

Mechanical Pipe Lift Frames (PLF)

Facilitating repair and inspection operations



Mechanical pipe lift frames (PLFs) are capable of lifting pipelines up to 24 in diameter as far as 84 inches off the seafloor in order to facilitate repair and inspection operations.

Mudmats included with the PLFs fold to reduce deck space requirements on the vessel and to increase stability in the water column during deployment.

Standard mudmats are designed for 25 psf or higher soil strengths at rated PLF loading. Custom mudmats, clamp configurations, and load ratings are available upon request.

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Technical Specifications

| Dimensions | | |
|-----------------------------|-----------------------|-----------------------------|
| | | 80,000 lb model |
| Height | 14.93 ft / 4.55 m | 18.17 ft / 5.54 m |
| Width | 14.93 ft / 4.55 m | 20.17 ft / 6.15 m |
| Length (mudmat closed) | 22.3 ft / 6.8 m | 34.17 ft / 10.42 |
| Length (mudmat deployed) | 47.41 ft / 14.45 m | 53.83 ft / 16.41 m |
| Weight (in air) | 25,574 lb / 11,600 kg | 78,650 lb / 35,675 kg |
| Weight (in seawater) | 22,487 lb / 10,200 kg | 68,661 lb / 31,144 kg |
| Performance Specifications | | |
| Vertical lift load | 39,683 lb / 18,000 kg | 80,000 lb / 36,287 kg |
| Vertical lift distance | 84 in / 2.13 m | 72 in / 1.8 m |
| Lateral traverse load | 19,842 lb / 9,000 kg | 10,000 lb / 4,536 kg |
| Lateral traverse distance | 39.4 in / 1 m | 36 in / 0.9 m |
| Clamp compliant rotation | 5 degrees | +/- 10 degrees |
| Minimum soil strength | 1.2 kPa | 15 PSF @ 0 ft below mudline |
| Maximum seabed slope | 5 degrees | 7 degrees |
| Hydraulic Requirements | | |
| Vertical lift pressure | 2,750 psi @ 20 L/min | Class 4 Torque Tool |
| Lateral traverse pressure | 2,750 psi @ 20 L/min | Class 4 Torque Tool |
| Clamp open/close pressure | 1,550 psi @ 20 L/min | 1,550 psi @ 20 L/min |
| Mudmats open/close pressure | 2,750 psi @ 20 L/min | 2,750 psi @ 20 L/min |

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