



STAGEMAKER[®] CONCERT HOISTS

Raising the standard of performance



STAGEMAKER® COMPACT Concert Hoist

The R&M STAGEMAKER® COMPACT concert hoist is designed for handling stage and theatrical equipment; it enables the safe and accurate positioning of speakers, lighting systems, stage sets and sceneries. STAGEMAKER® COMPACT hoists are CSA approved* and CE marked. STAGEMAKER® COMPACT's features and options make it the best choice for a demanding customer; its low weight makes it ideal for touring events; its compact size permits it to fit inside truss structures; its quietness makes it ideal for operation during performances even in theaters. You benefit from our years of manufacturing experience, long term R&D, and product improvement guided by consultation with members of the entertainment industry.



Specifications and Standard Components

- ◆ Class F insulated Hoisting Motor
- ◆ Increased safety with combined load limiter / brake
- ◆ Electromechanical diskbrake
- ◆ Solid-state brake control
- ◆ 360° upper / lower hook rotation
- ◆ Canvas chainbucket
- ◆ Upright and inverted use (SM1, SM 5 and SM 10 models)
- ◆ Pressure cast aluminum body
- ◆ Load wheel with 5 pockets
- ◆ Anti-jam chain guide for precise chain alignment
- ◆ Flexible handgrips for easy transportation
- ◆ Black two-part epoxy paint
- ◆ Power supply 208, 230, or 460V 3ph 60 Hz



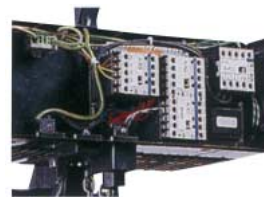
The revolutionary planetary gearbox contributes to the compact hoist design. Grease lubricated precision gearing contributes to an exceptionally low noise level, average dB rating is less than 75 dB.



The heat treated load wheel with 5 full pockets is machined in a single production step. The black load chain is grade 80. The 5 pocket load wheel minimizes chain stress while ensuring smooth operation. A chain guide prevents the chain from jamming, no matter what the position of the hoist.



Folding transport handles facilitate handling. The hoist body is pressure-molded aluminum which reduces weight. Heat sink ribs on the motor body ensure efficient heat dissipation even at 240 starts per hour. The hoist is protected by 80-micron dark epoxy paint.



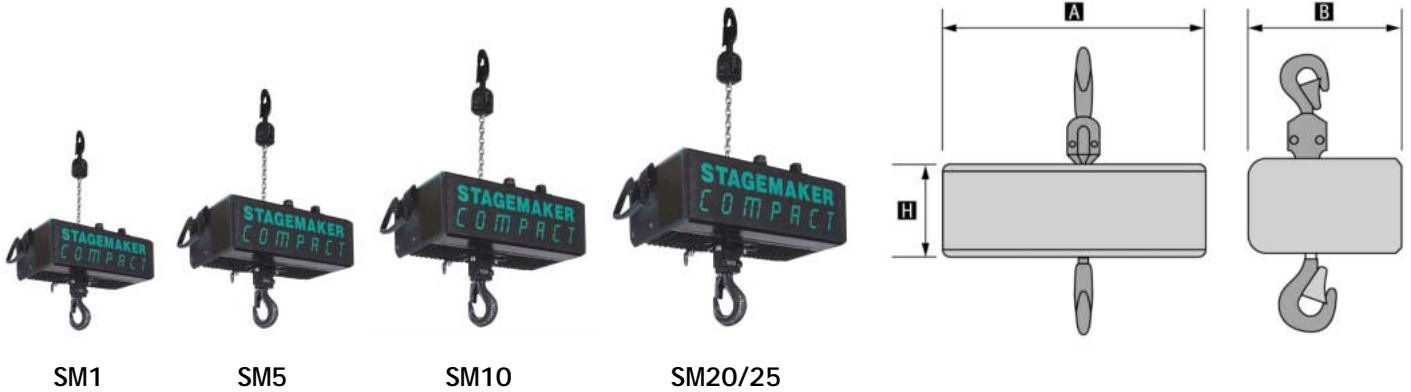
Large integral steel panel encloses all electrical components and offers space for additional options. The panel also provides easy access for maintenance operations. (IP55/NEMA 3R).

Options

- ◆ Built-in encoder
- ◆ Load measuring system
- ◆ Electronic load monitor
- ◆ Pendant control
- ◆ Two speed motors
- ◆ Thermal Protection
- ◆ Variable speed
- ◆ Double brake
- ◆ BGV-C1 (VBG-70) standard
- ◆ Gear limit-switches 2 or 4 steps
- ◆ Low voltage control
- ◆ Compact flightcase for 1 or 2 hoists

* Low voltage control configuration only

STAGEMAKER® COMPACT Concert Hoists



Concert Hoists* - Inverted Models Shown

Capacity		Model	Speed - 60Hz		Falls	Chain Size (mm)	Motor Power - 60Hz		Dimensions (mm/inch)			Weight**	
Kg	Tons		m/min	fpm			kW	Hp	A	B	C	kg	Lbs.
60	1/16	SM1068m2	9.6	32	1	3.1x9.3	0.24	0.33	278/10.8	200/7.8	11/4.3	14	30.8
60	1/16	SM10616m1	19.5	64	1	3.1x9.3	0.24	0.33	278/10.8	200/7.8	11/4.3	14	30.8
125	1/8	SM1128m1	9.6	32	1	3.1x9.3	0.24	0.33	278/10.8	200/7.8	11/4.3	14	30.8
250	1/4	SM5254m2	4.8	16	1	4.8x12.5	1	1.33	401/15.7	247/9.6	135/5.26	23	51
250	1/4	SM5258m2	9.6	32	1	4.8x12.5	1	1.33	401/15.7	247/9.6	135/5.26	23	51
250	1/4	SM52516m1	19.5	64	1	4.8x12.5	1	1.33	401/15.7	247/9.6	135/5.26	23	51
500	1/2	SM5504m1	4.8	16	1	4.8x12.5	1	1.33	401/15.7	247/9.6	135/5.26	23	51
500	1/2	SM5508m1	9.6	32	1	4.8x12.5	1	1.33	401/15.7	247/9.6	135/5.26	23	51
500	1/2	SM105016m1	19.5	64	1	6.8x17.8	2.1	2.8	483/18.9	281/11	175/6.82	47	104
1000	1	SM101004m1	4.8	16	1	6.8x17.8	2.1	2.8	483/18.9	281/11	175/6.82	47	104
1000	1	SM101008m1	9.6	32	1	6.8x17.8	2.1	2.8	483/18.9	281/11	175/6.82	47	104
2000	2	SM102004m1	4.8	16	2	6.8x17.8	2.1	2.8	483/18.9	281/11	175/6.82	47	104

SM16, SM20 and SM25 inverted hoists not yet available.

** Without chain

* All hoists are available with direct and 115 volt low voltage controls

Concert Hoists with Second Motor Brake for Increased Safety (BGV-C1/VBG70 Standard)

Capacity		Model	Speed - 60Hz		Falls	Chain Size (mm)	Motor Power - 60Hz		Dimensions (mm/inch)			Weight**	
Kg	Tons		m/min	fpm			kW	Hp	A	B	C	kg	Lbs.
125	1/8	SM5124m1	4.8	16	1	4.8x12.5	1	1.33	445/17.4	247/9.6	135/5.26	25	52
125	1/8	SM5128m1	9.6	32	1	4.8x12.5	1	1.33	445/17.4	247/9.6	135/5.26	25	52
250	1/4	SM5254m1	4.8	16	1	4.8x12.5	1	1.33	445/17.4	247/9.6	135/5.26	25	52
250	1/4	SM5258m1	9.6	32	1	4.8x12.5	1	1.33	445/17.4	247/9.6	135/5.26	25	52
250	1/4	SM102516m1	19.2	64	1	6.8x17.8	2.10	2.8	580/22.7	281/11	175/6.82	49	105
500	1/2	SM5504m1	4.8	16	2	4.8x12.5	1	1.33	455/17.4	247/9.6	135/5.26	25	52
500	1/2	SM10504m1	4.8	16	1	6.8x17.8	2.10	2.8	580/22.7	281/11	175/6.82	49	105
500	1/2	SM10508m1	9.6	32	1	6.8x17.8	2.10	2.8	580/22.7	281/11	175/6.82	49	105
1000	1	SM101002m1	2.4	8	2	6.8x17.8	2.10	2.8	580/22.7	281/11	175/6.82	49	105
1000	1	SM101004m1	4.8	16	2	6.8x17.8	2.10	2.8	580/22.7	281/11	175/6.82	49	105

SM1, SM16, SM20 and SM25 not yet available in BGV-C1 version.

** Without chain

R&M STAGEMAKER® Controllers



The R&M STAGEMAKER® CONTROLLERS have been developed specifically for the control of R&M STAGEMAKER® concert hoists. The controllers are available with 4 or 8 channels and are built into a compact handcase, 19" rack casing, or vertical flightcase.

The R&M STAGEMAKER® CONTROLLERS permit you to control hoists individually or simultaneously with a single button. There is a pre-selection capability for all units. RM models with remote controls incorporate red and green LED indicators, which indicate the selected hoisting direction.

For larger applications, R&M STAGEMAKER® CONTROLLERS can be interconnected to operate a system of up to 64 hoists. All pre-selected hoists are activated simultaneously through one single RUN button, as a standard. Other configurations are available upon request.

R&M STAGEMAKER® CONTROLLERS utilize UL / CSA components and meet European electrical standards (IEC & EMC). They offer maximum flexibility, durability and safety.

Standard Delivery	Type			
	SC4P	R4P & R8P	F4P & F8P	R8PRM & F8PRM
Type of selection (D: Direct Control, L: Low Voltage Control)	D	D	L	L
Power switching and control in one housing	•	•	•	•
Remote control with toggle switches and LED indicators	—	—	—	•
Main Contactor	•	•	•	•
Mushroom emergency button with interlock	•	•	•	•
Up / Down selector per motor	•	•	•	•
Shortcircuit protection in main and control circuit	•	•	•	•
Thermal protection per group of 4 hoists	—	•	•	•
Combined phase reversal / main switch	—	— / •	•	•
Master-slave connection	•	•	•	•
Fused LED indicators for incoming phases	•	•	•	•
Power plug (A: 4p-32A, B: 4p-16A)	B	B	A	A
Motor connection (M: 19p multiconnector, C: 4p 16A plug)	C	M	M	M
Plug positions (F: Frontside, R: Rearside)	F	R	F	R / F
Weight lbs. (kg)	39.7 (18)	61.7 (28)	70.5 (32)	77.2 (35)
Sizes inch (cm)	18.5 x 16.5 x 7.1 (47 x 42 x 18)	20 x 6.7 x 26 (51 x 17 x 66)	21 x 14.2 x 27.2 (53 x 36 x 69)	21 x 14.2 x 24.8 (53 x 36 x 63)
Power supply 208, 230 or 460v-3ph-60Hz	•	•	•	•

STAGEMAKER® CPU Controller



The R&M STAGEMAKER® CPU CONTROLLER has been developed specifically for the control of R&M STAGEMAKER® concert hoists. The system is modular in design enabling you to build a configuration of up to 8 units, each unit available with 8 channels and built into a 19" rack casing.

The software runs with Windows 9x (NT) on standard PC's or laptops (min. 260Mhz) equipped with an Ethernet adaptor. Required software and later updates can be downloaded from the Internet free of charge. The standard design controls 64 channels and includes simulation capabilities.

Features

- ◆ R&M STAGEMAKER® CPU CONTROLLER allows you to pre-program and control hoists individually, simultaneously or in groups
- ◆ Pre-selection and settings in numerous queues which can be made separately for different settings at various locations
- ◆ Power switching and controls are combined in one housing, hoists are connected through one 19 conductor multi-cable
- ◆ Hoist positions are determined by an incremental encoder located in the hoist drive-train, pulses are registered and temporarily stored in case of power failure.
- ◆ Selection for individual hoist or groupings, with adjustable synchronization.
- ◆ Time delay and synchronization available to create special effects
- ◆ Safety components such as emergency stop, overload device and thermal protection will stop the corresponding group if one hoist in the system fails.
- ◆ "Drag & drop" facility to create a realistic on screen lay-out of the truss configuration
- ◆ Various programming additions available
- ◆ Built-in phase failure and sequence fault detection with LED indication
- ◆ Remote E-stop and start button box
- ◆ Manual operation without PC through touchkeys with LED indication
- ◆ Safety system in accordance with BGV-C1
- ◆ Key-switch for bypass, no-load detection and fault detection reset



Hoists working with R&M STAGEMAKER® CPU CONTROLLER requires an incremental encoder, low voltage control and geared limit switches. In case of BGV-C10 requirements, the optional extra for this application must be taken into consideration. (Second motor brake)

R&M STAGEMAKER® CONTROLLER fully meets the latest European electrical standards (IEC & EMC), offering maximum flexibility, durability and safety.

R&M STAGEMAKER® R8CPU controllers are available to serve manual configuration BGV-C1 hoists. In such cases the unit is supplied without a processor board and doesn't require the software. All benefits of the basic modular set-up remain operational.

R&M

MATERIALS

HANDLING

INC.

STAGEMAKER®

4501 Gateway Blvd.

Springfield, OH 45502

Phone: (937) 328-5100

Fax: (937) 325-5319

Nationwide Toll-Free 1-800-955-9967

www.rmhoist.com

Bulletin No. STGM - 1

© 2001, R&M Materials Handling, Inc.

Stagemaker is a registered trademark
of R&M Materials Handling, Inc.

Stagemaker Manual Products

RM Manual Chain Hoist

- ◆ Load capacities from 1/8 ton to 5 tons
- ◆ Chain sprocket mounted on bearings
- ◆ Weston-style brake
- ◆ Lower hook limit maintained by fixed stop on load chain
- ◆ Galvanized load chain and hand chain



RL Manual Lever Puller

- ◆ Designed for both hoisting and pulling loads
- ◆ 1/4, 3/4, 1-1/2 and 3 ton load capacities
- ◆ Weston-style brake
- ◆ Lever directional switch allows operation from both directions
- ◆ Galvanized chain
- ◆ Chrome plated body and handle



RBC Beam Clamp

- ◆ 1, 2, 3 and 5 ton load capacities
- ◆ Designed for Standard and Wide Flange beams



HOIST
MANUFACTURERS
INSTITUTE
MEMBER COMPANY



YOUR DISTRIBUTOR CONTACT IS:



MHI
The Material Handling Institute
MEMBER COMPANY