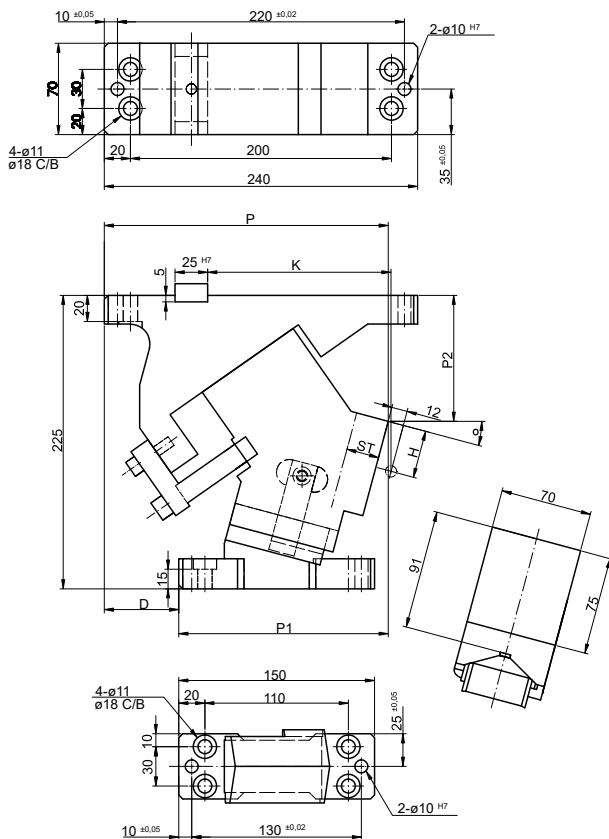


## CARROS AÉREOS CSRM AERIAL CAM UNITS CSRM



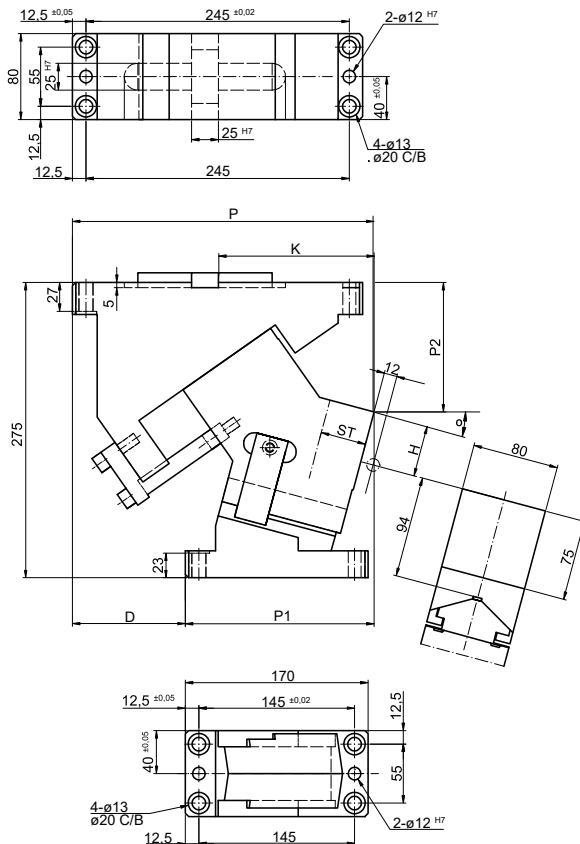
### CSRM 70

Code	W Working Face	$\theta$ Working Angle	ST Stroke	P	P1	P2	D	K	H	L	Max Work Force	Spring
												Extraction Force
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN
CSRM.70x0	70	0	19,3	237,37	135,37	85	102	155,5	35	-	90	0,38
CSRM.70x5	70	5	21,3	234,87	142,87	86,28	92	149,5	37,84	-	90	0,38
CSRM.70x10	70	10	23,3	232,82	151,82	88,76	81	145	39,76	-	90	0,38
CSRM.70x15	70	15	25,4	217,54	160,54	96,59	57	140,5	36,55	-	90	0,38
CSRM.70x20	70	20	27,6	224,52	172,52	99,67	52	134,5	38,55	-	90	0,38
CSRM.70x25	70	25	30	223,46	181,46	105,45	42	130	38,04	-	90	0,38
CSRM.70x30	70	30	32,6	211,54	181,54	112,99	30	125,5	35,81	-	90	0,38
CSRM.70x35	70	35	35,4	210,68	193,68	117,2	17	119,5	37,74	-	90	0,38
CSRM.70x40	70	40	38,6	204,84	200,84	125,07	4	115	35,53	-	90	0,38
CSRM.70x45	70	45	42,3	498,15	200,15	131,28	-2	110,5	35,68	-	90	0,38
CSRM.70x50	70	50	46,8	190,95	211,95	135,15	-21	106	39,92	-	90	0,38
CSRM.70x55	70	55	52,3	190,51	213,51	146,01	-23	101,5	33,41	-	90	0,28
CSRM.70x60	70	60	60	185,81	220,81	155,86	-35	98,5	27,5	-	90	0,38
CSRM.80x0	80	0	32,1	280	145	110	135	180	45	-	153	0,87

Continue next page...

How to order: Code + W x  $\theta$

## CARROS AÉREOS CSRM AERIAL CAM UNITS CSRM



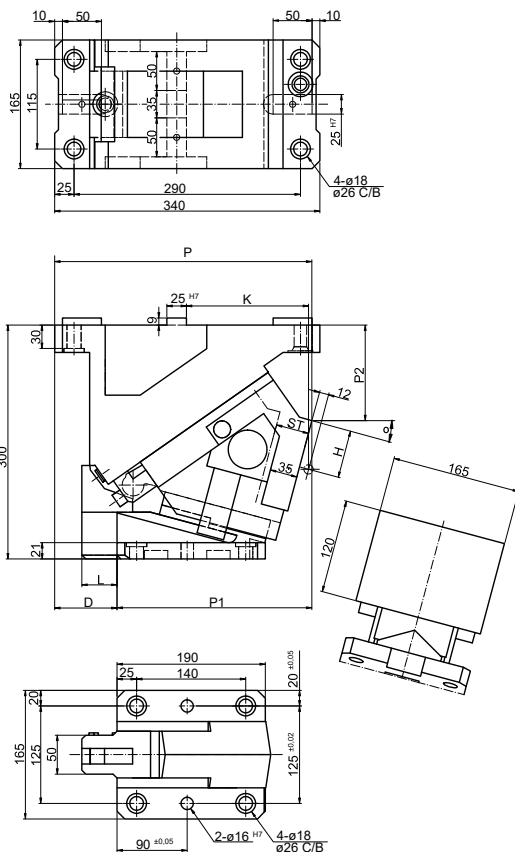
### CSRM 80

Code	W Working Face	θ Working Angle	ST Stroke	P	P1	P2	D	K	H	L	Max Work Force	Spring
												Extraction Force
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN
CSRM.80x5	80	5	35,5	281,31	156,31	115,93	125	160	43,19	-	153	0,87
CSRM.80x10	80	10	38,9	277,5	167,5	117,84	110	153	45,77	-	153	0,87
CSRM.80x15	80	15	42,4	280,48	175,48	120,72	105	144	47,8	-	153	0,87
CSRM.80x20	80	20	46,1	249,16	171,16	124,55	95	136,5	49,32	-	153	0,87
CSRM.80x25	80	25	50	274,48	191,48	129,29	80	127,5	50,35	-	153	0,87
CSRM.80x30	80	30	54,3	264,33	199,33	134,92	65	120	50,9	-	153	0,87
CSRM.80x35	80	35	59	260,66	205,66	141,38	55	112,5	50,95	-	153	0,87
CSRM.80x40	80	40	64,3	252,32	217,32	147,76	35	105	51,6	-	153	0,87
CSRM.80x45	80	45	70,45	247,46	217,46	156,61	30	99	49,36	-	153	0,87
CSRM.80x50	80	50	77,8	237,8	222,8	165,27	15	93	47,51	-	153	0,87
CSRM.80x55	80	55	87,2	231,36	231,36	174,53	0	72	44,7	-	153	0,71
CSRM.80x60	80	60	100	233,95	233,95	185,89	0	49	37,43	-	153	0,56

Continue next page...

How to order: Code + W x θ

## CARROS AÉREOS CSRM AERIAL CAM UNITS CSRM



### CSRM 165

N: Ø16H7 Dowel hole is drilled on the cam holder.

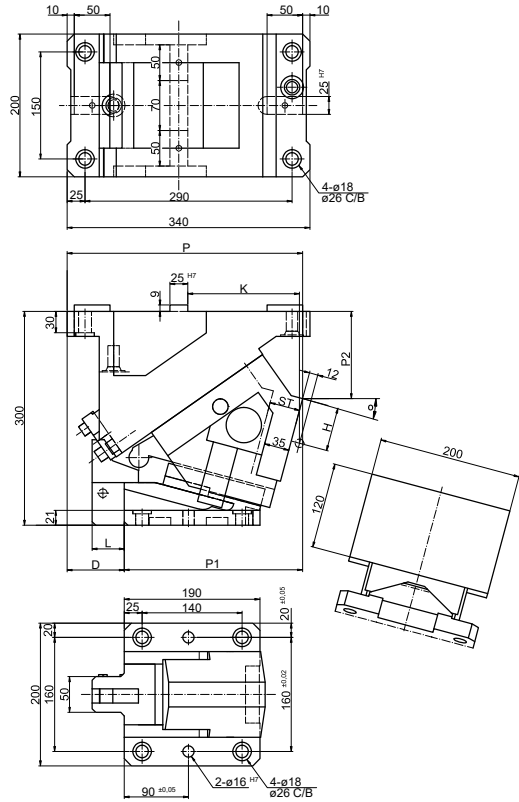
Code	W Working Face	θ Working Angle	ST Stroke	P	P1	P2	D	K	H	L	Max Work Force	Spring
												Extraction Force
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN
CSRM.165x0	165	0	32,1	335,84	207,84	96,98	128	180,5	73,02	55	340	1,49
CSRM.165x5	165	5	35,5	355,25	222,25	100,91	113	173	73,32	55	340	1,49
CSRM.165x10	165	10	38,9	337,27	236,27	111,09	101	165,5	67,86	50	340	1,49
CSRM.165x15	165	15	42,4	329,78	249,78	122,47	80	156,5	61,53	45	340	1,49
CSRM.165x20	165	20	46,1	332,68	262,386	129,99	70	149	59,49	42	340	1,49
CSRM.165x25	165	25	50	332,88	274,88	138,62	58	140	56,61	37	340	1,49
CSRM.165x30	165	30	54,3	334,28	286,28	148,28	48	132,5	58,57	30	340	1,49
CSRM.165x35	165	35	59	329,8	296,8	158,89	33	125	60,1	25	340	1,49
CSRM.165x40	165	40	64,3	321,35	306,35	170,38	15	117,55	61,23	25	340	1,49
CSRM.165x45	165	45	70,45	314,86	314,86	182,66	0	111,5	62,2	25	340	1,49
CSRM.165x50	165	50	77,8	307,27	322,27	195,63	-15	105,5	62,51	-	340	1,49
CSRM.165x55	165	55	87,2	296,59	328,59	210,3	-32	120	60,97	-	340	1,33
CSRM.165x60	165	60	100	288,56	333,56	222,26	-45	113	64,69	-	340	1,16

Continue next page...

How to order: Code + W x θ

## CARROS AÉREOS CSRM

### AERIAL CAM UNITS CSRM



#### CSRM 200

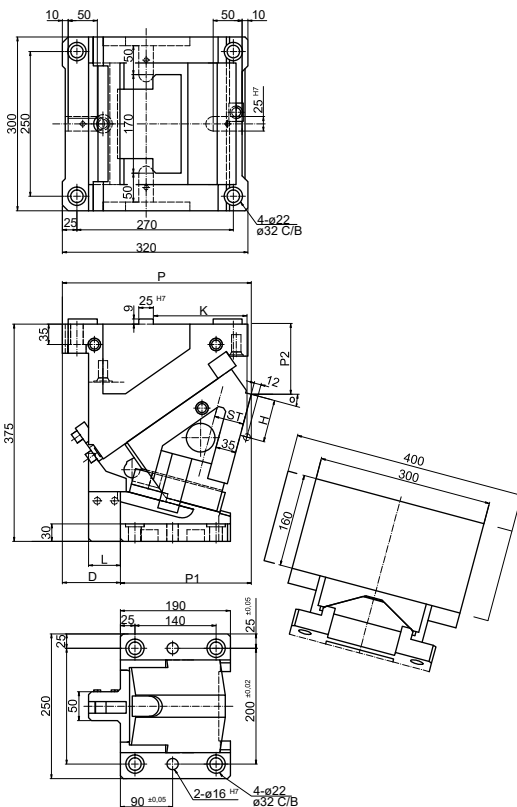
Ø16H7 Dowel hole is drilled on the cam holder.

Code	W Working Face mm	θ Working Angle mm	ST Stroke mm	P mm	P1 mm	P2 mm	D mm	K mm	H mm	L mm	Max Work Force kN	Spring
												Extraction Force kN
CSRM.200x0	200	0	32,1	335,84	207,84	96,98	128	180,5	73,02	55	408	2,35
CSRM.200x5	200	5	35,5	355,25	222,25	100,91	113	173	73,32	55	408	2,35
CSRM.200x10	200	10	38,9	337,27	236,27	111,09	101	165,5	67,86	50	408	2,35
CSRM.200x15	200	15	42,4	329,78	249,78	122,47	80	156,5	61,53	45	408	2,35
CSRM.200x20	200	20	46,1	332,68	262386	129,99	70	149	59,49	42	408	2,35
CSRM.200x25	200	25	50	332,88	274,88	138,62	58	140	56,61	37	408	2,35
CSRM.200x30	200	30	54,3	334,28	286,28	148,28	48	132,5	58,57	30	408	2,35
CSRM.200x35	200	35	59	329,8	296,8	158,89	33	125	60,1	25	408	2,35
CSRM.200x40	200	40	64,3	321,35	306,35	170,38	15	117,55	61,23	25	408	2,35
CSRM.200x45	200	45	70,45	314,86	314,86	182,66	0	111,5	62,2	25	408	2,35
CSRM.200x50	200	50	77,8	307,27	322,27	195,63	-15	105,5	62,51	-	408	2,35
CSRM.200x55	200	55	87,2	296,59	328,59	210,3	-32	120	60,97	-	408	2,09
CSRM.200x60	200	60	100	288,56	333,56	222,26	-45	113	64,69	-	408	1,82

Continue next page...

How to order: Code + W x θ

## CARROS AÉREOS CSRM AERIAL CAM UNITS CSRM



### CSRM 300

N: Ø16H7 Dowel hole is drilled on the cam holder.

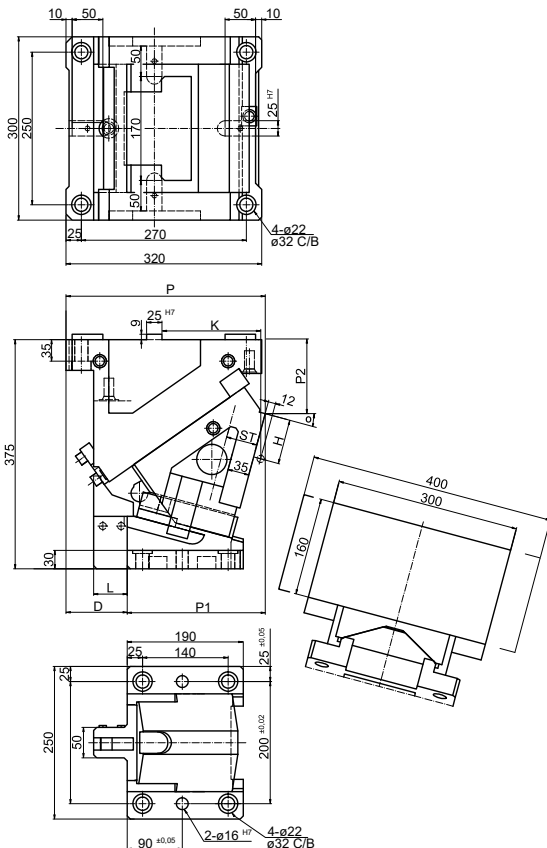
N20: Dowel pin holes of cam hold are changed to Ø20

Code	W Working Face	θ Working Angle	ST Stroke	P	P1	P2	D	K	H	L	Max Work Force	Spring
												Extraction Force
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN
CSRM.300x0	300	0	38,6	313	175	98	139	193	82	55	521	509
CSRM.300x5	300	5	42,6	317,15	192,15	104,19	125	182,5	80,07	55	521	509
CSRM.300x10	300	10	46,7	324,13	209,13	111,86	115	172	77,23	55	521	509
CSRM.300x15	300	15	50,9	325,82	225,82	121,01	100	161,5	73,39	55	521	509
CSRM.300x20	300	20	55,3	327,08	242,08	131,59	85	151	68,43	55	521	509
CSRM.300x25	300	25	60	334,71	259,71	138,65	75	140,5	67,61	50	521	509
CSRM.300x30	300	30	65,1	327,83	272,83	146,89	55	130	71,71	45	521	509
CSRM.300x35	300	35	70,8	334,51	289,51	159,17	45	121	71,96	35	521	509
CSRM.300x40	300	40	77,1	325,46	300,46	167,3	25	112	78,3	30	521	509
CSRM.300x45	300	45	84,5	324,84	317,84	179,24	9	103	81,01	30	521	509
CSRM.300x50	300	50	79,3	306,63	341,63	196,84	-35	94	91,73	-	521	4,36
CSRM.300x55	300	55	88,9	277,93	362,93	229,29	-85	86,5	79,99	-	521	3,89
CSRM.300x60	300	60	102	286,45	371,45	245,64	-85	79	87,94	-	521	3,89

Continue next page...

How to order: Code + W x θ

CARROS AÉREOS CSRM  
AERIAL CAM UNITS CSRM



**CSRM 400**

N: Ø16H7 Dowel hole is drilled on the cam holder.  
N20: Dowel pin holes of cam hold are changed to Ø20

Code	W Working Face	θ Working Angle	ST Stroke	P	P1	P2	D	K	H	L	Max Work Force	Spring
												Extraction Force
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN
CSRM.400x0	400	0	38,6	313	175	98	139	193	82	55	521	5,09
CSRM.400x5	400	5	42,6	317,15	192,15	104,19	125	182,5	80,07	55	521	5,09
CSRM.400x10	400	10	46,7	324,13	209,13	111,86	115	172	77,23	55	521	5,09
CSRM.400x15	400	15	50,9	325,82	225,82	121,01	100	161,5	73,39	55	521	5,09
CSRM.400x20	400	20	55,3	327,08	242,08	131,59	85	151	68,43	55	521	5,09
CSRM.400x25	400	25	60	334,71	259,71	138,65	75	140,5	67,61	50	521	5,09
CSRM.400x30	400	30	65,1	327,83	272,83	146,89	55	130	71,71	45	521	5,09
CSRM.400x35	400	35	70,8	334,51	289,51	159,17	45	121	71,96	35	521	5,09
CSRM.400x40	400	40	77,1	325,46	300,46	167,3	25	112	78,3	30	521	5,09
CSRM.400x45	400	45	84,5	324,84	317,84	179,24	9	103	81,01	30	521	5,09
CSRM.400x50	400	50	79,3	306,63	341,63	196,84	-35	94	91,73	-	521	4,36
CSRM.400x55	400	55	88,9	277,93	362,93	229,29	-85	86,5	79,99	-	521	3,89
CSRM.400x60	400	60	102	286,45	371,45	245,64	-85	79	87,94	-	521	3,39

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How to order: Code + W x θ