



# NHC High-End Electric Chain Hoist: A Model for Domestic Industry Practices



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# Nucleon NHC High-end Electric Chain Hoist

NHC high-end chain electric hoists redefine industry standards with their superior quality standards and forward-thinking innovative designs.

## German standard quality

The NHC series features modular components and a wide product range for harsh working environments. Its upgraded structure and premium components ensure higher reliability and performance.

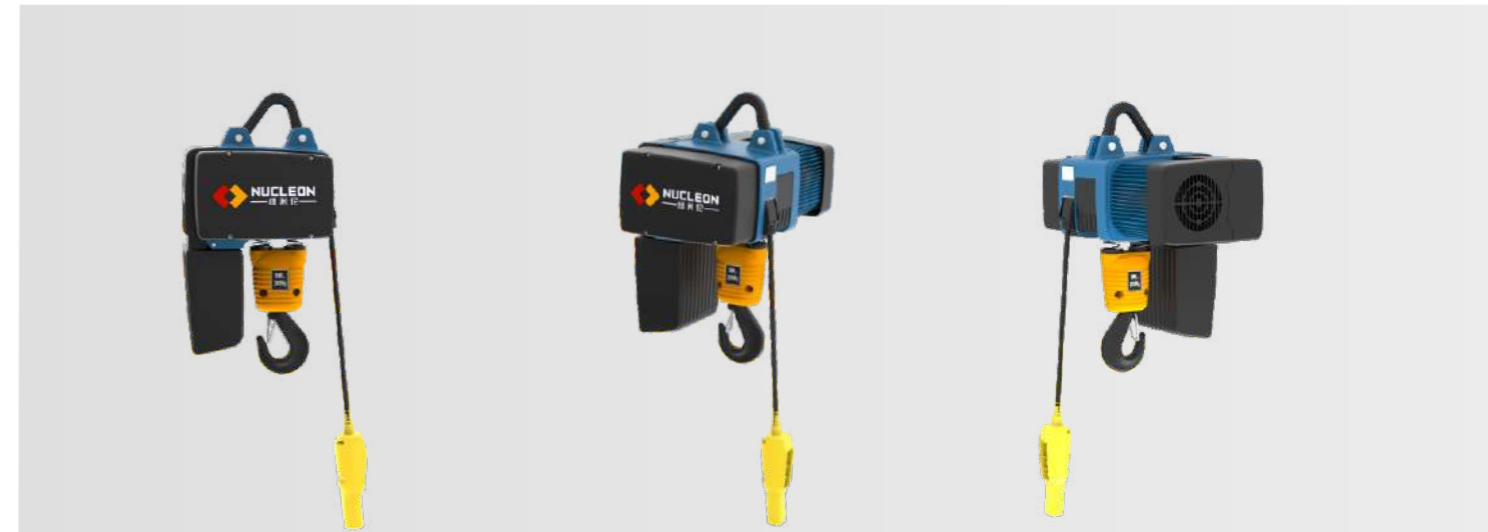
## A completely new generation

Key components provide up to 10 years of maintenance-free operation, with tool-free adjustment and plug-and-play design for easier servicing. The hoist features friction clutch overload protection, 48V contactor control, and travel limit switches for enhanced safety. Its innovative clutch and brake structure ensures secure load holding even if one mechanism fails, improving reliability and service life.



# NHC High-End Electric Chain Hoist

Lifting capacities range from 80kg to 20000kg, with a maximum lifting height of 200m. Models 5 and 10 are currently in stock.



## NHC High-End Electric Chain Hoist

## Available immediately

The motor features a 60% duty cycle with IP55 protection and thermal protection as standard. High-strength carburized chains, Grade V hooks, and advanced lubrication technology ensure reliable and durable performance.





## Nucleon NHC High-end Electric Chain Hoist Features

### Setting the Industry Standard

- Standard configuration with complete functions
- Equipped with two lifting speeds as standard
- 48V contactor control
- Travel limit switches (upper/lower limits)
- Powder-coated aluminum housing
- Duty cycle: 60% (40/20); up to 360 starts/stops per hour at 45°C, and capable of operating at temperatures up to 60°C
- Signal design suitable for 3-axis movement
- Suspension bracket effectively optimizes dimension C for easy installation

## Easy to install and maintain

The NHC high-end chain electric hoist assembly is designed for long-term, high-efficiency operation and can be easily inspected, maintained, or have its parameters adjusted without the need for special tools.

### Main Components Maintenance-Free

- Gearbox & clutch: 10-year maintenance-free
- Brake: 10-year maintenance-free
- Brake life: up to 1.5M cycles
- Low brake wear, no adjustment needed
- Anti-adhesion brake technology
- Brake before clutch to prevent load fall

### Easy Maintenance & Quick Replacement

- Replaceable gearbox, contactor/relay
- Clutch adjustable without special tools
- Inspection cover for quick access
- Chain lubrication via guide holes
- Replace chain guide without disassembly
- Durable chain guide for harsh conditions

### Quick Installation

- Modular design, easy disassembly
- Individual parts service, less downtime
- Articulated bracket: install after trolley



# NUCLEON: Safety at the Core

The standard safety features of NUCLEON NHC electric chain hoists effectively ensure the efficiency and safety of daily operations.

- Safety functions comply with EN ISO 13849-1, meeting PL c, Category 2 and higher
- Brake is installed before the friction clutch to safely hold loads and eliminate falling risks
- Meets functional safety requirement
- Hoist and travel drive: IP55 protection, Class F insulation
- 48V contactor control for low-voltage safe pendant operation
- Plug-and-play electrical connections for easy use



## Quality in Every Detail

Nucleon high-end NHC electric chain hoists are assembled with premium components, designed for harsh conditions and continuous long-term operation. Core components like the gearbox, brake, and friction clutch offer up to 10 years of maintenance-free service.



- Large-Size Gearbox
- Complies with FEM "+" duty rating, extending service life by 20% vs. standard
- Duty class up to 4m for heavy-duty applications, with a service life of up to 6,300 hours
- New, higher duty classes (Class A & Dh) based on operating cycles
- All components designed for long-term continuous use, ensuring long life even in extreme environments
- Stable operation from -20°C to +45°C without derating the duty cycle
- Capable of stable operation at 60°C and above
- High-reliability drive motor with superior switching cycles
- Standard with reinforced chain guide
- High-power cylindrical rotor motor with fan and independent DC brake  
Standard with motor thermal protection

### FEM/ISO Duty Classification

Chain hoists are classified per DIN EN 14492-2 FEM/ISO standards. Maximum service life under full load is calculated based on daily operating hours, load weight, and total lifting distance.

Duty Class FEM/ISO	Operating Time/h
1Am/M4	800
2m/M5	1600
2m+/M5+	1920
3m/M6	3200
4m/M7	6300

Service life +20%

## Efficient & Convenient Material Handling

Nucleon NHC high-end electric chain hoists improve handling efficiency. Precision-matched components ensure accurate positioning, boosting workflow efficiency. The ergonomic pendant control enhances user experience.

### Smooth & Safe Handling of Precision Parts

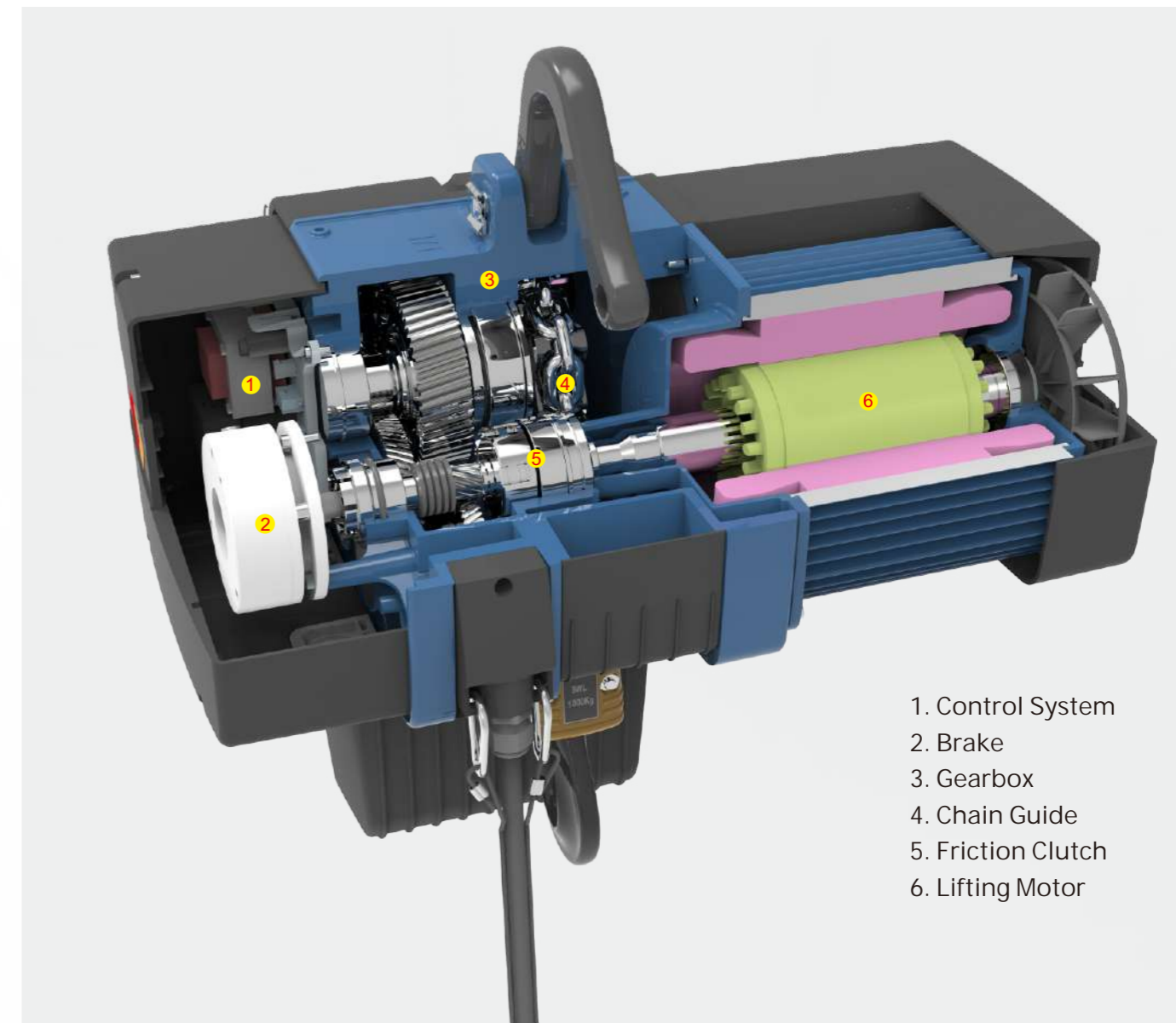
- Smooth motor start/stop suppresses load swing
- High-power motor with precision-matched components ensures positioning accuracy
- Dual-speed function for high-speed operation and precise positioning
- Customizable to meet personalized needs; no extra wiring required
- Helical gear transmission in all gear stages reduces noise
- High-quality drive system ensures smooth operation



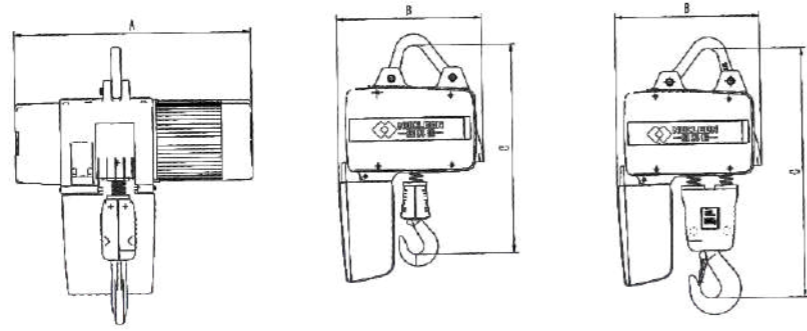
## Advanced Equipment Manufacturing

### Quality Delivers Superior Performance

### Reliability Fulfills Our Promise



# Technical parameters



Rated Load (Kg)	Model	Reev-ing	Lifting Speed (m/min)	Motor Power (Kw)	Standard Lifting Height (m)	Duty Class ISO (FEM)	Chain Size (mm)	Weight (3m) (Kg)	Main Dimensions (mm)		
									A	B	C
80	5	1/1	24/6	0.18/0.72	3	M7(4m)	6*18	30	468	301	437
100	5	1/1	24/6	0.18/0.72	3	M7(4m)	6*18	30	468	301	437
125	5	1/1	24/6	0.18/0.72	3	M7(4m)	6*18	30	468	301	437
160	5	1/1	16/4	0.18/0.72	3	M7(4m)	6*18	30	468	301	437
	5	1/1	24/6	0.18/0.72	3	M7(4m)	6*18	30	468	301	437
200	5	1/1	16/4	0.18/0.72	3	M7(4m)	6*18	30	468	301	437
	10	1/1	24/6	0.57/2.3	3	M7(4m)	8*24	60	580	355	511
250	5	1/1	16/4	0.18/0.72	3	M7(4m)	6*18	30	468	301	437
	10	1/1	24/6	0.57/2.3	3	M7(4m)	8*24	60	580	355	511
315	5	1/1	8/2	0.18/0.72	3	M7(4m)	6*18	30	468	301	437
	10	1/1	12/3	0.57/2.3	3	M7(4m)	8*24	60	580	355	511
	10	1/1	24/6	0.57/2.3	3	M7(4m)	8*24	60	580	355	511
400	5	1/1	8/2	0.18/0.72	3	M6(3m)	6*18	30	468	301	437
	10	1/1	12/3	0.57/2.3	3	M7(4m)	8*24	60	580	355	511
	10	1/1	24/6	0.57/2.3	3	M7(4m)	8*24	60	580	355	511
500	5	1/1	8/2	0.18/0.72	3	M5(2m)	6*18	30	468	301	437
	10	1/1	12/3	0.57/2.3	3	M7(4m)	8*24	60	580	355	511
	10	1/1	24/6	0.57/2.3	3	M5(2m)	8*24	60	580	355	511
630	5	1/1	8/2	0.18/0.72	3	M5(2m)	6*18	30	468	301	437
	5	2/1	4/1	0.18/0.72	3	M4(1Am)	6*18	34	468	301	508
	10	1/1	6/1.5	0.57/2.3	3	M7(4m)	8*24	60	580	355	511

Rated Load (Kg)	Model	Reev-ing	Lifting Speed (m/min)	Motor Power (Kw)	Standard Lifting Height (m)	Duty Class ISO(FEM)	Chain Size (mm)	Weight (3m) (Kg)	Main Dimensions (mm)		
									A	B	C
630	10	1/1	8/2	0.57/2.3	3	M7(4m)	8*24	60	580	355	511
	10	1/1	12/3	0.57/2.3	3	M7(4m)	8*24	60	580	355	511
800	5	2/1	4/1	0.18/0.72	3	M6(3m)	6*18	34	468	301	508
	5	1/1	6/1.5	0.57/2.3	3	M6(3m)	8*24	60	580	305	511
	10	1/1	8/2	0.57/2.3	3	M6(3m)	8*24	60	580	305	511
	10	1/1	12/3	0.57/2.3	3	M6(3m)	8*24	60	580	305	511
1000	5	2/1	4/1	0.18/0.72	3	M5(2m)	6*18	34	468	301	508
	10	1/1	6/1.5	0.57/2.3	3	M5(2m)	8*24	60	580	305	511
	10	1/1	8/2	0.57/2.3	3	M5(2m)	8*24	60	580	305	511
	10	1/1	12/3	0.57/2.3	3	M5(2m)	8*24	60	580	305	511
1250	5	2/1	4/1	0.18/0.72	3	M4(1Am)	6*18	34	468	301	508
	10	2/1	6/1.5	0.57/2.3	3	M7(4m)	8*24	68	580	355	610
1600	10	1/1	8/2	0.57/2.3	3	M5(2m)	8*24	60	580	355	511
	10	2/1	6/1.5	0.57/2.3	3	M6(3m)	8*24	68	580	355	610
2000	25	1/1	12/3	0.93/3.7	3	M6(3m)	11.2*34	112	722.5	468	726
	10	2/1	4/1	0.57/2.3	3	M5(2m)	8*24	68	580	355	610
2500	10	2/1	6/1.5	0.57/2.3	3	M5(2m)	8*24	68	580	355	610
	25	1/1	8/2	0.93/3.7	3	M5(2m)	11.2*34	112	722.5	468	726
	10	2/1	4/1	0.57/2.3	3	M5(2m)	8*24	68	580	355	610
3200	25	2/1	6/1.5	0.93/3.7	3	M5(2m)	11.2*34	126	722.5	468	890
4000	25	2/1	4/1	0.93/3.7	3	M6(3m)	11.2*34	126	722.5	468	890
5000	25	2/1	4/1	0.93/3.7	3	M5(2m)	11.2*34	126	722.5	468	890
7500	25	3/1	27/0.5	0.93/3.7	3	M4(1Am)	11.2*34	200	722.5	980	850
10000	2*25	4/2	4/1	2*0.93/3.7	3	M4(1Am)	11.2*34	320	816	1200	1000
20000	2*25	8/2	2/1	2*0.93/3.7	3	M4(1Am)	11.2*34	320	816	1650	1240