

Pacific Electric Chain Hoist

U-MEGA Series

OPERATION MANUAL & PARTS LIST



Model:PEH025

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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 "Pacific" ELECTRIC CHAIN HOIST.





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1. FOREWORD

This manual contains important information to help you properly install, operate and maintain the Pacific electric chain hoist and to maximize performance, economy and safety.

Please study its contents thoroughly before putting the electric chain hoist into operation.

By practicing correct operating procedures and by carrying out the preventative maintenance recommendations, you will be assured of dependable service. In order to help us to supply correct spare parts quickly, please always specify -

- (1) Hoist model
- (2) Serial number
- (3) Part number, plus the description.

We trust that you will find the Pacific hoists will give you many years of satisfactory service. Should you have any queries, please contact:

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E sales@pacifichoists.com.au	E sales@pacifichoists.co.nz
W www.pacifichoists.com.au	W www.pacifichoists.com.au

2.MAIN SPECIFICATIONS

2.1 Specifications

The following specifications are common to all electric chain hoists.

Item		Detail			
Working temperatu	re range (°C)	-5 to +40			
Working humidity r	ange (%)	85 or less			
Protection	Hoist	IP 54			
Protection	Push button	IP 65			
Electric power supp	oly	Three Phase, 415V, 50 Hz			
Noise Level (dB)	Dual speed hoist	75			
Chain Size	Туре	Nominal diameter (mm)	Pitch (mm)		
	PEH025	4.0	12.0		

Table 2-1 Specifications

NB. Reverse phase relay on all models except 250kg hoist

Remarks:

- (1) Contact Pacific Hoist for information on using the hoist outside the working temperature or humidity range.
- (2) Intended use: This hoist has been designed for vertically lifting and lowering loads under normal atmospheric conditions.
- (3) Noise levels are measured at a distance of 1m horizontally from the hoists during normal operation.

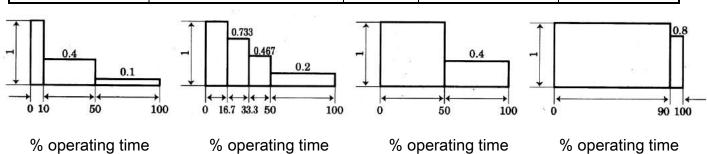
2.2 Mechanical Classification (Grade) and Life

Safety and life of electric chain hoists are guaranteed only when the equipment is operated in accordance with the prescribed grade.

Pacific electric chain hoists have been designed for grade 2m in the FEM Regulations (FEM 9.5.11). Details are provided in Table 2-2. Average daily operating time and total operating time are determined by load distribution.

Table 2-2 Mechanical classification

Load Spectrum (Load distribution)	Definitions	Cubic mean	Average daily Operation time	Total operating time	
,		value	(h)	(h)	
	Mechanisms or parts				
1	thereof, usually subject to				
	very small loads and in	k≦ 0.50	4 - 8	12500	
(light)	exceptional cases only to				
	maximum loads.				
	Mechanisms or parts				
2	thereof, usually subject to	0.50 <k< td=""><td>2 4</td><td>6200</td></k<>	2 4	6200	
(medium)	small loads but rather	≦ 0.63	2 - 4	6300	
	often to maximum loads.				
	Mechanisms or parts				
	thereof, usually subject to	0.00 4			
3	medium loads but	0.63 <k< td=""><td>1 - 2</td><td>3200</td></k<>	1 - 2	3200	
(heavy)	frequently to maximum	≦ 0.80			
	loads.				
	Mechanisms or parts				
4	thereof, usually subject to	0.80 <k< td=""><td>0.5.4</td><td>4000</td></k<>	0.5.4	4000	
(very heavy)	maximum or almost	≦ 1.00	0.5 - 1	1600	
	maximum loads.				



2.3 Safety Devices

(1) Motor brake

The "Electro-Magnetic Brake" unique design, it features simultaneous motor braking upon switching off power even under full load condition, quick action and high frequency use.

(2) Mechanical Brake w/Clutch & Overload protection device

The unique design includes mechanical brake & overload dual protection. Mechanical clutch operates with motor brake, which can offer exactly, very limited slipping & quick braking. OL device prevents over loading to damage goods, and ensure secure operation and product's life-span.

(3) Hook and hook latch

The hook is drop-forged from high tensile steel and heat treated for strength and toughness.

The bottom hook is capable of 360° rotatable and fitted with a safety latch for added security.

(4) Phase Error Relay

To test 3 phases if any wrong phases connection. It can stop power once any abnormal situation to protect the hoist.

(5) Limit Switch

Upper and lower limit switches are fitted for switching off power automatically in case of over lifting or over lowering.

(6) Emergency Stop Device

This button is used to quick stop the hoist in an emergency situation. It is a red, mushroom shaped swivel button, located at the uppermost position of the pendant. When pressed, power to the equipment is switched off and the button locked automatically. Turn it clockwise can release the lock and enable re-start. (Illust.1)

(Illust.1)

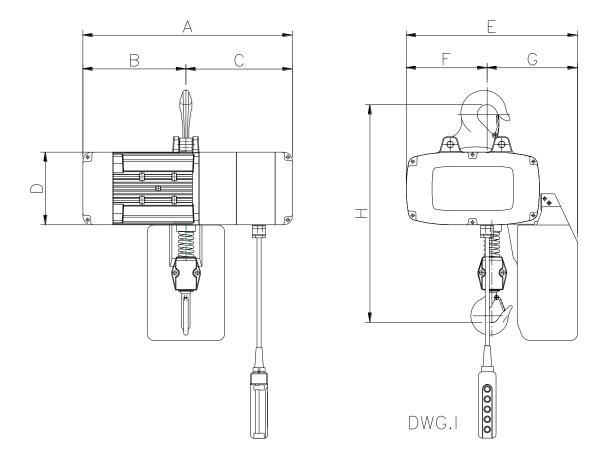
2.4 Specifications and Dimensions

a. Specifications:

Мо	del	PEH025
Capac	ity (kg)	250
Lift Hei	ght(m)	3etc.
Load Cha	ain (mm)	Ø4.0×12.0
Hoisting Speed (m/min)	50HZ	12/3
Motor Power (kw)	50HZ	0.6/0.15 2/8P
Motorized Trolley M	lode N.W./G.W.(kg)	68/84
Top Hook Mode	N.W./G.W.(kg)	30/32
Power	Supply	3Phase, 415V-24V,50Hz
E.D. Ra	ting (%)	40/20
Load Chain	Fall Number	1

b. Dimensions:

Model	Dimensions(mm)							
Model	Α	В	С	D	E	F	G	Н
PEH025	380	175	205	135	299	143	156	376



3.SAFETY RULES

⚠ DANGER

This hoist is not designed for, and should not be used for, lifting, supporting, or transporting personnel. Any modifications to upgrade, re-rate, or otherwise alter the hoist equipment must be authorized by either the original manufacturer or a qualified professional engineer.

Only trained personnel are allowed to operate the hoist.



Do not use the hoist in explosive atmosphere.

Prior to each lifting operation, it is essential to make sure that:

- (a) the correct lifting sling is being used.
- (b) the lifting sling is located in the hook as shown below (Illust. 2) and that a safety latch has been fitted.



(Illust. 2)

Firm and steady button operation is required. Never push the button switch intermittently.



Do not use the hoist chain as a welding electrode.

Always avoid excessive inching operation.

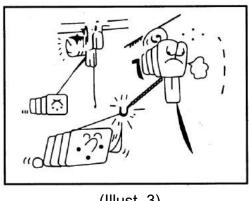
Always make sure the hoist motor completely stops before reversing.

Always leave the push button switch cable and bottom hook vertically static after completion of operation, never leave them at any position which may cause swing or slip.

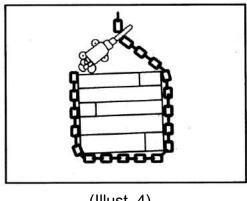
Slings must be applied to load evenly and centrally to ensure correct balance. Never lift any object which is insecure or out of balance.

Never use hoist to end or side pull a load. (Illust. 3)

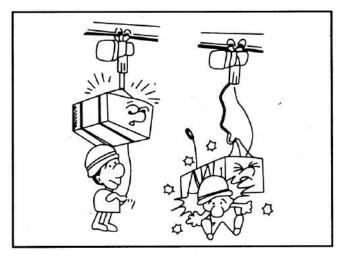
Never wrap around and hook back the load chain as a sling to lift a load. (Illust. 4)







(Illust. 4)



(Illust. 5)

Lifting must always be personally attended. Never leave a raised load unattended.

Over-capacity-load lifting is hazardous and should not be undertaken.

Never lift a load when the load chain is twisted.

Regularly inspect and check the condition of load chain. Do not operate with damaged chain.



Never stand under a raised load (Illust. 5)

4. INSTALLATION

4.1 Unpacking Information

After removing the hoist from its packing box, carefully inspect the external condition of the electrical cables, contactor, gearbox and motor casing for damage.

Check and ensure that these items are present.

Each hoist is supplied as standard with the following accessories.

1. Chain bucket	1 set			
2. Power cable	0.5 meter			
3. Push button control switch	1 piece			

4.2 Voltage

4.3 Installation

Prior to installation check and ensure that the top hook assembly is securely attached to the hoist by means of the lock bolt.

NOTE: If the hoist is to be suspended from an electric trolley, assembly may be eased by firstly removing the top hook, attaching it to the trolley load plate, them refitting the

CAUTION

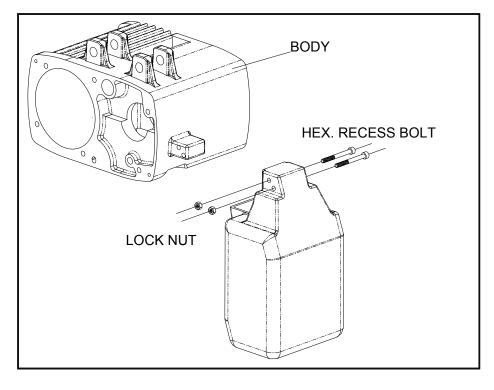
If power supply deviates from standard by more than ± 10% abnormal operation or damage to the motor may result. It is imperative to ensure correct voltage supply before commencing operation.

top hook to the hoist.



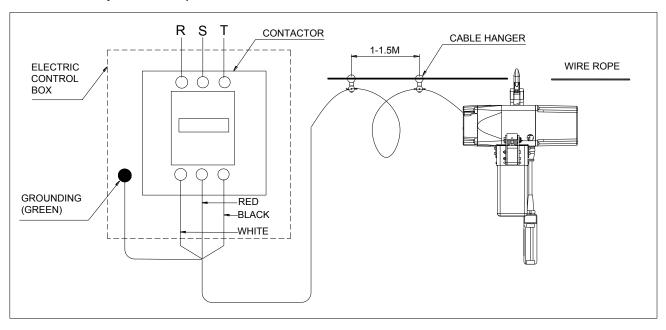
Connection to power supply before installation procedures having been completed is strictly prohibited.

Assemble chain bucket -



(Illust. 6)

Connect power supply to hoist and operate the push button switch. This operation must be carried out by a trained person.



(Illust. 7)

Operation Test

- (a) Please reverse any two connections while the direction is incorrect.
- (b) Firmly push switch button to lower load chain until the limit spring touches the limit switch. Power should be cut off automatically.

(d) Check the emergency stop device function:

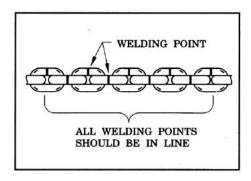
While holding down either ① or ② button on the push button switch, push the emergency stop button. Check that the hook stops when the emergency stop button is pushed. Also, check the hoist does not move in response to the push button switch.

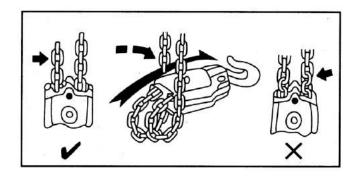
Finally, check that the emergency stop device pops out when turned to the right and that operation can be resumed thereafter. If the equipment fails to pass any of the above checks, check the wiring and automatic locking function of the emergency stop device.

- (e) Check load chain lubrication (It has been lubricated at our works, but the lubricant may dry out during transportation). It is also advisable to keep a small amount of lubricant in the chain bucket to keep the chain in an oil bath.
- (f) Check chain position. Weld joints on links must face the same direction (Illust. 8). Correct chain operation can only be achieved when all joints are vertically in line.



The bottom hook on multi-fall hoist must never be rotated as shown below. (Illust. 9)





5. OPERATION

After running test and checks have been completed, the hoist will be ready for normal operation.



Since dealing with heavy loads may involve unexpected danger all of the "SAFETY RULES" (Ref 3.) must be followed and the operator must be aware of the following points while using the hoist.

- (1) The operator must have a clear and unobstructed view of the entire working area before operating the hoist.
- (2) The operator must check that the entire working area is safe and secure before operating the hoist.
- (3) When using the hoist with a motorized trolley, the operator must take care to prevent excessive load swinging by sympathetic use of the trolley controls



Do not perform maintenance on the hoist while it is carrying a load except monthly checking for the brake or limit switch.



Before performing maintenance do not forget to affix tags to the power source and the push button switch reading: "DANGER", "EQUIPMENT BEING REPAIRED".

6. MAINTENANCE AND INSPECTION

6.1 Maintenance

(1) Check the level of gearbox lubricant after the first 500 hours operation, thereafter check every 3 months and lubricate accordingly.

NOTE: We recommend using lubricant oil equivalent to SHELL S4 WE460.

- (2) Always keep the hoist unit dry and never misuse it in a manner likely to reduce its durability.
- (3) When it is necessary to keep the unit outdoors, a protective covering should be fitted.

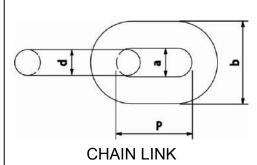
6.2 Inspection

- **1. Daily inspection**: Before starting daily operation, check the followings:
 - (a) Correct power supply.
 - (b) "Up", "Down" and "Emergency Stop" test runs under no load.
 - (c) Correct motor performance.
 - (d) No abnormal or excessive noise.
 - (e) No malfunction of the bottom hook safety latch.
 - (f) Proper function of moving/turning parts and brake.
 - (g) Well-lubricated load chain.

2. Monthly inspection

(a) Load chain.

Distorted, elongated or worn chain link will not sit properly on the load sprocket wheel and may cause chain breakage and/or damage to hoist unit. To ensure safe and efficient operation, the chain links must be checked for their pitch (inside length), inside width and outside width monthly according to following table.



WARNING

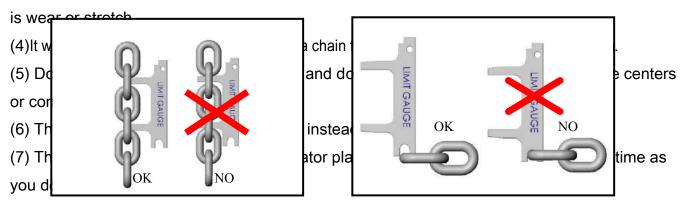
ure's recommended parts when repairing a hoist.

Dia- Meter (m/m) (d)	Model	Inside Length (m/m) (p)	Inside Width (m/m) (a)	Outside Width (m/m) (b)	Breaking Load (kn)
Ø4.0	PEH025	12.0	13.7	5.0	20

Table 6-2-a

Measuring

- (1) The chain gauge is useful and convenience for measuring.
- (2) Please use a chain gauge to measure the chain pitch and diameter, per illustrations (1) and (2).
- (3) Every chain ring must be measured, and the chain must be replaced when one of chain ring

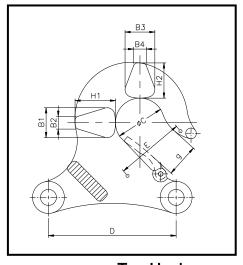


Note: Chain must be in perfect condition without any defects.

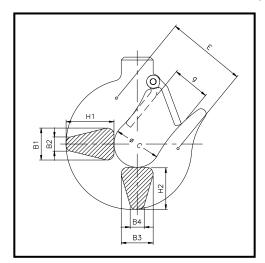
Illustration (1) Chain pitch measure

Illustration (2) Diameter measure

(b) Check hook with care. If hook shows cracks, deformation or excessive wear, it should be replaced.



Top Hook



Bottom Hook

Model	Capacity	Hook		Dimensions (mm)						Allow Stress			
iviodei	(kg) Hook		H1	B1	B2	H2	В3	B4	С	D	g	Е	(kg/mm²)
DELIGOE	250	Т	26.5	17	8	22	17	8	35	120	19	45	70
PEH025	250	В	20	12	6	20	12	6	36	-	25	42	70

Top Hook=T Bottom Hook=B

3. Annual inspection



Your dealer should be asked to perform this inspection.

- (a) Check gearing for any excessive wears or damage.
- (b) Replace gearbox lubricant completely (PEH025 / 400C.C.,) as following table for your reference. NOTE: We recommend using lubricant oil equivalent to SHELL S4 WE460.
- **Table of recommended oils according to DIN 51354

ISO-VGDIN 51519 viscosity At 40°C mm²/s (cST)	Approximate viscosity of the VG Categories 50°C mm ² /s (cST)	ARAL		ARAL		BP		ESSO		MO	BIL OIL
VG460	251	Aral Degol BG 460-BMB 460						· ·			bilgear 634
ISO-VGDIN 51519 Viscosity at 40°C mm²/s (cST)	Approximate viscosity of the VG Categories 50°C mm ² /s (cST)	SHELL	TEX	ACO	I.F).	AG	ΙP	TOTAL		
VG460	251	Omala oil S4 WE460		ropa Mella 60 46			Bla:		Carter EP 460		

Table 6-2-b

The permissible tolerance for each VG category is ±10% of the tabulated values.

- (a) Check brake lining for any wear or damage.
- (b)On completion of above checks, lift a load several times to ensure good performance of the hoist before starting duty operation.

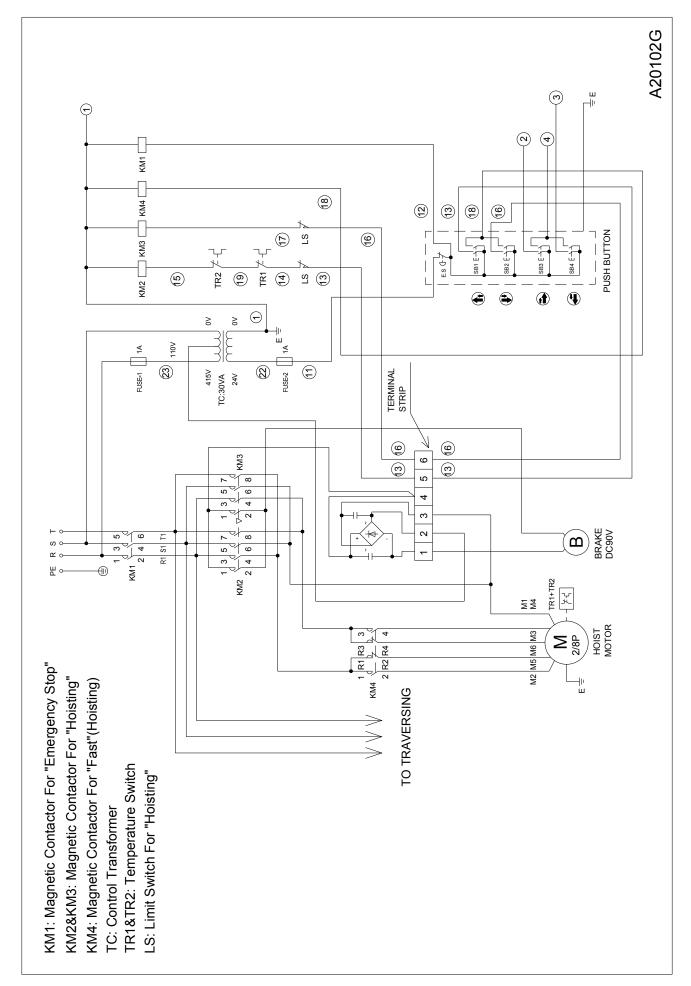
Warranty Details

- 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.(ex. Galvanize plant, Chemical Plant, Dye-work, etc.)
- (d) Damage caused by operating on the wrong electric voltage.
- (e) Damage caused by user amend the product.
- (f) Damage caused by natural disaster.
- 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.)

7.TROUBLESHOOTING

7.1 Wiring Diagrams



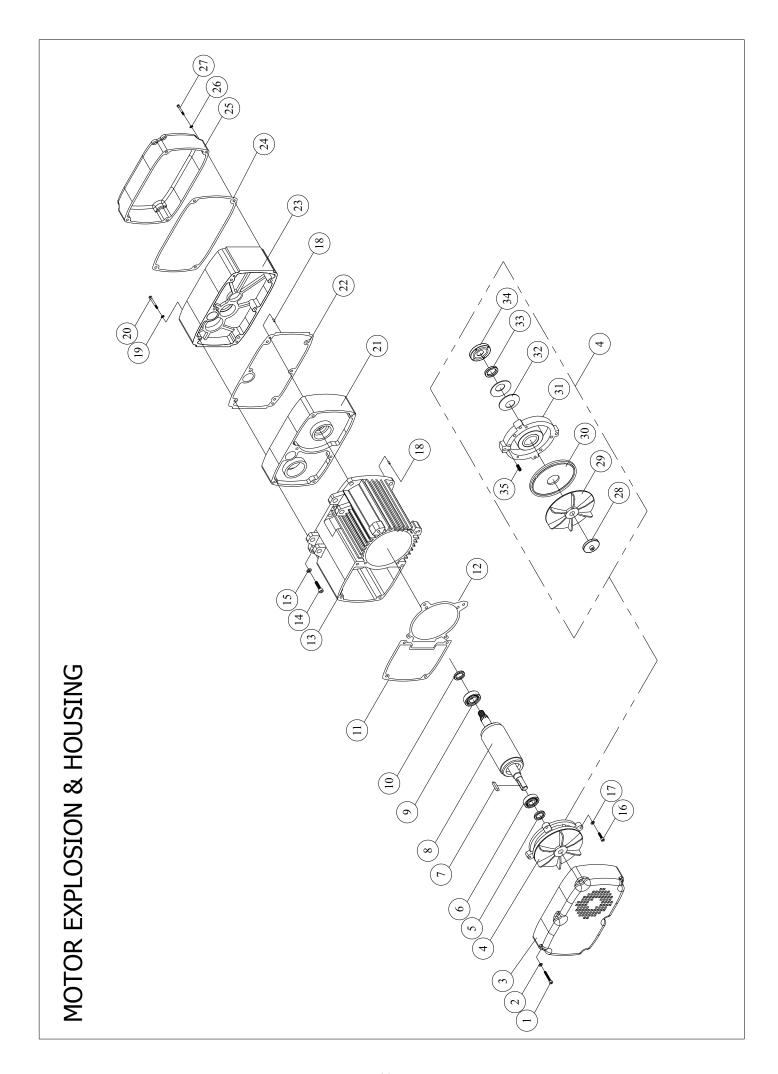
7.2 Troubleshooting and Remedial Action

SITUATION	CAUSE	REMEDY

Hoist will not	(1) Broken/disconnected	Locate and repair/reconnect
operate	power or control circuit	·
	wire.	
	(2) Low supply voltage	Check if 10% reduction in voltage, have main
		supply checked
	(3) Motor hums but does not	Check phases to motor-insulate and repair
	rotate	
	(4) Emergency stop button	Check the cause as necessary
	release pushed	
	(5) Faulty contactor	Operate manually if hoist runs then control
		circuit/coil is faulty-locate fault and repair.
		If hoist does not run then check main supply.
		If input supply is correct but there is a faulty
		output supply then replace the contactor
Hoist will not stop	Welded contacts in contactor	Replace contactor
Brake slips	Abrasion of motor brake	Replace
Hoist runs but does	(1) Clutch slipping	Contact your authorized PACIFIC dealer –
not lift		this adjustment needs to be carried out on a
		test rig
Abnormal sound on	(1) Chain dry	Lubricate
load chain/chain	(2) Worn chain sprocket (2	Replace load chain and chain sprocket
sprocket (2 falls)	falls)	(2 falls)
Electric shock	(1) Poor earth connection	Provide correct earth connection
	(2) Accumulated foreign	Remove foreign matter/dry electrical parts
	matter/ moisture on	
	electrical parts	
Oil leak	(1) No oil plug	Attach the normal oil plug
	(2) Loose fitting of oil plug	Fasten the plug tightly
	(3) No plug packing	Attach normal packing
	(4) Worn or deteriorated	Attach the new packing
	oil packing	

8. DRAWINGS AND PARTS LISTS

(1)	MOTOR ASSEMBLY & HOUSING B.O.M											
	2											0
(2)	Н	0	0	K	Α	S	S	Е	М	В	L	Y
	B.O.	M										. 22
(3)	LOAD	CHAIN	N ASSE	MBLY B.O.M	1							
	2											4
(4)	GEAR	BOX AS	SSEMB	SLY B.O.M								
	2											6
(5)	ELECT	TRIC AS	SSEMB	SLY B.O.M								
	2											8



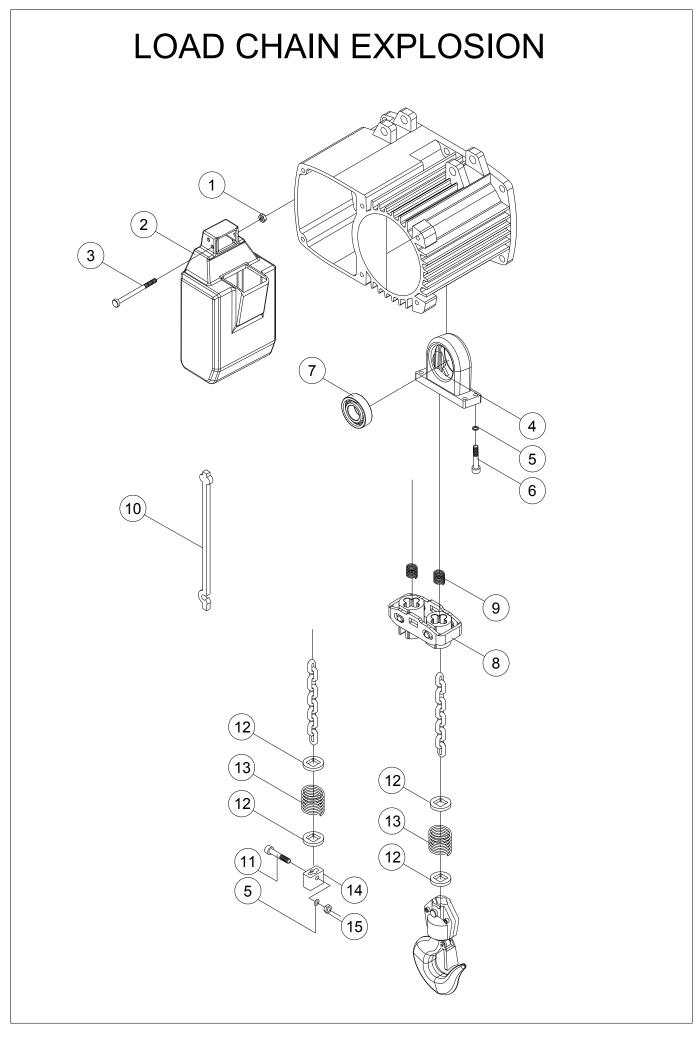
MOTOR ASSEMBLY & HOUSING

NO.	PARTS	DESCRIPTION	Q'TY REQ'D EACH UNIT
NO.	CODE	DESCRIPTION	PEH025
1	408330	Hex. Recess Bolt <m5×0.8×45l></m5×0.8×45l>	6
2	400854	Spring Washer <m5></m5>	6
3	301410L	End Cover	1
4	100448	Brake Ass'y	1
5	400932	Oil Seal <Ø15ר30×7t>	1
6	400111	Bearing <6202 ZZ>	1
7	400947	Key <t5×5×25l></t5×5×25l>	1
8	100315	Motor Rotor	1
9	400732	Bearing <6203 ZZ>	1
10	404487	Oil Seal <Ø17ר28×6t>	1
11	402562	End Cover Gasket	1
12	402565	Brake Gasket	1
13	106453N	Motor Stator Ass'y	1
14	408342	Hex. Recess Bolt <m8×1.25×20l></m8×1.25×20l>	6
15	400856	Spring Washer <m8></m8>	6
16	400417	Hex. Recess Bolt <m5×0.8×20l></m5×0.8×20l>	4
17	400093	Spring Washer <m5></m5>	4
18	400615	Pin	4
19	400094	Spring Washer <m6></m6>	6
20	405022	Hex. Recess Bolt <m6×1.0×40l></m6×1.0×40l>	6
21	200960N	Gearbox	1
22	402597	Gearbox Gasket	1
23	200959L	Gearbox Cover	1
24	402568	Electric Cover Gasket	1
25	300834L	Electric Cover	1
26	400854	Spring Washer <m5></m5>	4
27	408330	Hex. Recess Bolt <m5×0.8×45l></m5×0.8×45l>	4
28	207266	Adjust Screw	1
29	207263	Brake Plate	1
30	100141	Brake Rotor	1
31	201435	Brake Coil Ass'y <sbv-ys063></sbv-ys063>	1
32	408505	Bauer Disc Spring	2
33	207268	Spacer	1
34	207271	Bearing Cap	1
35	408504	Brake Spring	6

HOOK EXPLOSION

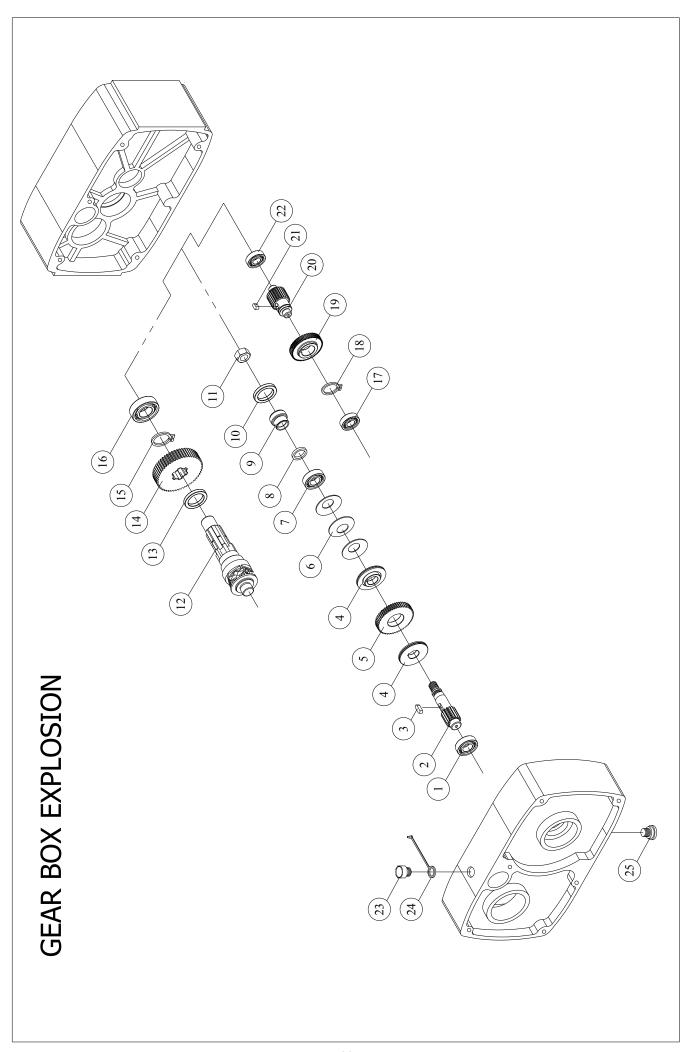
HOOK ASSEMBLY

NO.	PARTS	DESCRIPTION	Q'TY REQ'D EACH UNIT
INO.	CODE	DESCRIPTION	PEH025
1	201368	Lock Bolt <Ø10.5×64L>	2
2	200016L	Top Hook Ass'y	1
3	400300	Safety Latch Ass'y	1
4	400096	Spring Washer <m10></m10>	2
5	400082	Nut <m10×1.5></m10×1.5>	2
6	400610	Cotter Pin <Ø3×30L>	2
7	400646	Nylon Nut <m5></m5>	3
8	201371L	Bottom Block Cover	2
9	400830	Thrust Bearing <51102>	1
10	201372L	Bottom Hook Ass'y	1
11	200480	Safety Latch Ass'y	1
12	407463	Parallel Pin <Ø8×25L>	1
13	200445	Bottom Hook Pin <Ø10×25.5L>	1
14	408329	Hex. Recess Bolt <m5×0.8×20l></m5×0.8×20l>	2
15	201370L	Bottom Hook Cover Ass'y	1



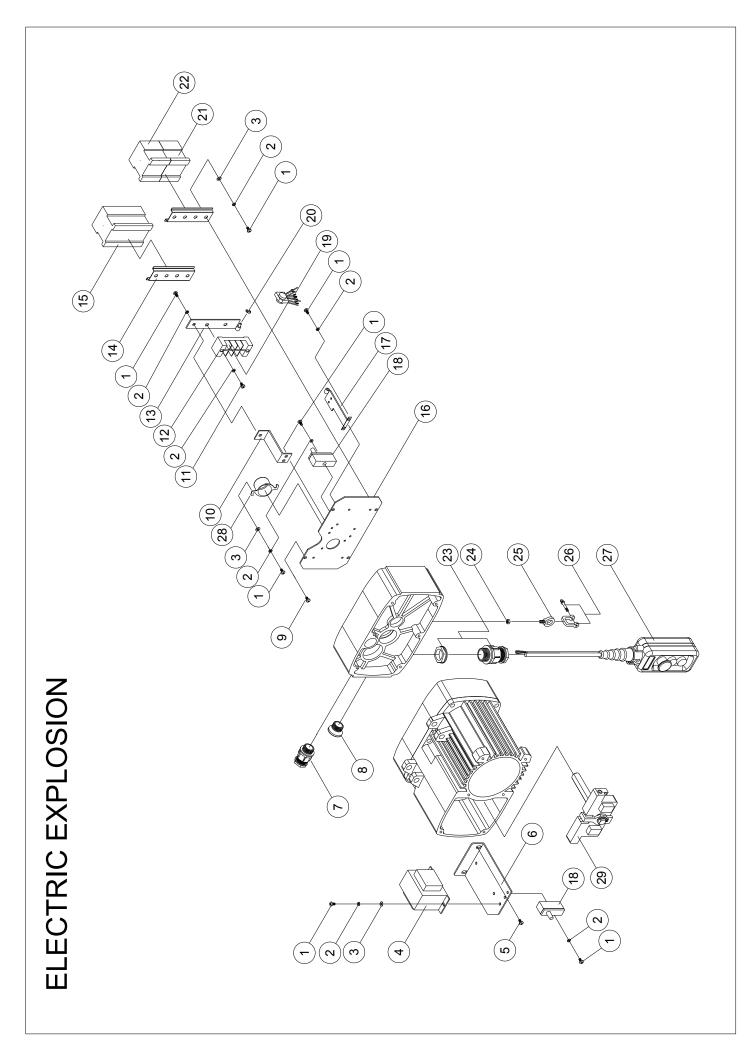
LOAD CHAIN ASSEMBLY

NO.	PARTS	DESCRIPTION	Q'TY REQ'D EACH UNIT
140.	CODE	DEGGINI HON	PEH025
1	400646	Nylon Nut <m5></m5>	2
2	208813	Chain Bucket <Ø4.0-1#>	1
3	408343	Hex. Recess Bolt <m5×0.8×60l></m5×0.8×60l>	2
4	209095	Chain Regulator	1
5	400093	Spring Washer <m5></m5>	5
6	400003	Hex. Recess Bolt <m5x0.8x16l></m5x0.8x16l>	4
7	400732	Bearing <6203 ZZ>	1
8	262574	Guide Tube Ass'y	1
9	408621	Spring	2
10	400512	Substitute Chain <Ø4.0×12>	1
11	400417	Hex. Recess Bolt <m5×0.8×20l></m5×0.8×20l>	1
12	200442	Limit Stopper Ass'y	4
13	408485	Spring	2
14	200441	Chain Stopper	1
15	400646	Nylon Nut <m5></m5>	1



GEAR BOX ASSEMBLY

NO.	PARTS	DESCRIPTION	Q'TY REQ'D EACH UNIT
NO.	CODE	DESCRIPTION	PEH025
1	407869	Bearing <6002 ZZ>	1
2	201301	5th Gear <m1.25x18tx91.5l></m1.25x18tx91.5l>	1
3	405933	Key <t5×5×15l></t5×5×15l>	1
4	201362	Brake Disc	2
5	268434	4th Gear <m1×55t×9l></m1×55t×9l>	1
6	407324	Disc Spring <Ø34ר16.3×2.0t>	3
7	407868	Bearing <6904 ZZ>	1
8	404343	O-Ring <Ø9ר15×3>	1
9	201363	Oil Seal Bushing <Ø25×21L>	1
10	400943	Oil Seal <Ø25ר35×5t>	1
11	404552	Nylon Nut <m12×1.25></m12×1.25>	1
12	201364	Load Sheave	1
13	400893	Oil Seal <Ø30ר42×8t>	1
14	201302	6th Gear <m1.25x53tx16l></m1.25x53tx16l>	1
15	400192	Retaining Ring <s-25></s-25>	1
16	407840	Bearing <6004 ZZ>	1
17	407867	Bearing <6001 ZZ>	1
18	400191	Retaining Ring <s-20></s-20>	1
19	201357	2nd Gear <m0.8×60t×12l></m0.8×60t×12l>	1
20	201358	3rd Gear <m1×26t×56.1l></m1×26t×56.1l>	1
21	400961	Key <t6×6×10l></t6×6×10l>	1
22	407867	Bearing <6001 ZZ>	1
23	200926	Hex. Oil Plug	1
24	200927	Air Plug	1
25	300523	Lubricant Drain Bolt	1
		I .	1



ELECTRIC ASSEMBLY

NO.	PARTS	DESCRIPTION	Q'TY REQ'D EACH UNIT
NO.	CODE	DESCRIPTION	PEH025
1	400048	Cross Headed Screw <m4×0.7×6l></m4×0.7×6l>	12
2	400092	Spring Washer <m4></m4>	18
3	400661	Flat Washer <m4></m4>	8
4	303766	Transformer	1
5	408361	Cross Headed Screw <m5×0.8×8l></m5×0.8×8l>	2
6	300625	Transformer Bracket	1
7	400222	Cable Gland <m20></m20>	1
8	408436	Rotation Plug	1
9	408360	Cross Headed Screw <m5×0.8×10l></m5×0.8×10l>	4
10	201391	Terminal Plate A	1
11	400051	Cross Headed Screw <m4×0.7×12l></m4×0.7×12l>	2
12	300646	Terminal Block	1
13	201392	Bracket Ass'y	1
14	300079	Contactor Rail	2
15	300065	Magnetic Contactor <4A>	1
16	201394	Electric Bracket Ass'y	1
17	201393	Bracket Located Seat	1
18	300589	Fuse Ass'y	2
19	300143	Rectifier	1
20	404252	E-Retaining Ring<Ø5>	1
21	300066	Magnetic Contactor <2A2B>	1
22	300064	Magnetic Contactor <3A1b>	1
23	400941	Cable Gland <m25></m25>	1
24	400087	Nylon Nut <m6></m6>	1
25	404803	Eye Bolt <m6×1.0></m6×1.0>	1
26	400595	Shackle <3/16">	1
27	312401	Push Button Switch	1
28	208836	Cover	1
29	302514	Upper & Lower Limit Switch	1



EC Declaration of Conformity (E

According to the following EU Directives:

Machinery Directive: 2006/42/EC

• Low Voltage Directive: 2014/35/EU

EMC Directive: 2014/30/EC

We, Cheng Day Machinery Works Co., Ltd.

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Tel: +886-4-26881581 Fax: +886-4-26881509

declare that the machines mentioned hereafter:

OProduct: Electric Chain Hoist

Model No.(s): PEH025, PEH050, PEH100, PEH200-2, PEH200-1, PEH300-2, PEH500-2

OProduct: Electric Motorized

Model No.(s): PET050,PET055,PET100,PET105,PET200,PET205
PET210,PET215,PET310,PET315,PET510,PET515

©Functions: They are designed to be used for lifting and lowering of goods.

which are designed and manufactured in compliance with the essential health and safety requirements of the Machinery Directive and Low Voltage Directive, and are based on the following European harmonized standards:

- EN ISO 12100:2010, Safety of machinery General principles for design Risk assessment and risk reduction
- ISO/TR 14121-2:2012, Safety of machinery Risk assessment Part 2: Practical guidance examples of methods
- EN 14492-2:2006+A1:2009/AC:2010, Cranes Power driven winches and hoists Part 2: Power driven hoists
- EN 60204-32:2008, Safety of machinery Electrical equipment of machines Part 32: Requirements for hoisting machines
- FEM 9.511 (Classification of mechanisms)
- FEM 9.681 (Selection of travel motors)
- FEM 9.682 (Selection of lifting motors)
- FEM 1.001 (Rules for the design of hoisting appliances)

Representative: L. 7, HUANG

C.F. Huang / Quality Assurance Manager

Place / Date: Taichung City, Taiwan. / Feb. 10, 2017.

<V1.0-2017>

"Original instructions"