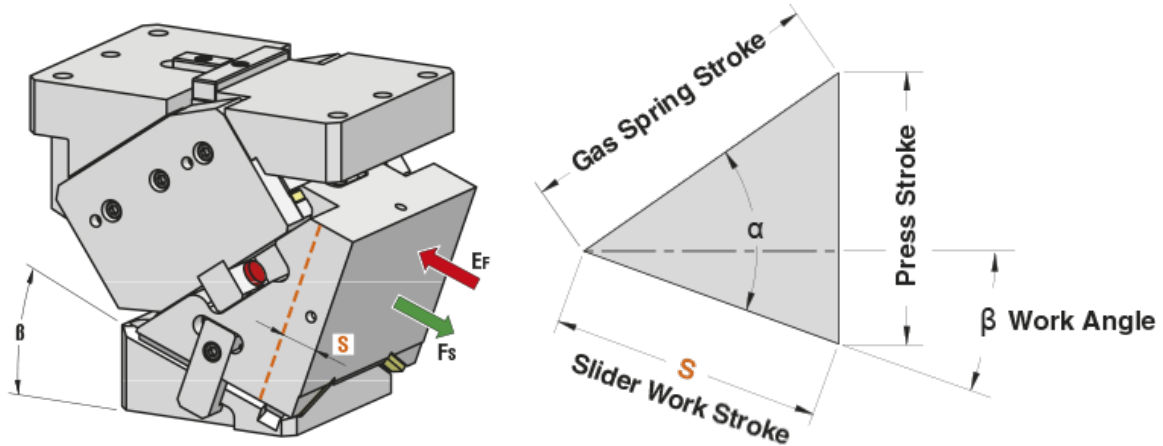




1. CAM DIAGRAM



OMCR CODE	Work Angle β	Slider Work Stroke S (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)	$\alpha - \beta$	α
CHV220.00	0°	32,14	38,30	50	50°	50°
CHV220.05	5°	35,49	38,45	50	45°	50°
CHV220.10	10°	35,90	41,59	50	45°	55°
CHV220.15	15°	39,65	42,40	50	40°	55°
CHV220.20	20°	43,59	43,59	50	35°	55°
CHV220.25	25°	45,19	47,78	50	35°	60°
CHV220.30	30°	50,00	50,00	50	30°	60°
CHV220.35	35°	52,86	55,32	50	30°	65°
CHV220.40	40°	59,16	59,16	50	25°	65°
CHV220.45	45°	64,09	66,45	50	25°	70°
CHV220.50	50°	73,10	73,10	50	20°	70°
CHV220.55	55°	81,92	84,20	50	20°	75°
CHV220.60	60°	96,59	96,59	50	15°	75°
CHV220.65	65°	91,42	93,21	40	15°	80°
CHV220.70	70°	100,78	100,78	35	10°	80°
CHV220.75	75°	95,13	96,23	25	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_s

Max Work Force with shoulder

F_k

Max Work Force with fitting keys

Assembly with shoulder

		WIDTH				
		50	50	20	50	50
$\beta=0^\circ$		50	50	20	50	50
HEIGHT	32	64	143	307	143	64
	32	70	157	354	157	70
	32	76	170	384	170	76
	32	143	318	635	318	143
	32	89	198	396	198	89
	32	89	198	396	198	89

Assembly with fitting keys

		WIDTH				
		50	50	20	50	50
$\beta=0^\circ$		50	50	20	50	50
HEIGHT	32	38	79	153	79	38
	32	42	86	177	86	42
	32	46	93	192	93	46
	32	86	175	317	175	86
	32	53	109	198	109	53
	32	53	109	198	109	53

		WIDTH				
		50	50	20	50	50
$\beta=5^\circ$		50	50	20	50	50
HEIGHT	32	68	144	306	144	68
	32	77	162	355	162	77
	32	152	329	394	329	152
	32	107	218	648	218	107
	32	105	219	415	219	105
	32	105	219	415	219	105

		WIDTH				
		50	50	20	50	50
$\beta=5^\circ$		50	50	20	50	50
HEIGHT	32	41	79	153	79	41
	32	46	89	178	89	46
	32	91	181	197	181	91
	32	64	120	324	120	64
	32	63	121	208	121	63
	32	63	121	208	121	63



Assembly with shoulder

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=10^\circ$	32	71	145	305	145	71
	32	83	168	357	168	83	
	32	121	235	404	235	121	
	32	123	239	661	239	123	
	32	121	240	435	240	121	

Assembly with fitting keys

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=10^\circ$	32	43	80	152	80	43
	32	50	93	179	93	50	
	32	73	129	202	129	73	
	32	74	131	330	131	74	
	32	73	132	217	132	73	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=15^\circ$	32	75	146	304	146	75
	32	90	174	359	174	90	
	32	138	256	414	256	138	
	32	139	260	674	260	139	
	32	138	261	454	261	138	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=15^\circ$	32	45	80	152	80	45
	32	54	96	179	96	54	
	32	83	141	207	141	83	
	32	84	143	337	143	84	
	32	83	144	227	144	83	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=20^\circ$	32	78	147	298	147	78
	32	96	180	361	180	96	
	32	154	277	424	277	154	
	32	156	281	687	281	156	
	32	154	282	473	282	154	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=20^\circ$	32	47	81	149	81	47
	32	58	99	180	99	58	
	32	92	152	212	152	92	
	32	93	154	344	154	93	
	32	92	155	237	155	92	



Assembly with shoulder

Assembly with fitting keys

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=25^\circ$	32	81	148	291	148	81
	32	103	186	363	186	103	
	32	170	298	434	298	170	
	32	172	301	700	301	172	
	32	170	303	493	303	170	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=25^\circ$	32	49	81	146	81	49
	32	62	102	181	102	62	
	32	102	164	217	164	102	
	32	103	166	350	166	103	
	32	102	167	246	167	102	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=30^\circ$	32	85	149	285	149	85
	32	110	192	364	192	110	
	32	187	319	444	319	187	
	32	188	322	714	322	188	
	32	187	324	512	324	187	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=30^\circ$	32	51	82	142	82	51
	32	66	105	182	105	66	
	32	112	175	222	175	112	
	32	113	177	357	177	113	
	32	112	178	256	178	112	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=35^\circ$	32	88	150	278	150	88
	32	116	197	366	197	116	
	32	144	245	454	245	144	
	32	268	454	727	454	268	
	32	203	345	551	345	203	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=35^\circ$	32	53	98	167	98	53
	32	70	128	220	128	70	
	32	86	159	272	159	86	
	32	161	295	436	295	161	
	32	122	224	331	224	122	



Assembly with shoulder

Assembly with fitting keys

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=40^\circ$	32	88	150	274	150	88
	32	119	202	369	202	119	
	32	266	453	464	453	266	
	32	204	347	727	347	204	
	32	199	339	540	339	199	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=40^\circ$	32	56	97	164	97	56
	32	75	132	221	132	75	
	32	168	295	278	295	168	
	32	129	226	436	226	129	
	32	126	220	324	220	126	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=45^\circ$	32	88	150	270	150	88
	32	121	207	372	207	121	
	32	202	346	474	346	202	
	32	200	341	728	341	200	
	32	195	333	528	333	195	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=45^\circ$	32	55	90	175	90	55
	32	77	124	242	124	77	
	32	128	208	308	208	128	
	32	126	205	473	205	126	
	32	123	200	343	200	123	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=50^\circ$	32	87	149	265	149	87
	32	124	212	374	212	124	
	32	198	340	484	340	198	
	32	195	335	729	335	195	
	32	191	327	516	327	191	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=50^\circ$	32	55	90	172	90	55
	32	78	127	243	127	78	
	32	125	204	314	204	125	
	32	123	201	474	201	123	
	32	121	196	335	196	121	



Assembly with shoulder

Assembly with fitting keys

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=55^\circ$	32	87	149	261	149	87
	32	126	217	377	217	126	
	32	194	334	494	334	194	
	32	191	329	729	329	191	
	32	187	321	504	321	187	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=55^\circ$	32	55	90	208	90	55
	32	80	130	302	130	80	
	32	123	200	395	200	123	
	32	121	197	583	197	121	
	32	118	192	404	192	118	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=60^\circ$	32	86	149	256	149	86
	32	129	222	380	222	129	
	32	190	328	504	328	190	
	32	187	323	730	323	187	
	32	183	314	493	314	183	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=60^\circ$	32	55	89	218	89	55
	32	81	133	323	133	81	
	32	120	197	428	197	120	
	32	118	194	620	194	118	
	32	115	189	419	189	115	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=65^\circ$	32	86	149	252	149	86
	32	131	227	383	227	131	
	32	189	327	514	327	189	
	32	188	325	730	325	188	
	32	179	308	481	308	179	

		WIDTH					
		50	50	20	50	50	
HEIGHT	$\beta=65^\circ$	32	57	91	234	91	57
	32	88	139	356	139	88	
	32	126	200	478	200	126	
	32	125	199	679	199	125	
	32	119	188	447	188	119	



Assembly with shoulder

		WIDTH				
		50	50	20	50	50
$\beta=70^\circ$						
HEIGHT	32	86	148	247	148	86
	32	134	232	385	232	134
	32	187	324	524	324	187
	32	179	311	731	311	179
	32	175	302	469	302	175

Assembly with fitting keys

		WIDTH				
		50	50	20	50	50
$\beta=70^\circ$						
HEIGHT	32	57	91	247	91	57
	32	89	142	385	142	89
	32	124	198	524	198	124
	32	120	190	731	190	120
	32	116	185	469	185	116

		WIDTH				
		50	50	20	50	50
$\beta=75^\circ$						
HEIGHT	32	85	148	243	148	85
	32	136	237	388	237	136
	32	187	326	527	326	187
	32	273	474	732	474	273
	32	171	296	458	296	171

		WIDTH				
		50	50	20	50	50
$\beta=75^\circ$						
HEIGHT	32	57	91	243	91	57
	32	91	145	388	145	91
	32	125	199	527	199	125
	32	182	289	732	289	182
	32	114	181	458	181	114