

# OISL 4k A-Frame

## ROV launch and recovery system (LARS)

The OISL 4k A-frame is capable of handling heavy work class ROV systems in challenging weather conditions including high currents and high waves. The frame enables deepwater ROV operations in water depths to 4000m. Designed with crew safety as a primary focus, the A-frame meets multiple certification standards.



### FEATURES

**Increases safety by eliminating work under suspended load**

**Unique design enables smooth transition between transport and operational modes**

**Compact design for easy road and offshore transportation**

# OISL 4k A-Frame

## ROV Launch and Recovery

The OISL 4k A-frame was designed using years of operational experience and feedback from installation crews. Fully certified to DNVGL ST 0378 as a lifting appliance and DNVGL ST 0273-R30 class of offshore handling, the frame integrates various advanced and operational features.

- » Fail safe ROV latch design with integrated visual flag status indicators
- » Flexible docking head design allows movement in roll and pitch directions (critical in high current scenarios)
- » Integrated flag sheave suitable for use in conventional winch level wind configurations
- » Design includes automated handrails, maintenance access platforms around docking head, maintenance free bearings, integrated lubrications points, and flood lights

### Technical Specifications

Operating Conditions	
Overboard safe working load (OSWL) (line tension inboard and outboard)	48,502 lb / 22000 kg
Latch safe working load (LSWL) (ROV latched inboard and outboard)	26455 lb / 12000 kg
Overboard safe working load (OSWL) (roll 0 to 15°) at 13,123 ft / 4000m working depth	48,502 lb / 22000 kg
Overboard safe working load (OSWL) (roll 15 to 30°) at 6562 ft / 2000m working depth	28,660 lb / 13000 kg
Design and Construction	
Design factor (inboard hanging)	1.15
Design factor (outboard hanging and deployed)	2.0
Design life	20 years
Design temperature	-4 to 113°F / -20 to 45°C
Environmental inertial load (acceleration due to vessel motion during transportation)	±0.5g in all directions
Environmental inertial load (acceleration due to vessel motion during operations)	±0.5g in vertical direction and ±0.3g in transverse directions
Design and certification – performance	DNVGL-ST-0378
Design and certification – transport and handling	DNVGL-ST-E0273 2.7-3 (R30)
Sheave type	Flag Sheave (±7°)
Maximum pitch angle	±15°
Maximum roll angle	±30°
Bullet and latch engagement indicator	Mechanical flags and signal

Specifications	
Weight	57,320 lb / 26000 kg (approx.)
A-Frame outreach (approx.)	22.3 ft / 6.8m
Maximum height (boom arms right to base frame) (approx.)	30.8 ft / 9.4m
Shipping (LxWxH) (approx.)	26.4 x 12.96 x 12.80 ft 8.05 x 3.95 x 3.90m
Typical Dimensions of ROV to be handled (LxWxH)	13.1 x 7.2 x 16.7 ft 4.0 x 2.2 x 5.1m
Maximum working depth of ROV	13,123 ft / 4000m

Safety attributes	
Safety Standard	DNVGL-ST-0378
Hazardous Area Classification	Zone 2
Safety handrail on outboard edge	Yes



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