

Manufacturer Of:

- Deck Machinery (Winches, A-Frames, LARS)
- Offshore Cranes, Gangway and Moonpool System
- Marine Outfitting (Doors, Windows, Hatch Covers)
- Refrigeration System
- High-Efficiency Rudders



60 Paya Lebar Road #13-02 Paya Lebar Square Singapore 409051



+65 6420 8981



sales@odexmarine.com



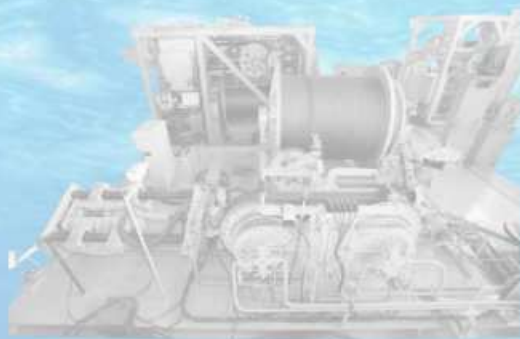
www.odexsg.com



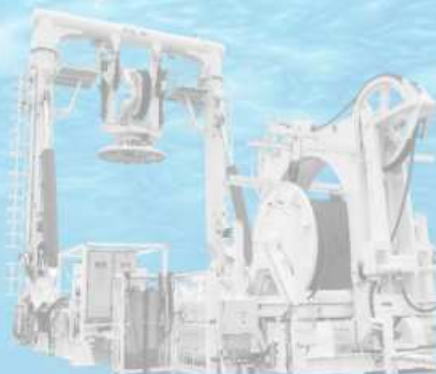
POWER-DRIVEN DOORS & HATCHES

Manufacturer Of:

Customized Winch System



A-Frame LARS System



Telescopic Knuckle Boom Crane



Sliding Door (Hyd/Elec)



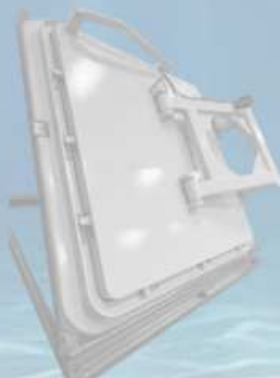
Marine Windows and Doors



Multi-Functional Special Watertight Door



Hinged Type Shell Door



Combined Rudder



Integrated Fresh-keeping Storage Device



Hatch Cover



CONTENTS

ABOUT ODEX.....	01
HYDRAULIC SLIDING DOOR (WATERTIGHT).....	02
ELECTRIC ROLLER SHUTTER DOOR.....	04
HATCH COVER.....	06
SIDE DOOR.....	08
ELECTRIC SLIDING DOOR (A60 FIREPROOF).....	11
PNEUMATIC SLIDING DOOR (A60 FIREPROOF).....	13
SPECIAL HYDRAULIC DOORS.....	15

ABOUT ODEX

Established in 2019, OceanDeep Explore Marine specialises in integrated deck machinery for the offshore, marine, defence, and renewable energy sectors. Headquartered in Singapore with manufacturing facilities in Malaysia and China, we combine expert project management with high-quality production to deliver cost-effective and reliable solutions.

Backed by over 25 years of industry expertise, we offer end-to-end service - from engineering and manufacturing to commissioning and support, tailored to meet the unique operational needs of our global clients.



HYDRAULIC SLIDING DOOR (WATERTIGHT)

The hydraulic sliding watertight door meets SOLAS requirements and are certified by 10 major classification societies including ABS, BV, DNV, LR and CCS. Widely used in ocean-going vessels and offshore platforms, some features include localized and remote control from the wheelhouse, door status display in the wheelhouse as well as independent manual operation incase of emergencies, controlled locally and above deck. Supplied to major shipyards in countries across Asia, Europe, Middle East and the Americas.

Product Application

Two design types are available (Type I and Type II) with the option of the following hydraulic system configurations:

1. ONE integrated Hydraulic Power Unit (HPU) for multiple doors
2. ONE independent HPU for each door
3. Usage of the vessel's hydraulic system



Type I Hydraulic Sliding Door



Product Features

- Ability to design and manufacture the watertight doors according to customer's requirements
- Watertightness pressure range of 10-30 meters
- Ease of operation and maintenance
- Small footprint
- Optional A60 fire rating, explosion proof
- Pre-installation pressure testing and post-install commissioning

Product Specifications

Hydraulic Sliding Door (Watertight)						
Type	Hydraulic System	Threshold Height	No.	Access Way Dimensions (mm)	Weight (kg)	
					Watertight Door	A60 Watertight Door
Type I	Split / Integrated	≥ 200mm	1	600x1200	765	870
			2	700x1400	872	990
			3	700x1600	920	1030
			4	800x1600	980	1130
			5	800x1800	1020	1190
Type II	Integrated	≥ 16mm	6	900x1800	1100	1350
			7	900x2050	1200	1350
			8	1000x1800	1180	1350
			9	1000x2000	1230	1350
			10	1200x2000	1350	1510

*specifications are fully customizable

ELECTRIC ROLLER SHUTTER DOOR

Widely used in ocean-going vessels and offshore platforms. Consisting of a power unit and reduction gears, the electric roller shutter door is chain driven and operated via button, with manual operation incase of emergencies.

Product Features

- Customizable opening
- Compact
- Auto-locking function
- Inching control
- Aluminum alloy; lightweight and rigid
- Weathertight with spray testing

Product Specifications

Electric Roller Shutter Door		
Type	Opening Dimensions	Tightness
Ceiling Type	Customizable	Weathertight
Rolling Type		

Product Application

Applicable for use in all types of storage, cabin, isolation, hangar and work boats etc.



Rolling Type Shutter Door



Ceiling Type Shutter Door

HATCH COVER

Widely used in ocean-going vessels and offshore platforms, the hatch cover is electro-hydraulic controlled with emergency manual operation bypass. Opening mechanisms offered includes hinge type, folding type, sliding type and lift-away.

Product Application

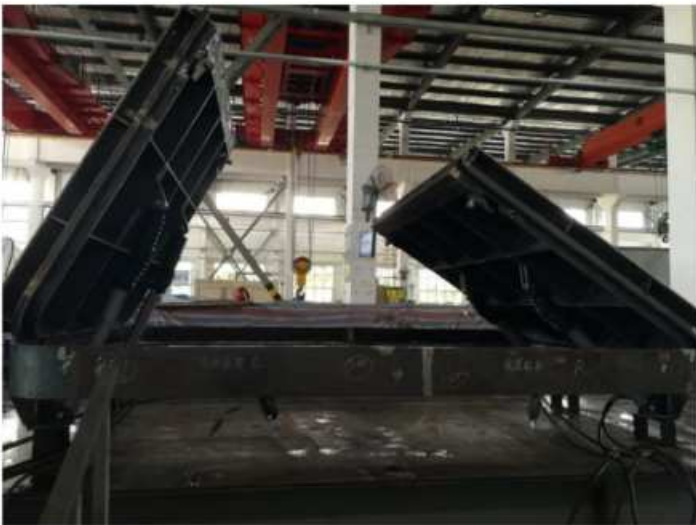
Supplied to major shipyards in countries across Asia, Europe, Middle East and the Americas and applied to various types of ships and offshore platforms.



Hinge Type Hatch Cover



Top: A60 Fireproof Hatch Cover
Bottom: Folding Type Hatch Cover



Double Leaf Hatch



Hydraulic Flush Hatch

Product Features

- Ease of operation and maintenance
- Weather/watertight
- Reliably driven by electro-hydraulics
- Lightweight and high-strength rigid structure

Product Specifications

Hatch Covers			
Structure Type	Tightness	Opening Mode	Closing Mode
Hinge	Weather/Water	Hydraulic	Hydraulic / Manual
Folding	Weather	Hydraulic	Manual
Sliding	Weather	Hydraulic	Manual
Lift-Away	Weather/Water	Crane (lift-away)	Hydraulic / Manual

*specifications are fully customizable

SIDE DOOR

With the ability to design and manufacture side port closing devices as per custom requirements, the different types of side doors such as inward/outward, sliding and upward opening types are broadly used in different applications in the industry.

Product Application

Supplied to major shipyards, the side doors are fully customizable according to operation needs and are Class Certified.



Transom Door





Transom Door



Shell Door (Hinged Inwards)



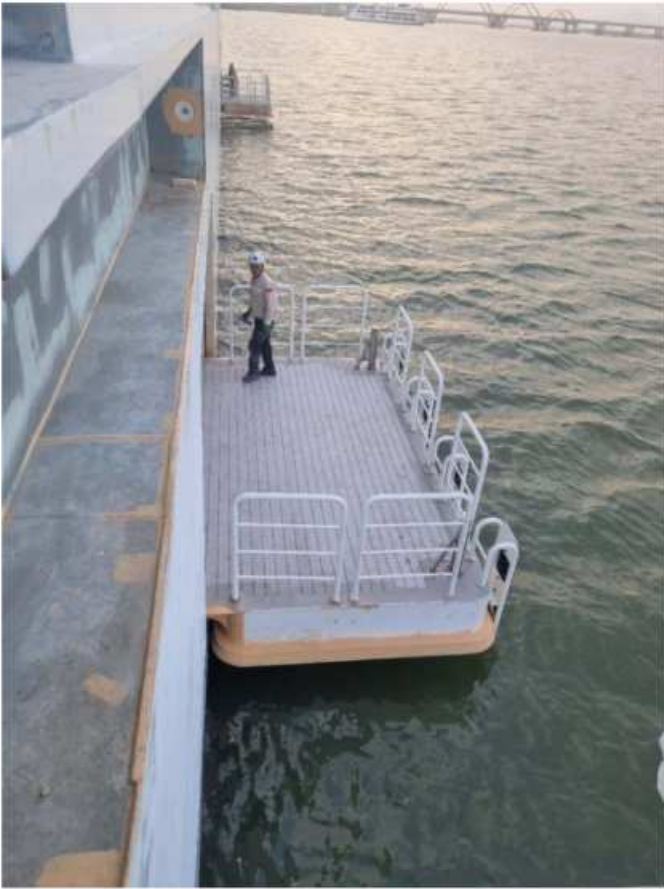
Embarkation Ladder



Folding Type Shell Door



Mooring Platform



Tender Platform

Product Features

- Ease of operation and maintenance
- Weather/watertight
- Reliably driven by electro-hydraulics
- Lightweight and high-strength rigid structure

Product Specifications

Side Door		
Structure Type	Tightness	Operation Mode
Inward Opening	Weather/watertight	Electro-hydraulic
Outward Opening	Weather/watertight	Electro-hydraulic
Sliding Type	Weather/watertight	Electro-hydraulic
Upward Opening	Weather/watertight	Electro-hydraulic

*specifications are fully customizable

ELECTRIC SLIDING DOOR (A60 FIREPROOF)

Suitable for Class A fire resistance requirements in vessels and platforms and satisfying the requirements of SOLAS, the A60 fireproof electric sliding door have obtained DNV Type Approval certificate (MEDB and MEDD).

Product Features

- Large clear opening
- Small footprint
- Ease of operation and maintenance
- A60 fireproof with low-sill
- Low operational noise

Product Specifications

Electric Sliding Door (A60)			
Structure Type	Rating	Max Clear Opening Size (mm) W x H	Sill Height (mm)
Sliding	A60	2700 x 2400	20

*sill height and clear opening can be customized

Product Application



Electric Sliding Door (A60)

PNEUMATIC SLIDING DOOR (A60 FIREPROOF)

Suitable for Class A fire resistance requirements in vessels and platforms and satisfying the requirements of SOLAS, the A60 fireproof pneumatic sliding door have obtained DNV Type Approval certificate (MEDB and MEDD).

Product Application



Pneumatic Sliding Door (A60)



Product Features

- Large clear opening
- Small footprint
- Ease of operation and maintenance
- A60 fireproof with low-sill
- Low operational noise

Product Specifications

Pneumatic Sliding Door (A60)				
Structure Type	Rating	Max Clear Opening Size (mm) W x H	Sill Height (mm)	Tightness
Sliding	A60	2100 x 2400	20	Gastight

*sill height and clear opening can be customized

SPECIAL HYDRAULIC DOORS

Supporting special opening and closing functions and installation requirements, we can design and manufacture tailor-made solutions such as but not limited to gangway side doors, belt and pilot side doors and detection handrail functions.

Product Application



Pilot Door (inside view)



Pilot Door (outside view)



Accommodation Ladder Door



Sonar Aft Door



Belt Door



Mooring Observation Platform



Shell Door for CTD



Manual Type Double-Leaf Shell Door



Shell Door

Product Features

- Vast variety of functions
- Ease of operation and maintenance
- Weather/watertight
- Tailored to customer's requirements