

Product Information

- Complies with VDI.
- Compact design.
- High working forces.
- Suitable for high speed production.
- Bronze with solid lubricants wear plates.

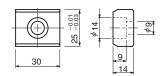


Mount face width	Working Force [kN] 1,000,000 strokes	Working Angle (5°increments)	Catalog No.	Spring Type
65	117	0°~75°	VACBV65	
85	162	0°~75°	VACBV85	
110	206	0°~75°	VACBV110	
165	323	0°~75°	VACBV165	
200	515	0°~75°	VACBV200	
260	603	0°~75°	VACBV260	
330	735	0°~75°	VACBV330	
400	882	0°~75°	VACBV400	

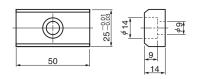
^{*} Mount face widths 200, 260, 300, and 400 mm available in June 2024.

■Key specifications

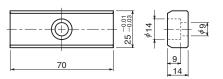
Cam width 65, 85, 110, 165
(A M8 bolt is included.)



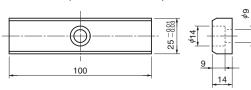
Cam width 65, 85, 110, 165, 200, 260, 330, 400
LKU25-50 (A M8 bolt is included.)



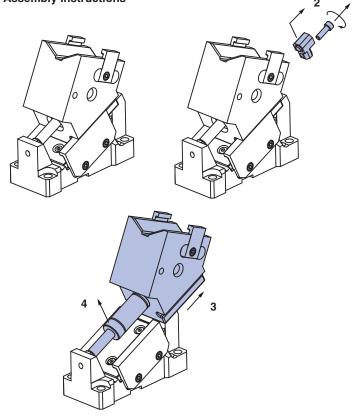
Cam width 110
(A M8 bolt is included.)



Cam width 165
LKU25-100 (A M8 bolt is included.)



■VACBV65・85 Assembly Instructions



Disassembly

- 1) Remove Hexagon Socket Head Bolts.
- 2) Pull out Stopper Plate.
- 3) Remove Cam Slider to the rear. (until Gas Spring is removable.)
- 4) Remove Gas Spring.

Assembly

Assembly is the reverse procedure of disassembly.

- Ensure that all parts are clean, particularly the sliding components to which a small amount of lubricant is applied and is then placed in position.
- Take care that the respective tolerances are observed when assembling Cam Slider and Cam Holder, which also should be identified by the same serial number.
- · Make sure that all bolts are tighten to the recommended torque after assembly and disassembly.

Please contact your local sales representative if you prefer to use a gas spring not specified in our catalog. For use and maintenance of gas spring, please contact the manufacturer directly.

VALCAM VA

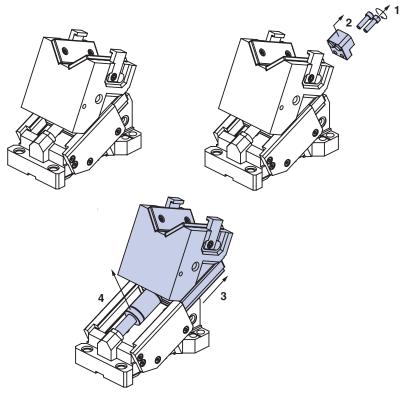
500

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NEW V/\LC\M V/\ [Overview]

Product Information

■VACBV110 • 165 Assembly Instructions



Disassembly

- 1) Remove Hexagon Socket Head Bolts.
- 2) Pull out Stopper Plate.
- 3) Remove Cam Slider to the rear. (until Gas Spring is removable.)
- 4) Remove Gas Spring.

Assembly

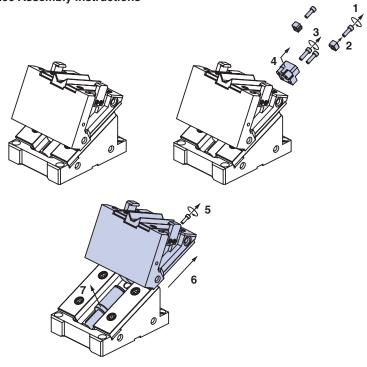
Assembly is the reverse procedure of disassembly.

- Ensure that all parts are clean, particularly the sliding components to which a small amount of lubricant is applied and is then placed in position.
- Take care that the respective tolerances are observed when assembling Cam Slider and Cam Holder, which also should be identified by the same serial number.
- · Make sure that all bolts are tighten to the recommended torque after assembly and disassembly.

⚠ Gas Spring

Please contact your local sales representative if you prefer to use a gas spring not specified in our catalog. For use and maintenance of gas spring, please contact the manufacturer directly.

■VACBV200 • 260 Assembly Instructions



Disassembly

- 1) Remove Hexagon Socket Head Bolts.
- 2) Pull out Stopper Plate.
- 3) Remove Hexagon Socket Head Bolts.
- 4) Pull out Stopper Plate.
- 5) Remove Hexagon Socket Head Bolts of Gas Spring.
- 6) Remove Cam Slider to the rear.
- 7) Remove Gas Spring.

Assembly

Assembly is the reverse procedure of disassembly.

- Ensure that all parts are clean, particularly the sliding components to which a small amount of lubricant is applied and is then placed in position.
- Take care that the respective tolerances are observed when assembling Cam Slider and Cam Holder, which also should be identified by the same serial number.
- · Make sure that all bolts are tighten to the recommended torque after assembly and disassembly.

Gas Spring

Please contact your local sales representative if you prefer to use a gas spring not specified in our catalog. For use and maintenance of gas spring, please contact the manufacturer directly.



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Aerial Cam Unit

Working Force [kN] 1,000,000 strokes	Catalog No.	w	θ	Spring Type PS	
323	VACBV	165	00~75 (5° increments)	GK NGK GD NGD	

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

		_				_	
Catalog No.	W	-	θ	-	PS	-	Option
VACBV	165	_	10	_	GK		
VACBV	165	_	10	_	GK	_	NF

Option Code	on Code Specification	
NF Nitrogen gas not charged.		

■Spring Specification

	GK		GD			
θ	Final Load kN	Return Force kN	Spring Model	Final Load kN	Return Force kN	Spring Model
00		15.4			15.4	
05		15.4			15.4	
10		15.4			15.4	
15		15.4			15.4	
20		15.3			15.4	
25	11.5	15.3	X750-50	11.5	15.3	U.0800.050
30		15.3			15.3	
35		15.3			15.3	
40		15.2			15.2	
45		15.2			15.2	
50		15.2			15.2	
55	11.1	15.9	X750-50	11.1	15.9	U.0800.050
60	11.6	18.3	X750-38	11.6	18.3	U.0800.038
65	11.5	20.6	X750-32	11.5	20.6	U.0800.032
70	10.7	22.1	X750-32	10.7	22.1	U.0800.032
75	10.6	26.1	X750-25	10.6	26.1	U.0800.025

■Weight

	•			
θ	Total Weight kg	Cam Slider Weight kg	Max. Tool Length mm	Max. Tool Weight* kg
00	64.7			
05	63.8			
10	63.4			
15	63.0			
20	62.7			
25	62.5	26.5		
30	62.3			
35	62.6		115	16.0
40	63.5		115	10.0
45	64.1			
50	64.6			
55	64.9	26.8		
60	65.3	27.0		
65	66.0	27.2		
70	66.0	26.6		
75	66.5	27.5		

20	58
25	73
30	88
35	98
40	105
45	116
50	127

75

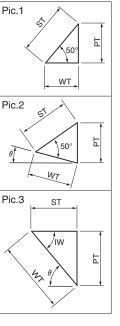
■Rear Removal Space

_		
θ	L mm	
00	16	
05	28	
10	39	
15	50	
20	58	
25	73	
30	88	
35	98	
40	105	
45	116	
50	127	
55	134	
60	141	
65	150	
70	150	

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■Cam Diagram

θ	WT	PT	ST	IW	Pic.
00	30.9	36.8			1
05	34.1	36.9			
10	37.3	37.3			
15	40.7	38.1			
20	44.2	39.1			
25	48.0	40.6	48	_	2
30	52.1	42.5			
35	56.6	44.9			
40	61.7	48.0			
45	67.6	52.0			
50	74.7	57.2		50	
55	75.0	61.4	43	55	
60	74.0	64.1	37	60	0
65	73.4	66.5	31	65	3
70	73.1	68.7	25	70	
75	73.4	70.9	19	75	



VALCAM VA 165

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

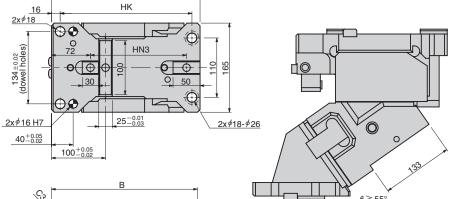
NEW VALCAM VA

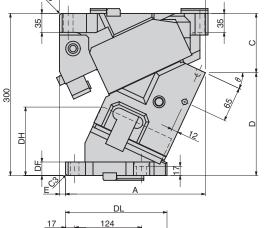
HL

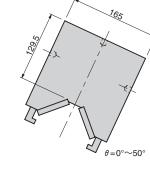
Aerial Cam Unit

VACBV165







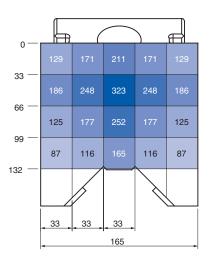


θ	Α	В	С	D	Е	HL	нк	HN3	DH	DL	DN1	DN3	DF
00	184.00	261.00	74.00	226.00	77	250	219	153	88.7				23
05	200.19	264.19	78.59	221.41	64	255	224	158	97.2				
10	215.98	266.98	86.10	213.90	51	260	229	163	103.7				
15	231.38	268.38	94.48	205.52	37	265	234	168	110.2				
20	247.41	270.41	101.70	198.30	23	270	239	173	118.5	188			
25	259.08	270.08	109.74	190.26	11	275	244	178	126.7	100	82	120	
30	274.40	267.40	118.56	181.44	-7	275	244	1/6	134.5				
35	286.40	266.40	128.13	171.87	-20	280	249	183	142.0				
40	302.10	267.10	140.43	159.57	-35	285	254	188	147.0				25
45	311.53	260.53	153.43	146.57	-51	285	254	100	151.3				
50	318.71	251.71	165.10	134.90	-67				157.3	183			
55	326.27	246.27	167.18	132.82	-80				158.8	180			
60	331.61	239.61	172.77	127.23	-92	000	0.40	100	164.9	475			
65	343.85	235.85	173.59	126.41	-108	280	249	183	168.4	175	70	108	
70	347.60	236.60	177.84	122.16	-111				175.9	170			
75	349.35	232.35	185.82	114.18	-117				175.5	161			

■Working Force Distribution Diagram

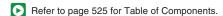
The working forces indicated in the mount face distribution diagram are reached by putting the tooling center of gravity within each area for the following pictures.

Working force (kN) allowed for up to 1,000,000 strokes





524



DN1±0.05

25-0.01

 128 ± 0.02

2x∮16 H7

 17 ± 0.05

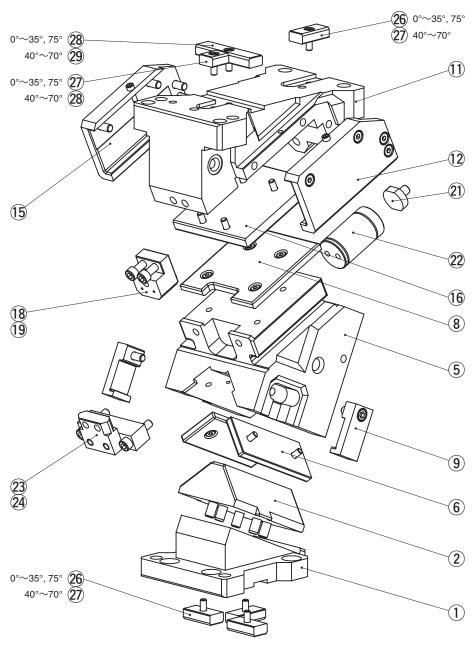
8/

30

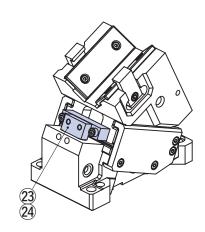
4x∮18-∮26

Aerial Cam Unit

VACBV165



Lock System



No.	Description	Qty	Material and Remark
1	Cam Driver	1	Cast Iron
2	Cam Slide Guide	1	Bronze with Graphite
5	Cam Slider	1	Cast Iron
6	Slide Plate 01	2	Steel
8	Slide Plate 02	1	Steel
9	Positive Return	2	Steel
11	Cam Holder	1	Cast Iron
12	Slide Keeper A	1	Bronze with Graphite
15	Slide Keeper B	1	Bronze with Graphite
16	Wear Plate	1	Bronze with Graphite
18	Stopper Plate	1	Steel
19	Stopper	2	_
21	Pin	1	Steel
22	Gas Spring	1	Refer to the Spring Specification.
23	Lock Plate 01	1	Steel
24	Lock Plate 02	1	Steel
26	Key	4	LKU25-50 0°~35°, 75°
27	Key	4	LKU25-50 40°~70°
27	Key	1	Steel 0°~35°, 75°
28	Key	1	Steel 40°~70°
28	Key	1	LKU25-100 0°~35°, 75°
29	Key	1	LKU25-100 40°~70°

Bolts, nuts, dowels, and washers for assembly are not indicated.

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