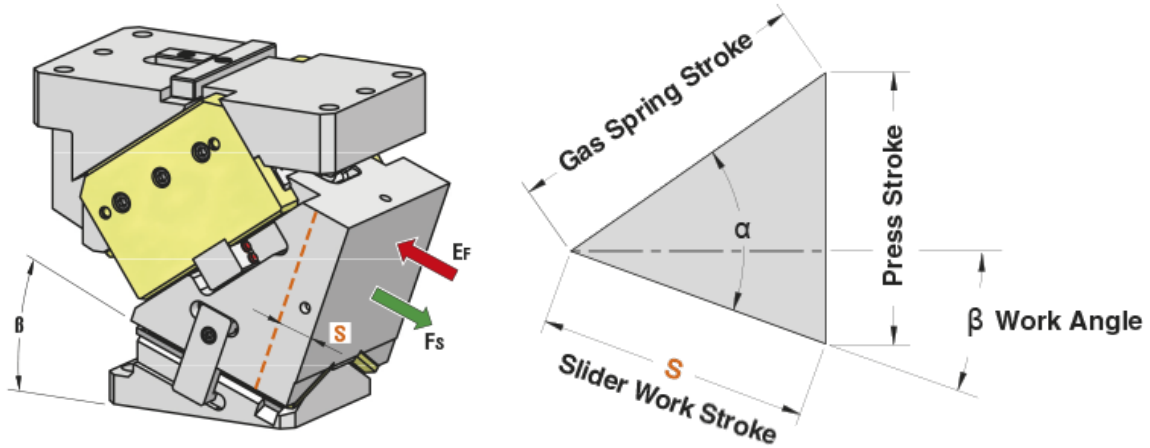




**1. CAM DIAGRAM**



OMCR CODE	Work Angle $\beta$	Slider Work Stroke S (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)	$\alpha - \beta$	$\alpha$
CHV180.00	0°	32,14	38,30	50	50°	50°
CHV180.05	5°	35,49	38,45	50	45°	50°
CHV180.10	10°	35,90	41,59	50	45°	55°
CHV180.15	15°	39,65	42,40	50	40°	55°
CHV180.20	20°	43,59	43,59	50	35°	55°
CHV180.25	25°	45,19	47,78	50	35°	60°
CHV180.30	30°	50,00	50,00	50	30°	60°
CHV180.35	35°	52,86	55,32	50	30°	65°
CHV180.40	40°	59,16	59,16	50	25°	65°
CHV180.45	45°	64,09	66,45	50	25°	70°
CHV180.50	50°	73,10	73,10	50	20°	70°
CHV180.55	55°	81,92	84,20	50	20°	75°
CHV180.60	60°	96,59	96,59	50	15°	75°
CHV180.65	65°	91,42	93,21	40	15°	80°
CHV180.70	70°	84,73	87,38	30	15°	85°
CHV180.75	75°	76,10	76,98	20	10°	85°



## 2. 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					
		40	40	20	40	40	
HEIGHT	$\beta=0^\circ$	32	83	172	244	172	83
	32	109	226	321	226	109	
	32	135	280	397	280	135	
	32	184	333	474	333	184	
	32	99	117	167	117	99	

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=0^\circ$	32	50	121	147	121	50
	32	65	158	192	158	65	
	32	81	196	238	196	81	
	32	110	233	284	233	110	
	32	59	82	100	82	59	

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=5^\circ$	32	81	158	233	158	81
	32	106	207	305	207	106	
	32	132	276	378	276	132	
	32	191	356	488	356	191	
	32	120	153	199	153	120	

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=5^\circ$	32	49	110	140	110	49
	32	64	145	183	145	64	
	32	79	193	227	193	79	
	32	114	249	293	249	114	
	32	72	107	120	107	72	



Assembly with shoulder

		WIDTH				
		40	40	20	40	40
$\beta=10^\circ$						
HEIGHT	32	79	143	221	143	79
	32	104	187	290	187	104
	32	129	272	359	272	129
	32	198	338	503	338	198
	32	133	188	232	188	133

Assembly with fitting keys

		WIDTH				
		40	40	20	40	40
$\beta=10^\circ$						
HEIGHT	32	47	100	132	100	47
	32	62	131	174	131	62
	32	77	190	215	190	77
	32	119	237	302	237	119
	32	80	132	139	132	80

		WIDTH				
		40	40	20	40	40
$\beta=15^\circ$						
HEIGHT	32	77	128	209	128	77
	32	101	168	274	168	101
	32	125	267	340	267	125
	32	205	317	518	317	205
	32	146	212	264	212	146

		WIDTH				
		40	40	20	40	40
$\beta=15^\circ$						
HEIGHT	32	46	90	125	90	46
	32	61	118	165	118	61
	32	75	187	204	187	75
	32	123	222	311	222	123
	32	88	148	159	148	88

		WIDTH				
		40	40	20	40	40
$\beta=20^\circ$						
HEIGHT	32	75	113	197	113	75
	32	99	149	259	149	99
	32	122	263	321	263	122
	32	211	296	533	296	211
	32	159	209	297	209	159

		WIDTH				
		40	40	20	40	40
$\beta=20^\circ$						
HEIGHT	32	45	79	118	79	45
	32	59	104	155	104	59
	32	73	184	192	184	73
	32	127	207	320	207	127
	32	95	146	178	146	95



Assembly with shoulder

Assembly with fitting keys

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=25^\circ$	32	73	98	185	98	73
	32	96	129	243	129	96	
	32	119	259	302	259	119	
	32	218	275	542	275	218	
	32	172	205	330	205	172	

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=25^\circ$	32	44	69	111	69	44
	32	58	91	146	91	58	
	32	71	181	181	181	71	
	32	131	192	325	192	131	
	32	103	143	198	143	103	

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=30^\circ$	32	71	84	173	84	71
	32	93	110	228	110	93	
	32	116	255	283	255	116	
	32	225	253	543	253	225	
	32	185	201	362	201	185	

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=30^\circ$	32	43	59	104	59	43
	32	56	77	137	77	56	
	32	69	179	170	179	69	
	32	135	177	326	177	135	
	32	111	141	217	141	111	

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=35^\circ$	32	69	69	161	69	69
	32	91	91	212	91	91	
	32	113	251	264	251	113	
	32	232	232	543	232	232	
	32	198	198	427	198	198	

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=35^\circ$	32	41	48	97	48	41
	32	54	64	127	64	54	
	32	68	176	158	176	68	
	32	139	162	326	162	139	
	32	119	139	256	139	119	



Assembly with shoulder

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=40^\circ$	32	64	70	164	70	64
	32	86	96	227	96	86	
	32	108	244	289	244	108	
	32	215	234	550	234	215	
	32	181	194	433	194	181	

Assembly with fitting keys

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=40^\circ$	32	40	51	104	51	40
	32	54	71	143	71	54	
	32	68	180	183	180	68	
	32	136	172	347	172	136	
	32	115	143	273	143	115	

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=45^\circ$	32	59	71	167	71	59
	32	81	102	241	102	81	
	32	103	236	315	236	103	
	32	198	235	557	235	198	
	32	165	190	438	190	165	

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=45^\circ$	32	37	52	105	52	37
	32	51	75	152	75	51	
	32	65	174	199	174	65	
	32	125	173	352	173	125	
	32	104	140	277	140	104	

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=50^\circ$	32	54	71	170	71	54
	32	76	107	255	107	76	
	32	99	229	341	229	99	
	32	181	237	564	237	181	
	32	148	187	443	187	148	

		WIDTH					
		40	40	20	40	40	
HEIGHT	$\beta=50^\circ$	32	34	53	107	53	34
	32	48	79	161	79	48	
	32	62	169	215	169	62	
	32	114	175	356	175	114	
	32	94	138	280	138	94	



Assembly with shoulder

Assembly with fitting keys

		WIDTH				
		40	40	20	40	40
$\beta=55^\circ$		40	40	20	40	40
HEIGHT	32	49	72	173	72	49
	32	72	112	270	112	72
	32	94	222	367	222	94
	32	164	239	571	239	164
	32	132	183	436	183	132

		WIDTH				
		40	40	20	40	40
$\beta=55^\circ$		40	40	20	40	40
HEIGHT	32	31	61	109	61	31
	32	45	96	170	96	45
	32	59	189	232	189	59
	32	103	203	360	203	103
	32	83	156	276	156	83

		WIDTH				
		40	40	20	40	40
$\beta=60^\circ$		40	40	20	40	40
HEIGHT	32	44	73	176	73	44
	32	67	118	284	118	67
	32	89	215	393	215	89
	32	147	240	578	240	147
	32	115	179	430	179	115

		WIDTH				
		40	40	20	40	40
$\beta=60^\circ$		40	40	20	40	40
HEIGHT	32	28	62	111	62	28
	32	42	100	179	100	42
	32	56	182	248	182	56
	32	93	204	365	204	93
	32	73	152		152	73

		WIDTH				
		40	40	20	40	40
$\beta=65^\circ$		40	40	20	40	40
HEIGHT	32	39	74	179	74	39
	32	62	123	299	123	62
	32	84	207	418	207	84
	32	130	242	584	242	130
	32	99	176	423	176	99

		WIDTH				
		40	40	20	40	40
$\beta=65^\circ$		40	40	20	40	40
HEIGHT	32	26	69	119	69	26
	32	41	115	199	115	41
	32	56	193	279	193	56
	32	86	225	390	225	86
	32	66	163	282	163	66



Assembly with shoulder

		WIDTH				
		40	40	20	40	40
HEIGHT	$\beta=70^\circ$					
	32	34	75	182	75	34
	32	57	129	313	129	57
	32	80	200	444	200	80
	32	113	244	591	244	113
	32	82	172	417	172	82

Assembly with fitting keys

		WIDTH				
		40	40	20	40	40
HEIGHT	$\beta=70^\circ$					
	32	23	75	121	75	23
	32	38	129	209	129	38
	32	53	200	296	200	53
	32	75	244	394	244	75
	32	55	172	278	172	55

		WIDTH				
		40	40	20	40	40
HEIGHT	$\beta=75^\circ$					
	32	29	76	184	76	29
	32	52	134	327	134	52
	32	75	193	470	193	75
	32	96	245	598	245	96
	32	65	168	410	168	65

		WIDTH				
		40	40	20	40	40
HEIGHT	$\beta=75^\circ$					
	32	20	76	123	76	20
	32	35	134	218	134	35
	32	50	193	313	193	50
	32	64	245	399	245	64
	32	44	168	273	168	44