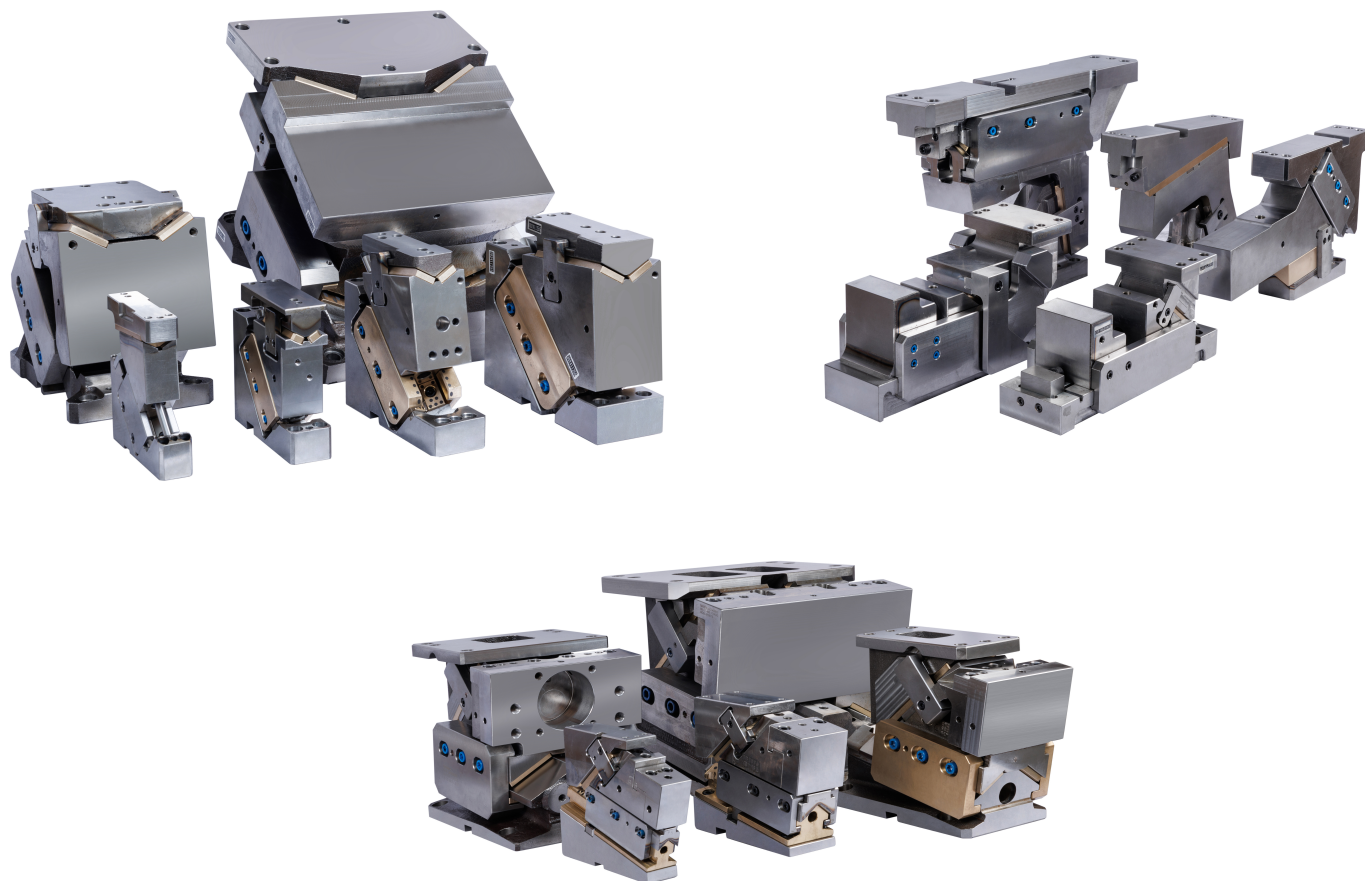




斜楔机构目录

V1.0 20250820



嘉兴迈特尔宝欣机械有限公司
JIAXING NYC INDUSTRIAL CO., LTD.

中国滑动轴承标准化发起委员单位之一



嘉兴迈特尔宝欣机械工业有限公司（NYC）是2003年成立的中欧合资企业。股东双方分别是奥地利钢铁联合集团（奥钢联）和嘉善百纳商贸有限公司。

我们致力于--生产销售各类标准的冲压模具导向件，斜楔机构，热成型模具镶块，氮气弹簧，及其他各类FA工厂自动化定制精密部件，并逐步形成产业化优势和必要的差异化特色。

经十数年的不懈努力、坚持专注，与行业内几近所有国际知名品牌建立了稳定的合作关系，培育了良好的知名度和美誉度。同时，先后获得“中国重点骨干模具企业”，“国家高新技术企业”等荣誉称号。

NYC具备完善的销售、技术研发、生产、供应链管理、质量和售后服务体系。

在我们贯彻“追求卓越”和“领先一步”的理念下，立足于中国，服务于世界。

JIAXING NYC INDUSTRIAL CO., LTD is a sino-european joint venture established in 2003. The shareholders are Voestalpine and Jiashan Baina Commercial & Trade Co., Ltd.

We are committed to research & produce all kinds of standard stamping Guide Elements, Cam Units, Die Units for Hot Forming, Gas springs and other various customized precision components for FA Factory Automation, and gradually form the industrialization advantages and necessary differentiation features.

After decades of unremitting efforts and persistent concentration, NYC has established stable cooperative relations with almost all international famous brands in this field. At the same time, we have won the “China Key Backbone Mold Enterprises”, “National High- Tech Enterprises” and other honorary titles.

NYC has its perfect sales, technical research and development, production, supply chain management, quality and after-sales service system.

We carry out the concept of “pursuit of excellence” and “one step ahead”, based in China, to serve the world.



Diagram of Cam Structure

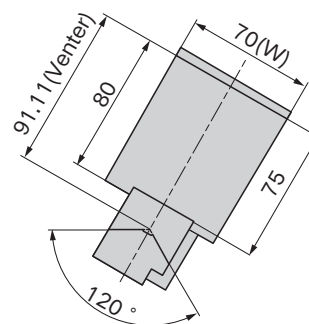
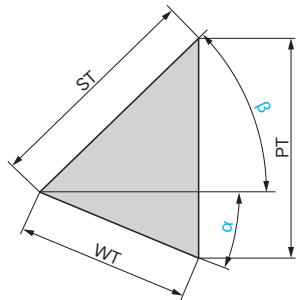


Table of Cam Structure

Angel α .	W	X_1	X_2	X_3	X_4	Z_1	Z_2	Z_3	Z_4	Z_5	重量 Weight (kg)
00	70	237.37	102	147.37	155.5	225	85.00	46.4	120	35.00	16.1
05	70	234.87	92	151.53	149.5	225	86.28	53.9	125	37.82	15.4
10	70	232.82	81	156.74	145.0	225	88.76	60.9	130	39.76	14.8
15	70	217.54	57	162.67	140.5	225	96.59	63.1	135	36.55	14.1
20	70	224.52	52	170.62	134.5	225	99.67	70.5	140	38.55	14.1
25	70	223.46	42	176.26	130.0	225	105.45	75.7	145	38.04	14.0
30	70	211.54	30	174.03	125.5	225	112.99	79.4	150	35.81	13.8
35	70	210.68	17	181.86	119.5	225	117.2	86.8	155	37.74	13.7
40	70	204.84	4	187.19	115.0	225	125.07	90.6	160	35.53	13.8
45	70	198.15	-2	183.40	110.5	225	131.28	96.1	165	35.68	13.8
50	70	190.95	-21	189.08	106.0	225	135.15	104.0	170	39.92	13.9
55	70	190.51	-23	193.02	101.5	225	146.01	104.8	175	33.41	14.1
60	70	185.81	-35	202.99	98.5	225	155.86	106.3	180	27.50	14.5

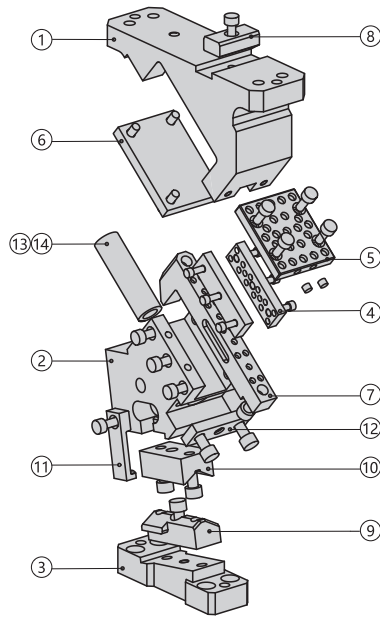
斜楔行程图
Diagram of Cam Travel



α	β	WT	ST	PT
0	50	19.3	30	22.9
5	45	21.3		23.1
10	40	23.3		23.3
15	35	25.4		23.8
20	30	27.6		24.5
25	25	30.0		25.4
30	20	32.6		26.5
35	15	35.4		28.1
40	10	38.6		30.0
45	5	42.3		32.5
50	0	46.7		35.8
55		43.6	25	35.7
60		50.0		43.3

斜楔受力表
Table of Cam Force

规格 Type	α	弹簧力 Spring Force (N/kgf)		加工力 (KN/tonf) Work Force
		初压 Initial Load	终压 Final Load	
螺旋弹簧 Coil Spring	00° ~ 60°	68.6/7.0	657.0/67.0	98.1/10.0
GK KALLER		—	2350.0/239.6	



代号 No.	名称 Description	数量 Qty	材料及备注 Material and Remark
①	底座 Cam Holder	1	QT500
②	滑块 Cam Slider	1	QT500
③	驱动块 Cam Driver	1	HT300
④	导板 Guide Block	2	铜合金 + 石墨
⑤	导板 Guide Block	1	铜合金 + 石墨
⑥	导板 Guide Block	1	45
⑦	导杆 Guide Rod	1	45+ 石墨
⑧	定位键 Key	1	45
⑨	凸 V 型导板 Cam Slide Guide	1	铜合金 + 石墨
⑩	凹 V 型导板 Cam Slide Guide	1	45
⑪	刚性返回 Positive Return Follower	1	45
⑫	弹簧挡块 Spring Block	1	45
⑬	弹簧 Spring	1	规格 Type
⑭	弹簧垫块 Spring Block	1	45
⑮	限位板 Step Plate	1	45

订购编号 Order Number

订购 Order Catalog No. (W) - (α) - 规格 Type
NUCMSNR 70 - 30 - GK

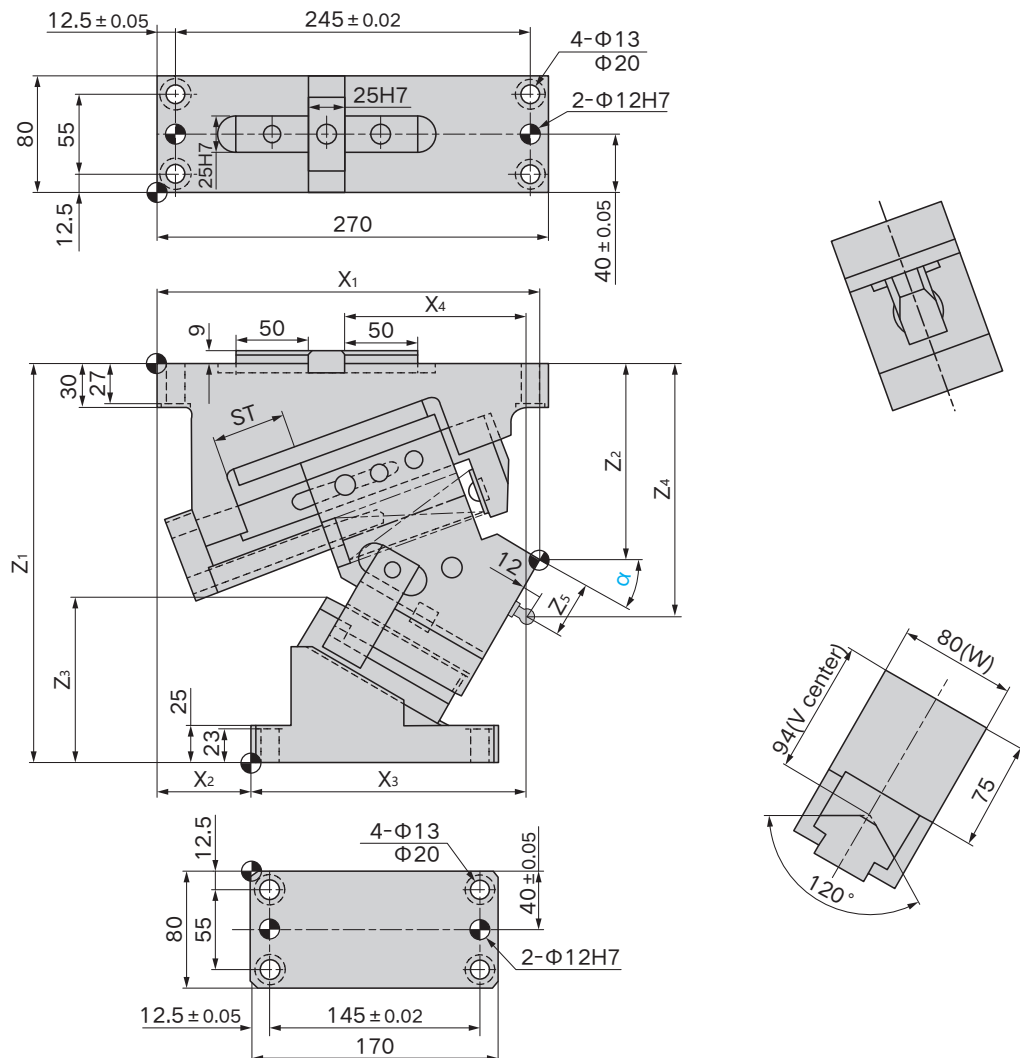
选择 Option

追加编号 Option Code	拓展 Envelope	规格 Model
GK	KALLER 产氮气弹簧 Gas Spring by KALLER	M150-38.1
ISO	螺旋弹簧 (定数 =19.6N/mm) Coil Spring (Constant=19.6N/mm)	TJL25-115

NUCMSNR80

斜楔结构图

Diagram of Cam Structure



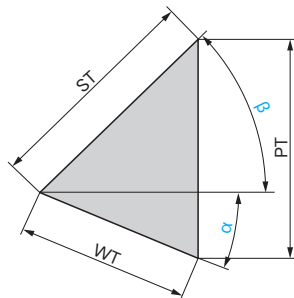
斜楔结构表

Table of Cam Structure

Angle α	W	X_1	X_2	X_3	X_4	Z_1	Z_2	Z_3	Z_4	Z_5	重量 Weight (kg)
00	80	280.00	135	157	180.0	275	110.00	69.0	155	45.00	27.9
05	80	281.31	125	164.5	160.5	275	115.93	73.5	160	43.19	27.5
10	80	277.50	110	171.37	153.0	275	117.84	82.6	165	45.77	26.9
15	80	280.48	105	174.7	144.0	275	120.72	91.3	170	47.80	26.5
20	80	276.16	95	175.57	136.5	275	124.55	99.6	175	49.32	26.0
25	80	271.47	80	181.07	127.5	275	129.29	107.3	180	50.35	25.9
30	80	264.33	65	184.27	120.0	275	134.92	114.5	185	50.90	25.3
35	80	260.66	55	186.26	112.5	275	141.38	120.9	190	50.95	25.0
40	80	252.32	35	193.34	105.0	275	147.76	126.8	195	51.60	24.7
45	80	247.46	30	191.04	99.0	275	156.61	131.8	200	49.36	24.7
50	80	237.80	15	194.12	93.0	275	165.27	136.1	205	47.51	24.9
55	80	231.36	0	201.62	72.0	275	174.53	139.6	210	44.70	25.8
60	80	233.95	0	207.53	79.0	275	186.89	140.7	215	37.43	26.2

斜楔行程图

Diagram of Cam Travel

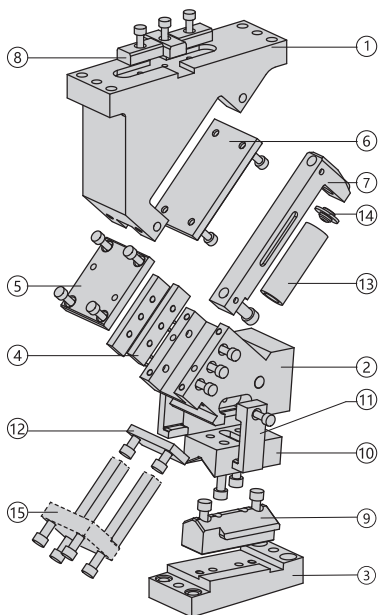


α	β	WT	ST	PT
0	50	32.1	50	38.3
5	45	35.5		38.4
10	40	38.9		38.9
15	35	42.4		39.7
20	30	46.1		40.8
25	25	50.0		42.3
30	20	54.3		44.2
35	15	59.0		46.8
40	10	64.3		50.0
45	5	70.4		54.2
50	0	77.8	45	59.6
55		78.5		64.3
60		80.0		69.3

斜楔受力表

Table of Cam Force

规格 Type	α	弹簧力 Spring Force (N/kgf)		加工力 (KN/tonf) Work Force
		初压 Initial Load	终压 Final Load	
螺旋弹簧 Coil Spring	00° ~ 60°	73.5/7.5	1223.6/124.8	166.7/17.0
GK KALLER		—	2350/239.6	
GD KALLER		—	2200 / 220	



代号 No.	名称 Description	数量 Qty	材料及备注 Material and Remark
①	底座 Cam Holder	1	QT500
②	滑块 Cam Slider	1	QT500
③	驱动块 Cam Driver	1	HT300
④	导板 Guide Block	2	铜合金 + 石墨
⑤	导板 Guide Block	1	铜合金 + 石墨
⑥	导板 Guide Block	1	45
⑦	导杆 Guide Rod	1	45+ 石墨
⑧	定位键 Key	1	45
⑨	凸 V 型导板 Cam Slide Guide	1	铜合金 + 石墨
⑩	凹 V 型导板 Cam Slide Guide	1	45
⑪	刚性返回器 Positive Return Follower	1	45
⑫	弹簧挡块 Spring Block	1	45
⑬	弹簧 Spring	1	规格 Type
⑭	弹簧垫块 Spring Block	1	45
⑮	限位板 Step Plate	1	45

订购编号 Order Number


 订购 Order
 Catalog No. (W) - (α) - 规格 Type
 NUCMSNR 80 - 30 - GK

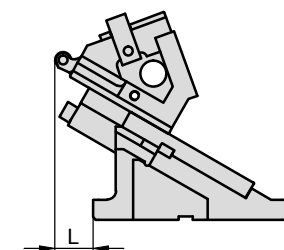
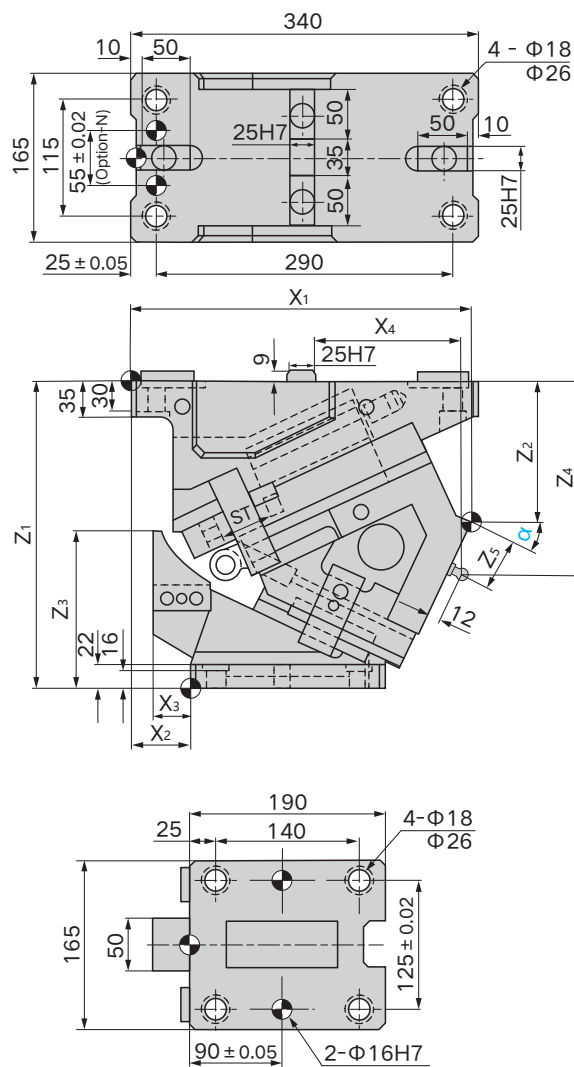
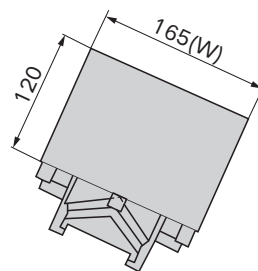
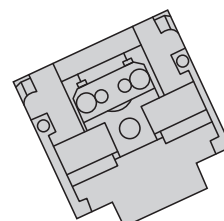
选择 Option

追加编号 Option Code	拓展 Envelope	规格 Model
GK	KALLER 产氮气弹簧 Gas Spring by KALLER	X170-063
GD	DADCO 产氮气弹簧 Gas Spring by DADCO	U.0175.063
ISO	螺旋弹簧 (定数 =23.0N/mm) Coil Spring (Constant=23.0N/mm)	TJL32-152

UCMSNR165

斜楔结构图

Diagram of Cam Structure

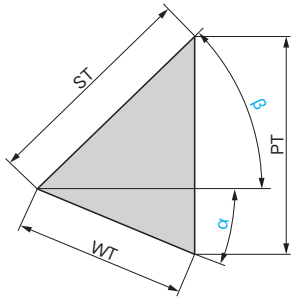
后方取出空间示意图 ($\alpha=20^\circ$)

斜楔结构表

Table of Cam Structure

Angel α	W	X_1	X_2	X_3	X_4	Z_1	Z_2	Z_3	Z_4	Z_5	L	重量 Weight (kg)
00	165	335.84	128	55	180.5	300	96.98	80.0	170	73.02	21	76.1
05	165	335.25	113	55	173.0	300	100.91	98.0	175	73.32	37	74.2
10	165	337.27	101	50	165.5	300	111.09	109.0	180	67.86	48	73.8
15	165	329.78	80	45	156.5	300	122.46	120.0	185	61.53	66	73.1
20	165	332.68	70	42	149.0	300	129.99	137.0	190	59.49	71	72.3
25	165	332.88	58	37	140.0	300	138.62	154.0	195	56.61	83	72.1
30	165	334.28	48	30	132.5	300	148.28	125.0	205	58.57	90	71.9
35	165	329.80	33	25	125.0	300	158.89	135.0	215	60.10	100	72.2
40	165	321.35	15	25	117.5	300	170.38	155.0	225	61.23	111	72.4
45	165	314.86	0	25	111.5	300	182.66	155.0	235	62.03	116	65.5
50	165	307.27	-15	0	105.5	300	195.63	136.6	245	62.51	81	64.3
55	165	296.59	-32	0	120.0	300	210.30	140.0	255	60.80	88	65.2
60	165	288.56	-45	0	113.0	300	222.26	145.5	265	64.69	95	66.6

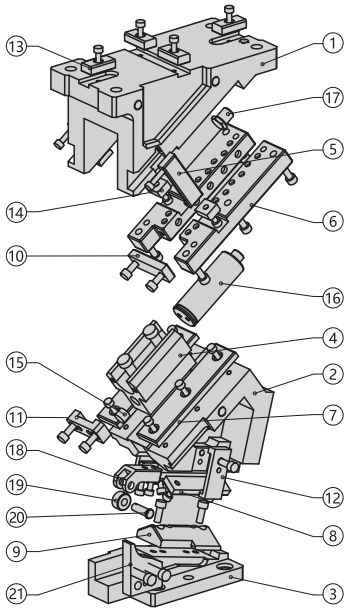
斜楔行程图
Diagram of Cam Travel



斜楔受力表
Table of Cam Force

α	β	WT	ST	PT
0	50	32.1	50	38.3
5	45	35.5		38.4
10	40	38.9		38.9
15	35	42.4		39.7
20	30	46.1		40.8
25	25	50.0		42.3
30	20	54.3		44.2
35	15	59.0		46.8
40	10	64.3		50.0
45	5	70.4		54.2
50	0	77.8		59.6
55		87.2		71.4
60		100.0		86.6

规格 Type	α	弹簧力 Spring Force (N/kgf)		加工力 (KN/tonf) Work Force
		初压 Initial Load	终压 Final Load	
螺旋弹簧 Coil Spring	00° ~ 60°	449.1/45.8	2694.0/274.7	294.2/30.0
GD DADCO		—	3518.0/358.7	
GK KALLER		—	3430.0/349.8	



代号 No.	名称 Description	数量 Qty	材料及备注 Material and Remark
①	底座 Cam Holder	1	HT300
②	滑块 Cam Slider	1	HT300
③	驱动块 Cam Driver	1	HT300
④	悬挂臂 Suspension Arm	1	QT500+ 石墨
⑤	安全挂钩 Safety Hook	2	45
⑥	导板 Guide Block L/R	1/1	42CrMo
⑦	导板 Guide Block	2	铜合金 + 石墨
⑧	导板 Guide Block	2	铜合金 + 石墨
⑨	凸 V 型导板 Cam Slide Guide	1	45
⑩	止动块 Stopping Block	1	45
⑪	弹簧固定板 Spring Fixed Plate	1	45
⑫	刚性返回器 Positive Return Follower	2	45
⑬	定位键 Key	4	45
⑭	定位键 Key	2	45
⑮	缓冲块 Urethane Stopper	1	聚氨酯
⑯	氮气弹簧 Gas Spring	1	规格 Type
⑰	氮气缸顶块 Nitrogen Cylinder Top Block	1	45
⑱	滚轮支架 Roller Stent (only 0°~25°)	1	45
⑲	滚轮 Roller (only 0°~25°)	1	45
⑳	转动轴 Rotation Axis (only 0°~25°)	1	45
㉑	加速器 Accelerator (only 0°~25°)	1	45

订购编号 Order Number

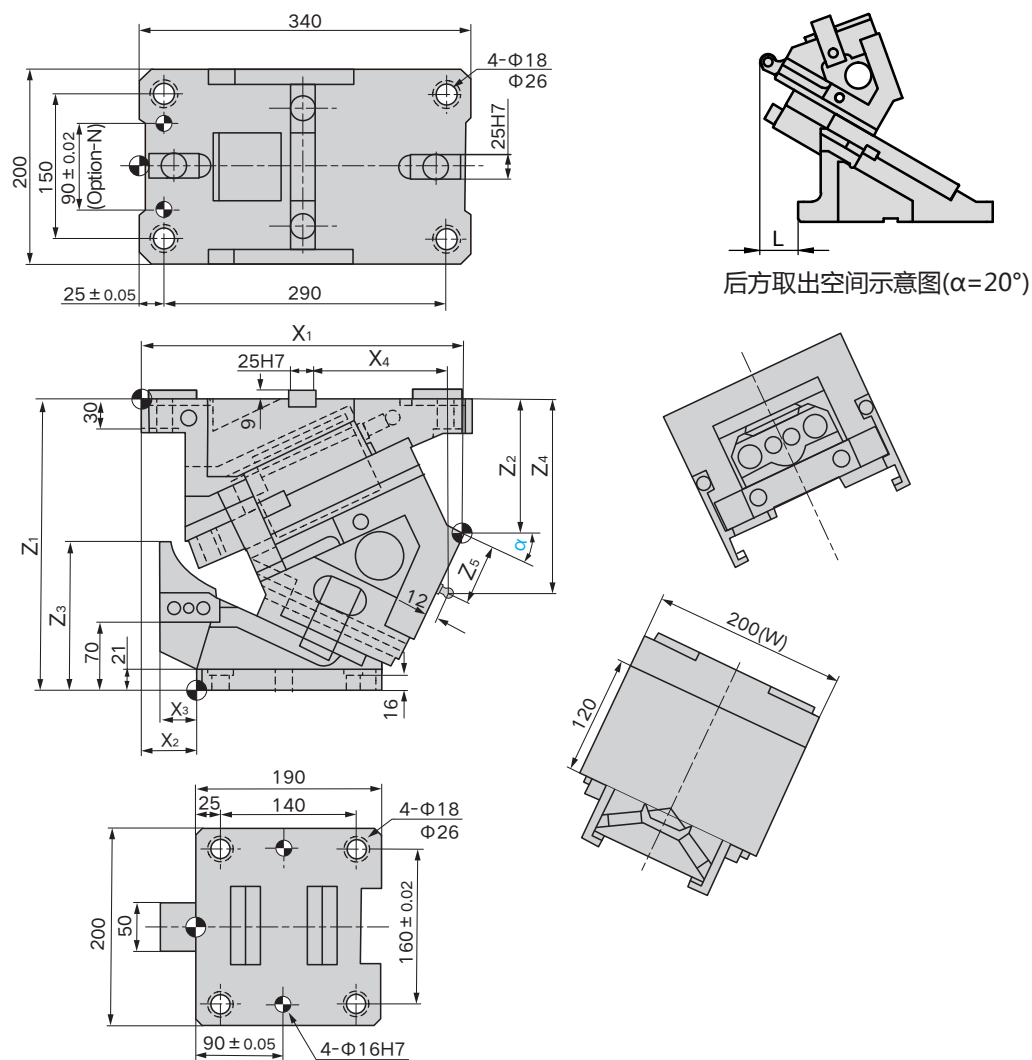
订购 Order Catalog No. (W) - (α) - 选择 Option
NUCMSNR 165 - 20 - GK

选择 Option	追加编号 Option Code	拓展 Envelope	规格 Model
	GD	DADCO 产氮气弹簧 Gas Spring by DADCO	L300.063.138
	GK	KALLER 产氮气弹簧 Gas Spring by KALLER	TU250-63.5
	ISO	螺旋弹簧 (定数 = 44.9N/mm) Coil Spring (Constant = 44.9N/mm)	TJM40-178
	N	底座追加加工 Φ16H7 销孔 Φ 16H7 dowel hole is drilled on the cam holder.	

UCMSNR200

斜楔结构图

Diagram of Cam Structure

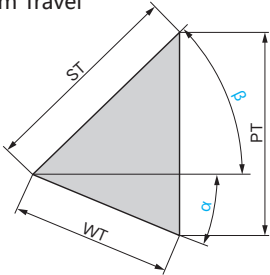


斜楔结构表

Table of Cam Structure

Angel α .	W	X_1	X_2	X_3	X_4	Z_1	Z_2	Z_3	Z_4	Z_5	L	重量 Weight (kg)
00	200	335.84	128	55	180.5	300	96.98	80.0	170	73.02	21	90.3
05	200	335.25	113	55	173.0	300	100.91	98.0	175	73.32	37	88.0
10	200	337.27	101	50	165.5	300	111.09	109.0	180	67.86	48	87.5
15	200	329.78	80	45	156.5	300	122.46	120.0	185	61.53	66	87.0
20	200	332.68	70	42	149.0	300	129.99	137.0	190	59.49	71	85.8
25	200	332.88	58	37	140.0	300	138.62	154.0	195	56.61	83	86.2
30	200	334.28	48	30	132.5	300	148.28	125.0	205	58.57	90	85.6
35	200	329.80	33	25	125.0	300	158.89	135.0	215	60.10	100	86.2
40	200	321.35	15	25	117.5	300	170.38	155.0	225	61.23	111	86.6
45	200	314.86	0	25	111.5	300	182.66	155.0	235	62.02	116	88.0
50	200	307.27	-15	0	105.5	300	195.63	137.0	245	62.51	91	78.2
55	200	296.59	-32	0	120.0	300	210.30	140.3	255	60.80	99	80.5
60	200	288.56	-45	0	113.0	300	222.26	145.7	265	64.69	103	82.4

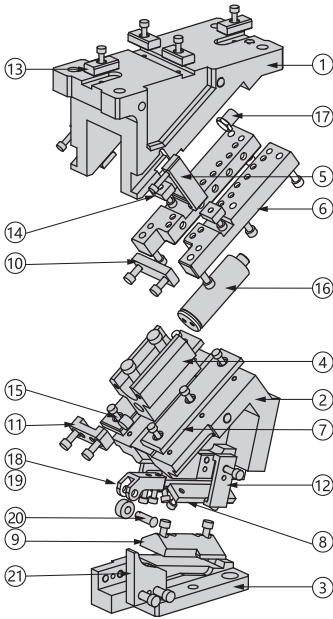
斜楔行程图
Diagram of Cam Travel



α	β	WT	ST	PT
0	50	32.1	50	38.3
5	45	35.5		38.4
10	40	38.9		38.9
15	35	42.4		39.7
20	30	46.1		40.8
25	25	50.0		42.3
30	20	54.3		44.2
35	15	59.0		46.8
40	10	64.3		50.0
45	5	70.4		54.2
50	0	77.8		59.6
55		87.2		71.4
60		100.0		86.6

斜楔受力表
Table of Cam Force

规格 Type	α	弹簧力 Spring Force (N/kgf)		加工力 (kN/tonf) Work Force
		初压 Initial Load	终压 Final Load	
螺旋弹簧 Coil Spring	0° ~ 60°	749.2/76.4	4494.0/458.3	353.0/36.0
GD DADCO		—	5334.0/543.9	
GK KALLER		—	6125.0/624.6	



代号 No.	名称 Description	数量 Qty	材料及备注 Material and Remark
①	底座 Cam Holder	1	HT300
②	滑块 Cam Slider	1	HT300
③	驱动块 Cam Driver	1	HT300
④	悬挂器 Suspension Arm	1	QT500+ 石墨
⑤	安全挂钩 Safety Hook	2	45
⑥	导板 Guide Block L/R	1/1	42CrMo
⑦	导板 Guide Block	2	铜合金 + 石墨
⑧	导板 Guide Block	2	铜合金 + 石墨
⑨	凸 V 型导板 Cam Slide Guide	1	45
⑩	止动块 Stopper	1	45
⑪	弹簧挡块 Spring Block	1	45
⑫	强制拉回块 Positive Return Follower	2	45
⑬	定位键 Key	4	45
⑭	定位键 Key	2	45
⑮	缓冲块 Urethane Stopper	1	聚氨酯
⑯	氮气弹簧 Gas Spring	1	规格 Type
⑰	氮气缸顶块 Nitrogen Cylinder Top Block	1	45
⑱	滚轮支架 Roller Stent (only 0°~25°)	1	45
⑲	滚轮 Roller (only 0°~25°)	1	45
⑳	转动轴 Rotation Axis (only 0°~25°)	1	45
㉑	加速器 Accelerator (only 0°~25°)	1	45

订购编号 Order Number

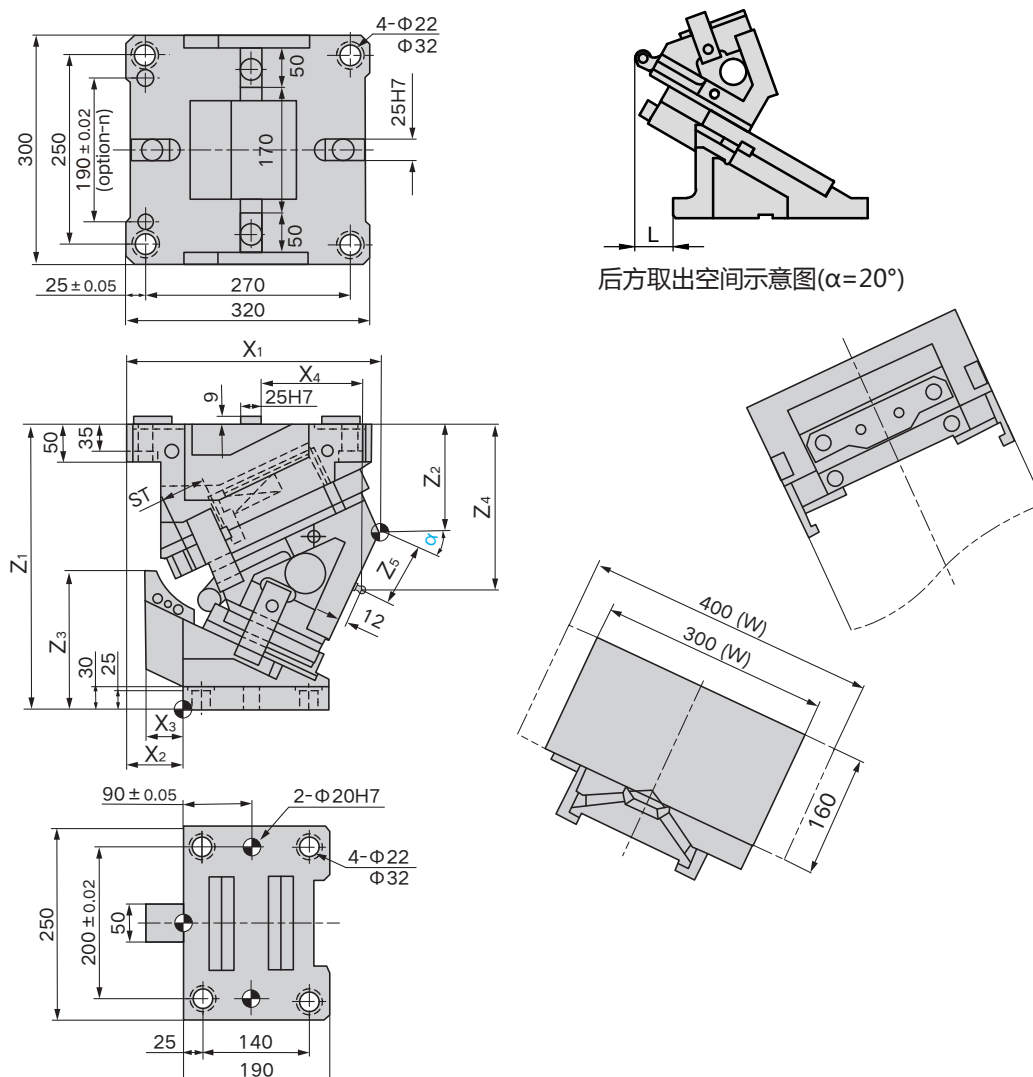
订购 Order Catalog No. (W) - (α) - 选择 Option
NUCMSNR 200 - 20 - GK

追加编号 Option Code	拓展 Envelope	规格 Model
GD	DADCO 产氮气弹簧 Gas Spring by DADCO	L500.063.138
GK	KALLER 产氮气弹簧 Gas Spring by KALLER	K500-064
ISO	螺旋弹簧 (定数 = 74.9N/mm) Coil Spring (Constant = 74.9N/mm)	TJM50-178
N	底座追加加工 $\Phi 16H7$ 销孔 $\Phi 16H7$ dowel hole is drilled on the cam holder.	

NUCMSNR300/400

斜楔结构图

Diagram of Cam Structure

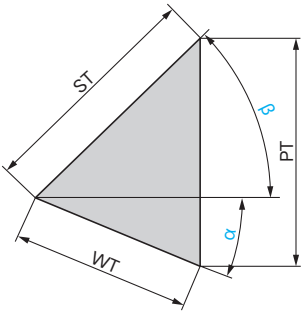


斜楔结构表

Table of Cam Structure

Angle α	W	X_1	X_2	X_3	X_4	Z_1	Z_2	Z_3	Z_4	Z_5	L	重量 Weight (kg)
00	300/400	313.00	138	55	193.0	375	98.00	114.0	180	82.00	45	153.2/160.2
05	300/400	317.15	125	55	182.5	375	104.19	127.0	185	80.07	59	152.5/159.2
10	300/400	324.13	115	55	172.0	375	111.86	139.0	190	77.23	67	151.4/158.4
15	300/400	325.81	100	55	161.5	375	121.01	152.0	195	73.39	77	154.1/161.1
20	300/400	327.08	85	55	151.0	375	131.59	164.0	200	68.43	85	148.2/155.2
25	300/400	334.71	75	50	140.5	375	138.65	182.0	205	67.61	88	150.2/157.3
30	300/400	327.83	55	45	130.0	375	146.89	152.0	215	71.72	108	147.3/154.3
35	300/400	334.51	45	35	121.0	375	159.17	159.7	225	71.97	113	148.0/155.0
40	300/400	325.46	25	30	112.0	375	167.30	167.7	235	78.30	129	146.2/153.3
45	300/400	324.83	7	30	103.0	375	179.23	178.3	245	81.01	134	148.6/155.6
50	300/400	306.63	-35	0	94.0	375	196.84	193.1	265	91.73	131	122.5/127.7
55	300/400	277.93	-85	0	86.5	375	229.29	190.7	285	79.99	169	130.9/135.9
60	300/400	286.45	-85	0	79.0	375	245.64	196.0	300	87.94	163	135.3/140.4

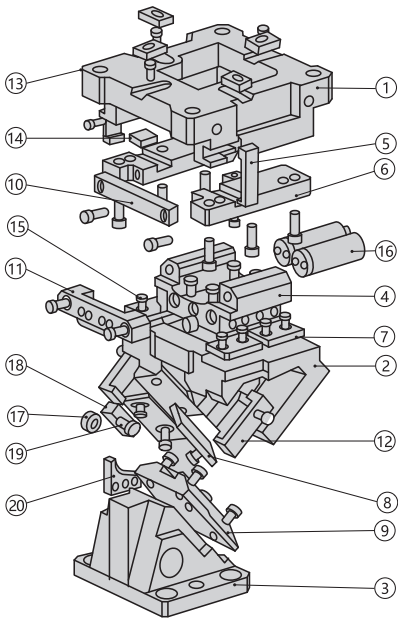
斜楔行程图
Diagram of Cam Travel



α	β	WT	ST	PT
0	50	38.6	60	46.0
5	45	42.6		46.1
10	40	46.7		46.7
15	35	50.9		47.6
20	30	55.3		48.9
25	25	60.0		50.7
30	20	65.1		53.1
35	15	70.8		56.1
40	10	77.1		60.0
45	5	84.5		65.0
50	0	79.3	51	60.8
55		88.9		72.8
60		102.0		88.3

斜楔受力表
Table of Cam Force

规格 Type	α	弹簧力 Spring Force (N/kgf)		加工力 (KN/tonf) Work Force
		初压 Initial Load	终压 Final Load	
螺旋弹簧 Coil Spring	00° ~ 60°	1314.1/134.0	9198.0/937.9	451.1/46.0
GD DADCO		—	10668.0/1087.8	
GK KALLER		—	10668.0/1087.8	



代号 No.	名称 Description	数量 Qty	材料及备注 Material and Remark
①	底座 Cam Holder	1	HT300
②	滑块 Cam Slider	1	HT300
③	驱动块 Cam Driver	1	HT300
④	悬挂器 Hanger	1	QT500+ 石墨
⑤	安全挂钩 Safety Hook	2	45
⑥	导板 Guide Block L/R	2	42CrMo
⑦	导板 Guide Block	4	铜合金 + 石墨
⑧	导板 Guide Block	2	铜合金 + 石墨
⑨	凸 V 型导板 Cam Slide Guide	1	45
⑩	止动块 Stopping Block	1	45
⑪	弹簧固定板 Spring Fixed Plate	1	45
⑫	刚性返回器 Positive Return Follower	2	45
⑬	定位键 Key	4	45
⑭	定位键 Key	2	45
⑮	缓冲块 Urethane Stopper	3	聚氨酯
⑯	氮气弹簧 Gas Spring	2	规格 Type
⑰	滚轮支架 Roller Stent (only 0°~25°)	1	45
⑱	滚轮 Roller (only 0°~25°)	1	45
⑲	转动轴 Rotation Axis (only 0°~25°)	1	45
⑳	加速器 Accelerator (only 0°~25°)	1	45

订购编号 Order Number

 订购
Order

Catalog No.

(W) - (α) - 选择 Option

NUCMSNR

300 - 20 - GK

NUCMSNR

400 - 20 - GK



选择
Option

追加编号 Option Code	拓展 Envelope	规格 Model
GD	DADCO 产氮气弹簧 Gas Spring by DADCO	L500.075.138
GK	KALLER 产氮气弹簧 Gas Spring by KALLER	K500-80
ISO	螺旋弹簧 (定数 =65.7N/mm) Coil Spring (Constant=65.7N/mm)	TJM50-203
N	底座追加加工 Φ16H7 销孔 Φ16H7 dowel hole is drilled on the cam holder.	



CAM Technology

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