	125	100	165	22	90.4	A	26.2	H20-100-A85-DIN6

斜齿铣齿齿轮
HELICAL TEETH MILLED GEARS
DIN10

规格 Specifications			
精度等级 Quality	DIN10e25	齿形标准 Gear Standard	DIN867
材料 Material	20CrMnTi / 40Cr	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	铣齿 Milled	左旋角 Left Helix Angle	19°31'42"
热处理方式 Heat treatment	渗碳淬火 / 齿部高频 Case hardened HRC55-60 / Induction-hardened HRC50-55		

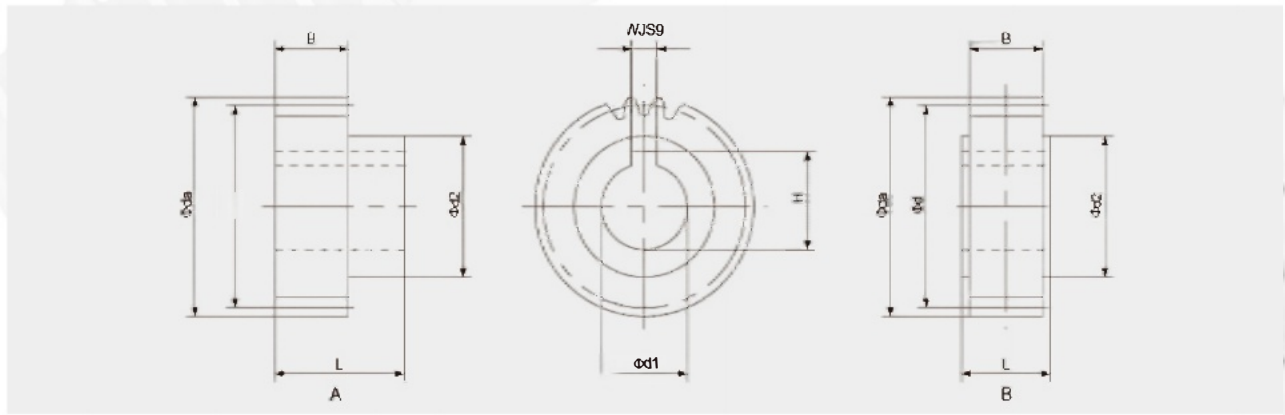


模数 Module				d1H6	d2	B	L	WJS9		图 Fig.		
1.5	20	34.831	31.831	16	25	20	22	5	18.3	B	0.13	H20-015-B16-DIN10
	21	36.423	33.423	16	30	20	46	5	18.3	A	0.15	H21-015-A16-DIN10
2	20	46.441	42.441	19	30	28	30	6	21.8	B	0.3	H20-020-B19-DIN10
	20	46.441	42.441	19	30	28	56	6	21.8	A	0.3	H20-020-A19-DIN10
	20	46.441	42.441	22	30	28	30	6	24.8	B	0.3	H20-020-B22-DIN10
	20	46.441	42.441	22	36	28	56	6	24.8	A	0.3	H20-020-A22-DIN10
	22	50.686	46.686	19	30	28	30	6	21.8	B	0.2	H22-020-B19-DIN10
	22	50.686	46.686	19	30	28	56	6	21.8	A	0.4	H22-020-A19-DIN10
	22	50.686	46.686	22	30	28	30	6	24.8	B	0.3	H22-020-B22-DIN10
	22	50.686	46.686	22	36	28	56	6	24.8	A	0.4	H22-020-A22-DIN10
	25	57.052	53.052	22	30	28	30	6	24.8	B	0.3	H25-020-B22-DIN10
	25	57.052	53.052	22	36	28	56	6	24.8	A	0.5	H25-020-A22-DIN10
	25	57.052	53.052	25	36	28	30	8	28.3	B	0.4	H25-020-B25-DIN10
	28	63.418	59.418	19	30	28	30	6	21.8	B	0.4	H28-020-B19-DIN10
	28	63.418	59.418	19	30	28	56	6	21.8	A	0.6	H28-020-A19-DIN10

				d1H6	d2	B	L	WJS9	H	图 Fig.		
2	28	63.418	59.418	22	30	28	30	6	24.8	B	0.4	H28-020-B22-DIN10
	28	63.418	59.418	22	36	28	56	6	24.8	A	0.7	H28-020-A22-DIN10
	30	67.662	63.662	30	45	28	30	8	33.3	B	0.6	H30-020-B30-DIN10
	30	67.662	63.662	30	50	28	60	8	33.3	A	0.8	H30-020-A30-DIN10
	32	71.906	67.906	22	30	28	30	6	24.8	B	0.7	H32-020-B22-DIN10
	32	71.906	67.906	22	36	28	56	6	24.8	A	0.9	H32-020-A22-DIN10
	32	71.906	67.906	25	36	28	30	8	28.3	B	0.7	H32-020-B25-DIN10
	32	71.906	67.906	35	48	28	30	10	38.3	B	0.6	H32-020-B35-DIN10
3	20	69.661	63.662	30	45	28	30	8	33.3	B	0.8	H20-030-B30-DIN10
	20	69.661	63.662	30	50	28	60	8	33.3	A	0.8	H20-030-A30-DIN10
	22	76.028	70.028	25	36	28	30	8	28.3	B	0.8	H22-030-B25-DIN10
	22	76.028	70.028	30	45	28	30	8	33.3	B	0.7	H22-030-B30-DIN10
	22	76.028	70.028	32	55	28	65	10	35.3	A	1.0	H22-030-A32-DIN10
	22	76.028	70.028	35	48	28	30	10	38.3	B	0.7	H22-030-B35-DIN10
	25	85.578	79.578	25	36	28	30	8	28.3	B	1.0	H25-030-B25-DIN10
	25	85.578	79.578	25	44	28	60	8	28.3	A	1.1	H25-030-A25-DIN10
	25	85.578	79.578	32	55	28	65	10	35.3	A	1.2	H25-030-A32-DIN10
	25	85.578	79.578	35	48	28	30	10	38.3	B	0.9	H25-030-B35-DIN10
	25	85.578	79.578	35	55	28	65	10	38.3	A	1.1	H25-030-A35-DIN10
	25	85.578	79.578	40	62	28	65	12	43.3	B	1.1	H25-030-B40-DIN10
	25	85.578	79.578	40	70	28	50	12	43.3	A	1.1	H25-030-A40-DIN10
	32	107.859	101.859	32	55	28	65	10	35.3	A	2.1	H32-030-A32-DIN10
	32	107.859	101.859	40	62	28	65	12	43.3	A	2.1	H32-030-A40-DIN10
4	20	92.883	84.883	35	52	40	50	10	38.3	B	1.9	H20-040-B35-DIN10
	21	97.127	89.127	32	55	40	75	10	35.3	A	2.0	H21-040-A32-DIN10
	21	97.127	89.127	35	55	40	75	10	38.3	A	1.9	H21-040-A35-DIN10
	21	97.127	89.127	40	62	40	75	12	43.3	A	1.9	H21-040-A40-DIN10
	21	97.127	89.127	45	68	40	75	14	48.8	A	1.7	H21-040-A45-DIN10
	24	109.859	101.859	32	55	40	75	10	35.3	A	2.6	H24-040-A32-DIN10
	24	109.859	101.859	35	55	40	75	10	38.3	A	2.5	H24-040-A35-DIN10
	24	109.859	101.859	45	68	40	75	14	48.8	A	2.3	H24-040-A45-DIN10
5	25	114.103	106.103	45	65	40	50	14	48.8	B	2.8	H25-040-B45-DIN10
	18	105.493	95.493	45	68	50	85	14	48.8	A	2.7	H18-050-A45-DIN10
	24	137.324	127.324	45	68	50	85	14	48.8	A	4.9	H24-050-A45-DIN10
6	24	137.324	127.324	55	80	50	90	16	59.3	A	4.9	H24-050-A55-DIN10
	20	139.324	127.324	55	80	60	100	16	59.3	A	5.7	H20-060-A55-DIN10
8	25	171.155	159.155	75	110	60	120	20	79.9	A	9.6	H25-060-A75-DIN10
	20	185.766	169.766	85	125	80	145	22	90.4	A	13.6	H20-080-A85-DIN10
10	20	232.207	212.207	85	125	100	165	22	90.4	A	26.2	H20-100-A85-DIN10

直齿磨齿齿轮
STRAIGHT TEETH GROUND GEARS
DIN6

精度等级 Quality	DIN6e25	齿形标准 Gear Standard	DIN867
材料 Material	20CrMnTi / 40Cr	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	磨齿 Ground	左旋角 Left Helix Angle	0°
热处理方式 Heat treatment	渗碳淬火 / 齿部高频 Case hardened HRC55-60 / Induction-hardened HRC50-55		

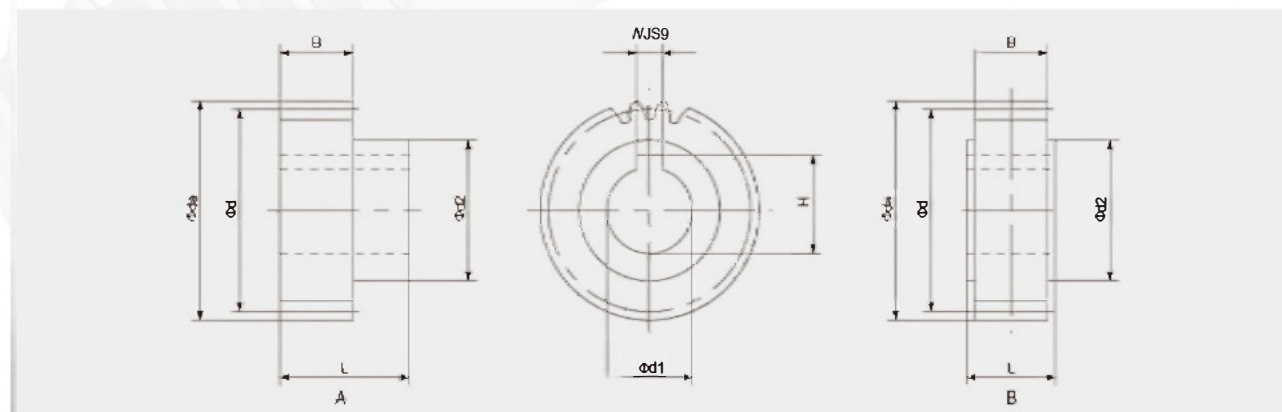


				d1H6	d2	B	L	WJS9	H	图 Fig.		
1.5	20	33	30	14	25	20	22	5	16.3	B	0.1	S20-015-B14-DIN6
	20	33	30	16	25	20	22	5	18.3	B	0.13	S21-015-B16-DIN6
2	20	44	40	19	30	28	30	6	21.8	B	0.2	S20-020-B19-DIN6
	20	44	40	19	30	28	56	6	21.8	A	0.2	S20-020-A19-DIN6
	20	44	40	22	30	28	30	6	24.8	B	0.2	S20-020-B22-DIN6
	20	44	40	22	36	28	56	6	24.8	A	0.3	S20-020-A22-DIN6
	22	48	44	19	30	28	30	6	21.8	B	0.3	S22-020-B19-DIN6
	22	48	44	19	30	28	56	6	21.8	A	0.3	S22-020-A19-DIN6
	22	48	44	22	30	28	30	6	24.8	B	0.2	S22-020-B22-DIN6
	22	48	44	22	36	28	56	6	24.8	A	0.2	S22-020-A22-DIN6
	25	54	50	22	30	28	30	6	24.8	B	0.3	S25-020-B22-DIN6
	25	54	50	22	36	28	56	6	24.8	A	0.4	S25-020-A22-DIN6
	25	54	50	25	36	28	30	8	28.3	B	0.3	S25-020-B25-DIN6
	28	60	56	19	30	28	30	8	21.8	B	0.5	S28-020-B19-DIN6
	28	60	56	19	30	28	56	8	21.8	A	0.5	S28-020-A19-DIN6

	齿数 Z			d1H6	d2	B	L	WJS9	H			
2	28	60	56	22	30	28	30	6	24.8	B	0.3	S28-020-B22-DIN6
	28	60	56	22	36	28	56	6	24.8	A	0.3	S28-020-A22-DIN6
	28	60	56	25	36	28	30	8	28.3	B	0.4	S28-020-B25-DIN6
	28	60	56	30	45	28	30	8	33.3	B	0.4	S28-020-B30-DIN6
	28	60	56	30	50	28	60	8	33.3	A	0.4	S28-020-A30-DIN6
	32	68	64	22	30	28	30	6	24.8	B	0.4	S32-020-B22-DIN6
	32	68	64	22	36	28	56	6	24.8	A	0.6	S32-020-A22-DIN6
	32	68	64	25	36	28	30	8	28.3	B	0.6	S32-020-B25-DIN6
3	20	66	60	25	36	28	30	8	28.3	B	0.5	S20-030-B25-DIN6
	20	66	60	30	45	28	30	8	33.3	B	0.5	S20-030-B30-DIN6
	22	72	66	25	44	28	60	8	28.3	A	0.9	S22-030-A25-DIN6
	22	72	66	30	50	28	30	8	33.3	A	0.9	S22-030-A30-DIN6
	22	72	66	32	55	28	65	10	35.3	A	1.0	S22-030-A32-DIN6
	22	72	66	35	48	28	30	10	38.3	B	0.6	S22-030-B35-DIN6
	25	81	75	25	36	28	30	8	28.3	B	0.9	S25-030-B25-DIN6
	25	81	75	30	45	28	30	8	33.3	B	0.8	S25-030-B30-DIN6
	25	81	75	32	55	28	65	10	35.3	A	1.2	S25-030-A32-DIN6
	25	81	75	35	48	28	30	10	38.3	B	0.8	S25-030-B35-DIN6
	25	81	75	40	62	28	65	12	43.3	A	1.2	S25-030-A40-DIN6
	25	81	75	45	58	28	30	14	48.8	B	0.6	S25-030-B45-DIN6
	28	90	84	32	55	28	65	10	35.3	A	1.5	S28-030-A32-DIN6
	28	90	84	40	62	28	65	12	43.3	A	1.4	S28-030-A40-DIN6
4	20	88	80	35	52	40	50	10	38.3	B	1.2	S20-040-B35-DIN6
	22	96	88	35	52	40	50	10	38.3	B	1.5	S22-040-B35-DIN6
	22	96	88	45	65	40	50	14	48.8	B	1.7	S22-040-B45-DIN6
	22	96	88	45	68	40	75	14	48.8	A	2.0	S22-040-A45-DIN6
	25	108	100	35	52	40	50	10	38.3	B	2.2	S25-040-B35-DIN6
	25	108	100	35	55	40	75	10	38.3	A	2.5	S25-040-A35-DIN6
	25	108	100	40	62	40	75	12	43.3	A	2.5	S25-040-A40-DIN6
	28	120	112	45	65	40	50	14	48.8	B	2.0	S28-040-B45-DIN6
	28	120	112	45	68	40	75	14	48.8	A	2.5	S28-040-A45-DIN6
5	21	115	105	45	68	50	85	14	48.8	A	3.7	S21-050-A45-DIN6
	25	135	125	45	68	50	85	14	48.8	A	5.2	S25-050-A45-DIN6
	25	135	125	55	80	50	90	16	59.3	A	5.1	S25-050-A55-DIN6
6	21	138	126	75	110	60	120	20	79.9	A	4.7	S21-060-A75-DIN6
	25	162	150	75	110	60	120	20	79.9	A	7.1	S25-060-A75-DIN6
8	20	176	160	85	125	80	145	22	90.4	A	12.1	S20-080-A85-DIN6
10	20	220	200	85	125	100	165	22	90.4	A	23	S20-100-A85-DIN6

直齿铣齿齿轮
STRAIGHT TEETH MILLED GEARS
DIN10

精度等级 Quality	DIN10e25	齿形标准 Gear Standard	DIN867
材料 Material	20CrMnTi / 40Cr	压力角 Pressure Angle	20°
齿面处理 Teeth Treatment	铣齿 Milled	左旋角 Left Helix Angle	0°
热处理方式 Heat treatment	渗碳淬火 / 齿部高频 Case hardened HRC55-60 / Induction-hardened HRC50-55		



				d1H6	d2	B	L	WJS9	H	图 Fig.		
1.5	20	33	30	14	25	20	22	5	16.3	B	0.1	S20-015-B14-DIN10
	20	33	30	16	25	20	22	5	18.3	B	0.13	S21-015-B16-DIN10
2	20	44	40	19	30	28	30	6	21.8	B	0.2	S20-020-B19-DIN10
	20	44	40	19	30	28	56	6	21.8	A	0.2	S20-020-A19-DIN10
	20	44	40	22	30	28	30	6	24.8	B	0.2	S20-020-B22-DIN10
	20	44	40	22	36	28	56	6	24.8	A	0.3	S20-020-A22-DIN10
	22	48	44	19	30	28	30	6	21.8	B	0.3	S22-020-B19-DIN10
	22	48	44	19	30	28	56	6	21.8	A	0.3	S22-020-A19-DIN10
	22	48	44	22	30	28	30	6	24.8	B	0.2	S22-020-B22-DIN10
	22	48	44	22	36	28	56	6	24.8	A	0.2	S22-020-A22-DIN10
	25	54	50	22	30	28	30	6	24.8	B	0.3	S25-020-B22-DIN10
	25	54	50	22	36	28	56	6	24.8	A	0.4	S25-020-A22-DIN10
	25	54	50	25	36	28	30	8	28.3	B	0.3	S25-020-B25-DIN10
	28	60	56	19	30	28	30	8	21.8	B	0.5	S28-020-B19-DIN10
	28	60	56	19	30	28	56	8	21.8	A	0.5	S28-020-A19-DIN10

				d1H6	d2	B	L	WJS9	H			
2	28	60	56	22	30	28	30	6	24.8	B	0.3	S28-020-B22-DIN10
	28	60	56	22	36	28	56	6	24.8	A	0.3	S28-020-A22-DIN10
	28	60	56	25	36	28	30	8	28.3	B	0.4	S28-020-B25-DIN10
	28	60	56	30	45	28	30	8	33.3	B	0.4	S28-020-B30-DIN10
	28	60	56	30	50	28	60	8	33.3	A	0.4	S28-020-A30-DIN10
	32	68	64	22	30	28	30	6	24.8	B	0.4	S32-020-B22-DIN10
	32	68	64	22	36	28	56	6	24.8	A	0.6	S32-020-A22-DIN10
	32	68	64	25	36	28	30	8	28.3	B	0.6	S32-020-B25-DIN10
3	20	66	60	25	36	28	30	8	28.3	B	0.5	S20-030-B25-DIN10
	20	66	60	30	45	28	30	8	33.3	B	0.5	S20-030-B30-DIN10
	22	72	66	25	44	28	60	8	28.3	A	0.9	S22-030-A25-DIN10
	22	72	66	30	50	28	30	8	33.3	A	0.9	S22-030-A30-DIN10
	22	72	66	32	55	28	65	10	35.3	A	1.0	S22-030-A32-DIN10
	22	72	66	35	48	28	30	10	38.3	B	0.6	S22-030-B35-DIN10
	25	81	75	25	36	28	30	8	28.3	B	0.9	S25-030-B25-DIN10
	25	81	75	30	45	28	30	8	33.3	B	0.8	S25-030-B30-DIN10
	25	81	75	32	55	28	65	10	35.3	A	1.2	S25-030-A32-DIN10
	25	81	75	35	48	28	30	10	38.3	B	0.8	S25-030-B35-DIN10
	25	81	75	40	62	28	65	12	43.3	A	1.2	S25-030-A40-DIN10
	25	81	75	45	58	28	30	14	48.8	B	0.6	S25-030-B45-DIN10
	28	90	84	32	55	28	65	10	35.3	A	1.5	S28-030-A32-DIN10
	28	90	84	40	62	28	65	12	43.3	A	1.4	S28-030-A40-DIN10
	20	88	80	35	52	40	50	10	38.3	B	1.2	S20-040-B35-DIN10
	22	96	88	35	52	40	50	10	38.3	B	1.5	S22-040-B35-DIN10
4	22	96	88	45	65	40	50	14	48.8	B	1.7	S22-040-B45-DIN10
	22	96	88	45	68	40	75	14	48.8	A	2.0	S22-040-A45-DIN10
	25	108	100	35	52	40	50	10	38.3	B	2.2	S25-040-B35-DIN10
	25	108	100	35	55	40	75	10	38.3	A	2.5	S25-040-A35-DIN10
	25	108	100	40	62	40	75	12	43.3	A	2.5	S25-040-A40-DIN10
	28	120	112	45	65	40	50	14	48.8	B	2.0	S28-040-B45-DIN10
	28	120	112	45	68	40	75	14	48.8	A	2.5	S28-040-A45-DIN10
	21	115	105	45	68	50	85	14	48.8	A	3.7	S21-050-A45-DIN10
5	25	135	125	45	68	50	85	14	48.8	A	5.2	S25-050-A45-DIN10
	25	135	125	55	80	50	90	16	59.3	A	5.1	S25-050-A55-DIN10
6	21	138	126	75	110	60	120	20	79.9	A	4.7	S21-060-A75-DIN10
	25	162	150	75	110	60	120	20	79.9	A	7.1	S25-060-A75-DIN10
8	20	176	160	85	125	80	145	22	90.4	A	12.1	S20-080-A85-DIN10
10	20	220	200t	85	125	100	165	22	90.4	A	23	S20-100-A85-DIN10

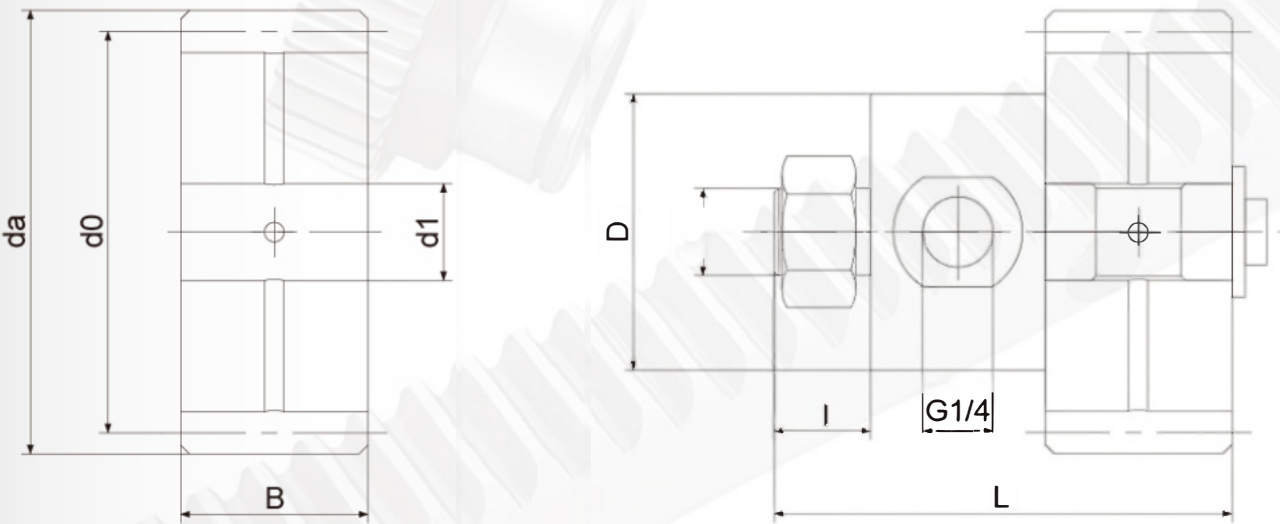
毛毡齿轮
FELT GEARS

毛毡齿轮是一种毛毡材料的润滑齿轮,常配合自动润滑系统使用,与齿轮或齿条啮合,定时定量的补充润滑脂,保持啮合区域的润滑质量。

Felt gear is a kind of lubricated gear of felt material, often used with automatic lubrication system, meshing with gear or rack, adding grease regularly and quantitatively to maintain the lubrication quality of the meshing area.



F	齿数		旋向 Direction	模数 Module			系列
	1	8		0	8	0	
F=毛毡齿轮 Felt Gear	18=18teeth		S=直 Straight L=左 Left R=右 Right	080=m8			DZ: 带轴 With shaft —: 无轴 Without shaft



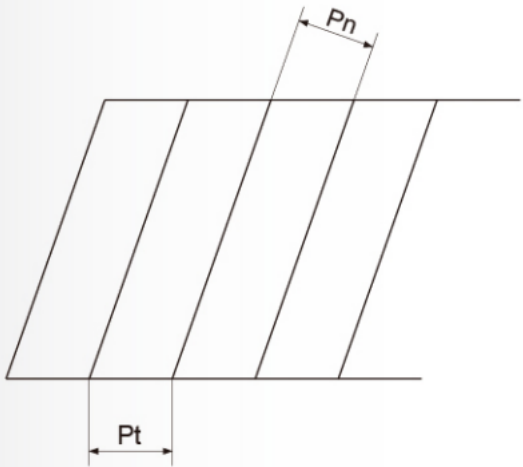
毛毡齿轮 Felt Gears								安装轴 Mounting shaft			
	齿数 Z					齿宽 B		D	S	I	L
1.5	26	S	42	39.0	12	19	F26S-015	30	M10	10	60
1.5	24	L	42	38.2	12	19	F24L-015	30	M10	10	60
1.5	24	R	42	38.2	12	19	F24R-015	30	M10	10	60
2	19	S	42	38.0	12	25	F19S-020	30	M10	10	62
2	18	L	42	38.2	12	25	F18L-020	30	M10	10	62
2	18	R	42	38.2	12	25	F18R-020	30	M10	10	62
3	19	S	63	57.0	12	30	F19S-030	30	M10	10	65
3	18	L	63	57.3	12	30	F18L-030	30	M10	10	65
3	18	R	63	57.3	12	30	F18R-030	30	M10	10	65
4	19	S	84	76.0	12	40	F19S-040	30	M10	15	80
4	18	L	84.4	76.4	12	40	F18L-040	30	M10	15	80
4	18	R	84.4	76.4	12	40	F18R-040	30	M10	15	80
5	18	S	100	90.0	20	50	F18S-050	50	M12	15	90
5	17	L	100.2	90.2	20	50	F17L-050	50	M12	15	90
5	17	R	100.2	90.2	20	50	F17R-050	50	M12	15	90
6	18	S	120	108.0	20	60	F18S-060	50	M12	15	100
6	17	L	120.2	108.2	20	60	F17L-060	50	M12	15	100
6	17	R	120.2	108.2	20	60	F17R-060	50	M12	15	100
8	18	S	160	144.0	20	80	F18S-080	50	M12	15	120
8	17	L	160	144.3	20	80	F17L-080	50	M12	15	120
8	17	R	160	144.3	20	80	F17R-080	50	M12	15	120
10	18	S	200	180.0	25	100	F18S-100	50	M12	15	125
10	17	L	200	180.4	25	100	F17L-100	50	M12	15	125
10	17	R	200	180.4	25	100	F17R-100	50	M12	15	125

技术资料目录
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模数节距对照表
CONVERSION TABLE FOR GEAR PITCH AND MODULE

模数	法向节距 Pn	横向节距 Pt
1.5	4.7124	5.0000
2	6.2832	6.6667
3	9.4248	10.0000
4	12.5664	13.3334
5	15.7080	16.6667
6	18.8496	20.0000
8	25.1327	26.6667
10	31.4159	33.3334



Pn:法向节距 Normal pitch
定制齿条长度时,推荐选用整齿数
When customizing the length of the rack, it is recommended to choose the number of complete teeth

Pt:横向节距, (斜齿)
Transverse pitch (for helical teeth)

齿条精度公差表
RACK ACCURACY TOLERANCE TABLE

DIN5			
模数 Module	1000mm直线度 Straightness (mm)	单齿距误差 fpe (μm)	1000mm齿距累计误差 Fp (μm)
1.5	0.02	6	25
2	0.02	6	25
3	0.02	6	25
4	0.02	7	28
5	0.02	7	28
6	0.02	7	28
8	0.02	8	31
10	0.02	8	31

DIN6			
模数 Module	1000mm直线度 Straightness (mm)	单齿距误差 fpe (μm)	1000mm齿距累计误差 Fp (μm)
1.5	0.03	8	32
2	0.03	8	32
3	0.03	8	36
4	0.03	10	40
5	0.03	10	40
6	0.03	10	40
8	0.03	11	40
10	0.03	11	40

直线度需在平坦表面上固定安装的情况下测量
Straightness is measured when the racks fixed on a flat surface

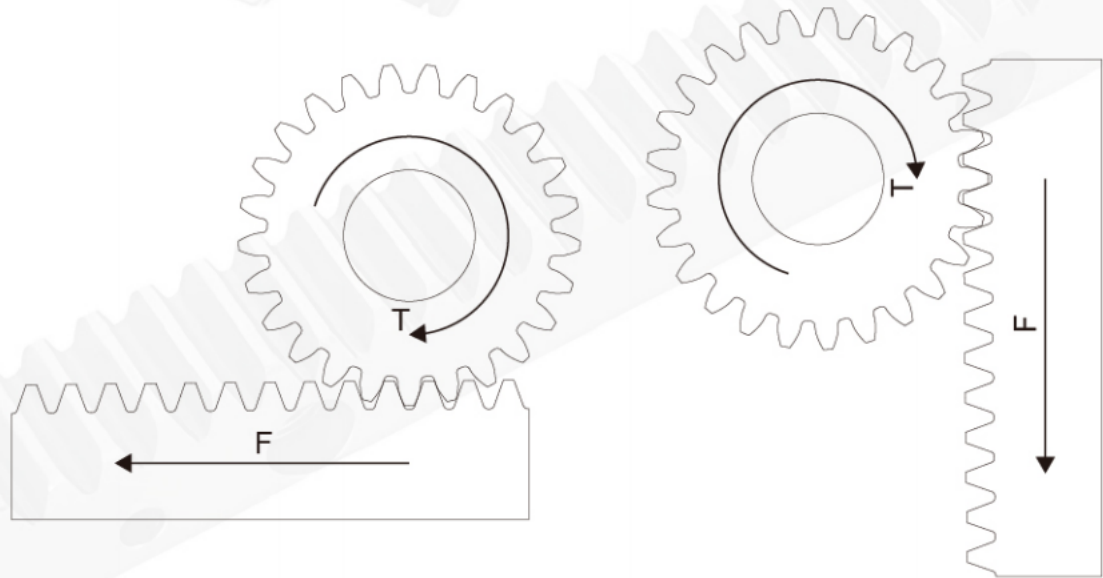
齿条精度公差表
RACK ACCURACY TOLERANCE TABLE

DIN8			
模数 Module	1000mm直线度 Straightness (mm)	单齿距误差 fpe (μm)	1000mm齿距累计误差 Fp (μm)
1.5	0.06	16	63
2	0.06	16	63
3	0.06	16	71
4	0.06	20	80
5	0.06	20	80
6	0.06	20	80
8	0.06	22	80
10	0.06	22	80

DIN10			
模数 Module	1000mm直线度 Straightness (mm)	单齿距误差 fpe (μm)	1000mm齿距累计误差 Fp (μm)
1.5	0.08	36	140
2	0.08	36	140
3	0.08	36	160
4	0.08	45	180
5	0.08	45	180
6	0.08	45	180
8	0.08	50	180
10	0.08	50	180

直线度需在平坦表面上固定安装的情况下测量
Straightness is measured when the racks fixed on a flat surface

计算选型
CALCULATION AND SELECTION



overload factor			safety factor
fl	工作制	fc	fs
均匀载荷 fl=1 交变载荷 fl=1.55	<8h/24h	1	1.1-2
	8-12h/24h	1.2	
	>12h/24h	1.35	
param	移动负载/moving load	kg	m
	加速度/accelerated speed	m/s ²	a=u/60÷t
	摩擦系数/coefficient of friction	-	μ=0.1
	重力加速度/acceleration of gravity	m/s ²	g=9.8
	移动速度/movement speed	m/min	u
	加速时间/acceleration time	sec	t
	齿轮分度圆直径/Gear pitch diameter	mm	d0
Calc	公式 Formula		
	水平移动/Horizontal movement	垂直移动/Vertical movement	
驱动力/driving force N	Fu=m×g×μ+m×a	Fu=m×g+m×a	
扭矩/torque Nm	Tu=Fu×d0÷2000		
转速/speed rpm	n=u×1000÷π÷d0		
选型条件/condition	FuTab≥Fu×fl×fc×fs		
FuTab: 最大驱动力 (根据此参数, 在最大驱动力表中选择合适的齿轮齿条) Max driving force (According to this parameter, select the appropriate rack and gear in the max driving force table)			

计算举例
CALCULATING EXAMPLE

	移动负载/moving load	kg	300
	加速度/accelerated speed	m/s ²	4
	摩擦系数/coefficient of friction	-	0.1
	重力加速度/acceleration of gravity	m/s ²	9.81
	移动速度/movement speed	m/min	64.8
	加速时间/acceleration time	sec	0.27
	齿轮分度圆直径/Gear pitch diameter	mm	40
	公式 Formula		
	水平移动/Horizontal movement	垂直移动/Vertical movement	
驱动力/driving force N	300x9.81x0.1+300x4=1494.3		300x9.81+300x4=4143
扭矩/torque Nm	1494.3x40/2000=29.89		4143x40/2000=82.86
速度/speed rpm	64.8x1000/3.14/40=515.92		
效率 efficient	取载荷系数fl=1；寿命系数fc=1.2；安全系数fs=1.5		
	水平移动 Horizontal movement		FuTab≥1494.3×1×1.2×1.5=2689.74N
	垂直移动 Vertical movement		FuTab≥4143.0×1×1.2×1.5=7457.40N
	水平移动：可选用m1.5斜齿条DIN6;m2.0斜齿条DIN8调质处理..... Horizontal movement: m1.5 helical rack DIN6 can be selected; m2.0 helical Rack DIN8 tempering....		
	垂直移动：可选用m2.0斜齿条DIN6;m3.0斜齿条DIN8调质处理 . Vertical movement: m2.0 helical rack DIN6 can be selected; m3.0 helical Rack DIN8 tempering.....		

齿轮齿条最大驱动力表
TABLE FOR MAX DRIVING FORCE
斜齿 HELICAL TEETH

最大驱动力 Max driving force										
精度 Quality			DIN6	齿条 Rack	DIN5	DIN6	DIN8		DIN10	
材质 Material			20CrMnTi		C45	C45	C45	C45	42CrMo	C45
热处理 Hardness			渗碳淬火 Case hardened		齿面高频 Induction hardened	齿面高频 Induction hardened	—	调质 Quenched and tempered	调质 Quenched and tempered	齿面高频 Induction hardened
说明：表格数据依据DIN990标准按齿强度 (1) $\sigma_F = \sqrt{\frac{W_F \times \frac{u+1}{u} \times x_F \times x_Z \times \sigma_H}{Z_s}}$ 计算获得，以供参考。约束条件为：良好润滑下，运行速度1.5m/s，齿根安全系数1.4，齿面安全系数1.4，寿命达到20000h。	模数	齿数	节圆直径		最大驱动力 N Max driving force					
	Module	Z	dw							
	1.5	20	31.831		5750	5150	605	995	1500	1640
		21	33.423		5950	5350	650	1050	1635	1680
	2	20	42.441		9945	8925	920	1665	2100	3010
		22	46.686		10010	9350	1400	2100	2320	3260
		25	53.052		10940	9750	1800	2450	3170	3320
		28	59.418		10990	9800	2000	2650	4170	3430
		30	63.661		11020	9860	2165	2950	4400	3650
		32	67.906		11050	9910	2220	3200	4500	3740
	3	20	63.662		16760	16450	2320	3430	5300	8120
		22	70.028		16820	16520	2690	4320	6690	8300
		25	79.579		16950	16550	3740	5750	8900	8500
		32	101.859		17050	16670	4550	6950	10750	8650
	4	20	84.883		30100	30090	4790	8398	12920	14390
		21	89.127		30250	30150	5580	9300	14330	14400
		24	101.859		30400	30200	8390	12190	18800	14700
		25	106.103		30400	30200	9390	12500	19300	14810
	5	18	95.493		53350	48310	11500	15500	24000	28490
		24	127.324		58100	52350	13650	24300	30900	35000
	6	20	127.324		69020	69000	21700	29250	45370	47270
		25	159.155		72100	72050	33500	45200	61000	49490
	8	20	169.766		126450	126450	46000	62100	96200	93350
	10	20	212.207		193420	193420	85600	115500	179050	143350

齿轮齿条最大驱动力表
TABLE FOR MAX DRIVING FORCE
直齿 STRAIGHT TEETH

最大驱动力 Max driving force										
			DIN6	齿条 Rack	DIN5	DIN6	DIN8		DIN10	
材质 Material			20CrMnTi		C45	C45	C45	C45	42CrMo	C45
热处理 Hardness			渗碳淬火 Case hardened		齿面高频 Induction hardened	齿面高频 Induction hardened	—	调质 Quenched and tempered	调质 Quenched and tempered	齿面高频 Induction hardened
说明：1 数据依据 DIN990标准，根据公式 (1) $\sigma_F = \sqrt{\frac{W_{FE}}{b} \times \frac{u+1}{u}} \times Z_F \times Y_F \times Z_S \times Z_B \times Z_H \times Z_E \leq \sigma_{FP}$ (2) $\sigma_F = \frac{W_{FE}}{m} \times Y_F \times Y_B \times Y_C \leq \sigma_F$ 计算获得，以供参考。约束条件为：良好润滑下，运行速度1.5m/s，齿根安全系数1.4，齿面安全系数1.4，寿命达到20000h。	模数	齿数	节圆直径	最大驱动力 N Max driving force						
	Module	Z	dw							
	1.5	20	30		4100	4100	510	760	1170	1230
		21	31.5		4200	4200	540	790	1230	1310
	2	20	40		7010	6980	750	950	1470	2100
		22	44		7050	7045	1050	1000	1560	2170
		25	50		7210	7200	1120	1270	1980	2750
		28	56		7340	7340	1350	1320	2050	3300
		30	60		7390	7380	1550	1510	2370	3850
		32	64		7450	7420	1650	1650	2600	4400
	3	20	60		12050	11800	1800	1850	2850	5120
		22	66		12200	11900	1920	2230	3500	6580
		25	75		12310	12050	2350	3110	4850	6700
		32	96		12400	12150	3470	4630	7220	7400
	4	20	80		24000	23650	3570	5450	8500	11210
		21	84		24050	23700	3720	5650	8770	11280
		24	96		24100	23750	5170	7630	11850	11570
		25	100		24200	23850	5250	7810	12100	11750
	5	18	90		39050	38700	10500	13200	20470	22100
		24	120		39950	39950	14020	18930	29375	22250
	6	20	120		53000	52850	17910	22500	34900	40500
		25	150		55000	54750	20100	25250	39150	41100
	8	20	160		102000	101800	27750	34900	54100	81150
	10	20	200		162000	161800	55750	70100	108700	145000

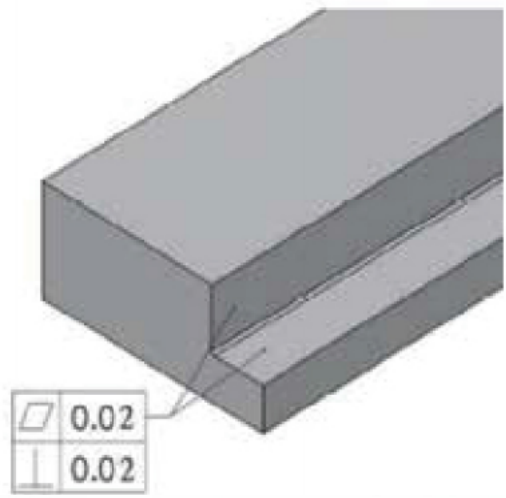
齿轮齿条安装手册
RACK AND GEAR INSTALLATION MANUAL

1. 齿条安装前,检查工件安装面及承靠面的公差是否符合设计标准,一般要求垂直度与平面度 $\leq 0.02\text{mm}$,并清理干净安装面及承靠面。另外,齿条的安装位置已加工倒角,以避免安装时干涉,故加工床台时请注意接触面的圆角尺寸。

各模数齿条倒角请参考下表所示:

Before installing the racks, please check whether the tolerances of the installation surface and bearing surface meet the design requirement, perpendicularity and flatness of machine bed are required to be $\leq 0.02\text{mm}$, and clean the installation surface and bearing surface thoroughly. In addition, the racks have been chamfered to avoid interference during installation, so please also make the rounded corner on the contact surface of the machine bed.

Refer to the following table for each module rack's chamfer.

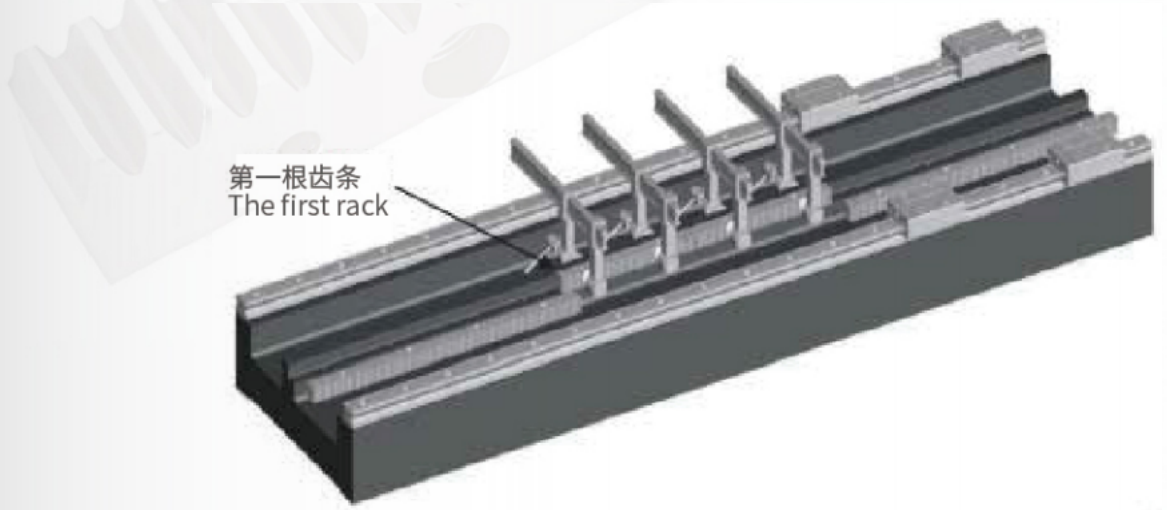


 倒角Chamfer	模数 Module	倒角 Chamfer
	≤ 3	2X45°
	≥ 4	3X45°

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2. 齿条安装应该从床台中间位置往两端安装,假设10根1米的齿条拼接,以第5/6根开始安装,第一根安装的齿条应让螺孔与螺栓尽量保持在同一中心,防止后续齿条出现螺栓与孔位干涉现象;

Racks should be installed from the middle of machine bed towards both sides. For example, if 10 pcs racks installed, normally suggested to instal the No 5th or 6th rack firstly, then to other sides, and make sure the screw holes and bolts should be kept in the same center, in case of any interference phenomenon when assembling the bolts.



3. 安装第一根齿条时,夹具应靠近螺孔位置均匀分布,使齿条完全贴紧承靠面,并由中间螺栓往两边锁紧螺栓。建议使用扭力扳手,按照螺栓的扭力要求锁紧齿条。

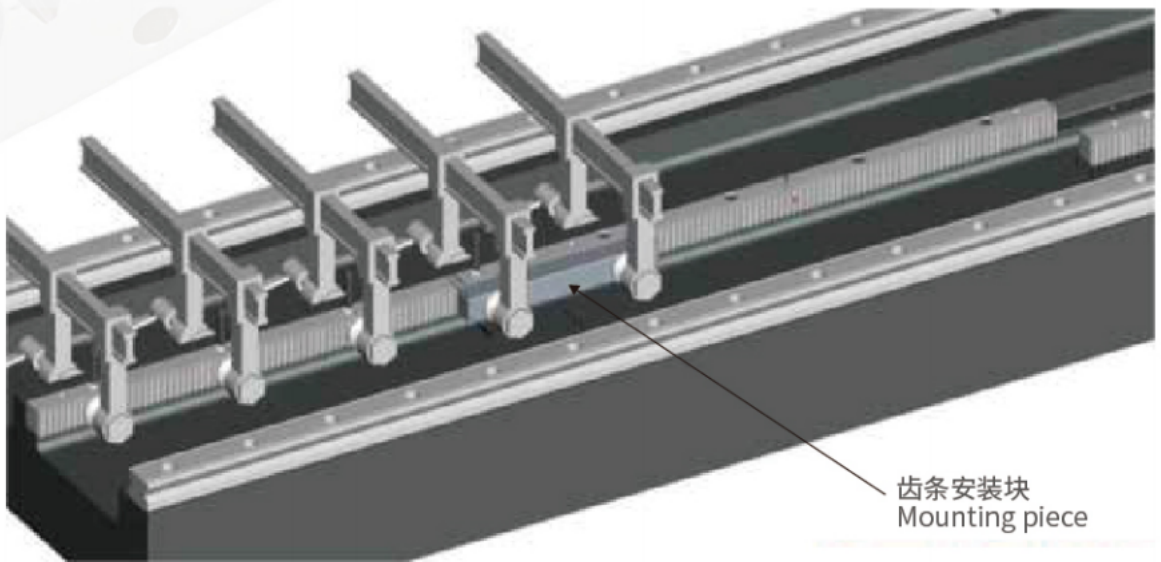
When installing the first rack, fixture should be evenly distributed near the screw holes position, ensuring that the rack is fully pressed against the bearing surface, then tighten the screws with the correct torque as shown in the below table, beginning in the middle then continuing outwards.

级数 Screws12.9	M6	M8	M10	M12	M16	M20	M30	M36
扭矩 Tightening	16	40	80	140	340	660	2300	4100

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4. 安装第二根齿条时,先以百分之十的锁紧力预紧。在拼接处使用安装块,以调整合适的齿条间隙,再以百分之五十的锁紧力锁紧。待调整好齿条拼接间隙,再以建议扭力值锁紧。

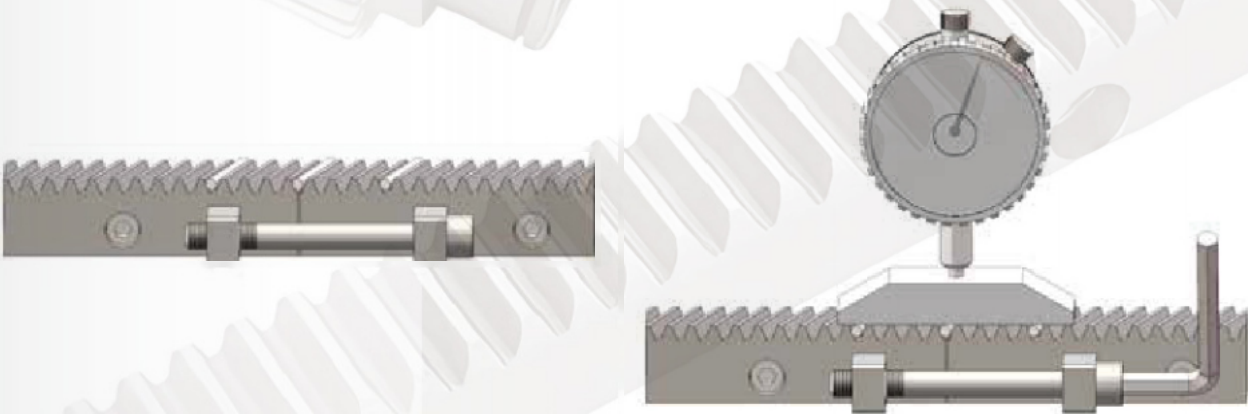
When installing the second rack, first pre-tighten the screws with 10% tightening torque so that align ng is still possible. Insert the mounting piece over the joint to mesh with the teeth of the two racks and tighten it after confirming the tolerance of the racks gap.



注:拼接间隙,可以通过3支测量棒及千分表,通过调整齿条间隙以确保中间测量棒处的测量值在下表所示允许的安装误差之内:

Note: The splicing gap can be determined by adjusting the rack gap With 3pcs measuring pins and dial gauge, to ensure the measuring value at the middle measuring pin is within the below table.

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Q \ M	2	3	4	5	6	8	10
5	±0.007	±0.008	±0.008	±0.008	-	-	-
6	±0.01	±0.011	±0.011	±0.016	±0.016	±0.014	±0.015
6M	±0.014	±0.015	±0.023	±0.023	-	-	-
8	±0.027	±0.03	±0.032	±0.033	-	-	-
10	±0.041	±0.042	±0.045	±0.047	±0.049	-	-
量棒 pinΦ (mm)	3.35	5.3	6.7	8.35	10.55	14	16.71

5. 所有齿条都安装完成时,利用测量棒及千分尺,分别测出每根齿条中间及两端的三个点高低偏差并做记号,并确定该偏差是否在标准公差以内,参考如下表所示;找出其中最高点,以最高点位置为基准安装齿轮;

After all racks installed, to measure three points- the middle and both ends of each rack through neasuring pins and dial gauge, and determine whether the deviation is within the standard tolerance of below table; find the highest point and install the gear based on it.

齿条精度等级 Quality grade of racks	Q5	Q6	Q6M	Q8	Q10
容许偏差	0.02	0.03	0.045	0.065	0.125

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6. 安装定位销;例如齿条上的销孔为 $\Phi 5.7$,则使用的定位销为 $\Phi 6$ 。先在床台上钻 $\Phi 5.7$ 的孔,清除铁屑后,用铰刀扩孔至 $\Phi 6$,再次清除铁屑后,方可将提前准备好的带内螺纹的定位销(方便拆卸)安装上。

Install dowel pins; For example, if the pin hole on the rack is $\Phi 5.7$, firstly drill $\Phi 5.7$ hole on the machine bed and remove iron fillings, then ream the hole of racks and machine bed together to $\Phi 6H7$, Clear the iron fillings again, finally mount the $\Phi 6$ dowel pins with internal thread (for easy disassembling).

7. 将齿轮与减速机组装好,检测齿轮的最高点并标记;

After installing the gear to reducer, measure the highest point of the gear and mark it;

8. 将减速机安装至滑台上,使齿轮最高点与齿条最高点重合,并通过减速机过渡板上的调节机构,初步调整 齿轮齿条的间隙,预紧螺栓;

When installing the reducer onto the slide table, align the highest point of both the gear and the rack. Use the adjustment unit on the reducer to preliminarily adjust the clearance between the gear and the rack, and tighten the bolts.

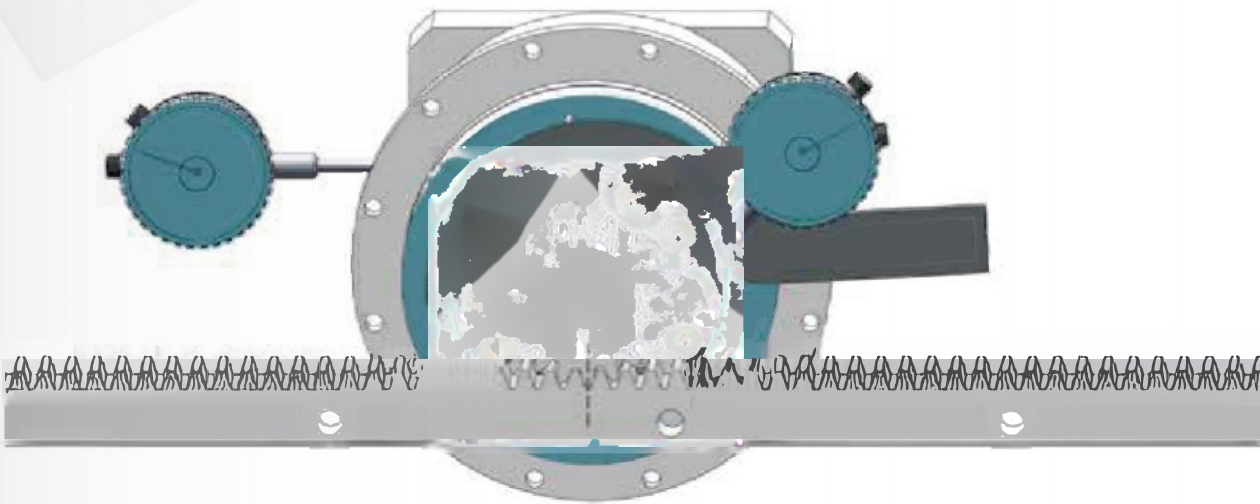


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9. 减速机不移动的状态,通过扳手转动齿轮使其与齿条左右齿腹接触,观察齿轮上的千分表变化数值,该差值即为齿侧间隙,并参考齿轮齿条产品安装要求,是否在其标准区间内,若不满足,再通过滑台上的螺栓调整 至符合标准。

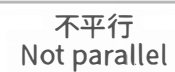
Don't move the reducer but rotate the gear through the wrench to make it contact with the left and right flank of the rack, the change value of the dial gauge on the gear is the backlash, then check whether it's within the tolerance, if not, then adjust it to meet the standard through the bolts on the sliding table.



齿条精度等级 Quality grade of racks	Q5	Q6	Q6M	Q8	Q10
最小齿隙 Minimum back lash	0.013	0.015	0.022	0.032	0.1

10. 检测齿轮齿条啮合是否正确。涂抹颜料(注意是可清除的)到齿条上,来回移动齿轮,观察齿条齿面是否呈现正确的啮合痕迹。若不符合,按照呈现的图形判断原因,调整齿轮箱的角度直至正常啮合。

Check whether the gear and rack are meshed correctly. Coat the rack tooth flanks with (removable) marking paint, after the gear running over the paint several times, to check the area where the paint has been rubbed off from the tooth flanks correct or not according to the following sketches, if not, adjust the angle of the gear box until it meshes normally.



11. 清除齿面上的颜料, 清洁干净齿条与齿轮, 产品使用前必须先进行润滑处理。

Remove the marking paint on the tooth surface, clean the tooth strip and gear thoroughly, and lubricate before using the products.

