

PRODUCT DATA SHEET

CHAIN HOIST 1000KG LV ACCORDING DGUV V54 (D8)

Model number basic hoist	CM-991002
Voltage / Frequency	208V / 60Hz
Speed	16 ft/min
Version	contactor control



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Revision administration

Rev.	Date	File name	Author	Description
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1. General Description

General Description

On the road or fixed installations in studios, halls, theatres and shows – CHAINMASTER chain hoists are worldwide established in the entertainment sector.

Depending on the load case and the combination of CHAINMASTER control systems, extensive projects regarding safety requirements can be fulfilled.

Customized special design for all imaginable cases of application rounds up the world-wide most extensive offer of chain hoists – Made by CHAINMASTER.

The chain hoist with 1000 kg DGUV V54 (D8) is equipped with two independently acting brakes, an operating brake and a safety brake. Both brakes are DC brakes. They operate according to the closed-circuit current principle. In the event of a power failure, the brakes apply automatically so that the load is held safely in any position.

The protective device for overload is implemented with a sliding clutch. In addition, electronic overload and underload monitoring can also be integrated. It is also possible to limit the highest and lowest load position by means of adjustable operating- and emergency limit switches. Optionally, the chain hoist can be equipped with an incremental encoder or absolute encoder, which then enables positioning with millimeter accuracy with the corresponding control.

For the chain hoist a high-strength round steel chain according to EN818-7 with a hook tackle and a lift limiter as well as a textile chain bag is used. Safe chain entry and exit is ensured by a polyamide chain guide plate.

The robust and compact housing made of cast aluminum alloy is finished with a semi-gloss RAL 9005 (black) paint and is optionally available in other RAL colors. The electric chain hoist is controlled by contactor control in the low voltage range as standard. The operating voltage is 208V, 3ph, 60 Hz.

2. Technical Data

2.1. Data Sheet

Chain hoist 1000 kg according DGUV V54 (D8)																															
Features	- completely enclosed aluminum cast housing - black paint finish RAL 9005 – semi gloss (other colors on request) - light and compact design with low- noise running - chain bag made from textile material 2 spring loaded brakes with DC magnet coil - sliding clutch for overload protection - chain guide plate of polyamide - precise chain guide with 5 - pocket chain sprocket wheel - operating coefficient load chain - 5 (static) 1-fall load hook - standard or climbing hoists - AC-contactor control 1m connection cable 2 handles																														
Options/ accessories	- rotating hook suspension - operational limit switches for upper and lower end (Stromag Geared Cam Limit Switches Series 51 / 51DZ) - emergency limit switches for upper and lower end ³ (Stromag Geared Cam Limit Switches Series 51 / 51DZ) - load monitoring - incremental encoder HTL-signals; 11 / 25 / 100 / 200 / 1024 pulses per revolution ³ - absolute encoder multiturn 12/12 Bit resolution ³ - flight cases and storage solutions - manual beam trolley - control systems																														
Technical data	<table> <tr> <td>Model type:</td><td>SK070 / 16</td></tr> <tr> <td>Hoisting speed:</td><td>16 ft/min ¹</td></tr> <tr> <td>Safe working load:</td><td>1000 kg</td></tr> <tr> <td>Number of falls:</td><td>1</td></tr> <tr> <td>Load chain according EN 818-7:</td><td>7 x 22 mm</td></tr> <tr> <td>Suspension type:</td><td>Single hole suspension eye for shackle</td></tr> <tr> <td>Classification of mechanism lifting gear</td><td>2m/ M5</td></tr> <tr> <td>FEM/ ISO:</td><td></td></tr> <tr> <td>Duty cycle - starts per hour:</td><td>ED 40 % - 240 c/h</td></tr> <tr> <td>Mode of operation:</td><td>S3 (according IEC 60034-1)</td></tr> <tr> <td>Noise level:</td><td>74 dBA/ 1 m distance</td></tr> <tr> <td>Motor type:</td><td>K20R 80K4E</td></tr> <tr> <td>Motor speed:</td><td>1680 rpm ¹</td></tr> <tr> <td>Weight (without chain):</td><td>approx. 36 kg ²</td></tr> <tr> <td>Weight of the chain:</td><td>approx. 1.1 kg/m</td></tr> </table>	Model type:	SK070 / 16	Hoisting speed:	16 ft/min ¹	Safe working load:	1000 kg	Number of falls:	1	Load chain according EN 818-7:	7 x 22 mm	Suspension type:	Single hole suspension eye for shackle	Classification of mechanism lifting gear	2m/ M5	FEM/ ISO:		Duty cycle - starts per hour:	ED 40 % - 240 c/h	Mode of operation:	S3 (according IEC 60034-1)	Noise level:	74 dBA/ 1 m distance	Motor type:	K20R 80K4E	Motor speed:	1680 rpm ¹	Weight (without chain):	approx. 36 kg ²	Weight of the chain:	approx. 1.1 kg/m
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¹ this applies to 60 Hz mains frequency, other voltage levels and frequencies on request

² specification in contactor control, without single-hole suspension eye, hook suspension, hook tackle, chain bag

³ chain hoist is equipped with larger cap

3. Dimension Sheet

3.1. Climbing hoist – single hole suspension plate

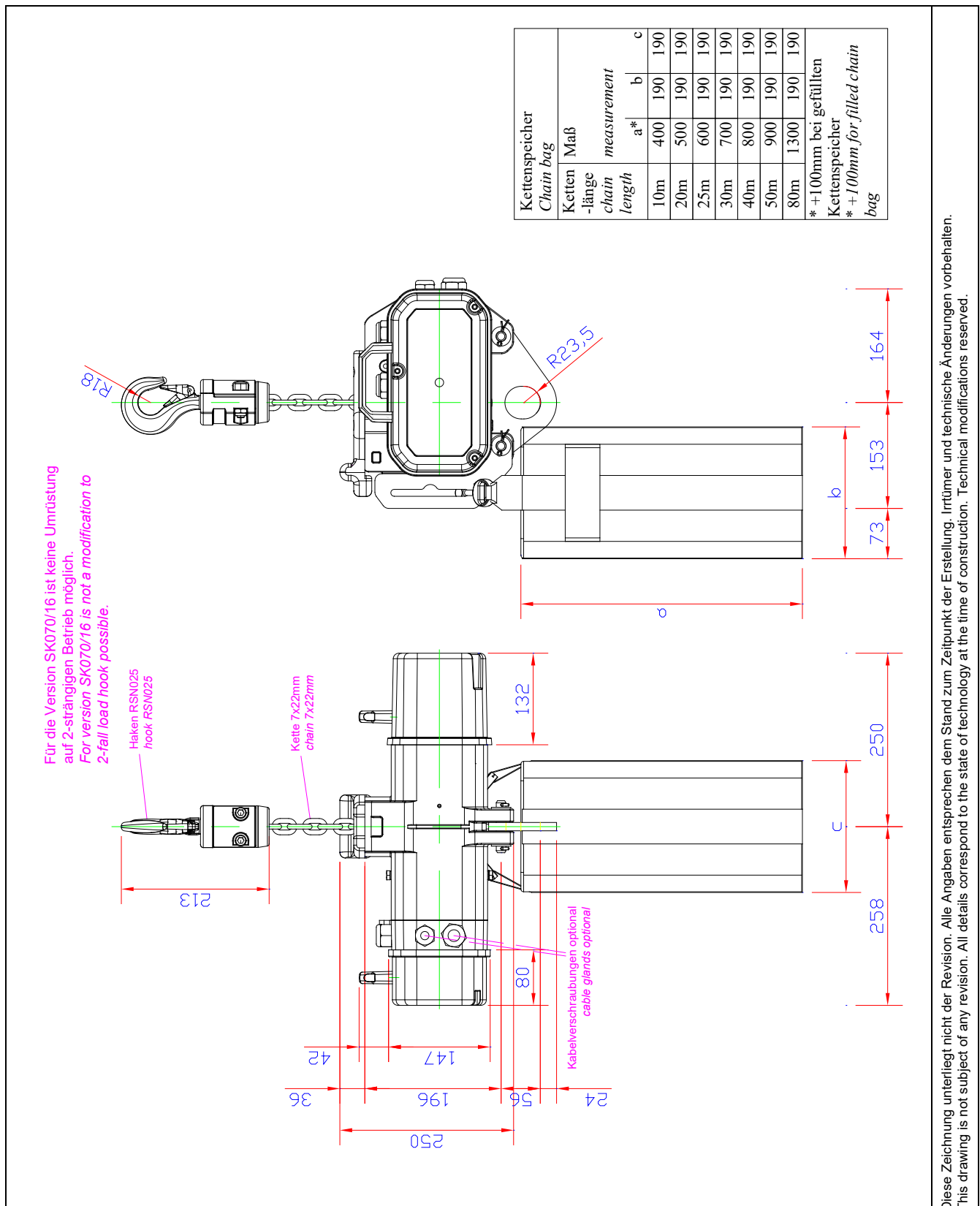
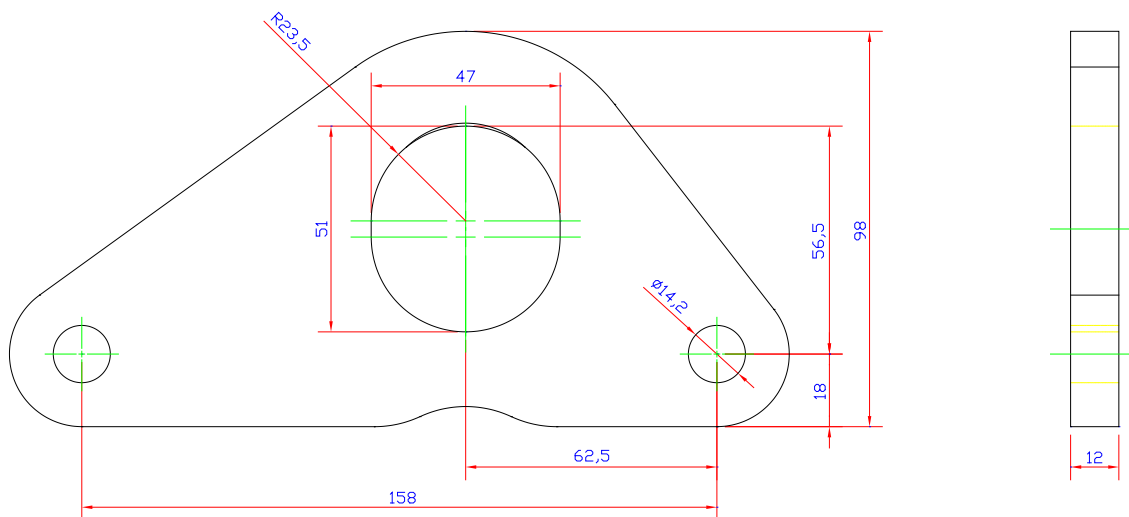


Figure 1 Climbing hoist – single hole suspension plate

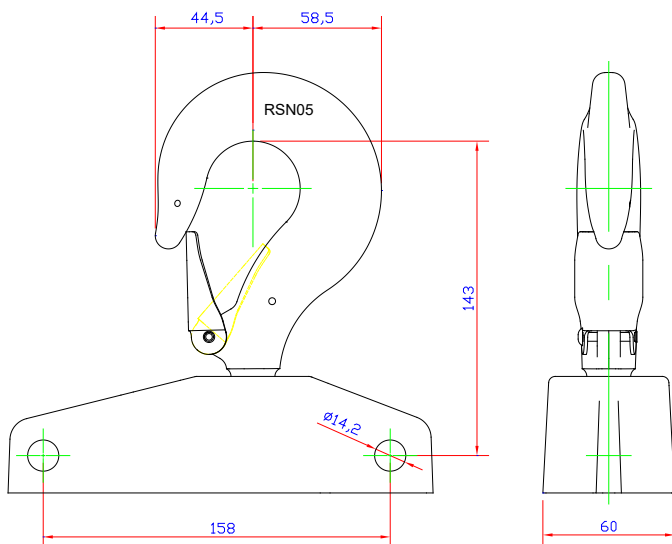
Figure 1 shows version with contactor control

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3.2. Single hole suspension plate & hook suspension

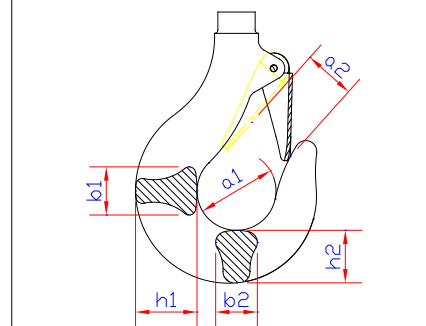


Weight: 1.15kg



Weight: 2.85kg

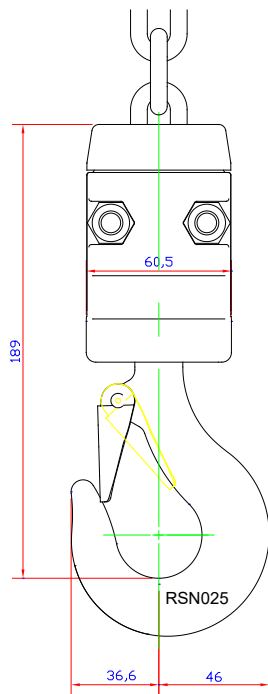
Haken-Nr./ hook-no. DIN 15401	a1	a2	h1	b1	h2	b2
012	30	20	22	19	19	15
025	36	22	28	22	24	19
05	43	28	37	29	31	24
1	50	30	48	38	40	32
2,5	63	42	67	53	58	45
4	71	50	80	63	67	53
6	90	56	100	80	85	67



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This drawing is not subject of any revision. All details correspond to the state of technology at the time of construction. Technical modifications reserved.

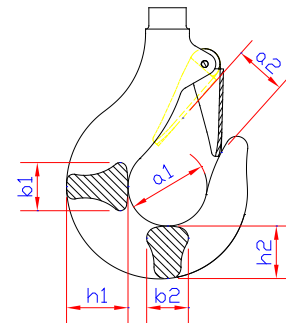
Figure 2 Single hole suspension plate & hook suspension

3.3. Hook tackle



Weight: 1.85kg

Haken-Nr./ hook-no. DIN 15401	a1	a2	h1	b1	h2	b2
012	30	20	22	19	19	15
025	36	22	28	22	24	19
05	43	28	37	29	31	24
1	50	30	48	38	40	32
2,5	63	42	67	53	58	45
4	71	50	80	63	67	53
6	90	56	100	80	85	67



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Figure 3 Hook tackle

[illegible]

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