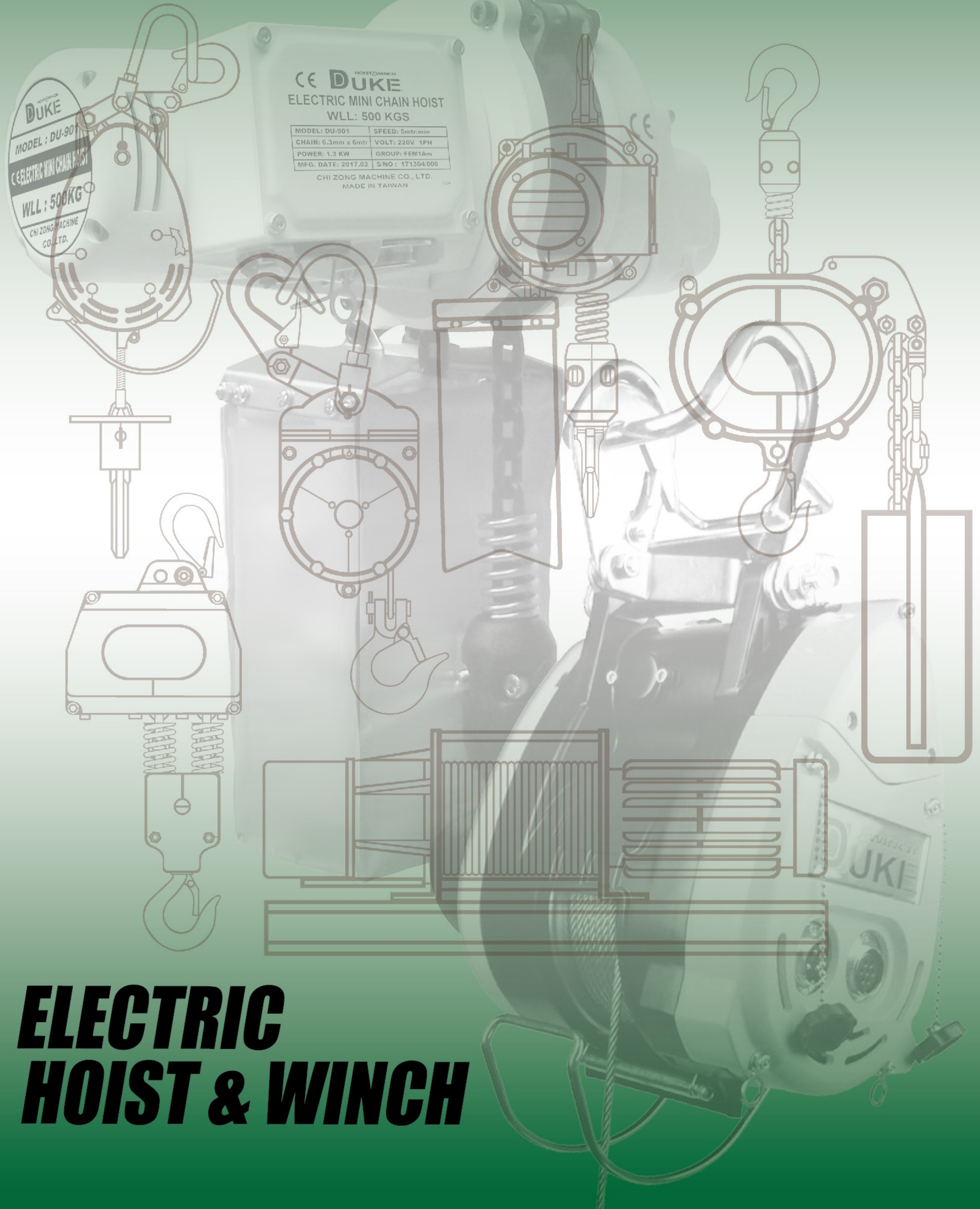




ISO-9001 TÜV CE



CONTENTS

| | |
|--|------------------|
| COMPANY INTRODUCTION | P.2 |
| ELECTRIC MINI CHAIN HOIST | P.3-P.6 |
| ELECTRIC MINI WIRE WINCH | P.7-P.10 |
| ELECTRIC WIRE WINCH | P.11-P.12 |
| ELECTRIC CHAIN HOIST | P.13-P.14 |
| ELECTRIC INVERSION CHAIN HOIST | P.15-P.16 |
| ELECTRIC MINI INVERSION CHAIN HOIST | P.17-P.18 |
| COMPACT ELECTRIC WIRE WINCH | P.19-P.20 |
| BATTERY CHAIN HOIST | P.21-P.22 |
| BATTERY WIRE WINCH | P.23-P.24 |
| COMPACT ELECTRIC CHAIN HOIST | P.25-P.26 |
| ELECTRIC TROLLEY | P.27 |

COMPANY INTRODUCTION



Chi Zong Machine Co., Ltd. was established in 1979, we have been the leading manufacturer of compact electric hoist and winch in Taiwan.
"DUKE" is the brand we are selling worldwide, while **"STRONG"** is our domestic brand in Taiwan.

Our product range as follows

AC Power: Electric Wire Rope Winch, Electric Chain Hoist

DC Power: Off-Road Winch..ATV & UTV winch

Battery Type: Battery Wire Rope Winch, Battery Chain Hoist

We also provide OEM/ODM solutions for customizations.

With strict quality control, every winch and hoist has to pass electrical and lifting tests before dispatch.

We insist using top grade electrical parts and raw materials to guarantee product quality.

DUKE products also receive a variety of patents for our superior design and innovation.

DUKE gains trust, support, and reputation from customers but will continue to consistently improve our products and services.

We work closely with distributors and retailers across the globe to make sure end users have pleasure experience using DUKE products.

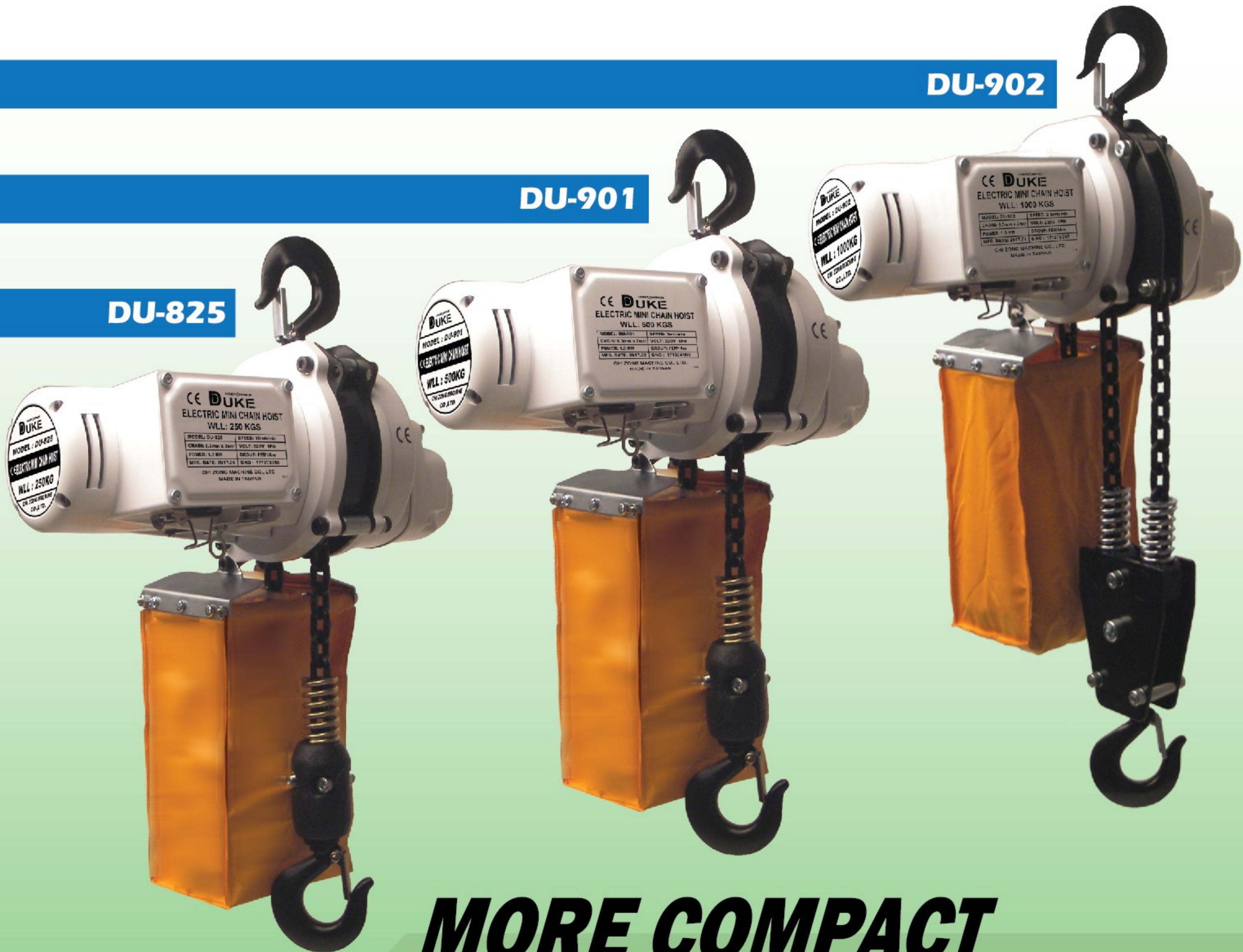


ELECTRIC MINI CHAIN HOIST

DU-902

DU-901

DU-825



MORE COMPACT
MORE POWERFUL

Specifications:

| Model | Capacity (Kg) | Power (Voltage) | | Phase | Lift (M) | Chain Falls | Speed (M/min) | | Motor (Kw) | Chain (mm) | N.W. (Kgs) | G.W. (Kgs) |
|---------------|---------------|-----------------|-----|-------|----------|-------------|---------------|------|------------|------------|------------|------------|
| | | 110 | 220 | | | | 50Hz | 60Hz | | | | |
| DU-825 | 250 | 110 | 220 | 1 | 3 | 1 | 10 | 12 | 1.3 | 6.3x19 | 19 | 23 |
| DU-901 | 500 | 110 | 220 | 1 | 3 | 1 | 5 | 6 | 1.3 | 6.3x19 | 19 | 23 |
| DU-902 | 1000 | 110 | 220 | 1 | 3 | 2 | 2.5 | 3 | 1.3 | 6.3x19 | 23 | 26 |

ELECTRIC MINI CHAIN HOIST

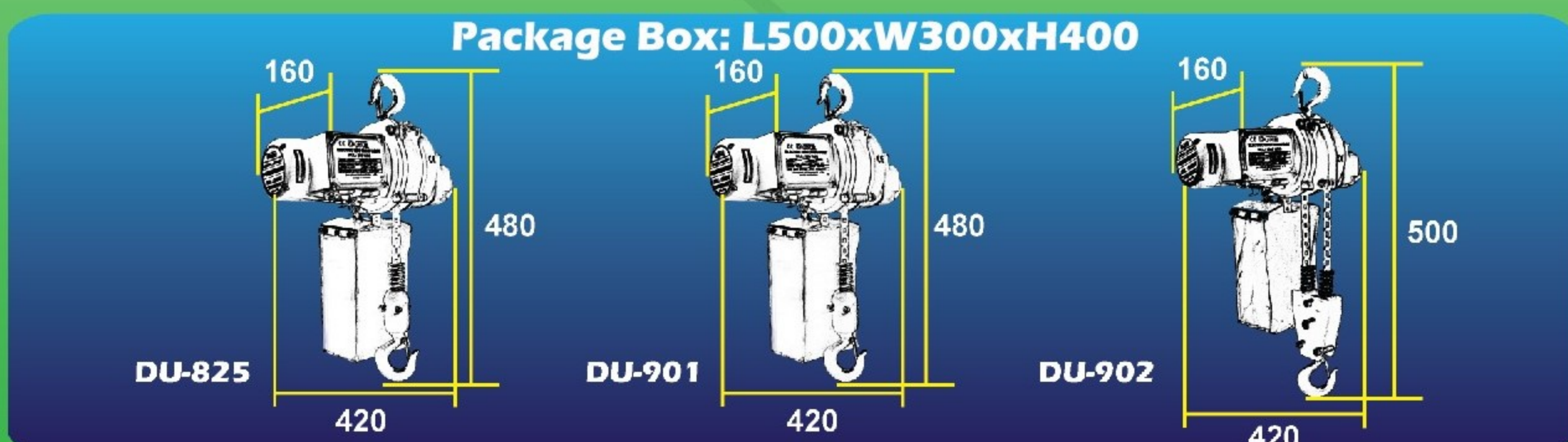
Applications :

Fit for various workplace applications, such as general factories, warehouse, construction, plumbing, and agriculture industries. Designed for unique rigging applications encountered at small venues, lightweight, quiet, and portable.

Features :

- 1. The motor system is applied with industrial series wound carbon brush motor, the enameled wires in the motor with heat resistance up to 180°C which is good at heavy duty works .**
- 2. Twin brake system: unique mechanical ratchet gear brake and resistor brake. When power failure or breakdown occurs, brake system is immediately started up for safety purposes.**
- 3. Based on direct control system, simplify wirings. Low breakdown rate, safe and stable, easy to main & maintain.**
Equipped with miniature circular connector which is convenient and compact.
- 4. Chain is genuine imported from Japan FEC company which is manufactured by this reputed manufacturer in this field worldwide, chain is made of alloy steel material with 80 grade and with four times safety factor.**
- 5. Equipped with most reliable, efficient, durable planetary reduction gear train. The planetary gear train contains a pair of idler gear made by alloy steel with heat treatment, provides both strength and smooth operation with good resistance to torque loads. Oil bath gear box to prevent overheat from brake device.**
- 6. High strength steel plate to support the frame of hoist.**
Applied with electric coating with good rust resistance, good for operation under badly environment when temperature is from minus 10 degree Celsius to plus 40 degrees Celsius.
- 7. Motor and gear housings are made of aluminum alloy formed by die-casting with high tenacity and machined by computerized CNC lathe; high precision in assembly, low noise during operation. High grade powder coating on hoist housings provides elegant looking. Ingress protection rating: IP54, and with waterproof cover as an option for outdoor usage.**
- 8. Upper & lower hook unit is made of alloy steel material by die-casting formation, with high strength and four times safety factor. The lower hook is also with safety latch to ensure safety of lifting operations.**
- 9. Mechanical overload clutch provides protection against overloading and over tight revolving.**

Dimensions:



ELECTRIC MINI CHAIN HOIST

DU-904

DU-903



Specifications:

| Model | Capacity (Kgs) | Power (Voltage) | Phase | Lift (M) | Chain Falls | Speed (M/min) | | Motor (Kw) | Chain (mm) | N.W. (Kgs) | G.W. (Kgs) |
|---------------|----------------|-----------------|-------|----------|-------------|---------------|------|------------|------------|------------|------------|
| | | | | | | 50Hz | 60Hz | | | | |
| DU-903 | 1000 | 220 | 1 | 3 | 1 | 4 | 5 | 2.0 | 7.1x20 | 26 | 29 |
| DU-904 | 2000 | 220 | 1 | 3 | 2 | 2 | 2.5 | 2.0 | 7.1x20 | 31 | 34 |

ELECTRIC MINI CHAIN HOIST

Applications :

Fit for various workplace applications, such as general factories, warehouse, construction, plumbing, and agriculture industries. Designed for unique rigging applications encountered at small venues, lightweight, quiet, and portable.

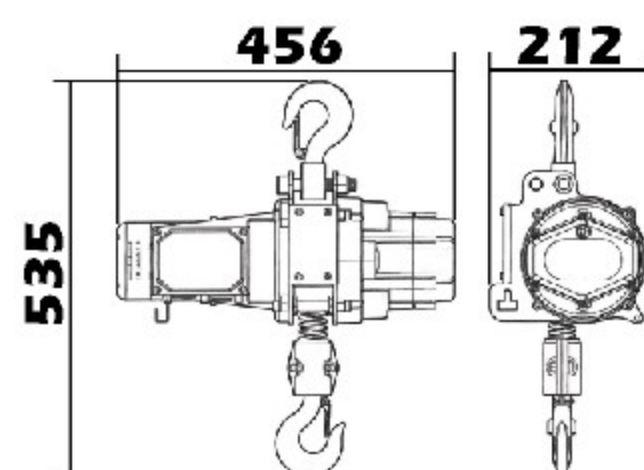
Features :

1. The motor system is applied with industrial series wound carbon brush motor, the enameled wires in the motor with heat resistance up to 180°C which is good at heavy duty works .
2. Trio brake system: unique twin mechanical ratchet gear brakes and resistor brake. When power failure or breakdown occurs, brake system is immediately started up for safety purposes.
3. Based on direct control system, simplify wirings. Low breakdown rate, safe and stable, easy to main & maintain.
Equipped with miniature circular connector which is convenient and compact.
4. Chain is genuine imported from Japan FEC company which is manufactured by this reputed manufacturer in this field worldwide, chain is made of alloy steel material with 80 grade and with four times safety factor.
5. Equipped with most reliable, efficient, durable planetary reduction gear train. The planetary gear train contains 4 idler gears made by alloy steel with heat treatment, provides both strength and smooth operation with good resistance to torque loads. Oil bath gear box to prevent overheat from brake device.
6. High strength steel plate to support the frame of hoist.
Applied with electric coating with good rust resistance, good for operation under badly environment when temperature is from minus 15 degree Celsius to plus 65 degrees Celsius.
7. Motor and gear housings are made of aluminum alloy formed by die-casting with high tenacity and machined by computerized CNC lathe; high precision in assembly, low noise during operation. High grade powder coating on hoist housings provides elegant looking. Ingress protection rating: IP54, and with waterproof cover as an option for outdoor usage.
8. Upper & lower hook unit is made of alloy steel material by die-casting formation, with high strength and four times safety factor. The lower hook is also with safety latch to ensure safety of lifting operations.
9. Mechanical overload clutch provides protection against overloading and over tight revolving.
10. Optional upper limiter, electric overload device, and low voltage control are available for request.

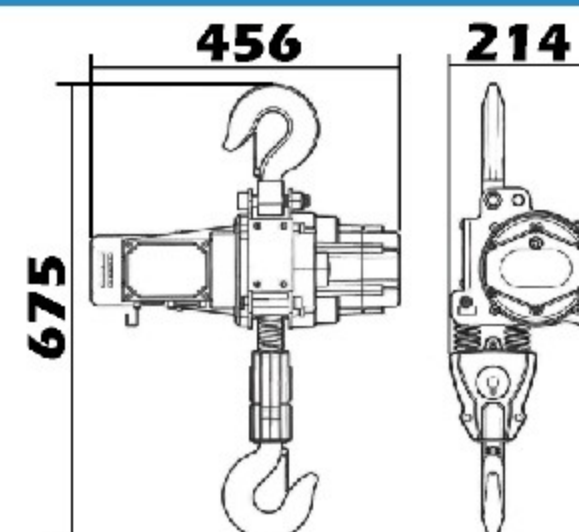
Dimensions:

Package Box: L521 x W355 x H398 (mm)

DU-903



DU-904



ELECTRIC MINI WIRE WINCH



DU-75A



DU-230A



DU-300A



DU-500A



DU-160B



DU-160A

HIGH EFFICIENCY

SAVE TIME

LESS EFFORT

ONE-HOLE

ELECTRIC MINI WIRE WINCH



DU-160TH



**DU-230TH
DU-260L**



**DU-300TH
DU-330L**



**DU-500TH
DU-500L**

**LIGHTWEIGHT
EASY TO CARRY**

TWO-HOLE

ELECTRIC MINI WIRE WINCH

Applications:

Duke Mini Winch is particularly designed for building sites, commercial and domestic, as well as various construction workplaces, such as warehousing, buildings, scaffoldings, storage areas, factories in general, as well as domestic applications.

Features:

1. **Compact and Lightweight Design:** Easy carry and installation.
2. **Upper and Lower Limiters:** To prevent from reverse and over roll of wire rope.
3. **Dual Brakes:** Dynamic and mechanical brakes provides instant and safe braking.
4. **Oil Bath Gear Box:** To prevent overheat from brake device.
5. **Swivel Lower Hook:** Made by forging formation and installed with a safety latch.
6. **Plug Connections:** 7mtr Pendant control and 5mtr power lead are with circular connector, easily attached and removed.
7. **Capacitor and Resistors:** To reduce contact sparkle and protect electric devices.
8. **Emergency Stop:** Installed in TH and L models pendant control as standard

Remark:



TH Models

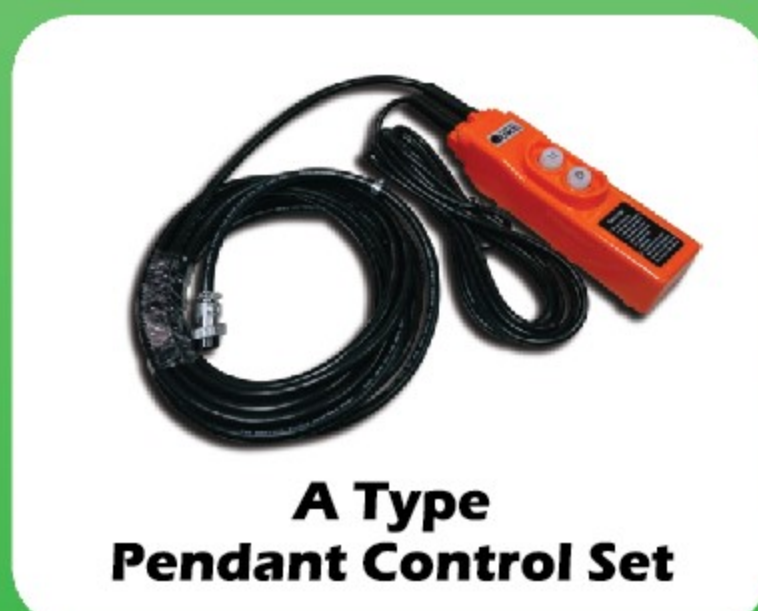
Direct Control System



L Models

Indirect Control System
(Electromagnetism)

Accessories:



**A Type
Pendant Control Set**



**TH Type & L Type
Pendant Control Set**



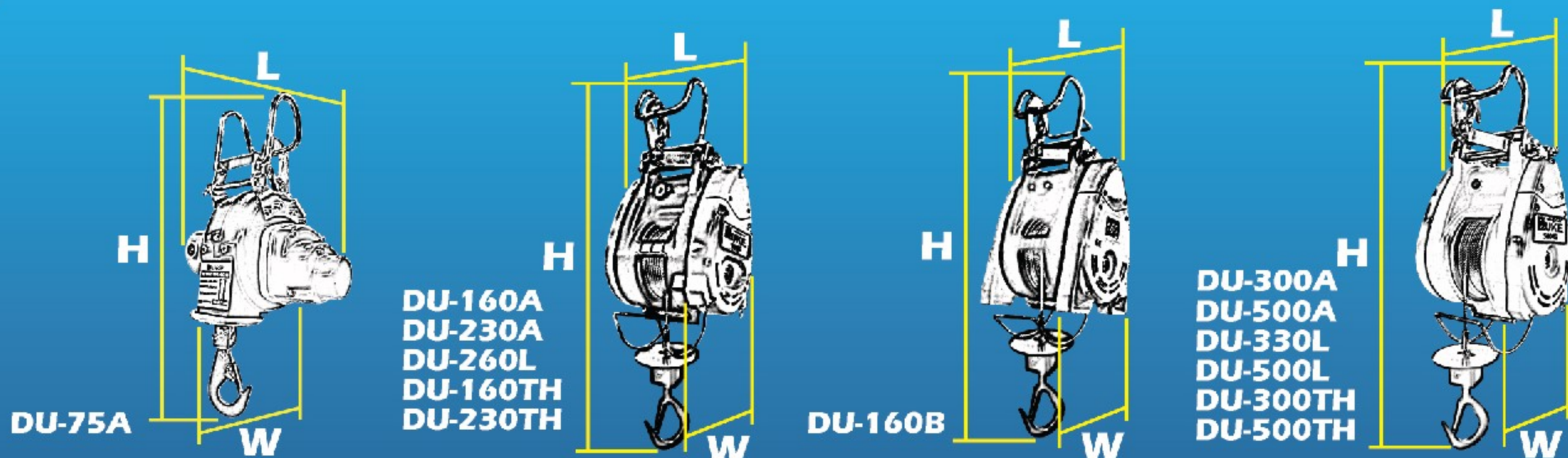
**TH Type & L Type
Power Cable Set**

ELECTRIC MINI WIRE WINCH

Specifications:

| Model | Capacity (Kg) | Power (Voltage) | | Phase | Wire Rope mm/M | | Speed (M/min) | | Motor (Kw) |
|----------|---------------|-----------------|-----|-------|----------------|------|---------------|------|------------|
| | | 110 | 220 | | 4/30 | 5/30 | 50Hz | 60Hz | |
| DU-75A | 75 | 110 | 220 | 1 | 4/30 | | 27 | 32 | 0.3 |
| DU-160A | 160 | 110 | 220 | 1 | 4/45 | 5/30 | 19 | 23 | 1.3 |
| DU-160B | 160 | 110 | 220 | 1 | 4/45 | 5/30 | 19 | 23 | 1.3 |
| DU-230A | 230 | 110 | 220 | 1 | 4/45 | 5/30 | 19 | 23 | 1.3 |
| DU-300A | 300 | 110 | 220 | 1 | 5/60 | 6/40 | 12 | 15 | 1.3 |
| DU-500A | 500 | 110 | 220 | 1 | 6/40 | 7/30 | 11 | 11 | 2.0 |
| DU-260L | 260 | 110 | 220 | 1 | 4/45 | 5/30 | 19 | 23 | 1.3 |
| DU-330L | 330 | 110 | 220 | 1 | 5/60 | 6/40 | 12 | 15 | 1.3 |
| DU-500L | 500 | 110 | 220 | 1 | 6/40 | 7/30 | 11 | 11 | 2.0 |
| DU-160TH | 160 | 110 | 220 | 1 | 4/45 | 5/30 | 19 | 23 | 1.3 |
| DU-230TH | 230 | 110 | 220 | 1 | 4/45 | 5/30 | 19 | 23 | 1.3 |
| DU-300TH | 300 | 110 | 220 | 1 | 5/60 | 6/40 | 12 | 15 | 1.3 |
| DU-500TH | 500 | 110 | 220 | 1 | 6/40 | 7/30 | 11 | 11 | 2.0 |

Dimensions:



| Model | L (mm) | W (mm) | H (mm) | Package Box | | | Cu.Ft | N.W (Kgs) | G.W (Kgs) |
|----------|--------|--------|--------|-------------|-------|-------|-------|-----------|-----------|
| | | | | L(mm) | W(mm) | H(mm) | | | |
| DU-75A | 280 | 180 | 470 | 400 | 300 | 260 | 1.1' | 12 | 14 |
| DU-160A | 240 | 180 | 660 | 530 | 260 | 360 | 1.7' | 22 | 23 |
| DU-160B | 240 | 210 | 470 | 530 | 260 | 360 | 1.7' | 22 | 23 |
| DU-230A | 240 | 180 | 660 | 530 | 260 | 360 | 1.7' | 22 | 23 |
| DU-300A | 240 | 210 | 670 | 530 | 260 | 360 | 1.7' | 29 | 30 |
| DU-500A | 240 | 210 | 670 | 530 | 260 | 360 | 1.7' | 29 | 30 |
| DU-260L | 240 | 180 | 660 | 530 | 260 | 360 | 1.7' | 25 | 26 |
| DU-330L | 240 | 210 | 670 | 530 | 260 | 360 | 1.7' | 30 | 31 |
| DU-500L | 240 | 210 | 670 | 530 | 260 | 360 | 1.7' | 29 | 30 |
| DU-160TH | 240 | 180 | 660 | 530 | 260 | 360 | 1.7' | 22 | 23 |
| DU-230TH | 240 | 180 | 660 | 530 | 260 | 360 | 1.7' | 22 | 23 |
| DU-300TH | 240 | 210 | 670 | 530 | 260 | 360 | 1.7' | 29 | 30 |
| DU-500TH | 240 | 210 | 670 | 530 | 260 | 360 | 1.7' | 29 | 30 |

ELECTRIC WIRE WINCH

DU-212
DU-2K
DU-3K



DU-213
DU-213L
DU-214
DU-214L
DU-215
DU-215L



DU-202
DU-204
DU-221H
DU-205
DU-208



DU-223H
DU-210



Specifications:

| Model | Capacity (Kg) | Power (Voltage) | | | | Wire Rope mm/M | Speed (M/min) | | Motor (Hp) |
|----------------|---------------|-----------------|--------|-----|-----|----------------|---------------|------|------------|
| | | 1Phase | 3Phase | | | | 50Hz | 60Hz | |
| DU-202 | 200 | 220 | 220 | 380 | 440 | 6 / 30 | 15 | 18 | 0.5 |
| DU-204 | 250 | 220 | 220 | 380 | 440 | 6 / 30 | 15 | 18 | 0.8 |
| DU-221H | 250 | 220 | 220 | 380 | 440 | 7 / 30 | 33 | 40 | 1.5 |
| DU-205 | 300 | 220 | 220 | 380 | 440 | 7 / 30 | 15 | 18 | 1 |
| DU-208 | 350 | 220 | 220 | 380 | 440 | 7 / 30 | 15 | 18 | 1.5 |
| DU-223H | 350 | 220 | 220 | 380 | 440 | 7 / 45 | 38 | 45 | 2 |
| DU-210 | 500 | 220 | 220 | 380 | 440 | 8 / 45 | 21 | 25 | 2 |
| DU-212 | 1000 | | 220 | 380 | 440 | 10 / 45 | 12 | 15 | 3 |
| DU-2K | 2000 | | 220 | 380 | 440 | 12 / 45 | 12 | 15 | 5 |
| DU-213 | 2000 | | 220 | 380 | 440 | 12 / 70 | 12 | 15 | 5 |
| DU-213L | 2000 | | 220 | 380 | 440 | 12 / 200 | 12 | 15 | 5 |
| DU-3K | 3000 | | 220 | 380 | 440 | 14 / 45 | 12 | 15 | 7.5 |
| DU-214 | 3000 | | 220 | 380 | 440 | 14 / 70 | 12 | 15 | 7.5 |
| DU-214L | 3000 | | 220 | 380 | 440 | 14 / 150 | 12 | 15 | 7.5 |
| DU-215 | 5000 | | 220 | 380 | 440 | 16 / 70 | 12 | 15 | 10 |
| DU-215L | 5000 | | 220 | 380 | 440 | 16 / 120 | 12 | 15 | 10 |

ELECTRIC WIRE WINCH

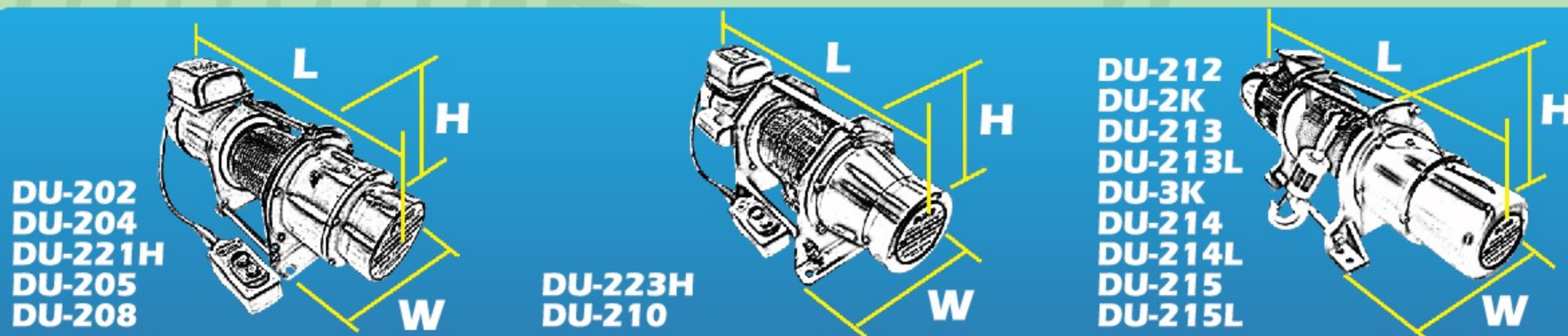
Applications:

Fit for various workplace applications, such as general factories, warehouse, construction, plumbing, and agriculture industries.

Features:

1. Traditional table winch, high durability for both lifting and pulling applications.
2. Induction motor provides high duty work and quiet running volume.
3. Heavy duty high efficiency ball bearing on all running surfaces.
4. Fabricated steel drum.
5. Planetary gearing design guarantees a powerful loadability and durable lifetime usage.
6. Enclosed drum flange to prevent rope from trapped between drum and support castings.
7. 200kg - 500kg winches are eligible to install with an upper hanger for overhung applications.
8. 2000kg - 5000kg winches are equipped with double-brake system to guarantee high safety factor.
9. 2000kg - 5000kg winches are equipped with electromagnetic control box with 10mtr pendant control cable.

Dimensions:



| Model | L (mm) | W (mm) | H (mm) | Package Box | | | Cu.Ft | N.W (Kgs) | G.W (Kgs) |
|---------|-----------|-----------|-----------|-------------|-------|-------|-------|--------------|--------------|
| | | | | L(mm) | W(mm) | H(mm) | | | |
| DU-202 | 520 | 201 | 233 | 600 | 250 | 280 | 1.4' | 32 | 33 |
| DU-204 | 525 | 201 | 233 | 640 | 250 | 310 | 1.7' | 34 | 36 |
| DU-221H | 585 | 201 | 233 | 640 | 250 | 310 | 1.7' | 41 | 45 |
| DU-205 | 580 | 201 | 233 | 640 | 250 | 310 | 1.7' | 38 | 39 |
| DU-208 | 585 | 201 | 233 | 640 | 250 | 310 | 1.7' | 42 | 43 |
| DU-223H | 675 | 220 | 283 | 740 | 320 | 330 | 2.7' | 66 | 71 |
| DU-210 | 710 | 310 | 285 | 800 | 400 | 480 | 3.5' | 76 | 81 |
| DU-212 | 1120 | 385 | 340 | 1160 | 450 | 400 | 7.4' | 152 | 175 |
| DU-2K | 1190 | 400 | 365 | 1230 | 450 | 550 | 10.8' | 171 | 183 |
| DU-213 | 1290 | 590 | 520 | 1350 | 610 | 690 | 20.1' | 364 | 392 |
| DU-213L | 1415 | 590 | 520 | 1475 | 610 | 690 | 20.1' | 436 | 464 |
| DU-3K | 1240 | 400 | 365 | 1290 | 450 | 550 | 11.3' | 193 | 205 |
| DU-214 | 1350 | 590 | 520 | 1380 | 610 | 690 | 20.6' | 375 | 405 |
| DU-214L | 1475 | 590 | 520 | 1505 | 610 | 690 | 20.6' | 442 | 472 |
| DU-215 | 1450 | 590 | 520 | 1500 | 450 | 690 | 22.3' | 395 | 426 |
| DU-215L | 1575 | 590 | 520 | 1820 | 690 | 850 | 22.3' | 453 | 484 |

ELECTRIC CHAIN HOIST

DU-750

DU-905

DU-906



Accessories:



Pendant Control Set



Chain Bag

Specifications:

| Model | Capacity (Kg) | Power (Voltage) | | | Phase | Lift (M) | Chain Falls | Speed (M/min) | | Motor (Hp) | Chain (mm) | N.W. (Kgs) | G.W. (Kgs) |
|---------------|---------------|-----------------|-----|-----|-------|----------|-------------|---------------|------|------------|------------|------------|------------|
| | | 220 | 380 | 440 | | | | 50Hz | 60Hz | | | | |
| DU-750 | 750 | 220 | 380 | 440 | 3 | 3 | 1 | 6 | 7 | 1.5 | 7.1x20 | 45 | 55 |
| DU-905 | 1000 | 220 | 380 | 440 | 3 | 3 | 1 | 6 | 7 | 2 | 7.1x20 | 45 | 55 |
| DU-906 | 2000 | 220 | 380 | 440 | 3 | 3 | 2 | 3 | 3.5 | 2 | 7.1x20 | 55 | 66 |

ELECTRIC CHAIN HOIST

Application:

Duke electric chain hoist is particularly designed for various workplace applications, such as general factories, warehouse, construction, plumbing, and agriculture industries.

Features:

Motor System :

1. Applied with industrial grade high efficiency induction motor.
2. Enameled wires with heat resistance up to 180 degrees Celsius, which is specially designed for heavy duty works.

Brake System :

Applied with high friction coefficient electromagnetic disc brake and no adjustment required, which provides smooth and reliable operation.

Electric Control System :

Equipped with 24V low voltage control (electromagnetism) for safety purposes.

Safety System :

1. Upper and lower limiters are to secure hoist body and load object.
2. A reverse phase relay that protects the hoist from incorrect wiring.
3. Electric overload device provides protection against overloading by cutting off the power immediately once overloading occurs.

Load Chain:

Directly supplied from reputable FEC Japan, which is made of alloy steel material in grade 80 and four times safety factor.

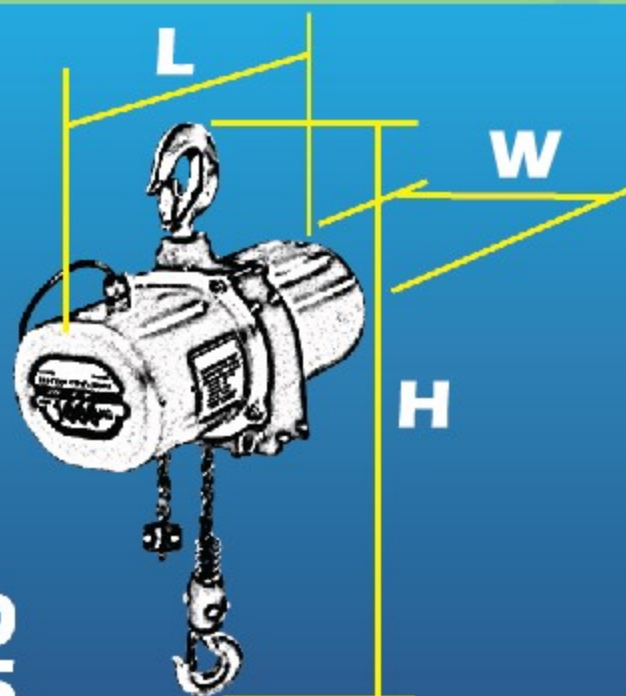
Gear System :

Planetary gearing design guarantees a powerful loadability and durable usage.

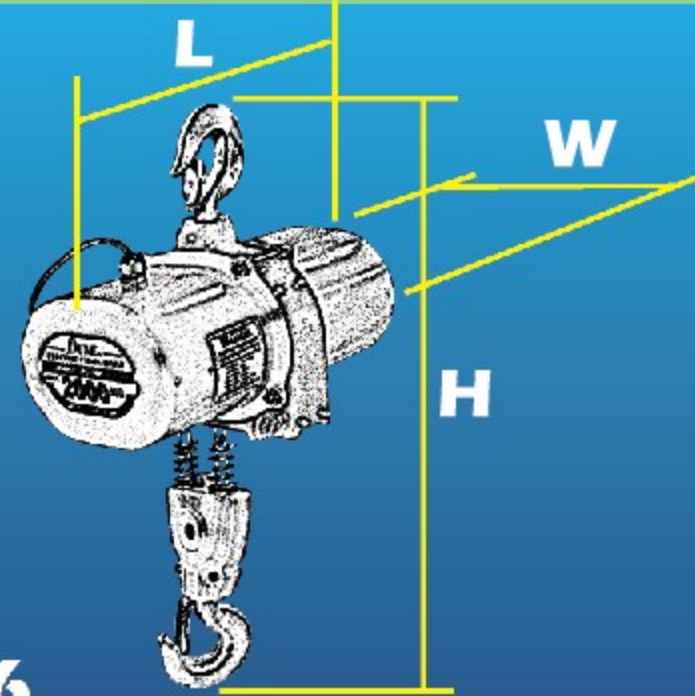
Upper Lower Hook Unit:

1. Made of alloy steel material by hot forging formation in four times safety factor.
2. A ball bearing is applied in the lower hook against 360 degree rotation.

Dimensions:



**DU-750
DU-905**



DU-906

| Model | L (mm) | W (mm) | H (mm) | Package | | | Cu.Ft |
|---------------|-----------|-----------|-----------|---------|-------|-------|-------|
| | | | | L(mm) | W(mm) | H(mm) | |
| DU-750 | 430 | 290 | 600 | 520 | 460 | 530 | 4.4' |
| DU-905 | 430 | 290 | 600 | 520 | 460 | 530 | 4.4' |
| DU-906 | 430 | 290 | 600 | 520 | 460 | 530 | 4.4' |

ELECTRIC INVERSION CHAIN HOIST



Accessories:



Specifications:

| Model | Capacity (Kg) | Power (Voltage) | | | Phase | Lift (M) | Chain Falls | Speed (M/min) | | Motor (Hp) | Chain (mm) |
|----------------|---------------|-----------------|-----|-----|-------|----------|-------------|---------------|------|------------|------------|
| | | 220 | 380 | 440 | | | | 50Hz | 60Hz | | |
| CH-1000 | 1000 | 220 | 380 | 440 | 3 | Excluded | 1 | 5 | 6 | 2 | 7.1x20 |
| CH-2000 | 2000 | 220 | 380 | 440 | 3 | Excluded | 2 | 3 | 3.5 | 2 | 7.1x20 |

ELECTRIC INVERSION CHAIN HOIST

Application:

Duke inversion chain hoists are specially designed for stage and concert applications (motor down), such as stage stereo, lighting, show banner, campaign activities, truss rigging; while regular rigging applications (motor up) are also suitable.

Features:

Motor System :

1. Applied with industrial grade high efficiency induction motor.
2. Enameled wires with heat resistance up to 180 degrees Celsius, which is specially designed for heavy duty works.

Brake System :

Applied with high friction coefficient electromagnetic disc brake and no adjustment required, which provides smooth and reliable operation.

Safety System:

1. Clutch device to secure overload usage.
2. A reverse phase relay that protects the hoist from incorrect wiring.
3. Mechanical overload clutch provides protection against overloading and over tight revolving.

Connector:

Equipped with European detachable coupler which is convenient and compact.

Load Chain:

Directly supplied from reputable FEC Japan, which is made of alloy steel material in grade 80 and four times safety factor.

Gear System :

Transmission gearing design guarantees a powerful loadability and durable usage.

Upper Lower Hook Unit:

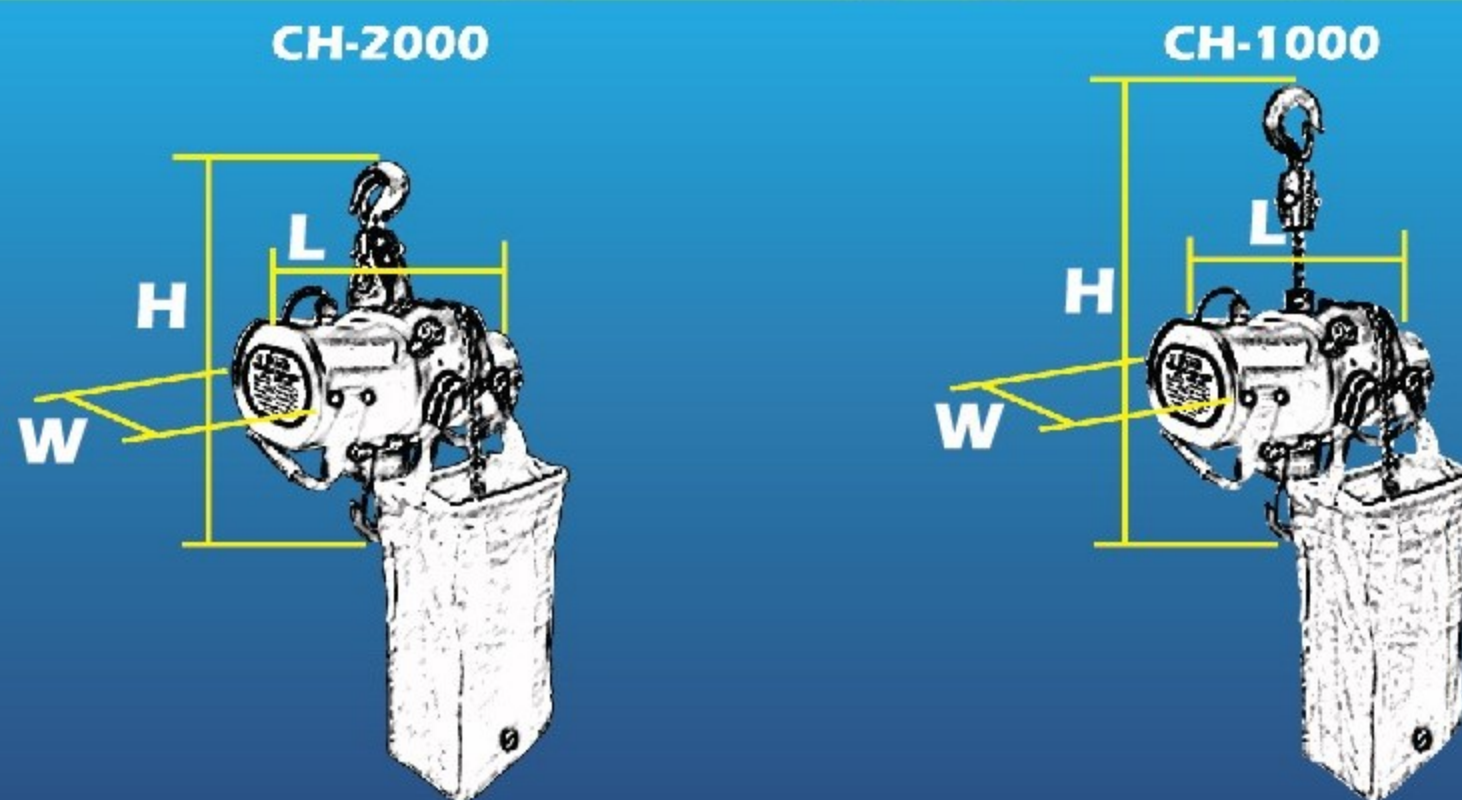
1. Made of alloy steel material by hot forging formation in four times safety factor.
2. A ball bearing is applied in the upper hook against 360 degree rotation.

Flight Case:

It is available for optional aluminum case to load hoist unit for travel purpose, such package option is professional, protection hoist and convenient for transportation.

Multi-Channel Controller:

2-Channel pendant controller and 4-Channel synchronous controller are available upon request.



| Model | L (mm) | W (mm) | H (mm) | Package Box | | | Cu.Ft | N.W (Kgs) | G.W (Kgs) |
|---------|--------|--------|--------|-------------|-------|-------|-------|-----------|-----------|
| | | | | L(mm) | W(mm) | H(mm) | | | |
| CH-1000 | 430 | 290 | 600 | 530 | 420 | 470 | 3.7 | 45 | 48 |
| CH-2000 | 430 | 290 | 600 | 530 | 420 | 470 | 3.7 | 53 | 56 |

ELECTRIC MINI INVERSION CHAIN HOIST



Accessories:



Specifications:

| Model | Capacity (Kg) | Power (Voltage) | | Phase | Lift (M) | Chain Falls | Speed (M/min) | | Motor (Kw) | Chain (mm) |
|----------------|---------------|-----------------|-----|-------|----------|-------------|---------------|------|------------|------------|
| | | 110 | 220 | | | | 50Hz | 60Hz | | |
| DH-500 | 500 | 110 | 220 | 1 | Excluded | 1 | 5 | 6 | 1.3 | 6.3x19 |
| DH-1000 | 1000 | 110 | 220 | 1 | Excluded | 2 | 2.5 | 3 | 1.3 | 6.3x19 |

ELECTRIC MINI INVERSION CHAIN HOIST

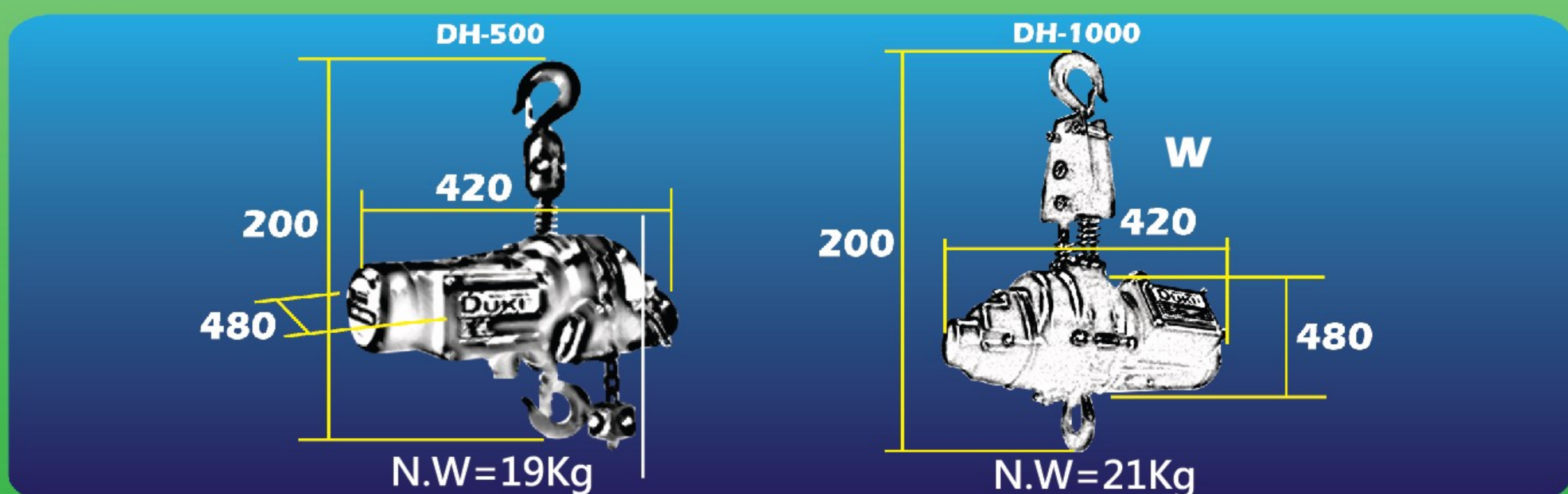
Application:

Duke inversion chain hoists are specially designed for stage and concert applications (motor down), such as stage stereo, lighting, show banner, campaign activities, truss rigging; while regular rigging applications (motor up) are also suitable.

Features:

1. The motor system is applied with industrial series wound carbon brush motor, the enameled wires in the motor with heat resistance up to 180°C which is good at heavy duty works .
2. Twin brake system: unique mechanical ratchet gear brake and resistor brake. When power failure or breakdown occurs, brake system is immediately started up for safety purposes.
3. Based on direct control system, simplify wirings. Low breakdown rate, safe and stable, easy to main & maintain. Equipped with European detachable coupler which is convenient and compact.
4. Mechanical overload clutch provides protection against overloading and over tight revolving.
5. Chain is genuine imported from Japan FEC company which is manufactured by this reputed manufacturer in this field worldwide, chain is made of alloy steel material with 80 grade and with four times safety factor.
6. Equipped with most reliable, efficient, durable planetary reduction gear train. The planetary gear train contains a pair of idler gear made by alloy steel with heat treatment, provides both strength and smooth operation with good resistance to torque loads. Oil bath gear box to prevent overheat from brake device.
7. High strength steel plate to support the frame of hoist. Applied with electric coating with good rust resistance, good for operation under badly environment when temperature is from minus 10 degree Celsius to plus 40 degrees Celsius.
8. Motor and gear housings are made of aluminum alloy formed by die-casting with high tenacity and machined by computerized CNC lathe; high precision in assembly, low noise during operation. High grade powder coating on hoist housings provides elegant looking. Ingress protection rating: IP54, and with waterproof cover as an option for outdoor usage.
9. Upper & lower hook unit is made of alloy steel material by die-casting formation, with high strength and four times safety factor. The lower hook is also with safety latch to ensure safety of lifting operations.
10. It is available for optional aluminum case to load hoist unit for travel purpose, such package option is professional, protection hoist and convenient for transportation.

Dimensions:



COMPACT ELECTRIC WIRE WINCH



**DU-300S
DU-500S**

HIGH PERFORMANCE



Accessories:



Specifications:

| Model | Capacity (Kg) | Power (Voltage) | | Phase | Wire Rope (mm x M) | Speed (M/min) | Motor (Kw) |
|----------------|---------------|-----------------|-----|-------|--------------------|---------------|------------|
| DU-300S | 300 | 110 | 220 | 1 | 6x30 | 14 | 1.3 |
| DU-500S | 500 | 110 | 220 | 1 | 6x30 | 7 | 1.3 |

COMPACT ELECTRIC WIRE WINCH

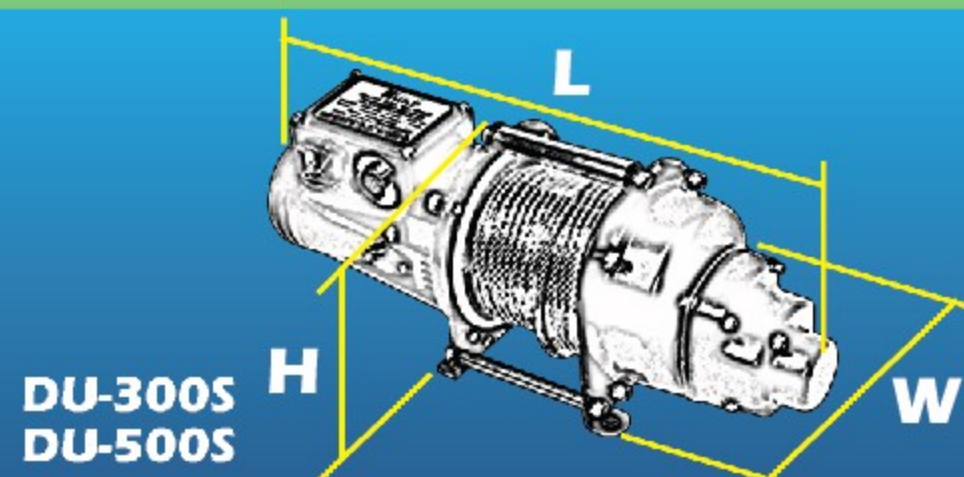
Applications :

Fit for various workplace applications, such as general factories, warehouse, construction, plumbing, and agriculture industries. Designed for unique rigging applications encountered at small venues, lightweight, quiet, and portable. Reliable for vertical lifting and horizontal pulling applications.

Features :

1. The motor system is applied with industrial series wound carbon brush motor, the enameled wires in the motor with heat resistance up to 180°C which is good at heavy duty works .
2. Twin brake system: unique mechanical ratchet gear brake and resistor brake. When power failure or breakdown occurs, brake system is immediately started up for safety purposes.
3. Based on direct control system, simplify wirings. Low breakdown rate, safe and stable, easy to main & maintain.
Equipped with miniature circular connector which is convenient and compact.
4. Equipped with most reliable, efficient, durable planetary reduction gear train. The planetary gear train contains a pair of idler gear made by alloy steel with heat treatment, provides both strength and smooth operation with good resistance to torque loads. Oil bath gear box to prevent overheat from brake device.
5. Mechanical overload clutch provides protection against overloading and over tight revolving.
6. High strength steel plate to support the frame of hoist.
Applied with electric coating with good rust resistance, good for operation under badly environment when temperature is from minus 10 degree Celsius to plus 40 degrees Celsius.
7. Motor and gear housings are made of aluminum alloy formed by die-casting with high tenacity and machined by computerized CNC lathe; high precision in assembly, low noise during operation. High grade powder coating on hoist housings provides elegant looking. Ingress protection rating: IP54, and with waterproof cover as an option for outdoor usage.
8. Hook unit is made of alloy steel material by die-casting formation, with high strength and four times safety factor. The lower hook is also with safety latch to ensure safety of lifting operations.

Dimensions:



| Model | L (mm) | W (mm) | H (mm) | Package Box | | | Cu.Ft | N.W (Kgs) | G.W (Kgs) |
|---------|--------|--------|--------|-------------|-------|-------|-------|-----------|-----------|
| | | | | L(mm) | W(mm) | H(mm) | | | |
| DU-300S | 490 | 170 | 180 | 600 | 290 | 390 | 2.3' | 19 | 21 |
| DU-500S | 490 | 170 | 180 | 600 | 290 | 390 | 2.3' | 19 | 21 |

BATTERY CHAIN HOIST



LI-ION BATTERY



NiMH BATTERY

BATTERY CHAIN HOIST

Applications :

Suitable for the areas without power supply, such as forest, farm, wilderness, under-construction buildings, plumbing, etc.

Also good for safety and rescuing applications, extremely efficient.

Features:

Trigger Switch Set: Power-Tool-Wise controller

Battery: DC 18V in Li-Ion & NiMH types (2 battery packs in box)

Battery Performance: 20 min. for Li-Ion battery; 15 min. for NiMH battery

Battery Charger: AC 100V-240V. Conform to main safety standards.

Charging Time: 70 min. for Li-Ion battery; 120 min. for NiMH battery

Load Chain: FEC Grade 80

Lifting Height: 3mtr as standard

Quick Connector: Easy plug in & out for hoist and trigger switch.

Control Cable Length: 2mtr as standard

Portable Case: Securely stores the hoist and accessories in fine appearance, and easy carry.

Battery Condition Indicator: Displays the amount of power remaining in the battery

Stepless Speed Switch: For precision and control during a variety of applications

LED Load Display: Green - Low Loading. Yellow - Medium Loading. Red - Heavy Loading.

Overloading Warning Alarm: Buzzer sounds when overload occurs.

Overload Clutch: Protection against overloading and over tight revolving

Emergency Stop: Optional upon request

Upper Limit Sensor: Optional upon request

Accessories:



Portable Case



Chain Bag



Li-Ion Battery Control System



NiMH Battery Control System

Specifications and Dimensions:



| Model | Capacity (Kgs) | Power (Voltage) | Chain (mm) | Lift (M) | Speed (M/min) | L (mm) | W (mm) | H (mm) | Package Box LxWxH(mm) | N.W (Kgs) | G.W (Kgs) |
|---------|----------------|-----------------|------------|----------|---------------|--------|--------|--------|-----------------------|-----------|-----------|
| DCH-250 | 250 | DC18V | 4x12 | 3 | 4.5 | 257 | 173 | 388 | 630x280x450 | 8 | 16 |
| DCH-500 | 500 | DC18V | 4x12 | 3 | 2.2 | 257 | 173 | 456 | 630x280x450 | 9 | 17 |

BATTERY WIRE WINCH



DCW-250

NiMH BATTERY



EASY-PULL



EASY-CONTROL



DCW-250



LI-ION BATTERY

BATTERY WIRE WINCH

Applications :

Suitable for the areas without power supply, such as forest, farm, wilderness, under-construction buildings, plumbing, etc.
Also good for safety and rescuing applications, extremely efficient.

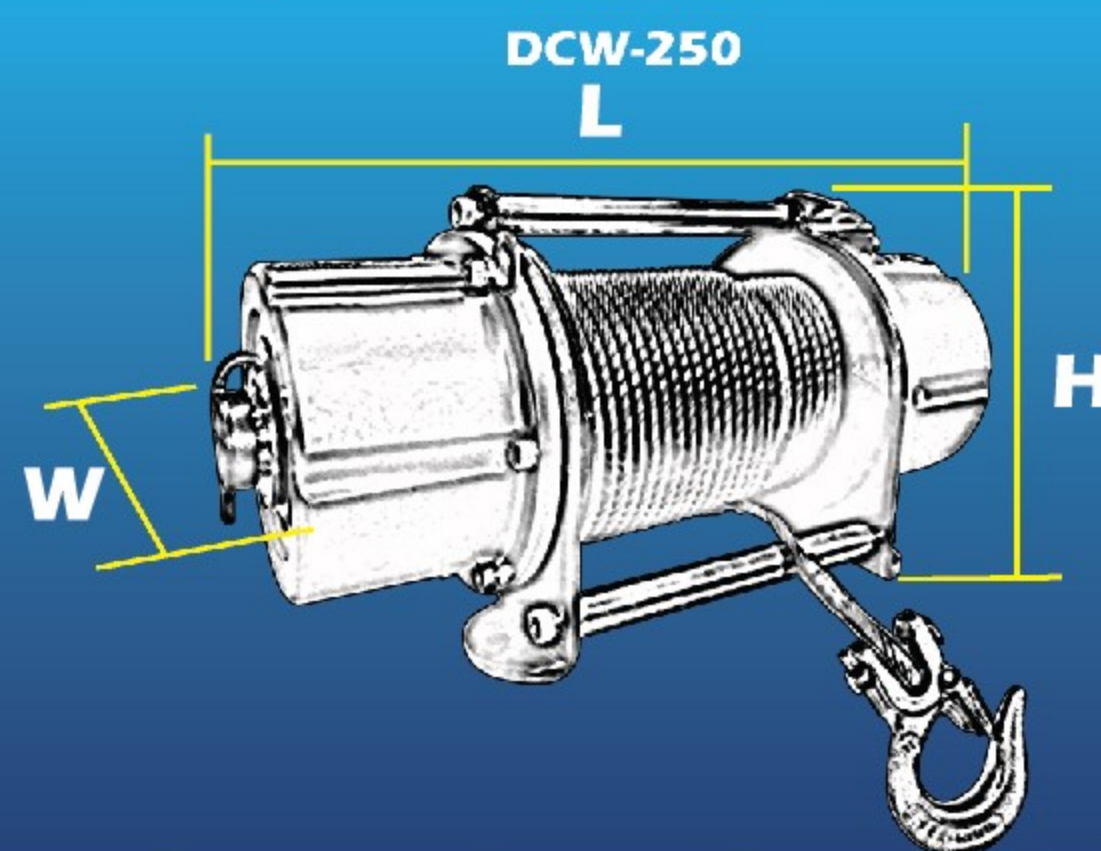
Features:

- Trigger Switch Set:** Power-Tool-Wise controller
- Battery:** DC 18V in Li-Ion & NiMH types (2 battery packs in box)
- Battery Performance:** 20 min. for Li-Ion battery; 15 min. for NiMH battery
- Battery Charger:** AC 100V-240V. Conform to main safety standards.
- Charging Time:** 70 min. for Li-Ion battery; 120 min. for NiMH battery
- Quick Connector:** Easy plug in & out for winch and trigger switch.
- Control Cable Length:** 2mtr as standard
- Portable Case:** securely stores the winch and accessories in fine appearance, and easy carry.
- Battery Condition Indicator:** Displays the amount of power remaining in the battery
- Stepless Speed Switch:** For precision and control during a variety of applications
- LED Load Display:** Green - Low Loading. Yellow - Medium Loading. Red - Heavy Loading.
- Reverse Switch:** Left: forward rotation of drum; Right: rearward rotation of drum
- Overloading Warning Alarm:** Buzzer sounds when overload occurs.
- Emergency Stop:** Optional upon request

Accessories:



Specifications and Dimensions:



| Model | Pulling Capacity (Kgs) | Power (Voltage) | Wire Rope (mm x M) | Speed (M/min) | L (mm) | W (mm) | H (mm) | Package Box LxWxH(mm) | N.W (Kgs) | G.W (Kgs) |
|---------|------------------------|-----------------|--------------------|---------------|--------|--------|--------|-----------------------|-----------|-----------|
| DCW-250 | 350 | DC18V | 5x15 | 4 | 288 | 122 | 144 | 690x160x430 | 8 | 16 |

COMPACT ELECTRIC CHAIN HOIST

ACH-500

ACH-250



Accessories:



COMPACT ELECTRIC CHAIN HOIST

Applications :

Fit for various construction workplaces, civil engineering, general factories, plumbing, coating scaffolding, warehousing, buildings, domestics, farming industries, stores and even more.

Features:

Lightweight, compact, easy carry, operation friendly, and fine appearance.

Upper Hook: Made from alloy steel material by die-casting formation. High strength and reliable safety.

Wide opening with latch.

Motor: High-speed brush motor (series wound), small size and high efficiency.

Quick Connector: Industrial 3-Pin power connector.

Quick plug in & out for pendant controller. Easy connection and storage for control switch.

Load Chain: DT level load chain (4.0mm, grade 80) standard, manufactured by Japan FEC provides a higher resistance against fatigue, wear and rust.

Brake / Clutch: Friction Clutch can make the motor idle running to avoid damage under overload and over tight revolving.

Housing: The compact aluminum die-casting body with exceptional rigidity.

Applied with automobile grade powder coating. High dust-protection and water protection (IP-54).

Quick Connector Lid: Well protection of connector parts against ingress.

Gears: With high efficiency driving system plus 3-stage planetary speed reducing gear and 2-stage spur speed reducing gear.

Chain Container: One-piece HDPE chain container provides higher resistance, tensile, and durability.

Lower Hook (For ACH-500): Aluminum alloy pulley case. Hook made from alloy steel material by die-casting formation. High strength and reliable safety. Inside is applied with ball bearing to against 360 degree rotation.

Lower Hook (For ACH-250): Hook made from alloy steel material by die-casting formation. High strength and reliable safety. Inside is applied with ball bearing to against 360 degree rotation.

Electric Control System: Electromagnetism control.

Specifications and Dimensions:



| Model | Capacity (Kgs) | Power (Voltage) | Chain (mm) | Lift (M) | Speed (M/min) | L (mm) | W (mm) | H (mm) | Package Box LxWxH(mm) | N.W (Kgs) | G.W (Kgs) |
|---------|----------------|-----------------|------------|----------|---------------|--------|--------|--------|-----------------------|-----------|-----------|
| ACH-250 | 250 | 110/220 | 4x12 | 3 | 4 | 335 | 173 | 388 | 375x365x265 | 8 | 14 |
| ACH-500 | 500 | 110/220 | 4x12 | 3 | 2 | 335 | 173 | 456 | 375x365x265 | 9 | 15 |

ELECTRIC TROLLEY

DU-102C



Hook Type



Flat Type



Model: DU102C(Hook Type)

Fit Models:

**DU-825,DU-901,DU-902,
DU-750,DU-905,DU-906**

Max: 2000Kgs

Power: 220V,380V,440V

Phase: 1or3

Trolley Speed:

50Hz--18M/min

60Hz--22M/min

Trolley Motor: 0.5HP

Dimensions: 470mm×295mm×241mm

Packing: 570mm×400mm×340mm

Net Weight: 39KG

Gross Weight: 40KG

Model: DU102C(Flat Type)

Fit Models:

**DU-202,DU-204,DU-205,
DU-208,DU-210**

Max: 500Kgs

Power: 220V,380V,440V

Phase: 1or3

Trolley Speed:

50Hz--18M/min

60Hz--22M/min

Trolley Motor: 0.5HP

Dimensions: 470mm×295mm×200mm

Packing: 570mm×330mm×370mm

Net Weight: 39KG

Gross Weight: 40KG

MEMO

MEMO

A large, empty blue rounded rectangular frame with a thick border, intended for writing a memo. The frame is centered on the page and occupies most of the vertical space below the 'MEMO' header.



MEMO





Electric Mini Wire Winch



Electric Mini Chain Hoist



Electric Chain Hoist



Electric Wire Winch



Compact Electric Wire Winch



Electric Inversion Chain Hoist



Battery Wire Winch



Battery Chain Hoist



Electric Trolley



Chi Zong Machine Co., Ltd.

ADD: 6, TATUNG ST., TUCHENG DIST., NEW TAIPEI CITY 236, TAIWAN

Tel:886-2-2267-7370 Fax:886-2-2267-7380

Http://www.duke-winch.com e-mail: sales@duke-winch.com