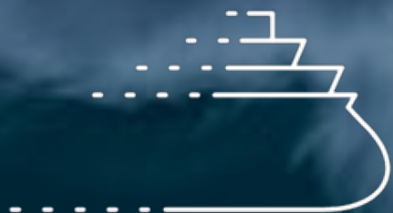




ULSTEIN®



DESIGN FOR THE FUTURE BY INNOVATION

Kirk Du, Ulstein China
DEC 6th Marintec China 2023

ULSTEIN

More than 100 years' experience in the maritime industry

Innovator in maritime equipment, designs and ships

Family-owned, third generation

Established 1917



400
People

4
Countries

Norway
Main office Ulsteinvik

OUR HOME GROUND



318
Vessels built
Ulstein Verft

158
Ulstein designs

117
X-BOW®s

HULL INNOVATION



X-BOW®

Firstly used in offshore O&G



X-STERN®

Firstly used in offshore wind



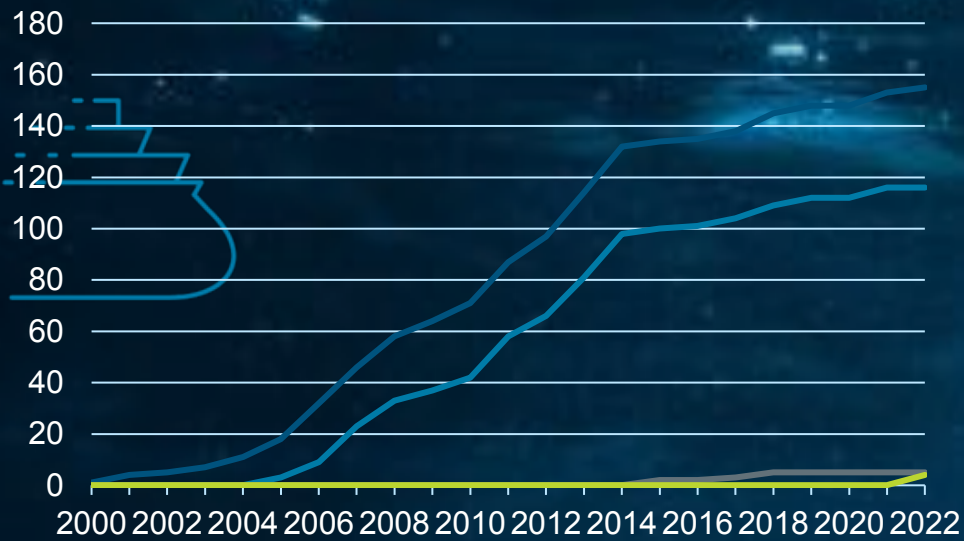
TWIN X-STERN™

Firstly used in offshore wind

HULL LINE DEVELOPMENT



ULSTEIN®



TOTAL ULSTEIN DESIGNS SINCE 1999

All Ulstein designs

X-BOW

TWIN X-STERN (orange)

Design dept
established



1999

2002

2005

2006 onward

2016

2018

2019

2021

2022

ADAPTING TO INDUSTRY



Transport

RoPax



Energy

Offshore oil and gas



Recreation

Yacht



Recreation

Expedition cruise



Renewables

Offshore Wind



Seafood

Coastal to ocean-going



ULSTEIN®

The first SOV design (SIEM MOXIE)



TWIN X-STERN CONCEPT



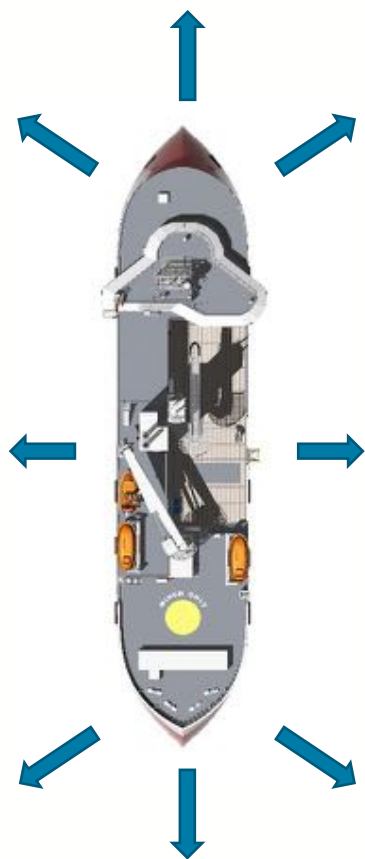
TWIN X-STERN:
A nominee for the
Innovation of the Year
Award at the OSJ
Conference in 2016.

TWIN X-STERN was one of
the decisive factors to earn
Ulstein the Industrial Com-
pany of the year Award at
the IDC Conference in 2022.



TWIN X-STERN™ BENEFITS

- LOWER ENERGY CONSUMPTION/更低的能源消耗
- INCREASED OPERABILITY/更高的工作窗口期
- LOWER NOISE AND VIBRATIONS/更低的噪音和震动



SERVICE OPERATION VESSEL(SOV)





TWIN X-STERN™ SX224 Inter-array Cable Layer

- **LENGTH OVER ALL:** 130,0 m
- **BREADTH:** 28,0 m
- **DEPTH TO M DECK:** 9,5 m
- **MAX DRAUGHT:** 7,0 m
- **DESIGN DRAUGHT:** 6,0 m
- **DEADWEIGHT AT 7,0 m:** 9700 t
- **DEADWEIGHT AT 5,5 m:** 4750 t
- **CABLE WEIGHT, MAX:** 6000 t
- **POB:** 123



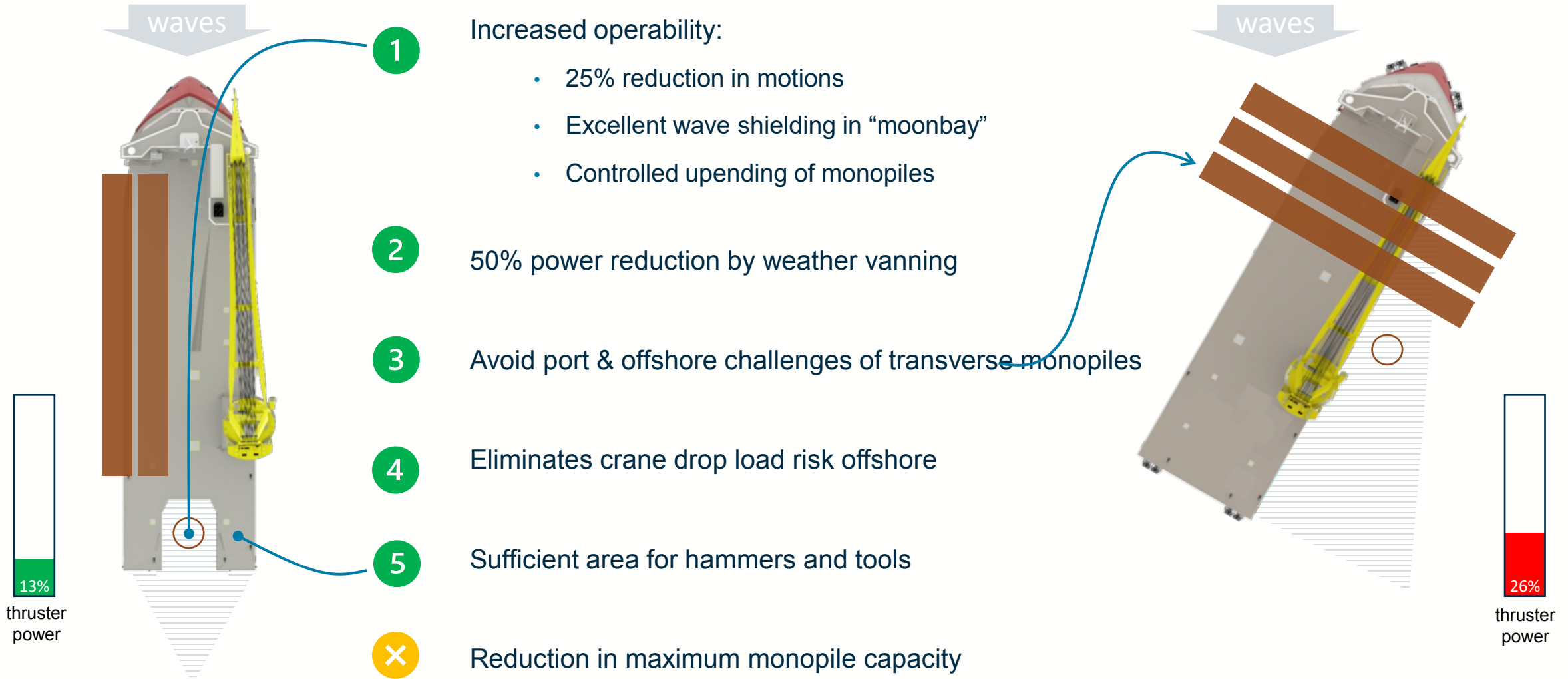
HEAVY LIFT VESSEL



**U-STERN™ recess in
the aft enables
longitudinal pile
upending in the ship
centre line**



U-STERN BENEFITS



FISHERY: SHIP OF THE YEAR 2023

Skipsrevyen



- Hybrid Propulsion, saving up to 40% fuel consumption with 1130 KWH battery package
该船配备混合动力推进系统，电池系统容量为1,130 kWh。除了多项能源效率措施外，与此类相应的现代船舶相比，这将总共减少至少 25% 的燃料消耗和排放。对于某些操作，节省高达 40%。

- Twin propulsors with rudder nozzle save at least 15% fuel consumption compared to conventional nozzle propellers
带舵喷嘴的双推进系统是能源效率最重要的单一领域。与同类型的传统船舶相比，仅此一项就可减少 15% 的能源消耗。

- Moreover, electrical deck machinery and heat management will further improve energy efficiency.
此外，还有电动绞盘、综合热回收和进一步的能源效率措施。



带舵喷嘴

FISHERY



Thor 3R (Replenishment, Research and Rescue)



RESEARCH





Rescue

People transfer





ULSTEIN®



SIF (Electric Powered Exploration Cruise)



ENABLING FULL ELECTRIC CRUISES





ULSTEIN®

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THANK YOU

感谢!



ULSTEIN[®]