

# HYVA CYLINDER

714 05 637



type: UMB 149-3-2230-K265-50-3/4"-HC

tipping weight: 25-31 ton

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Stage diameters <b>149</b> <b>129</b> <b>110</b>	front view cylinder		<table border="1"> <tr><td>A</td><td>205</td></tr> <tr><td>ØC</td><td>170</td></tr> <tr><td>G<sup>1</sup></td><td>996</td></tr> <tr><td>I</td><td>731</td></tr> <tr><td>K<sup>1</sup></td><td>265</td></tr> <tr><td>M<sup>1</sup></td><td>106</td></tr> <tr><td>ØP</td><td>110</td></tr> <tr><td>ØQ</td><td>75</td></tr> <tr><td>S</td><td>736</td></tr> <tr><td>ØW</td><td>50</td></tr> <tr><td>X</td><td>45</td></tr> </table>	A	205	ØC	170	G <sup>1</sup>	996	I	731	K <sup>1</sup>	265	M <sup>1</sup>	106	ØP	110	ØQ	75	S	736	ØW	50	X	45
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<sup>1</sup>including 20 mm pull-out [tol. -5; +30 mm]

<sup>2</sup>cylinder is delivered including oil inlet swivel adapter and cup

## specifications

total stroke <sup>1</sup>	2230 mm
dry weight cylinder only	107 kg
total volume	32.1 L
working volume	29.7 L
maximum pressure	220 bar
maximum pump flow	143 l/min
maximum allowable thrust first stage <sup>3</sup>	25.0 ton
oil inlet	3/4" BSP

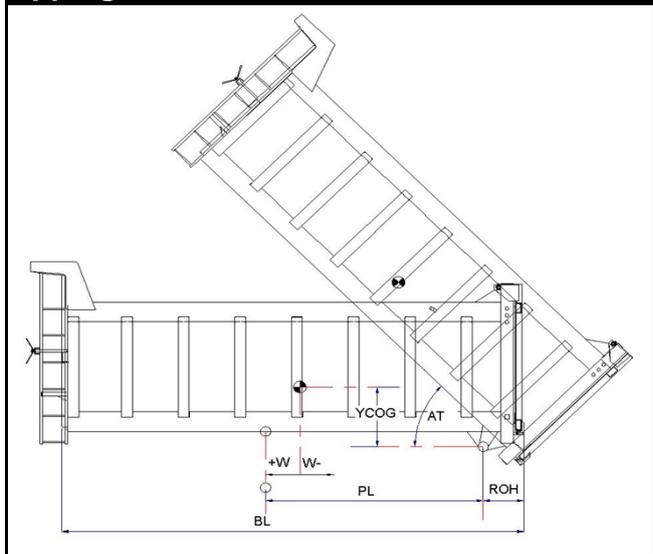
## technical notes

This cylinder is a lifting device only and may not be used as a structural member or be subjected to side load. Sideload and/or poor alignment might result in cylinder leakage. Hyva therefore strongly recommends the use of a cradle, even in instances where the cylinder only tips to the rear or to the side. The cylinder is painted black RAL9005. For suitable hydraulic oils, please refer to data sheet OIL-0011. For details of available brackets and cradles, please refer data sheet 015BRA06.

Detailed calculations can be made using the HYVA Tipper Program, freely available from [tipper.hyva.com](http://tipper.hyva.com).

<sup>3</sup>The cylinder thrust on the first stage (from the HYVA Tipper Program) must not exceed the maximum allowable (see specifications above).

## tipping view



## tipping weight

PL	2910			mm	2570		
YCOG	600			mm	600		
ROH	600			mm	600		
BL	7020	6380	5850	mm	6340	5760	5280
CYL w.r.t. COG (W)	0	320	590	mm	0	290	530
	Tipping weight for full stroke of 46°				Tipping weight for full stroke of 52°		
Tipping weight	25	28	31	ton	25	28	31
	Tipping weight for second last stage, up to 31°				Tipping weight for 2nd last stage, up to 35°		
Tipping weight	25	28	31	ton	25	28	31

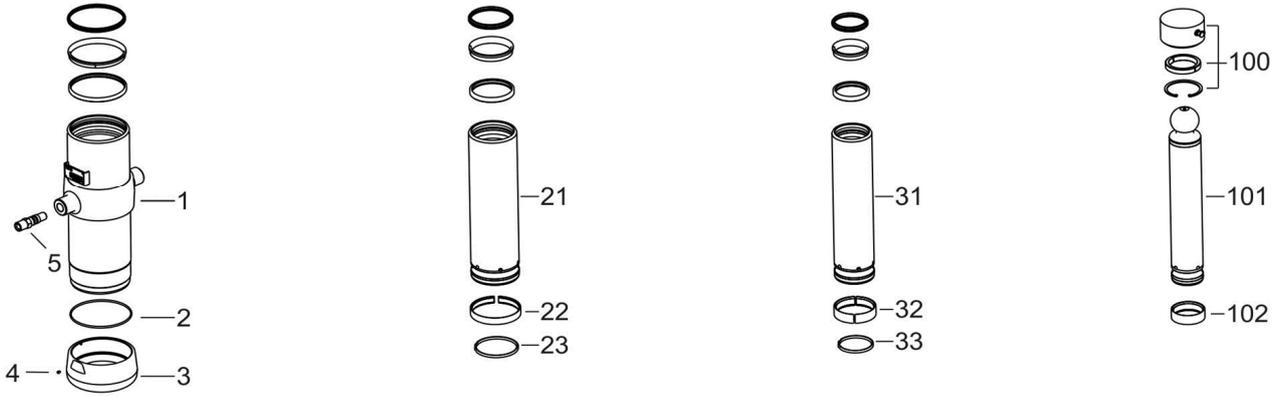
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## Spare part list

Pos	Part no.	Description	Qty.
1	73506950	BASE 169-0862-N0159	1
2	01226709	O-RING 165 X 4 NBR 70 SHORE	1
3	73101040	THREADED BOTTOM UM 169	1
4	01792571	LOCKING SCREW M6X12 INT. HEX. DIN 916	1
5	73103002	OIL INLET ADAPTOR UM 3/4"OT+O-RING	1
21	73605951	STAGE 149-0862-HC	1
22	71807149 K	SLIDER FL 149	1
23	71812149 K	LIFTRING FL 149/HP 150	1
31	73604951	STAGE 129-0862-HC	1
32	71807129 K	SLIDER FL 129/GF 129 (2 X 1/2)	1
33	71812129 K	LIFTRING FL 129/HP 129	1

## Spare part list

Pos	Part no.	Description	Qty.
100	01745103	RETAINER KIT UMB D.75	1
101	73403951	PISTON B 110-0904-HC	1
102	71807110 K	SLIDER FL 110/GF 110 (2 X 1/2)	1

## Seal kit complete

Part no.	Description
719 04 531K	Complete packset: Consists of all packsets with packset grease and o-ring.