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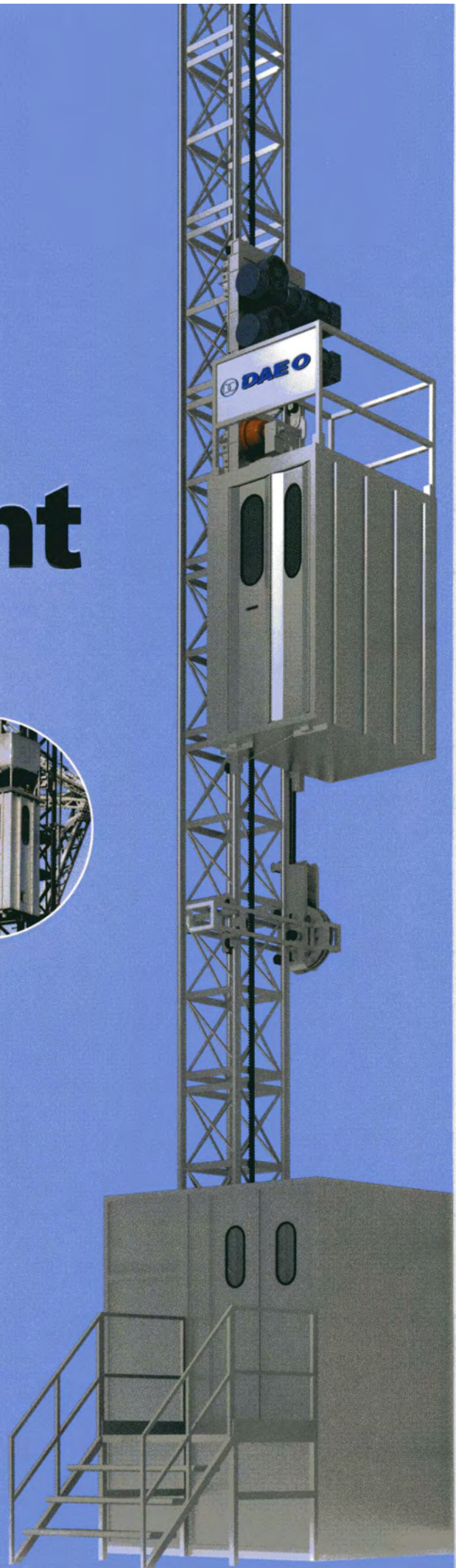
INNOBIZ

기술혁신형중소기업  
Innovative small / medium industry



Skyworker

# Permanent Hoistcar



Since 1983

**DAEO**  
Dae O Precision Industry Co.,Ltd.

[www.daeo.co.kr](http://www.daeo.co.kr)



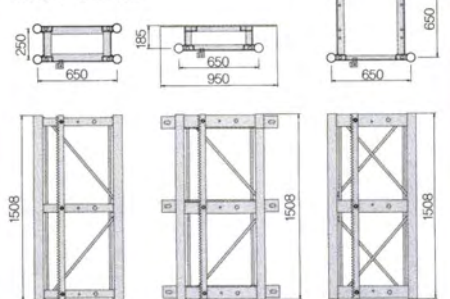
# World best in permanent hoistcar

- 편리한 시공성  
Convenient construction work
- 안정성 확보  
Assurance of safety
- 경제적 제고  
Enhancement of economic profit
- 편의성 향상  
Improvement in convenience

DAE O Permanent Hoistcar로  
생산효율을 향상 시키십시오.

Improve your production efficiency  
with DAE O Permanent Hoistcar

Mast Series





# Introduction of DAE O Permanent Hoistcar

## DAE O Permanent Hoistcar that has excellent technical capability.

대오정공은 한국전력공사(KEPCO), 포스코(POSCO), 현대건설, 동양제철화학 등 수준 높은 기술력을 요구하는 유수의 기업에 납품하여 탁월한 기술력을 인정받고 있습니다.

DAE O Precision Industry Co. is acknowledged for the excellent technical capability of its permanent hoistcar, DAE O Precision Industry Co. supplies this top-notch equipment to various renowned companies including KEPCO, POSCO, Hyundai E&C, OCI Co., and other companies that demand high standard technical requirements.

## DAE O Permanent Hoistcar that is available for tailored production to the individual site.

대오정공은 방폭형 호이스트카, 철판용 호이스트카, 연돌점검용 호이스트카, 시멘트 플랜트용 호이스트카, 선박용 호이스트카, 해양플랜트용 호이스트카, 수직구용 호이스트카, 겐트리크레인용 호이스트카 등 각종 고소산업현장에서 안전하게 사용할 수 있는 다양한 퍼머넌트 호이스트카를 생산하고 있습니다.

DAE O Precision Industry Co. is producing diversified permanent hoistcars including explosion-proof hoistcar, hoistcars for steel tower, smokestack inspection, cement plant, vessels, off-shore plant, vertical pit works and gantry cranes to be used for safely working in various high place working sites.

## DAE O Permanent Hoistcar that is optimal to high place plant sites.

대오 퍼머넌트 호이스트카는 랙앤드피니언(RACK & PINION)방식을 적용한 마스트가 승강로 및 레일역할을 함으로써 별도의 승강로 및 레일이 필요 없으므로 엘리베이터 설치를 위한 승강로 공사비용을 대폭 절감할 수 있습니다.

DAE O Permanent Hoistcar does not need any separate hoist way and rail because the mast applied with rack & pinion method is playing the role of hoist way and rail. As a result, the construction cost of hoist way for installation of an elevator can be significantly reduced.

## DAE O Permanent Hoistcar that offers comfortable ride.

구동부가 호이스트카의 상부에 탑재된 탑드라이브(TOP-DRIVE) 방식을 적용하여 별도의 기계실이 필요 없고 호이스트카 운행 시 승차감이 뛰어나며 내부공간이 넓고 쾌적합니다.

Separate machine room is not required because of the application of the Top-Drive method in which the driving part is equipped on the upper part of hoistcar. And it has wide inside space and offers comfortable ride and coziness.

## DAE O Permanent Hoistcar Inverter System.

V.V.V.F(Variable Voltage Variable Frequency)제어방식 인버터 시스템을 적용하여 유도 전동기를 직류전동기와 같이 제어할 수 있기 때문에 출발에서부터 정지 시까지 안락한 승차감을 느끼실 수 있습니다.

DAE O Permanent Hoistcar utilizes an inverter system of VVVF(Variable Voltage Variable Frequency) method and controls induction motor with direct current motor altogether so offers comfortable ride from the stage of start to stop.

## DAE O Permanent Hoistcar folding door System.

폴딩도어 시스템을 적용하여 도어개폐 시 케이지 내부공간을 효율적으로 사용할 수 있습니다.

A folding door system is applied, thus the inside space of cage can be efficiently used during door opening and closing.

## DAE O Permanent Hoistcar Multiple Safety Device System.

비상정지 스위치, 낙하방지장치(Governor), 과부하방지장치, 출입문 연동장치, 도어 인터록장치 등 다중 안전장치를 적용하여 안전합니다.

DAE O Permanent Hoistcar is safe because it is supported by multiple safety devices including emergency stop switch, falling prevention device (Governor), overload prevention device, landing door interlocking device, door interlocking device, etc.

## DAE O Permanent Hoistcar Semi Auto Control System.

조이스틱 레버를 이용한 수동조작방식과 엘리베이터와 같이 목적층의 콜 버튼을 누름으로써 목적층까지 자동운행하는 방식을 선택할 수 있습니다.

The manual control system by the use of joystick lever is selectively provided. Furthermore, the automatic operation method performed by pushing the desired floor call button just like an elevator is also selectively provided.

## Main Components



Mast



Driving Unit



Governor



Enclosure



Entrance Door



Cage



Explosion Proof Operating Panel



Operating Panel

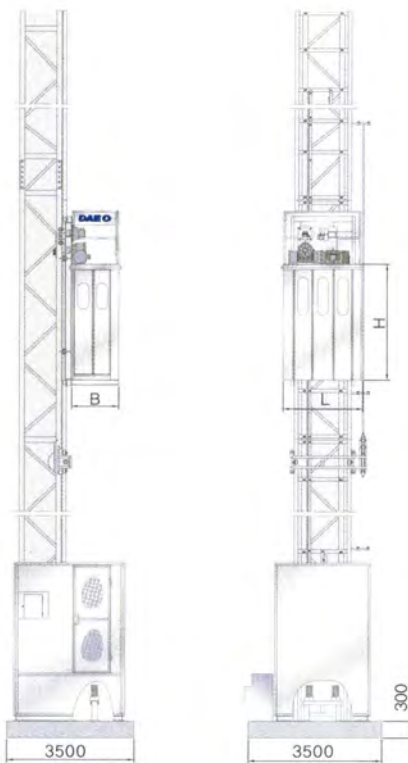


## PRODUCT INTRODUCTION

퍼머넌트 호이스트카는 겐트리크레인, 철탑, 풍력발전소 및 열병합발전소의 연돌, 교량의 교각 내부, 플랜트 등에 설치하여 이동 및 유지보수용으로 사용됩니다. 별도의 승강로가 필요하지 않으므로 건축비 절감 효과를 얻을 수 있습니다.

Permanent hoistcar can be used for mobile maintenance by installing this equipment at gantry crane, steel tower, wind power plant, smokestack of cogeneration plant, bridge post inside and plant. As this permanent hoistcar does not need another host way, it can offer you the effect of reduced building cost.

- SEMI AUTOMATIC OPERATION SYSTEM
- COMPACT DESIGN



## SPECIFICATION

Description	Model	Rated Load (kg)	Speed (m/min)	Motor Capacity (kW)	Lifting Height (m)	Cage (B×L×H)m	Cage Door (B×H)m	Landing Door (B×H)m	Driving Unit Position	Control
Permanent Hoistcar	DOPL-400	400	25	9.75	200	0.9×1.5×2.2	0.7×2.0	0.7×2.0	Top Drive	Inverter
	DOPL-400	400	60	11	200	1.0×1.65×2.2	0.9×2.0	0.9×2.0	Top Drive	Inverter
	DOPL-450	450	38	11	200	1.2×1.6×2.2	0.9×2.0	0.9×2.0	Top Drive	Inverter
	DOPL-1000	1000	38	19	200	1.2×1.6×2.2	0.9×2.0	0.9×2.0	Top Drive	Inverter
	DOPL-1200	1200	38	21	200	1.2×1.6×2.2	0.9×2.0	0.9×2.0	Top Drive	Inverter
	DOPL-1500	1500	38	29	200	1.5×1.8×2.2	1.0×2.0	1.0×2.0	Top Drive	Inverter
Knuckle Hoistcar	DOPL-450K	450	48	19	200	0.9×1.5×2.2	0.7×2.0	0.7×2.0	Top Drive	Inverter

This is a standard specification but able to be changed.



We make your skyway safely.

**DAEO**  
Skyworker

➔ AREAS OF PRODUCT APPLICATION

- 선박의 선형의장 공정 Outfitting process of ship-building
- 석유화학플랜트 Petro chemical plant
- 겐트리크레인 Gantry crane
- LNG TANK
- 연돌 점검 Smokestack inspection
- 철 탑 Steel tower
- 교 량 Bridges
- 해양 플랜트 Off-shore plant
- 풍력발전설비 Wind power plant



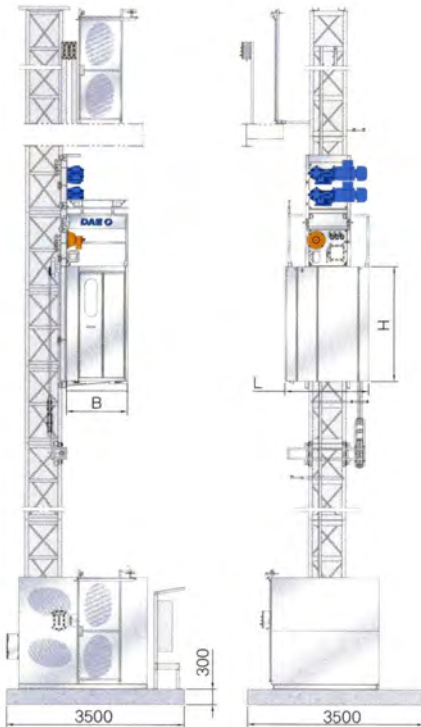


### ▶ PRODUCT INTRODUCTION

방폭형 호이스트카는 폭발위험성이 상존하는 석유화학플랜트, LNG TANK 설비 등에 적용합니다. 밀폐된 승강로 타입의 엘리베이터와 달리 승강로가 대기중에 오픈되어있어 폭발 위험성이 낮고 점검 및 유지보수 시 유지보수장비의 이동 편의성 향상으로 안전합니다.

Explosion-proof hoistcar is applied for petro chemical plant and LNG TANK facilities where explosion hazard is ever present. Its hoist way is open to the air different from the closed typed hoist way of elevator so it has lower expectancy of explosion, and also it has more safety cause of convenient movability of equipment during check and maintenance work.

- 모든 전선의 방폭배관 및 배선  
Explosion-proof piping and wiring of all the cables
- 모든 전기 패널의 방폭사양 적용  
Application of explosion-proof specification for all the electrical panels
- 금속마찰에 의한 스파크 발생 방지 설계  
Preventive design of spark caused by metal friction
- SEMI AUTOMATIC OPERATION SYSTEM



### ▶ SPECIFICATION

Description	Model	Rated Load (kg)	Speed (m/min)	Motor Capacity (kW)	Lifting Height (m)	Cage (B×L×H)m	Cage Door (B×H)m	Landing Door (B×H)m	Driving Unit Position	Control	Area Classification
Explosion Proof Hoistcar	DOPL-350EX	350	25	11 (Exd IIC T4)	200	0.9×1.5×2.2	0.7×2.0	0.7×2.0	Top Drive	Inverter	ZONE 2 (Hydrogen)
	DOPL-450EX	450	38	11 (Exd IIC T4)	200	1.2×1.6×2.2	0.9×2.0	0.9×2.0	Top Drive	Inverter	ZONE 2 (Hydrogen)
	DOPL-1000EX	1000	38	19.5 (Exd IIC T4)	200	1.2×1.6×2.2	0.9×2.0	0.9×2.0	Top Drive	Inverter	ZONE 2 (Hydrogen)
	DOPL-1200EX	1200	38	21 (Exd IIC T4)	200	1.2×1.6×2.2	0.9×2.0	0.9×2.0	Top Drive	Inverter	ZONE 2 (Hydrogen)
	DOPL-1500EX	1500	38	29 (Exd IIC T4)	200	1.5×1.8×2.2	1.0×2.0	1.0×2.0	Top Drive	Inverter	ZONE 2 (Hydrogen)

This is a standard specification but able to be changed.



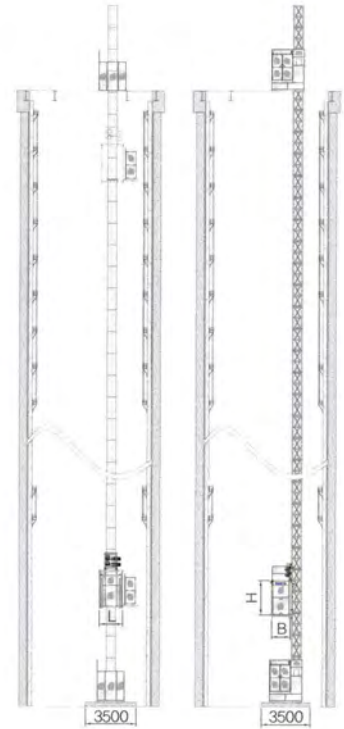
대오 퍼머넌트 호이스트카는 안전을 약속합니다.  
DAE O Permanent Hoistcar assures you of safety.



## Top Down Hoistcar

Top Drive 방식을 적용한 수직구용 호이스트카는 지하철공사, LNG TANK, 지하터미널, 수직전력구 등 지상에서 지하로 내려가는 수직구 이동용장비로서 탑다운(TOP DOWN) 방식을 적용합니다.

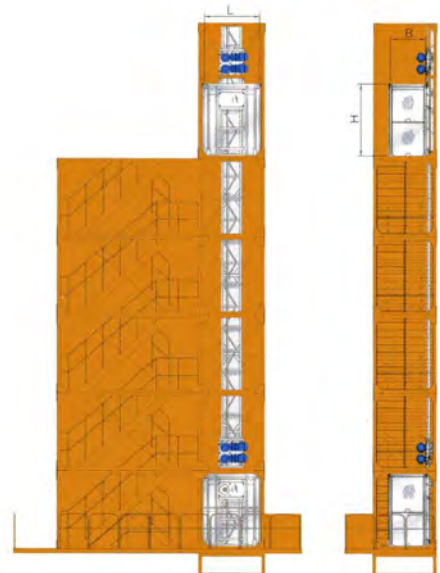
Hoistcar that applies Top-Drive method for vertical pit works is the mobile equipment that moves from the ground surface down to the underground by employing TOP DOWN method. The top down method is applied for the works of subway, LNG TANK, underground terminal, vertical cable conduit, etc.



## Block Type Lift

블록형 리프트는 원유운반선, LNG선, 초대형 컨테이너선, 호화 여객선 등 대형선박의 선박건조 공정중 조립 및 선형 의장공정에 필요한 선박건조 장비로서 선박건조효율성을 크게 향상시켜줍니다.

Block Type Lift is the ship-building equipment required for outfitting process of large-scaled ship-building including crude oil carrier, LNG vessel, super container ship, luxurious passenger ship, etc. This lift can significantly enhance the efficiency of ship-building.



### SPECIFICATION

Model	Rated Load (kg)	Speed (m/min)	Motor Capacity (kW)	Lifting Height (m)	Cage (B×L×H)m	Gage Door (B×H)m	Landing Door (B×H)m	Driving Unit Position
DOHT-005A	1000	38	19	200	1.5×3.0×2.7	1.4×2.2	1.4×2.2	Top Drive
DOHT-1235	1200	38	19	200	1.4×3.5×2.9	1.4×2.2	1.4×2.2	Top Drive
DOHT-1540SN	1500	38	29	200	1.5×4.0×2.9	1.5×2.2	1.5×2.2	Top Drive

This is a standard specification but able to be changed.



### Main Products

- Construction lift (Hoistcar)
- Permanent hoistcar
- Luffing crane
- Building gondola
- Working gondola
- Elevator for human & freight
- Various construction industry machinery



### (주)대오정공

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