







# Aluminium cylinders - hydraulic return

#### **New range**

This completely new range of double-acting aluminium cylinders is produced from 7075-T6 black anodised aluminium. We offer a total of 24 models with different capacities and stroke lengths. The choice is yours.

## **Unique Holmatro quality**

All of our double-acting aluminium cylinders are fitted with the unique *Duo Power Ring concept* – a combination of a superior seal and an extremely strong composite bearing. The seal produces an outstanding static and dynamic sealing effect. The composite bearings prevent metal-to-metal contact. They offer resistance to lateral loads to a maximum of 10%. This unique combination ensures a longer life-span, which means that you profit from a longer service period.

The *XL Saddle* optimally protects the plunger of the cylinder. This saddle also ensures that the load is guided as effectively as possible. This limits undesired eccentric loads.



### All benefits summarized

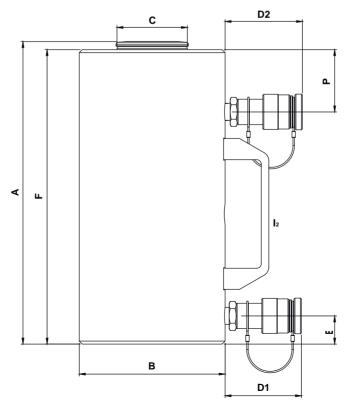
- Lighter cylinders are more handy and easy to work with better for the welfare of your employees. Aluminium cylinders are more than 50% lighter than steel cylinders.
- All cylinders meet the stringent quality requirements that Holmatro enforces for its products.
- A choice of more than 24 models with different capacities and lengths of travel.
- Almost all cylinders have a handle.













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model		HAC 30 H 5	HAC 30 H 10	HAC 30 H 15	HAC 30 H 20	HAC 30 H 25	HAC 30 H 30	HAC 50 H 5	HAC 50 H 10
art no		100.122.086	100.122.085	100.122.080	100.122.079	100.122.103	100.122.060	100.122.095	100.122.108
working pressure	bar/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage	t	30	30	30	30	30	30	50	50
stroke length	mm	50	100	150	200	250	300	50	100
closed height	mm	197	247	297	347	397	447	201	251
capacity	kN/t	318.1 / 32.4	318.1 / 32.4	318.1 / 32.4	318.1 / 32.4	318.1 / 32.4	318.1 / 32.4	510.4 / 52.0	510.4 / 52.0
oil content*	cm <sup>3</sup>	221 / 55	442 / 110	663 / 165	884 / 220	1105 / 275	1325 / 330	354 / 162	709 / 324
effective pressure area*	cm <sup>2</sup>	44.2 / 11	44.2 / 11	44.2 / 11	44.2 / 11	44.2 / 11	44.2 / 11	70.9 / 32.4	70.9 / 32.4
weight	kg	6.9	8.5	10.2	11.6	13.2	14.7	9.5	11.5
maintenance set	art no	100.013.168	100.013.168	100.013.168	100.013.168	100.013.168	100.013.168	100.013.169	100.013.169
recommended pump	model	HTW 1800 B							
pressure gauge	model	A 510	A 503	A 503					
Dimensions									
A	mm	197	247	297	347	397	447	201	251
В	mm	125	125	125	125	125	125	145	145
C	mm	65	65	65	65	65	65	70	70
D1 / D2	mm	76 / 76	76 / 76	76 / 76	76 / 76	76 / 76	76 / 76	76 / 76	76 / 76
E	mm	28	28	28	28	28	28	28	28
F	mm	191.1	241.5	291.5	341.5	391.5	441.5	193	243
P	mm	72	72	72	72	72	72	72	72
12	mm	-	-	12	12	12	12	-	12

model		HAC 50 H 15	HAC 50 H 20	HAC 50 H 25	HAC 50 H 30	HAC 100 H 5	HAC 100 H 10	HAC 100 H 15	HAC 100 H 20
art no		100.122.097	100.122.098	100.122.099	100.122.100	100.122.094	100.122.109	100.122.107	100.122.088
working pressure	bar/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage	t	50	50	50	50	100	100	100	100
stroke length	mm	150	200	250	300	50	100	150	200
closed height	mm	301	351	401	451	246	296	346	396
capacity	kN/t	510.4 / 52.0	510.4 / 52.0	510.4 / 52.0	510.4 / 52.0	1030.6 / 105.1	1030.6 / 105.1	1030.6 / 105.1	1030.6 / 105.1
oil content*	cm <sup>3</sup>	1063 / 486	1418 / 648	1772 / 810	2127 / 972	716 / 283	1431 / 565	2147 / 848	2863 / 1131
effective pressure area*	cm <sup>2</sup>	70.9 / 32.4	70.9 / 32.4	70.9 / 32.4	70.9 / 32.4	143.1 / 56.6	143.1 / 56.6	143.1 / 56.6	143.1 / 56.6
weight	kg	13.3	15.4	17.3	19.2	19.7	23	26.8	29.9
maintenance set	art no	100.013.169	100.013.169	100.013.169	100.013.169	100.013.170	100.013.170	100.013.170	100.013.170
recommended pump	model	HTW 1800 B	HTW 1800 B	HTW 1800 B	HTW 2800 B				
pressure gauge	model	A 503	A 503	A 503	A 503	A 504	A 504	A 504	A 504
Dimensions									
A	mm	301	351	401	401	451	246	296	346
В	mm	145	145	145	145	195	195	195	195
С	mm	70	70	70	70	105	105	105	105
D1 / D2	mm	76 / 76	76 / 76	76 / 76	76 / 76	76 / 76	76 / 76	76 / 76	76 / 76
E	mm	28	28	28	28	35	35	35	35
F	mm	293	343	393	443	235	285	335	385
P	mm	72	72	72	72	72	72	72	72
12	mm	12	12	12	12	12	12	12	I2(2x)

model		HAC 100 H 25	HAC 100 H 30	HAC 150 H 5	HAC 150 H 10	HAC 150 H 15	HAC 150 H 20	HAC 150 H 25	HAC 150 H 30
art no		100.122.089	100.122.090	100.122.075	100.122.074	100.122.073	100.122.070	100.122.069	100.122.064
working pressure bar	r/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage	t	100	100	150	150	150	150	150	150
stroke length	mm	250	300	50	100	150	200	250	300
closed height	mm	446	496	248	298	348	398	448	498
capacity	kN/t	1030.6 / 105.1	1030.6 / 105.1	1539.5 / 156.9	1539.5 / 156.9	1539.5 / 156.9	1539.5 / 156.9	1539.5 / 156.9	1539.5 / 156.9
oil content*	cm <sup>3</sup>	3579 / 1414	4294 / 1696	1069 / 456	2138 / 911	3207 / 1367	4277 / 1822	5346 / 2278	6415 / 2733
effective pressure area*	cm <sup>2</sup>	143.1 / 56.6	143.1 / 56.6	213.8 / 91.1	213.8 / 91.1	213.8 / 91.1	213.8 / 91.1	213.8 / 91.1	213.8 / 91.1
weight	kg	33.2	36.6	27.7	32.3	38	41.5	46.1	50.6
maintenance set	art no	100.013.170	100.013.170	100.013.172	100.013.172	100.013.172	100.013.172	100.013.172	100.013.172
recommended pump r	model	HTW 2800 B	HTW 2800 B	HTW 1800 B	HTW 1800 B	HTW 2800 B	HTW 2800 B	HTW 5800 B	HTW 5800 B
pressure gauge r	model	A 504							
Dimensions									
A	mm	396	446	248	298	348	398	448	498
В	mm	195	195	235	235	235	235	235	235
С	mm	105	105	125	125	125	125	125	125
D1 / D2	mm	76 / 76	76 / 76	76 / 76	76 / 76	76 / 76	76 / 76	76 / 76	76 / 76
E	mm	35	35	35	35	35	35	35	35
F	mm	435	485	240	290	340	390	440	490
Р	mm	72	72	72	72	72	72	72	72
12	mm	I2(2x)	I2(2x)	12(2x)	I2(2x)	12(2x)	12(2x)	12(2x)	I2(2x)

<sup>\* =</sup> press / retract

