

**Industrial** equipment

# Lightweight aluminium cylinders

The easy to carry alternative to steel



A photograph of several white offshore wind turbines in a blue ocean. The turbines are arranged in a line, receding into the distance. The sky is a clear, light blue. In the foreground, the top of a white turbine nacelle is visible, partially obscured by an orange graphic element.

**Holmatro**, established in the Netherlands in 1967, originally traded high-pressure hydraulic equipment for the ship building industry. Today, we design, develop, manufacture and supply high-pressure hydraulic Industrial Equipment, Rescue Equipment and Marine Equipment for specialised industries across the entire globe.

Holmatro industrial products are innovative, high quality and above all effective under the most diverse conditions. With offices in the Netherlands, the USA, China and Poland and an extensive dealer network, we are dedicated to producing high-performance solutions for specific markets and applications.

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## Aluminium cylinders - spring return ( up to 30 ton )



model		HAC 20 S 5	HAC 20 S 10	HAC 20 S 15	HAC 30 S 5	HAC 30 S 10	HAC 30 S 15
article number		100.112.150	100.112.149	100.112.137	100.112.156	100.112.155	100.112.143
<b>tonnage</b>	<b>t</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>30</b>	<b>30</b>	<b>30</b>
<b>stroke length</b>	<b>mm</b>	<b>50</b>	<b>100</b>	<b>150</b>	<b>50</b>	<b>100</b>	<b>150</b>
<b>closed height</b>	<b>mm</b>	<b>164</b>	<b>214</b>	<b>264</b>	<b>182</b>	<b>232</b>	<b>282</b>
<b>weight</b>	<b>kg</b>	<b>3.1</b>	<b>3.9</b>	<b>4.6</b>	<b>4.8</b>	<b>6.0</b>	<b>7.0</b>
capacity	kN / t	204 / 20.8	204 / 20.8	204 / 20.8	301 / 30.7	301 / 30.7	301 / 30.7
oil content	cm <sup>3</sup>	142	283	424	209	418	629
effective pressure area	cm <sup>2</sup>	28.3	28.3	28.3	41.9	41.9	41.9
maintenance set	art.no.	100.013.099	100.013.099	100.013.099	100.013.106	100.013.106	100.013.106
recommended pump	model	HTS 550 A	HTW 1800 B				
pressure gauge	model	A 501					

## Aluminium cylinders - dimensions



model		HAC 20 S 5	HAC 20 S 10	HAC 20 S 15	HAC 30 S 5	HAC 30 S 10	HAC 30 S 15
A	mm	164	214	264	182	232	282
B	mm	90	90	90	108	108	108
C	mm	50	50	50	60	60	60
D	mm	75	75	75	73	73	73
E	mm	26	26	26	35	35	35
F	mm	157	207	257	177	227	277
I <sub>1</sub> / I <sub>2</sub>	mm	-	I <sub>2</sub>	I <sub>2</sub>	-	I <sub>2</sub>	I <sub>2</sub>



## Features / Benefits



- up to 50% lighter than steel models
  - easy to carry and position
- handles on nearly all models
- corrosion resistant
- composite bearings
  - prevent metal to metal contact
  - increase cylinder life
  - resist side-loads up to 10%
- can be used in all positions
- flat saddle
  - prevents damaging of plunger
  - easy replaceable by tilting saddle

HAC 20 S 5



HAC 30 S 10

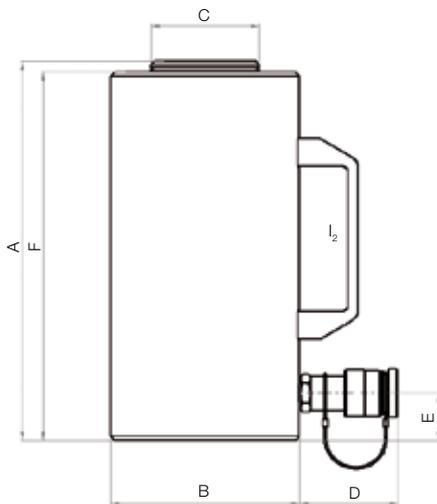


## Aluminium cylinders - spring return (> 30 ton) ↓

model		HAC 50 S 5	HAC 50 S 10	HAC 50 S 15	HAC 100 S 5	HAC 100 S 10	HAC 100 S 15
article number		100.112.154	100.112.153	100.112.144	100.112.152	100.112.151	100.112.142
<b>tonnage</b>	<b>t</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>100</b>
<b>stroke length</b>	<b>mm</b>	<b>50</b>	<b>100</b>	<b>150</b>	<b>50</b>	<b>100</b>	<b>150</b>
<b>closed height</b>	<b>mm</b>	<b>183</b>	<b>233</b>	<b>283</b>	<b>228</b>	<b>278</b>	<b>328</b>
<b>weight</b>	<b>kg</b>	<b>8.1</b>	<b>9.9</b>	<b>11.06</b>	<b>19.7</b>	<b>23.3</b>	<b>26.9</b>
capacity	kN / t	510 / 52	510 / 52	510 / 52	1031 / 105.2	1031 / 105.2	1031 / 105.2
oil content	cm <sup>3</sup>	355	709	1063	716	1432	2147
effective pressure area	cm <sup>2</sup>	70.9	70.9	70.9	143.1	143.1	143.1
maintenance set	art.no.	100.013.108	100.013.108	100.013.108	100.013.116	100.013.116	100.013.116
recommended pump	model	HTS 550 A	HTW 1800 B	HTW 1800 B	HTW 1800 B	HTW 1800 B	HTW 2800 B
pressure gauge	model	A 501	A 501	A 501	A 501	A 501	A 501

## Aluminium cylinders - dimensions ↓

model		HAC 50 S 5	HAC 50 S 10	HAC 50 S 15	HAC 100 S 5	HAC 100 S 10	HAC 100 S 15
A	mm	183	233	283	228	278	328
B	mm	140	140	140	200	200	200
C	mm	80	80	80	105	105	105
D	mm	73	73	73	73	73	73
E	mm	35	35	35	45	45	45
F	mm	175	225	275	217	267	317
I <sub>1</sub> / I <sub>2</sub>	mm	-	I <sub>2</sub> (2x)				



HAC 50 S 5



HAC 50 S 15



HAC 100 S 15



### **Lightweight aluminium cylinders**

Holmatro puts your lifting application in a new perspective by expanding its aluminium cylinder line. These lightweight cylinders are the perfect tools for jobs that require heavy duty lifting capacities combined with easy handling.

### **Mastering power**

Holmatro products are based on the ground rule that forces can only be applied usefully when controlled effectively. Our aluminium high pressure hydraulic cylinders are available in weights up to 50% lighter than of steel cylinders, but still enable you to master the power you need!

### **Ergonomic solution**

Distinctive tool handles and the lightness of Holmatro aluminium cylinders make them particularly useful on remote sites or on jobs where they have to be carried from one application to the next. They can easily be moved, for example, from lifting, to metal forming and then on to bearing removal. The provided benefit is two-folded: Not only are they easier to handle, using these lightweight cylinders also is a substantial improvement in reducing back and shoulder injuries.



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