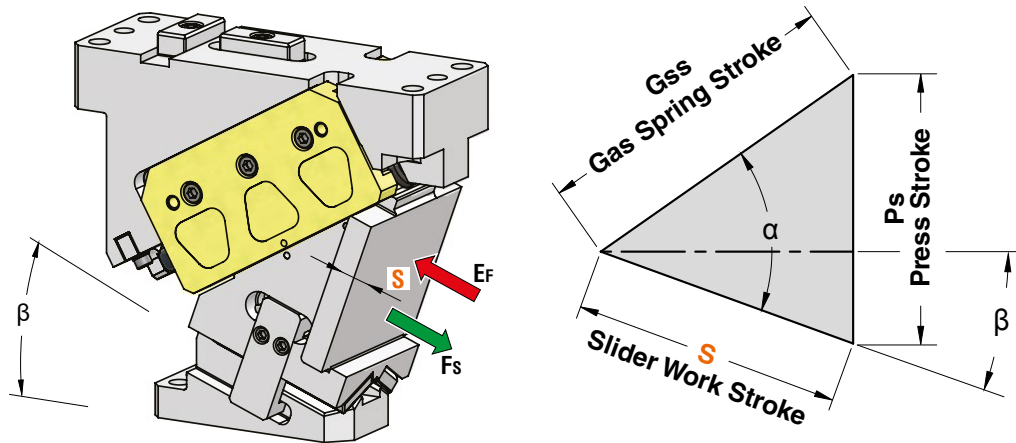


## 1. CAM DIAGRAM



OMCR CODE	Work Angle $\beta$	Slider Work Stroke S (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)	$\alpha - \beta$	$\alpha$
CHW110.00	0°	28	33,33	43,5	50°	50°
CHW110.05	5°	30,8	33,45	43,5	45°	50°
CHW110.10	10°	33,84	33,84	43,5	40°	50°
CHW110.15	15°	36,89	34,5	43,5	35°	50°
CHW110.20	20°	40	35,46	43,5	30°	50°
CHW110.25	25°	43,5	36,77	43,5	25°	50°
CHW110.30	30°	47,2	38,48	43,5	20°	50°
CHW110.35	35°	51,29	40,68	43,5	15°	50°
CHW110.40	40°	55,92	43,5	43,5	10°	50°
CHW110.45	45°	61,28	47,13	43,5	5°	50°
CHW110.50	50°	66,9	51,25	43	0°	50°
CHW110.55	55°	57,53	47,13	33	0°	55°
CHW110.60	60°	66	57,16	33	0°	60°
CHW110.65	65°	78,08	70,77	33	0°	65°
CHW110.70	70°	67,25	63,19	23	0°	70°
CHW110.75	75°	61,82	59,71	16	0°	75°



1. WORK FORCE DISTRIBUTION (kN) FOR 1 MILLION CYCLES

The following diagrams illustrate the maximum possible ranges of camforce applicable in several portions of the work area but always working in the exact direction of slider work stroke. If several forces are applied simultaneously on the work area, their common center has to be specified and compared with the tabular infos. The sum of all forces has to be lower than the corresponding tabular value.

**F<sub>s</sub>** Max Work Force with shoulder

**F<sub>k</sub>** Max Work Force with fitting keys

**Assembly with shoulder**

**Assembly with fitting keys**

		WIDTH		
		35	40	35
$\beta=0^\circ$				
HEIGHT	25	86	168	86
	25	67	210	67
	25	81	252	81
	25	59	186	59
	25	48	119	48

		WIDTH		
		35	40	35
$\beta=0^\circ$				
HEIGHT	25	60	118	60
	25	47	147	47
	25	57	176	57
	25	41	130	41
	25	34	83	34

		WIDTH		
		35	40	35
$\beta=5^\circ$				
HEIGHT	25	84	165	84
	25	67	210	67
	25	81	254	81
	25	61	189	61
	25	50	123	50

		WIDTH		
		35	40	35
$\beta=5^\circ$				
HEIGHT	25	59	116	59
	25	47	147	47
	25	57	178	57
	25	43	132	43
	25	35	86	35

		WIDTH		
		35	40	35
$\beta=10^\circ$				
HEIGHT	25	86	162	86
	25	69	209	69
	25	81	257	81
	25	63	192	63
	25	52	126	52

		WIDTH		
		35	40	35
$\beta=10^\circ$				
HEIGHT	25	60	113	60
	25	48	146	48
	25	57	180	57
	25	44	134	44
	25	36	88	36



**Assembly with shoulder**

		WIDTH		
		35	40	35
$\beta=15^\circ$				
HEIGHT	25	84	158	84
	25	69	207	69
	25	83	259	83
	25	63	195	63
	25	54	132	54

**Assembly with fitting keys**

		WIDTH		
		35	40	35
$\beta=15^\circ$				
HEIGHT	25	59	111	59
	25	48	145	48
	25	58	181	58
	25	44	137	44
	25	38	92	38

		WIDTH		
		35	40	35
$\beta=20^\circ$				
HEIGHT	25	82	155	82
	25	71	207	71
	25	83	261	83
	25	64	195	64
	25	56	136	56

		WIDTH		
		35	40	35
$\beta=20^\circ$				
HEIGHT	25	57	109	57
	25	50	145	50
	25	58	183	58
	25	45	137	45
	25	39	95	39

		WIDTH		
		35	40	35
$\beta=25^\circ$				
HEIGHT	25	79	150	79
	25	71	205	71
	25	84	263	84
	25	65	198	65
	25	60	142	60

		WIDTH		
		35	40	35
$\beta=25^\circ$				
HEIGHT	25	55	105	55
	25	50	144	50
	25	59	184	59
	25	46	139	46
	25	42	99	42

		WIDTH		
		35	40	35
$\beta=30^\circ$				
HEIGHT	25	77	147	77
	25	73	205	73
	25	84	265	84
	25	68	202	68
	25	62	146	62

		WIDTH		
		35	40	35
$\beta=30^\circ$				
HEIGHT	25	54	103	54
	25	51	144	51
	25	59	186	59
	25	48	141	48
	25	43	102	43



**Assembly with shoulder**

		WIDTH		
		35	40	35
$\beta=35^\circ$				
HEIGHT	25	75	143	75
	25	73	204	73
	25	85	267	85
	25	70	206	70
	25	63	152	63

**Assembly with fitting keys**

		WIDTH		
		35	40	35
$\beta=35^\circ$				
HEIGHT	25	53	100	53
	25	51	143	51
	25	60	187	60
	25	49	144	49
	25	44	106	44

		WIDTH		
		35	40	35
$\beta=40^\circ$				
HEIGHT	25	72	140	72
	25	74	203	74
	25	85	269	85
	25	72	210	72
	25	64	158	64

		WIDTH		
		35	40	35
$\beta=40^\circ$				
HEIGHT	25	50	98	50
	25	52	142	52
	25	60	188	60
	25	50	147	50
	25	45	111	45

		WIDTH		
		35	40	35
$\beta=45^\circ$				
HEIGHT	25	67	135	67
	25	75	202	75
	25	86	271	86
	25	74	215	74
	25	65	162	65

		WIDTH		
		35	40	35
$\beta=45^\circ$				
HEIGHT	25	47	95	47
	25	53	141	53
	25	60	190	60
	25	52	151	52
	25	46	113	46



**Assembly with shoulder**

		WIDTH		
		35	40	35
$\beta=50^\circ$				
HEIGHT	25	65	127	65
	25	76	200	76
	25	87	272	87
	25	77	220	77
	25	67	167	67

**Assembly with fitting keys**

		WIDTH		
		35	40	35
$\beta=50^\circ$				
HEIGHT	25	46	89	46
	25	53	140	53
	25	61	190	61
	25	54	154	54
	25	47	117	47

		WIDTH		
		35	40	35
$\beta=55^\circ$				
HEIGHT	25	62	125	62
	25	74	202	74
	25	87	285	87
	25	77	232	77
	25	67	170	67

		WIDTH		
		35	40	35
$\beta=55^\circ$				
HEIGHT	25	43	106	43
	25	52	172	52
	25	61	242	61
	25	54	197	54
	25	47	145	47

		WIDTH		
		35	40	35
$\beta=60^\circ$				
HEIGHT	25	55	120	55
	25	70	204	70
	25	86	296	86
	25	75	240	75
	25	65	171	65

		WIDTH		
		35	40	35
$\beta=60^\circ$				
HEIGHT	25	39	102	39
	25	49	173	49
	25	60	252	60
	25	53	204	53
	25	46	145	46



**Assembly with shoulder**

		WIDTH		
		35	40	35
$\beta=65^\circ$				
HEIGHT	25	50	112	50
	25	66	206	66
	25	86	308	86
	25	73	246	73
	25	62	172	62

**Assembly with fitting keys**

		WIDTH		
		35	40	35
$\beta=65^\circ$				
HEIGHT	25	35	101	35
	25	46	185	46
	25	60	277	60
	25	51	221	51
	25	43	155	43

		WIDTH		
		35	40	35
$\beta=70^\circ$				
HEIGHT	25	44	96	44
	25	63	208	63
	25	85	316	85
	25	70	249	70
	25	60	174	60

		WIDTH		
		35	40	35
$\beta=70^\circ$				
HEIGHT	25	31	96	31
	25	44	208	44
	25	60	316	60
	25	49	249	49
	25	42	174	42

		WIDTH		
		35	40	35
$\beta=75^\circ$				
HEIGHT	25	37	91	37
	25	60	209	60
	25	80	327	80
	25	73	251	73
	25	66	175	66

		WIDTH		
		35	40	35
$\beta=75^\circ$				
HEIGHT	25	26	91	26
	25	42	209	42
	25	56	327	56
	25	51	251	51
	25	46	175	46