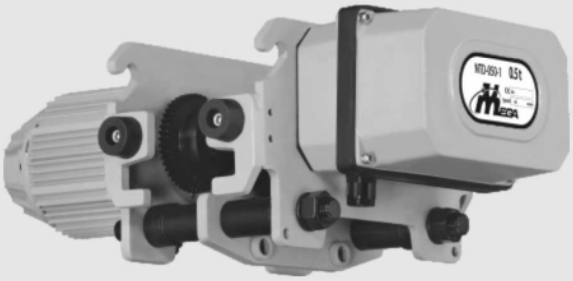


# Motorized Trolley

## Operation Manual
## &
## Parts List

**Series:**

- ☐ NT(D)-050-2
- ☐ NT(D)-050-1
- ☐ NT(D)-100-2
- ☐ NT(D)-100-1
- ☐ NT(D)-200-2
- ☐ NT(D)-200-1
- ☐ NT(D)-250-1
- ☐ NT(D)-300-2
- ☐ NT(D)-500-2

**CHENG DAY** MACHINERY WORKS CO., LTD.

# SAFETY-IMPORTANT

**The use of any hoist and trolley presents some risk of personal injury or property damage. That risk is greatly increased if proper instructions and warnings are not followed. Before using this hoist, each user should become thoroughly familiar with all warnings, instructions and recommendations herein.**

THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH IF NOT FOLLOWED COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL AND ANY PROVIDED WITH THE EQUIPMENT BEFORE ATTEMPTING TO OPERATE YOUR "U-MEGA" MOTORIZED TROLLEY.

# CONTENTS

# I. FOREWORD

This manual contains important information to help you properly install, operate and maintain the U-MEGA motor driven trolley for maximum performance, economy and safety.

Please study its contents thoroughly before putting the trolley into operation.

By practicing correct operation procedures and by carrying out the recommended preventative maintenance suggestions, you will be assured of dependable service.

In order to help us to supply correct spare parts quickly, please always specify:

1).Trolley Model, 2). Serial Number and 3). Part Number, as well as the description.

We trust that you will find this "U-MEGA" trolley satisfies your requirements.

Should you have any queries, please contact:

( Please ask for a company's stamp from your local agent)

# II. OPERATING AND SAFETY PROCEDURES

The following are operating and safety procedures for safe operation of the U-MEGA motor driven trolley. Taking precedence over and specific rules listed here, however is the most importance rule of all. A few minutes spent reading these rules can make an operator aware of dangerous practices to avoid and precautions to take for his own safety and others.

1. Immediately after installation, operate trolley with safe working load over the entire length of runway or monorail system to be sure that all adjustments and operations are satisfactory.
2. Rail stops must be installed for all trolleys operating on open end beams. These stops must be positioned such that impact forces are absorbed by trolley side frames only.
3. When preparing to lift a load, be sure that the attachments to the hook are firmly seated in hook saddle. Avoid off center loading on the point of hook.
4. When lifting, raise the load only enough to clear the floor or support and check to be sure that the attachments to hook and load are firmly seated. Continue lift only after you are assured the load is free of all obstructions.
5. When applying a load, it should be directly under the trolley. Avoid off center loading of any kind.
6. Take up a slack load chain carefully and start lifting load slowly to avoid shock and jerking of hoist load chain. If there is any evidence of overloading, immediately lower the load and remove the excess load.
7. Do not allow the load to swing or twist while hoisting.
8. Anticipate the stopping point and allow trolley to coast to smooth stop. Reversing or plugging to stop trolley causes overheating of motor and swaying of load.
9. Do not load trolley beyond the rated capacity. Overload can cause immediate failure of load carrying parts of cause damage resulting in future failure at less than rated capacity.
10. Do not use this or any other overhead materials handling equipment for lifting or transporting people.
11. Stand clear of all loads and avoid moving a load over the heads of other people. Warn people of your intention to move a load in their area.
12. Do not leave the load suspended in the air unattached.

13. Do not wrap the load chain around the load and hook into itself as a choker chain.
    Doing this will result in the follow:
    (a) Operation of the upper limit switch is bypassed and the load could hit the hoist.
    (b) The loss of the swivel effect of the hook which could mean twisted chain and a jammed lift wheel.
    (c) The chain could be damaged at the hook.
14. Permit only qualified personnel to operate the unit.

# III. GENERAL INFORMATION

The U-MEGA motorized trolleys are designed for use with the U-MEGA Electric Chain Hoists. The trolleys are available in the following capacities: 0.5-Ton~5-Ton, These trolleys are similar except for the size of the load carrying members.

The trolleys have rugged steel side plates with anti-drop fins, steel wheel axles, steel suspension bolts, construction steel load plate seated in middle of two suspension bolts for top hook of hoist to hook on. The hot forged travelling wheels machine to suit both I-beam and flat beam. Hardened steel gears are attached to two track wheels and driven
by a hardened steel pinion. The pinion is driven by planetary gear reducer in high quality grease. A weather proof motor drive the gear reducer.

The electric housing contains a reversing contactor and a terminal boards. The transformer will be an option depending on the user's need. The 3-phase motor is always equipped with a magnetic brake over the end of driven motor. Above the housing bottom, there three holes, one for cord from hoist, another for control cord from hoist, the third one for trolley motor cord, it will serve as an option for equipped with the Push-Bottom-Station cord for the trolley. In addition, there are two option holes on each side of the housing, motor power cord on the right, and an optional hole for the power cord to trolley on the left. All five holes are equipped with cable gland for IP-55 protection optionally.

# IV. INSTALLATION

## 1. UNPACKING INFORMATION

After removing the trolley from the shipping carton/crate, carefully inspect the external condition of the cord, electric housing, gear reducer, motor and brake (3-phase model) for damage that may have occurred during shipment and handling. Check to make sure all parts are furnished. i.e. trolley side frame with electric housing, side frame with reducing gear motor, position tube, spacer washer, stay-bolts, nuts and load plate for hoist top hook. Also, before attempting to install the trolley, make sure that the power supply indicated on the labels attached to the motor housing is the same as the power supply on which the unit is to operate.

Generally, the hoist and trolley are packed separately. Except when the order indicates the requirement of 4-way control for the hoist with trolley, then the hoist will be packed with trolley together in one wooden crate.

**⚠WARNING**

For all trolley suspended hoist rail stops must be installed at each end of the rail. Failure to install rail stops will allow the hoist and trolley to fall off the end of the rail and thus cause an accident that may result in injury and/or property damage. The stops must be positioned as to not exert impact force on the hoist frame or trolley wheels. They must contact the ends of the trolley side frames.

## 2. TROLLEY TO BEAM

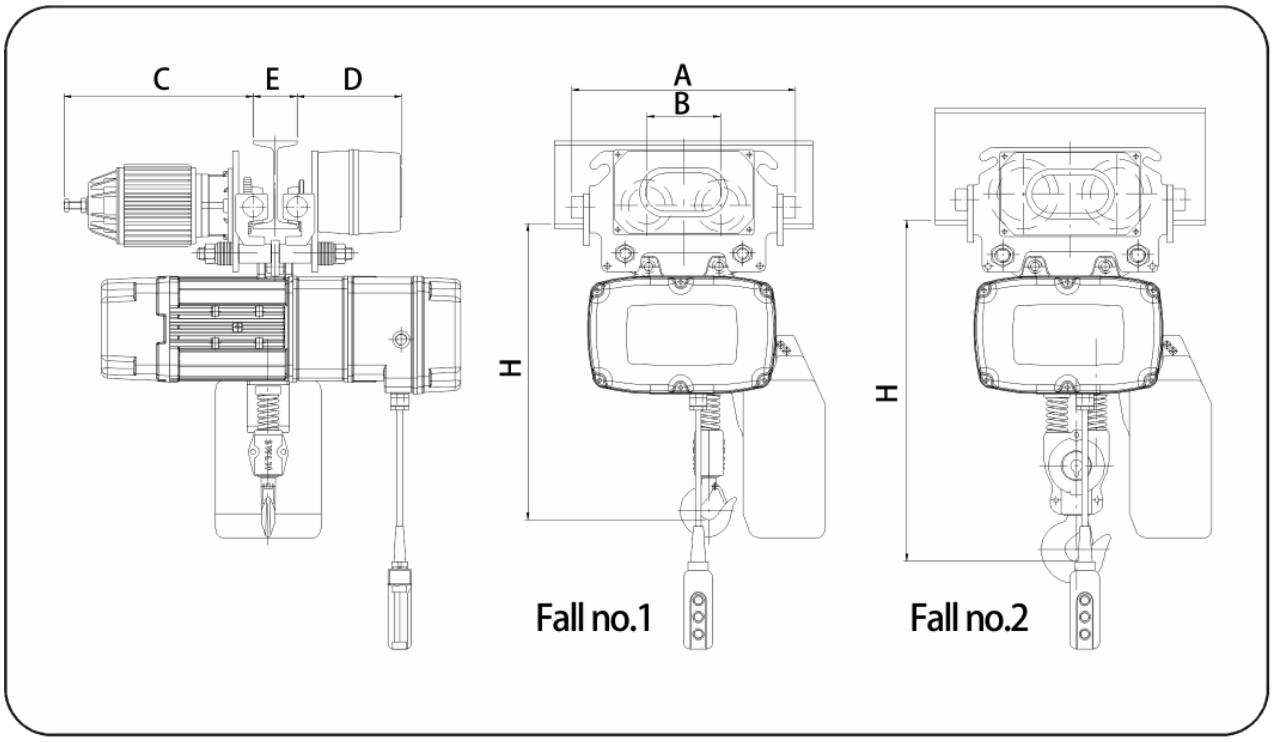
It is recommended that the trolley be mounted on the beam prior to attaching the hoist to the trolley. Before attempting to mount the trolley on the beam, measure the actual width of the beam flange on which the trolley is to operate. Using this measurement determine the arrangement of spacer washers between the two trolley side frames. First loosely assemble the side frames, position tubes, spacer washers and nuts on the stay bolts.

**⚠WARNING**

The trolley and beam should be inspected periodically to assure their continued operations. Operating a malfunctioning trolley and/or operation the trolley on a beam with an excessively worn flange may allow the trolley to fall from the beam causing an accident that may result in injury and/or property damage.

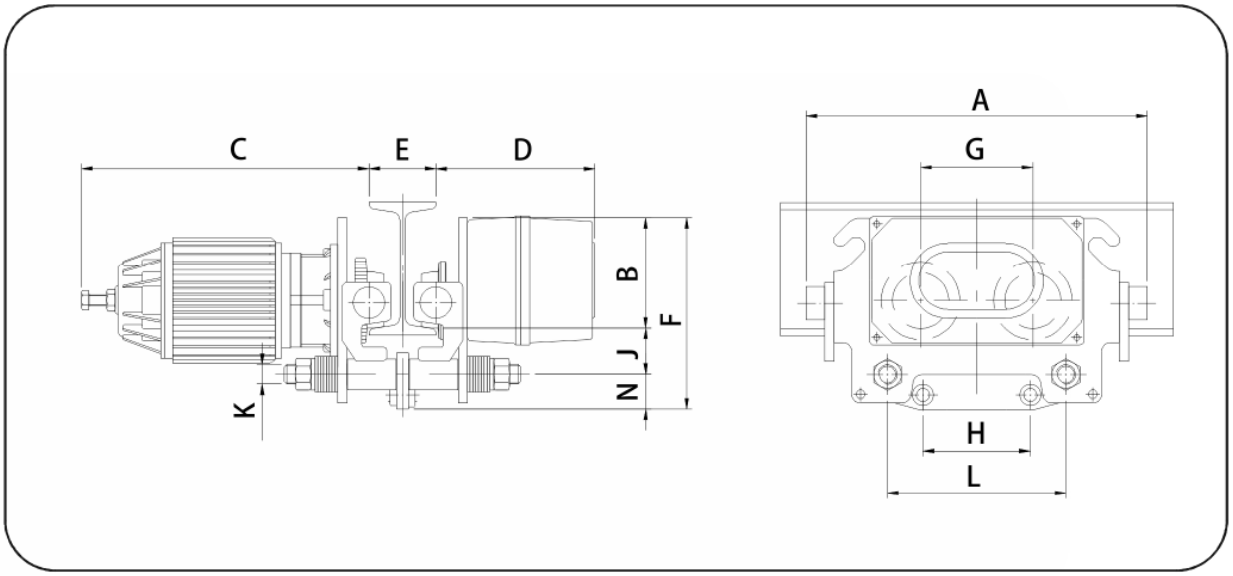
Due to the variations in beam flange widths, it is suggested that the beam flange width be measured to determine the exact distribution of spacer washers. The distance between track wheels flanges should be 3-5 mm greater than the beam flange width for straight runway beams, and 5-7 mm greater than the beam flange width if runway includes sharp curves. Now install the trolley on the beam by sliding one side frame out far enough to allow the track wheels to clear beam flange. Lift the trolley up so that the track wheels are riding on the beam and draw the side frames together and tighten the nuts snugly.

## 3. HOIST WITH MOTORIZED NTD TROLLEY




| Model | Dimension (mm) | | | | | | Fall No. |
|---|---|---|---|---|---|---|---|
| | H | A | B | C | D | E | |
| NHD-050-1+NTD-050-1 | 500 | 385 | 126 | 325 | 180 | 75~125 | 1 |
| NHD-100-2+NTD-100-2 | 565 | 385 | 126 | 325 | 180 | 75~125 | 2 |
| NHD-100-1+NTD-100-1 | 550 | 385 | 126 | 325 | 180 | 75~125 | 1 |
| NHD-200-2+NTD-200-2 | 625 | 395 | 159 | 360 | 185 | 100~150 | 2 |
| NHD-200-1+NTD-200-1 | 990 | 395 | 159 | 360 | 185 | 100~150 | 1 |
| NHD-250-1+NTD-250-1 | 953 | 445 | 185 | 400 | 195 | 125~175 | 1 |
| NHD-300-2+NTD-300-2 | 1000 | 445 | 183 | 400 | 195 | 125~175 | 2 |
| NHD-500-2+NTD-500-2 | 1050 | 445 | 183 | 400 | 195 | 125~175 | 2 |

## 4. MOTORIZED NTD TROLLEY




| Model | Speed (m/min) | | Motor kw x pole | Dimension (mm) | | | | | | | | | | | | N.W. (kg) | Mnradius of curve (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 60Hz | 50Hz | | A | B | C | D | E | F | G | H | L | J | N | K | | |
| NT-050-1 | 24 | 20 | 0.12 x 2P | 385 | 125 | 325 | 180 | 75~125 | 217 | 126 | 95.5 | 200 | 52 | 41 | 7/8"~9UNC (Ø22.2) | 45 | 1.3 |
| NTD-050-1 | 24/6 | 20/5 | 0.12/0.03 x 2/8P | | | | | | | | | | | | | | |
| NT-100-1 | 24 | 20 | 0.18 x 2P | 385 | 112 | 325 | 180 | 75~125 | 217 | 126 | 120 | 210 | 67 | 39 | 1"~8 UNC (Ø25.4) | 45 | 1.3 |
| NTD-100-1 | 24/6 | 20/5 | 0.18/0.04 x 2/8P | | | | | | | | | | | | | | |
| NT-100-2 | 24 | 20 | 0.18 x 2P | 385 | 112 | 325 | 180 | 75~125 | 217 | 126 | 95.5 | 210 | 67 | 39 | 1"~8 UNC (Ø25.4) | 45 | 1.3 |
| NTD-100-2 | 24/6 | 20/5 | 0.18/0.04 x 2/8P | | | | | | | | | | | | | | |
| NT-200-2 | 24 | 20 | 0.37 x 2P | 395 | 125 | 360 | 185 | 100~150 | 236 | 159 | 120 | 230 | 75 | 36 | 1 1/4"~7UNC (Ø31.8) | 50 | 1.7 |
| NTD-200-2 | 24/6 | 20/5 | 0.37/0.09 x 2/8P | | | | | | | | | | | | | | |
| NT-200-1 | 24 | 20 | 0.37 x 2P | 395 | 125 | 360 | 185 | 100~150 | 251 | 159 | 52.5 | 230 | 75 | 51 | 1 1/4"~7UNC (Ø31.8) | 50 | 1.7 |
| NTD-200-1 | 24/6 | 20/5 | 0.37/0.09 x 2/8P | | | | | | | | | | | | | | |
| NT-250-1 | 24 | 20 | 0.6 x 2P | 445 | 154 | 400 | 195 | 125~175 | 283 | 183 | 52.5 | 250 | 71 | 58 | 1 1/2"~6UNC (Ø38.1) | 65 | 2.0 |
| NTD-250-1 | 24/6 | 20/5 | 0.6/0.15 x 2/8P | | | | | | | | | | | | | | |
| NT-300-2 | 24 | 20 | 0.6 x 2P | 445 | 154 | 400 | 195 | 125~175 | 283 | 183 | 52.5 | 250 | 71 | 58 | 1 1/2"~6UNC (Ø38.1) | 65 | 2.0 |
| NTD-300-2 | 24/6 | 20/5 | 0.6/0.15 x 2/8P | | | | | | | | | | | | | | |
| NT-500-2 | 24 | 20 | 0.6 x 2P | 445 | 154 | 400 | 195 | 125~175 | 283 | 183 | 52.5 | 250 | 71 | 58 | 1 3/4"~5UNC (Ø44.5) | 65 | 2.0 |
| NTD-500-2 | 24/6 | 20/5 | 0.6/0.15 x 2/8P | | | | | | | | | | | | | | |

*Different flange width options available on request. Maximum:310mm.

## 5. ELECTRICAL INSTALLATION

The trolley electrical connection must be completed as shown in Illust.1, the Hoist & Trolley General Arrangement. Generally, the electric housing is provided with three holes in the bottom, one for trolley motor cord, the second one for trolley power cord from hoist and the third one for control cord from hoist. Moreover, the optional five holes design for independent usage of trolley are also available, please refer to the Illus.1. There are two holes on each side of the housing, on the left is the power cord for trolley, on the right is for the trolley motor cord.
For the details of wiring connection, please refer to the wiring diagrams. Also be noted that the above mentioned diagrams only acceptable for the standard units of 3-phase.

Hoist with trolley wiring diagram shown example as follows:
A20199 is 3 phases, dual speed model, Please refer to page 11.
SF22000145-2101 is 3 phases, single speed model, Please refer to page 11.
For special unit, please see wiring diagram supplied with unit.

**⚠WARNING**

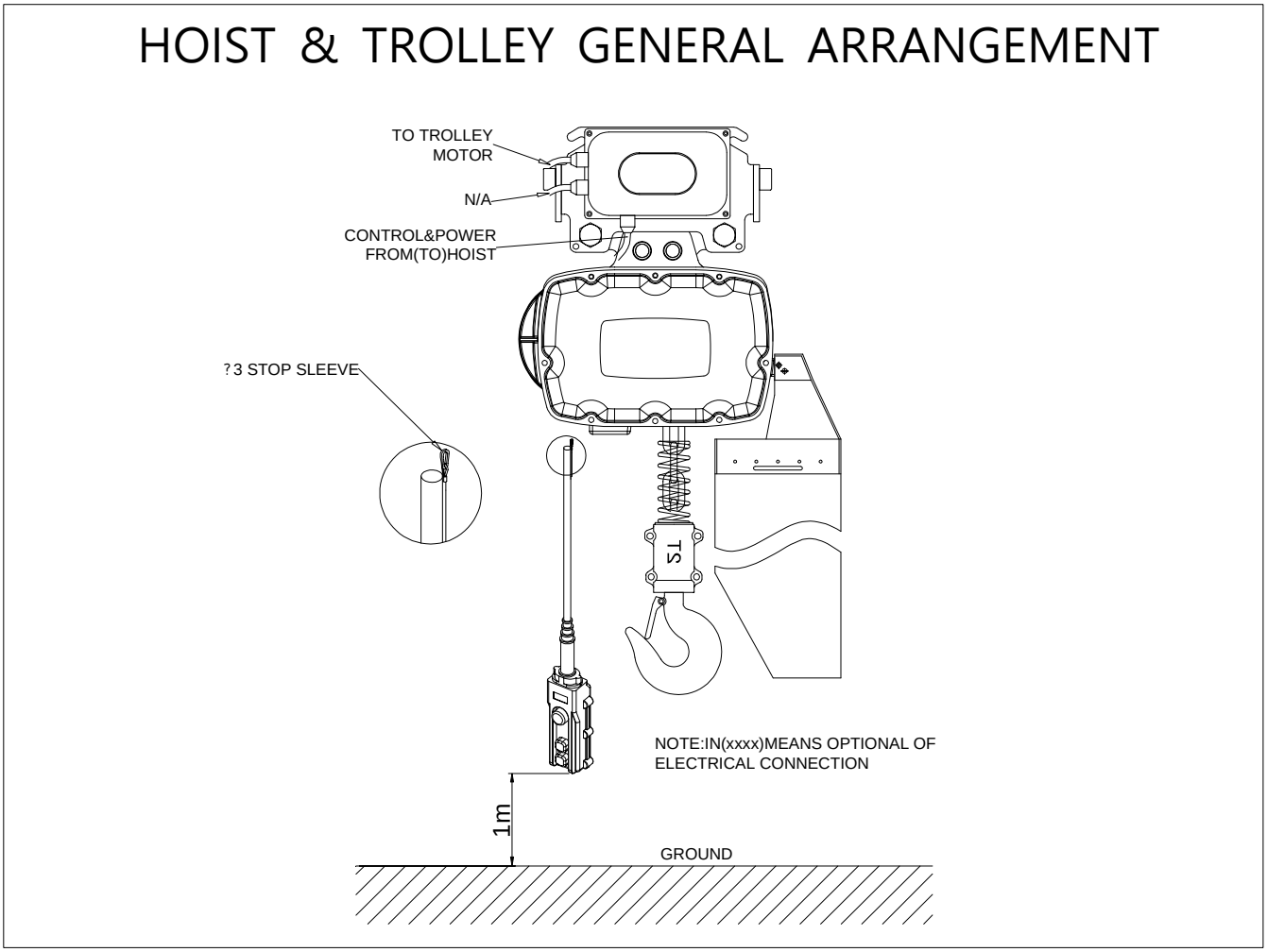
Power should be disconnected when making or changing connections, also proper grounding should be accomplished.

Warranty Details:

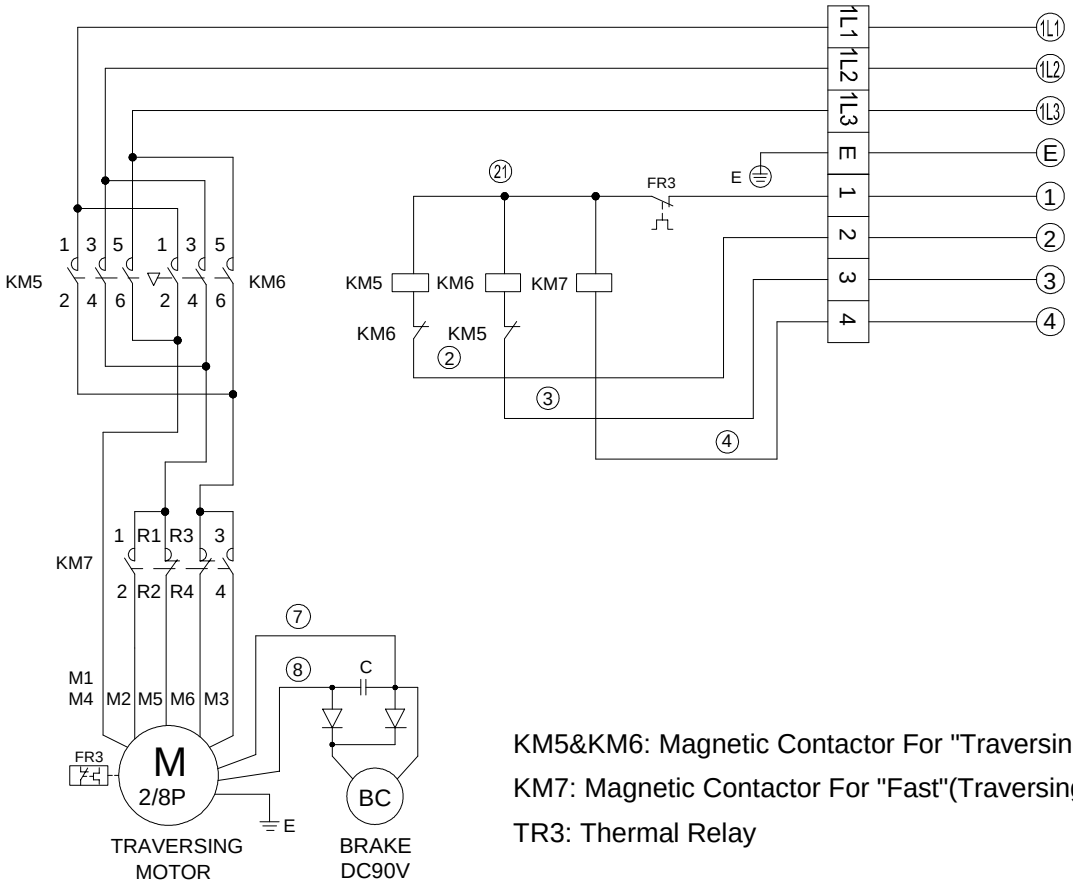
1. Warranty Period : One year for Mechanical Spare Parts after purchase the product.
2. Non-Warranty Scope:
   a. Electrical Spare Parts (ex. Contactor, Pendant, Phase Error Relay, etc.)
   b. Expense Spare Parts (ex. Chain Bucket, Brake Lining, etc.)
   c. Damage caused by unsuitable operation.
      (galvanize plant, chemical plant, and dye-works etc.)
   d. Damage caused by operating on the wrong electric voltage.
   e. Damage caused by user emending the product.
   f. Damage caused by natural disaster.
3. Warranty Scope shall be permitted by Cheng Day Machinery and Within One Year of damaged Mechanical Spare Parts Repair and Replacement.
   (circumstance stated in detail No. 2 are not included.)

## 6. TEST RUNNING

After trolley to beam, hoist hook to trolley and wiring connection completed, operate the trolley forward and backward over a short distance. Then you can operate the trolley over the entire length of runway or monorail system to be sure that all adjustment and operations are satisfactory.




Illust.1



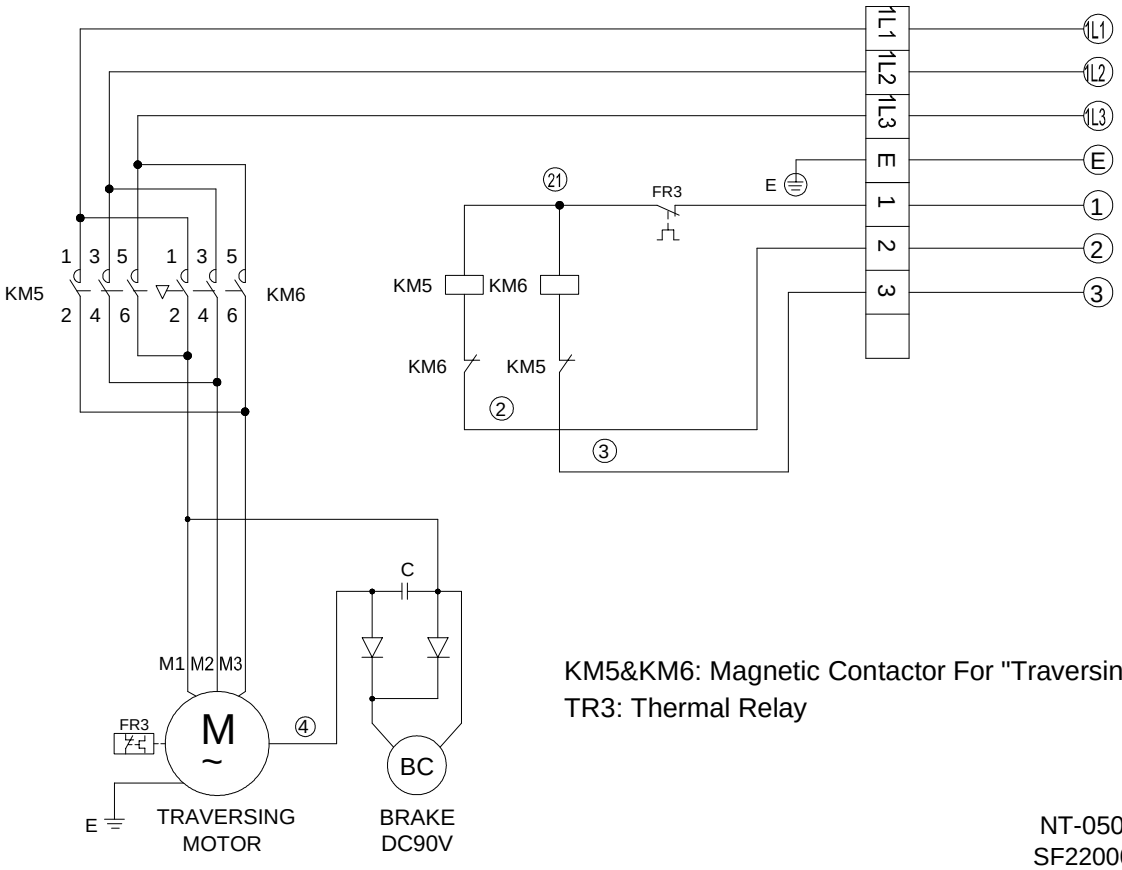

KM5&KM6: Magnetic Contactor For "Traversing"

KM7: Magnetic Contactor For "Fast"(Traversing)

TR3: Thermal Relay

NTD-050~500

A20199




KM5&KM6: Magnetic Contactor For "Traversing"

TR3: Thermal Relay

NT-050~500

SF22000145-2101

# V. INSPECTION

To maintain continuous and satisfactory operation, a regular periodic inspection procedure must be initiated so that worn or damaged parts can be replaced before they become unsafe. The frequency of inspection must be determined by the individual application.

The following list gives an inspection procedure for normal usage under normal conditions. When the unit is subjected to heavy usage or duty, moist or other adverse atmospheric conditions, shorter time periods must be assigned. Inspection must be made of all parts for unusual wear, corrosion or damage in addition to those specifically mentioned in the succeeding list.

It is suggested that the unit be inspected monthly for wear damage and corrosion effects to all parts with particular attention to the following:

1. Tightness of all fasteners.
2. Contactor and control station for burnt or pitted contacts and loose or corroded terminals.
3. Cables and leads for broken wires, loose or corroded terminals and damaged insulation.
4. Terminal board for loose or corroded connections.
5. Track wheels for wear of tread, flange and bearings.
6. Gear portion of track wheel and pinion for wear.
7. Check the wear of top hook to load plate in trolley. If type "E" & "A" rigid hook are used, check he condition of those parts.
8. Collector or power supply system for damage, wear corrosion and proper operation.
9. 3-phase trolley is usually equipped with motor brake. Check the wear of brake lining and adjusting the gap between lining and drum to assure brake efficiency.

# VI. MAINTENANCE

The following three steps are recommended for maintenance:

1. Once a month lubricate track wheel gear and pinion with grease or graphite grease.
2. Motor reducing gearbox uses planetary gear lubricated with cosmo No. 3 grease (Equivalent to: Shell Unedo 3, Exxon Eastan 3, Mobil Cup Grease 3) for good maintenance. It is highly recommended that the motor gearbox grease should be changed after 100 hours of operation, then every 6 months or 2500 hours of normal service. Whichever comes first, the grease needs to be changed as well.
3. The motor brake should be changed & be checked periodically for wear of brake lining and disc. The gap between brake lining & disc can be adjusted by the brake adjusting hex. bolts over the end of motor.

# VII. TROUBLE SHOOTING

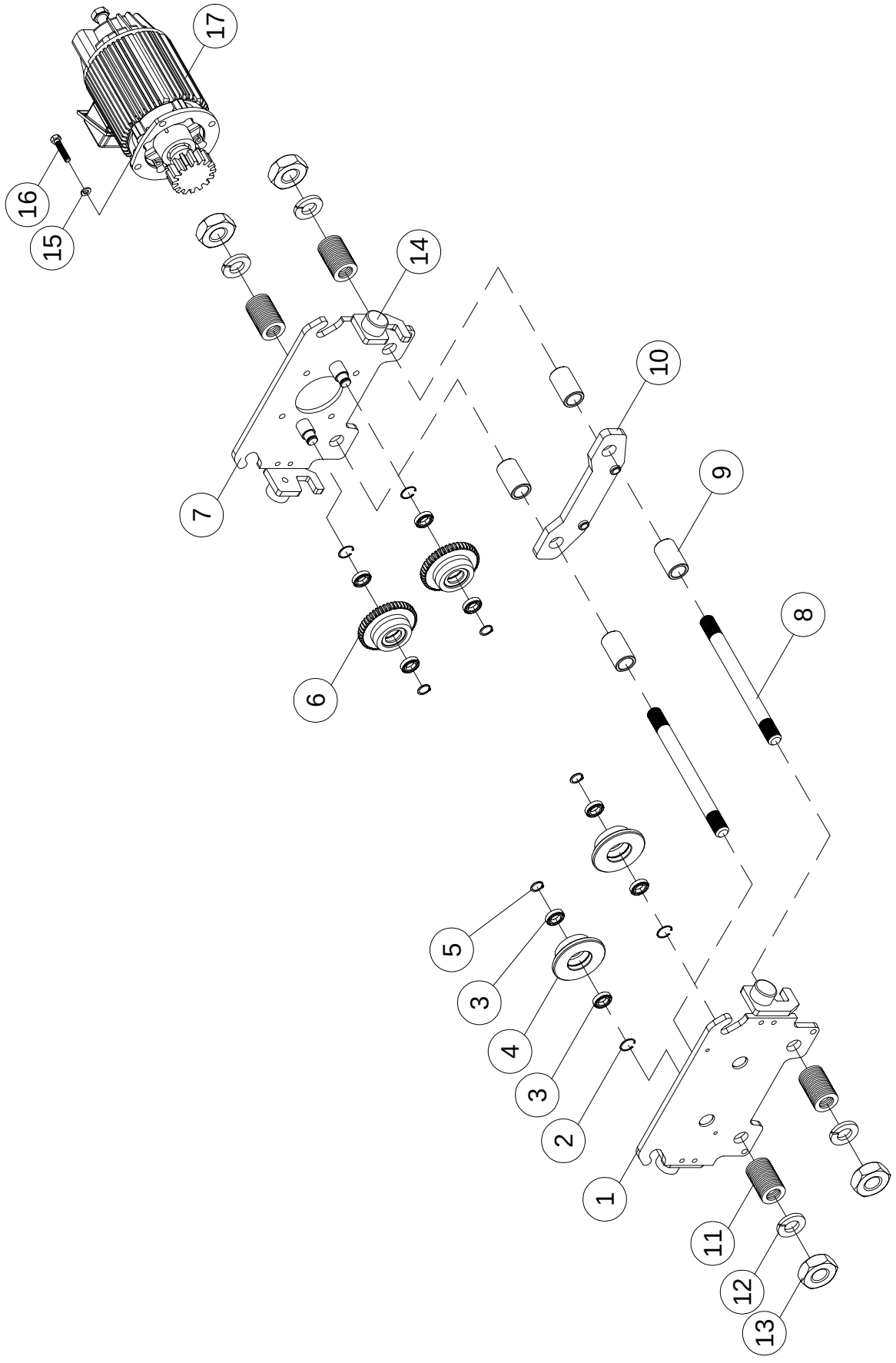
Please refer to table 1 on page 14.

# VIII. PARTS LIST (BOM)

## Table 1. Troubleshooting and Remedial Action

| IF | CAUSE MAY BE | REMEDY |
|---|---|---|
| 1.Trolley does not operate in either direction. | a) Power failure at trolley | Main line or branch circuit switch power on, branch line fuse blown or circuit breaker tripped.<br>Power off, replace or reset.<br>Check for grounded or connect supply lines or current collectors. |
| | b) Phase error (Single phasing) | Power on, grounded or connected one line of supply system, collectors, trolley wiring, reversing contactor, motor leads or windings. Check for electrical continuity. |
| | c) Turn on control circuit | Power on or shorted windings in transformer or reversing contactor coil, loosen connection or broken wire in circuit, mechanical binding in contactor, control station switch contacts not making. Check continuity and repair or replace defective parts. |
| | d) Wrong voltage or frequency | The voltage and frequency must be the same as shown on trolley control box. |
| | e) Low voltage | Control power supply deviates from standard not to exceed ±10% to prevent abnormal operation or damage to the motor. |
| | f) Excessive load | Prevent frequently loading rated load of trolley. |
| 2.Trolley operates in one direction only. | a) Turn on control circuit | As item 1. c) |
| 3.Trolley operates sluggishly | a) Excessive load | As item 1. f) |
| | b) Low Voltage | As item 1. e) |
| | c) Worn or dirty rail | Clean rails, inspect for worn spots. |
| 4.Motor overheats | a) Excessive load | As item 1. f) |
| | b) Low voltage | As item 1. e) |
| | c) Extreme external heating | Above an ambient temperature of 40℃., the frequency of trolley operation must be limited to avoid overheating of motor. Special provision should be made to ventilate the space or shield the trolley from heat radiation. |
| | d) Frequent starting or reversing | Excessive inching, jogging or plugging should be avoided since this type of operation will drastically shorten the life of motor and contactor. |
| | e) Phase error | As item 1. e) |

# TROLLEY FRAME EXPLOSION



# TROLLEY ASSEMBLY

| NO. | PARTS CODE | DESCRIPION | Q'TY REQ'D EACH UNIT | | | |
|---|---|---|---|---|---|---|
| | | | NT(D)-050-2 | NT(D)-050-1 | NT(D)-100-2 | NT(D)-100-1 |
| 1 | 210311K | Electric Frame Ass'y | 1 | 1 | | |
| | 217577K | | | | 1 | 1 |
| 2 | 400922 | Retaining Ring <R-40> | 4 | 4 | 4 | 4 |
| 3 | 407850 | Bearing <6203 ZZ> | 4 | 4 | 4 | 4 |
| 4 | 203128 | Idler Wheel<Ø88×28L> | 2 | 2 | 2 | 2 |
| 5 | 404184 | Retaining Ring <S-17> | 4 | 4 | 4 | 4 |
| 6 | 203110 | Drive Wheel <M2×46T×33L> | 2 | 2 | 2 | 2 |
| 7 | 210312K | Motor Frame Ass'y | 1 | 1 | | |
| | 217576K | | | | 1 | 1 |
| 8 | 408366 | Stay Bolt <7/8″×9UNC×265L><br>Beam 75~125 | 2 | 2 | | |
| | 408367 | Stay Bolt <7/8″×9UNC×340L><br>Beam 75~210 | 2 | 2 | | |
| | 408368 | Stay Bolt <7/8″×9UNC×440L><br>Beam 75~310 | 2 | 2 | | |
| | 408411 | Stay Bolt <1″×8UNC×265L><br>Beam 75~125 | | | 2 | 2 |
| | 408412 | Stay Bolt <1″×8UNC×355L><br>Beam 75~210 | | | 2 | 2 |
| | 408370 | Stay Bolt <1″×8UNC×450L><br>Beam 75~310 | | | 2 | 2 |
| 9 | 203151 | Position Tube <Ø34×Ø24×56L> | 4 | 4 | 4 | 4 |
| 10 | 210324 | Load Bracket | 1 | | | |
| | 210314K | | | 1 | | |
| | 217583K | | | | 1 | |
| | 217569K | | | | | 1 |
| 11 | 203221 | Spacer Washer < Ø40×Ø24×1/8″><br>Beam 75~125 | 32 | 32 | | |
| | 203221 | Spacer Washer < Ø40×Ø24×1/8″><br>Beam 75~210 | 84 | 84 | | |
| | 203221 | Spacer Washer < Ø40×Ø24×1/8″><br>Beam 75~310 | 148 | 148 | | |
| | 203222 | Spacer Washer < Ø46×Ø27×1/8″><br>Beam 75~125 | | | 32 | 32 |
| | 203222 | Spacer Washer < Ø46×Ø27×1/8″><br>Beam 75~210 | | | 84 | 84 |
| | 203222 | Spacer Washer < Ø46×Ø27×1/8″><br>Beam 75~310 | | | 148 | 148 |

# TROLLEY ASSEMBLY

| NO. | PARTS CODE | DESCRIPION | Q'TY REQ'D EACH UNIT | | | |
|---|---|---|---|---|---|---|
| | | | NT(D)-050-2 | NT(D)-050-1 | NT(D)-100-2 | NT(D)-100-1 |
| 12 | 400102 | Spring Washer <7/8"> | 4 | 4 | | |
| | 400103 | Spring Washer <1″> | | | 4 | 4 |
| 13 | 400070 | Hex. Nut <7/8"×9UNC> | 4 | 4 | | |
| | 400071 | Hex. Nut <1″×8UNC> | | | 4 | 4 |
| 14 | 206185 | Bumper | 4 | 4 | 4 | 4 |
| 15 | 400857 | Spring Washer <M10> | 4 | 4 | 4 | 4 |
| 16 | 408364 | Hex. Head Bolt <M10×1.5×20L> | 4 | 4 | 4 | 4 |
| 17 | A | Motor Ass'y <0.12/0.03kW> | 1 | 1 | | |
| | | Motor Ass'y <0.18/0.04kW> | | | 1 | 1 |
| | B | Motor Ass'y <0.12kW> | 1 | 1 | | |
| | | Motor Ass'y <0.18kW> | | | 1 | 1 |

# MOTOR ASSEMBLY

| NO. | PARTS CODE | | DESCRIPTION | Ø - Hz- V | |
|---|---|---|---|---|---|
| 17 | A | 104173 | Motor Ass'y <0.12/0.03kW> | 3Ø 50Hz | 380V |
| | | 101440 | | | 400V |
| | | 101376 | | | 415V |
| | | 104175 | Motor Ass'y <0.18/0.04kW> | 3Ø 50Hz | 380V |
| | | 101379 | | | 400V |
| | | 101378 | | | 415V |
| | B | 101353 | Motor Ass'y <0.12kW> | 3Ø 50Hz | 220V/380V |
| | | 101366 | | | 400V |
| | | 101365 | | | 415V |
| | | 101354 | Motor Ass'y <0.18kW> | 3Ø 50Hz | 220V/380V |
| | | 101381 | | | 400V |
| | | 101382 | | | 415V |

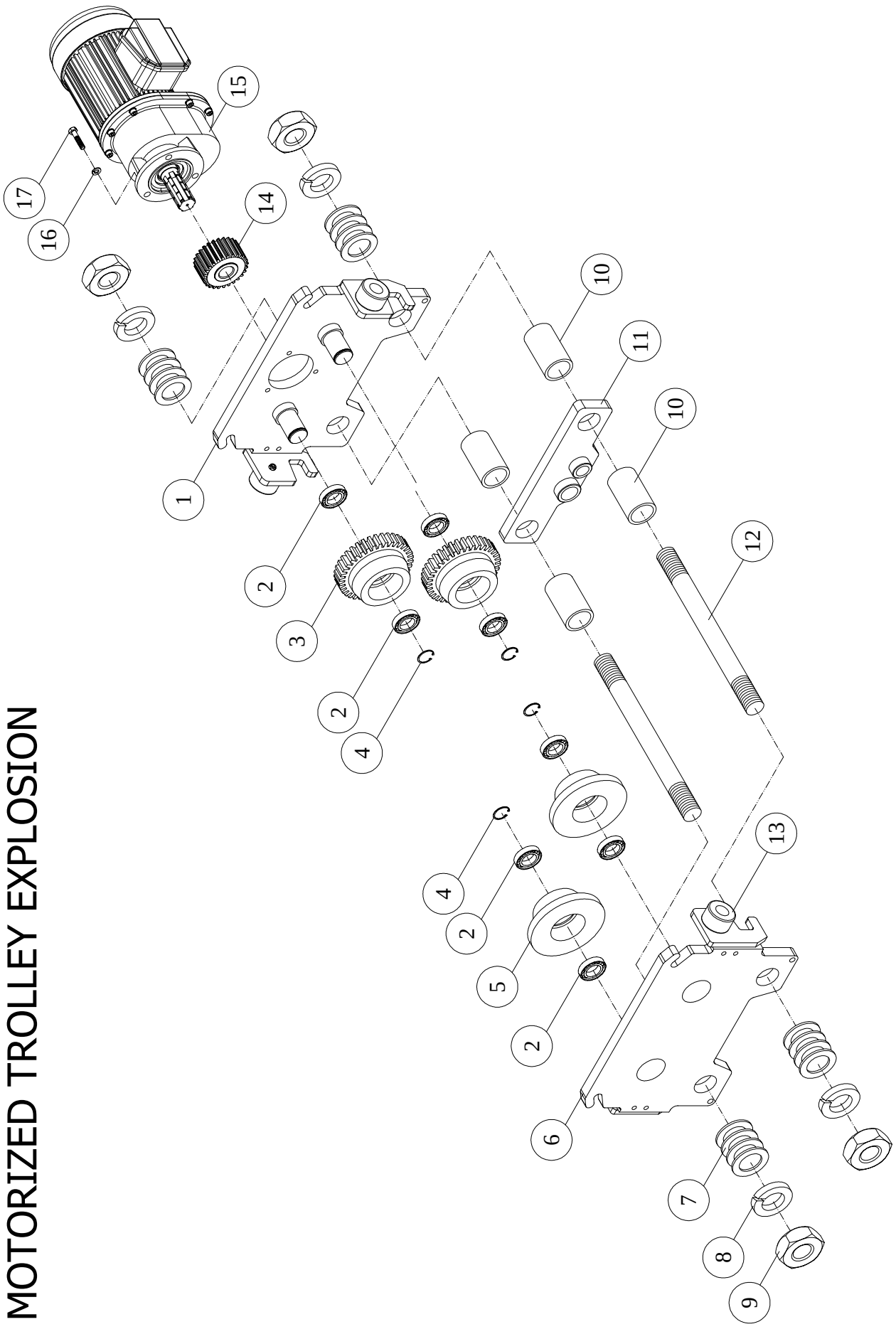
# TROLLEY ASSEMBLY

| NO. | PARTS CODE | DESCRIPION | Q'TY REQ'D EACH UNIT | |
|---|---|---|---|---|
| | | | NT(D)-200-2 | NT(D)-200-1 |
| 1 | 217579K | Electric Frame Ass'y | 1 | 1 |
| 2 | 400922 | Retaining Ring <R-40> | - | - |
| 3 | 407715 | Bearing <6205 ZZ> | 8 | 8 |
| 4 | 203510 | Idler Wheel<Ø119×49L> | 2 | 2 |
| 5 | 400192 | Retaining Ring <S-25> | 4 | 4 |
| 6 | 210323 | Drive Wheel <Ø130×54L> | 2 | 2 |
| 7 | 217578K | Motor Frame Ass'y | 1 | 1 |
| 8 | 400394 | Stay Bolt <1 1/4"×7UNC×335L>Beam 100~150 | 2 | 2 |
| | 400410 | Stay Bolt <1 1/4"×7UNC×395L>Beam 100~225 | 2 | 2 |
| | 408307 | Stay Bolt <1 1/4"×7UNC×480L>Beam 100~310 | 2 | 2 |
| 9 | 217566 | Position Tube <Ø48×Ø34×69L> | 4 | 4 |
| 10 | 217570K | Load Bracket | 1 | |
| | 217595K | | | 1 |
| 11 | 203223 | Spacer Washer < Ø54×Ø34×1/8">Beam 100~150 | 32 | 32 |
| | 203223 | Spacer Washer < Ø54×Ø34×1/8">Beam 100~225 | 80 | 80 |
| | 203223 | Spacer Washer < Ø54×Ø34×1/8">Beam 100~310 | 132 | 132 |
| 12 | 400105 | Spring Washer <1 1/4"> | 4 | 4 |
| 13 | 400072 | Hex. Nut <1 1/4"×7UNC> | 4 | 4 |
| 14 | 206185 | Bumper | 4 | 4 |
| 15 | 400857 | Spring Washer <M10> | 4 | 4 |
| 16 | 408358 | Hex. Headed Bolt <M10×1.5×25L> | 4 | 4 |
| 17 | C | Motor Ass'y <0.37/0.09kW> | 1 | 1 |
| | D | Motor Ass'y <0.37kW> | 1 | 1 |

# MOTOR ASSEMBLY

| NO. | PARTS CODE | | DESCRIPTION | Ø - Hz- V | |
|---|---|---|---|---|---|
| 17 | C | 104176 | Motor Ass'y <0.37/0.09kW> | 3Ø 50Hz | 380V |
| | | 101372 | | | 400V |
| | | 101374 | | | 415V |
| | | 104188 | | 3Ø 60Hz | 460V |
| | D | 101356 | Motor Ass'y <0.37kW> | 3Ø 50Hz | 220V/380V |
| | | 101351 | | | 400V |
| | | 101352 | | | 415V |

# MOTORIZED TROLLEY EXPLOSION



# MOTORIZED TROLLEY ASSEMBLY

| NO. | PARTS CODE | DESCRIPTION | Q'TY REQ'D EACH UNIT | | |
|---|---|---|---|---|---|
| | | | NT(D)-250-1 | NT(D)-300-2 | NT(D)-500-2 |
| 1 | 208144K | Motor Frame Ass'y | 1 | 1 | |
| | 215096K | | | | 1 |
| 2 | 407808 | Bearing <6207 Z> | 8 | 8 | 8 |
| 3 | 203499 | Drive Wheel <M3.5×39T×67L> | 2 | 2 | 2 |
| 4 | 400194 | Retaining Ring <S-35> | 4 | 4 | 4 |
| 5 | 203517 | Idler Wheel<Ø143.5×59L> | 2 | 2 | 2 |
| 6 | 208192K | Electric Frame Ass'y | 1 | 1 | |
| | 215093K | | | | 1 |
| 7 | 203224 | Spacer Washer <Ø60×Ø40×1/8″><br>Beam 125~175 | 32 | 32 | |
| | 203224 | Spacer Washer <Ø60×Ø40×1/8″><br>Beam 125~250 | 80 | 80 | |
| | 203224 | Spacer Washer <Ø60×Ø40×1/8″><br>Beam 125~310 | 152 | 152 | |
| | 269913 | Spacer Washer <Ø70×Ø47×1/4″><br>Beam 125~175 | | | 16 |
| | 269913 | Spacer Washer <Ø70×Ø47×1/4″><br>Beam 125~250 | | | 38 |
| | 269913 | Spacer Washer <Ø70×Ø47×1/4″><br>Beam 125~310 | | | 56 |
| 8 | 400106 | Spring Washer <1 1/2"> | 4 | 4 | |
| | 400104 | Spring Washer <1 3/4″> | | | 4 |
| 9 | 400073 | Hex. Nut <1 1/2"×6UNC > | 4 | 4 | |
| | 400644 | Hex. Nut <1 3/4″×5UNC > | | | 4 |
| 10 | 203153 | Position Tube <Ø50×Ø40×83.5L> | 4 | 4 | |
| | 215097 | Position Tube <Ø60×Ø47×83> | | | 4 |
| 11 | 208097 | Load Bracket | 1 | | |
| | 202900K | | | 1 | |
| | 215095K | | | | 1 |
| 12 | 400067 | Stay Bolt <1<br>1/2″×6UNC×390L>Beam125~175 | 2 | 2 | |
| | 400408 | Stay Bolt <1 1/2″×6UNC×485><br>Beam 125~250 | 2 | 2 | |
| | 408304 | Stay Bolt <1 1/2″×6UNC×580L><br>Beam 125~310 | 2 | 2 | |
| | 401389 | Stay Bolt <1 3/4″×5UNC×415><br>Beam 125~175 | | | 2 |
| | 400069 | Stay Bolt <1 3/4″×5UNC×490L><br>Beam 125~250 | | | 2 |
| | 400413 | Stay Bolt <1 3/4″×5UNC×560L><br>Beam 125~310 | | | 2 |
| 13 | 206185 | Bumper | 4 | 4 | 4 |

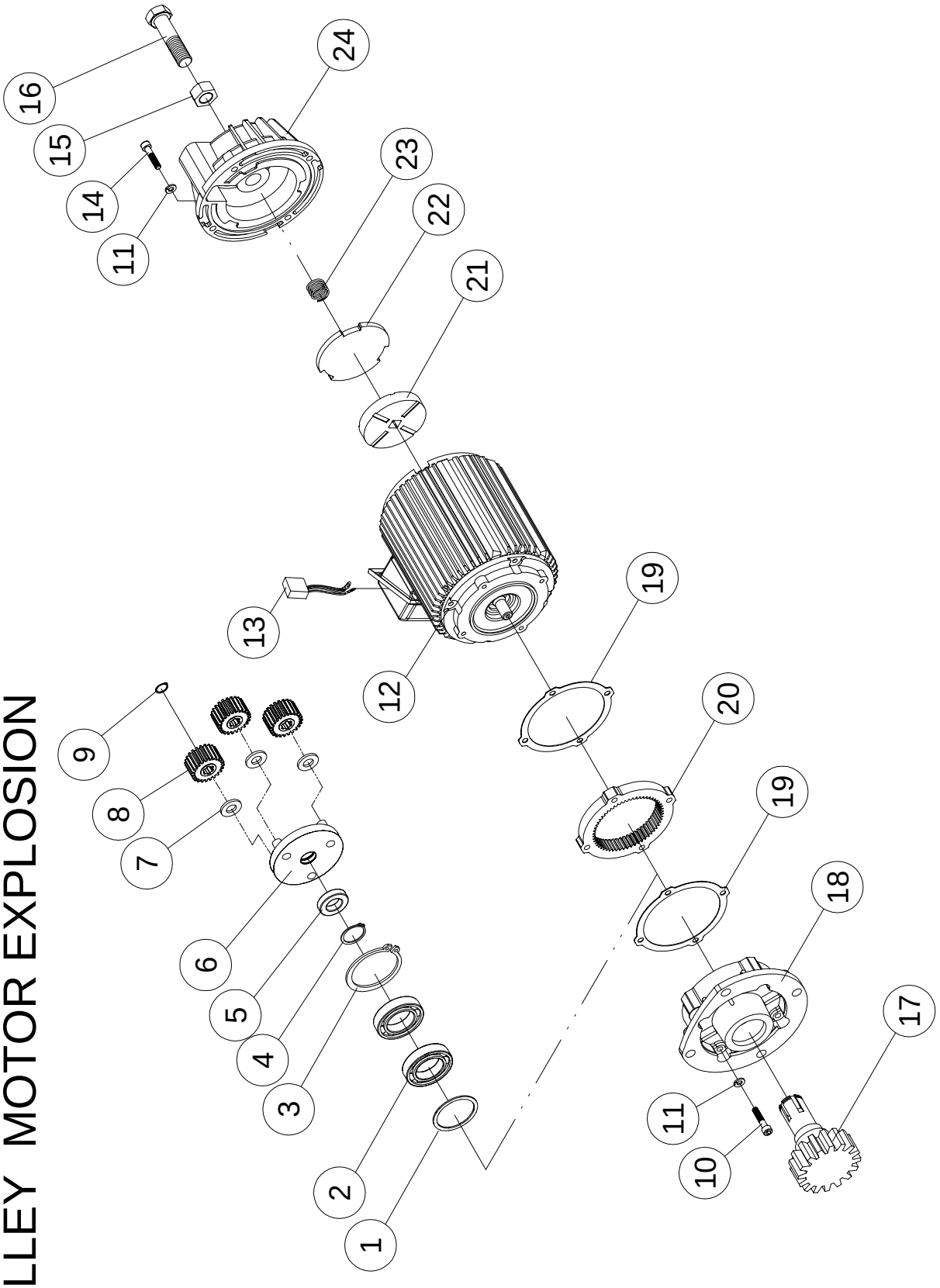
# MOTORIZED TROLLEY ASSEMBLY

| NO. | PARTS CODE | DESCRIPTION | Q'TY REQ'D EACH UNIT | | |
|---|---|---|---|---|---|
| | | | NT(D)-250-1 | NT(D)-300-2 | NT(D)-500-2 |
| 14 | 201755 | Pinion <M3.5×16T×49L> | 1 | 1 | 1 |
| 15 | E | Reducing Gear Motor Ass'y <0.6/0.15kW > | 1 | 1 | 1 |
| | F | Reducing Gear Motor Ass'y <0.6kW> | 1 | 1 | 1 |
| 16 | 400095 | Spring Washer <M8> | 3 | 3 | 3 |
| 17 | 406803 | Hex. Bolt<M8×1.25×30L> | 3 | 3 | 3 |

# MOTOR ASSEMBLY

| NO. | PARTS CODE | | DESCRIPTION | Ø - Hz- V | |
|---|---|---|---|---|---|
| 15 | E | 108684K | Reducing Gear Motor Ass'y <0.6/0.15kW > | 3Ø 50Hz | 380V |
| | | 108687K | | | 400V |
| | | 108230K | | | 415V |
| | F | 108698K | Reducing Gear Motor Ass'y <0.6kW> | 3Ø 50Hz | 380V |
| | | 108775K | | | 400V |
| | | 108776K | | | 415V |

# TROLLEY MOTOR EXPLOSION

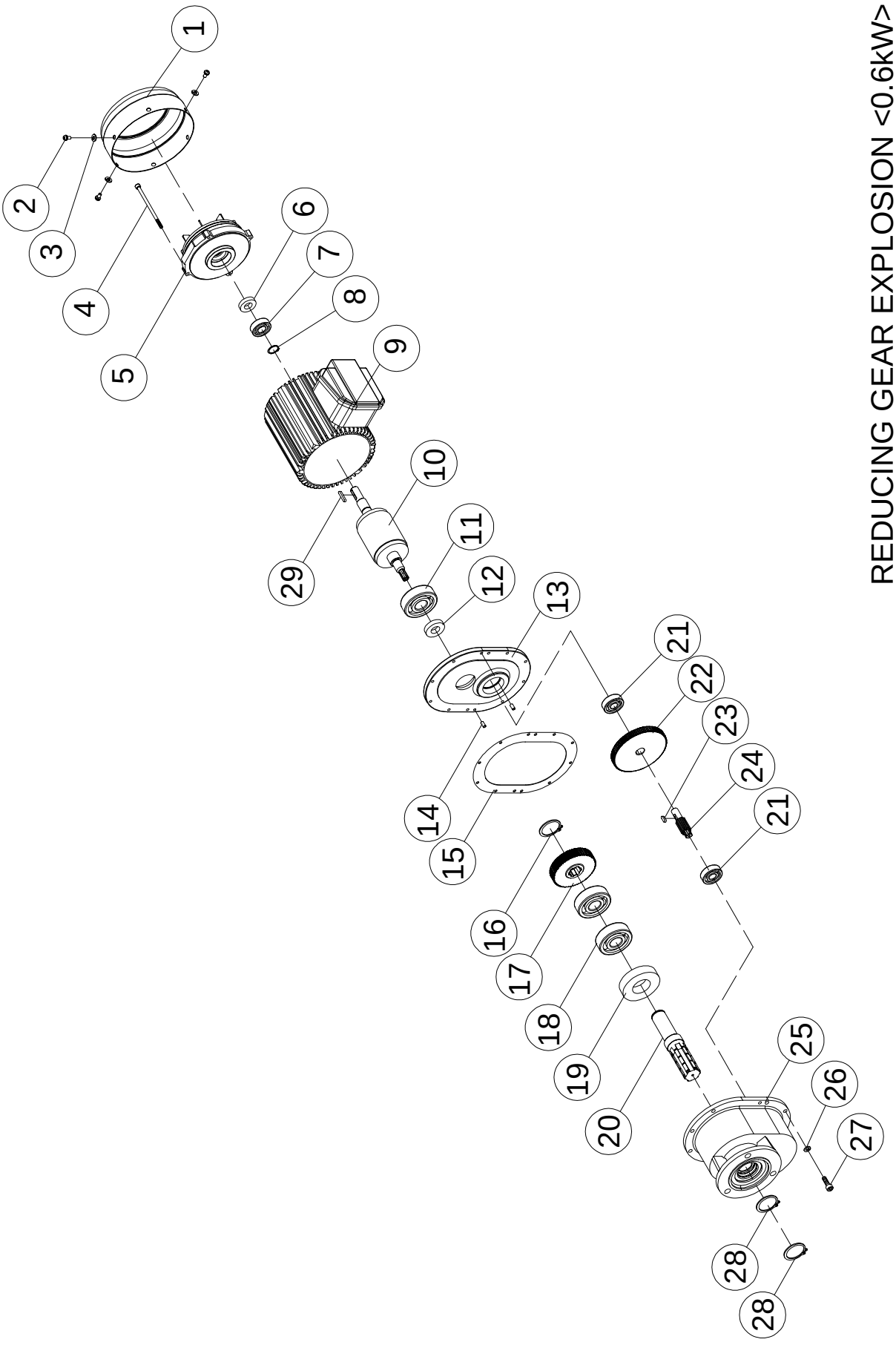


# TROLLEY MOTOR ASSEMBLY

| NO. | PARTS CODE | DESCRIPTION | Q'TY REQ'D EACH UNIT | | |
|---|---|---|---|---|---|
| | | | 0.12kW | 0.18kW | 0.37kW |
| 1 | 400182 | Oil Seal <Ø25×Ø40×6t> | 1 | | |
| 2 | 400695 | Bearing <6204 Z> | 2 | | |
| 3 | 400198 | Retaining Ring <R-47> | 1 | | |
| 4 | 400191 | Retaining Ring <S-20> | 1 | | |
| 5 | 200347 | Axle Sleeve | 1 | | |
| 6 | 200391 | Reducing Gear Frame Ass'y | 1 | | |
| 7 | 400669 | Flat Washer <Ø21×Ø11×2t> | 3 | | |
| 8 | 200337 | Planetary Gear | 3 | | |
| 9 | 400188 | Retaining Ring <S-10> | 3 | | |
| 10 | 408337 | Hex. Head Bolt <M6×1×60L> | 4 | | |
| 11 | 400855 | Spring Washer <M6> | 8 | | |
| 12 | E | Motor Stator Ass'y <0.12/0.03kW> | 1 | | |
| | | Motor Stator Ass'y <0.18/0.04kW> | | 1 | |
| | | Motor Stator Ass'y <0.37/0.09kW> | | | 1 |
| | F | Motor Stator Ass'y <0.12kW> | 1 | | |
| | | Motor Stator Ass'y <0.18kW> | | 1 | |
| | | Motor Stator Ass'y <0.37kW> | | | 1 |
| 13 | 300152 | Rectifier | 1 | | |
| 14 | 408357 | Hex. Head Bolt <M6×1.0×20L> | 4 | | |
| 15 | 400084 | Nut <M12×1.75> | 1 | | |
| 16 | 400030 | Hex. Head Bolt <M12×1.75×30L> | 1 | | |
| 17 | 201772 | Transmission Shaft With Pinion | 1 | 1 | |
| | 210329 | | | | 1 |
| 18 | 200320K | Gear Box | 1 | | |
| 19 | 402513 | Gear Box Gasket | 2 | | |
| 20 | 200334K | Internal Ring Gear | 1 | | |
| 21 | 100805 | Brake Lining Ass'y | 1 | | |
| 22 | 100807 | Brake Disc | 1 | | |
| 23 | 400239 | Brake Spring | 1 | | |
| 24 | 100530 | Brake Drum Ass'y | 1 | | |
| | | | | | |

# MOTOR STATOR ASSEMBLY

| NO. | PARTS CODE | | DESCRIPTION | Ø - Hz- V | |
|---|---|---|---|---|---|
| 14 | E | 106622 | Motor Stator Ass'y <0.12/0.03kW> | 3Ø 50Hz | 380V |
| | | 106445 | | | 400V |
| | | 106447 | | | 415V |
| | | 102329 | | 3Ø 60Hz | 220V |
| | | 102330 | | | 380V |
| | | 106623 | Motor Stator Ass'y <0.18/0.04kW> | 3Ø 50Hz | 380V |
| | | 106449 | | | 400V |
| | | 106448 | | | 415V |
| | | 102328 | | 3Ø 60Hz | 220V |
| | | 102327 | | | 380V |
| | | 106625 | Motor Stator Ass'y <0.37/0.09kW> | 3Ø 50Hz | 380V |
| | | 106440 | | | 400V |
| | | 106469 | | | 415V |
| | | 104225 | | 3Ø 60Hz | 220V |
| | | 104226 | | | 380V |
| | | 101817 | | | 460V |
| | F | 106436 | Motor Stator Ass'y <0.12kW> | 3Ø 50Hz | 220V/380V |
| | | 106446 | | | 400V |
| | | 106452 | | | 415V |
| | | 106437 | Motor Stator Ass'y <0.18kW> | 3Ø 50Hz | 220V/380V |
| | | 106433 | | | 400V |
| | | 106432 | | | 415V |
| | | 106438 | Motor Stator Ass'y <0.37kW> | 3Ø 50Hz | 220V/380V |
| | | 106434 | | | 400V |
| | | 106435 | | | 415V |


REDUCING GEAR EXPLOSION <0.6kW>
1
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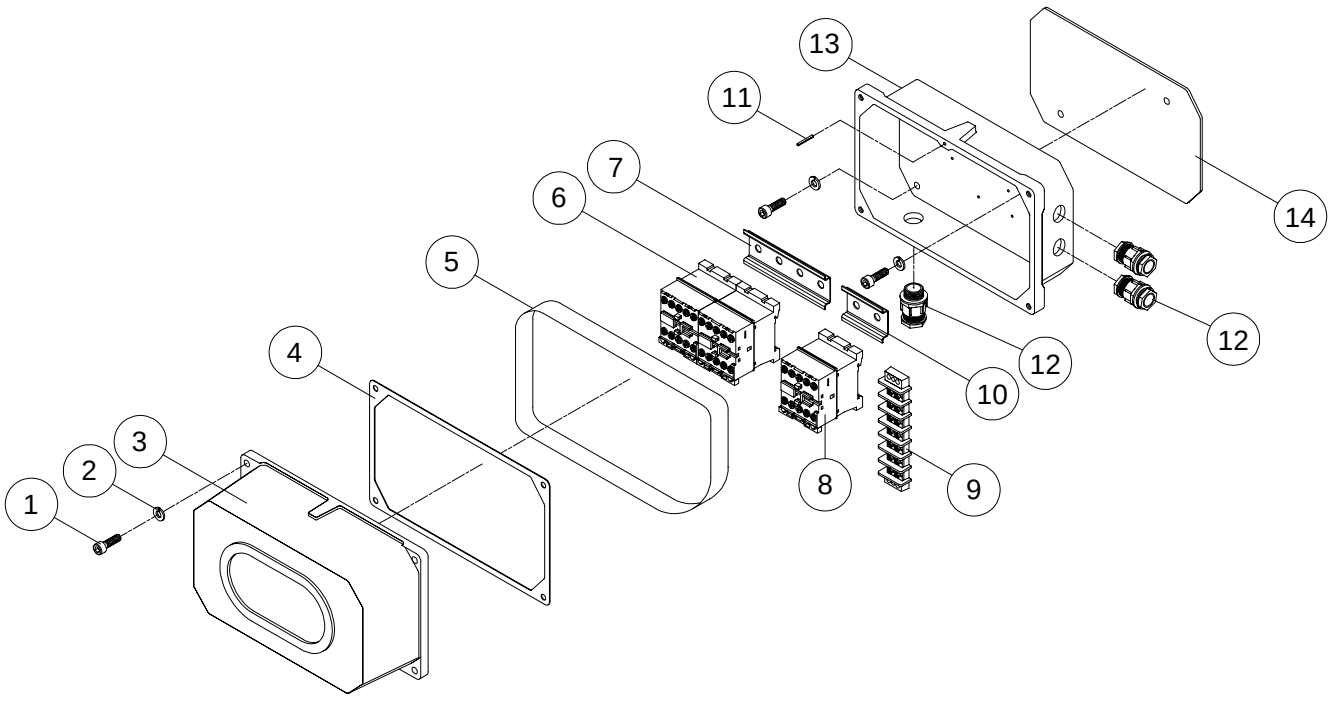
# REDUCING GEAR MOTOR B.O.M.

| NO. | PARTS CODE | DESCRIPTION | Q'TY REQ'D EACH UNIT |
|---|---|---|---|
| | | | 0.6kW |
| 1 | 108098 | Brake End Cover | 1 |
| 2 | 400620 | Cross Headed Screw < M5×0.8×8L> | 4 |
| 3 | 400093 | Spring Washer <M5> | 4 |
| 4 | 408636 | Hex. Bolt <M5×0.8×160> | 4 |
| 5 | 108096 | Brake Ass'y (SBV-YS-071A) | 1 |
| 6 | 404413 | Oil Seal < Ø17×Ø35×8t> | 1 |
| 7 | 400732 | Bearing <6203 ZZ > | 1 |
| 8 | 404184 | Retaining Ring <S-17> | 1 |
| 9 | G | Motor Stator Ass'y < 0.6/0.15kW> | 1 |
| | H | Motor Stator Ass'y < 0.6kW> | |
| 10 | 100617 | Motor Rotor <Ø64×80×228> | 1 |
| 11 | 400130 | Bearing <6204 ZZ > | 1 |
| 12 | 400186 | Oil Seal <Ø35×Ø20×8t> | 1 |
| 13 | 200063 | Flange | 1 |
| 14 | 400212 | Spring Pin <Ø5×16L> | 2 |
| 15 | 402679 | Gearbox Gasket | 1 |
| 16 | 400192 | Retaining Ring <S-25> | 1 |
| 17 | 228639 | 4th Gear <M1.75x47T> | 1 |
| 18 | 407807 | Bearing <6205 ZZ > | 2 |
| 19 | 404493 | Oil Seal < Ø52×Ø32×11t > | 1 |
| 20 | 217110 | Transmission Shaft < Ø32×147.5> | 1 |
| 21 | 407850 | Bearing <6203 ZZ > | 2 |
| 22 | 228637 | 2nd Gear <M1.25×71T> | 1 |
| 23 | 400963 | Key <6×6×15> | 1 |
| 24 | 228638 | 3rd Gear <M1.75×13T> | 1 |
| 25 | 271838 | Gearbox A | 1 |
| 26 | 400094 | Spring Washer <M6> | 8 |
| 27 | 400006 | Hex. Recess Bolt < M6×1.0×16> | 8 |
| 28 | 400193 | Retaining<S-30> | 2 |
| 29 | 400947 | Key <5×5×25> | 1 |

| NO. | PARTS CODE | | DESCRIPTION | Ø - Hz- V | |
|---|---|---|---|---|---|
| 9 | G | 108089K | Motor Stator Ass'y <0.6/0.15kW> | 3Ø 50Hz | 380V |
| | | 108688K | | | 400V |
| | | 108165K | | | 415V |
| | H | 108699K | Motor Stator Ass'y <0.6kW> | 3Ø 50Hz | 380V |
| | | 108777K | | | 400V |
| | | 108778K | | | 415V |

# ELECTRIC EXPLOSION

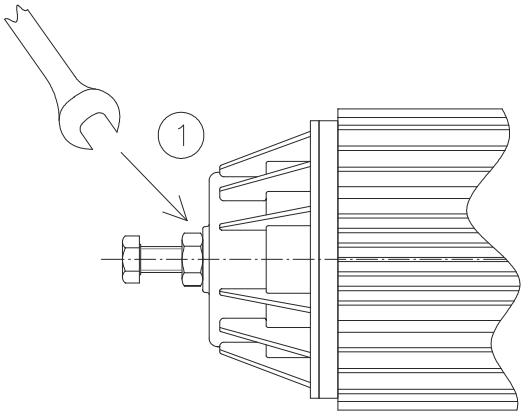
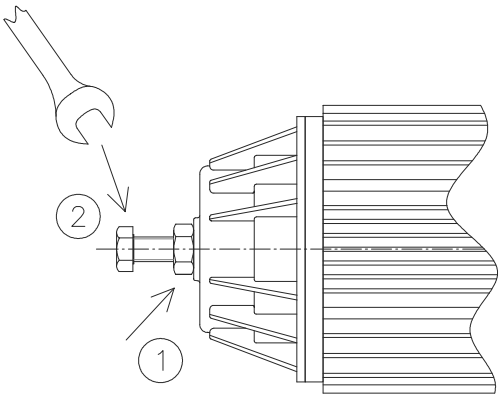



# ELECTRIC PARTS B.O.M.

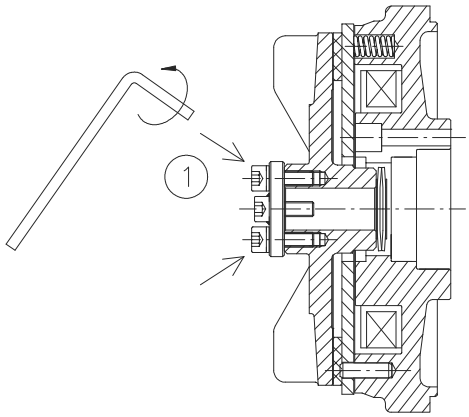
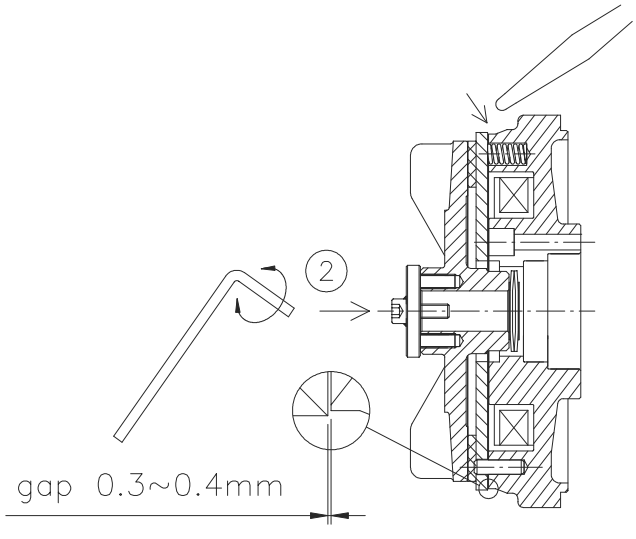
D : DUAL SPEED

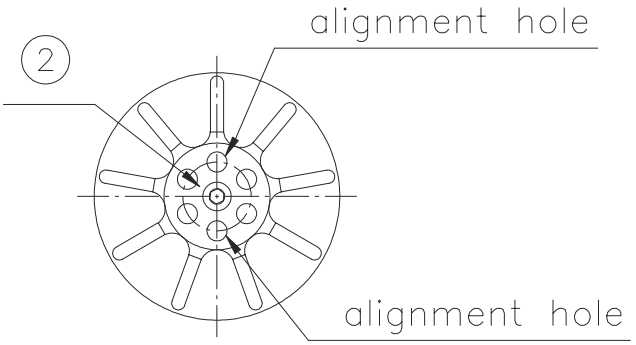
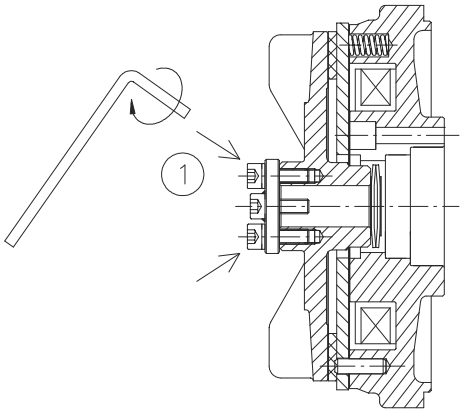
| NO. | PARTS CODE | DESCRIPTION | Q'TY REQ'D EACH UNIT |
|---|---|---|---|
| 1 | 400006 | Hex. Recess Bolt <M6×1.0×16L> | 6 |
| 2 | 400094 | Spring Washer <M6> | 6 |
| 3 | 300348K | Electric Housing Cover | 1 |
| 4 | 402515 | Gasket #15 | 1 |
| 5 | 400266 | Rubber Band | 1 |
| 6 | 301102 | Magnetic Contactor 48V <LC1-D09-E7> | 2 |
| | 301101 | Magnetic Contactor 24V< LC1-D09-B7> | |
| 7 | 300079 | Contactor Rail <2PC> | 1 |
| 8 | 300036 | Magnetic Contactor 48V<LC1-D128-E7> | 1D |
| | 300035 | Magnetic Contactor 24V<LC1-D128-F7> | |
| 9 | 300636 | Terminal Block | 1 |
| 10 | 300078 | Contactor Rail <1PC> | 1D |
| 11 | 400211 | Spring Pin <Ø3×14L> | 1 |
| 12 | 400222 | Cable Gland <M20> | 3 |
| 13 | 300303K | Electric Housing | 1 |
| 14 | 402516 | Gasket #16 | 1 |

## IX.Method of adjusting motor brake gap <NT(D)-050-1/100-2/100-1/200-2/200-1>

| Time to adjust | |
|---|---|
| 1.When the brake function affects the operation of hoist<br>2.Brake lining motion causes abnormal noise<br>※Note：To prevent risks , the hoist must be in unload and power-off during the adjustment | |
| **Tools needed** | **Figure** |
| Open-end wrench |  |
| **Method of adjusting** | **Figure** |
| (1) Use open-end wrench to loosen ①nut. |  |
| (2) Tighten ② set screw and then back off 2 turns.<br>(3) Tighten ① nut again |  |

## IX.Method of adjusting motor brake gap <NT(D)-300-2/500-2>

<table>
<tr><th colspan="2">Time to adjust</th></tr>
<tr><td colspan="2">1. When the brake function affects the operation of hoist.<br>2. Brake lining motion causes abnormal noise.<br>3. Brake gap is over 0.7mm.<br>※Note：To prevent risks , the hoist must be in unload and power-off during the adjustment</td></tr>
<tr><th>Tools needed</th><th>Figure</th></tr>
<tr><td>A. Hex Wrench<br>B. Thickness gauge</td><td>   <br>A B</td></tr>
<tr><th>Method of adjusting</th><th>Figure</th></tr>
<tr><td>(1) Use Hex wrench to loosen ① set screw and take if off.</td><td>  </td></tr>
<tr><td>(2) Use Hex wrench to adjust ②gap screw.<br>(3) Apply with thickness gauge when adjusting the gap.<br>(4) Gap value : about 0.3~0.4mm.</td><td>  </td></tr>
</table>

| | |
|---|---|
| (5) Adjust ②gap screw slightly, align the holes. |  |
| (6) Reinstall ①set screw and tighten it. |  |

TÜV SÜD ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

CE

TÜV SÜD Product Service

# Attestation of Conformity

**No. M8A 004703 0007 Rev. 00**

**Holder of Certificate:** **CHENG DAY MACHINERY WORKS CO., LTD.**
No.173, Wen Chiu Rd.
Dajia Dist.
437 Taichung City
TAIWAN

**Product:** **Lifting equipment**
**Electric Chain Hoist**

This Attestation of Conformity is issued on a voluntary basis according to Council Directive 2006/42/EC relating to machinery. It confirms that the listed equipment (not Annex IV equipment) complies with the principal protection requirements of the directive. It refers only to the sample submitted to TÜV SÜD Product Service GmbH for testing and certification. For details see: www.tuvsud.com/ps-cert

**Test report no.:** 615202002301

**Date,** 2021-03-18

Li Taiwei

( Taiwei LI )



After preparation of the necessary technical documentation as well as the EC declaration of conformity the required CE marking can be affixed on the product. Other relevant directives have to be observed.

TÜV®

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

CE

TÜV SÜD Product Service

# Attestation of Conformity

**No. M8A 004703 0007 Rev. 00**

**Model(s):**

**N Series**

NH-012-1, NH-025-1, NH-050-2, NH-050-1,
NH-100-2, NH-100-1, NH-200-2, NH-200-1,
NH-250-1, NH-300-2, NH-500-2

NHD-012-1, NHD-025-1, NHD-050-2, NHD-050-1,
NHD-100-2, NHD-100-1, NHD-200-2, NHD-200-1,
NHD-250-1, NHD-300-2, NHD-500-2

NHV-012-1, NHV-025-1, NHV-050-2, NHV-050-1,
NHV-100-2, NHV-100-1, NHV-200-2, NHV-200-1,
NHV-250-1, NHV-300-2, NHV-500-2

NHT-025-1, NHT-050-2, NHT-050-1, NHT-100-2,
NHT-100-1, NHT-200-2

NHTD-025-1, NHTD-050-2, NHTD-050-1,
NHTD-100-2, NHTD-100-1, NHTD-200-2

NHTV-025-1, NHTV-050-2, NHTV-050-1,
NHTV-100-2, NHTV-100-1, NHTV-200-2

WNH-012, WNH-025, WNH-050, WNH-100

NT-012-1, NT-025-1, NT-050-2, NT-050-1, NT-100-2,
NT-100-1, NT-200-2, NT-200-1, NT-300-2, NT-500-2

NTD-012-1, NTD-025-1, NTD-050-2, NTD-050-1,
NTD-100-2, NTD-100-1, NTD-200-2, NTD-200-1,
NTD-300-2, NTD-500-2

NTV-012-1, NTV-025-1, NTV-050-2, NTV-050-1,
NTV-100-2, NTV-100-1, NTV-200-2, NTV-200-1,
NTV-300-2, NTV-500-2

WNT-012, WNT-025, WNT-050, WNT-100

SH-012-1-D8+, SH-025-1, SH-025-1-D8,
SH-025-1-D8+, SH-050-1, SH-050-1-D8+,
SH-100-1, SH-100-1-D8, SH-100-1-D8+,
SH-200-2, SH-200-1



After preparation of the necessary technical documentation as well as the EC declaration of conformity the required CE marking can be affixed on the product. Other relevant directives have to be observed.

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CE

TÜV SÜD Product Service

# Attestation of Conformity

**No. M8A 004703 0007 Rev. 00**

**Trade name:** **Black Bear, U-MEGA, Yong Sheng**

Black Bear U-MEGA Yong Sheng



After preparation of the necessary technical documentation as well as the EC declaration of conformity the required CE marking can be affixed on the product. Other relevant directives have to be observed.

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TÜV SÜD Product Service

# Attestation of Conformity

**No. M8A 004703 0007 Rev. 00**

**Parameters:**

Rated voltage: 230/400 Vac
Rated frequency: 50 Hz
Rated power: As below

0.12kW (NT-012-1, NT-025-1, NT-050-2, NT-050-1, NTD-012-1, NTD-025-1, NTD-050-2, NTD-050-1, NTV-012-1, NTV-025-1, NTV-050-2, NTV-050-1, WNT-012, WNT-025)
0.18kW (NT-100-2, NT-100-1, NTD-100-2, NTD-100-1, NTV-100-2, NTV-100-1, WNT-050, WNT-100)
0.2kW (SH-012-1-D8+, SH-025-1-D8)
0.25kW (SH-025-1)
0.37kW (NT-200-2, NT-200-1, NTD-200-2, NTD-200-1, NTV-200-2, NTV-200-1)
0.4kW (SH-025-1-D8+, SH-050-1)
0.6kW (NH-012-1, NH-025-1, NH-050-2, NHD-012-1, NHD-025-1, NHD-050-2, NHV-012-1, NHV-025-1, NHV-050-2, WNH-012, NT-300-2, NT-500-2, NTD-300-2, NTD-500-2, NTV-300-2, NTV-500-2)
0.72kW (NHT-025-1, NHT-050-2, NHTD-025-1, NHTD-050-2, NHTV-025-1, NHTV-025-2)
0.75kW (SH-050-1-D8+, SH-100-1, SH-100-1-D8)
1.1kW (NH-050-1, NH-100-2, NHD-050-1, NHD-100-2, NHV-050-1, NHV-100-2)
1.22kW (NHT-050-1, NHTD-050-1, NHTV-050-1)
1.28kW (NHT-100-2, NHTD-100-2, NHTV-100-2)
1.5kW (NH-100-1, NH-200-2, SH-100-1-D8+, SH-200-2, SH-200-1, NHD-100-1, NHD-200-2, NHV-100-1, NHV-200-2)
1.6kW (WNH-025)
1.68kW (NHT-100-1, NHT-200-2, NHTD-100-1, NHTD-200-2, NHTV-100-1, NHTV-200-2)
2.5kW (WNH-050, WNH-100)
3.7kW (NH-200-1, NH-250-1, NH-300-2, NH-500-2, NHD-200-1, NHD-250-1, NHD-300-2, NHD-500-2, NHV-200-1, NHV-250-1, NHV-300-2, NHV-500-2)

**Tested according to:**

EN ISO 12100:2010
EN 60204-32:2008
EN 14492-2:2019



After preparation of the necessary technical documentation as well as the EC declaration of conformity the required CE marking can be affixed on the product. Other relevant directives have to be observed.

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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

CE

TÜV SÜD Product Service

# Attestation of Conformity

**No. N8MA 004703 0012 Rev. 00**

**Holder of Certificate:** **CHENG DAY MACHINERY WORKS CO., LTD.**
No.173, Wen Chiu Rd.
Dajia Dist.
437 Taichung City
TAIWAN

**Product:** **Lifting equipment**
**Electric Chain Hoist**

This Attestation of Conformity confirms that the listed machine complies with the essential electrical safety requirements covered by the directive 2006/42/EC on machinery. These are equivalent to the applying essential protection requirements applicable at the time of issuance as set out in Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It is issued on a voluntary basis and refers only to the particular sample submitted for testing and certification. For details see: www.tuvsud.com/ps-cert

**Test report no.:** 615202002301

**Date,** 2021-03-18

Li Taiwei

( Taiwei LI )



After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.

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# Attestation of Conformity

**No. N8MA 004703 0012 Rev. 00**

**Model(s):**

**N Series**

NH-012-1, NH-025-1, NH-050-2, NH-050-1, NH-100-2, NH-100-1, NH-200-2, NH-200-1, NH-250-1, NH-300-2, NH-500-2

NHD-012-1, NHD-025-1, NHD-050-2, NHD-050-1, NHD-100-2, NHD-100-1, NHD-200-2, NHD-200-1, NHD-250-1, NHD-300-2, NHD-500-2

NHV-012-1, NHV-025-1, NHV-050-2, NHV-050-1, NHV-100-2, NHV-100-1, NHV-200-2, NHV-200-1, NHV-250-1, NHV-300-2, NHV-500-2

NHT-025-1, NHT-050-2, NHT-050-1, NHT-100-2, NHT-100-1, NHT-200-2

NHTD-025-1, NHTD-050-2, NHTD-050-1, NHTD-100-2, NHTD-100-1, NHTD-200-2

NHTV-025-1, NHTV-050-2, NHTV-050-1, NHTV-100-2, NHTV-100-1, NHTV-200-2

WNH-012, WNH-025, WNH-050, WNH-100

NT-012-1, NT-025-1, NT-050-2, NT-050-1, NT-100-2, NT-100-1, NT-200-2, NT-200-1, NT-300-2, NT-500-2

NTD-012-1, NTD-025-1, NTD-050-2, NTD-050-1, NTD-100-2, NTD-100-1, NTD-200-2, NTD-200-1, NTD-300-2, NTD-500-2

NTV-012-1, NTV-025-1, NTV-050-2, NTV-050-1, NTV-100-2, NTV-100-1, NTV-200-2, NTV-200-1, NTV-300-2, NTV-500-2

WNT-012, WNT-025, WNT-050, WNT-100

SH-012-1-D8+, SH-025-1, SH-025-1-D8, SH-025-1-D8+, SH-050-1, SH-050-1-D8+, SH-100-1, SH-100-1-D8, SH-100-1-D8+, SH-200-2, SH-200-1



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Product Service

# Attestation of Conformity

**No. N8MA 004703 0012 Rev. 00**

**Brand:** **Black Bear, U-MEGA, Yong Sheng**

Black Bear U-MEGA Yong Sheng



After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.

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CE

TÜV SÜD Product Service

# Attestation of Conformity

**No. N8MA 004703 0012 Rev. 00**

**Parameters:**

Rated voltage: 230/400 Vac
Rated frequency: 50 Hz
Rated power: As below

0.12kW (NT-012-1, NT-025-1, NT-050-2, NT-050-1, NTD-012-1, NTD-025-1, NTD-050-2, NTD-050-1, NTV-012-1, NTV-025-1, NTV-050-2, NTV-050-1, WNT-012, WNT-025)
0.18kW (NT-100-2, NT-100-1, NTD-100-2, NTD-100-1, NTV-100-2, NTV-100-1, WNT-050, WNT-100)
0.2kW (SH-012-1-D8+, SH-025-1-D8)
0.25kW (SH-025-1)
0.37kW (NT-200-2, NT-200-1, NTD-200-2, NTD-200-1, NTV-200-2, NTV-200-1)
0.4kW (SH-025-1-D8+, SH-050-1)
0.6kW (NH-012-1, NH-025-1, NH-050-2, NHD-012-1, NHD-025-1, NHD-050-2, NHV-012-1, NHV-025-1, NHV-050-2, WNH-012, NT-300-2, NT-500-2, NTD-300-2, NTD-500-2, NTV-300-2, NTV-500-2)
0.72kW (NHT-025-1, NHT-050-2, NHTD-025-1, NHTD-050-2, NHTV-025-1, NHTV-025-2)
0.75kW (SH-050-1-D8+, SH-100-1, SH-100-1-D8)
1.1kW (NH-050-1, NH-100-2, NHD-050-1, NHD-100-2, NHV-050-1, NHV-100-2)
1.22kW (NHT-050-1, NHTD-050-1, NHTV-050-1)
1.28kW (NHT-100-2, NHTD-100-2, NHTV-100-2)
1.5kW (NH-100-1, NH-200-2, SH-100-1-D8+, SH-200-2, SH-200-1, NHD-100-1, NHD-200-2, NHV-100-1, NHV-200-2)
1.6kW (WNH-025)
1.68kW (NHT-100-1, NHT-200-2, NHTD-100-1, NHTD-200-2, NHTV-100-1, NHTV-200-2)
2.5kW (WNH-050, WNH-100)
3.7kW (NH-200-1, NH-250-1, NH-300-2, NH-500-2, NHD-200-1, NHD-250-1, NHD-300-2, NHD-500-2, NHV-200-1, NHV-250-1, NHV-300-2, NHV-500-2)

**Tested according to:**

EN ISO 12100:2010
EN 60204-32:2008
EN 14492-2:2019



After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.

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