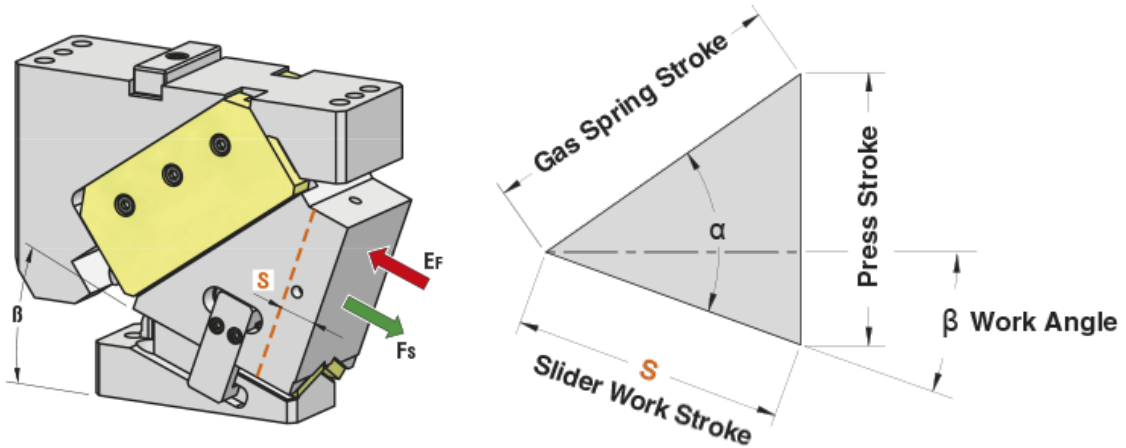




1. CAM DIAGRAM



OMCR CODE	Work Angle β	Slider Work Stroke S (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)	$\alpha - \beta$	α
CHV110.00	0°	30,85	36,77	48	50°	50°
CHV110.05	5°	34,07	36,91	48	45°	50°
CHV110.10	10°	34,46	39,93	48	45°	55°
CHV110.15	15°	38,07	40,71	48	40°	55°
CHV110.20	20°	41,84	41,84	48	35°	55°
CHV110.25	25°	43,38	45,87	48	35°	60°
CHV110.30	30°	48,00	48,00	48	30°	60°
CHV110.35	35°	50,75	53,11	48	30°	65°
CHV110.40	40°	56,79	56,79	48	25°	65°
CHV110.45	45°	61,52	63,79	48	25°	70°
CHV110.50	50°	48,24	48,24	33	20°	70°
CHV110.55	55°	54,06	55,57	33	20°	75°
CHV110.60	60°	63,75	63,75	33	15°	75°
CHV110.65	65°	75,42	76,90	33	15°	80°
CHV110.70	70°	95,02	95,02	33	10°	80°
CHV110.75	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				
		25	20	20	20	25
$\beta=0^\circ$		25	20	20	20	25
HEIGHT	32	59	95	226	95	59
	32	76	123	292	123	76
	32	93	150	357	150	93
	32	85	137	326	137	85
	32	76	124	294	124	76

Assembly with fitting keys

		WIDTH				
		25	20	20	20	25
$\beta=0^\circ$		25	20	20	20	25
HEIGHT	32	35	57	158	57	35
	32	45	74	204	74	45
	32	56	90	250	90	56
	32	51	82	228	82	51
	32	46	74	206	74	46

		WIDTH				
		25	20	20	20	25
$\beta=5^\circ$		25	20	20	20	25
HEIGHT	32	55	92	225	92	55
	32	74	123	305	123	74
	32	92	155	366	155	92
	32	82	137	334	137	82
	32	72	120	294	120	72

		WIDTH				
		25	20	20	20	25
$\beta=5^\circ$		25	20	20	20	25
HEIGHT	32	33	55	158	55	33
	32	44	74	214	74	44
	32	55	93	256	93	55
	32	49	82	234	82	49
	32	43	72	206	72	43

		WIDTH				
		25	20	20	20	25
$\beta=10^\circ$		25	20	20	20	25
HEIGHT	32	52	88	224	88	52
	32	72	124	316	124	72
	32	91	159	369	159	91
	32	79	138	337	138	79
	32	68	116	294	116	68

		WIDTH				
		25	20	20	20	25
$\beta=10^\circ$		25	20	20	20	25
HEIGHT	32	31	53	157	53	31
	32	43	74	221	74	43
	32	55	96	258	96	55
	32	48	83	236	83	48
	32	41	69	206	69	41



Assembly with shoulder

		WIDTH				
		25	20	20	20	25
$\beta=15^\circ$		25	20	20	20	25
HEIGHT	32	48	85	223	85	48
	32	69	125	322	125	69
	32	91	164	372	164	91
	32	77	138	340	138	77
	32	63	112	293	112	63

Assembly with fitting keys

		WIDTH				
		25	20	20	20	25
$\beta=15^\circ$		25	20	20	20	25
HEIGHT	32	29	51	156	51	29
	32	42	75	225	75	42
	32	54	98	261	98	54
	32	46	83	238	83	46
	32	38	67	205	67	38

		WIDTH				
		25	20	20	20	25
$\beta=20^\circ$		25	20	20	20	25
HEIGHT	32	45	82	222	82	45
	32	67	125	328	125	67
	32	90	168	375	168	90
	32	74	138	343	138	74
	32	59	108	293	108	59

		WIDTH				
		25	20	20	20	25
$\beta=20^\circ$		25	20	20	20	25
HEIGHT	32	27	49	155	49	27
	32	40	75	230	75	40
	32	54	101	263	101	54
	32	45	83	240	83	45
	32	35	65	205	65	35

		WIDTH				
		25	20	20	20	25
$\beta=25^\circ$		25	20	20	20	25
HEIGHT	32	41	78	221	78	41
	32	65	126	334	126	65
	32	89	173	378	173	89
	32	72	138	345	138	72
	32	55	104	293	104	55

		WIDTH				
		25	20	20	20	25
$\beta=25^\circ$		25	20	20	20	25
HEIGHT	32	25	47	155	47	25
	32	39	75	234	75	39
	32	53	104	265	104	53
	32	43	83	242	83	43
	32	33	62	205	62	33



Assembly with shoulder

		WIDTH				
		25	20	20	20	25
$\beta=30^\circ$		25	20	20	20	25
HEIGHT	32	38	75	220	75	38
	32	63	126	340	126	63
	32	88	177	381	177	88
	32	69	139	348	139	69
	32	50	100	293	100	50

Assembly with fitting keys

		WIDTH				
		25	20	20	20	25
$\beta=30^\circ$		25	20	20	20	25
HEIGHT	32	23	45	154	45	23
	32	38	76	238	76	38
	32	53	106	267	106	53
	32	42	83	244	83	42
	32	30	60	205	60	30

		WIDTH				
		25	20	20	20	25
$\beta=35^\circ$		25	20	20	20	25
HEIGHT	32	35	72	219	72	35
	32	61	127	346	127	61
	32	87	182	384	182	87
	32	67	139	351	139	67
	32	46	96	293	96	46

		WIDTH				
		25	20	20	20	25
$\beta=35^\circ$		25	20	20	20	25
HEIGHT	32	21	43	153	43	21
	32	37	76	242	76	37
	32	52	109	269	109	52
	32	40	83	246	83	40
	32	28	58	205	58	28

		WIDTH				
		25	20	20	20	25
$\beta=40^\circ$		25	20	20	20	25
HEIGHT	32	34	72	226	72	34
	32	60	126	344	126	60
	32	86	181	387	181	86
	32	65	136	352	136	65
	32	44	91	283	91	44

		WIDTH				
		25	20	20	20	25
$\beta=40^\circ$		25	20	20	20	25
HEIGHT	32	22	46	166	46	22
	32	38	80	253	80	38
	32	54	114	285	114	54
	32	41	86	259	86	41
	32	28	58	209	58	28



Assembly with shoulder

		WIDTH				
		25	20	20	20	25
$\beta=45^\circ$						
HEIGHT	32	34	72	232	72	34
	32	59	126	342	126	59
	32	85	180	390	180	85
	32	63	133	353	133	63
	32	41	87	274	87	41

Assembly with fitting keys

		WIDTH				
		25	20	20	20	25
$\beta=45^\circ$						
HEIGHT	32	22	46	171	46	22
	32	38	80	252	80	38
	32	54	114	287	114	54
	32	40	84	260	84	40
	32	26	55	202	55	26

		WIDTH				
		25	20	20	20	25
$\beta=50^\circ$						
HEIGHT	32	34	72	239	72	34
	32	59	126	340	126	59
	32	84	179	393	179	84
	32	61	130	354	130	61
	32	39	82	264	82	39

		WIDTH				
		25	20	20	20	25
$\beta=50^\circ$						
HEIGHT	32	21	46	176	46	21
	32	37	79	251	79	37
	32	53	113	289	113	53
	32	39	82	261	82	39
	32	24	52	195	52	24

		WIDTH				
		25	20	20	20	25
$\beta=55^\circ$						
HEIGHT	32	34	73	245	73	34
	32	58	125	338	125	58
	32	82	178	396	178	82
	32	59	128	356	128	59
	32	36	77	255	77	36

		WIDTH				
		25	20	20	20	25
$\beta=55^\circ$						
HEIGHT	32	21	46	209	46	21
	32	37	79	288	79	37
	32	52	112	336	112	52
	32	37	81	302	81	37
	32	23	49	217	49	23



Assembly with shoulder

		WIDTH				
		25	20	20	20	25
$\beta=60^\circ$		25	20	20	20	25
HEIGHT	32	33	73	252	73	33
	32	57	125	336	125	57
	32	81	177	399	177	81
	32	57	125	357	125	57
	32	34	73	246	73	34

Assembly with fitting keys

		WIDTH				
		25	20	20	20	25
$\beta=60^\circ$		25	20	20	20	25
HEIGHT	32	21	46	214	46	21
	32	36	79	286	79	36
	32	51	112	339	112	51
	32	36	79	303	79	36
	32	21	46	209	46	21

		WIDTH				
		25	20	20	20	25
$\beta=65^\circ$		25	20	20	20	25
HEIGHT	32	33	73	259	73	33
	32	56	124	335	124	56
	32	80	176	402	176	80
	32	55	122	358	122	55
	32	31	68	236	68	31

		WIDTH				
		25	20	20	20	25
$\beta=65^\circ$		25	20	20	20	25
HEIGHT	32	22	49	240	49	22
	32	38	83	311	83	38
	32	53	117	373	117	53
	32	37	81	333	81	37
	32	21	45	220	45	21

		WIDTH				
		25	20	20	20	25
$\beta=70^\circ$		25	20	20	20	25
HEIGHT	32	33	73	261	73	33
	32	56	124	333	124	56
	32	78	174	405	174	78
	32	54	119	359	119	54
	32	29	64	227	64	29

		WIDTH				
		25	20	20	20	25
$\beta=70^\circ$		25	20	20	20	25
HEIGHT	32	22	49	261	49	22
	32	37	83	333	83	37
	32	52	116	405	116	52
	32	36	79	359	79	36
	32	19	42	227	42	19



Assembly with shoulder

		WIDTH				
		25	20	20	20	25
$\beta=75^\circ$						
HEIGHT	32	33	74	255	74	33
	32	55	123	331	123	55
	32	77	173	407	173	77
	32	52	116	360	116	52
	32	26	59	218	59	26

Assembly with fitting keys

		WIDTH				
		25	20	20	20	25
$\beta=75^\circ$						
HEIGHT	32	22	49	255	49	22
	32	37	82	331	82	37
	32	51	116	407	116	51
	32	34	77	360	77	34
	32	17	39	218	39	17