NAAMS Aerial Cam Units (50mm)

■ **Return Springs**

CFCV : With coil spring.
CFCVG : With gas spring

■ **Slider Option**

B : Back-up type

■ **Slider Mounting Bolt (Optional)**

L : Slider mounting bolt included

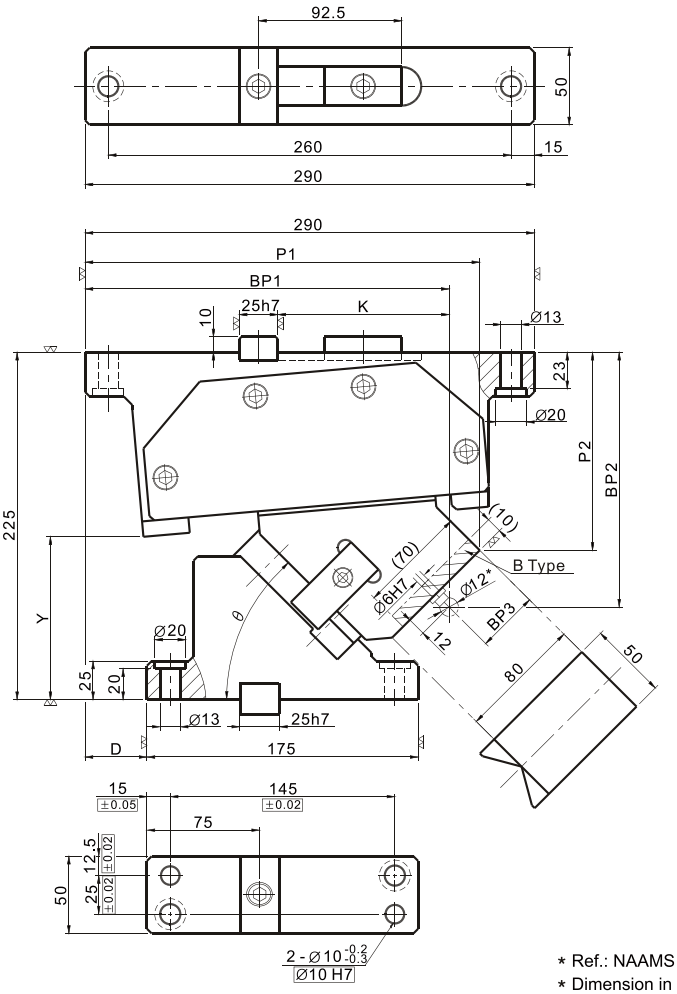
■ **Pin Hole (Optional)**

Blank : Drawing shape
N : ☐ Dimension & Tolerance

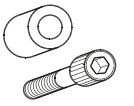
■ **Slider Standard Hole (Optional)**

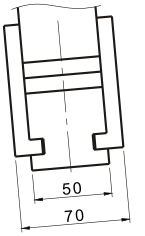
Blank : Ø6
X : No hole

CFCV/CFCVG 50



■ **Silder Mounting Bolt (Optional)**





* Ref.: NAAMS tooling ball #M011222
* Dimension in parenthese is for the back-up type (Optional)

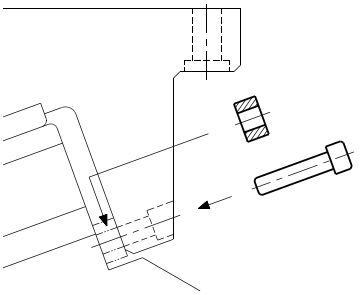
NAAMS Aerial Cam Units (50mm)

Catalog No.	NAAMS Code	Working Face (W)	Stroke (ST)	θ	P1	P2	BP1	BP2	BP3	K	D	Y
CFCV CFCVG	C130500	50	26	0	252.00	70.00	264	120	50	155.5	110	9.0
	C130505		28	5	256.40	74.14		125		149.5	105	19.4
	C130510		31	10	261.00	83.60	265	130	45	145.0	95	25.6
	C130515		34	15	268.06	88.43	268	135		140.5	89	37.2
	C130520		37	20	267.11	93.61	263	140		134.5	80	49.2
	C130525		40	25	266.03	103.68	260	145	40	130.0	70	57.1
	C130530		43	30	264.61	109.36	255	150		125.5	65	69.8
	C130535		47	35	260.11	115.35	247	155		119.5	52	82.5
	C130540		51	40	256.52	121.64	240	160		115.0	45	95.2
	C130545		56	45	254.80	128.23	235	165		110.5	40	107.5
	C130550		62	50	247.93	135.10	225	170		106.0	20	119.6
	C130555		70	55	245.07	136.49	211	175	50	101.5	5	
	C130560		60	60	237.97	147.11	205	180	45	98.5	-5	

Order CFCV50-43-30-B-L
CFCVG50-51-40-B-N

■ Slider mounting bolt - This bolt is used for fixing to the final working position in the die.

■ How to use 1. Disassemble either gas spring or coil spring.
2. Assemble slider mounting bolt as showing on below cut.
3. Cam slider will be fixed to the final working position.



* Notes - It might be some difference in proportion to accuracy of cam location and final height between upper die and bottom die.
- Tolerance of location is ± 0.5 mm

NAAMS Aerial Cam Units (75mm)

■ Return Springs

CFCV : With coil spring.
CFCVG : With gas spring

■ Slider Option

B : Back-up type

■ Slider Mounting Bolt (Optional)

L : Slider mounting bolt included

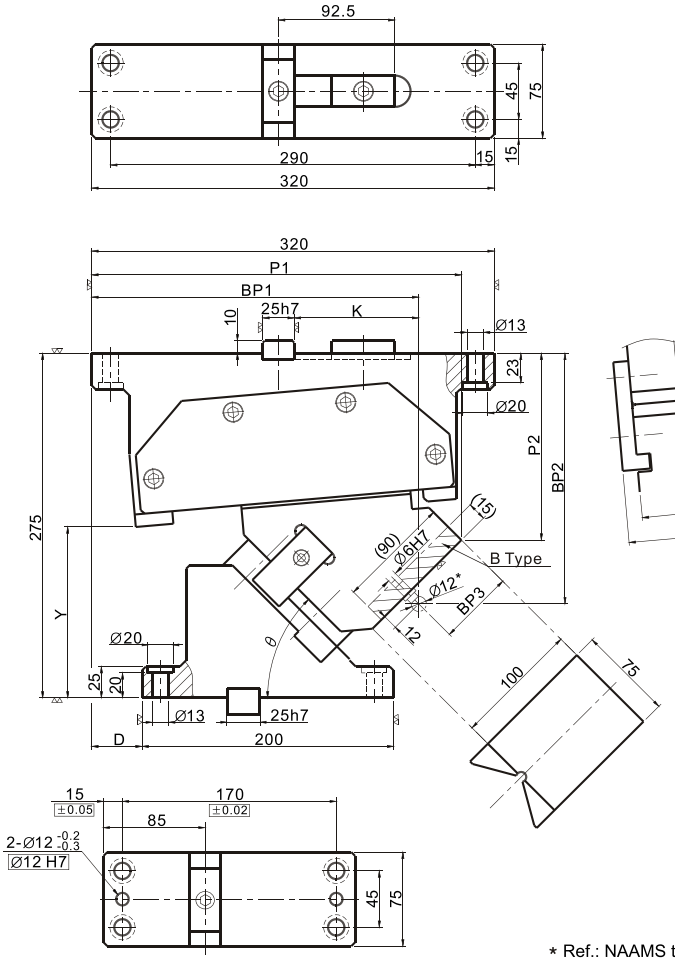
■ Pin Hole (Optional)

Blank : Drawing shape
N : ☐ Dimension & Tolerance

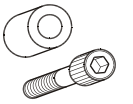
■ Slider Standard Hole (Optional)

Blank : Ø6
X : No hole

CFCV/CFCVG 75



■ Silder Mounting Bolt (Optional)



* Ref.: NAAMS tooling ball #M011222
* Dimension in parenthese is for the back-up type (Optional)

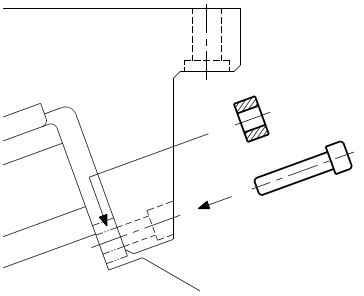
NAAMS Aerial Cam Units (75mm)

Catalog No.	NAAMS Code	Working Face (W)	Stroke (ST)	θ	P1	P2	BP1	BP2	BP3	K	D	Y
CFCV CFCVG	**C130700**	75	26	0	314.00	90.00	326	155	65	180.0	156	10.0
	C130705		28	5	314.28	99.18	321	160	60	160.5	141	17.4
	C130710		31	10	314.60	103.83	316	165		153.0	131	30.6
	C130715		34	15	305.94	108.94	302	170		144.0	109	44.5
	C130720		37	20	309.25	114.51	300	175		136.5	100	56.2
	C130725		40	25	304.48	120.55	290	180		127.5	85	71.2
	C130730		43	30	304.61	127.04	285	185		120.0	80	88.1
	C130735		47	35	301.58	133.97	277	190		112.5	67	101.6
	C130740		51	40	299.37	141.32	270	195		105.0	55	116.6
	C130745		56	45	393.94	149.09	260	200		99.0	40	131.4
	C130750		62	50	286.25	157.24	248	205		93.0	23	145.8
	C130755		70	55	275.27	165.76	233	210		72.0	0	
	C130760		60	60	267.97	182.11	235	215	45	79.0	-14	146.0

Order CFCV75-43-30-B-L
CFCVG75-51-40-B-N

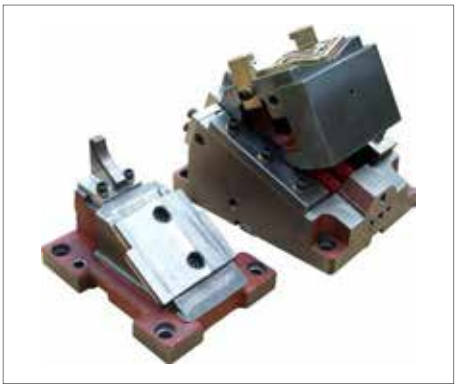
■ Slider mounting bolt - This bolt is used for fixing to the final working position in the die.

■ How to use 1. Disassemble either gas spring or coil spring.
2. Assemble slider mounting bolt as showing on below cut.
3. Cam slider will be fixed to the final working position.



* Notes - It might be some difference in proportion to accuracy of cam location and final height between upper die and bottom die.
- Tolerance of location is ± 0.5 mm

NAAMS Aerial Cam Units (150mm)



■ Return Springs

CFCV : With coil spring.
CFCVG : With gas spring

■ Slider Option

B : Back-up type

■ Slider Mounting Bolt (Optional)

L : Slider mounting bolt included

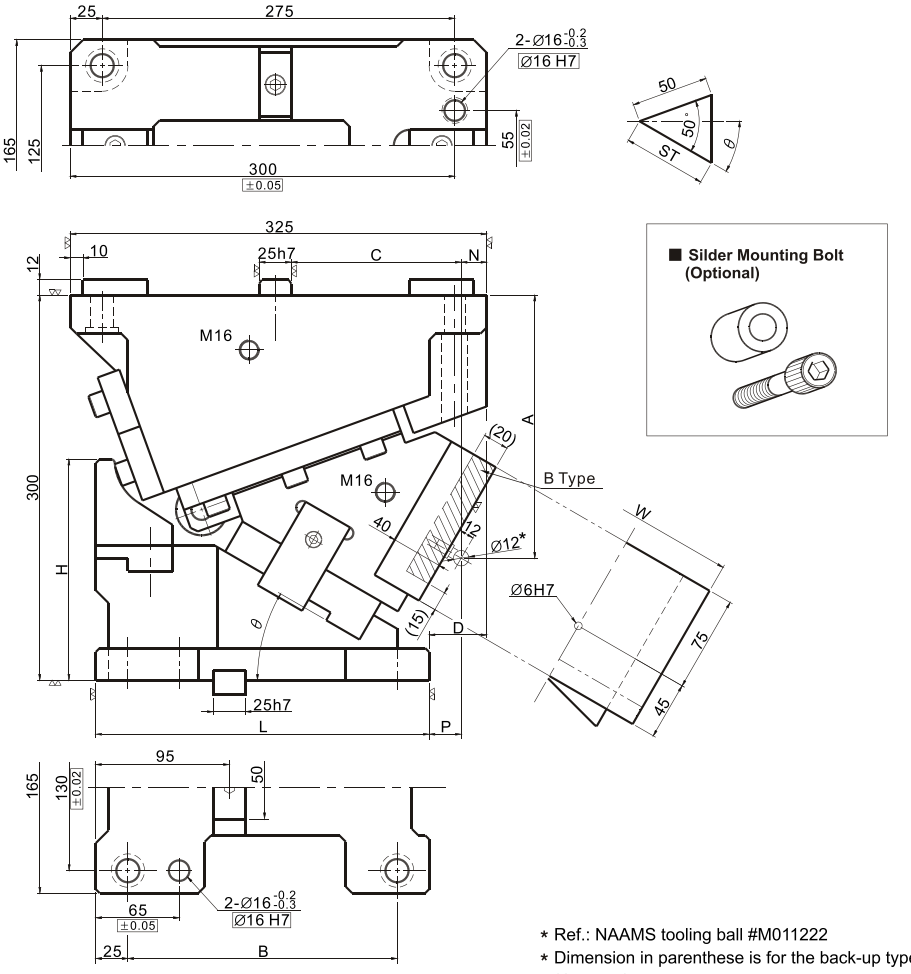
■ Pin Hole (Optional)

Blank : Drawing shape
N : ☐ Dimension & Tolerance

■ Slider Standard Hole (Optional)

Blank : Ø6
X : No hole

CFCV/CFCVG 125,150



* Ref.: NAAMS tooling ball #M011222
* Dimension in parenthese is for the back-up type (Optional)
* Mounting Bolt : M16

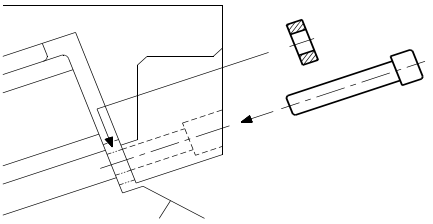
NAAMS Aerial Cam Units (150mm)

Catalog No.	NAAMS Code	Working Face (W)	Stroke (ST)	θ	A	P	N	D	C	H	L	B
CFCV CFCVG	**C131500**	125 150	32	0	170	-2.0	-28.0	-30.0	190.5	70	260	210
	C131505		35	5	175	15.0	-10.5	4.5	173.0	95		
	C131510		39	10	180	22.5	-3.0	19.5	165.5	102		
	C131515		42	15	185	30.0	-2.0	28.0	156.5	114		
	C131520		46	20	190	32.5	5.5	38.0	149.0	137		
	C131525		50	25	195	33.5	14.5	48.0	140.0	157		
	C131530		54	30	205	25.0	20.0	45.0	132.5	170		
	C131535		59	35	215	27.5	27.5	55.0	125.0	186		
	C131540		64	40	225	30.0	35.0	65.0	117.5	195		
	C131545		70	45	235	55.0	41.0	96.0	111.5	217		
	C131550		76	50	245	60.0	47.0	107.0	105.5	125	210	160
	C131555		87	55	255	64.5	52.5	117.0	120.0			
	C131560		100	60	265	67.5	64.5	132.0	113.0	140		

Order CFCV150-50-25-B-L
CFCVG150-54-30-B-N

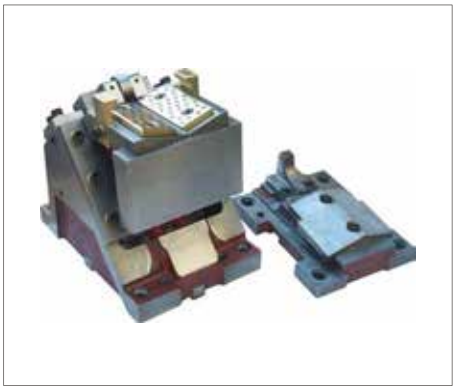
■ Slider mounting bolt - This bolt is used for fixing to the final working position in the die.

■ How to use 1. Disassemble either gas spring or coil spring.
2. Assemble slider mounting bolt as showing on below cut.
3. Cam slider will be fixed to the final working position.



* Notes - It might be some difference in proportion to accuracy of cam location and final height between upper die and bottom die.
- Tolerance of location is ± 0.5 mm

NAAMS Aerial Cam Units (175,200 mm)



■ Return Springs

CFCV : With coil spring.
CFCVG : With gas spring

■ Slider Option

B : Back-up type

■ Slider Mounting Bolt (Optional)

L : Slider mounting bolt included

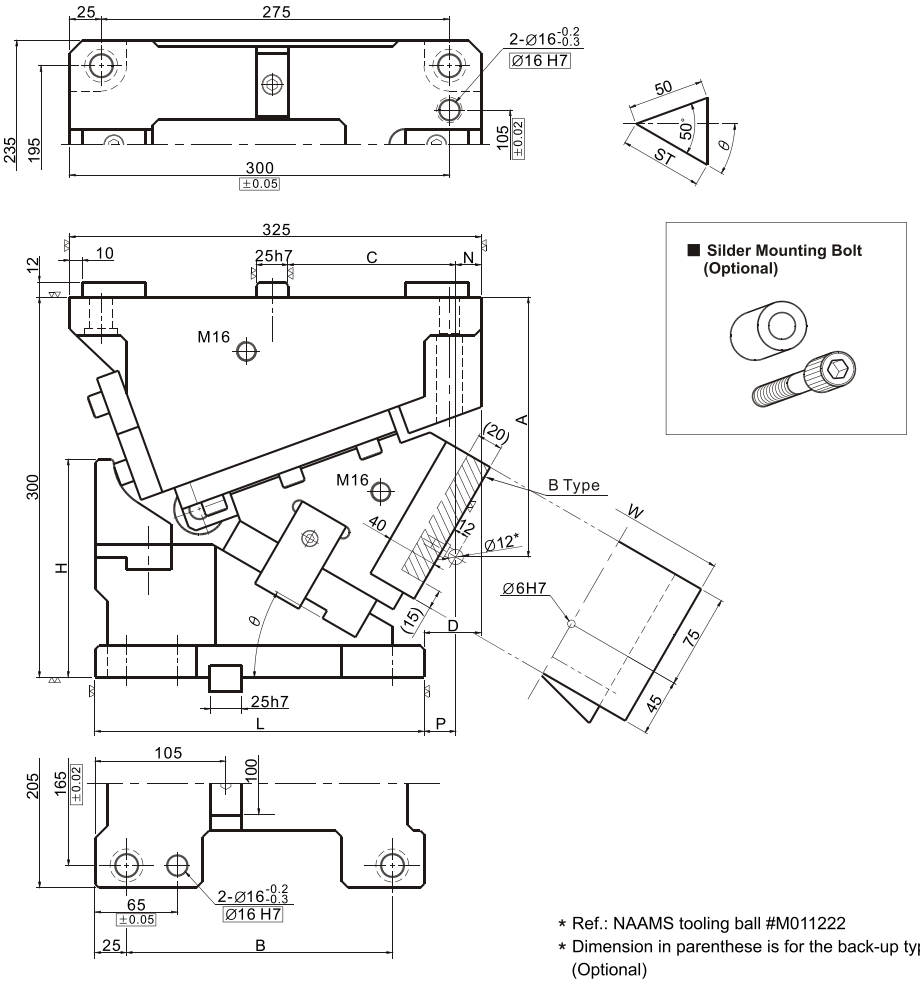
■ Pin Hole (Optional)

Blank : Drawing shape
N : ☐ Dimension & Tolerance

■ Slider Standard Hole (Optional)

Blank : Ø6
X : No hole

CFCV/CFCVG 175,200



■ Silder Mounting Bolt (Optional)

* Ref.: NAAMS tooling ball #M011222
* Dimension in parenthese is for the back-up type (Optional)
* Mounting Bolt : M16

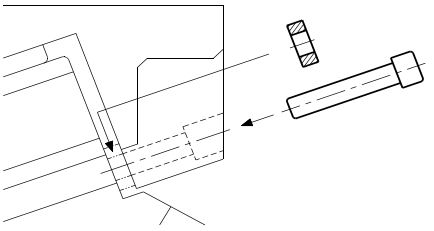
NAAMS Aerial Cam Units (175,200mm)

Catalog No.	NAAMS Code	Working Face (W)	Stroke (ST)	θ	A	P	N	D	C	H	L	B
CFCV CFCVG	C132000	175 200	32	0	170	-2.0	-28.0	-30.0	190.5	70	260	210
	C132005		35	5	175	15.0	-10.5	4.5	173.0	95		
	C132010		39	10	180	22.5	-3.0	19.5	165.5	102		
	C132015		42	15	185	30.0	-2.0	28.0	156.5	114		
	C132020		46	20	190	32.5	5.5	38.0	149.0	137		
	C132025		50	25	195	33.5	14.5	48.0	140.0	157		
	C132030		54	30	205	25.0	20.0	45.0	132.5	170		
	C132035		59	35	215	27.5	27.5	55.0	125.0	186		
	C132040		64	40	225	30.0	35.0	65.0	117.5	195		
	C132045		70	45	235	55.0	41.0	96.0	111.5	217		
	C132050		76	50	245	60.0	47.0	107.0	105.5	125	210	160
	C132055		87	55	255	64.5	52.5	117.0	120.0			
	C132012		100	60	265	67.5	64.5	132.0	113.0	140		

Order CFCV175-46-20-B-L
CFCVG200-70-45-B-N

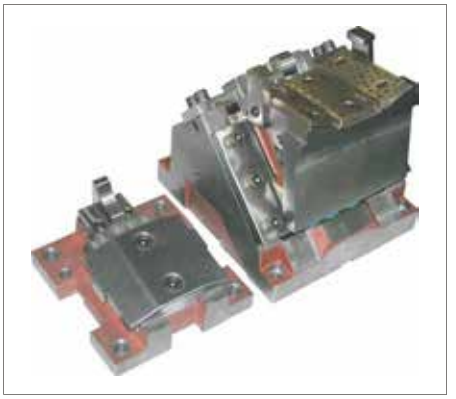
■ Slider mounting bolt - This bolt is used for fixing to the final working position in the die.

■ How to use 1. Disassemble either gas spring or coil spring.
2. Assemble slider mounting bolt as showing on below cut.
3. Cam slider will be fixed to the final working position.



* Notes - It might be some difference in proportion to accuracy of cam location and final height between upper die and bottom die.
- Tolerance of location is ± 0.5 mm

NAAMS Aerial Cam Units (250,300mm)



■ **Return Springs**

CFCV : With coil spring.
CFCVG : With gas spring

■ **Slider Mounting Bolt (Optional)**

L : Slider mounting bolt included

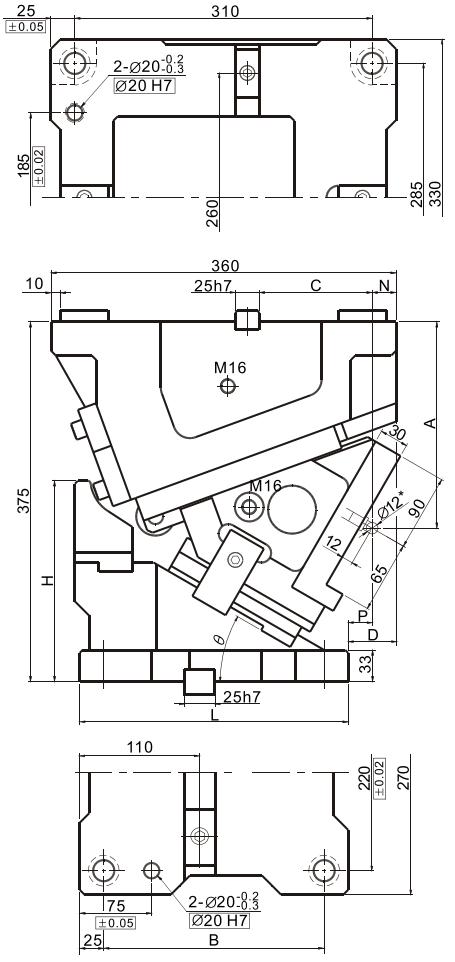
■ **Pin Hole (Optional)**

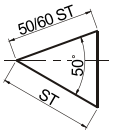
Blank : Drawing shape
N : ▭ Dimension & Tolerance

■ **Slider Standard Hole (Optional)**

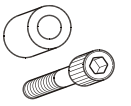
Blank : Ø6
X : No hole

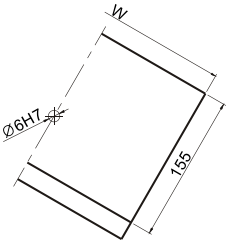
CFCV/CFCVG 250,300





■ **Silder Mounting Bolt (Optional)**





* Ref.: NAAMS tooling ball #M011222
* Mounting Bolt : M16

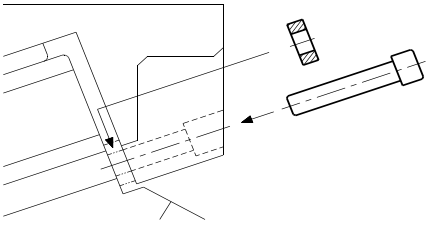
NAAMS Aerial Cam Units (250,300mm)

Catalog No.	NAAMS Code	Working Face (W)	Stroke (ST)	θ	A	P	N	D	C	H	L	B
CFCV CFCVG	C133000	250 300	38	0	180	-5.0	-48.0	-53.0	193.0	102	280	230
	C133005		42	5	185	5.0	-37.5	-32.5	182.5	125		
	C133010		46	10	190	15.0	-27.0	-12.0	172.0	142		
	C133015		51	15	195	25.0	-16.5	8.5	161.5	161		
	C133020		55	20	200	35.0	-6.0	29.0	151.0	180		
	C133025		50	25	205		14.5	49.5	140.5	198		
	C133030		54	30	215	25.0	25.0	50.0	130.0	211		
	C133035		59	35	225	30.0	34.0	64.0	121.0	230		
	C133040		64	40	235	25.0	43.0	68.0	112.0	241		
	C133045		70	45	245	25.0	52.0	77.0	103.0	263.5		
	C133050		78	50	265	90.0	66.0	156.0	94.0	160	230	180
	C133055		87	55	285	110.0	73.5	183.5	86.5	162		
	C133060		100	60	300		81.0	191.0	79.0	170		

Order CFCV250−46−10−L
CFCVG300−54−30−N

■ Slider mounting bolt - This bolt is used for fixing to the final working position in the die.

■ How to use 1. Disassemble either gas spring or coil spring.
2. Assemble slider mounting bolt as showing on below cut.
3. Cam slider will be fixed to the final working position.



* Notes − It might be some difference in proportion to accuracy of cam location and final height between upper die and bottom die.
− Tolerance of location is ± 0.5 mm