

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	112.8 (11.5)	135.3 (13.8)	VACYHT	140	00~70	GK NGK GD NGD ISO
Pink	159.3 (16.3)	191.1 (19.5)	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	140	—	10	—	ISO		
	VACPHT	140	—	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	523	53.4	4636	473	TJM50-178
30					
40					
50					
60	575	58.7	4505	460	TJM50-139
70	784	80.0	4442	453	TJM50-102

Pink

θ	Initial Load		Final Load		Spring Model
	N	kgf	N	kgf	
00					
10					
20	429	43.8	8902	908	TF50-100
30					
40					
50					
60	629	64.2	8683	886	TF50-90
70	443	45.2	8061	823	TF50-70

Spring Force

● Gas Spring

Yellow, Pink

θ	Final Load		Spring Model
	N	kgf	
00			
10			
20	11162	1139	X750-63
30			
40			
50			
60	10911	1113	X750-50
70	11103	1133	X750-32

Weight

θ	Total Weight kg	Slider Weight kg	Tool installation weight*1 kg
00	53.0		13.1
10	51.5		13.3
20	50.5	16.9	14.1
30	49.8		15.4
40	51.1		17.6
50	54.0		19.1
60	56.0	18.8	17.2
70	57.5	20.1	15.9

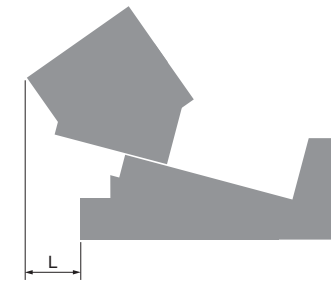
*1 Tool weight is estimated value. Allowable tool weight varies depending on press speed.

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

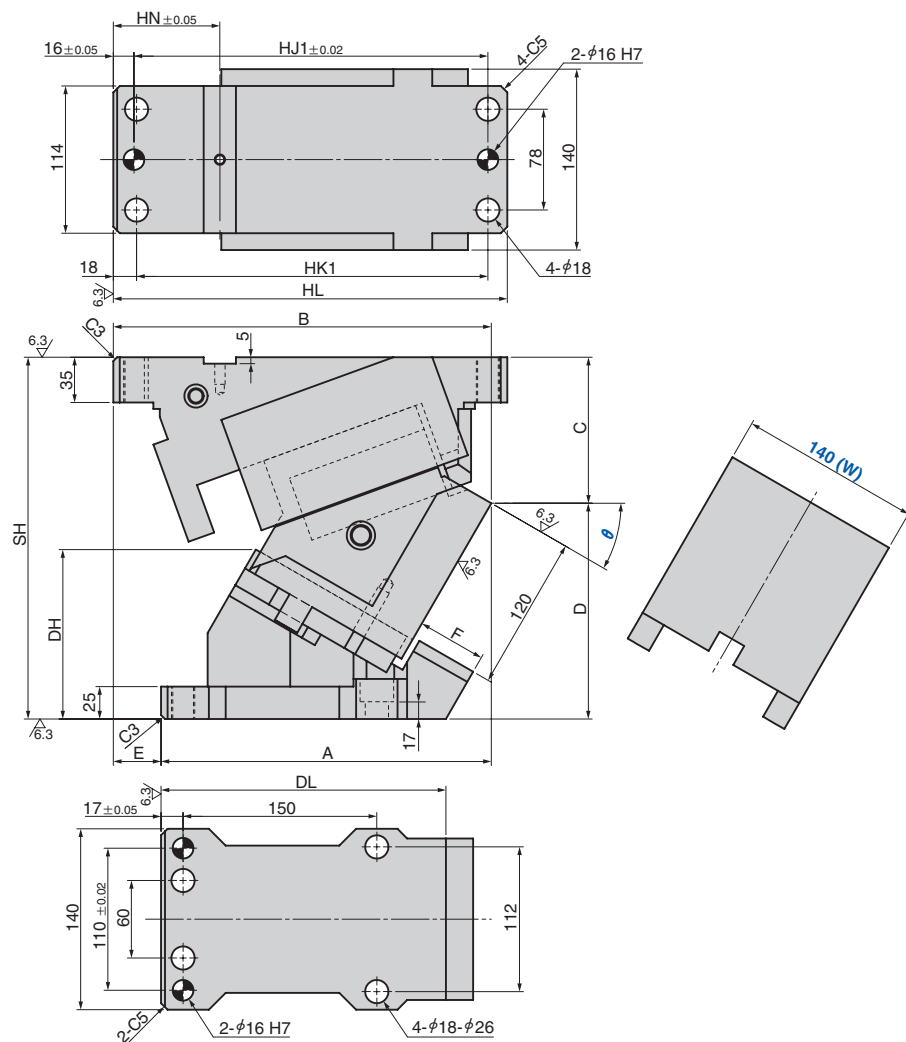
Rear Removal Space

θ	L mm
00	0.0
10	0.6
20	14.3
30	35.9
40	55.5
50	64.9
60	83.7
70	95.6



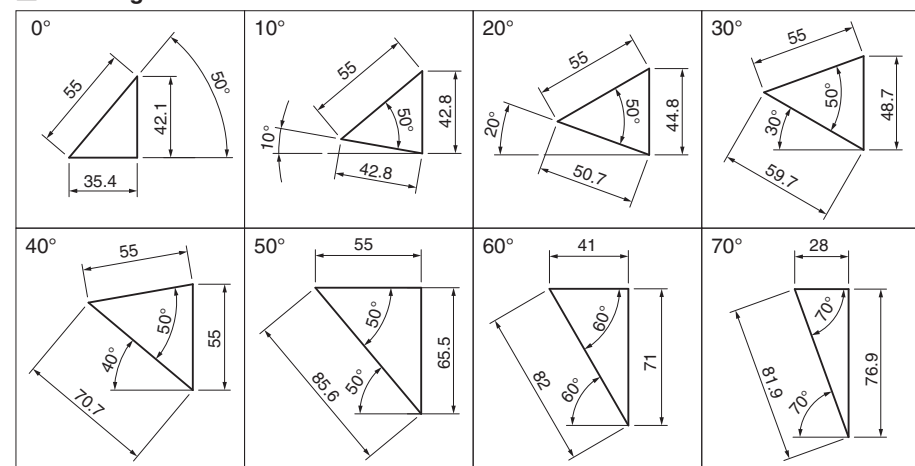
Aerial Cam Unit

VACYHT140
VACPHT140



θ	A	B	C	D	E	F	SH	HL	HK1	HJ1	HN	DH	DL
00	175.00	280.00	73.00	202.00	105	53	275	280	247	249	122.5	79.8	228.0
10	203.32	290.32	81.69	193.31	87			290	257	259		97.3	223.0
20	231.16	294.16	95.78	179.22	63			300	267	269	112.3	222.3	
30	255.67	292.67	113.03	161.97	37			305	272	274	82.5	126.1	223.4
40	277.00	286.00	139.21	145.79	9			285	310	277	279		142.2
50	288.36	284.36	171.14	128.86	-4		300					157.6	217.2
60	304.88	273.88	177.03	132.97	-31	60	310	325	292	294	122.5	168.4	194.6
70	320.00	266.00	182.41	127.59	-54	77							174.1

■ 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

