

Aerial Cam Unit

Grade	Working Force [kN (tonf)]		Catalog No.	W	θ 10° increments	Spring Type PS
	1,000,000 strokes	300,000 strokes				
Yellow	86.7 (8.8)	103.9 (10.6)	VACYHT	100	00~70	GK NGK GD NGD ISO
Pink	116.1 (11.8)	139.2 (14.2)	VACPHT			

ISO: Coil Spring GK: Gas Spring (KALLER) GD: Gas Spring (DADCO)
NGK/NGD: Without Gas Spring Parts for spring assembly are included.

Order	Catalog No.	W	—	θ	—	PS	—	Option
	VACYHT	100	—	10	—	ISO		
	VACPHT	100	—	10	—	GK	— NF — K	

Option	Option Code	Specification
	NF	Nitrogen gas not charged.
	K	Key attached.

Refer to page 388 for key specification.

Spring Force

● Coil Spring

Yellow

θ	Initial Load		Final Load		Spring Model
	N	kgf	N	kgf	
00					
10					
20					
30	358	36.6	2822	288	TJM40-178
40					
50					
60	345	35.2	2704	276	TJM40-139
70	470	47.9	2662	272	TJM40-102

Pink

θ	Initial Load		Final Load		Spring Model
	N	kgf	N	kgf	
00					
10					
20					
30	275	28.0	5701	582	TF40-100
40					
50					
60	402	41.1	5560	567	TF40-90
70	283	28.9	5162	527	TF40-70

Spring Force

● Gas Spring

Yellow, Pink

θ	Final Load		Spring Model
	N	kgf	
00			
10			
20			
30	6836	698	X500-63
40			
50			
60	6693	683	X500-50
70	6803	694	X500-32

Weight

θ	Total Weight kg	Slider Weight kg	Tool installation weight*1 kg
00	33.2		8.2
10	32.2		8.4
20	31.5		8.8
30	31.5	10.8	9.7
40	32.0		11.1
50	32.9		12.0
60	34.5	12.6	10.2
70	36.2	13.6	9.2

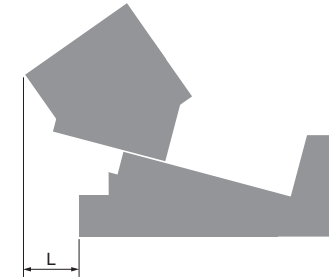
*1 Tool weight is estimated value. Allowable tool weight varies depending on press speed.

Cam Travel

θ	Travel mm
00	35.4
10	42.8
20	50.7
30	59.7
40	70.7
50	85.6
60	82.0
70	81.9

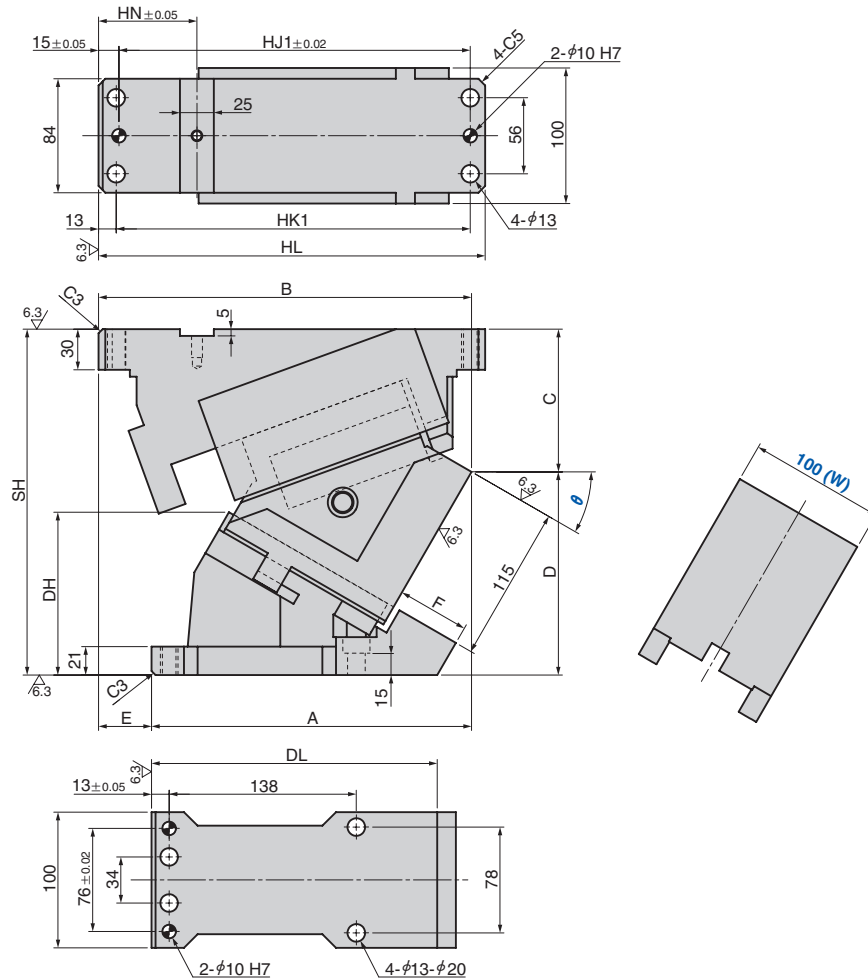
Rear Removal Space

θ	L mm
00	0.0
10	11.4
20	25.7
30	48.0
40	67.6
50	69.9
60	89.0
70	103.0



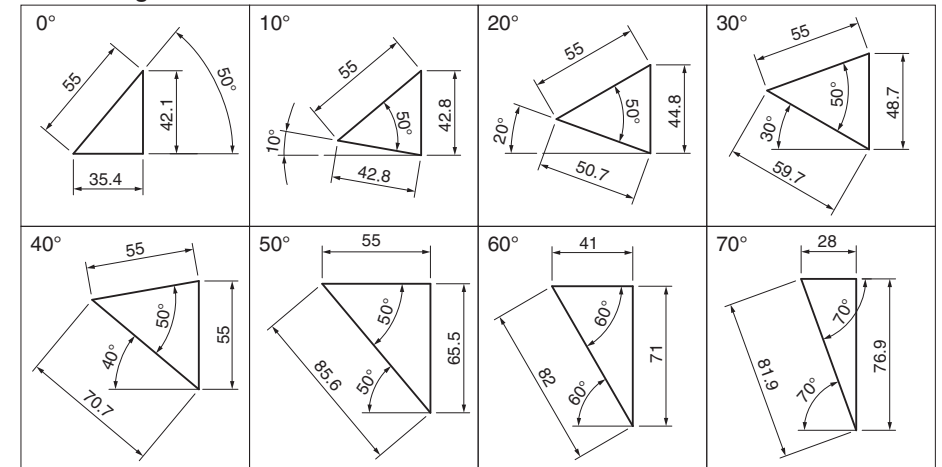
Aerial Cam Unit

VACYHT100
VACPH100



θ	A	B	C	D	E	F	SH	HL	HK1	HJ1	HN	DH	DL
00	167.00	260.00	63.00	182.00	93			260	236	234	112.5	66.8	220.0
10	190.58	270.58	75.66	169.34	80		245	270	246	244		80.2	214.5
20	216.87	275.87	89.79	155.21	59			280	256	254		94.8	216.8
30	235.97	274.97	105.16	144.84	39	53	250	285	261	259	72.5	115.0	213.5
40	252.04	267.04	123.59	136.41	15		260					138.2	206.8
50	264.27	266.26	146.90	123.10	2		270					156.3	200.0
60	280.64	255.64	156.44	123.56	-25	60	280	295	271	269	102.5	161.4	186.6
70	305.82	250.82	157.09	122.91	-55	77						169.0	193.3

Cam Diagram



Working Force Distribution Diagram

The working forces indicated in the mount face distribution diagram are reached by putting the tooling center of gravity within each area for the following pictures.

- : Working force (kN) allowed for up to 300,000 strokes
- []: Working force (kN) allowed for up to 1,000,000 strokes

