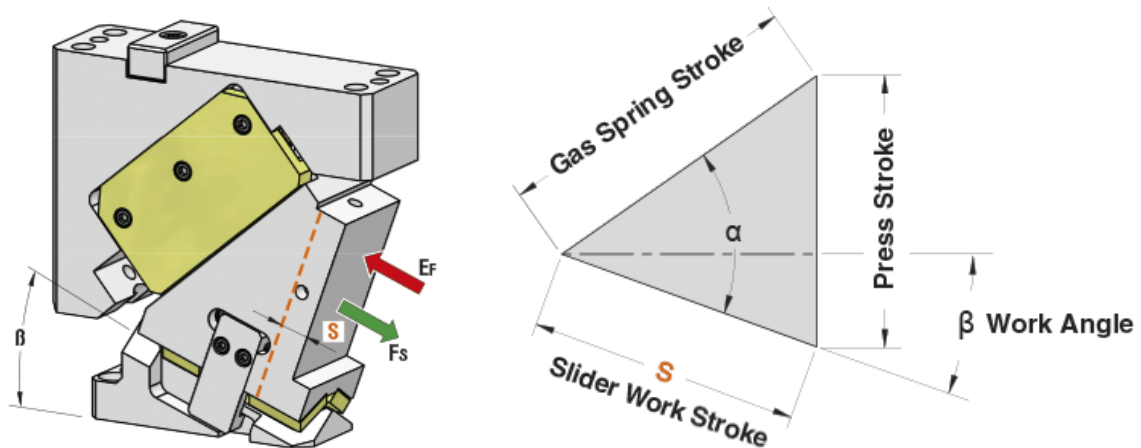


## 1. CAM DIAGRAM



OMCR CODE	Work Angle $\beta$	Slider Work Stroke S (mm)	Press Stroke (mm)	Gas Spring Stroke (mm)	$\alpha - \beta$	$\alpha$
CHV060.00	0°	19,28	22,98	30	50°	50°
CHV060.05	5°	21,29	23,07	30	45°	50°
CHV060.10	10°	21,54	24,95	30	45°	55°
CHV060.15	15°	23,79	25,44	30	40°	55°
CHV060.20	20°	24,46	27,65	30	40°	60°
CHV060.25	25°	27,12	28,67	30	35°	60°
CHV060.30	30°	30,00	30,00	30	30°	60°
CHV060.35	35°	31,72	33,19	30	30°	65°
CHV060.40	40°	35,49	35,49	30	25°	65°
CHV060.45	45°	38,45	39,87	30	25°	70°
CHV060.50	50°	43,86	43,86	30	20°	70°
CHV060.55	55°	49,15	50,52	30	20°	75°
CHV060.60	60°	57,96	57,96	30	15°	75°
CHV060.65	65°	68,57	69,91	30	15°	80°
CHV060.70	70°	70,60	72,82	25	15°	85°
CHV060.75	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

		WIDTH		
		20	20	20
$\beta=0^\circ$		20	20	20
HEIGHT	20	21	82	21
	20	28	109	28
	20	34	<b>136</b>	34
	20	27	109	27
	20	21	76	21

### Assembly with fitting keys

		WIDTH		
		20	20	20
$\beta=0^\circ$		20	20	20
HEIGHT	20	12	58	12
	20	17	77	17
	20	21	<b>96</b>	21
	20	16	76	16
	20	12	53	12

		WIDTH		
		20	20	20
$\beta=5^\circ$		20	20	20
HEIGHT	20	23	84	23
	20	30	111	30
	20	37	<b>137</b>	37
	20	30	110	30
	20	23	83	23

		WIDTH		
		20	20	20
$\beta=5^\circ$		20	20	20
HEIGHT	20	14	59	14
	20	18	77	18
	20	22	<b>96</b>	22
	20	18	77	18
	20	14	58	14

		WIDTH		
		20	20	20
$\beta=10^\circ$		20	20	20
HEIGHT	20	25	85	25
	20	32	112	32
	20	40	<b>138</b>	40
	20	32	111	32
	20	25	84	25

		WIDTH		
		20	20	20
$\beta=10^\circ$		20	20	20
HEIGHT	20	15	60	15
	20	19	78	19
	20	24	<b>97</b>	24
	20	19	78	19
	20	15	59	15



**Assembly with shoulder**

**Assembly with fitting keys**

		WIDTH		
		20	20	20
$\beta=15^\circ$		20	20	20
HEIGHT	20	27	87	27
	20	35	113	35
	20	43	<b>139</b>	43
	20	35	113	35
	20	27	85	27

		WIDTH		
		20	20	20
$\beta=15^\circ$		20	20	20
HEIGHT	20	16	61	16
	20	21	79	21
	20	26	<b>98</b>	26
	20	21	79	21
	20	16	60	16

		WIDTH		
		20	20	20
$\beta=20^\circ$		20	20	20
HEIGHT	20	29	88	29
	20	37	114	37
	20	46	<b>140</b>	46
	20	37	114	37
	20	29	87	29

		WIDTH		
		20	20	20
$\beta=20^\circ$		20	20	20
HEIGHT	20	17	62	17
	20	22	80	22
	20	27	<b>98</b>	27
	20	22	80	22
	20	17	61	17

		WIDTH		
		20	20	20
$25^\circ$		20	20	20
HEIGHT	20	31	90	31
	20	40	116	40
	20	49	<b>141</b>	49
	20	40	115	40
	20	31	88	31

		WIDTH		
		20	20	20
$25^\circ$		20	20	20
HEIGHT	20	19	63	19
	20	24	81	24
	20	29	<b>99</b>	29
	20	24	80	24
	20	18	61	18

		WIDTH		
		20	20	20
$\beta=30^\circ$		20	20	20
HEIGHT	20	33	91	33
	20	42	117	42
	20	52	<b>142</b>	52
	20	42	116	42
	20	33	89	33

		WIDTH		
		20	20	20
$\beta=30^\circ$		20	20	20
HEIGHT	20	20	64	20
	20	25	82	25
	20	31	<b>100</b>	31
	20	25	81	25
	20	20	62	20



**Assembly with shoulder**

**Assembly with fitting keys**

		WIDTH		
		20	20	20
$\beta=35^\circ$		20	20	20
HEIGHT	20	35	93	35
	20	45	118	45
	20	54	<b>143</b>	54
	20	45	117	45
	20	35	91	35

		WIDTH		
		20	20	20
$\beta=35^\circ$		20	20	20
HEIGHT	20	21	65	21
	20	27	83	27
	20	33	<b>100</b>	33
	20	27	82	27
	20	21	64	21

		WIDTH		
		20	20	20
$\beta=40^\circ$		20	20	20
HEIGHT	20	34	89	34
	20	45	116	45
	20	56	<b>143</b>	56
	20	46	117	46
	20	35	91	35

		WIDTH		
		20	20	20
$\beta=40^\circ$		20	20	20
HEIGHT	20	22	65	22
	20	28	85	28
	20	35	<b>105</b>	35
	20	29	86	29
	20	22	67	22

		WIDTH		
		20	20	20
$\beta=45^\circ$		20	20	20
HEIGHT	20	33	84	33
	20	45	113	45
	20	57	<b>143</b>	57
	20	47	117	47
	20	36	90	36

		WIDTH		
		20	20	20
$\beta=45^\circ$		20	20	20
HEIGHT	20	21	62	21
	20	28	84	28
	20	36	<b>105</b>	36
	20	29	86	29
	20	23	67	23



**Assembly with shoulder**

**Assembly with fitting keys**

		WIDTH		
		20	20	20
$\beta=50^\circ$		20	20	20
HEIGHT	20	32	80	32
	20	45	111	45
	20	58	<b>142</b>	58
	20	48	116	48
	20	37	90	37

		WIDTH		
		20	20	20
$\beta=50^\circ$		20	20	20
HEIGHT	20	20	59	20
	20	29	82	29
	20	37	<b>105</b>	37
	20	30	86	30
	20	23	66	23

		WIDTH		
		20	20	20
$\beta=55^\circ$		20	20	20
HEIGHT	20	31	75	31
	20	45	109	45
	20	60	<b>142</b>	60
	20	49	116	49
	20	37	90	37

		WIDTH		
		20	20	20
$\beta=55^\circ$		20	20	20
HEIGHT	20	20	64	20
	20	29	92	29
	20	38	<b>121</b>	38
	20	31	98	31
	20	24	76	24

		WIDTH		
		20	20	20
$\beta=60^\circ$		20	20	20
HEIGHT	20	30	71	30
	20	45	106	45
	20	61	<b>142</b>	61
	20	50	115	50
	20	38	89	38

		WIDTH		
		20	20	20
$\beta=60^\circ$		20	20	20
HEIGHT	20	19	60	19
	20	29	91	29
	20	38	<b>121</b>	38
	20	31	98	31
	20	24	76	24



Assembly with shoulder

Assembly with fitting keys

		WIDTH		
		20	20	20
$\beta=65^\circ$		20	20	20
HEIGHT	20	29	67	29
	20	45	104	45
	20	62	<b>142</b>	62
	20	51	115	51
	20	39	89	39

		WIDTH		
		20	20	20
$\beta=65^\circ$		20	20	20
HEIGHT	20	19	62	19
	20	30	97	30
	20	41	<b>132</b>	41
	20	34	107	34
	20	26	82	26

		WIDTH		
		20	20	20
$\beta=70^\circ$		20	20	20
HEIGHT	20	28	62	28
	20	46	102	46
	20	64	<b>141</b>	64
	20	52	115	52
	20	40	88	40

		WIDTH		
		20	20	20
$\beta=70^\circ$		20	20	20
HEIGHT	20	18	62	18
	20	30	102	30
	20	42	<b>141</b>	42
	20	34	115	34
	20	26	88	26

		WIDTH		
		20	20	20
$\beta=75^\circ$		20	20	20
HEIGHT	20	27	58	27
	20	46	100	46
	20	65	<b>141</b>	65
	20	53	114	53
	20	40	88	40

		WIDTH		
		20	20	20
$\beta=75^\circ$		20	20	20
HEIGHT	20	18	58	18
	20	30	100	30
	20	43	<b>141</b>	43
	20	35	114	35
	20	27	88	27