



OFFSHORE LOADING STATIONS

PATENT PENDING

INNOVATIVE FLEXIBLE MATERIAL SPOOLING & COILING SOLUTIONS



OFFSHORE LOADING STATIONS

Offshore Loading Stations are designed to provide reliable, safe and efficient fluid transfer in various offshore applications. These systems can improve efficiency and safety on jack-ups, semis, drill ships, TLPs and FPSOs — any Offshore vessel where fluid and dry products are loaded from a service vessel. Loading stations are safer, more environmentally safe and extend hose life when compared to present deployment methods. Applications typically include transfer of bulk drilling materials such as bentonite, barite, dry cement and liquids like potable water, drill water, diesel oil, liquid mud, brine, sludge, dirty drain, etc.

Tulsa Power also offers systems designed for sea water (raw water) delivery and pre-loading operations on offshore vessels. Other products include drill line spoolers, wireline/slickline units, specialty spoolers, and winches.

BENEFITS

The **Offshore Loading Stations** offer:

Longest hose life available

- 4 times longer hose life
- Minimizes UV exposure
- Minimizes chance of kinking, impact & hang ups to hose
- Reduces hose fatigue

Safest means for storing and deploying hose

- Neatly and safely stores the hose
- Minimizes trip hazards and deck space usage
- Powered deployment and retrieval of the hose
- Minimizes manpower and operator exposure

Most environmentally safe loading operation

- Decreases chance of spills
- Minimizes chance of hose breaks and failures
- No need to break and make connections
- Ready access to hose ends during deployment



T U L S A P O W E R

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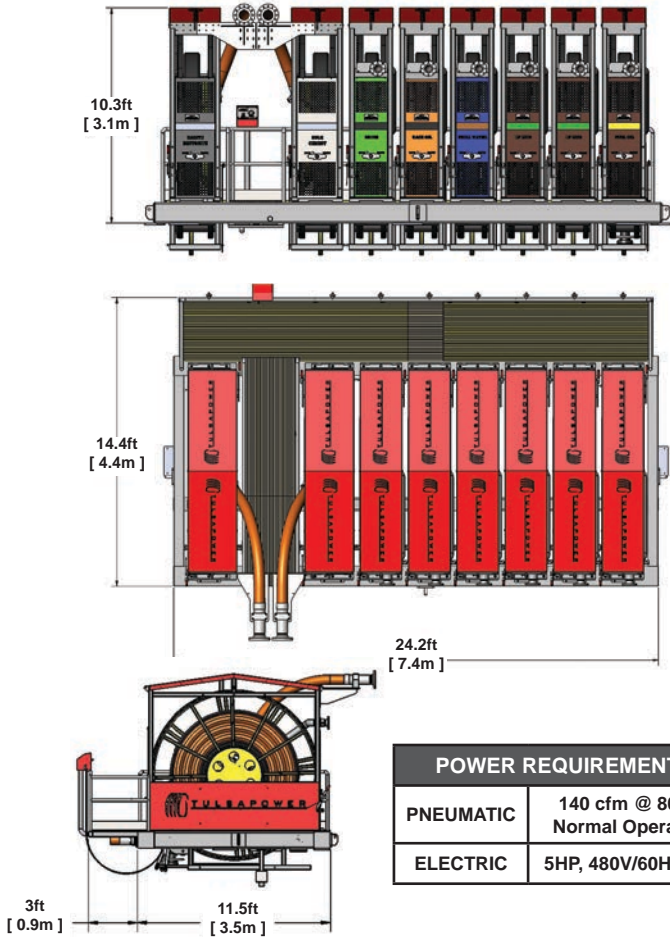


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WORLD'S MOST COMPACT LOADING STATION



POWER REQUIREMENTS	
PNEUMATIC	140 cfm @ 80psi Normal Operating
ELECTRIC	5HP, 480V/60Hz/3ph

(Dimensions above for a 8 reel, 180ft (55m) system)

TULSA POWER LOADING STATION BENEFITS:

- Innovative patent pending design makes the Tulsa Power Loading System the most compact and lightweight in the world.
- “Drop – In – Reels” are easily removable, maintainable and interchangeable
- Self-Lubricating, high strength, low corrosion composite gear offers easily replaceable sections
- Low torque drive components are easily accessible and offer long life
- System bulkhead allows easy make-up to existing loading systems piping
- Improved hose life with near complete UV protection
- Most complete hose solution with break-away coupling, swivels and low profile floatation. Break-away fitting provided when appropriate.
- Innovative drive system passively locks each reel position when not in use
- Rotating components are fully guarded
- Walkway on water side allow clear viewing of operation and easy access to hose end
- Corrosion resistant drip pans are under all risk areas. Retractable drip pan below the hose ends.
- Single point lifting offers easy installation on new or existing vessels

	180 FT HOSE CAPACITY (55 M)				400 FT HOSE CAPACITY (122 M)			
	3	5	8	10	3	5	8	10
WEIGHT (kg)	7,167	11,249	17,373	21,455	8,526	13,455	20,847	25,775
WEIGHT (lbs)	15,800	24,800	38,300	47,300	18,798	29,663	45,960	56,825
LENGTH (m)	4.9	5.5	6.1	6.8	4.9	5.5	6.1	6.8
LENGTH (ft)	19.4	21.8	24.2	26.6	19.4	21.8	24.2	26.6
DEPTH (m)	2.9	2.9	2.9	2.9	3.4	3.4	3.4	3.4
DEPTH (ft)	11.5	11.5	11.5	11.5	13.5	13.5	13.5	13.5
HEIGHT (m)	3.4	3.4	3.4	3.4	3.9	3.9	3.9	3.9
HEIGHT (ft)	13.2	13.2	13.2	13.2	15.2	15.2	15.2	15.2

(Dimensions & Weights are approximates for most common size LS)



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