

Motorized Trolley

Operation Manual

&

Parts List

Series:

- | | |
|--|-------------------------------------|
| ☐ UT(D)-1,2,305 | ☐ UT(D)-330 |
| ☐ UT(D)-1,2,310 | ☐ UT(D)-350 |
| ☐ UT(D)-1,2,320 | ☐ UT(D)-375 |
| | ☐ UT(D)-3100 |



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.



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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 or 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: 1-Ton, 2-Ton, 3-Ton, 5-Ton, 7.5-Ton, and 10-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 trackwheels 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-54 protection optionally. Please refer to Illust: 5 on page 13.

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 (UH-500 series), 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 trackwheel 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 trackwheels to clear beam flange. Lift the trolley up so that the trackwheels are riding on the beam and draw the side frames together and tighten the nuts snugly.

3. HOIST TO TROLLEY

There are four different ways of assembling the hoist to trolley:

(a) Hoist to trolley with top hook

(Please refer to Illust.:1)

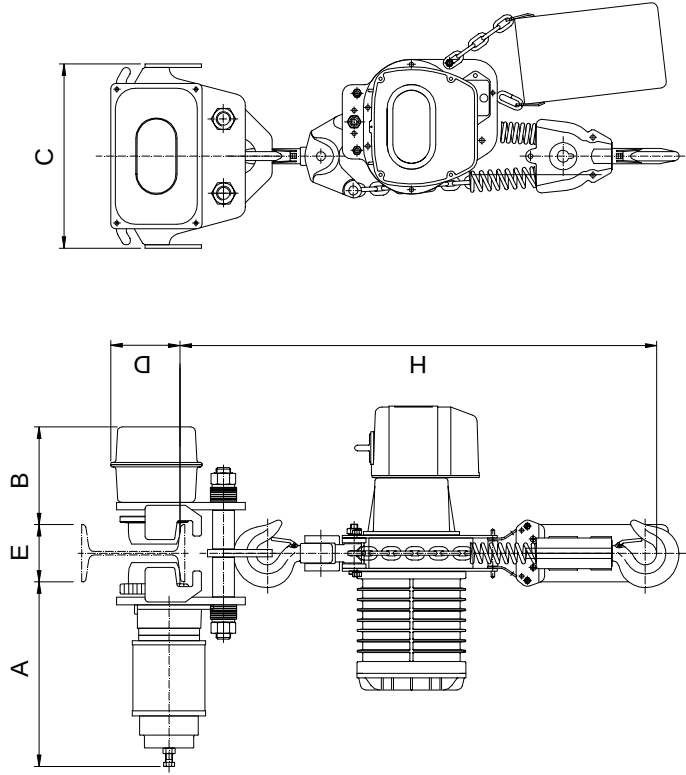
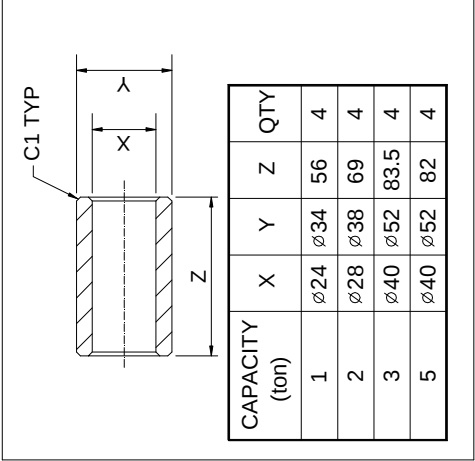
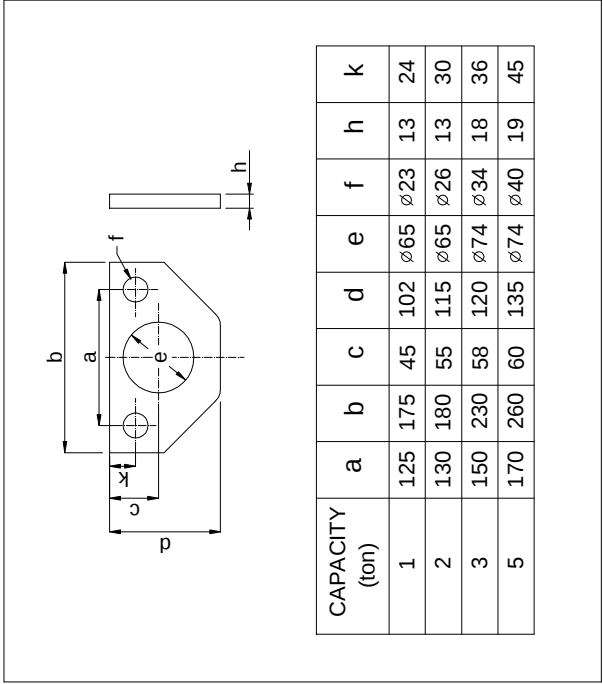
(b) Hoist to trolley with "E" type rigid hook

(Please refer to Illust.:2)

(c) Hoist to trolley with "A" type rigid hook

(Please refer to Illust.:3)

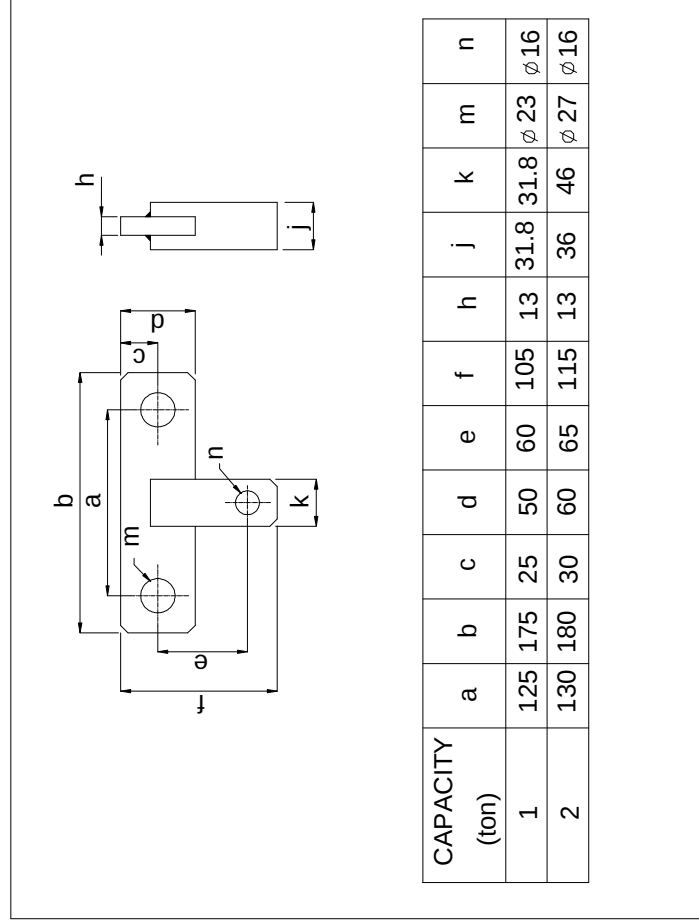
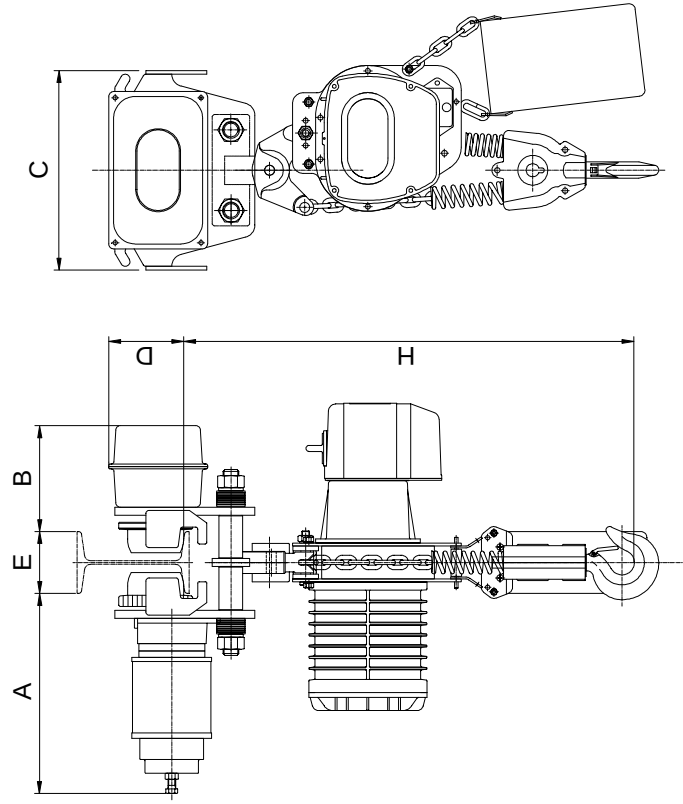
HOIST TO TROLLEY WITH TOP HOOK



S.W.L. T	HOIST	TROLLEY	H	A	B	C	D	TROLLEY (kW)	SPACER 1/8"t	BEAM (E)	TURNING RADIUS
1	UH-110,210,310,410	UT-1,2,310	705	328	173	294	98	0.25	32	75-125	1.3m
2	UH-120,220,320,420	UT-1,2,320	935	328	173	322	111	0.25	32	100-150	1.5m
3	UH-330,430	UT-330	1030	368	180	356	117	0.6	32	125-175	1.8m
2	UH-520	UT-320	995	328	173	322	111	0.25	32	100-150	1.5m
3	UH-530	UT-330	1120	368	180	356	117	0.6	32	125-175	1.8m
5	UH-550	UT-350	1200	372	184	386	127	0.6	32	125-175	2m

Illust.:1

HOIST TO TROLLEY WITH TYPE "E" RIGID HOOK

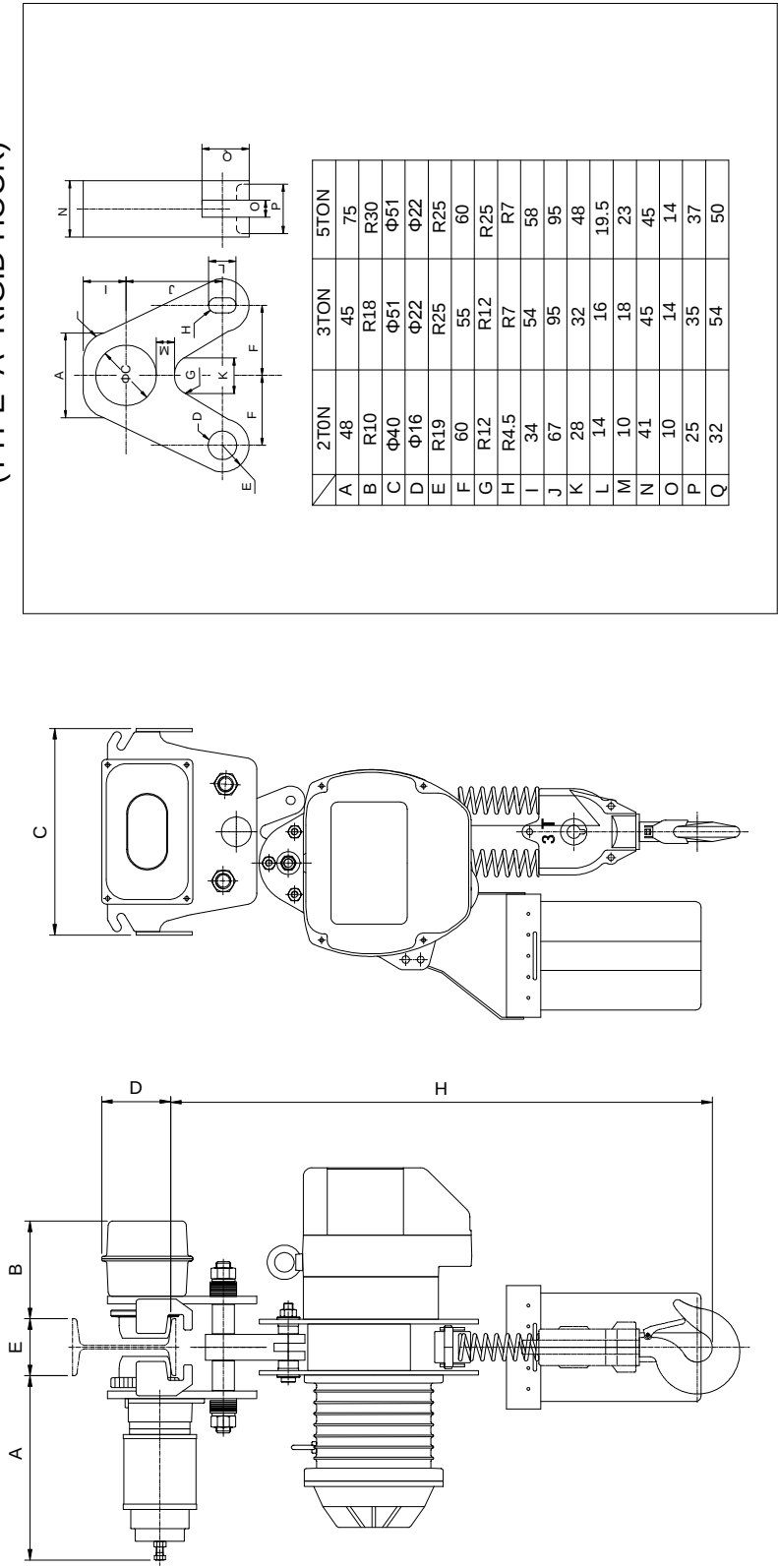


S.W.L. T	HOIST	TROLLEY	A	B	C	D	H	TROLLEY (kW)	SPACER 1/8"t	BEAM (E)	TURNING RADIUS
1	UH-110,210,310,410	UT-1,2,310	328	173	294	98	705	0.25	32	75-125	1.3M
2	UH-120,220,320,420	UT-1,2,320	328	173	322	111	935	0.25	32	100-150	1.5M
2	UH-520	UT-320	328	173	322	111	995	0.25	32	100-150	1.5M

MA002

HOIST TO TROLLEY WITH TYPE "A" RIGID HOOK

(TYPE "A" RIGID HOOK)



S.W.L. T	HOIST	TROLLEY	A	B	C	D	H	TROLLEY SPACER 1/8"t (kW)	BEAM (E)	TURNING RADIUS
3	UH-530	UT-330	368	180	356	117	1120	0.6	125-175	1.8M
5	UH-550	UT-350	372	184	386	127	1200	0.6	125-175	2M

4. ELECTRICAL INSTALLATION

The trolley electrical connection must be completed as shown in Illust.5, 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.5. 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 (Illust.6 & 7). Also be noted that the above mentioned diagrams only acceptable for the standard units of 3-phase & 1-phase.

Hoist with trolley wiring diagram shown example as follows:

- C20023 is 3 phases, single speed model, Please refer to page 13.
- C30031 is 3 phases, dual speed model, Please refer to page 13.
- C40010 is 1 phases, 220V~230V, Please refer to page 14.
- C40012 is 1 phases, 220V~230V, Please refer to page 14.

For special unit, please see wiring diagram supplied with unit.

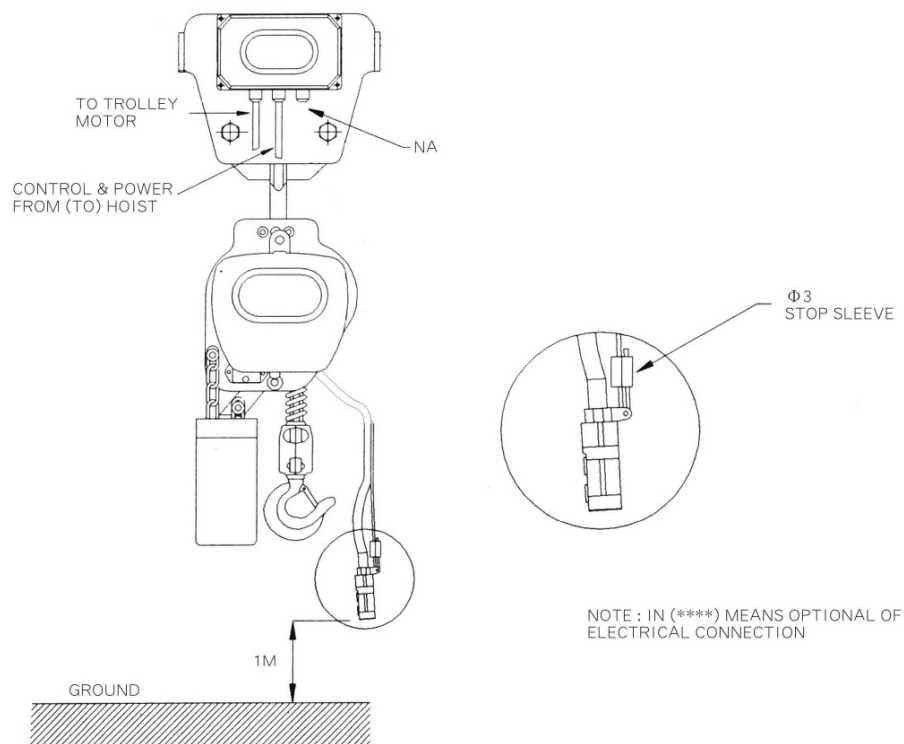


Power should be disconnected when making or changing connections, also proper grounding should be accomplished.

5. TEST RUNNING

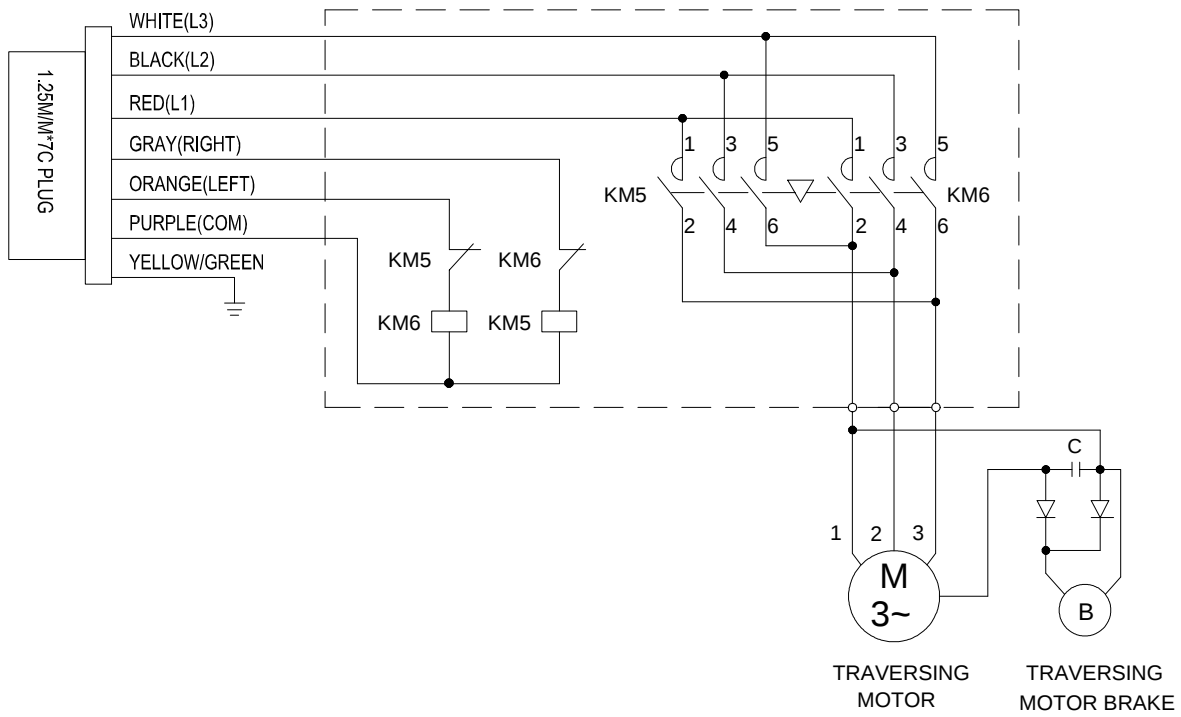
After trolley to beam, hoist hook to trolley and wiring connection completed, operate the trolley forward and backward over a short distance. Then you can operate the trolley over the entire length of runway or monorail system to be sure that all adjustment and operations are satisfactory.

HOIST & TROLLEY GENERAL ARRANGEMENT



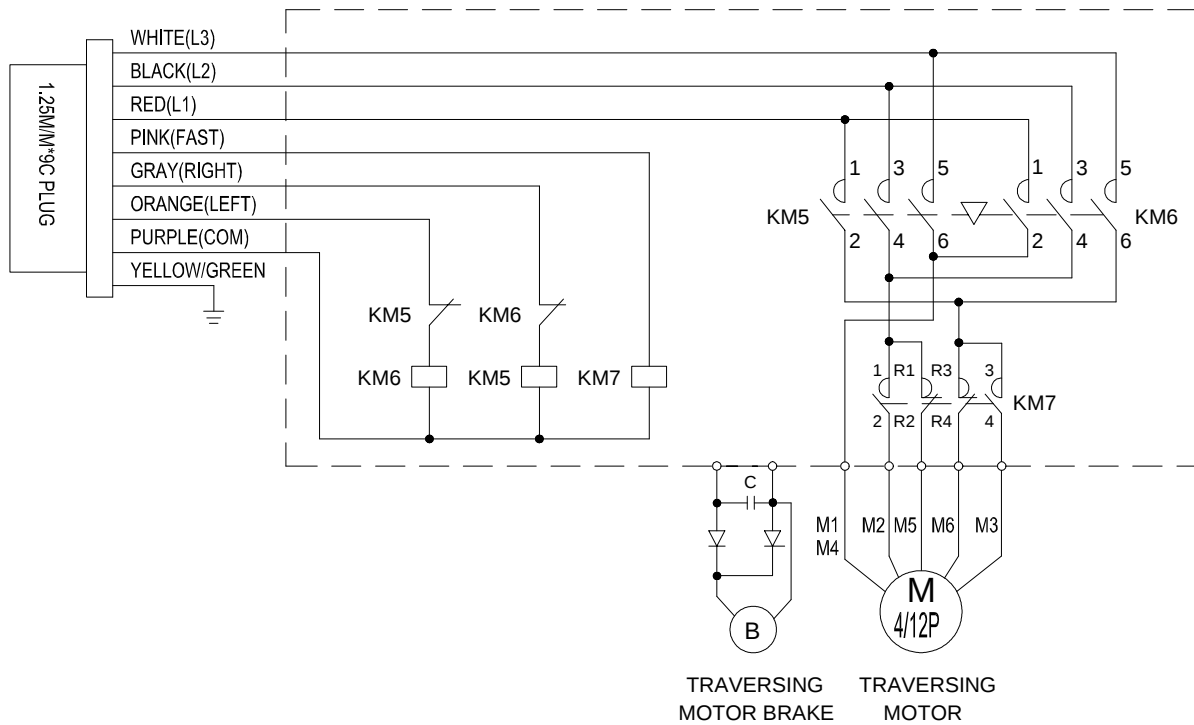
Illust.5

TROLLEY FOR SINGLE SPEED



C20023

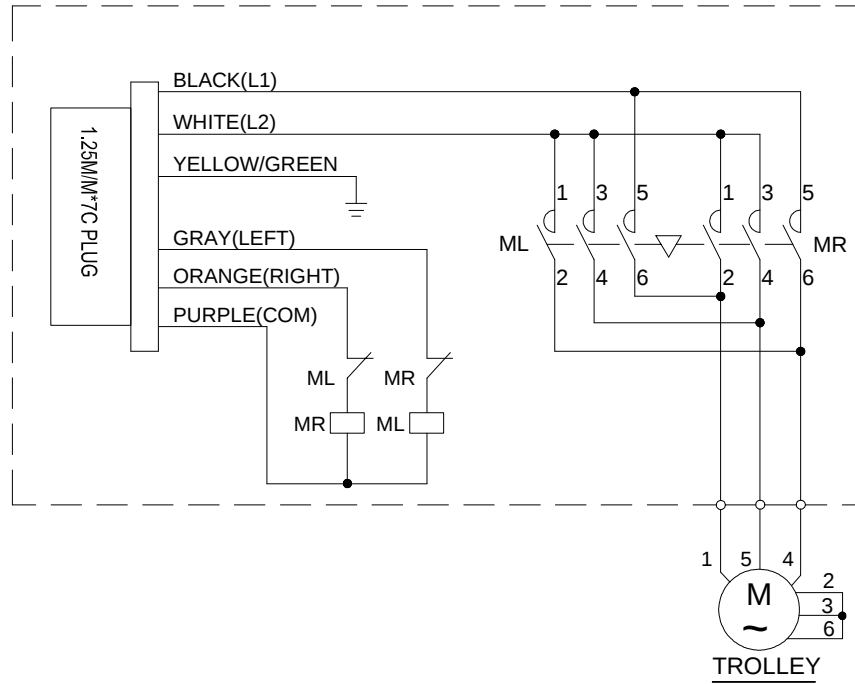
TROLLEY FOR DUAL SPEED



C30031

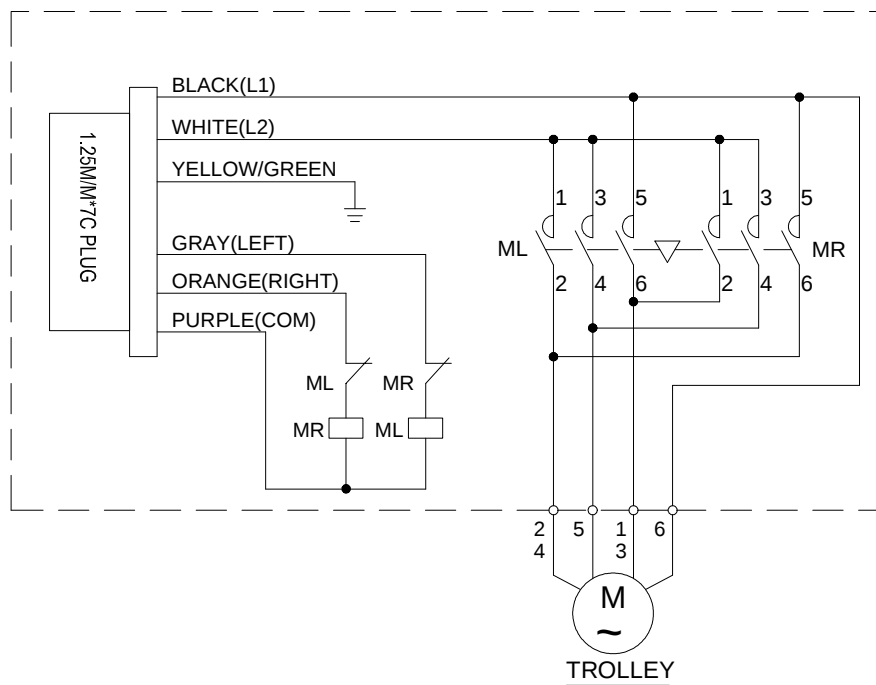
Illust.6

TROLLEY 1 PHASES 220V~230V



C40010

TROLLEY 1 PHASES 110V~115V



C40012

Illust.7

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 the 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. (Please refer to the parts list on page 26, page 29 No.②⑧ and page 33 No.③⑥, brake adjusting hex. bolt.)

VII. TROUBLE SHOOTING

Please refer to table 1 on page 17.

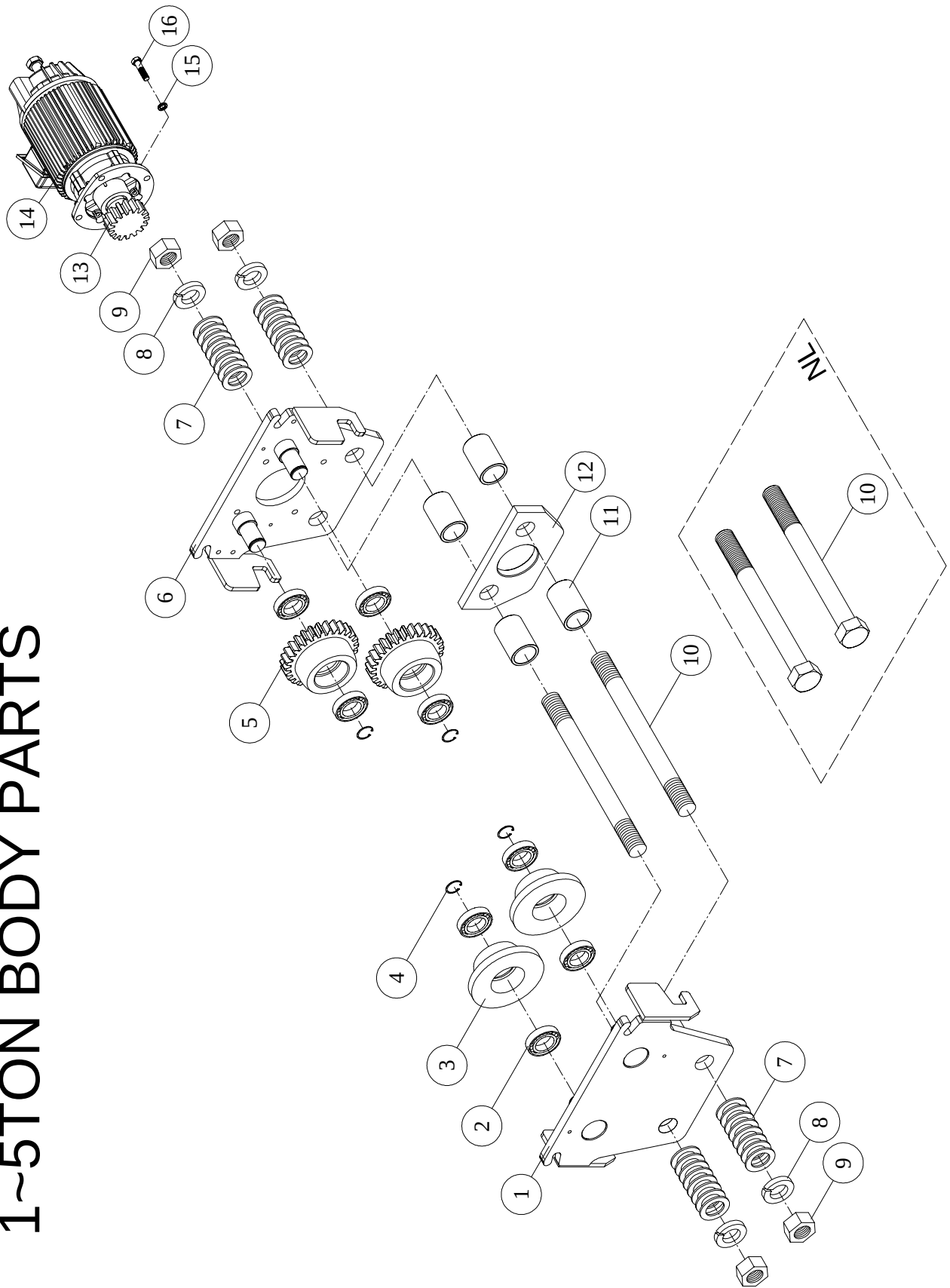
VIII. PARTS LIST (BOM)

1.Trolley Exploded view, 1~5 ton	P.18~P.20
2.Trolley Exploded view, 7.5 ton, 10 ton	P.21~P.22
3.Electric Explosion, 1~10 ton	P.23~P.25
4.Reducing Gear Motor, 0.25KW	P.26~P.28
5.Reducing Gear Motor, 0.6KW & 0.9KW	P.29~P.32
6.Reducing Gear Motor, 1.5KW	P.33~P.35

Table 1. Troubleshooting and Remedial Action

IF	CAUSE MAY BE	REMEDY
1. Trolley does not operate in either direction.	a) Power failure at trolley b) Phase error (Single phasing) c) Turn on control circuit d) Wrong voltage or frequency e) Low voltage f) Excessive load	Main line or branch circuit switch power on, branch line fuse blown or circuit breaker tripped. Power off, replace or reset. Check for grounded or connect supply lines or current collectors. Power on, grounded or connected one line of supply system, collectors, trolley wiring, reversing contactor, motor leads or windings. Check for electrical continuity. 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. The voltage and frequency must be the same as shown on trolley control box. Control power supply deviates from standard not to exceed $\pm 10\%$ to prevent abnormal operation or damage to the motor. 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 b) Low Voltage c) Worn or dirty rail	As item 1. f) As item 1. e) Clean rails, inspect for worn spots.
4. Motor overheats	a) Excessive load b) Low voltage c) Extreme external heating d) Frequent starting or reversing e) Phase error	As item 1. f) As item 1. e) Above an ambient temperature of $40^{\circ}\text{C}.$, 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. Excessive inching, jogging or plugging should be avoided since this type of operation will drastically shorten the life of motor and contactor. As item 1. e)

1~5TON BODY PARTS



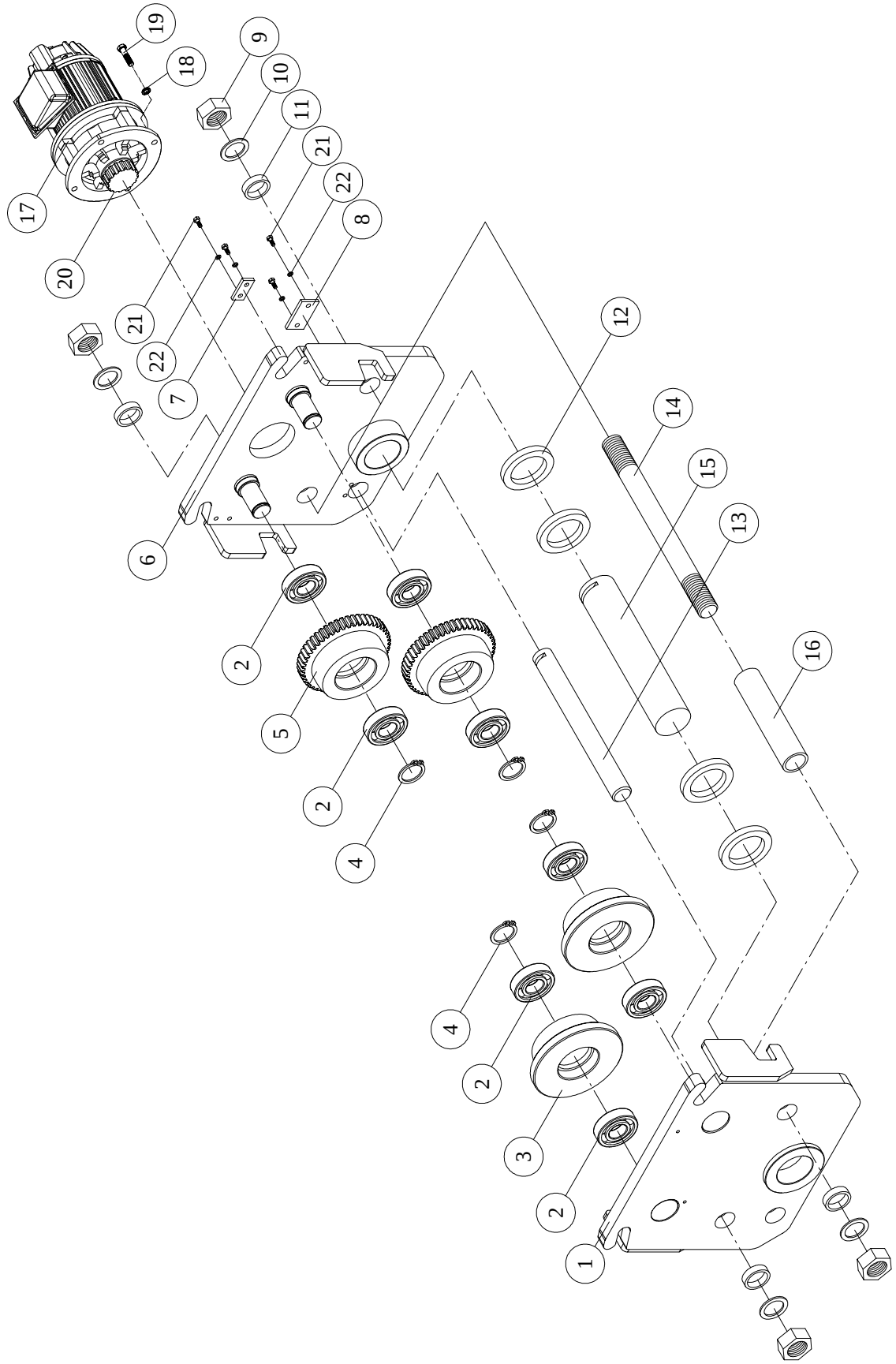
BODY PARTS B.O.M.

NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT			
			1T	2T	3T	5T
1	202961B	Electric Frame	1			
	202962B			1		
	202963B				1	
	202964B					1
2	407835	Bearing <6204 Z>	8			
	407830	Bearing <6205 Z>		8		
	407824	Bearing <6206 Z>			8	
	407808	Bearing <6207 Z>				8
3	203131	Idler Wheel < Ø105×40L>	2			
	203132	Idler Wheel < Ø119×49L>		2		
	203133	Idler Wheel < Ø133×52L>			2	
	203134	Idler Wheel <Ø143.5×59L>				2
4	400191	Retaining Ring <S-20>	4			
	400192	Retaining Ring <S-25>		4		
	400193	Retaining Ring <S-30>			4	
	400194	Retaining Ring <S-35>				4
5	203111	Drive Wheel <M3.5×28T×47L>	2			
	203112	Drive Wheel <M3.5×32T×56L>		2		
	203113	Drive Wheel <M3.5×36T×59L>			2	
	203114	Drive Wheel <M3.5×39T×67L>				2
6	202931B	Motor Frame	1			
	202932B			1		
	202933B				1	
	202934B					1
7	203221	Spacer Washer < Ø40×Ø24×1/8">	32			
	203222	Spacer Washer < Ø46×Ø27×1/8">		32		
	203223	Spacer Washer < Ø54×Ø34×1/8">			32	
	203224	Spacer Washer <Ø60×Ø40×1/8">				32
8	400102	Spring Washer <7/8">	4			
	400103	Spring Washer <1">		4		
	400105	Spring Washer <1 1/4">			4	
	400106	Spring Washer <1 1/2">				4
	400102	Spring Washer <7/8"> (NL)	2			
	400103	Spring Washer <1"> (NL)		2		
	400105	Spring Washer <1 1/4"> (NL)			2	
	400106	Spring Washer <1 1/2"> (NL)				2

BODY PARTS B.O.M.

NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT			
			1T	2T	3T	5T
9	400070	Hex. Nut <7/8"×9UNC>	4			
	400071	Hex. Nut <1"×8UNC>		4		
	400072	Hex. Nut <1 1/4"×7UNC>			4	
	400073	Hex. Nut <1 1/2"×6UNC>				4
	400070	Hex. Nut <7/8"×9UNC> (NL)	2			
	400071	Hex. Nut <1"×8UNC> (NL)		2		
	400072	Hex. Nut <1 1/4"×7UNC> (NL)			2	
	400073	Hex. Nut <1 1/2"×6UNC> (NL)				2
10	408366	Stay Bolt <7/8"×9UNC×265L>	2			
	408369	Stay Bolt <1"×8UNC×300L>		2		
	400063	Stay Bolt <1 1/4"×7UNC×360L>			2	
	400067	Stay Bolt <1 1/2"×6UNC×390L>				2
	400491	Stay Bolt <7/8"×9UNC×254L > (NL)	2			
	400492	Stay Bolt <1"×8UNC×279.4L> (NL)		2		
	400493	Stay Bolt <1 1/4"×7UNC×329.2L> (NL)			2	
	400496	Stay Bolt <1 1/2"×6UNC×355.6L> (NL)				2
11	203151	Position Tube < Ø34×Ø24×56L>	4			
	203152	Position Tube < Ø38×Ø28×69L>		4		
	203153	Position Tube <Ø50×Ø40×83.5L>			4	4
12	203186B	Load Bracket <t13×102×175L>	1			
	203187B	Load Bracket <t13×115×180L>		1		
	203188B	Load Bracket <t16×120×230L>			1	
	203189B	Load Bracket <t19×135×260L>				1
13	201761	Transmission Pinion <0.25Kw-M3.5×16T>	1	1		
	201771	Transmission Pinion <0.6Kw-M3.5×16T>			1	1
14		Motor Ass'y-0.25Kw	1	1		
		Motor Ass'y-0.6Kw			1	1
15	400096	Spring Washer <M10>	4	4	4	4
16	400046	Hex. Head Bolt <M10×1.5×25L>	4	4	4	4

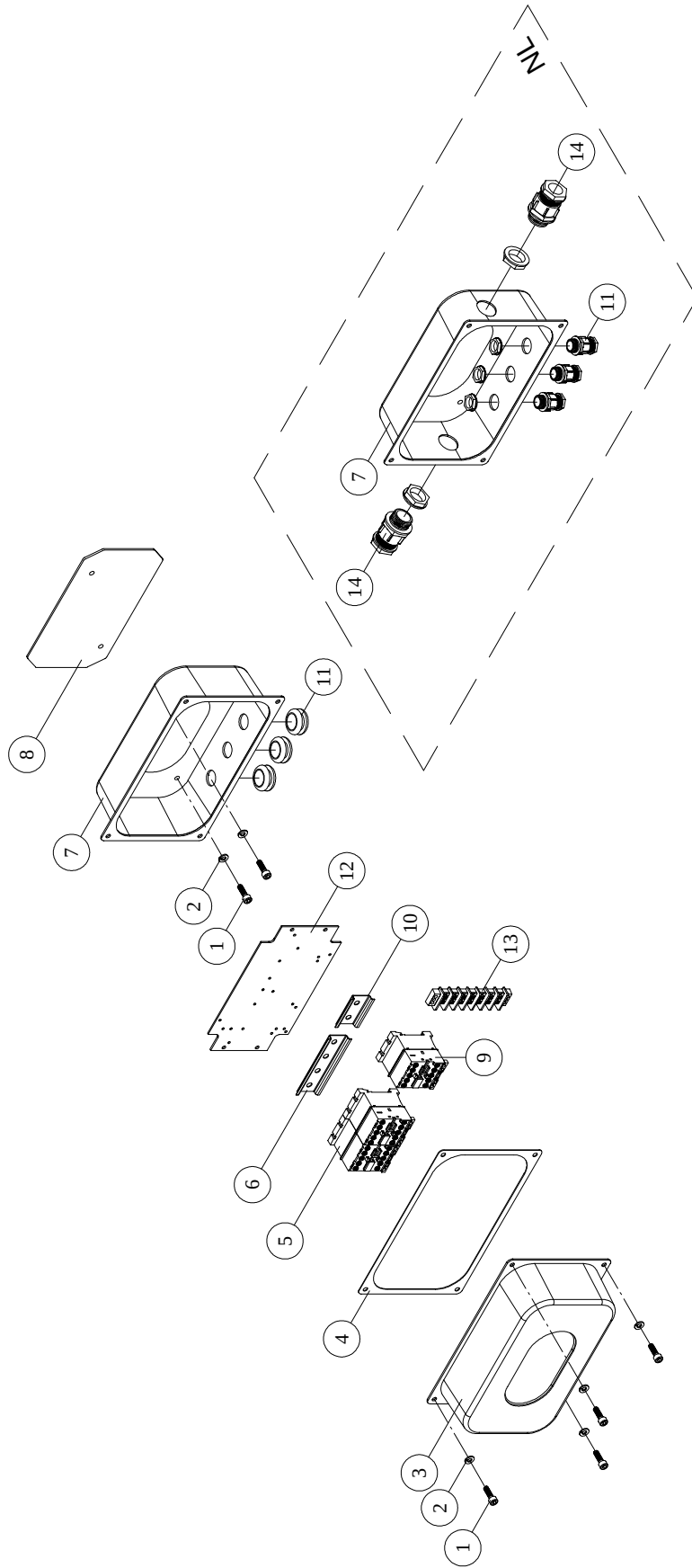
7.5~10 TON BODY PARTS



BODY PARTS B.O.M.

NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT	
			7.5T	10T
1	202965B	Electric Frame	1	
	202966B			1
2	407817	Bearing <6307 Z>	8	
	407825	Bearing <6308 Z>		8
3	203519	Idler Wheel <Ø176×60L>	2	
	204796	Idler Wheel <Ø203×63>		2
4	400194	Retaining Ring <S-35>	4	
	400195	Retaining Ring <S-40>		4
5	203501	Drive Wheel <M3.5×49T×65L>	2	
	204795	Drive Wheel <M3.5×56T×68L>		2
6	202935B	Motor Frame	1	
	202936B			1
7	200636	Stopper For Load Shaft <t6×25×50L>	1	1
8	200635	Stopper For Load Shaft <t6×38×70L>	1	1
9	400073	Hex. Nut <1 1/2"×6UNC>	4	
	400644	Hex. Nut <1 3/4"×5UNC>		4
10	400106	Spring Washer <1 1/2">	4	
	400104	Spring Washer <1 3/4">		4
11	203171	Spacer Sleeve < Ø50×Ø40×13L>	8	
	203172	Spacer Sleeve < Ø60×Ø47×13L>		8
12	203225	Spacer Ring < Ø100×Ø71×12.5L>	4	4
13	203090	Load Shaft B <Ø38×355L>	1	1
14	408374	Stay Bolt <1 1/2"×6UNC×435L>	2	
	400411	Stay Bolt <1 3/4"×5UNC×460L>		2
15	203245	Load Shaft A < Ø70×365L>	1	1
16	203155	Stay Bolt Position Tube <Ø50×Ø40×216L>	2	
	203156	Stay Bolt Position Tube <Ø60×Ø47×216L>		2
17		Motor Ass'y-0.9Kw	1	
		Motor Ass'y-1.5Kw		1
18	400096	Spring Washer <M10>	4	4
19	400047	Hex. Head Bolt <M10×1.5×30L>	4	4
20	201782	Transmission Pinion <0.9Kw-M3.5×16T>	1	
	201730	Transmission Pinion <1.5Kw-M3.5×23T>		1
21	400012	Hex. Recess Bolt <M8×1.25×20L>	4	4
22	400095	Spring Washer <M8>	4	4

ELECTRIC EXPLOSION



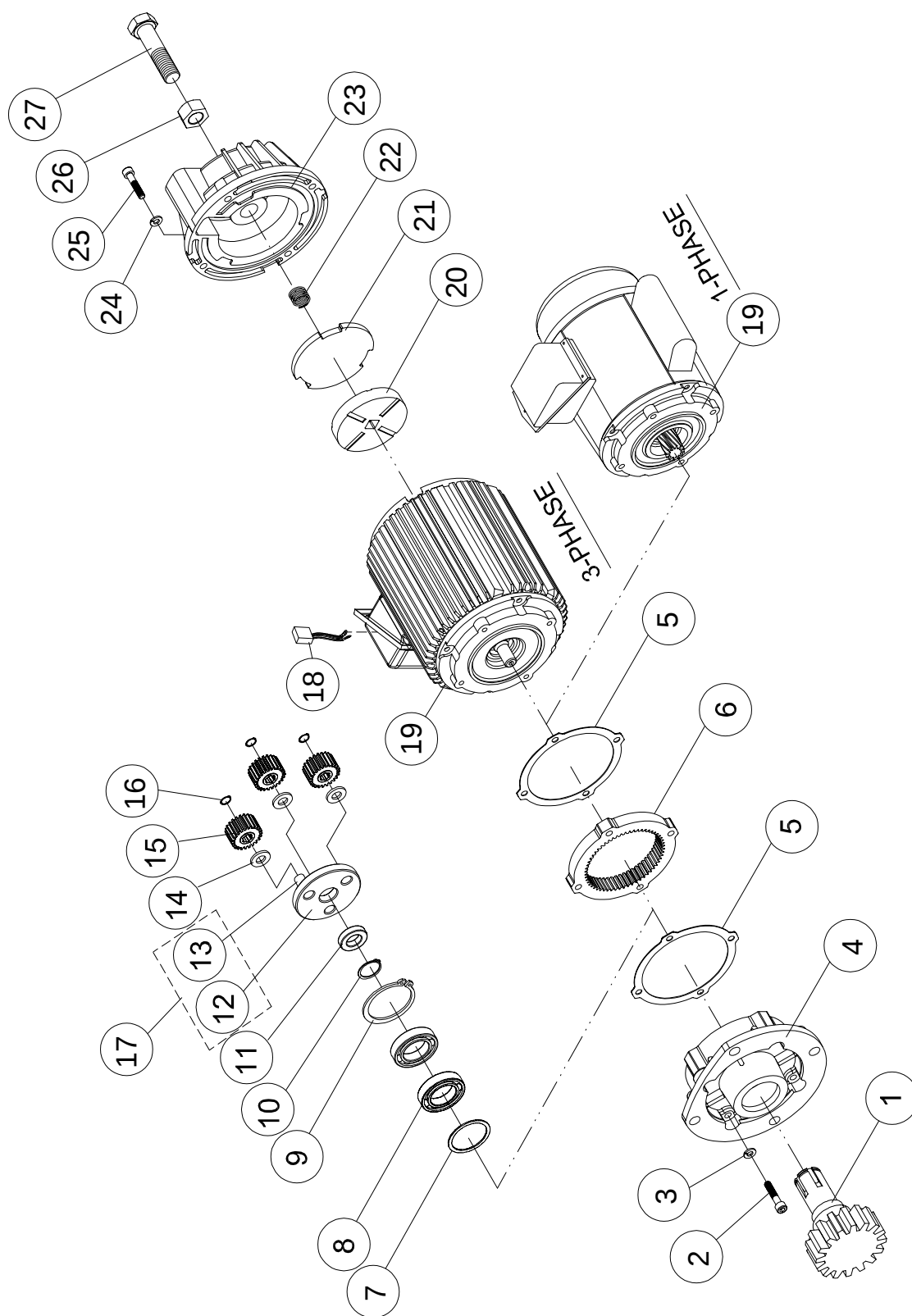
ELECTRIC PARTS B.O.M

NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT	
			UT 0.5~2T	UTD 0.5~2T
			0.25KW	0.25KW
1	400006	Hex. Recess Bolt <M6×1.0×16L>	6	6
2	400094	Spring Washer <M6>	6	6
3	300394B	Electric Housing Cover	1	1
4	402583	Gasket 68#	1	1
5	301101	Contactor <24V>	2	2
	301102	Contactor <48V>	2	2
6	300079	Contactor Rail <2PC>	1	1
7	300778B	Electric Housing	1	
	300395B	Electric Housing		1
	300399B	Electric Housing (NL)	1	1
8	402516	Gasket 16#	1	1
9	300035	Contactor <24V>		1
	300036	Contactor <48V>		1
10	300078	Contactor Rail <1PC>		1
11	400339	Rubber Cap	1	
	400270		2	3
	400941	Cable Glands (NL)	3	3
12	300392	Steady Plate		1
	300389	Steady Plate (NL)	1	1
13	300229	Terminal Blocks		1
14	400222	Cable Glands (NL)	2	2

ELECTRIC PARTS B.O.M

NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT	
			UT 3~10T	UTD 3~10T
			0.6~1.5KW	0.6~1.5KW
1	400006	Hex. Recess Bolt <M6×1.0×16L>	6	6
2	400094	Spring Washer <M6>	6	6
3	300394B	Electric Housing Cover	1	1
4	402583	Gasket 68#	1	1
5	301106	Contactor <24V>	2	2
	301107	Contactor <48V>	2	
	301102	Contactor <48V> (NL)	2	2
6	300079	Contactor Rail <2PC>	1	1
7	300778B	Electric Housing	1	
	300395B	Electric Housing		1
	300399B	Electric Housing (NL)	1	1
8	402516	Gasket 16#	1	1
9	300035	Contactor <24V>		1
	300036	Contactor <48V>		1
10	300078	Contactor Rail <1PC>		1
11	400339	Rubber Cap	1	
	400270		2	3
	400941	Cable Glands (NL)	3	3
12	300392	Steady Plate		1
	300389	Steady Plate (NL)	1	1
13	300229	Terminal Blocks		1
14	400222	Cable Glands (NL)	2	2

0.25 kw REDUCING GEAR MOTOR

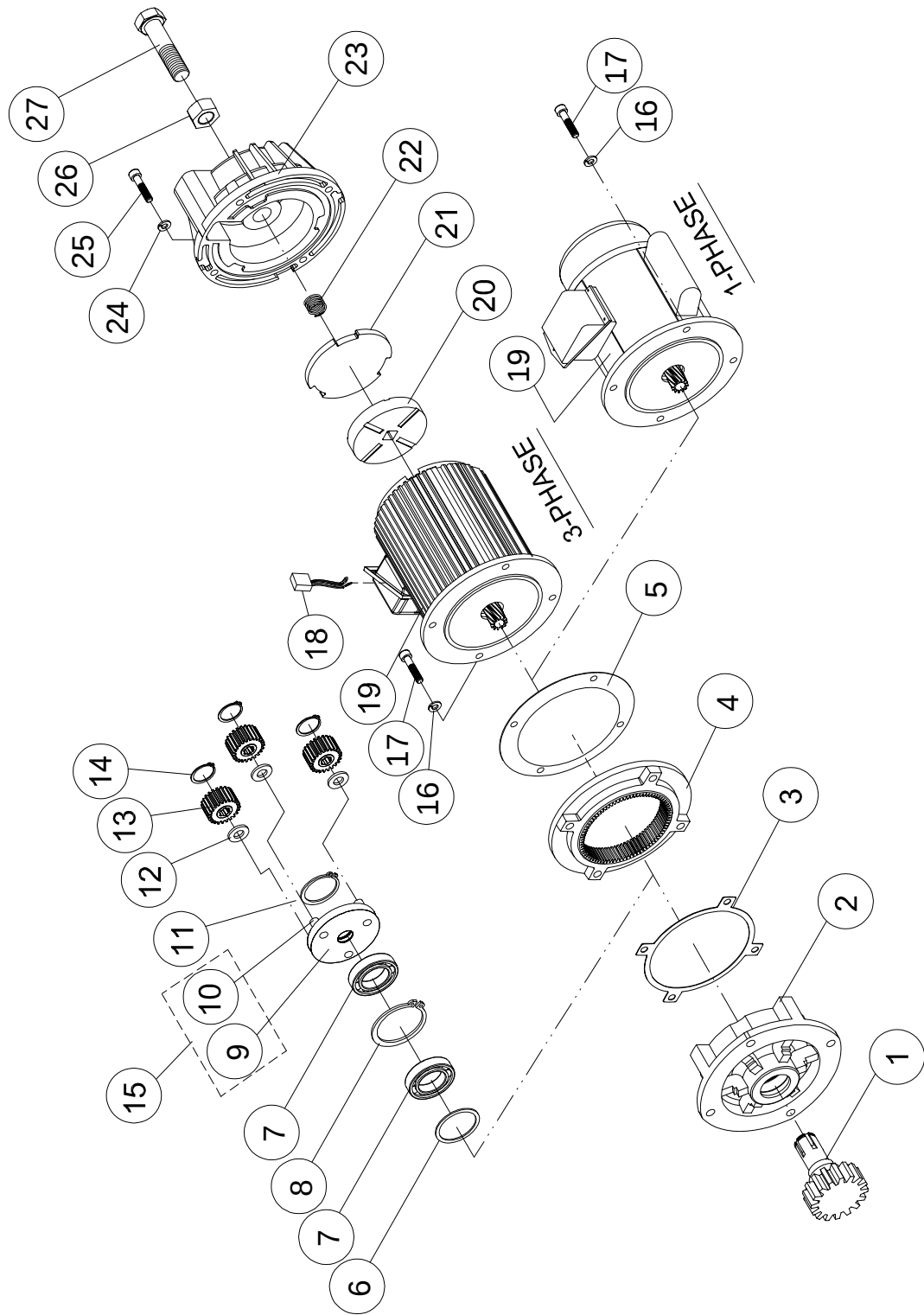


0.25kw REDUCING GEAR MOTOR B.O.M.

NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT		
			3-Phase		1-Phase
			S	D	
1	201761	Transmission Axle With Pinion	1		
2	405017	Hex. Head Bolt <M6×1.0×60L>	4		
3	400094	Spring Washer <M6>	4		
4	200320B	Gear Box	1		
5	402513	Gear Box Gasket 13#	2		
6	200334B	Inner Teeth Gear Sleeve	1		
7	400182	Oil Seal	1		
8	400695	Bearing<6204 Z>	2		
9	400198	Retaining Ring<R-47>	1		
10	400191	Retaining Ring<S-20>	1		
11	200347	Axle Sleeve<ø25×ø20×6L>	1		
12	200328	Reducing Gear Frame	1		
13	200392	Planetary Gear Axle<ø13×26.5L>	3		
14	400669	Flat Washer<ø21×ø11×2>	3		
15	200337	Planetary Gear	3		
16	400188	Retaining Ring<S-10>	3		
17	200391	Reducing Gear Frame Ass'y	1		
18	300152	Rectifier	1		
19	A	Motor Ass'y	1		
	B			1	
	C				1
20	100805	Brake Lining	1		
21	100807	Brake Disc	1		
22	400239	Brake Spring	1		
23	100533B	Brake Drum Ass'y	1		
24	400094	Spring Washer <M6>	4		
25	400007	Hex. Head Bolt <M6×1×20L>	4		
26	400084	Nut <M12×1.75>	1		
27	400464	Hex. Head Bolt <M12×1.75×35L>	1		

NO.	PARTS CODE		DESCRIPTION	Ø-HZ-V	
19	A	106520B	Motor Ass'y(S)	3Ø 60HZ	220V/380V
		106521B			220V/440V
		106511B			230V/460V
		106499B			240V
		106500B			480V
		106525B			600V
		106501B		3Ø 50HZ	220V/380V
		106503B			400V
		106504B			415V
		106506B			525V
	B	106816B	Motor Ass'y(D)	3Ø 60HZ	208V
		106807B			220V
		106441B			230V
		106809B			380V
		106810B			440V
		106811B			460V
		106813B			600V
		106800B		3Ø 50HZ	220V
		106444B			230V
		106802B			380V
		106443B			400V
		106804B			415V
		106805B			525V
	C	106751B	Motor Ass'y	1Ø 60HZ	110V/220V
		106750B			115V/230V
		106743B		1Ø 50HZ	110V/220V
		106744B			220V/230V

0.6 kw/0.9 kw REDUCING GEAR MOTOR



0.6kw/0.9kw REDUCING GEAR MOTOR B.O.M.

NO.	PARTS CODE	DESCRIPTION	0.6kw		0.9kw		
			3-Phase		3-Phase		1-Phase
			S	D	S	D	
1	201771	Transmission Axle With Pinion	1				
	201782				1		
2	200319B	Gear Box	1				
3	402519	Gear Box Gasket B	1				
4	200336B	Inner Teeth Gear Sleeve	1				
5	402517	Gear Box Gasket A	1				
6	400939	Oil Seal <30×45×8>	1				
7	400803	Bearing <6205Z>	2				
8	400199	Retaining Ring <R-52>	1				
9	200332	Reducing Gear Frame	1				
10	200394	Planetary Gear Axle< Ø15×29.5L>	3				
11	400192	Retaining Ring <S-25>	1				
12	400667	Flat Washer < Ø20×Ø12×2>	3				
13	200342	Planetary Gear	3				
14	400189	Retaining <S-12>	3				
15	200326	Reducing Gear Frame Ass'y	1				
16	400095	Spring Washer <M8>	4				
17	400426	Hex. Recess Bolt <M8×1.25×45L>	4				
18	300152	Rectifier	1				
19	A	Motor Ass'y	1		1		
	B			1		1	
	C						1
20	100806	Brake Lining	1				
21	100808	Brake Disc	1				
22	400314	Brake Spring	1				
23	100534B	Brake Drum Ass'y	1				
24	400094	Spring Washer <M6>	4				
25	400007	Hex. Head Bolt <M6×1×20L>	4				
26	400085	Nut <M16×1.5>	1				
27	400468	Hex. Head Bolt <M16×1.5×50L>	1				

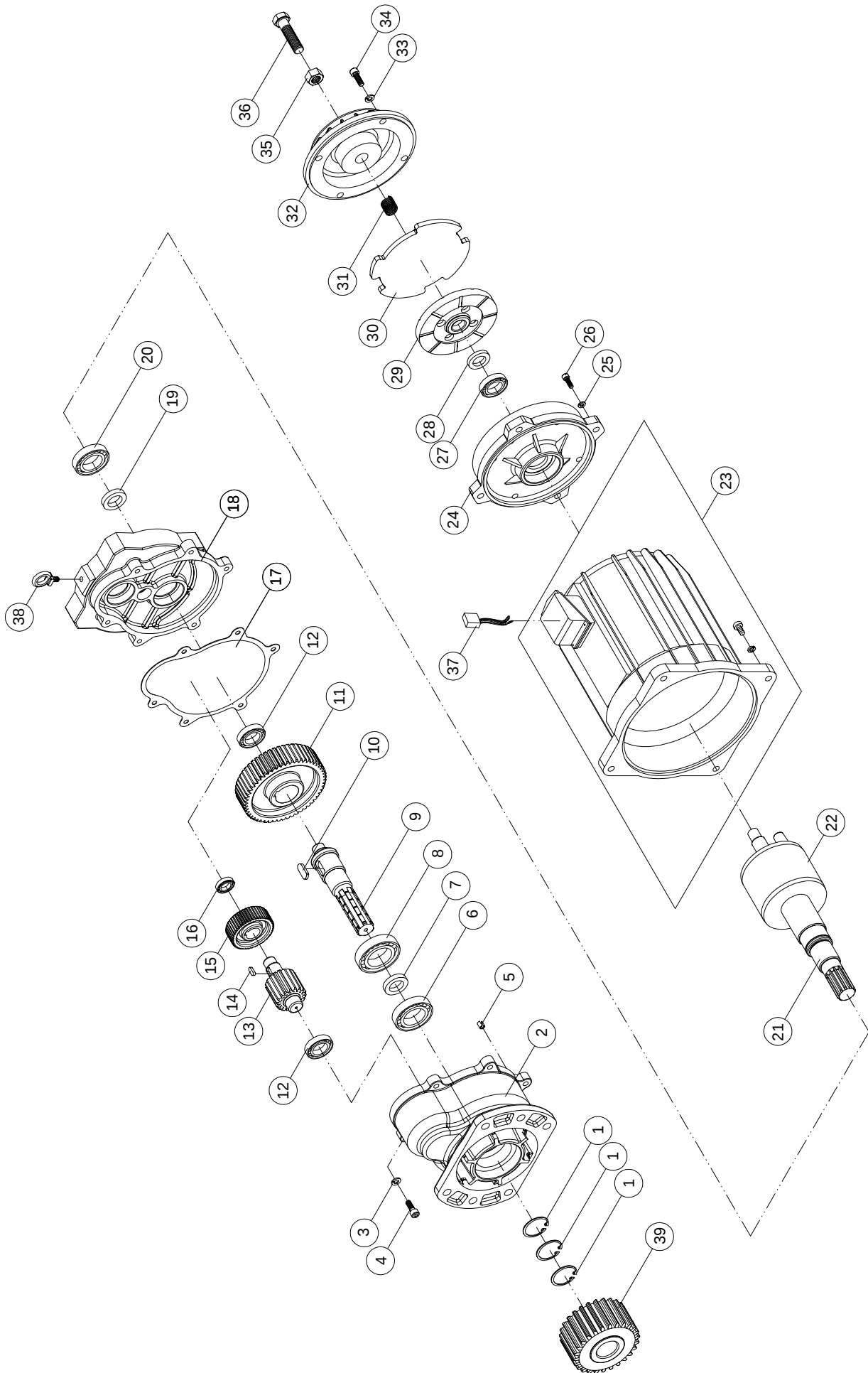
#19Ref. Page31、32

0.6kw/0.9kw REDUCING GEAR MOTOR B.O.M.

NO.	PARTS CODE		DESCRIPTION	Ø -HZ-V		
19	A	106600B	Motor Ass'y(S)	0.6KW	3Ø 60HZ	220V/380V
		106601B				220V/440V
		106610B				230V/460V
		106605B				600V
		106581B			3Ø 50HZ	220V/380V
		106597B				400V
		106584B				415V
		106585B				440V
		106586B				525V
		106680B		0.9KW	3Ø 60HZ	220V/380V
		106681B				220V/440V
		106688B				230V/460V
		106685B				600V
		106661B			3Ø 50HZ	230V/380V
		106662B				400V
		106664B				415V
		106665B				440V
		106666B				525V
		106700B				550V
	B	106836B	Motor Ass'y(D)	0.6KW	3Ø 60HZ	208V
		106837B				220V
		106830B				230V
		106839B				380V
		106840B				440V
		106841B				460V
		106843B				600V
		106832B			3Ø 50HZ	380V

0.6kw/0.9kw REDUCING GEAR MOTOR B.O.M.

NO.	PARTS CODE		DESCRIPTION	Ø -HZ-V		
19	B	106846B	Motor Ass'y(D)	0.6KW	3Ø 50HZ	400V
		106834B				415V
		106799B				440V
		106842B				460V
		106835B				525V
		106867B		0.9KW	3Ø 60HZ	220V
		106869B				380V
		106871B				460V
		106859B				600V
		106862B			3Ø 50HZ	380V
		106863B				400V
		106864B				415V
		106865B				525V
	C	106787B	Motor Ass'y	0.9KW	1Ø 60HZ	110V/220V
		106786B				115V
		106783B			1Ø 50HZ	110V/220V



1.5kW REDUCTION MOTOR

1.5kw REDUCTION MOTOR B.O.M.

NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			3-Phase
			1/20
1	400195	Retaining Ring <S-40>	3
2	219994	Gear Case A	1
3	400095	Spring Washer <M8>	6
4	400014	Hex. Recess Bolt <M8×1.25×30L>	6
5	400224	Spring Pin <Ø8 ×10 >	2
6	407857	Bearing < 6208 ZZ>	1
7	400938	Oil Seal <Ø40 ×Ø62 ×12t>	1
8	407759	Bearing < 6208 >	1
9	216778	Drum Shaft (4th Gear)	1
10	405942	Key <t12×8×35L>	1
11	216783	Drum Gear (4th Gear) <M2.5×60T>	1
12	407807	Bearing < 6205 Z>	2
13	216782	Load Brake Gear Shaft (3rd Gear) <M2.5×12T>	1
14	405939	Key <t 8×7×25L>	1
15	216781	Load Brake Gear (2nd Gear) <M1.5×48T>	1
16	407843	Bearing < 6204 ZZ>	1
17	402656	Gasket	1
18	219995	Gear Case B	1
19	400934	Oil Seal <Ø30×Ø50×8t>	1
20	400151	Bearing < 6306 2RU>	1
21	100825	Motor Shaft	1
	100823		1D
22	100824	Motor Rotor	1
	100818		1D
23	A	Motor Stator Ass'y	1
	B		1D
24	100593	Rear Bracket	1
25	400094	Spring Washer <M6>	4
26	400008	Hex. Recess Bolt <M6×1.0×25L>	4
27	407703	Bearing <6305 2RS>	1

#23Ref. Page35

1.5kw REDUCTION MOTOR B.O.M.

NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			3-Phase
			1/20
28	400943	Oil Seal <Ø25×Ø35×5t>	1
29	100756	Brake Lining	1
30	100459	Brake Plate	1
31	400314	Brake Spring	1
32	100505	Brake Drum Ass'y	1
33	400095	Spring Washer <M8>	4
34	400014	Hex. Recess Bolt <M8×1.25×30L>	4
35	400085	Nut <M16×1.5>	1
36	400468	Hex. Bolt <M16×1.5×50L>	1
37	300152	Rectifier	1
38	400217	Eye Bolt<M8×1.25>	1
39	201331	Transmission Pinion	1

NO.	PARTS CODE		DESCRIPTION	Ø -HZ-V	
23	A	108633	Motor Stator Ass'y (S)	3Ø 60HZ	220 / 380V
		108634			230 / 460V
		108635		3Ø 50HZ	220 / 380V
		108642			415V
	B	108639	Motor Stator Ass'y (D)	3Ø 60HZ	220 V
		108640			380 V
		108651			230V
		108652			460V
		108636		3Ø 50HZ	220V
		108637			380 V
		108638			415V

VERIFICATION OF COMPLIANCE

Verification Report No. : RA/2015/B0035C
 Representative Model : UH-5100
 Series Model(s) : UH-105, UH-110, UH-120, UH-205, UH-210, UH-220, UH-305, UH-310, UH-320, UH-330, UH-405, UH-410, UH-420, UH-430, UH-520, UH-525, UH-530, UH-550, UH-575, UHD-105, UHD-110, UHD-120, UHD-305, UHD-310, UHD-320, UHD-330, UHD-405, UHD-410, UHD-420, UHD-430, UHD-520, UHD-525, UHD-530, UHD-550, UHD-575, UHD-5100, UHD-2024, UB-100, UB-150, UB-200, UB-300, UB-500, PT-100, PT-200, PT-300, PT-500, GT-100, GT-200, GT-300, GT-500, UT-310, UT-320, UT-330, UT-350, UT-375, UT-3100, UTD-310, UTD-320, UTD-330, UTD-350, UTD-375, UTD-3100, UST-310, UST-320, UST-330, UST-350, UST-375, UST-3100
 Product Name : Electric Chain Hoist and Trolley
 Applicant : Cheng Day Machinery Works Co., Ltd.
 Address of Applicant : No. 173, Wen Chiu Rd., Dajia Dist., Taichung City 437, Taiwan
 TCF Number : CHENGDAY(UMEGA)-2015-D1
 Date of Issue : December 8, 2015
 Applicable Standard(s) : EN 60204-32:2008

Conclusion

Based upon a review of the Technical Construction File, the apparatus is deemed to meet the requirements of the above standard(s) and hence fulfill the requirements of:

Low Voltage Directive 2006/95/EC

Note : This verification is only valid for the apparatus and configuration described and in conjunction with the technical data detailed above.

The CE mark as shown below can be used, under the responsibility of the manufacture, after completion an EC Declaration of Conformity and compliances with all relevant EC Directives.

Authorized Signatory:

Jason Lin



SGS TAIWAN LTD.
 Jason Lin
 Technical Manager

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VERIFICATION OF COMPLIANCE to the requirements of **Machinery Directive 2006/42/EC**

Verification Report No. : RA/2015/B0034C
Representative Model : UH-5100
Series Model(s) : UH-105, UH-110, UH-120, UH-205, UH-210, UH-220, UH-305, UH-310, UH-320, UH-330, UH-405, UH-410, UH-420, UH-430, UH-520, UH-525, UH-530, UH-550, UH-575, UHD-105, UHD-110, UHD-120, UHD-305, UHD-310, UHD-320, UHD-330, UHD-405, UHD-410, UHD-420, UHD-430, UHD-520, UHD-525, UHD-530, UHD-550, UHD-575, UHD-5100, UHD-2024, UB-100, UB-150, UB-200, UB-300, UB-500, PT-100, PT-200, PT-300, PT-500, GT-100, GT-200, GT-300, GT-500, UT-310, UT-320, UT-330, UT-350, UT-375, UT-3100, UTD-310, UTD-320, UTD-330, UTD-350, UTD-375, UTD-3100, UST-310, UST-320, UST-330, UST-350, UST-375, UST-3100
Product Name : Electric Chain Hoist and Trolley
Applicant : Cheng Day Machinery Works Co., Ltd.
Address of Applicant : No. 173, Wen Chiu Rd., Dajia Dist., Taichung City 437, Taiwan
TCF Number : CHENGDAY(UMEGA)-2015-D1
Date of Issue : December 8, 2015
Date of Expiry : December 8, 2020
Applicable Standard(s) : EN ISO 12100 :2010, EN 14492-2:2006+A1:2009/AC:2010

Conclusion

Based upon a review of the Technical Construction File, the apparatus is deemed to meet the requirements of the above standard(s) and hence fulfill the requirements of:

Machinery Directive 2006/42/EC

Note : This verification is only valid for the apparatus and configuration described and in conjunction with the technical data detailed above.

The CE mark as shown below can be used, under the responsibility of the manufacture, after completion an EC Declaration of Conformity and compliances with all relevant EC Directives.

Authorized Signatory:

Jason Lin 

SGS TAIWAN LTD.
Jason Lin
Technical Manager

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