



# LODESTAR®

C A T A L O G 2 0 1 0





Columbus McKinnon Entertainment Technology (CM-ET), the industry leader in providing quality lifting and positioning equipment for riggers around the globe, presents the new Lodestar Electric Chain Hoist. Generations of users have relied on the Lodestar "Motor" for consistent operation and long-life for years, and now exciting new features have been added to widen the appeal of the Lodestar to the next generation of rigging professionals.

In addition to a product line recognized in venues throughout the world, CM-ET has established a network of distributors that provide the highest level of customer service to users in the industry. Wherever the show takes place, a knowledgeable CM-ET distributor is available to offer assistance with parts, service, or accessories.

When searching for products or services to ensure that your event shines, turn to the company with more than 130 years of experience in meeting the needs of our customers – Columbus McKinnon.



DOWN  
THE POWER  
TO PERFORM

# LODESTAR®

## The Rigger's Choice

We've received the best reviews, heard "Bravo" countless times and, like all the greats, we're recognized in every venue around the world.

So how do we make the legendary Lodestar electric chain hoist even better? By incorporating new features that provide steady operation for any application in the entertainment industry.

From today's top-selling musical performers to international sporting competitions, organizers rely on the Lodestar for consistent performance event after event. Professional riggers have trusted the Lodestar for unsurpassed reliability for decades, and now you can experience the quietest, smoothest-running Lodestar ever. What an Encore!

**Specs**

**CAPACITIES**  
125 to 3000 kg

**LIFT**  
18, 20 & 24 meters standard  
(other lifts available)

**SPEEDS**  
2 to 30 m/min

**VOLTAGES**  
1-phase  
& 3-phase available



## NEW FEATURES ON THIS NEXT GENERATION OF LODESTAR

**5 POCKET LIFTWHEEL**  
IMPROVED CHAIN WEAR & SMOOTH LIFTING

**CLUTCH OUTSIDE GEAR TRAIN**  
MEETS INTERNATIONAL STANDARDS.

**PRECISION HELICAL GEARING**  
FOR QUIETER OPERATION

**REDESIGNED CONTROL PANEL**  
FOR EASIER ACCESS & FUSE INSTALLATION

### STANDARD FEATURES

**AC ELECTRO-MECHANICAL BRAKE**  
Field tested and proven in over 1 million Lodestars worldwide

**LOW VOLTAGE CONTROL**  
110 Volt for long cable runs without voltage drop 24 & 48 Volt optional. (Low Voltage Unit Only)

**DURABLE & LIGHTWEIGHT HOUSING**  
Cast aluminum. Black powder coated finish for low visibility.

**GEARING**  
Helical design for long wear life and smooth operation

**LOAD CHAIN**  
Designed and manufactured by Columbus McKinnon. Zinc plated to protect against corrosion. Optional black finish available.

**DUTY CYCLE**  
FEM Rating: 2m, designed for heavy duty application. 50% of Duty Cycle or 300 Starts per Hour.

**DIRECT CONTROL UNITS AVAILABLE**

### OPTIONAL FEATURES

**DOUBLE BRAKE**  
Two independent acting DC brakes for redundant braking. Field installation kit available.

**ENCODERS AVAILABLE**  
Incremental & Absolute

**CHAIN BAGS**  
Cloth type bags easy-to-mount

**ELECTRICAL**  
Finger safe wiring meets all electrical codes. Quick change plugs allow for voltages 190 thru 400. Prevents improper voltage connections which can cause hoist damage. (Low Voltage Unit Only)

**ADJUSTABLE LIMIT SWITCH**  
Adjustable screw limit switch that will automatically stop the hook at any predetermined point when either lifting or lowering, preventing overtravel. (Low Voltage Unit Only)

**OVERLOAD PROTECTOR**  
Designed to prevent lifting of excessive overloads. Helps prevent lifting of dangerous overloads.

**METRIC RATED**

**MEETS REQUIREMENTS**  
Meets or exceeds world standards.

**ROAD READY**  
Easy to stow and travel.

**LIFETIME WARRANTY**  
The industry's best

**VARIABLE SPEED UNITS AVAILABLE**

**ALLOY LATCHLOK HOOKS**  
Remains locked until released by the operator, even if chain goes slack.

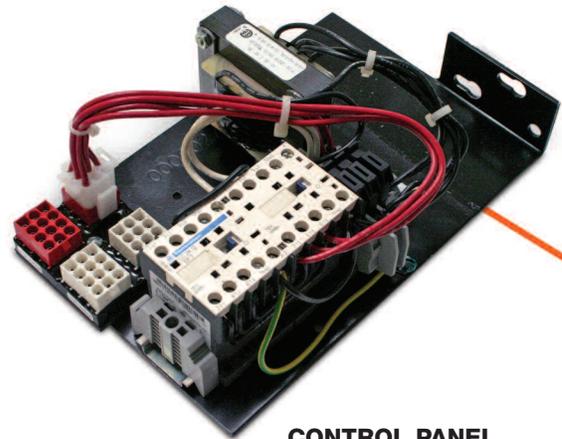
# LODESTAR D8 SERIES

## Specifications, Dimensions & Key Components



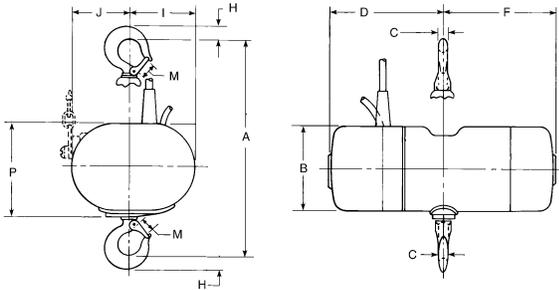
### LOAD CHAIN

Sizes available from 6.35mm to 7.94mm  
Chain is available according to EN 818-7  
Meets or exceeds many national and international standards.  
Zinc plated supplied as standard. Black phosphate finish available.  
100% proof tested



### CONTROL PANEL

Provides easy access to controls, plug & play connectors allow for quick voltage change for dual voltage motors. Fuses located on terminal strip.



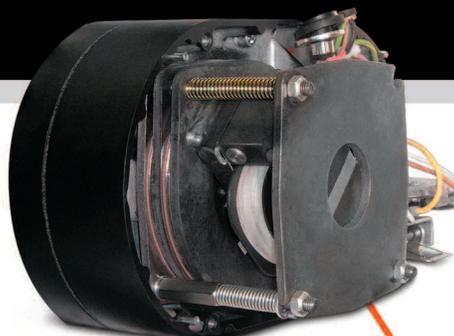
### DIMENSIONS

DRAWING LEGEND	D8 SERIES A, AA, B, C, E, F, H	D8+ SERIES A, AA, B, C, E, F, H	D8 & D8+ SERIES J, L, LL	D8 & D8+ SERIES JJ, R, RR, RT	BGV-C1 SERIES		
					F	L, LL	JJ, RR VARISTAR
B Body High	15,4 cm	15,4 cm	19,4 cm	19,4 cm	15,4 cm	19,4 cm	19,4 cm
C Hook Thickness: Side	1,7 cm	1,7 cm	2,2 cm	2,9 cm	1,7 cm	2,2 cm	2,9 cm
D Housing: Brake Side	29,7 cm	29,7 cm	25,3 cm	25,3 cm	29,7 cm	25,3 cm	25,3 cm
F Housing: Motor Side	22,5 cm	22,5 cm	32,9 cm	32,9 cm	22,5 cm	32,9 cm	32,9 cm
H Hook Thickness: High	2,5 cm	2,5 cm	3,0 cm	3,8 cm	2,5 cm	3,0 cm	3,8 cm
I Housing: Side Right	10,7 cm	10,7 cm	14,5 cm	17,9 cm	10,7 cm	14,5 cm	17,9 cm
J Housing: Side Left	11,3 cm	11,3 cm	17,6 cm	14,2 cm	11,3 cm	17,6 cm	14,2 cm
M Hook Opening	2,5 cm	2,5 cm	2,8 cm	3,3 cm	2,5 cm	2,8 cm	3,3 cm
P Body High with Suspension	16,8 cm	16,8 cm	20,8 cm	20,8 cm	16,8 cm	20,8 cm	20,8 cm

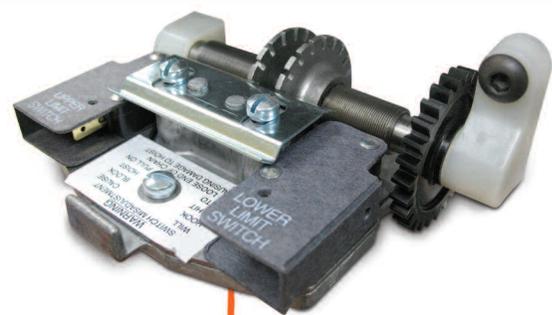
### SPECIFICATIONS D8

	Rate Capacity	Standard Lifting Speed at 50Hz	Operating Voltage	Single Phase Voltage	FEM Class	FEM Duty Factor	Chain Weight per meter lift-EWL	Load Chain EN 818-7	Power Consumption -Full Load	Reeves Falls of Chain	Motor HP	Protection Class	Noise Level
Model A	125 kg	8 m/min	400-3-50	optional	2M	50%	0,89 kg	6,3 x 18,9	1,1 A	1	1/4 HP	IP 55	73 db(A)
Model AA	125 kg	16 m/min	400-3-50	optional	2M	50%	0,89 kg	6,3 x 18,9	1,1 A	1	1/4 HP	IP 55	73 db(A)
Model B	250 kg	4 m/min	400-3-50	optional	2M	50%	0,89 kg	6,3 x 18,9	1,1 A	1	1/4 HP	IP 55	73 db(A)
Model C	250 kg	8 m/min	400-3-50	optional	2M	50%	0,89 kg	6,3 x 18,9	1,2 A	1	1/2 HP	IP 55	73 db(A)
Model E	500 kg	2 m/min	400-3-50	optional	2M	50%	1,78 kg	6,3 x 18,9	1,2 A	2	1/2 HP	IP 55	73 db(A)
Model F	500 kg	4 m/min	400-3-50	optional	2M	50%	0,89 kg	6,3 x 18,9	1,2 A	1	1/2 HP	IP 55	73 db(A)
Model H	1000 kg	2 m/min	400-3-50	optional	2M	50%	1,78 kg	6,3 x 18,9	1,2 A	2	1/2 HP	IP 55	73 db(A)
Model J	500 kg	8 m/min	400-3-50	-	2M	50%	1,42 kg	7,9 x 21,7	2,3 A	1	1 HP	IP 55	73 db(A)
Model JJ	500 kg	16 m/min	400-3-50	-	2M	50%	1,42 kg	7,9 x 21,7	3,6 A	1	2 HP	IP 55	73 db(A)
Model L	1000 kg	4 m/min	400-3-50	optional	2M	50%	1,42 kg	7,9 x 21,7	2,3 A	1	1 HP	IP 55	73 db(A)
Model LL	1000 kg	8 m/min	400-3-50	-	2M	50%	1,42 kg	7,9 x 21,7	3,6 A	1	2 HP	IP 55	73 db(A)
Model R	2000 kg	2 m/min	400-3-50	optional	2M	50%	2,84 kg	7,9 x 21,7	2,3 A	2	1 HP	IP 55	73 db(A)
Model RR	2000 kg	4 m/min	400-3-50	-	2M	50%	2,84 kg	7,9 x 21,7	3,6 A	2	2 HP	IP 55	73 db(A)
Model RT	3000 kg	1,4 m/min	400-3-50	optional	2M	50%	4,26 kg	7,9 x 21,7	3,6 A	3	2 HP	IP 55	73 db(A)

\*415 Volt Operation      \*220 Volt Operation



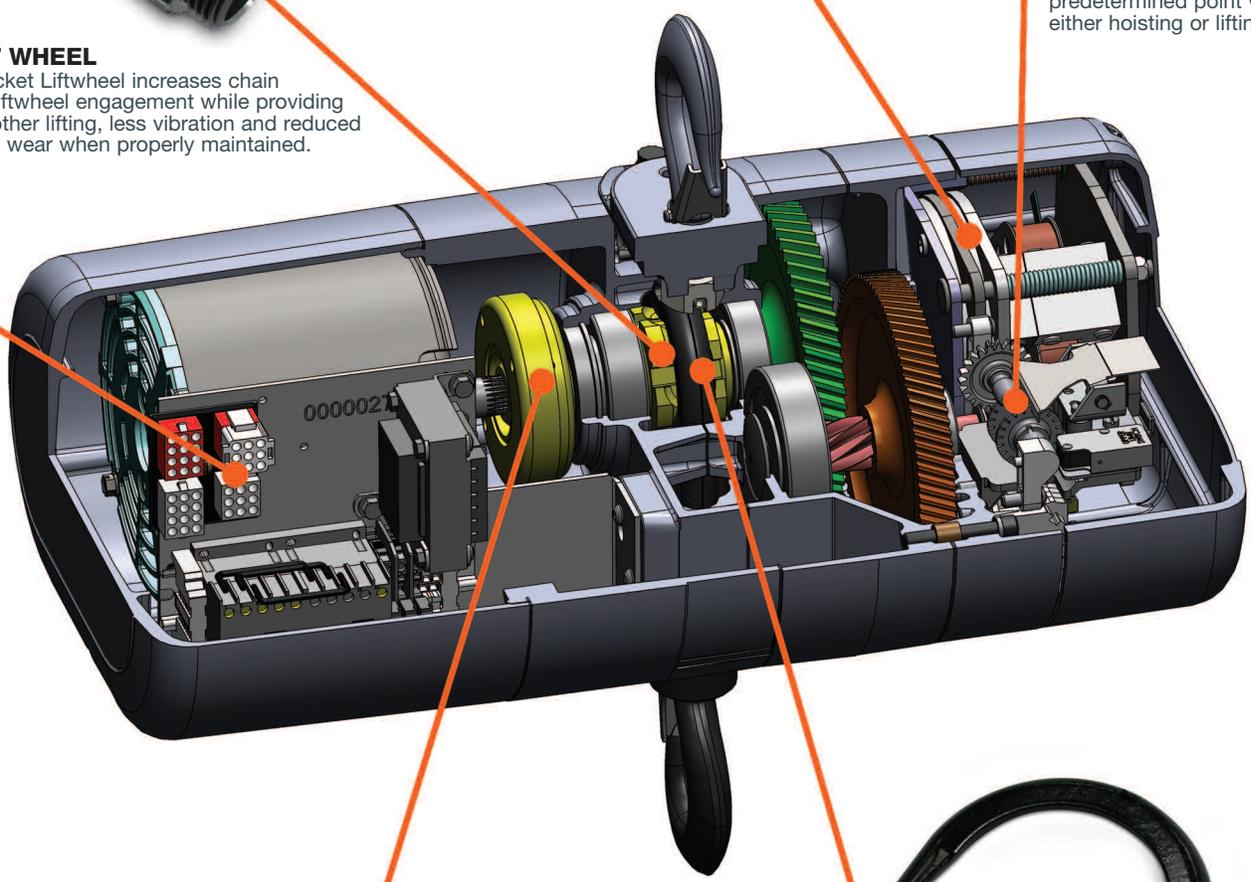
**BRAKE**  
Heavy Duty AC Brake proven design in more than 1 million Lodestars. (Double DC Brake available)



**LIMIT SWITCH**  
Adjustable screw limit switch that will automatically stop the hook at any predetermined point when either hoisting or lifting.



**LIFT WHEEL**  
5 Pocket Liftwheel increases chain and liftwheel engagement while providing smoother lifting, less vibration and reduced chain wear when properly maintained.



**CLUTCH**  
Designed to prevent lifting of excessive overloads. Located outside the gear box. Adjustable and easy to access.



**INTERNAL CHAIN GUIDE**  
Stamped Steel guide coated for corrosion resistance and quiet operation, while keeping the load chain and liftwheel aligned.