

HTC

SPECIALISED TOOLS
AND EQUIPMENT

"Makin' the Hard Jobs Easy"

ELEPHANT

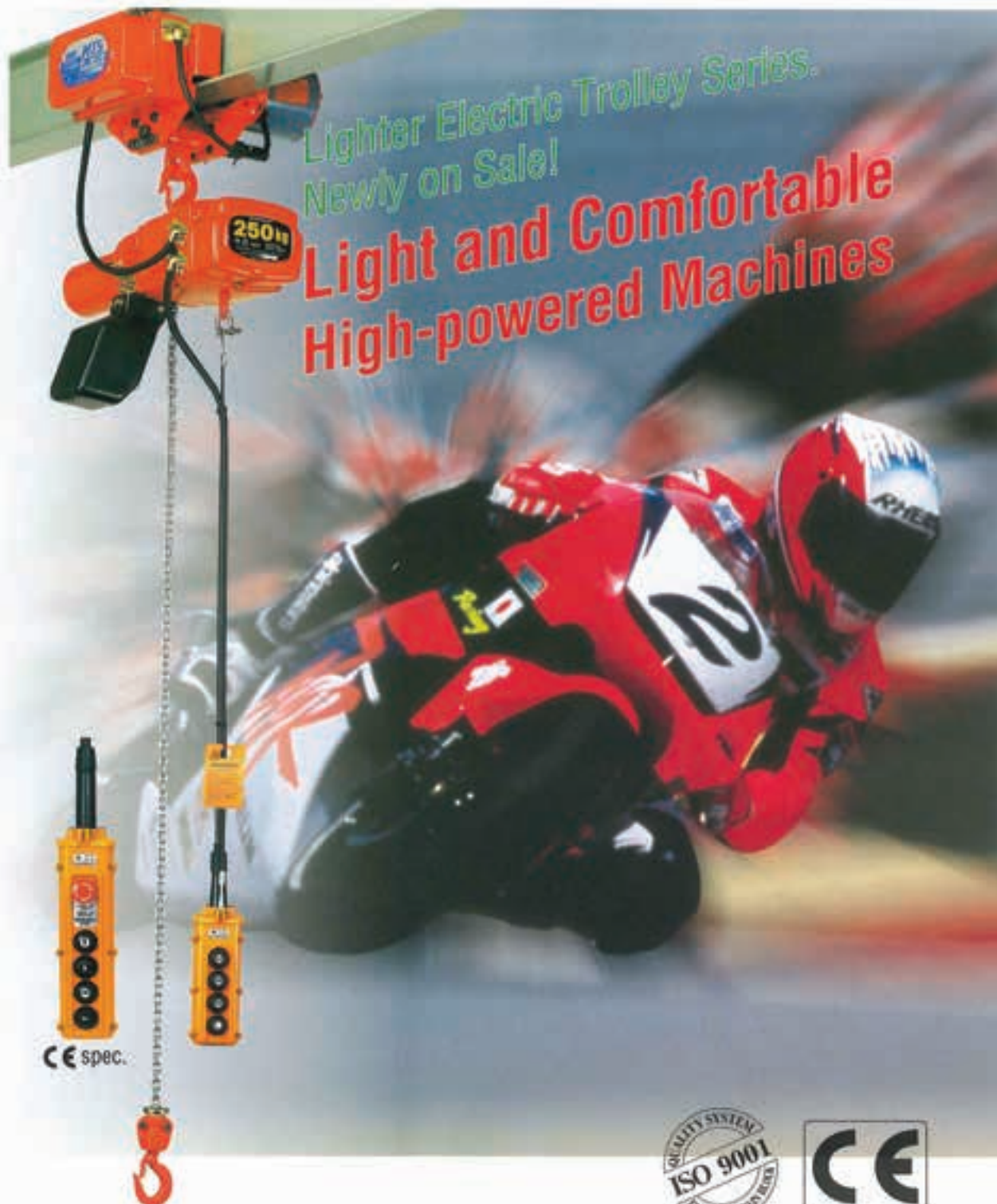
No.2

COMPACT ELECTRIC CHAIN HOIST

α ALPHA series

Single-phase & 3-phase

Ranging 60kg~500kg



CE SPEC.



ISO9001
JQA-1547

ELEPHANT'S ALPHA SERIES FEATURES A SPACESAVING, STATE-OF-THE-ART PROFILE.

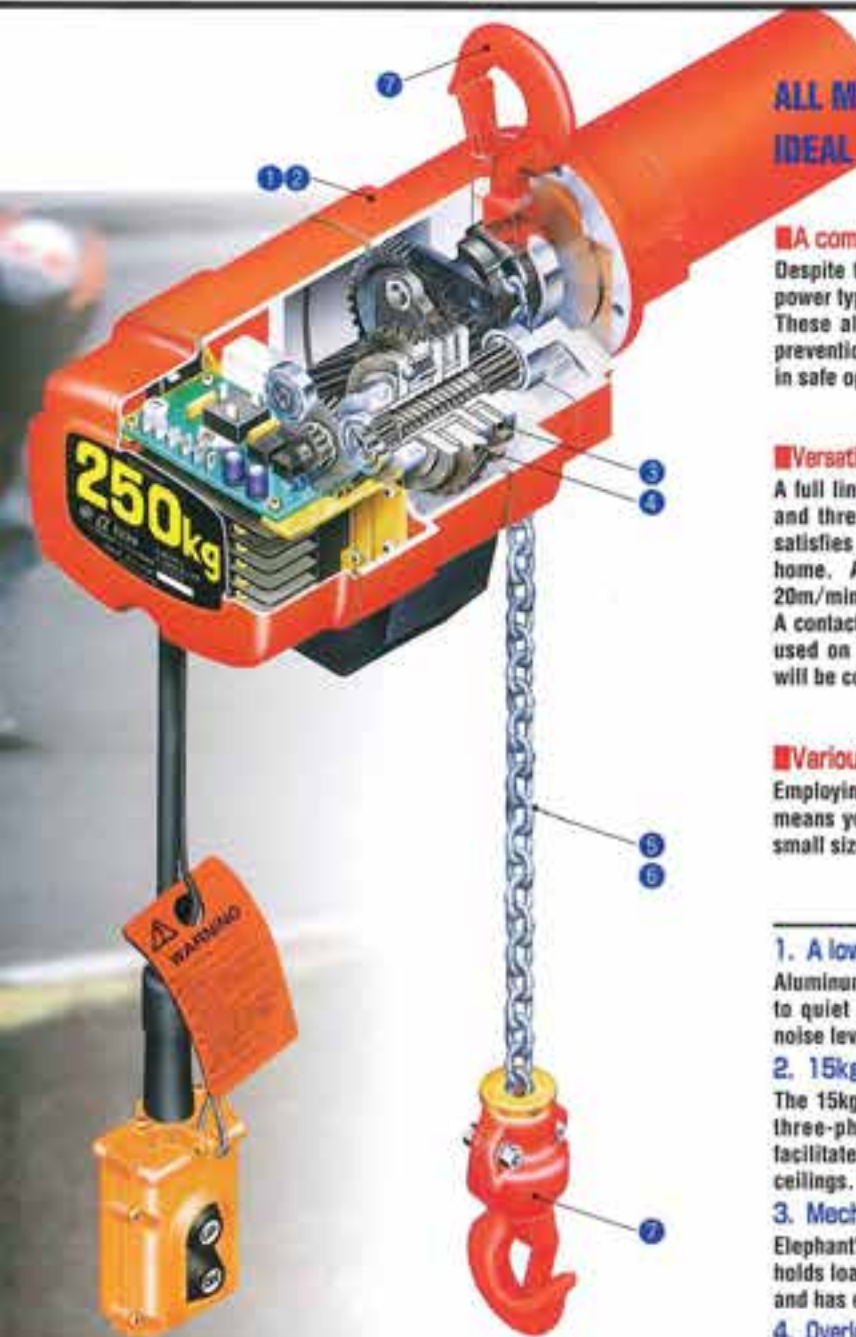
The Alpha Series transports and handles cargo flexibly and efficiently in various environments, ranging from homes and shops to factories and warehouses, and from fishery and agriculture to construction sites.

All Electric Trolley Series Made Lighter.

(including comfortable, single-phase, 100 V type)

All trolley series, including the highly reputed "Single-phase, 100 V electric trolley coupling type" capable of carrying out hoisting up/down and transfer functions simply by using the household power source, the "single-phase, 200 V type," and the "three-phase, 200 V type" are made further lighter, with the weight of the 500 kg type being reduced by a maximum of 16.5 kg to ensure further compactness.

The "Cargo Handling System" using ALPHA series has become much easier to be introduced in wider range of industries from the farms or stores using household power source to workshops or factories using high-tension power source. Please try and see the comfort in handling, characteristic of the "Small-in-size, Light-in-weight and High-in-performance" ALPHA series.



**ALL MODELS COME WITH GALVANIZED LOAD CHAIN!
IDEAL MACHINES—STRONG, SAFE, AND COMPACT**

■ A compact design that provides safety and high power.

Despite their compactness and light weight, the Alpha Series single-phase power types can hoist 500kg and the three-phase power types, 500kg. These all-around machines are equipped with an overwind and overload prevention device and a unique braking mechanism, assuring the ultimate in safe operation.

■ Versatility and unrivaled performance are the keys to their great popularity.

A full line of 152 types (single-phase 100~115V) (single-phase 200V~230V and three-phase 200V, 220V, 380V, 400V, 415V, 440V) power supplies satisfies a multitude of demands in agriculture, shops, factories and the home. A simple push-button operation provides high-speed hoisting of 5-20m/min. (Models with variable speeds and a slow speed are also popular.) A contactor designed for frequent use guarantees excellent durability when used on jobs requiring frequent inching operations, which means the job will be comfortable and easy for all operators.

■ Various accessories accommodate all operational environments.

Employing combinations using hooks, trolleys, mini saddles, and jib cranes means you can work in all operational environments. Their lightness and small size facilitate installation.

1. A low-noise design satisfies today's demands.

Aluminum die cast bodies and well thought out machine efficiency have led to quiet machines; an important feature in environments requiring low noise levels such as hospitals, shops, homes, and schools.

2. 15kg, net weight with a short head.

The 15kg net weight of single-phase 200kg types and 16.5kg net weight of three-phase 250kg types means they're easy to carry. A short head facilitates operations with short hoisting distances and at sites with low ceilings.

3. Mechanical and power brakes provide outstanding braking.

Elephant's unique brake mechanism uses non-asbestos material. It not only holds loads securely but also delivers sufficient braking force for tough jobs and has exceptionally long service life.

4. Overload and overwind preventions are integrated in one safety device.

Overwind prevention ensures stability even if frequently overwound or lowered excessively. In addition, when too much weight is applied, the overload prevention works smoothly, preventing the inside and the chain from being overloaded. This guarantees safe operations.

5. A superstrong white load chain for tough jobs.

A special surface-treated white chain ensures long hours of safe operation even in corrosive outdoor environments.

6. Superstrong surface-hardened load chain with 80kgf/mm² minimum braking stress.

Elephant's high-tech surface-hardened load chain is authorized by DIN 5684, one of the strictest standards in the world. Its tensile strength of 80kgf/mm² surpasses requirements specified in the JIS DAT (80kgf/mm²) for surface-hardened chains.

※DIN-stamp chain is available on request.

7. Upper and lower hooks and a safety latch ensure safe, smooth operation.

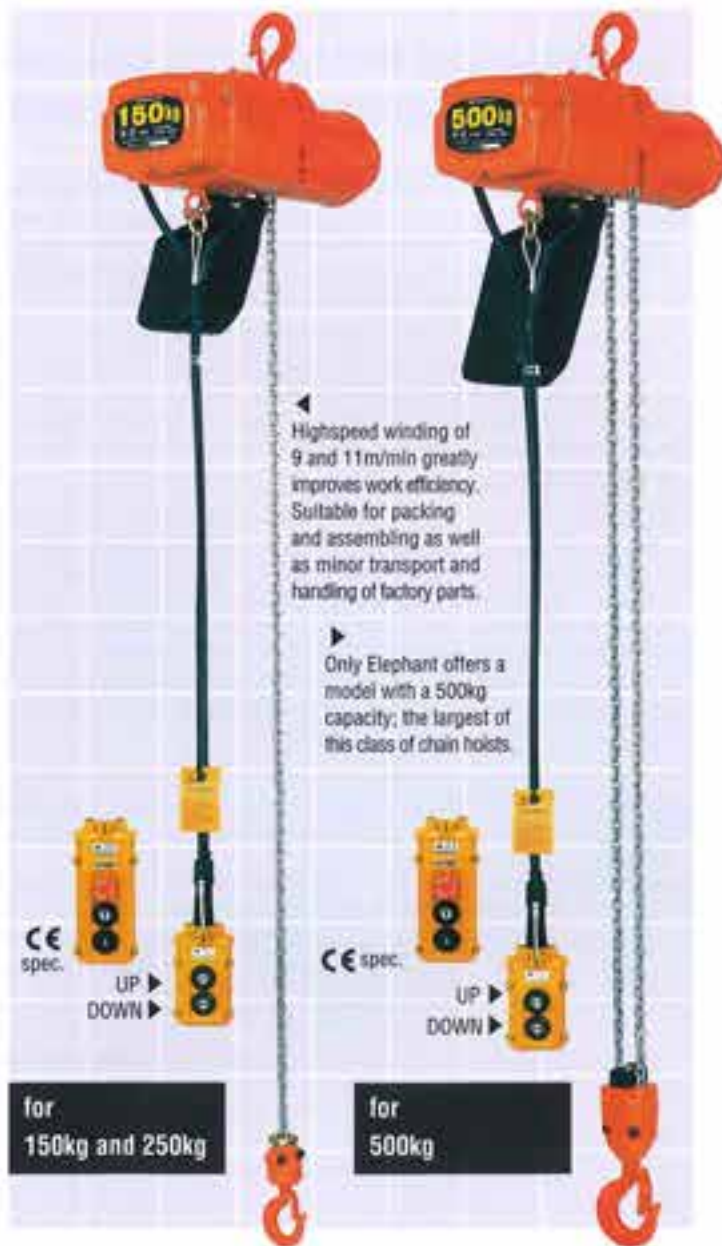
An overload will only gradually deform the upper and lower hooks, but never break them. Furthermore, a large hook maneuvering area facilitates slinging work. The thrust bearing of the unique, compact, lower hook makes it possible to change load directions without adding stress. A strong safety latch ensures safe operation.



IMPROVED PERFORMANCE TO CARRY LIGHT WEIGHT MATERIALS

3-phase

3-phase double-fall chain

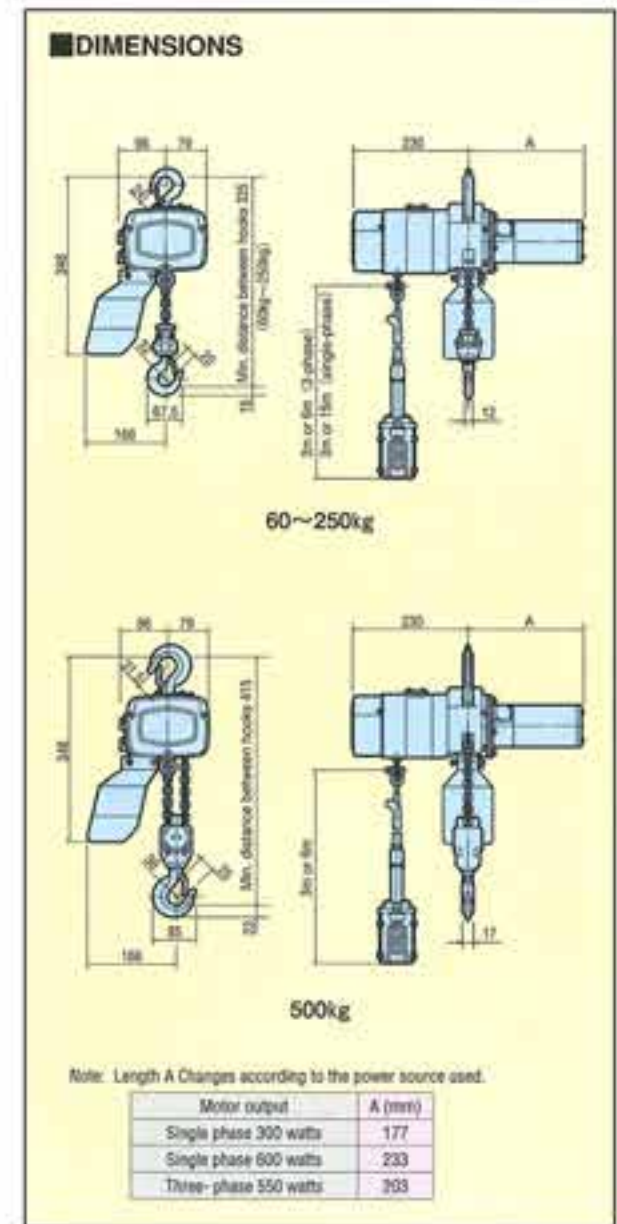
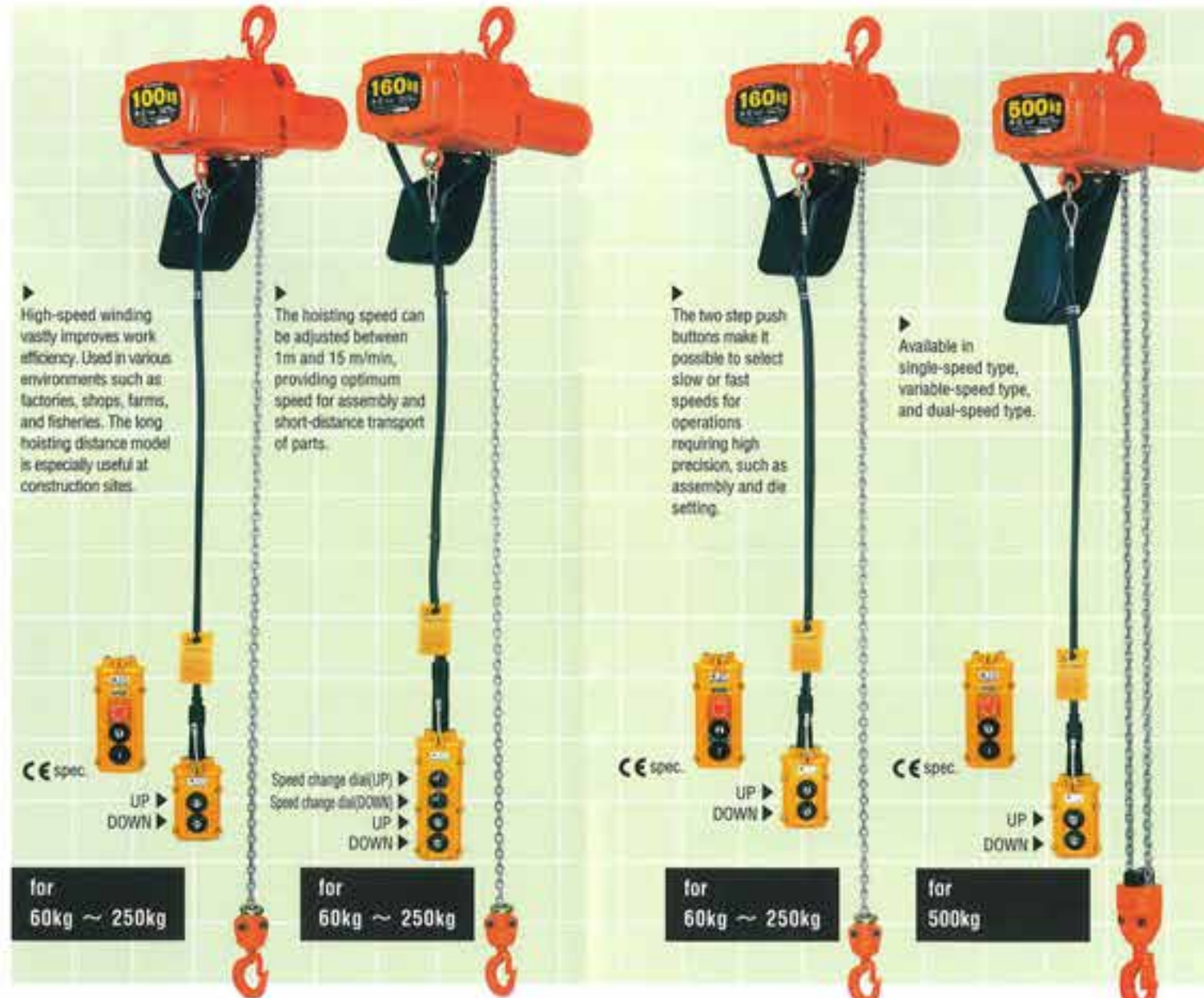


Single-phase, Single-Speed type

Single-phase, Variable-Speed type

Single-phase, Dual-Speed type

Single-phase, double-fall chain



3-phase		Single-speed type		
Type		$\alpha C-015$	$\alpha C-025$	$\alpha C-05$
Model	200V ~ 440V #			
Rated load(kg)		150	250	500
Motor output(W)		550		
Short-time rating (min)		30		
Repetition ratings	Load time rate(%ED)	30 or 40		
	Max. starting frequency (times/hr)	1200 or 240		
Rated current (A)		3	4	4
Lifting speed (m/min)	50Hz	9	11	4.5
	60Hz	11	11	5.5
Standard lift (m)		3		
Min. distance between hooks(mm)		325		415
Push-button cord length (m)		3		
Load chain, diameter x pitch(mm)		4x12		
Net weight (kg)		18		21.5

Single-phase		Single-speed type				Variable-speed type					Dual-speed type					
Type		$\alpha S-006$	$\alpha S-01$	$\alpha S-016$	$\alpha S-025$	$\alpha S-05$	$\alpha SV-006$	$\alpha SV-01$	$\alpha SV-016$	$\alpha SV-025$	$\alpha SV-05$	$\alpha SB-006$	$\alpha SB-01$	$\alpha SB-016$	$\alpha SB-025$	$\alpha SB-05$
Model	For 100 ~ 115(V) #															
	For 200 ~ 230(V) #	$\alpha H-006$	$\alpha H-01$	$\alpha H-016$	$\alpha H-025$	$\alpha H-05$	$\alpha HV-006$	$\alpha HV-01$	$\alpha HV-016$	$\alpha HV-025$	$\alpha HV-05$	$\alpha HB-006$	$\alpha HB-01$	$\alpha HB-016$	$\alpha HB-025$	$\alpha HB-05$
Rated load(kg)		60	100	160	250	500	60	100	160	250	500	60	100	160	250	500
Motor output(W)		300				600	300					300				
Short-time rating (min)						25	25					25				
Repetition ratings	Load time rate(%ED)					30	30					30				
	Max. starting frequency (times/hr)					180	180					180				
Rated current (A)		6 [4]	8 [5]	12 [6]		12 [6]	6 [4]	8 [5]	12 [6]			6 [4]	8 [5]	12 [6]		
Lifting speed (m/min)		13	13	15	10	3	1~13	1~13	1~15	1~10	0.5~5	Low-speed 5	Low-speed 4	Low-speed 5	Low-speed 4	Low-speed 2
												High-speed 13	High-speed 13	High-speed 15	High-speed 10	High-speed 5
Standard lift (m)						3	3					3				
Min. distance between hooks(mm)						325	325					325				
Push-button cord length (m)						3	3					3				
Load chain, diameter x pitch(mm)						4x12	4x12					4x12				
Net weight (kg)		14.5		16.5		20	15		17		20.5	14.5		16.5		20

Notes: 1. A power source cable (2mm²×4 Core wires)5m is included for 3phase. 2. Figure in [] shows that of αH type.

3. Power supply voltage for operating the push-button switch is 24V 3phase or 100V (or 200V) single phase. 4. 500kg type is also available to supply the equipment for 490kg.

Notes: 1. A power source cable (2mm²×3 core wires)5m is included for Single phase. # Specify the voltage you require.

● Specifications and dimensions are subject to change without notice

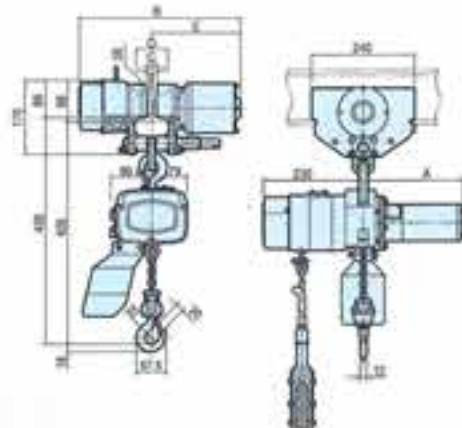
Single-phase 100 V ~ 230 V Electric Chain Hoist with Electric Trolley



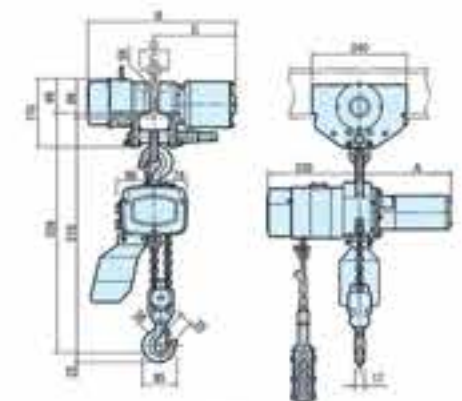
for 60kg and 250kg

for 500kg

DIMENSIONS



60~250kg



500kg

Note-1: Length A Changes according to the power source used.

Motor output	A (mm)
Single phase 300 watts	177
Single phase 600 watts	233

Note-2: The B, C, E dimensions change according to the width of the applicable rail.

	Rail width D (mm)		
	75	100	125
B	375	400	425
C	24	49	74
E	207	219.5	232

Specifications for Single-phase Electric Chain Hoist with Electric Trolley

Model	Rated load (kg)	Voltage (V)	Minimum distance between hooks* (mm)	Standard lift (m)	Motor output (kW)	Lifting speed (m/min)	Traverse motor output (kW)	Traversing speed (m/min) (50Hz/60Hz)	Applicable traverse rail width (mm)	Minimum traverse turning radius (mm)	Minimum height of traverse rail (mm)	Net weight (kg)	
100 ~ 115V	200 ~ 230V												
αSM - 006	αHM - 006	60	100/115 : 200/230	426	3	0.3	13					32.5	
αSVM - 006	αHVM - 006	60	100/115 : 200/230	426	3	0.3	1~13					33	
αSBM - 006	αHBM - 006	60	100/115 : 200/230	426	3	0.3	Low:5 High:13					32.5	
αSM - 01	αHM - 01	100	100/115 : 200/230	426	3	0.3	13					32.5	
αSVM - 01	αHVM - 01	100	100/115 : 200/230	426	3	0.3	1~13					33	
αSBM - 01	αHBM - 01	100	100/115 : 200/230	426	3	0.3	Low:4 High:13					32.5	
αSM - 016	αHM - 016	160	100/115 : 200/230	426	3	0.6	15					32.5	
αSVM - 016	αHVM - 016	160	100/115 : 200/230	426	3	0.6	1~15	0.3	10/12	75	1100	125	35
αSBM - 016	αHBM - 016	160	100/115 : 200/230	426	3	0.6	Low:5 High:15			•			34.5
αSM - 025	αHM - 025	250	100/115 : 200/230	426	3	0.6	10			•			34.5
αSVM - 025	αHVM - 025	250	100/115 : 200/230	426	3	0.6	1~10			•			35
αSBM - 025	αHBM - 025	250	100/115 : 200/230	426	3	0.6	Low:4 High:10			•			34.5
αSM - 050	αHM - 050	500	100/115 : 200/230	516	3	0.6	5			•			38
αSVM - 050	αHVM - 050	500	100/115 : 200/230	516	3	0.6	0.5~5			•			38.5
αSBM - 050	αHBM - 050	500	100/115 : 200/230	516	3	0.6	Low:2 High:5			•			38

Notes: 1. See page 3-4 for the specifications for small electric chain hoist. 2. *The minimum distance between books slightly differs according to the size of the applicable traverse rail. 3. The single-phase traverse motor has E-class insulation, and the short time rating is 15 min. 4. The power cord of 0.5 m extending from the trolley (3-core; 1 pc for earth) is supplied. 5. Specifications and dimensions are subject to change without notice.

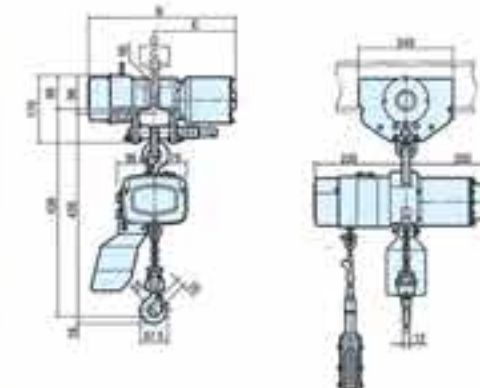
Three-phase, 200 V ~ 440 V Electric Chain Hoist with Electric Trolley



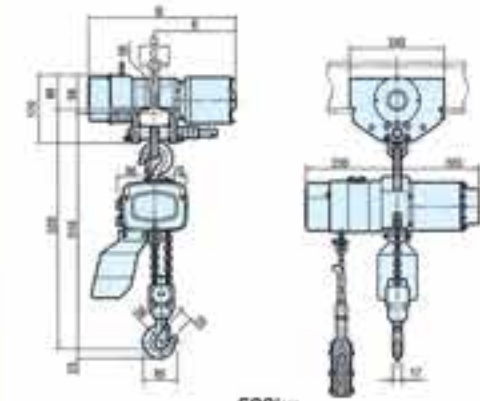
for 150kg and 250kg

for 500kg

DIMENSIONS



150kg · 250kg



500kg

Note-1: The B, C, E dimensions change according to the width of the applicable rail.

	Rail width D (mm)		
	75	100	125
B	375	400	425
C	24	49	74
E	207	219.5	232

Specifications for Three-phase Electric Chain Hoist with Electric Trolley

Model	Rated load (kg)	Voltage (V)	Minimum distance between hooks* (mm)	Standard lift (m)	Motor output (kW)	Lifting speed (m/min) (50Hz/60Hz)	Traverse motor output (kW)	Traversing speed (m/min) (Standard) (50/60Hz)	Traverse rail width (mm)	Minimum traverse turning radius (mm)	Minimum height of traverse rail (mm)	Net weight (kg)
αCM-015	150	200~440	426	3	0.55	9 11 0.3		20/24	75	900	100	36
αCM-025	250	200~440	426	3	0.55	9 11 0.3		10/12	100	900	100	36
αCM-050	500	200~440	516	3	0.55	4.5 5.5 0.4			125	1100	125	39.5

Notes: 1. See page 3-4 for the specifications for small electric chain hoist. 2. Use three-phase power source. 3. The power cord of 0.5 m extending from the trolley (4-core; 1 pc for earth) is supplied. 4. Put the low-speed type "S" between the model symbol when specifying low traversing speed (example: ○○○S-○○); when there is no specification, the speed will be normal (standard). 5. The three-phase traverse motor has E-class insulation, and the short time rating is 30 min. 6. Specifications and dimensions are subject to change without notice.

Single-phase, and Three-phase Electric Chain Hoist with Geared Trolley

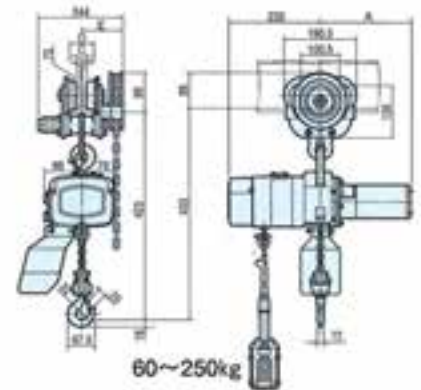


for 60kg and 250kg

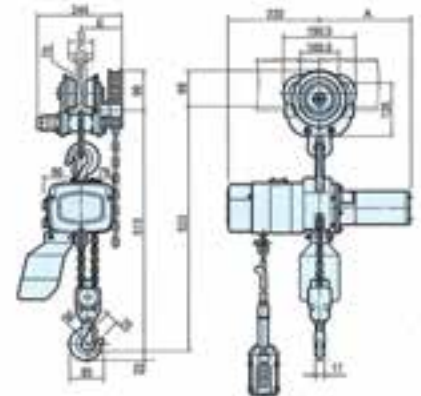


for 500kg

■ DIMENSIONS



60~250kg



500kg

Note-1: Length A Changes according to the power source used.

Motor output	A (mm)
Single phase 300 watts	177
Single phase 600 watts	233
Three-phase 550 watts	203

Note-2: The C, E dimensions change according to the width of the applicable rail.

	Rail width D (mm)		
	75	100	125
C	35	60	85
E	118.5	131	143.5

Specifications for Single-phase and Three-phase Electric Chain Hoist with Geared Trolley

Model		Rated load (kg)	Voltage (Single-phase) (V)	Standard lift (m)	Motor output (kW)	Lifting speed (m/min)		Short time rating (min)	Minimum distance between hooks (mm)	Traversing manual power (kg)	Applicable traverse rail width (mm)	Minimum traverse turning radius (mm)	Minimum height of traverse rail (mm)	Net-weight (kg)
100~115V	200~230V					50Hz	60Hz							
αMSG - 006	αMHG - 006	60	100/115 - 200/230	3	0.3	13		25	423	2	75 • 100 • 125	900	125	26.5
αMSVG - 006	αMHVG - 006	60	100/115 - 200/230	3	0.3	1~13		25						27
αMSBG - 006	αMHBG - 006	60	100/115 - 200/230	3	0.3	Low 5 High 13		25						26.5
αMSG - 01	αMHG - 01	100	100/115 - 200/230	3	0.3	13		25						26.5
αMSVG - 01	αMHVG - 01	100	100/115 - 200/230	3	0.3	1~13		25						27
αMSBG - 01	αMHBG - 01	100	100/115 - 200/230	3	0.3	Low 4 High 13		25						26.5
—	αMCG - 015	150	3-phase 200~440V	3	0.55	9	11	40						30
αMSG - 016	αMHG - 016	160	100/115 - 200/230	3	0.6	15		25						28.5
αMSVG - 016	αMHVG - 016	160	100/115 - 200/230	3	0.6	1~15		25						29
αMSBG - 016	αMHBG - 016	160	100/115 - 200/230	3	0.6	Low 4 High 15		25						28.5
—	αMCG - 025	250	3-phase 200~440V	3	0.55	9	11	40						30
αMSG - 025	αMHG - 025	250	100/115 - 200/230	3	0.6	10		25						28.5
αMSVG - 025	αMHVG - 025	250	100/115 - 200/230	3	0.6	1~10		25	29					
αMSBG - 025	αMHBG - 025	250	100/115 - 200/230	3	0.6	Low 4 High 10		25	28.5					
—	αMCG - 050	500	3-phase 200~440V	3	0.55	4.5	5.5	40	33.5					
αMSG - 050	αMHG - 050	500	100/115 - 200/230	3	0.6	5		25	32					
αMSVG - 050	αMHVG - 050	500	100/115 - 200/230	3	0.6	0.5~5		25	32.5					
αMSBG - 050	αMHBG - 050	500	100/115 - 200/230	3	0.6	Low 2 High 5		25	32					

Notes: 1. See page 3-4 for the specifications for small electric chain hoist.

● Specifications and dimensions are subject to change without notice.

Single-phase and Three-phase, Electric Chain Hoist with Plain Trolley

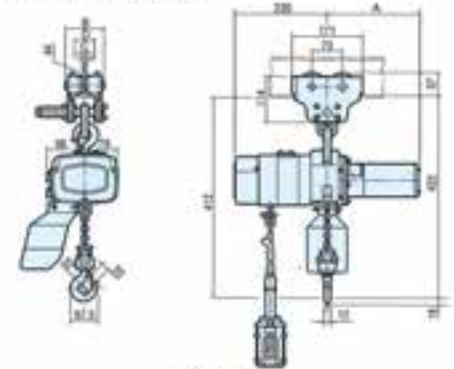


for 60kg ~ 250kg

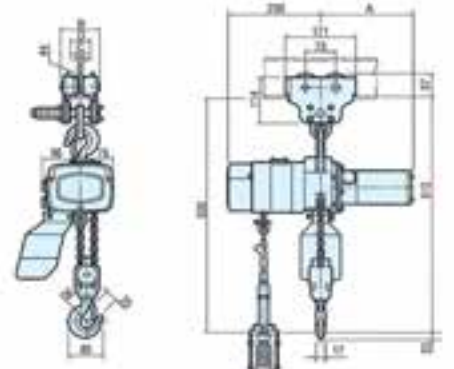


for 500kg

■ DIMENSIONS



60~250kg



500kg

Note-1: Length A Changes according to the power source used.

Motor output	A (mm)
Single phase 300 watts	177
Single phase 600 watts	233
Three-phase 550 watts	203

Note-2: The B, C dimensions change according to the width of the applicable rail.

	Rail width D (mm)			
	50	75	100	125
B	135	122.5	110	97.5
C	14	30	64	89

Specifications for Single-phase and Three-phase Electric Chain Hoist with Plain Trolley

Model		Rated load (kg)	Voltage (Single-phase) (V)	Standard lift (m)	Motor output (kW)	Lifting speed (m/min)		Short time rating (min)	Minimum distance between hooks (mm)	Applicable traverse rail width (mm)	Minimum traverse turning radius (mm)	Minimum height of traverse rail (mm)	Net-weight (kg)
100~115V	200~230V					50Hz	60Hz						
αSP - 006	αHP - 006	60	100/115 - 200/230	3	0.3	13		25	412	50 • 75 • 100 • 125	900	100	19.2
αSVP - 006	αHVP - 006	60	100/115 - 200/230	3	0.3	1~13		25					19.7
αSBP - 006	αHBP - 006	60	100/115 - 200/230	3	0.3	Low 5 High 13		25					19.2
αSP - 01	αHP - 01	100	100/115 - 200/230	3	0.3	13		25					19.2
αSVP - 01	αHVP - 01	100	100/115 - 200/230	3	0.3	1~13		25					19.7
αSBP - 01	αHBP - 01	100	100/115 - 200/230	3	0.3	Low 4 High 13		25					19.2
—	αCP - 015	150	3-phase 300~480V	3	0.55	9	11	40					22.7
αSP - 016	αHP - 016	160	100/115 - 200/230	3	0.6	15		25					21.2
αSVP - 016	αHVP - 016	160	100/115 - 200/230	3	0.6	1~15		25					21.7
αSBP - 016	αHBP - 016	160	100/115 - 200/230	3	0.6	Low 4 High 15		25					21.2
—	αCP - 025	250	3-phase 300~480V	3	0.55	9	11	40					22.7
αSP - 025	αHP - 025	250	100/115 - 200/230	3	0.6	10		25					21.2
αSVP - 025	αHVP - 025	250	100/115 - 200/230	3	0.6	1~10		25					21.7
αSBP - 025	αHBP - 025	250	100/115 - 200/230	3	0.6	Low 4 High 10		25					21.2
—	αCP - 050	500	3-phase 300~480V	3	0.55	4.5	5.5	40					26.2
αSP - 050	αHP - 050	500	100/115 - 200/230	3	0.6	5		25					502
αSVP - 050	αHVP - 050	500	100/115 - 200/230	3	0.6	0.5~5		25	25.2				
αSBP - 050	αHBP - 050	500	100/115 - 200/230	3	0.6	Low 2 High 5		25	24.7				

Notes: 1. See page 3-4 for the specifications for small electric chain hoist.

● Specifications and dimensions are subject to change without notice.



WORLD'S BEST CLASS CHAIN HOISTS

- ELECTRIC CHAIN HOIST
- MANUAL CHAIN HOIST
- APPLIED PRODUCTS
- LEVER HOIST
- LIFTING SLING



CAUTION: OPERATION MANUAL enclosed in the package and familiarise yourself with its contents.

For safe and correct use of the product, carefully read the