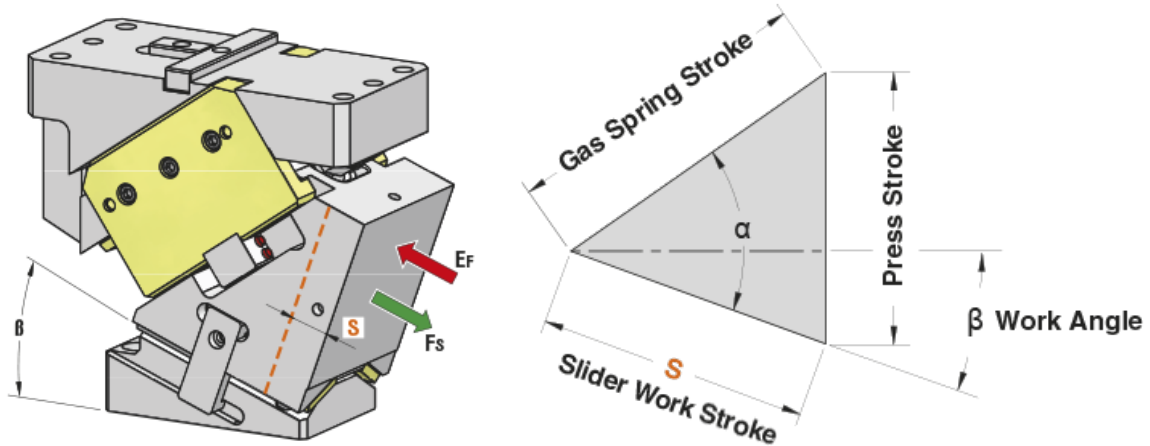




### 1. CAM DIAGRAM



OMCR CODE	Work Angle $\beta$	Slider Work Stroke S (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)	$\alpha - \beta$	$\alpha$
CHV150.00	0°	32,14	38,30	50	50°	50°
CHV150.05	5°	35,49	38,45	50	45°	50°
CHV150.10	10°	35,90	41,59	50	45°	55°
CHV150.15	15°	39,65	42,40	50	40°	55°
CHV150.20	20°	43,59	43,59	50	35°	55°
CHV150.25	25°	45,19	47,78	50	35°	60°
CHV150.30	30°	50,00	50,00	50	30°	60°
CHV150.35	35°	52,86	55,32	50	30°	65°
CHV150.40	40°	59,16	59,16	50	25°	65°
CHV150.45	45°	64,09	66,45	50	25°	70°
CHV150.50	50°	73,10	73,10	50	20°	70°
CHV150.55	55°	81,92	84,20	50	20°	75°
CHV150.60	60°	96,59	96,59	50	15°	75°
CHV150.65	65°	91,42	93,21	40	15°	80°
CHV150.70	70°	84,73	87,38	30	15°	85°
CHV150.75	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>**  
**k**

Max Work Force with fitting keys

### Assembly with shoulder

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=0^\circ$	32	53	112	226	112	53
	32	77	162	327	162	77	
	32	101	212	428	212	101	
	32	99	209	<b>421</b>	209	99	
	32	97	205	414	205	97	

### Assembly with fitting keys

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=0^\circ$	32	32	67	158	67	32
	32	46	97	229	97	46	
	32	60	127	300	127	60	
	32	59	125	<b>295</b>	125	59	
	32	58	123	290	123	58	

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=5^\circ$	32	51	107	223	107	51
	32	75	157	327	157	75	
	32	98	207	432	207	98	
	32	99	208	<b>435</b>	208	99	
	32	95	200	417	200	95	

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=5^\circ$	32	31	64	156	64	31
	32	45	94	229	94	45	
	32	59	124	302	124	59	
	32	59	125	<b>304</b>	125	59	
	32	57	120	292	120	57	



Assembly with shoulder

Assembly with fitting keys

		WIDTH				
		35	30	20	30	35
$\beta=10^\circ$		35	30	20	30	35
HEIGHT	32	49	102	219	102	49
	32	72	152	327	152	72
	32	96	202	436	202	96
	32	98	207	448	207	98
	32	93	196	420	196	93

		WIDTH				
		35	30	20	30	35
$\beta=10^\circ$		35	30	20	30	35
HEIGHT	32	29	61	153	61	29
	32	43	91	229	91	43
	32	58	121	305	121	58
	32	59	124	314	124	59
	32	56	117	294	117	56

		DIMENSIONE				
		35	30	20	30	35
$\beta=15^\circ$		35	30	20	30	35
HEIGHT	32	46	98	215	98	46
	32	70	147	327	147	70
	32	94	197	439	197	94
	32	98	206	462	206	98
	32	91	191	423	191	91

		DIMENSIONE				
		35	30	20	30	35
$\beta=15^\circ$		35	30	20	30	35
HEIGHT	32	28	59	151	59	28
	32	42	88	229	88	42
	32	56	118	308	118	56
	32	59	123	323	123	59
	32	54	114	296	114	54

		WIDTH				
		35	30	20	30	35
$\beta=20^\circ$		35	30	20	30	35
HEIGHT	32	44	93	212	93	44
	32	68	143	328	143	68
	32	92	192	443	192	92
	32	97	205	476	205	97
	32	88	186	427	186	88

		WIDTH				
		35	30	20	30	35
$\beta=20^\circ$		35	30	20	30	35
HEIGHT	32	27	56	148	56	27
	32	41	86	229	86	41
	32	55	115	310	115	55
	32	58	123	333	123	58
	32	53	111	299	111	53



Assembly with shoulder

Assembly with fitting keys

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=25^\circ$	32	42	88	208	88	42
	32	66	138	328	138	66	
	32	89	187	447	187	89	
	32	97	204	<b>489</b>	204	97	
	32	86	181	430	181	86	

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=25^\circ$	32	25	53	146	53	25
	32	39	83	229	83	39	
	32	54	112	313	112	54	
	32	58	122	<b>343</b>	122	58	
	32	52	109	301	109	52	

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=30^\circ$	32	40	83	205	83	40
	32	63	133	328	133	63	
	32	87	182	451	182	87	
	32	97	203	<b>503</b>	203	97	
	32	84	176	433	176	84	

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=30^\circ$	32	24	50	143	50	24
	32	38	80	229	80	38	
	32	52	109	316	109	52	
	32	58	122	<b>352</b>	122	58	
	32	50	106	303	106	50	

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=35^\circ$	32	38	79	201	79	38
	32	61	128	328	128	61	
	32	85	177	455	177	85	
	32	96	202	<b>517</b>	202	96	
	32	82	171	439	171	82	

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=35^\circ$	32	23	47	141	47	23
	32	37	77	230	77	37	
	32	51	106	318	106	51	
	32	58	121	<b>362</b>	121	58	
	32	49	103	307	103	49	



Assembly with shoulder

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=40^\circ$	32	38	81	198	81	38
	32	64	135	330	135	64	
	32	89	190	461	190	89	
	32	102	218	<b>528</b>	218	102	
	32	85	181	441	181	85	

Assembly with fitting keys

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=40^\circ$	32	24	51	146	51	24
	32	40	85	243	85	40	
	32	56	120	340	120	56	
	32	65	137	<b>389</b>	137	65	
	32	54	114	325	114	54	

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=45^\circ$	32	38	83	195	83	38
	32	66	142	332	142	66	
	32	94	202	468	202	94	
	32	108	233	<b>540</b>	233	108	
	32	88	191	444	191	88	

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=45^\circ$	32	24	52	143	52	24
	32	42	90	244	90	42	
	32	59	128	345	128	59	
	32	68	147	<b>398</b>	147	68	
	32	56	120	327	120	56	

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=50^\circ$	32	39	85	191	85	39
	32	68	149	333	149	68	
	32	98	214	475	214	98	
	32	114	249	<b>551</b>	249	114	
	32	92	200	447	200	92	

		WIDTH					
		35	30	20	30	35	
HEIGHT	$\beta=50^\circ$	32	25	53	141	53	25
	32	43	94	246	94	43	
	32	62	135	350	135	62	
	32	72	157	<b>406</b>	157	72	
	32	58	126	329	126	58	



Assembly with shoulder

		WIDTH				
		35	30	20	30	35
$\beta=55^\circ$		35	30	20	30	35
HEIGHT	32	39	87	188	87	39
	32	71	157	335	157	71
	32	102	227	482	227	102
	32	120	265	558	265	120
	32	95	210	449	210	95

Assembly with fitting keys

		WIDTH				
		35	30	20	30	35
$\beta=55^\circ$		35	30	20	30	35
HEIGHT	32	25	55	160	55	25
	32	45	99	285	99	45
	32	65	143	410	143	65
	32	76	167	475	167	76
	32	60	132	382	132	60

		WIDTH				
		35	30	20	30	35
$\beta=60^\circ$		35	30	20	30	35
HEIGHT	32	40	89	185	89	40
	32	73	164	337	164	73
	32	107	239	489	239	107
	32	125	281	565	281	125
	32	98	219	452	219	98

		WIDTH				
		35	30	20	30	35
$\beta=60^\circ$		35	30	20	30	35
HEIGHT	32	25	56	157	56	25
	32	46	103	287	103	46
	32	67	151	416	151	67
	32	79	178	480	178	79
	32	62	139	384	139	62

		WIDTH				
		35	30	20	30	35
$\beta=65^\circ$		35	30	20	30	35
HEIGHT	32	40	91	182	91	40
	32	76	171	339	171	76
	32	111	251	496	251	111
	32	131	297	571	297	131
	32	101	229	448	229	101

		WIDTH				
		35	30	20	30	35
$\beta=65^\circ$		35	30	20	30	35
HEIGHT	32	27	60	169	60	27
	32	50	114	315	114	50
	32	74	167	461	167	74
	32	88	198	531	198	88
	32	68	153	417	153	68



Assembly with shoulder

		WIDTH				
		25	20	20	20	25
$\beta=70^\circ$		25	20	20	20	25
HEIGHT	32	41	93	178	93	41
	32	78	178	341	178	78
	32	115	263	499	263	115
	32	137	313	578	313	137
	32	105	239	438	239	105

Assembly with fitting keys

		WIDTH				
		25	20	20	20	25
$\beta=70^\circ$		25	20	20	20	25
HEIGHT	32	27	62	178	62	27
	32	52	119	341	119	52
	32	77	176	499	176	77
	32	91	209	578	209	91
	32	70	159	438	159	70

		WIDTH				
		25	20	20	20	25
$\beta=75^\circ$		25	20	20	20	25
HEIGHT	32	41	95	175	95	41
	32	80	185	343	185	80
	32	120	276	501	276	120
	32	143	329	584	329	143
	32	108	248	427	248	108

		WIDTH				
		25	20	20	20	25
$\beta=75^\circ$		25	20	20	20	25
HEIGHT	32	27	63	175	63	27
	32	54	123	343	123	54
	32	80	184	501	184	80
	32	95	219	584	219	95
	32	72	166	427	166	72