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TWG & LANTEC

Power to Move the World / TWG brands LANTEC Experience and Reliability Offshore Projects Around the Globe

LANTEC Hydraulic Winches and Hoists

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LH Series Hoists

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Why Choose a LANTEC LW Series Winch?

Dimensional Data: Single Drive Dimensional Data: Dual Drive

Content is current effective 11/14/2011



Energy/Offshore

www.dovertwg.com

Contact a TWG sales representative about available configurations.

As a leader in product innovation, TWG is committed to the ongoing improvement of its equipment. TWG reserves the right to make changes to our products without notice. Tulsa Winch is part of TWG, a global leader in standard and engineered winch, gearbox and electronic monitoring systems.

TWG Headquarters PO Box 1130 Jenks OK 74037-1130 USA Phone: 918-298-8300

TWG CANADA / LANTEC 19350 - 22nd Ave Surrey, BC V3S 3S6 Canada Phone: +1 604-547-2100 salesinfo@dovertwg.com

LANTEC



Strength You Can Depend On

LANTEC® planetary winches are backed by the strength of TWG, a global leader in the development and manufacture of standard and engineered winch, gearbox and electronic monitoring systems for worldwide industries.

Headquartered in Tulsa, Oklahoma, TWG is comprised of six companies that specialize in industry-specific winches and supporting electronic systems. They include dp Winch, Gear Products, Inc., Greer Company, LANTEC Winch & Gear, Inc., Pullmaster Winch and Tulsa Winch, Inc.

TWG is part of the Dover Corporation, an NYSE-traded, multi-billion dollar corporation that manufactures a diverse range of engineered products and components for commercial and industrial use through more than 33 independent operating companies.









See more about the trusted brands and superior products of TWG at:

www.dovertwg.com



LH Series Hoists

Twelve models with line pulls from 15,000 to over 72,000 lbs (67-321 KN) assure you there's an LH Hoist for your crane application. High-efficiency gearing and high-capacity sprag clutches offer the highest reliability for your demanding job.

LW Series Winches

Extremely versatile winches, the LW Series is available in 20 sizes with line pulls from 12,000 to 300,000 lbs (53 kN to 1,334 kN). Virtually any drum size can be provided to suit your specific application.

Classic Series

Three basic models make up the classic LANTEC winch. Applications in Oil & Gas, Infrastructure and other industries are commonplace for these winches. Custom drum sizes are available for each job.

Brakes and Clutches

Standard brake solutions for high torque, low speed hydraulic motors with holding torque capacities up to 30,000 lb-ft (40,674 Nm). Custom brakes and clutches are available designed to meet your individual requirement.

Gear Reducers

A wide variety of custom and semi-custom designs are suitable for a myriad of industries including Oil & Gas, Material Handling, Infrastructure, etc. Torque ranges from 10,000 lb-ft to over 500,000 lb-ft (13,558 to over 678,000 Nm).

Custom Solutions

Almost any winch, gear reducer or brake can be designed and manufactured to meet your specific application requirements. LANTEC has been designing custom products for over 40 years. This tremendous experience allows us to assist you in designing and manufacturing the ideal solution for your most demanding projects. Contact us with your specifications.

Experience

LANTEC...Recognized worldwide for providing highly dependable hoists, winches and planetary drives for the most demanding applications. Over forty years of technical know-how and application experience are brought together with state-of-the-art manufacturing techniques to produce the ultimate in reliability, versatility, quality and value.

Reliability

Our low warranty cost is the envy of the industry and a testament to our rugged, reliable design.

Fast, dependable delivery with competitive pricing. LANTEC is responding to customer needs for minimal inventory and ever shorter lead times.



Offshore Crane







LANTEC

Energy - Offshore



Swivel, Riser & Mooring Line Handling Winch on FPSO – SOFEC



Jackup Drives on MODU (Mobile Offshore Drilling Unit)



API rated Crane winches on Offshore Production Platform



API rated Crane winches on MODU (Mobile Offshore Drilling Unit)!









Jack Up Drives









Marine Crane



TWG.



FPSO











Swivel Maintenance Hoist & Cart

FSO Rang Dong MV17













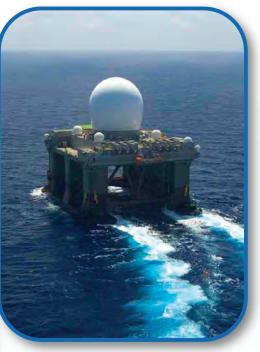
SBX Radar Post Scope: 8 x LWS 2200

BOEING®

1st layer line pull	46 Ton
1st layer line speed	22 ft/min 10 m/min
Cable diameter	1.5 in 38 mm
Cable storage	1240 ft 380 m











Gear Drives for Rack & Pinion Systems

Jack-up Rig - Ex Blake 101





Gear Drives for Rack & Pinion Systems

Details of Jacking System Gear Drive DB430-100







LANTEC

Mooring Leg Installation Winches

SOFEC



MOORING LEG INSTALLATION WINCHES

LANTEC Winch and Gear Inc of Langley, BC, designed and manufactured two Mooring Leg Installation Winches for SOFEC. Each winch is hydraulically driven by five LANTEC planetary drives powering a cable drum through a single large bull gear and is capable of developing approximately 1,250 kN-m of drum torque. These performance figures result in a line pull capability of 150 t [metric tons] of line pull at top layer. The winches are to carry 270 m of 66 mm wire rope and when installed will weigh a total of 25,000 kg each. In addition, one of the winches incorporates a high capacity automatic level winding system to ensure eyen spooling at high fleet angles. They will be used to install and tension anchor mooring legs to keep a ship on station for extended periods of time.

Professionals involved: Don McKay PEng (LANTEC), Will Fontenot PE (SOFEC).

Top layer line pull	150 Ton
Cable diameter	2.5 in 66 mm
Cable storage	885 ft 270 m

INNOVATION JULY

JULY/AUGUST 2008 49

TWG.

LANTEC

Pyrenees Development Project:

Disconnectable Turret
Mooring System

120 Ton Rope Winch

SOFEC









Mooring Winches for Dredger

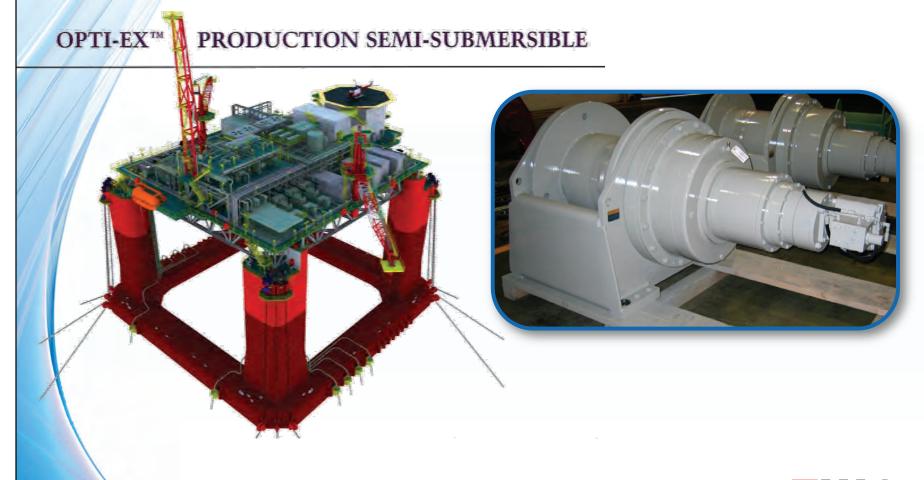


2 x H	Hydraulic winch	nes – LWS 1	700BB	
Mid laye	er line pull		38 Ton	
Mid laye	er line speed	50 ft/min /	′ 15 m/min	
Cable d	iameter	1 ½ i	n / 38 mm	
Cable s	torage	1,500	ft / 460 m	



















LANTEC LH Series Hoists and LW Series Winches are available with a wide variety of optional configurations and accessories to create the hoist that meets all your needs.

Drum Configurations Beyond the range of standard drums, LANTEC offers:

- · Alternate drum sizes quickly and efficiently manufactured to match your cable storage requirements
- Special cable anchoring methods including synthetic rope anchoring
- Multiple cable anchors for multiple cable or "On-Off" applications
- Drum divider for multiple cable applications
- Grooved drums with spiral grooving
- LeBus® parallel groove drum sleeves

Optional Gear Ratios LANTEC offers optional gear ratios to permit the most economical matching of performance requirements with motor performance.

Hydraulic Motor LANTEC supplies the hoist or winch with a hydraulic motor that matches the customer's hydraulic system to provide optimum performance. Hoists and winches are also available without motors for customers who prefer to supply their own.

Motor Mounting Configurations LANTEC provides either an SAE C or D motor mount. Other motor mounting configurations are available to support most hydraulic motors including DIN and ISO standards.

Ratchet & Pawl LANTEC offers a spring engaged, hydraulic pressure released ratchet and pawl package.

Multi-disc Brake LANTEC includes a standard multi-disc, friction brake with a sprag type, overrunning clutch for hoisting applications. The brake is available without the overrunning clutch for applications requiring a brake effective in both directions, such as slewing or positioning.

Drum Brake LANTEC offers a band brake acting directly on the drum. Band brakes are available with a variety of actuator types and in "marine duty" configurations.

Levelwind LANTEC provides a powered levelwind device to assist in proper winch (LW Series) cable spooling for applications with a large fleet angle.

Drum Pressure Roller LANTEC provides a roller, forced into contact with the cable on the drum by adjustable springs to assist with proper cable spooling. This option is also available with sensors indicating top and bottom layer conditions.

Encoder Drive LANTEC offers a light duty output shaft for driving a rotary encoder to monitor drum speed and/or position.

Coatings LANTEC provides Marine Epoxy and other special coatings.

® LeBus and the Grooved Sleeve design are Registered Trademarks of LeBus International Inc

personnel handling rating

While LANTEC LH
Series Hoists are
generally NOT intended
for personnel handling,
special configurations
are available for use on
offshore cranes
operated under the
provisions of American
Petroleum Institute
(API) Specification 2C.
Please consult factory.

LANTEC

Motor Selection

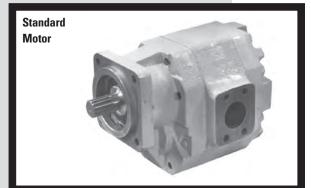
LANTEC LH Series Hoists and LW Series Winches utilize a gear motor designed for performance characteristics specifically suited to hoisting and winching applications.

For high-pressure hydraulic systems on mobile or offshore cranes and equipment employing piston pumps and high-grade system components, we offer SAE C or D motor mounting configurations.

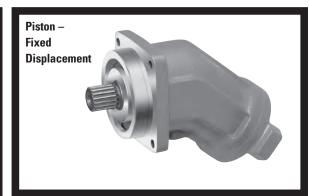
LANTEC can supply the hoist or winch with a variety of motor types and sizes to best match your system configuration and performance needs.

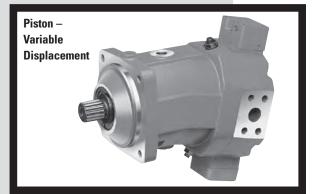
Some crane and equipment manufacturers prefer to retain complete system responsibility. Therefore, LANTEC offers the hoist or winch shipped from the factory without a motor. This allows the customer to supply the Motor and Brake Valve that best suits the application.

LANTEC Sales & Application Engineering professionals are pleased to assist customers with appropriate motor selection.













*Suitable for LANTEC LW Series Winches





Parts

LANTEC stocks all wear parts for quick shipment to any location world wide. Expedited parts service is available for same day shipment if ordered by 11:00 am (PST).

Our Parts professionals work hard to ensure you receive the correct parts for your hoist. When a hoist serial number is provided with your order, we cross-check to ensure you have ordered the right parts for the job.

Service

LANTEC provides in-factory service of your hoist including visual inspection, magnetic particle inspection, re-certification, rebuild, testing and re-coating.



Application Data Sheet

Maximum	What is the maximum line pull required at the drum for the application? This should		□ lb	Application Type
Line Pull Required	take into account the basic payload weight, cable weight, tackle weight, parts of line, sheave efficiency, load dynamics, load acceleration/deceleration time, etc.		☐ ton ☐ kg ☐ tonne	Describe General Applic
Condition for Maximum Pull Requirement	Is this maximum line pull required on the top layer, mid (mean) layer, or first layer? [This varies between applications, however most crane hoists require the maximum pull capability on all layers, thus the top layer is specified in that case.]	☐ 1st Layer ☐ Mid Layer ☐ Top Layer	◆ Check One	
Line Speed Required	What is the line speed required at the drum for the application? This should take into account the parts of line.		☐ fpm ☐ m/min	
Condition for Line Speed Requirement	Is this line speed required on the top layer, mid (mean) layer, or first layer?	☐ 1st Layer ☐ Mid Layer ☐ Top Layer	◆ Check One	
Cable (Wire Rope) Size	Select the appropriate cable size for the application. This selection should consider the maximum load and the factor of safety, which may be dictated by codes or rules relevant to the application.		□ in □ mm	
Length of Cable on Drum	Determine the total length of cable to be held on the drum. This should take into account the parts of line in the cable system, the total load travel requirement and over-travel margin. In addition, the cable length on the drum must include the mandatory minimum 5 "dead" wraps of cable to be left on the drum at all times (to supplement the cable termination system and minimize the possibility of reverse wrapping the cable on the drum).		□ ft □ m	
Minimum Drum Barrel Diameter	Determine the minimum allowable drum barrel diameter. This is often dictated by codes or rules relevant to the application and often expressed as a "Minimum D:d Ratio", that is, the ratio of first layer pitch diameter to cable diameter. This ratio affects cable bending stress and wear; generally the larger the D:d ratio the longer the cable life will be. [Winching: LANTEC recommends a minimum of 14:1. Hoisting: A ratio of 18:1 is typical for crane applications.]		□ in □ mm	Considering the v
Hydraulic Power Supply	If the hydraulic system is predetermined, we will use this data to help select the gear ratio and motor size to best suit the performance requirements. If the hydraulic system is not predetermined, then we will advise the requirements based upon		□ gpm □ lpm	winch sizes, gear characteristics a performance, the
	optimized selection of gear ratio and motor size.		□ psi □ bar	become complex allowing our Sales
Preferred Hydraulic Motor Type	To be indicated if there is a preference.	☐ Gear ☐ Piston	◆ Check One	professionals to a model and option demanding applic configuring a ho
Distance to Fixed Sheave	The distance from the cable drum axis to the axis of the first, non-floating sheave. This distance will be used to determine the cable drum width that will ensure proper cable spooling. The shorter the distance the narrower the drum must be.		□ ft □ m	application, please Application Data S at 604-530-2889.



vide variety of hoist and ratios, hydraulic motor and hydraulic system selection process can LANTEC recommends & Application Engineering assist in determining the is that satisfy your most ations. For assistance in oist or winch for your e copy and fill out this Sheet and fax to LANTEC

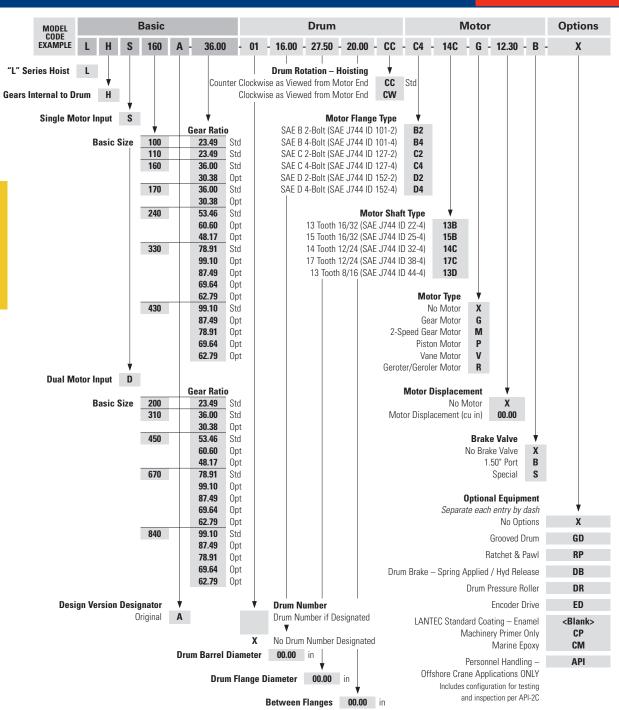


Model Code Description

Model Code Example

LHS160A-36.00 - 01-16.00-27.50-20.00-CC - C4-14C-G-12.30-B-X

The above code is an example of the alpha-numeric designation given to an LH Series Hoist that has certain specifications. This is broken down below to explain the meaning of each designation and to describe the various possible specifications for the LH Series Hoist.



Line pulls from 15,000 lb to 72,000 lb (67 kN to 321 kN))

This catalogue contains detailed sales information on the Lantec LH Series Hoists.

With 12 basic models, a modular design and flexible input options,

LANTEC LH Series Hoists suit many applications.



What makes a **LANTEC LH Series Hoist** superior to the competition?

The answer is in the engineering details. Explore the benefits of LANTEC's feature rich design on the following pages.

LANTEC is a name you can trust.

For over 40 years, LANTEC has been designing and building very reliable and robust hoists, winches and planetary gear drive products for the offshore drilling and production market.

LANTEC offers hoists and planetary drives for the offshore industry certified to various regulatory bodies, including API (American Petroleum Institute), ABS (American Bureau of Shipping), and DNV (Det Norsk Veritas).

Why Choose LANTEC?

LANTEC puts reliability above all else.

LANTEC saves money in the long term.

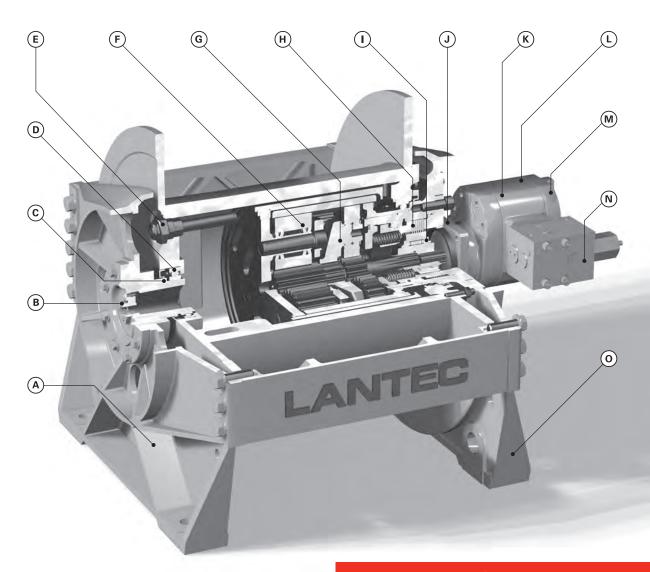
LANTEC builds a superior hoist in every detail.

LANTEC provides the security and peace of mind that comes from knowing you've purchased the most cost effective and reliable hoist available for your demanding application.

A Look Inside at the LH Series Features

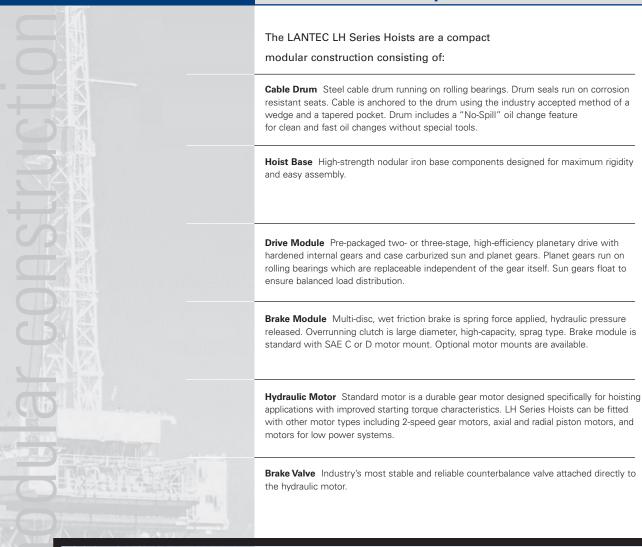
Typical LH Series Hoist

Α	High-strength nodular iron base components
В	Oil level sight gauge for reliable and convenient fluid level monitoring
С	Corrosion resistant seal running surfaces for marine duty dependability
D	High-capacity rolling bearings for long, trouble-free life with minimum maintenance
E	Built-in "No-Spill" oil drain system for clean and fast oil changes — no special tools required
F	Planet gear rolling bearings replaceable independent of the gear itself for lower cost rebuilds
G	High-efficiency planetary gearing for optimum performance
н	Multi-disc Brake — spring force applied and hydraulic pressure released for positive load holding
ı	Large diameter, high-capacity, sprag type, overrunning clutch for reliable engagement and long life
J	SAE C or D motor mounts to accept a wide variety of motors
K	Standard gear motor for durability
L	Optional 2-speed gear motor for faster "light-load" speeds
M	Optional high-efficiency piston motors to match high-pressure hydraulic systems and achieve optimum hoist performance
N	Brake Valve for controlled lowering and high energy transfer rate
0	Many models have mounting dimensions directly interchangeable with competitive brands



Click here to see the many Options and Accessories that are available to meet your most demanding applications.

Technical Description



LANTEC LH Series Hoists house the planetary reduction gearing and friction brake within the large diameter drum barrel providing for a very compact design and long cable life. This series is suitablefor most crane and lifting applications requiring at least an 18:1 D:d ratio (First layer pitch diameter:Cable diameter).

For applications that DO NOT require drums with a large D:d ratio consider the more economical LANTEC LW Series Winches available with smaller drum barrels and the planetary reduction gearing and friction brake located external to the drum. A wide range of models and drum sizes are available.

LANTEC LH Series Hoists

are available with single or dual drives. Dual drives
have two motors, two brakes, and two drive
modules, for high-horsepower capability.

brake operation

When hoisting, the Multi-disc Brake remains applied with the hydraulic motor driving directly into the gear reduction, through an overrunning clutch. When hoisting stops, the overrunning clutch locks the input shaft to the already applied Multi-disc Brake ensuring no backdrop of the load. When lowering, the hydraulic motor is pressurized for the lowering rotation. This pressure is also applied to the Multi-disc Brake, releasing it fully. The Brake Valve then controls load lowering in response to operator demand. When the operator intends to stop, the main control valve is moved to neutral, the lowering pressure diminishes, the Brake Valve closes to stop the load, and the Multi-disc Brake applies as a "parking" brake to positively hold the load.

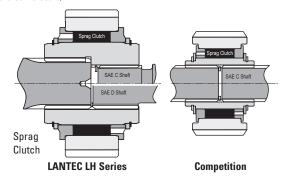


While LANTEC LH Series Hoists are generally NOT intended for personnel handling, special configurations are available for use on offshore cranes operated under the provisions of American Petroleum Institute (API) Specification 2C. Please consult factory.

Brake Valve LANTEC's Brake Valve is the industry's most stable and reliable, designed for high efficiency and capable of very high flow rates. Valve orifices are kept free from clogging with a built-in high-grade filter, reducing the probability of downtime due to a malfunctioning Brake Valve, one of the most common problems in the field. LANTEC LH Series Hoists are designed to save you money over the long term.

High Design Factor Pull tests (witnessed by ABS) on Model LHS160 proved that the representative hoist could withstand well over 3 times its rated drum torque without failure. This is indicative of LANTEC's conservative design approach.

Sprag Clutch LANTEC LH Series Hoists employ a high-capacity, long-life Sprag Clutch. LANTEC's Sprag Clutch incorporates a state-of-the-art, antirollover feature ensuring positive holding even under very high overload conditions. This illustration demonstrates the comparative size of LANTEC's sprag clutch to the lower capacity of the competition. (Shown at the same scale).



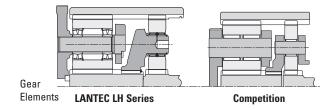
Brake Springs LANTEC LH Series Hoists offer the added safety of redundancy in the brake springs. LANTEC uses 12 compression-type coil springs in parallel. These die springs are designed for use in the demanding mold industry and exhibit long life at very high cycles. In the unlikely event several springs were to fail, LANTEC's brake still retains sufficient capacity to stop and hold the load.

In comparison, the competition utilizes a single coil spring, or a single stack of washer-type springs stacked in a series. Brake capacity is lost with teh failure of even on spring.

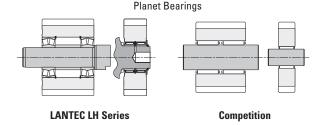
Self Contained Drive Modules Most LANTEC LH Series Hoist models are designed with the complete drive module removable as a single package. This feature helps maintain alignment of drive components and provides for faster, easier field service and convenient core exchange.

Modular Design LANTEC LH Series Hoists use many common components throughout the LH Series Hoist line, resulting in lower spare parts inventory cost. For example, the complete brake module is identical for all LH Series Hoists.

Larger, Longer Life Gearing LANTEC puts more gear capacity in LH Series Hoists, providing you with longer life and a higher degree of reliability. The following illustrations show the comparative size of the gear elements for equivalent hoists (shown at the same scale).



Replaceable Planet Bearings LANTEC LH Series Hoists employ only complete roller bearings in the Planet Gears, providing the benefit of low cost replacement of the bearings without having to replace the Planet Gear and the Planet Pin. With our competitors, replacing a Planet Bearing means an expensive replacement of the Planet Gear and Planet Pin, in addition to the bearing itself. LANTEC saves you money in the long term.



Motor Mountings LANTEC LH Series Hoists accommodate both SAE C and SAE D hydraulic motor frames.

One Seal Kit LANTEC LH Series Hoists use one Seal Kit to cover the complete LH Series Hoist line, offering the advantage of stocking fewer standby parts and reducing inventory costs.

Seal Running Surfaces LANTEC LH Series Hoists include corrosion resistant running surfaces for all oil seals, offering long seal life even in demanding, marine environments. This important feature means that expensive parts won't need to be replaced due to corrosion of the seal running surface and subsequent seal failure. This reduces the danger of running the hoist without oil, lowers the cost of downtime and the environmental risk of an oil leak.

Gear Ratios LANTEC LH Series Hoists have a broad selection of gear ratios. This allows better matching of the hoist to your exacting requirements.

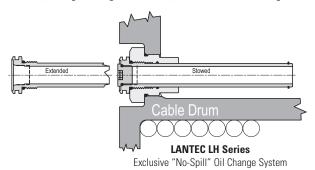
Robust Base LANTEC LH Series Hoists use cast base components and heavy-duty cast tie bars, providing excellent assembly alignment and a more rigid base for handling and mounting. The higher torsional stiffness

helps to keep internal parts aligned when under load. In addition, the tie bars are resistant to corrosion *compared to the thin, steel plate used by our competitors*.

Optional Drum Sizes LANTEC LH Series Hoists offer a more extensive list of standard drum sizes. Custom drum sizes are available with reasonable delivery at an attractive price for your special applications.

Exclusive "No-Spill" Oil Change System Most LANTEC

LH Series Hoists include a self-contained, "No-Spill" oil change system for faster and environmentally friendly oil changes. Using ordinary tools, the self-contained oil drain tube is extended from the drum, to the outside of the hoist, making oil changes convenient, safe and consistent with good



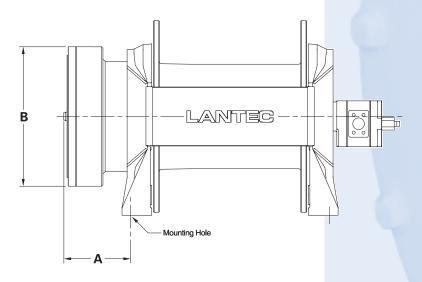
environmental practice.

Magnetic Plug LANTEC LH Series Hoists include a heavy-duty magnet, extending into the oil sump. This magnet is built into the large oil fill plug and is easily removed for inspection. The magnet traps significant metal particles contained in the oil, resulting in better lubricating properties and longer component life. The quantity of particulate on the magnet, together with periodic oil sample analysis, is a good diagnostic tool that can provide an indication of wear inside the hoist.

Ratchet & Pawl For boom handling, LANTEC LH Series Hoists are available with a Ratchet and Pawl for positive locking of the drum. (Field installable Ratchet and Pawl Kits are also available.) On LH Series Hoists, the complete Pawl package is mounted within the hoist base. Competitor products have the pawl mounted separately, bolted to the crane itself. You save money with LANTEC by having far lower installation costs, not to mention saving the cost of having to periodically inspect and adjust the alignment of the Pawl to the Ratchet.

Interchangeability LANTEC LH Series Hoists have identical foot mounting dimensions to many competitor hoists, allowing easy field replacement with the superior LANTEC LH Series Hoist. Line pulls and line speeds are comparable, or better. In general, drum sizes and wire rope capacities are comparable.

	Hoist Model		nting fset	Diameter				
			Α	В				
		dime	nsions show	n in inches/r	nm			
S	LHS100	11.63	295	17.50	444.5			
	LHS110	11.81	300	17.50	444.5			
	LHS160	11.31	287	17.50	444.5			
	LHS170	11.63	295	17.50	444.5			
0	LHS240	11.63	295	24.00	610			
	LHS330	11.63	295	24.00	610			
	LHS430	11.63	295	24.00	610			



Details

LANTEC's optional Drum Brake for LHS Series Hoists offers an additional level of safety for hoisting operations.

Acting directly on the hoist drum, this wet, multi-disc brake is designed to stop and hold the load in the unlikely event of power train failure. The Drum Brake is intended specifically as an emergency brake. Normal braking (dynamic and holding) is done through the brake valve and motor brake.

The Drum Brake mounts to the end of the hoist, opposite the motor.

Features

- Designed for emergency load stopping and holding
- Acts directly on the hoist drum, independent from motor, sprag clutch, motor brake and planetary gears
- Wet, multi-disc design is completely enclosed, running in lubricating oil, unaffected by the environment and corrosion resistant
- Spring applied and hydraulic pressure released for positive engagement
- Isolated from system back pressure to ensure full brake capacity at all times
- No adjustments necessary, reducing your maintenance costs
- Models available for all LHS Series Hoists

Cable Drum Capacities (Imperial Measurements)

■ GO TO METRIC **MEASUREMENTS**

■ BACK TO **LANTEC OFFSHORE** TABLE OF CONTENTS

This chart shows the estimated gross cable capacity (feet) of the drum, assuming proper spooling. No allowance has been made for "dead" wraps (mandatory minimum of 5 "dead" wraps of cable to be left on the drum at all times). Allowance has been made for "free flange" or "free board" according to API-2C requiring that the flange extend a minimum of 1/2" over the top layer of rope at all times.

LANTEC is pleased to provide a layer-by-layer drum capacity chart upon request.

Model		Orum Dim	ensions (ir	h)			N	lominal W	ire Rope [Diameter (in)		
	Drum Number	Barrel Diameter	Flange Diameter	Between Flanges	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
LHS100	01 02	13.00 13.00	23.00 23.00	17.00 23.00	1,402 1,897	866 1,172	623 843						
LHS110	01 02	11.50 11.50	20.00 20.00	16.00 20.25	880 1,113	613 776	426 539						
LHS160	01 02	16.00 16.00	27.50 27.50	20.00 32.00		1,407 2,252	1,038 1,662	763 1,221					
LHS170	01 02	15.00 15.00	23.00 23.00	17.00 23.00		645 873	427 578	376 509					
LHS240	01 02	18.00 18.00	33.00 33.00	24.38 38.62			1,894 3,002	1,458 2,310	1,116 1,769				
LHS330	01 02 03 04 05	20.00 20.00 22.00 22.00 22.00 22.00	33.00 33.00 33.00 33.00 33.00	23.88 38.13 23.88 38.13 56.00				1,082 1,728 942 1,504 2,210	975 1,557 844 1,348 1,979	712 1,137 589 941 1,381	540 862 1,267		
LHS430	01 02 03 04 05	20.00 20.00 22.00 22.00 22.00	33.00 33.00 33.00 33.00 33.00	23.88 38.13 23.88 38.13 56.00					975 1,557 844 1,348 1,979	712 1,137 589 941 1,381	540 862 1,267		
LHD200	01 02 03 04 05	15.00 14.00 14.00 14.00 14.00	23.00 27.50 27.50 33.00 33.00	23.63 23.88 30.88 30.00 37.25		897 2,026 2,619 4,002 4,970	594 1,334 1,725 2,890 3,589	523 1,007 1,302 2,042 2,536	334 750 970 1,626 2,019				
LHD310	01 02 03 04 05	17.00 18.00 18.00 18.00 18.00	23.00 27.50 27.50 33.00 33.00	24.50 24.88 30.88 30.00 37.25			494 944 1,172 2,333 2,896	275 640 795 1,795 2,229	244 573 711 1,374 1,707	220 371 461 1,037 1,287			
LHD450	01 02 03 04 05	20.00 20.00 18.00 18.00 18.00	27.50 27.50 33.00 33.00 33.00	37.25 55.13 32.13 36.63 54.50				756 1,120 1,923 2,192 3,261	673 996 1,472 1,678 2,497	386 571 1,110 1,266 1,883	351 520 816 930 1,384		
LHD670	01 02 03 04 05	22.00 22.00 22.00 22.00 22.00 22.00	33.00 33.00 38.00 38.00 38.00	36.38 54.25 31.38 35.88 53.75					1,286 1,917 1,668 1,907 2,857	897 1,338 1,260 1,440 2,158	823 1,227 1,163 1,330 1,993	543 810 863 986 1,478	
LHD840	01 02 03 04 05	22.00 22.00 22.00 22.00 22.00 22.00	33.00 38.00 42.00 42.00 46.00	36.38 35.88 35.63 53.50 35.38						897 1,440 2,056 3,088 2,738	823 1,330 1,606 2,412 2,217	543 986 1,231 1,849 1,778	505 924 1,157 1,737 1,405

Capacity (ft) Consult Factory Not Available

Estimated Gross Cable

Important Note: Some drum and cable combinations may not meet an 18:1 D:d requirement.

This chart shows the estimated gross cable capacity (meters) of the drum, assuming proper spooling. No allowance has been made for "dead" wraps (mandatory minimum of 5 "dead" wraps of cable to be left on the drum at all times).

Allowance has been made for "free flange" or "free board" according to API-2C requiring that the flange extend a minimum of 12.7 cm over the top layer of rope at all times.

LANTEC is pleased to provide a layer-by-layer drum capacity chart upon request.

	Model	D	rum Dime	ensions (mi	m)			N	ominal Wi	re Rope D	iameter (n	nm)		
		Drum Number	Barrel Diameter	Flange Diameter	Between Flanges	12.7	15.8	19.0	22.2	25.4	28.6	31.7	34.9	38.1
1	LHS100	01 02	330 330	584 584	432 584	427 578	264 357	190 257						
l"	LHS110	01 02	292 292	508 508	406 514	268 339	187 237	130 164						
	LHS160	01 02	406 406	699 699	508 813		429 686	316 507	233 372					
	LHS170	01 02	381 381	584 584	432 584		197 266	130 176	115 155					
at	LHS240	01 02	457 457	838 838	619 981			577 915	444 704	340 539				
е	LHS330	01 02 03 04 05	508 508 559 559 559	838 838 838 838 838	607 969 607 969 1,422				330 527 287 458 674	297 475 257 411 603	217 347 180 287 421	165 263 386		
rt	LHS430	01 02 03 04 05	508 508 559 559 559	838 838 838 838 838	607 969 607 969 1,422					297 475 257 411 603	217 347 180 287 421	165 263 386		
	LHD200	01 02 03 04 05	381 356 356 356 356	584 699 699 838 838	600 607 784 762 946		273 618 798 1,220 1,515	181 407 526 881 1,094	159 307 397 622 773	102 229 296 496 615				
	LHD310	01 02 03 04 05	432 457 457 457 457	584 699 699 838 838	622 632 784 762 946			151 288 357 711 883	84 195 242 547 679	74 175 217 419 520	67 113 141 316 392			
	LHD450	01 02 03 04 05	508 508 457 457 457	699 699 838 838 838	946 1,400 816 930 1,384				230 341 586 668 994	205 304 449 511 761	118 174 338 386 574	107 158 249 283 422		
	LHD670	01 02 03 04 05	559 559 559 559 559	838 838 965 965 965	924 1,378 797 911 1,365					392 584 508 581 871	273 408 384 439 658	251 374 354 405 607	166 247 263 301 450	
1	LHD840	01 02 03 04 05	559 559 559 559 559	838 965 1,067 1,067 1,168	924 911 905 1,359 899						273 439 627 941 835	251 405 490 735 676	166 301 375 564 542	154 282 353 529 428

Estimated Gross Cable Capacity (meters)

Important Note: Some drum and cable combinations may not meet an 18:1 D:d requirement.

This table shows the basic hoist performance data and limitations based on the standard gear ratio and motor for each model. Considering the wide variety of hoist sizes, gear ratios, hydraulic motor characteristics and hydraulic system performance, the hoist selection process can become complex.

LANTEC recommends allowing our Sales & Application Engineering professionals to assist in determining the hoist model and options that satisfy your most demanding applications. LANTEC will be pleased to supply a detailed specification sheet specifically for your application.

LANTEC reserves the right to revise performance figures without prior notice due to further development and technical improvements.

Model	D	rum Siz	е		Line Pul (Maximum)			ine Spec			ine Spee		Basi	c Output	Data	Bas	sic Input D	ata	н	lydraulic (Supply Re	equired w	rith Stand	lard Moto	r
	Drum Number	Barrel Diameter	Flange Diameter	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	Drum Torque Max.	Drum Speed Maximum Allowable	Drum Speed Max. with Standard Motor	Standard Gear Ratio	Input Torque Maximum Allowable	Input Speed Maximum Allowable	Standard Motor Maximum Speed	Standard Motor Displace- ment	Pressure Required (Run)	Pressure Required (Start)	Flow Required at Maximum Speed	Min. Flow Required for Smooth Performance	Recom- mended Minimum Flow
		in	in	lb	lb	lb	fpm	fpm	fpm	fpm	fpm	fpm	lb-in	rpm	rpm		lb-in	rpm	rpm	in³	psi(d)	psi(d)	gpm	gpm	gpm
Single																									
LHS100	01 & 02	13.00	23.00	15,000	12,200	9,400	481	624	767	414	537	659	101,500	136	117	23.49	4,500	3,200	2,750	12.30	2,500	2,870	150	28	50
LHS110	01 & 02	11.50	20.00	16,700	13,900	11,000	432	544	655	372	468	563	101,500	136	117	23.49	4,500	3,200	2,750	12.30	2,500	2,870	150	28	50
LHS160	01 & 02	16.00	27.50	18,700	15,500	12,300	387	489	591	332	420	507	155,600	89	76	36.00	4,500	3,200	2,750	12.30	2,500	2,870	150	28	50
LHS170	01 & 02	15.00	23.00	19,800	17,600	15,400	367	419	471	315	360	405	155,600	89	76	36.00	4,500	3,200	2,750	12.30	2,500	2,870	150	28	50
LHS240	01 & 02	18.00	33.00	24,100	19,400	14,700	294	388	482	253	334	414	226,400	60	51	53.46	4,500	3,200	2,750	12.30	2,500	2,870	150	28	50
LHS330	01 & 02 03, 04, 05	20.00 22.00	33.00 33.00	32,000 26,200	27,300 25,800	22,600 22,400	222 243	269 280	315 317	190 209	230 241	270 273	334,200 334,200	41 41	35 35	78.91 78.91	4,500 4,500	3,200 3,200	2,750 2,750	12.30 12.30	2,500 2,500	2,870 2,870	150 150	28 28	50 50
LHS430	01 & 02 03, 04, 05	20.00 22.00	33.00 33.00	40,000 36,500	33,600 31,800	27,100 27,100	178 194	220 228	262 262	153 167	189 196	225 225	419,700 419,700	32 32	28 28	99.10 99.10	4,500 4,500	3,200 3,200	2,750 2,750	12.30 12.30	2,500 2,500	2,870 2,870	150 150	28 28	50 50
Dual D	ive																								
LHD200	01 02 & 03 04 & 05	15.00 14.00 14.00	23.00 27.50 33.00	25,800 27,500 27,500	22,900 21,800 20,300	20,000 16,100 13,000	562 526 526	642 714 821	722 901 1,115	483 452 452	552 613 705	621 774 958	203,000 203,000 203,000	136 136 136	117 117 117	23.49 23.49 23.49	4,500 4,500 4,500	3,200 3,200 3,200	2,750 2,750 2,750	12.30 12.30 12.30	2,500 2,500 2,500	2,870 2,870 2,870	300 300 300	56 56 56	100 100 100
LHD310	01 02 & 03 04 & 05	17.00 18.00 18.00	23.00 27.50 33.00	34,800 33,000 33,000	33,300 29,400 26,500	31,700 25,800 20,000	416 439 439	437 500 582	457 561 724	357 377 377	375 430 500	392 482 622	311,200 311,200 311,200	89 89 89	76 76 76	36.00 36.00 36.00	4,500 4,500 4,500	3,200 3,200 3,200	2,750 2,750 2,750	12.30 12.30 12.30	2,500 2,500 2,500	2,870 2,870 2,870	300 300 300	56 56 56	100 100 100
LHD450	01 & 02 03, 04, 05	20.00 18.00	27.50 33.00	43,100 47,700	39,700 38,500	36,200 29,200	329 298	361 392	392 486	283 256	310 337	337 417	452,800 452,800	60 60	51 51	53.46 53.46	4,500 4,500	3,200 3,200	2,750 2,750	12.30 12.30	2,500 2,500	2,870 2,870	300 300	56 56	100 100
LHD670	01 & 02 03, 04, 05	22.00 22.00	33.00 38.00	57,800 57,800	51,300 48,400	44,700 38,900	246 246	282 306	317 365	211 211	242 263	273 314	668,400 668,400	41 41	35 35	78.91 78.91	4,500 4,500	3,200 3,200	2,750 2,750	12.30 12.30	2,500 2,500	2,870 2,870	300 300	56 56	100 100
LHD840	01 02 03 & 04 05	22.00 22.00 22.00 22.00	33.00 38.00 42.00 46.00	72,200 72,200 72,200 72,200	63,400 59,600 58,100 55,500	54,600 47,000 43,900 38,800	197 197 197 197	229 250 260 282	260 302 323 366	169 169 169 169	196 215 224 242	223 260 278 314	839,400 839,400 839,400 839,400	32 32 32 32 32	28 28 28 28	99.10 99.10 99.10 99.10	4,500 4,500 4,500 4,500	3,200 3,200 3,200 3,200	2,750 2,750 2,750 2,750 2,750	12.30 12.30 12.30 12.30	2,500 2,500 2,500 2,500	2,870 2,870 2,870 2,870	300 300 300 300	56 56 56 56	100 100 100 100

This table shows the basic hoist performance data and limitations based on the standard gear ratio and motor for each model. Considering the wide variety of hoist sizes, gear ratios, hydraulic motor characteristics and hydraulic system performance, the hoist selection process can become complex.

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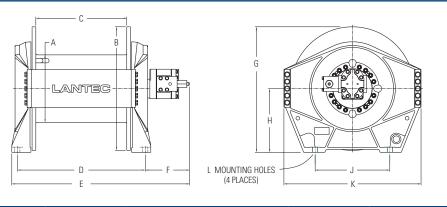
LANTEC reserves the right to revise performance figures without prior notice due to further development and technical improvements.

Model	Di	rum Siz			Line Pull			ne Spee			ine Spee		Rasi	Basic Output Data		Ras	ic Input D	eta	н	vdraulic S	Supply Re	Required with Standard Motor			
Wiodei	D	Iuiii Siz	6		(Maximum)		(Max	imum Állow	rable)	(Maximum	with Stand	ard Motor)	Dasi	t Output		Das	ic iliput b	ala		yuraunc e	ouppiy ne	quireu w	itii Stailu		
	Drum Number	Barrel Diameter	Flange Diameter	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	Drum Torque Max.	Drum Speed Maximum Allowable	Drum Speed Max. with Standard Motor	Standard Gear Ratio	Input Torque Maximum Allowable	Input Speed Maximum Allowable	Standard Motor Maximum Speed	Standard Motor Displace- ment	Pressure Required (Run)	Pressure Required (Start)	Flow Required at Maximum Speed	Min. Flow Required for Smooth Performance	Recom- mended Minimum Flow
		mm	mm	kN	kN	kN	mpm	mpm	трт	mpm	трт	mpm	Nm	rpm	rpm		Nm	rpm	rpm	cm³	Bar	Bar	Ipm	lpm	lpm
Single I	Drive	-	ı																						
LHS100	01 & 02	330.2	584.2	67	54	42	147	190	234	126	164	201	11,468	136	117	23.49	508	3,200	2,750	202	172	198	568	106	189
LHS110	01 & 02	292.1	508.0	74	62	49	132	166	200	113	143	172	11,468	136	117	23.49	508	3,200	2,750	202	172	198	568	106	189
LHS160	01 & 02	406.4	698.5	83	69	55	118	149	180	101	128	155	17,580	89	76	36	508	3,200	2,750	202	172	198	568	106	189
LHS170	01 & 02	381.0	584.2	88	78	69	112	128	144	96	110	123	17,580	89	76	36	508	3,200	2,750	202	172	198	568	106	189
LHS240	01 & 02	457.2	838.2	107	86	65	90	118	147	77	102	126	25,580	60	51	53.46	508	3,200	2,750	202	172	198	568	106	189
LHS330	01 & 02 03, 04, 05	508.0 558.8	838.2 838.2	142 117	121 115	101 100	68 74	82 85	96 97	58 64	70 73	82 83	37,759 37,759	41 41	35 35	78.91 78.91	508 508	3,200 3,200	2,750 2,750	202 202	172 172	198 198	568 568	106 106	189 189
LHS430	01 & 02 03, 04, 05	508.0 558.8	838.2 838.2	178 162	149 141	121 121	54 59	67 69	80 80	47 51	58 60	69 69	47,419 47,419	32 32	28 28	99.10 99.10	508 508	3,200 3,200	2,750 2,750	202 202	172 172	198 198	568 568	106 106	189 189
Dual Dr	ive																								
	01 02 & 03 04 & 05	381.0 355.6 355.6	584.2 698.5 838.2	115 122 122	102 97 90	89 72 58	171 160 160	196 218 250	220 275 340	147 138 138	168 187 215	189 236 292	22,936 22,936 22,936	136 136 136	117 117 117	23.49 23.49 23.49	508 508 508	3,200 3,200 3,200	2,750 2,750 2,750	202 202 202	172 172	198 198 198	1,136 1,136 1,136	212 212 212	379 379 379
	01 02 & 03 04 & 05	431.8 457.2 457.2	584.2 698.5 838.2	155 147 147	148 131 118	141 115 89	127 134 134	133 152 177	139 171 221	109 115 115	114 131 152	119 147 190	35,161 35,161 35,161	89 89 89	76 76 76	36.00 36.00 36.00	508 508 508	3,200 3,200 3,200	2,750 2,750 2,750	202 202 202	172 172	198 198 198	1,136 1,136 1,136	212 212 212	379 379 379
LHD450	01 & 02 03, 04, 05	508.0 457.2	698.5 838.2	192 212	177 171	161 130	100 91	110 119	119 148	86 78	94 103	103 127	51,159 51,159	60 60	51 51	53.46 53.46	508 508	3,200 3,200	2,750 2,750	202 202	172 172	198 198	1,136 1,136	212 212	379 379
LHD670	01 & 02 03, 04, 05	558.8 558.8	838.2 965.2	257 257	228 215	199 173	75 75	86 93	97 111	64 64	74 80	83 96	75,519 75,519	41 41	35 35	78.91 78.91	508 508	3,200 3,200	2,750 2,750	202 202	172 172	198 198	1,136 1,136	212 212	379 379
LHD840	01 02 03 & 04 05	558.8 558.8 558.8 558.8	838.2 965.2 1066.8 1168.4	321 321 321 321	282 265 258 247	243 209 195 173	60 60 60	70 76 79 86	79 92 98 112	52 52 52 52 52	60 66 68 74	68 79 85 96	94,839 94,839 94,839 94,839	32 32 32 32	28 28 28 28	99.10 99.10 99.10 99.10	508 508 508 508	3,200 3,200 3,200 3,200 3,200	2,750 2,750 2,750 2,750	202 202 202 202 202	172 172 172 172	198 198 198 198	1,136 1,136 1,136 1,136	212 212 212 212	379 379 379 379

Dimensional Data: LHS Series-Single Drive (Imperial Data)

The dimensions shown are for general information. Only a detailed Certified Installation Drawing, specific to your hoist, should be used for final installation dimensions. Certified Installation Drawings are available from LANTEC upon request.

Many models have mounting dimensions directly interchangeable with competitor brands.

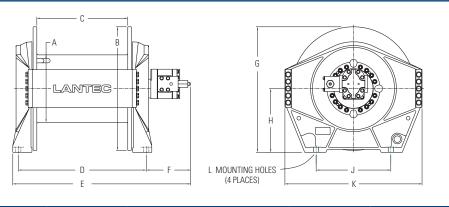


Dimensions E and F are based on the Standard Motor. Length will vary with optional motors.

Model	Drum Number	Barrel Diameter	Flange Diameter	Between Flanges	Mounting Holes	Length	Mounting Offest	Height	Height to Center	Mounting Holes	Width	Mounting Hole Diameter
		Α	В	С	D	E	F	G	Н	J	K	L
LHS 9	Series	- Single C	Orive					All dimensions are in inch	es.			
LHS100	01	13.00	23.00	17.00	23.50	38.26	13.51	23.50	12.00	14.75	27.00	1.31
	02	13.00	23.00	32.00	29.50	44.26	13.51	23.50	12.00	14.75	27.00	1.31
LHS110	01	11.50	20.00	16.00	21.50	36.50	13.81	20.50	10.50	13.25	24.00	1.06
	02	11.50	20.00	20.25	25.75	40.75	13.81	20.50	10.50	13.25	24.00	1.06
LHS160	01	16.00	27.50	20.00	26.38	40.83	13.14	28.00	14.25	21.00	31.50	1.06
	02	16.00	27.50	32.00	38.38	52.83	13.14	28.00	14.25	21.00	31.50	1.06
LHS170	01	15.00	23.00	17.00	23.50	38.26	13.51	23.50	12.00	14.75	27.00	1.31
	02	15.00	23.00	23.00	29.50	44.26	13.51	23.50	12.00	14.75	27.00	1.31
LHS240	01	18.00	33.00	24.36	34.29	47.72	11.93	33.50	17.00	20.00	37.00	1.38
	02	18.00	33.00	38.61	48.54	62.00	11.93	33.50	17.00	20.00	37.00	1.38
LHS330	01	20.00	33.00	23.88	34.29	47.72	11.93	33.50	17.00	20.00	37.00	1.38
	02	20.00	33.00	38.18	48.54	62.00	11.93	33.50	17.00	20.00	37.00	1.38
	03	22.00	33.00	23.88	34.29	47.72	11.93	33.50	17.00	20.00	37.00	1.38
	04	22.00	33.00	38.13	48.54	62.00	11.93	33.50	17.00	20.00	37.00	1.38
	05	22.00	33.00	56.00	66.41	79.84	11.93	33.50	17.00	20.00	37.00	1.38
LHS430	01	20.00	33.00	23.88	34.29	47.72	11.93	33.50	17.00	20.00	37.00	1.38
	02	20.00	33.00	38.18	48.54	62.00	11.93	33.50	17.00	20.00	37.00	1.38
	03	22.00	33.00	23.88	34.29	47.72	11.93	33.50	17.00	20.00	37.00	1.38
	04	22.00	33.00	38.13	48.54	62.00	11.93	33.50	17.00	20.00	37.00	1.38
	05	22.00	33.00	56.00	66.41	79.84	11.93	33.50	17.00	20.00	37.00	1.38

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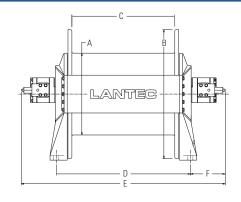


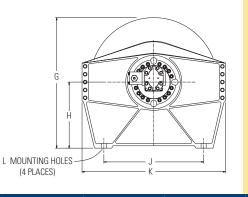
Dimensions E and F are based on the Standard Motor. Length will vary with optional motors.

Model	Drum Number	Barrel Diameter	Flange Diameter	Between Flanges	Mounting Holes	Length	Mounting Offest	Height	Height to Center	Mounting Holes	Width	Mounting Hole Diameter
		Α	В	С	D	E	F	G	Н	J	K	L
LHS	Series	- Single Drive All dimensions are in millimeters.										
LHS100	01	330	584	432	597	972	343	597	305	375	686	33
	02	330	584	813	749	1,124	343	597	305	375	686	33
LHS110	01	292	508	406	546	927	351	521	267	337	610	27
	02	292	508	514	654	1,035	351	521	267	337	610	27
LHS160	01	406	699	508	670	1,037	334	711	362	533	800	27
	02	406	699	813	975	1,342	334	711	362	533	800	27
LHS170	01	381	584	584	749	1,124	343	597	305	375	686	33
	02	381	584	584	749	1,124	343	597	305	375	686	33
LHS240	01	457	838	618	871	1,212	303	851	432	508	940	35
	02	457	838	981	1,233	1,575	303	851	432	508	940	35
LHS330	01	508	838	607	871	1,212	303	851	432	508	940	35
	02	508	838	970	1,233	1,575	303	851	432	508	940	35
	03	559	838	607	871	1,212	303	851	432	508	940	35
	04	559	838	969	1,233	1,575	303	851	432	508	940	35
	05	559	838	1,422	1687	2,028	303	851	432	508	940	35
LHS430	01	508	838	607	871	1,212	303	851	432	508	940	35
	02	508	838	970	1,233	1,575	303	851	432	508	940	35
	03	559	838	607	871	1,212	303	851	432	508	940	35
	04	559	838	607	871	1,212	303	851	432	508	940	35
	05	559	838	969	1,233	1,575	303	851	432	508	940	35

Dimensional Data: LHD Series-Dual Drive (Imperial Data)

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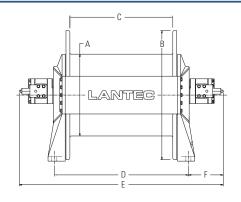


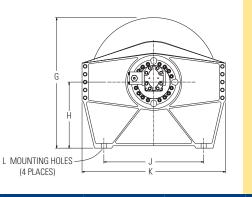
Dimensions E and F are based on the Standard Motor. Length will vary with optional motors.

Model	Drum Number	Barrel Diameter	Flange Diameter	Between Flanges	Mounting Holes	Length	Mounting Offest	Height	Height to Center	Mounting Holes	Width	Mounting Hole Diameter
		Α	В	С	D	E	F	G	Н	J	K	L
LHD	D Series - Dual Drive All dimensions are in inches.											
LHD200	01 02 03 04 05	15.00 14.00 14.00 14.00 14.00	23.00 27.50 27.50 33.00 33.00	23.63 23.88 30.88 30.00 37.25	33.13 32.75 39.75 37.40 44.65	57.85 56.97 63.97 59.20 66.45	12.36 12.11 12.11 10.90 10.90	23.38 28.00 28.00 33.50 33.50	11.88 14.25 14.25 17.00 17.00	14.75 21.00 21.00 20.00 20.00	27.00 31.25 31.25 36.75 36.75	1.06 1.06 1.06 1.38 1.38
LHD310	01 02 03 04 05	17.00 18.00 18.00 18.00 18.00	23.00 27.50 27.50 33.00 33.00	24.50 24.88 30.88 30.00 37.25	33.88 34.25 40.25 41.79 49.04	58.10 58.47 64.47 63.59 70.84	12.11 12.11 12.11 10.90 10.90	25.75 28.00 28.00 33.50 33.50	14.25 14.25 14.25 17.00 17.00	21.00 21.00 21.00 20.00 20.00	31.25 31.25 31.25 36.75 36.75	1.06 1.31 1.06 1.38 1.38
LHD450	01 02 03 04 05	20.00 20.00 18.00 18.00 18.00	27.50 27.50 33.00 33.00 33.00	37.25 55.13 32.13 36.63 54.50	51.75 69.63 46.63 51.13 69.00	77.61 95.49 72.49 76.99 94.86	12.93 12.93 12.93 12.93 12.93	29.75 29.75 35.25 35.25 35.25	16.00 16.00 18.75 18.75 18.75	8 Bolts Consult Factory	34.50 34.50 40.00 40.00 40.00	1.38 1.38 1.38 1.38 1.38
LHD670	01 02 03 04 05	22.00 22.00 22.00 22.00 22.00	33.00 33.00 38.00 38.00 38.00	36.38 54.25 31.38 35.88 53.75	50.88 68.75 45.88 50.38 68.25	76.74 94.61 71.74 76.24 94.11	12.93 12.93 12.93 12.93 12.93	35.25 35.25 40.25 40.25 40.25	18.75 18.75 21.25 21.25 21.25	8 Bolts Consult Factory	40.00 40.00 45.00 45.00 45.00	1.38 1.38 1.38 1.38 1.38
LHD840	01 02 03 04 05	22.00 22.00 22.00 22.00 22.00 22.00	33.00 38.00 42.00 42.00 46.00	36.38 35.88 35.63 53.50 35.38	50.41 50.88 51.63 69.50 51.38	72.21 76.74 77.49 95.36 77.24	10.90 12.93 12.93 12.93 12.93	33.50 40.25 46.25 46.25 52.25	17.00 21.25 25.25 25.25 29.25	20.00 8 Bolts Consult Factory	36.75 45.00 49.00 49.00 53.00	1.38 1.38 1.38 1.38 1.38

Dimensional Data: LHD Series-Dual Drive (Metric Data)

The dimensions shown are for general information. Only a detailed Certified Installation Drawing, specific to your hoist, should be used for final installation dimensions. Certified Installation Drawings are available from LANTEC upon request.





Dimensions E and F are based on the Standard Motor. Length will vary with optional motors.

Model	Drum Number	Barrel Diameter	Flange Diameter	Between Flanges	Mounting Holes	Length	Mounting Offest	Height	Height to Center	Mounting Holes	Width	Mounting Hole Diameter
		Α	В	С	D	E	F	G	Н	J	K	L
LHD	Series	s - Dual Drive All dimensions are in millimeters.										
LHD200	01 02 03 04 05	381 356 356 356 356	584 699 699 838 838	600 607 784 762 946	842 832 1,010 950 1,134	1,469 1,447 1,625 1,504 1,688	314 308 308 277 277	594 711 711 851 851	302 362 362 432 432	375 533 533 508 508	686 794 794 933 933	27 27 27 35 35
LHD310	01 02 03 04 05	432 457 457 457 457	584 699 699 838 838	622 632 784 762 946	861 870 1,022 1,061 1,246	1,476 1,485 1,638 1,615 1,799	308 308 308 277 277	654 711 711 851 851	362 362 362 432 432	533 533 533 508 508	794 794 794 933 933	27 33 27 35 35
LHD450	01 02 03 04 05	508 508 457 457 457	699 699 838 838 838	946 1,400 816 930 1,384	1,314 1,769 1,184 1,299 1,753	1,971 2,425 1,841 1,956 2,409	328 328 328 328 328	756 756 895 895 895	406 406 476 476 476	8 Bolts Consult Factory	876 876 1,016 1,016 1,016	35 35 35 35 35
LHD670	01 02 03 04 05	559 559 559 559 559	838 838 965 965 965	924 1,378 797 911 1,365	1,292 1,746 1,165 1,280 1,734	1,949 2,403 1,822 1,936 2,390	328 328 328 328 328	895 895 1,022 1,022 1,022	476 476 540 540 540	8 Bolts Consult Factory	1,016 1,016 1,143 1,143 1,143	35 35 35 35 35
LHD840	01 02 03 04 05	559 559 559 559 559	838 965 1,067 1,067 1,168	924 911 905 1,359 899	1,280 1,292 1,311 1,765 1,305	1,834 1,949 1,968 2,422 1,962	277 328 328 328 328	851 1,022 1,175 1,175 1,327	432 540 641 641 743	20.00 8 Bolts Consult Factory	933 1,143 1,245 1,245 1,346	35 35 35 35 35

Line pulls from 12,000 lb to 300,000 lb (53 kN to 1,334 kN)

This catalogue contains detailed sales information on the Lantec LW Series Winches.

With 20 sizes, a modular design and flexible input options,

LANTEC LW Series Winches suit many applications.



What makes a **LANTEC LW Series Winch** superior to the competition?

The answer is in the engineering details. Explore the benefits of LANTEC's feature rich design on the following pages.

Experience

LANTEC is a name you can trust.

For over 40 years, LANTEC has been designing and building very reliable and robust hoists, winches and planetary gear drive products for the offshore drilling and production market.

LANTEC offers winches and planetary drives for the offshore industry certified to various regulatory bodies, including API (American Petroleum Institute), ABS (American Bureau of Shipping), and DNV (Det Norsk Veritas).

Why Choose LANTEC?

LANTEC puts reliability above all else.

LANTEC saves money in the long term.

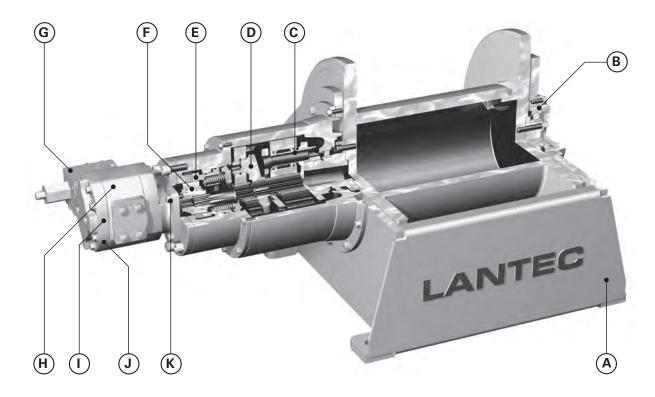
LANTEC builds a superior winch in every detail.

LANTEC provides the security and peace of mind that comes from knowing you've purchased the most cost effective and reliable winch available for your demanding application.

A Look Inside at the LW Series Features

Typical LW Series Hoist

Α	High strength fabricated steel base
В	High capacity rolling bearings for long, trouble-free life with minimum maintenance
С	Planet gear rolling bearings, replaceable independent of the gear itself for lower cost rebuilds
D	High-efficiency planetary gearing for optimum performance
E	Multi-disc Brake — spring force applied and hydraulic pressure released for positive load holding
F	Large diameter, high-capacity, sprag type, overrunning clutch for reliable engagement and long life
G	Brake Valve for controlled load movement and high energy transfer rate
Н	Standard gear motor for durability
I	Optional 2-speed gear motor for faster "light-load" speeds
J	Optional high-efficiency piston motors to match high-pressure hydraulic systems and achieve optimum winch performance
K	SAE C or D motor mounts to accept a wide variety of motors



Click here to see the many Options and Accessories that are available to meet your most demanding applications.



The LANTEC LW Series Winches are a modular construction consisting of:

Cable Drum Steel cable drum running on rolling bearings.

Cable is anchored to the drum using a convenient spiral-ferrule type cable anchor.

Winch Base High strength fabricated steel base for flexible design and maximum rigidity.

Drive Module Pre-packaged two-, three- or four-stage, high-efficiency planetary drive with hardened steel internal gears and case carburized sun and planet gears. Planet gears run on rolling bearings which are replaceable independent of the gear itself. Sun gears float to ensure balanced load distribution.

Brake Module Multi-disc, wet friction brake is spring force applied, hydraulic pressure released. Overrunning clutch is large diameter, high capacity, sprag type. Brake module is standard with SAE C or D motor mount. Optional motor mounts are available.

Hydraulic Motor Standard motor is a durable gear motor designed specifically for winching applications with improved starting torque characteristics. LW Series Winches can be fitted with other motor types including 2-speed gear motors, axial and radial piston motors, and motors for low power systems.

Brake Valve Industry's most stable and reliable counterbalance valve attached directly to the hydraulic motor.

LANTEC LW Series Winches house the planetary reduction gearing and friction brake externally to the drum barrel providing for a very versatile design with the ultimate in performance flexibility.

For applications that require drums with a large
D:d ratio (First layer pitch diameter:Cable diameter)
and physical compactness consider the LANTEC LH
Series Hoists, with the planetary reduction gearing
and friction brake housed inside the drum barrel.
A wide range of models and drum sizes are available.

LANTEC LW Series Winches are suitable for most crane and lifting applications as well as pulling and positioning. They are available with single drives or dual drives. Dual drives have two motors, two brakes, and two drive modules, for high-horsepower capability.

brake operation

When winching in, the Multi-disc Brake remains applied with the hydraulic motor driving directly into the gear reduction, through an overrunning clutch. When winching stops, the overrunning clutch locks the input shaft to the already applied Multi-disc Brake ensuring no slippage of the load. When powering out, the hydraulic motor is pressurized for the opposite rotation. This pressure is also applied to the Multi-disc Brake, releasing it fully. The Brake Valve then controls the speed of the load in response to the operator demand. When the operator intends to stop, the main control valve is moved to neutral, the pressure diminishes, the Brake Valve closes to stop the load, and the Multi-disc Brake applies as a "parking" brake to positively hold the load.

This chart shows the estimated gross cable capacity (feet) of the drum, assuming proper spooling.

Capacities shown assume a full drum, with the top layer of cable not exceeding the flange diameter. No allowance has been made for "free flange" or "free board" which may be dictated by codes or rules relevant to the application. No allowance has been made for "dead" wraps (mandatory minimum of 5 "dead" wraps of cable to be left on the drum at all times).

LANTEC is pleased to provide a layer-by-layer drum capacity chart upon request.

In addition to this list, virtually any drum size is available. Consult LANTEC for

recommendation for a costeffective solution.

> Estimated Gross Cable Capacity (ft)

> > Consult Factory

Not Available

Important Note: Some drum and cable combinations may not meet an 18:1 D:d requirement.

Cabl	e Drui	m Cap	acities	3 (In	nperi	ial Da	ata)				(GO TO	METRI	C DATA		ACK TO ABLE OF		C OFFSI ENTS	HORE
	Drum Din	nensions (in)							Non	ninal Wi	re Rope	Diamet	ter (in)					
Drum Number	Barrel Diameter	Flange Diameter	Between Flanges	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/4	2 1/2
081	8	18 18	10 16	681	436	262	185											
082 083	8	18	24	1,089 1,634	697 1,046	419 628	296 444											
084	8	24	10	1,340	779	541	428											
085 086	8 8	24 24	16 24	2,145 3,217	1,247 1,870	866 1,299	684 1,026											
101	10	24	10	1,246	778	526	407	312	234									
102 103	10 10	24 24	16 24	1,994 2,991	1,244 1,866	842 1,263	651 977	499 748	374 561									
104	10	30	14	2,932	1,877	1,255	904	733	495									
105 106	10 10	30 30	20 30	4,189 6,283	2,681 4,021	1,793 2,689	1,292 1,938	1,047 1,571	707 1,061									
121	12	26	14	0,203	1,218	825	637	488	367	268								
122	12	26	20		1,739	1,178	910	696	524	382								
123 124	12	26	30		2,609 2,064	1,767 1,382	1,364 996	1,045 806	785 547	573 516								
125	12	32	20		2,949	1,974	1,423	1,152	782	737								
126 141	12	32	30		4,423 1,347	2,961 913	2,135 704	1,728 539	1,173 406	1,106 297	278	196		1				
142	14	28	20		1,924	1,304	1,005	770	579	424	398	279						
143 144	14	28	30		2,886 2,455	1,956 1,676	1,508 1,232	1,155 1,008	869 707	636 563	596 533	419 419						
145	14	36	20		3,507	2,395	1,759	1,440	1,011	804	762	599						
146	14	36	30		5,261	3,592	2,639	2,160	1,516	1,206	1,142	898	000	100				
161 162	16 16	32 32	14 20			1,148 1,641	900 1,286	704 1,005	545 778	413 591	305 436	287 410	203 290	193 275				
163	16	32	30			2,461	1,929	1,508	1,167	886	653	615	435	413				
164 165	16 16	40 40	20 30			3,128 4,691	2,130 3,194	1,759 2,639	1,268 1,902	1,027 1,541	823 1,234	782 1,173	617 926	476 714				
166	16	40	40			6,255	4,259	3,519	2,537	2,055	1,645	1,564	1,235	952				
181 182	18 18	34 34	20 30				1,394 2,090	1,089 1,634	843 1,265	641 961	474 710	445 668	316 474	299 449	285 427	272 408		
183	18	34	40				2,787	2,178	1,686	1,282	947	890	632	598	570	545		
184	18 18	42 42	20 30				2,285	1,885	1,361	1,103	884	838	663 994	512 767	490 735	471 707		
185 186	18	42	40				3,428 4,570	2,827 3,770	2,042 2,723	1,654 2,205	1,325 1,767	1,257 1,676	1,325	1,023	980	943		
201	20	36	20				1,501	1,173	908	691	512	480	342	323	307	293	187	
202 203	20 20	36 36	30 40				2,252 3,003	1,759 2,346	1,362 1,816	1,037 1,382	768 1,023	720 960	512 683	485 646	461 614	440 586	280 374	
204	20	44	20				2,441	2,011	1,454	1,178	944	894	708	548	524	503	364	
205 206	20 20	44 44	30 40				3,661 4,881	3,016 4,021	2,182 2,909	1,767 2,356	1,417 1,889	1,340 1,787	1,062 1,415	821 1,095	785 1,047	754 1,005	545 727	
241	24	40	20				1,001	1,021	1,039	792	588	550	393	371	352	335	215	198
242 243	24 24	40 40	30 40						1,558 2,077	1,188 1,583	882 1,176	825 1,100	590 786	557 742	528 704	503 670	322 429	297 396
244	24	48	20						1,641	1,329	1,066	1,005	798	619	591	566	410	285
245 246	24 24	48 48	30 40						2,461 3,281	1,993 2,658	1,599 2,133	1,508 2,011	1,197 1,596	929 1,239	886 1,181	848 1,131	615 820	427 570
301	30	48	24						3,201	2,000	1,049	980	737	696	503	478	436	283
302	30	48 48	36 48								1,573	1,470	1,106	1,044	754	716 955	654	424 566
303 304	30	60	24								2,097 1,999	1,960 1,885	1,474 1,553	1,391 1,264	1,005 1,206	968	871 729	679
305	30 30	60 60	36 48								2,999	2,827	2,329	1,896	1,810	1,451	1,093	1,018
306 361	36	54	24								3,998	3,770	3,106 853	2,528 803	2,413 583	1,935 553	1,458 503	1,357 328
362	36	54	36										1,280	1,205	875	829	754	492
363 364	36	54	48										1,706 1,762	1,607 1,436	1,166 1,367	1,106 1,100	1,005 829	656 769
365	36	66	36										2,643	2,154	2,051	1,649	1,244	1,154
366 421	36 42	66	48										3,523	2,872 1,367	2,734 995	2,199 943	1,659 855	1,538 560
422	42	60	48											1,822	1,327	1,257	1,139	746
423 424	42	60 72	36											2,278 2,413	1,659 2,292	1,571 1,847	1,424 1,395	933 1,289
425	42	72	48											3,217	3,056	2,463	1,860	1,719
426	42	72	60											4,021	3,820	3,079	2,325	2,149
481 482	48 48	66 66	36 54													1,056 1,583	955 1,433	628 942
483	48	66	72													2,111	1,910	1,255
484 485	48 48	78 78	36 54													2,045 3,068	1,546 2,319	1,425 2,138
486	48	78	72													4,090	3,091	2,850

Cable Drum Capacities (Metric Data)

This chart shows the estimated gross cable capacity (meters) of the drum, assuming proper spooling.

Capacities shown assume a full drum, with the top layer of cable not exceeding the flange diameter. No allowance has been made for "free flange" or "free board" which may be dictated by codes or rules relevant to the application. No allowance has been made for "dead" wraps (mandatory minimum of 5 "dead" wraps of cable to be left on the drum at all times).

LANTEC is pleased to provide a layer-by-layer drum capacity chart upon request.

In addition to this list, virtually any drum size is available.

Consult LANTEC for recommendation for a costeffective solution.

> Estimated Gross Cable Capacity (meters)

> > Consult Factory

Not Available

Important Note: Some drum and cable combinations may not meet an 18:1 D:d requirement.

Cabi	C Di ui	III Oak	acides	עו) כ	IEU IC	י Dai	aj							IA	REF OF	CONT	= N I 2	
	Drum Dim	ensions (mm)							Nom	inal Wir	e Rope	Diamete	er (mm)					
Drum Number	Barrel Diameter	Flange Diameter	Between Flanges	12.7	15.8	19.0	22.2	25.4	28.6	31.7	34.9	38.1	41.3	44.4	47.6	50.8	57.1	63.5
081	204 204	458	254 407	208	133	80	56											
082 083	204	458	407	332	212	128	90											
083	204	458 611	611 254	498 408	319 237	191 165	135 130											
085	204	611	407	654	380	264	208											
086 101	204	611	611	981 380	570 237	396 160	313 124	95	71									
102	254	611	407	608	379	257	198	152	114									
103 104	254	611	611	912	569 572	385	298 276	228 223	171 151									
105	254 254	763 763	356 509	894 1,277	817	383 547	394	319	215									
106	254	763	763	1,915	1,226	820	591	479	323	00								
121 122	305 305	661 661	356 509		371 530	251 359	194 277	149 212	112 160	82 116								
123	305	661	763		795	539	416	319	239	175								
124 125	305 305	814 814	356 509		629 899	421 602	304 434	246 351	167 238	157 225								
126	305	814	763		1,348	903	651	351 527	358	337								
141 142	356 356	712 712	356 509		411 586	278 397	215	164	124 176	91 129	85 121	60 85						
143	356	712	763		880	596	306 460	235 352	265	194	121 182	128						
144	356	916	356		748	511	376	307	215	172	162	128						
145 146	356 356	916 916	509 763		1,069 1,604	730 1,095	536 804	439 658	308 462	245 368	232 348	183 274						
161	407	814	356			350	274	215	166	126	93	87	62	59				
162 163	407 407	814 814	509 763			500 750	392 588	306 460	237 356	180 270	133 199	125 187	88 133	84 126				
164	407	1,018	509			953	649	536	386	313	251	238	188	145				
165 166	407 407	1,018 1,018	763 1,018			1,430 1,907	974 1,298	804 1,073	580 773	470 626	376 501	358 477	282 376	218 290				
181	458	865	509			1,007	425 637	332	257	195	144	136	96	91	87	83		
182 183	458 458	865 865	763 1,018				637 849	498 664	386 514	293 391	216 289	204 271	144 193	137 182	130 174	124 166		
184	458	1,068	509				696	575	415	336	269	255	202	156	149	144		
185 186	458 458	1,068 1,068	763 1,018				1,045 1,393	862 1,149	622 830	504 672	404 539	383 511	303 404	234 312	224 299	215 287		
201	509	916	509				458	358	277	211	156	146	104	98	94	89	57	
202 203	509 509	916 916	763 1,018				686 915	536 715	415	316 421	234 312	219	156 208	148	141	134 179	85	
203	509	1,119	509				744	613	554 443	359	288	293 272	216	197 167	187 160	153	114 111	
205	509	1,119	763				1.116	919	665	539	432	408	324	250	239	230	166	
206 241	509 611	1,119 1,018	1,018 509				1,488	1,226	887 317	718 241	576 179	545 168	431 120	334 113	319 107	306 102	222 66	60
242	611	1,018	763						475	362	269	251	180	170	161	153	98	91
243 244	611	1,018 1,221	1,018 509						633 500	482 405	358 325	335 306	240 243	226 189	215 180	204 173	131 125	121 87
245	611	1.221	763						750	607	487	460	365	283	270	258	187	130
246	763	1,221 1,221	1,018						1,000	810	650 320	613	486 225	378 212	360 153	345 146	250	174
301 302	763	1,221	916								320 479	299 448	225 337	212 318	230	218	133 199	86 129
303 304	763 763	1,221 1,526	1,221 611								639 609	597 575	449 473	424 385	306 368	291 295	265 222	173 207
305	763	1,526	916								914	862	710	578	552	442	333	310
306	763	1,526	1,221								1,219	1,149	947	771	735	590	444	414
361 362	916 916	1,374 1,374	611 916										260 390	245 367	178 267	169 253	153 230	100 150
363	916	1,374	1,221										520	490	355	337	306	200
364 365	916 916	1,679 1,679	611 916										537 806	438 657	417 625	335 503	253 379	234 352
366	916	1,679	1,221										1,074	875	833	670	506	469
421 422	1,068 1,068	1,526 1,526	916 1,221											417 555	303 404	287 383	261 347	171 227
423	1,068	1,526	1,526											694	506	479	434	284
424 425	1,068 1,068	1,832 1,832	916 1,221											735 981	699 931	563 751	425 567	393 524
426	1,068	1,832	1,526											1,226	1,164	938	709	655
481 482	1,221 1,221	1,679 1,679	916 1,374													322 482	291 437	191 287
482	1,221	1,679	1,374													643	582	383
484	1,221	1,984	916													623	471	434
485 486	1,221 1,221	1,984 1,984	1,374 1,832													935 1,247	707 942	652 869
	,	, ,	, ,,,,,,,															

This table shows the basic winch performance data and limitations based on the standard gear ratio and motor for each model. Considering the wide variety of winch sizes, gear ratios, hydraulic motor characteristics and hydraulic system performance, the winch selection process can become complex.

LANTEC recommends allowing our Sales & Application Engineering professionals to assist in determining the winch model and options that satisfy your most demanding applications. LANTEC will be pleased to supply a detailed specification sheet specifically for your application.

Model	D	rum Siz	е	Line	Pull (Max	imum)	Line Sp	eed (Max A	Allowable)	Line Spe	ed (Max w/	Std Motor)	Bas	sic Output D	ata	Ва	sic Input Da	ata		Hydrau	ılic Supply F	Required wit	th Standard	Motor	
	Drum Number	Barrel Diameter	Flange Diameter	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	Drum Torque Maximum	Drum Speed Maximum Allowable	Drum Speed Maximum with Standard Motor	Standard Gear Ratio	Input Torque Maximum Allowable	Input Speed Maximum Allowable	Standard Motor Maximum Speed	Standard Motor Displacement	Required Pressure (Run)	Required Pressure (Start)	Flow Required at Maximum Speed	Minimum Flow Required for Smooth Performance	Recommended Minimum Flow
		in	in	lb	lb	lb	fpm	fpm	fpm	fpm	fpm	fpm	lb-in	rpm	rpm		lb-in	rpm	rpm	in³	psi(d)	psi(d)	gpm	gpm	gpm
LWS100	08X	8	24	23,200	16,100	9,000	312	558	803	268	479	690	101,500	136	117	23.49	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	12X	12	32	16,100	11,400	6,600	450	774	1,097	387	665	943	101,500	136	117	23.49	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	16X	16	40	12,300	8,800	5,200	589	990	1,391	506	851	1,196	101,500	136	117	23.49	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
LWS160	08X	8	24	35,100	24,600	14,000	207	363	518	177	311	445	155,600	89	76	36.00	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	12X	12	32	24,400	17,300	10,200	297	504	710	255	433	610	155,600	89	76	36.00	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	16X	16	40	18,700	13,400	8,000	387	645	902	332	554	775	155,600	89	76	36.00	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
LWS240	10X	10	30	41,900	29,200	16,500	169	300	431	145	258	370	230,600	59	50	54.46	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	14X	14	36	31,000	22,300	13,500	229	378	527	197	325	453	230,600	59	50	54.46	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	18X	18	42	24,600	18,000	11,400	288	456	623	248	392	535	230,600	59	50	54.46	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
LWS330	12X	12	32	52,100	37,400	22,600	136	226	315	117	194	270	338,400	40	34	79.91	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	16X	16	40	40,100	28,900	17,700	177	289	401	152	249	345	338,400	40	34	79.91	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	20X	20	44	32,400	24,200	16,000	219	331	443	188	285	381	338,400	40	34	79.91	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
LWS430	12X	12	32	64,600	46,600	28,500	110	180	249	94	154	214	424,000	32	27	100.10	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	16X	16	40	49,900	36,100	22,300	142	230	318	122	198	273	424,000	32	27	100.10	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	20X	20	44	40,400	30,300	20,200	176	264	352	151	227	302	424,000	32	27	100.10	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
LWS570	14X	14	36	73,600	53,600	33,500	96	154	212	83	133	182	561,000	24	21	132.55	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	18X	18	42	58,700	43,500	28,200	121	186	251	104	160	216	561,000	24	21	132.55	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	24X	24	48	44,900	34,700	24,400	158	225	291	136	193	250	561,000	24	21	132.55	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
LWS800	14X	14	36	104,100	76,500	48,900	68	107	145	59	92	125	807,000	17	14	190.59	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	18X	18	42	83,300	62,200	41,100	85	129	173	73	111	148	807,000	17	14	190.59	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	24X	24	48	63,900	49,700	35,500	111	156	200	95	134	172	807,000	17	14	190.59	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
LWS1200	16X	16	40	134,900	100,300	65,600	52	79	106	44	68	91	1,197,000	11	10	288.29	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	20X	20	44	111,300	84,900	58,400	62	91	119	54	78	102	1,197,000	11	10	288.29	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	30X	30	60	76,600	59,100	41,600	91	129	167	78	111	144	1,197,000	11	10	288.29	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
LWS1700	18X	18	42	175,600	134,000	92,400	40	58	75	34	50	65	1,756,000	8	7	423.03	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	24X	24	48	136,400	107,700	78,900	51	70	88	44	60	76	1,756,000	8	7	423.03	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	36X	36	66	94,000	74,800	55,500	74	100	125	64	86	108	1,756,000	8	7	423.03	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
LWS2200	20X	20	44	200,000	155,000	110,000	35	49	63	30	42	54	2,200,000	6	5	529.94	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	30X	30	60	138,600	108,300	77,900	50	70	89	43	60	77	2,200,000	6	5	529.94	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50
	42X	42	72	101,100	82,500	63,800	69	89	109	59	77	94	2,200,000	6	5	529.94	4,500	3,200	2,750	12.3	2,500	2,870	150	28	50

Performance - LWS Series Single Drive (Metric Data)

This table shows the basic winch performance data and limitations based on the standard gear ratio and motor for each model. Considering the wide variety of winch sizes, gear ratios, hydraulic motor characteristics and hydraulic system performance, the winch selection process can become complex.

LANTEC recommends allowing our Sales & Application Engineering professionals to assist in determining the winch model and options that satisfy your most demanding applications. LANTEC will be pleased to supply a detailed specification sheet specifically for your application.

Model	D	rum Siz	е	Line	Pull (Maxii	mum)	Line Sp	eed (Max A	Allowable)	Line Spe	ed (Max w/	Std Motor)	Bas	sic Output D	ata	Ва	sic Input Da	ıta		Hydraul	lic Supply F	Required wit	th Standard	Motor	
	Drum Number	Barrel Diameter	Flange Diameter	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	Drum Torque Maximum	Drum Speed Maximum Allowable	Drum Speed Maximum with Standard Motor	Standard Gear Ratio	Input Torque Maximum Allowable	Input Speed Maximum Allowable	Standard Motor Maximum Speed	Standard Motor Displacement	Required Pressure (Run)	Required Pressure (Start)	Flow Required at Maximum Speed	Minimum Flow Required for Smooth Performance	Recommended Minimum Flow
		mm	mm	kN	kN	kN	трт	трт	трт	трт	трт	трт	Nm	rpm	rpm		Nm	rpm	rpm	cm³	Bar	Bar	lpm	lpm	lpm
LWS100	08X	203	610	103	72	40	95	170	245	82	146	210	11,468	136	117	23.49	508	3,200	2,750	31	172	198	568	106	189
	12X	305	813	72	51	29	137	236	334	118	203	287	11,468	136	117	23.49	508	3,200	2,750	31	172	198	568	106	189
	16X	406	1,016	55	39	23	180	302	424	154	259	365	11,468	136	117	23.49	508	3,200	2,750	31	172	198	568	106	189
LWS160	08X	203	610	156	109	62	63	111	158	54	95	136	17,580	89	76	36	508	3,200	2,750	31	172	198	568	106	189
	12X	305	813	109	77	45	91	154	216	78	132	186	17,580	89	76	36	508	3,200	2,750	31	172	198	568	106	189
	16X	406	1,016	83	60	36	118	197	275	101	169	236	17,580	89	76	36	508	3,200	2,750	31	172	198	568	106	189
LWS240	10X	254	762	186	130	73	52	91	131	44	79	113	26,054	59	50	54.46	508	3,200	2,750	31	172	198	568	106	189
	14X	356	914	138	99	60	70	115	161	60	99	138	26,054	59	50	54.46	508	3,200	2,750	31	172	198	568	106	189
	18X	457	1,067	109	80	51	88	139	190	76	119	163	26,054	59	50	54.46	508	3,200	2,750	31	172	198	568	106	189
LWS330	12X	305	813	232	166	101	41	69	96	36	59	82	38,234	40	34	79.91	508	3,200	2,750	31	172	198	568	106	189
	16X	406	1,016	178	129	79	54	88	122	46	76	105	38,234	40	34	79.91	508	3,200	2,750	31	172	198	568	106	189
	20X	508	1,118	144	108	71	67	101	135	57	87	116	38,234	40	34	79.91	508	3,200	2,750	31	172	198	568	106	189
LWS430	12X	305	813	287	207	127	34	55	76	29	47	65	47,905	32	27	100.1	508	3,200	2,750	31	172	198	568	106	189
	16X	406	1,016	222	161	99	43	70	97	37	60	83	47,905	32	27	100.1	508	3,200	2,750	31	172	198	568	106	189
	20X	508	1,118	180	135	90	54	80	107	46	69	92	47,905	32	27	100.1	508	3,200	2,750	31	172	198	568	106	189
LWS570	14X	356	914	327	238	149	29	47	65	25	41	55	63,384	24	21	132.55	508	3,200	2,750	31	172	198	568	106	189
	18X	457	1,067	261	193	125	37	57	77	32	49	66	63,384	24	21	132.55	508	3,200	2,750	31	172	198	568	106	189
	24X	610	1,219	200	154	109	48	69	89	41	59	76	63,384	24	21	132.55	508	3,200	2,750	31	172	198	568	106	189
LWS800	14X	356	914	463	340	218	21	33	44	18	28	38	91,178	17	14	190.59	508	3,200	2,750	31	172	198	568	106	189
	18X	457	1,067	371	277	183	26	39	53	22	34	45	91,178	17	14	190.59	508	3,200	2,750	31	172	198	568	106	189
	24X	610	1,219	284	221	158	34	48	61	29	41	52	91,178	17	14	190.59	508	3,200	2,750	31	172	198	568	106	189
LWS1200	16X	406	1,016	600	446	292	16	24	32	13	21	28	135,242	11	10	288.29	508	3,200	2,750	31	172	198	568	106	189
	20X	508	1,118	495	378	260	19	28	36	16	24	31	135,242	11	10	288.29	508	3,200	2,750	31	172	198	568	106	189
	30X	762	1,524	341	263	185	28	39	51	24	34	44	135,242	11	10	288.29	508	3,200	2,750	31	172	198	568	106	189
LWS1700	18X	457	1,067	781	596	411	12	18	23	10	15	20	198,400	8	7	423.03	508	3,200	2,750	31	172	198	568	106	189
	24X	610	1,219	607	479	351	16	21	27	13	18	23	198,400	8	7	423.03	508	3,200	2,750	31	172	198	568	106	189
	36X	914	1,676	418	333	247	23	30	38	20	26	33	198,400	8	7	423.03	508	3,200	2,750	31	172	198	568	106	189
LWS2200	20X	508	1,118	890	689	489	11	15	19	9	13	16	248,565	6	5	529.94	508	3,200	2,750	31	172	198	568	106	189
	30X	762	1,524	616	482	346	15	21	27	13	18	23	248,565	6	5	529.94	508	3,200	2,750	31	172	198	568	106	189
	42X	1,067	1,829	450	367	284	21	27	33	18	23	29	248,565	6	5	529.94	508	3,200	2,750	31	172	198	568	106	189

Performance - LWD Series Dual Drive (Imperial Data)

This table shows the basic winch performance data and limitations based on the standard gear ratio and motor for each model. Considering the wide variety of winch sizes, gear ratios, hydraulic motor characteristics and hydraulic system performance, the winch selection process can become complex.

LANTEC recommends allowing our Sales & Application Engineering professionals to assist in determining the winch model and options that satisfy your most demanding applications. LANTEC will be pleased to supply a detailed specification sheet specifically for your application.

Model	D	rum Siz	е	Line	Pull (Max	imum)	Line Sp	eed (Max A	Allowable)	Line Spe	eed (Max w/	Std Motor)	Ba	sic Output D	ata	Ва	sic Input Da	ata		Hydrau	ilic Supply I	Required wit	th Standard	Motor	
	Drum Number	Barrel Diameter	Flange Diameter	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	Drum Torque Maximum	Drum Speed Maximum Allowable	Drum Speed Maximum with Standard Motor	Standard Gear Ratio	Input Torque Maximum Allowable	Input Speed Maximum Allowable	Standard Motor Maximum Speed	Standard Motor Displacement	Required Pressure (Run)	Required Pressure (Start)	Flow Required at Maximum Speed	Minimum Flow Required for Smooth Performance	Recommended Minimum Flow
		in	in	lb	lb	lb	fpm	fpm	fpm	fpm	fpm	fpm	lb-in	rpm	rpm		lb-in	rpm	rpm	in³	psi(d)	psi(d)	gpm	gpm	gpm
LWD200	10X	10	30	37,300	25,900	14,400	388	698	1,008	333	600	866	203,000	136	117	23.49	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	14X	14	36	27,500	19,700	11,800	526	878	1,230	452	755	1,057	203,000	136	117	23.49	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	18X	18	42	21,700	15,900	10,000	669	1,057	1,444	575	908	1,241	203,000	136	117	23.49	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
LWD310	12X	12	32	47,800	34,300	20,700	303	501	698	260	430	600	311,000	89	76	36.00	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	16X	16	40	36,900	26,600	16,300	393	642	890	337	551	765	311,000	89	76	36.00	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	20X	20	44	29,800	22,300	14,700	486	735	983	417	631	845	311,000	89	76	36.00	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
LWD460	12X	12	32	69,600	50,500	31,300	204	329	454	175	283	390	461,000	59	50	54.46	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	16X	16	40	53,800	39,100	24,400	263	422	581	226	363	499	461,000	59	50	54.46	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	20X	20	44	43,900	33,000	22,000	323	485	646	278	417	555	461,000	59	50	54.46	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
LWD680	14X	14	36	88,100	64,400	40,700	161	255	349	139	220	300	677,000	40	34	79.91	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	18X	18	42	70,300	52,300	34,300	202	308	414	173	265	356	677,000	40	34	79.91	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	24X	24	48	53,900	41,800	29,600	263	372	480	226	319	412	677,000	40	34	79.91	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
LWD850	14X	14	36	109,400	80,400	51,400	130	203	276	111	174	237	848,000	32	27	100.10	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	18X	18	42	87,500	65,400	43,200	162	245	328	139	211	282	848,000	32	27	100.10	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	24X	24	48	67,200	52,300	37,300	211	296	381	182	255	327	848,000	32	27	100.10	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
LWD1100	16X	16	40	127,400	94,300	61,100	111	172	232	96	148	200	1,123,000	24	21	132.55	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	20X	20	44	104,500	79,700	54,800	136	198	259	117	170	223	1,123,000	24	21	132.55	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	30X	30	60	71,900	55,500	39,100	198	281	363	170	241	312	1,123,000	24	21	132.55	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
LWD1600	18X	18	42	162,400	123,400	84,400	87	128	168	75	110	144	1,614,000	17	14	190.59	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	24X	24	48	126,000	99,100	72,100	113	155	197	97	133	169	1,614,000	17	14	190.59	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	36X	36	66	86,400	68,700	51,000	164	221	278	141	190	239	1,614,000	17	14	190.59	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
LWD2400	24X	24	48	184,100	146,500	108,800	76	102	128	65	88	110	2,393,000	11	10	288.29	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	36X	36	66	127,200	101,800	76,300	109	146	182	94	126	157	2,393,000	11	10	288.29	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	48X	48	78	96,900	80,300	63,600	143	181	219	123	156	188	2,393,000	11	10	288.29	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
LWD3500	24X	24	48	265,100	214,200	163,300	52	69	85	45	59	73	3,512,000	8	7	423.03	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	36X	36	66	184,800	149,100	113,300	75	99	123	65	86	106	3,512,000	8	7	423.03	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	48X	48	78	141,200	117,800	94,300	99	124	148	85	106	127	3,512,000	8	7	423.03	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
LWD4400	30X	30	60	270,700	215,400	160,000	51	69	87	44	60	75	4,399,000	6	5	529.94	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	42X	42	72	200,000	164,700	129,400	70	89	107	60	76	92	4,399,000	6	5	529.94	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100
	48X	48	78	176 000	147 500	118 900	79	98	117	68	85	101	4 399 nnn	6	5	529 94	4 500	3 200	2 750	12 3	2 500	2 870	300	56	100

This table shows the basic winch performance data and limitations based on the standard gear ratio and motor for each model. Considering the wide variety of winch sizes, gear ratios, hydraulic motor characteristics and hydraulic system performance, the winch selection process can become complex.

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Model	D	rum Siz	Α	Line	e Pull (Maxi	imum)	Line Sr	peed (Max A	\llowable\	Line Sne	ed (May w	/ Std Motor)	Ra	sic Output D)ata	Ro	sic Input Da	ata		Hydrau	lic Sunnly I	Required wi	th Standard	Motor	
Wodei		14111 312		Lille	e Full (IVIAXI	iiiiuiiij	Lille of	peeu (IVIax A	(iiuwabie)	Lille Spe	eu (iviax vv)	/ Stu IVIOLOI)	Ба	sic Output L		Ба	isic iliput Da	ata		nyurau	iic Supply i	required wi			
	Drum Number	Barrel Diameter	Flange Diameter	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	Drum Torque Maximum	Drum Speed Maximum Allowable	Drum Speed Maximum with Standard Motor	Standard Gear Ratio	Input Torque Maximum Allowable	Input Speed Maximum Allowable	Standard Motor Maximum Speed	Standard Motor Displacement	Required Pressure (Run)	Required Pressure (Start)	Flow Required at Maximum Speed	Minimum Flow Required for Smooth Performance	Recommended Minimum Flow
		mm	mm	kN	kN	kN	mpm	mpm	трт	mpm	трт	mpm	Nm	rpm	rpm		Nm	rpm	rpm	cm³	Bar	Bar	lpm	lpm	lpm
LWD200	10X	254	762	167	116	65	118	213	307	101	183	264	22,936	136	117	23.49	508	3,200	2,750	202	172	198	1136	212	379
	14X	356	914	123	88	53	160	268	375	138	230	322	22,936	136	117	23.49	508	3,200	2,750	202	172	198	1136	212	379
	18X	457	1,067	97	71	45	204	322	440	175	277	378	22,936	136	117	23.49	508	3,200	2,750	202	172	198	1136	212	379
LWD310	12X	305	813	214	154	93	92	153	213	79	131	183	35,138	89	76	36	508	3,200	2,750	202	172	198	1136	212	379
	16X	406	1,016	165	119	73	120	196	271	103	168	233	35,138	89	76	36	508	3,200	2,750	202	172	198	1136	212	379
	20X	508	1,118	134	100	66	148	224	300	127	192	258	35,138	89	76	36	508	3,200	2,750	202	172	198	1136	212	379
LWD460	12X	305	813	312	226	140	62	100	138	53	86	119	52,086	59	50	54.46	508	3,200	2,750	202	172	198	1136	212	379
	16X	406	1,016	241	175	109	80	129	177	69	111	152	52,086	59	50	54.46	508	3,200	2,750	202	172	198	1136	212	379
	20X	508	1,118	197	148	99	98	148	197	85	127	169	52,086	59	50	54.46	508	3,200	2,750	202	172	198	1136	212	379
LWD680	14X	356	914	395	289	182	49	78	106	42	67	91	76,490	40	34	79.91	508	3,200	2,750	202	172	198	1136	212	379
	18X	457	1,067	315	234	154	62	94	126	53	81	109	76,490	40	34	79.91	508	3,200	2,750	202	172	198	1136	212	379
	24X	610	1,219	241	187	133	80	113	146	69	97	126	76,490	40	34	79.91	508	3,200	2,750	202	172	198	1136	212	379
LWD850	14X	356	914	490	360	230	40	62	84	34	53	72	95,810	32	27	100.1	508	3,200	2,750	202	172	198	1136	212	379
	18X	457	1,067	392	293	194	49	75	100	42	64	86	95,810	32	27	100.1	508	3,200	2,750	202	172	198	1136	212	379
	24X	610	1,219	301	234	167	64	90	116	55	78	100	95,810	32	27	100.1	508	3,200	2,750	202	172	198	1136	212	379
LWD1100	16X	406	1,016	571	422	274	34	52	71	29	45	61	126,881	24	21	132.55	508	3,200	2,750	202	172	198	1136	212	379
	20X	508	1,118	468	357	246	41	60	79	36	52	68	126,881	24	21	132.55	508	3,200	2,750	202	172	198	1136	212	379
	30X	762	1,524	322	249	175	60	86	111	52	73	95	126,881	24	21	132.55	508	3,200	2,750	202	172	198	1136	212	379
LWD1600	18X	457	1,067	728	553	378	27	39	51	23	34	44	182,356	17	14	190.59	508	3,200	2,750	202	172	198	1136	212	379
	24X	610	1,219	564	444	323	34	47	60	30	41	52	182,356	17	14	190.59	508	3,200	2,750	202	172	198	1136	212	379
	36X	914	1,676	387	308	228	50	67	85	43	58	73	182,356	17	14	190.59	508	3,200	2,750	202	172	198	1136	212	379
LWD2400	24X	610	1,219	825	656	487	23	31	39	20	27	34	270,371	11	10	288.29	508	3,200	2,750	202	172	198	1136	212	379
	36X	914	1,676	570	456	342	33	45	55	29	38	48	270,371	11	10	288.29	508	3,200	2,750	202	172	198	1136	212	379
	48X	1,219	1,981	434	360	285	44	55	67	37	48	57	270,371	11	10	288.29	508	3,200	2,750	202	172	198	1136	212	379
LWD3500	24X	610	1,219	1,188	960	732	16	21	26	14	18	22	396,800	8	7	423.03	508	3,200	2,750	202	172	198	1136	212	379
	36X	914	1,676	828	668	508	23	30	37	20	26	32	396,800	8	7	423.03	508	3,200	2,750	202	172	198	1136	212	379
	48X	1,219	1,981	633	528	422	30	38	45	26	32	39	396,800	8	7	423.03	508	3,200	2,750	202	172	198	1136	212	379
LWD4400	30X	762	1,524	1,213	965	717	16	21	27	13	18	23	497,017	6	5	529.94	508	3,200	2,750	202	172	198	1136	212	379
	42X	1,067	1,829	896	738	580	21	27	33	18	23	28	497,017	6	5	529.94	508	3,200	2,750	202	172	198	1136	212	379
	48X	1,219	1,981	788	661	533	24	30	36	21	26	31	497,017	6	5	529.94	508	3,200	2,750	202	172	198	1136	212	379

Dimensional Data: LWS Series – Single Drive

To Determine Winch Dimensions

FIRST

Use the LW Series Cable Capacity Chart, which is also in this document, to select the ...

Barrel Diameter (A)

Flange Diameter (B)

(subject to the minimum per table above)

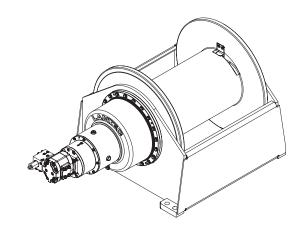
Drum Length Between Flanges (C)

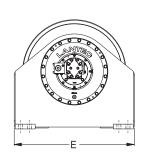
SECOND

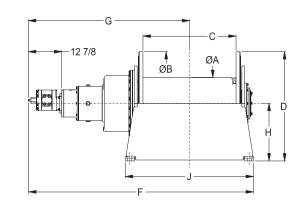
Use the formula in the table below to calculate the approximate winch dimensions.

B = Drum Flange Diameter

C = Drum Length Between Flanges







The dimensions shown are for general information. Only a detailed Certified Installation Drawing, specific to your hoist, should be used for final installation dimensions. Certified Installation Drawings are available from LANTEC upon request.

Specifications subject to change without notice and without incurring obligation. Rely only on a Certified Installation Drawing for accurate and current dimensions.

Model	Mini Flange D	mum Diameter	Ove Hei		Ove Wi		Ove Len	erall gth	Drum Cer to Moto		Drum A Mountir		Ba Len	
	E	3	[)	E		I	=	G		H	ł	J	J
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
LWS100	16	406	B + 1 7/8	B + 48	B + 5 3/8	B + 137	C + 41 1/8	C + 1045	C/2 + 34 1/2	C/2 + 876	B/2 + 1 7/8	B/2 + 48	C + 13 1/8	C + 333
LWS160	17 1/4	438	B + 1 7/8	B + 48	B + 5 3/8	B + 137	C + 41 5/8	C + 1057	C/2 + 35 1/8	C/2 + 892	B/2 + 1 7/8	B/2 + 48	C + 13 1/8	C + 333
LWS240	19 1/4	489	B + 1 7/8	B + 48	B + 5 3/8	B + 137	C+ 45	C + 1143	C/2 + 38 3/8	C/2 + 975	B/2 + 1 7/8	B/2 + 48	C + 13 1/8	C + 333
LWS330	22	559	B + 2 1/4	B + 57	B + 6 1/2	B + 165	C + 45 3/4	C + 1162	C/2 + 39 1/8	C/2 + 994	B/2 + 2 1/4	B/2 + 57	C + 13 1/8	C + 333
LWS430	22	559	B + 2 1/4	B + 57	B + 6 1/2	B + 165	C + 45 3/4	C + 1162	C/2 + 39 1/8	C/2 + 994	B/2 + 2 1/4	B/2 + 57	C + 13 1/8	C + 333
LWS570	22	559	B + 2 1/4	B + 57	B + 6 1/2	B + 165	C + 49 7/8	C + 1267	C/2 + 43 1/4	C/2 + 1099	B/2 + 2 1/4	B/2 + 57	C + 13 1/8	C + 333
LWS800	26 1/4	667	B + 2 1/4	B + 57	B + 6 1/2	B + 165	C + 51 1/8	C + 1299	C/2 + 44 3/8	C/2 + 1127	B/2 + 2 1/4	B/2 + 57	C + 13 1/2	C + 343
LWS1200	30 1/2	775	B + 2 1/4	B + 57	B + 7 1/2	B + 191	C + 56 3/8	C + 1432	C/2 + 49 3/8	C/2 + 1254	B/2 + 2 1/4	B/2 + 57	C + 14	C + 356
LWS1700	34 1/2	876	B + 2 1/4	B + 57	B + 7 1/2	B + 191	C + 57 5/8	C + 1464	C/2 + 50 5/8	C/2 + 1286	B/2 + 2 1/4	B/2 + 57	C + 14	C + 356
LWS2200	34 1/2	876	B + 2 1/4	B + 57	B + 7 1/2	B + 191	C + 60 7/8	C + 1546	C/2 + 53 3/8	C/2 + 1356	B/2 + 2 1/4	B/2 + 57	C + 15	C + 381

Dimensional Data: LWD Series - Dual Drive

To Determine Winch Dimensions

FIRST

Use the LW Series Cable Capacity Chart, which is also in this document, to select the ...

Barrel Diameter (A)

Flange Diameter (B)

(subject to the minimum per table above)

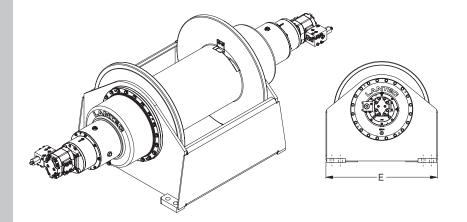
Drum Length Between Flanges (C)

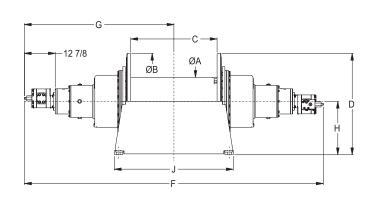
SECOND

Use the formula in the table below to calculate the approximate winch dimensions.

B = Drum Flange Diameter

C = Drum Length Between Flanges





The dimensions shown are for general information. Only a detailed Certified Installation Drawing, specific to your hoist, should be used for final installation dimensions. Certified Installation Drawings are available from LANTEC upon request.

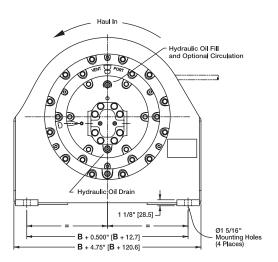
Specifications subject to change without notice and without incurring obligation. Rely only on a Certified Installation Drawing for accurate and current dimensions.

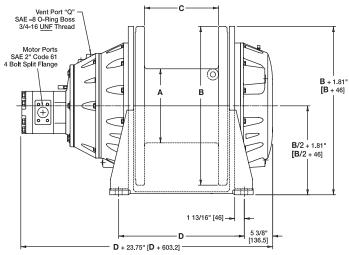
Model		mum Diameter	Ove Hei	erall ght	Ove Wi		Ove Ler	erall gth	Drum Cer to Moto		Drum A Mountir		Ba: Lenç	
	E	3	[E		ı	=	G		Н	ł	J	J
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
LWD200	16	406	B + 1 7/8	B + 48	B + 5 3/8	B + 137	C + 69	C + 1753	C/2 + 34 1/2	C/2 + 876	B/2 + 1 7/8	B/2 + 48	C + 13 1/8	C + 333
LWD310	17 1/4	438	B + 1 7/8	B + 48	B + 5 3/8	B + 137	C + 70 1/4	C + 1784	C/2 + 35 1/8	C/2 + 892	B/2 + 1 7/8	B/2 + 48	C + 13 1/8	C + 333
LWD460	19 1/4	489	B + 1 7/8	B + 48	B + 5 3/8	B + 137	C + 76 3/4	C + 1949	C/2 + 38 3/8	C/2 + 975	B/2 + 1 7/8	B/2 + 48	C + 13 1/8	C + 333
LWD680	22	559	B + 2 1/4	B + 57	B + 6 1/2	B + 165	C + 78 1/4	C + 1988	C/2 + 39 1/8	C/2 + 994	B/2 + 2 1/4	B/2 + 57	C + 13 1/8	C + 333
LWD850	22	559	B + 2 1/4	B + 57	B + 6 1/2	B + 165	C + 78 1/4	C + 1988	C/2 + 39 1/8	C/2 + 994	B/2 + 2 1/4	B/2 + 57	C + 13 1/8	C + 333
LWD1100	22	559	B + 2 1/4	B + 57	B + 6 1/2	B + 165	C+ 86 1/2	C + 2197	C/2 + 43 1/4	C/2 + 1099	B/2 + 2 1/4	B/2 + 57	C + 13 1/8	C + 333
LWD1600	26 1/4	667	B + 2 1/4	B + 57	B + 6 1/2	B + 165	C+ 88 3/4	C + 2254	C/2 + 44 3/8	C/2 + 1127	B/2 + 2 1/4	B/2 + 57	C + 13 1/2	C + 343
LWD2400	30 1/2	775	B + 2 1/4	B + 57	B + 7 1/2	B + 191	C+ 98 3/4	C + 2508	C/2 + 49 3/8	C/2 + 1254	B/2 + 2 1/4	B/2 + 57	C + 14	C + 356
LWD3500	34 1/2	876	B + 2 1/4	B + 57	B + 7 1/2	B + 191	C + 101 1/4	C + 2572	C/2 + 50 5/8	C/2 + 1286	B/2 + 2 1/4	B/2 + 57	C + 14	C + 356
LWD4400	34 1/2	876	B + 2 1/4	B + 57	B + 7 1/2	B + 191	C + 106 3/4	C + 2711	C/2 + 53 3/8	C/2 + 1356	B/2 + 2 1/4	B/2 + 57	C + 15	C + 381



Line pull of 45,000 lbs. (201 kN)

The LANTEC® Model 200 Hydraulic Planetary Winch includes a hydraulic gear motor, spring-applied hydraulic-released multidisc brake with overrunning clutch and two planetary gear reductions. The Model 200 is a power in/power out winch with equal speed in both directions. LANTEC specializes in the custom designs, please inquire about special cable drums, hydraulic motors, bandbrakes, freespool and ratchet and pawl options to meet your exact application needs.





A CAUTION:

The last 5 wraps of cable must be left on the drum to assist the cable anchor in holding the load.

Danie				Dimer	nsions						Cable	Capa	city Full	Drum – 1	No Allowar	nce for Fr	ee-Flange	
Drum No.	A – Ba	arrel Dia.	B - Fla	ange Dia.	C -	Length	D - Bol	t Centers	1/	/2"	5/	8"	3/	4"	7/	8"	1	"
140.	in		in	mm	in		in	mm			ft		ft		ft		ft	m
101	8	203	24	610	10	254	19.50	495.3	1272	388	730	222	485	148	375	114	300	91
102	8	203	24	610	16	406	25.50	647.7	2074	632	1130	357	810	247	635	194	500	152
103	8	203	24	610	24	610	33.50	850.9	3147	959	1805	550	1256	383	975	297	770	235
104	10	254	24	610	10	254	19.50	495.3	1184	360	725	221	510	155	365	111	285	87
105	10	254	24	610	16	406	25.50	647.7	1928	588	1150	350	815	248	585	178	455	139
106	10	254	24	610	24	610	33.50	850.9	2926	892	1730	527	1225	373	880	268	680	207
121	14	356	30	762	14	356	23.50	596.9	2485	757	1418	432	958	292	772	235	600	183
122	14	356	30	762	20	508	29.50	749.3	3590	1094	2094	638	4106	428	1082	330	874	266
123	14	356	30	762	30	762	39.50	1003.3	5434	1656	3172	967	2194	669	1700	518	1335	407

Other drum sizes available. For optimum performance in your operating conditions, please consult with the TWG/LANTEC Engineering Staff for accurate evaluation of all options and specifications.



	Drum		Line	Pull	Line S	peed
	Number		lb.	kN	f.p.m.	m/m
□	101-103	Bare	45,175	201	70	21
25 (mn 1/m) / 25		Mean	24,160	107	132	40
M § *		Full	17,415	77	182	55
≝ ;;	104-106	Bare	36,250	161	88	27
∏ 818 jp. B.P.M.		Mean	23,260	103	137	42
194,8		Full	17,125	76	186	57
	121-123	Bare	26,640	118	120	37
		Mean	17,610	78	180	55
2 4		Full	13,730	61	232	71

↽	· 🚡	101-103	Bare	33,880	151	94	29
'n	(16,508 Nm) / 67		Mean	18,120	81	175	53
N	M6,50		Full	13,060	58	244	74
	. <u>≓</u> ₩	104-106	Bare	27,185	121	117	36
П	114 lb. R.P.M.		Mean	17,445	78	182	55
ī	e 146,114 Drum R.P.I		Full	12,845	57	248	76
Ī	Tordine	121-123	Bare	19,980	89	160	49
<u>≥</u>			Mean	13,210	59	241	73
4	Ē		Full	10,300	46	310	94

UI ÷	101-103	Bare	26,615	118	135	41
Ö		Mean	12,630	56	252	77
202 11,506 Nm) / 80		Full	9,100	40	350	107
ii.	104-106	Bare	18,945	84	168	51
837 lb. R.P.M.		Mean	12,160	54	262	80
101,8		Full	8,950	40	356	108
	121-123	Bare	13,925	62	228	69
		Mean	9,205	41	346	105
ua V		Full	7,178	32	444	135

Performance based on a hydraulic volume of 90 gpm [340 I/min] at 2800 psi [193 bar] (2500 psi [172 bar] running)

LANTEC is part of TWG, a global leader in standard and engineered winch, gearbox and electronic monitoring systems.

LANTEC

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MODEL 541

	Number		lb.	kN	f.p.m.	m/m
	107-109	Bare	101,032	449	30	9
		Mean	59,510	265	51	15
		Full	44,785	199	68	20
	121-123	Bare	73,634	328	42	13
		Mean	48,813	217	63	19
		Full	40,600	181	75	23
	131-133	Bare	57,925	258	53	16
		Mean	39,138	174	78	24
		Full	30,810	137	100	30
	141-143	Bare	57,925	258	53	16
		Mean	35,320	157	86	26
		Full	26,330	117	116	35
	151-153	Bare	43,880	195	70	21
		Mean	32,180	143	95	29
		Full	26,330	117	116	35
_	,					

32	107-109	Bare	75,775	337	40	12
1/2		Mean	44,635	199	68	20
Z.		Full	33,590	149	91	28
떝	121-123	Bare	55,225	246	55	17
4		Mean	36,610	163	84	26
ì		Full	30,450	135	100	30
=	131-133	Bare	43,445	193	70	21
46,0		Mean	29,355	131	104	32
.ei		Full	23,110	103	132	40
=	141-143	Bare	43,445	193	70	21
82,		Mean	26,490	118	115	35
8		Full	19,750	88	155	47
를	151-153	Bare	32,910	146	93	28
Drum Torque 407,290 lb.in. (46,018 Nm) / Drum R.P.M. 14.35		Mean	24,135	107	126	38
ā		Full	19,750	88	155	47

	20.59	107-109	Bare	52,808	235	58	18
			Mean	31,106	138	98	30
J	M.		Full	23,410	104	130	40
4	Nm) / Drum R.P.M.	121-123	Bare	38,485	171	80	24
Ō	1		Mean	25,515	113	120	37
4,	Ē		Full	21,220	94	145	44
	20	131-133	Bare	30,277	135	101	31
П	(32,070		Mean	20,460	91	150	46
⊣	ij.		Full	16,105	72	190	58
	283,846 lb.in.	141-143	Bare	30,265	135	101	31
n	3,84		Mean	18,450	82	166	50
-	e 28		Full	13,760	61	222	68
⋝	Torque	151-153	Bare	22,940	102	133	40
	Drum T		Mean	16,820	75	182	55
	ā		Full	13,760	61	222	68

Performance based on a hydraulic volume of 90 gpm [340 I/min] at 2800 psi [193 bar] (2500 psi [172 bar] running)

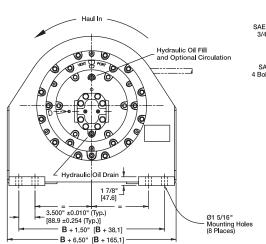


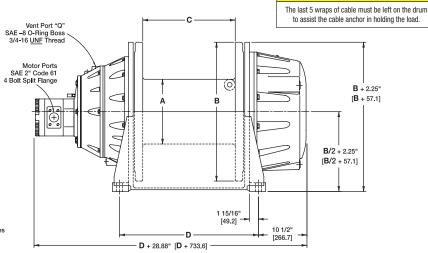
Model 540 Hydraulic Planetary Winch

A CAUTION:

Line pull of 101,000 lbs. (449 kN)

The LANTEC® Model 540 Hydraulic Planetary Winch includes a hydraulic gear motor, spring-applied hydraulic-released multidisc brake with overrunning clutch and three planetary gear reductions. The Model 540 is a power in/power out winch with equal speed in both directions. LANTEC specializes in the custom designs, please inquire about special cable drums, hydraulic motors, bandbrakes, freespool and ratchet and pawl options to meet your exact application needs.





		Dimensions								Cable Capacity Full Drum – No Allowance for Free-Flange						
Drum	A – Ba	rrel Dia.	B – Fla	ange Dia.	C -	Length	D – Bol	t Centers	3/	4"	7/	8"	1		1 1	/8"
	in		in	mm			in	mm			ft		ft		ft	
107	10	254	26	660	10	254	19.75	501.7	548	167	420	128	340	104	262	80
108	10	254	26	660	16	406	25.75	654.1	916	279	714	217	564	172	425	130
109	10	254	26	660	24	610	33.75	857.3	1420	433	1094	333	864	263	655	200
121	14	355	30	762	14	355	23.75	603.3	958	292	768	234	600	183	440	134
122	14	355	30	762	20	508	29.75	755.7	1406	428	1082	330	874	266	641	195
123	14	355	30	762	30	762	39.75	1009.7	2194	669	1700	518	1335	407	1000	305
131	18	457	36	914	14	355	23.75	603.3	1440	439	1050	320	826	252	621	189
132	18	457	36	914	20	508	29.75	755.7	2120	646	1470	448	1206	367	904	275
133	18	457	36	914	30	762	39.75	1009.7	3306	1008	2308	703	1842	561	1412	430
141	18	457	42	1067	20	508	30.25	768.4	3140	957	2100	640	1788	545	1224	373
142	18	457	42	1067	30	762	40.25	1022.4	4900	1494	3300	1005	2730	832	1914	583
143	18	457	42	1067	40	1016	50.25	1276.4	6530	1990	4400	1340	3674	1120	2600	792
151	24	610	42	1067	20	508	29.75	755.7	2590	789	1800	549	1476	450	1105	337
152	24	610	42	1067	30	762	39.75	1009.7	4040	1231	2826	861	2250	686	1728	527
153	24	610	42	1067	40	1016	49.75	1263.7	5388	1642	3771	1150	3030	924	2352	717

Other drum sizes available. For optimum performance in your operating conditions, please consult with the TWG/LANTEC Engineering Staff for accurate evaluation of all options and specifications.

LANTEC®

	Drum No.		Line		Line S	peed
			lb.	kN	f.p.m.	m/m
	111-113	Bare	136,000	605	22	7
듄		Mean	70,000	311	44	13
		Full	52,700	234	58	18
	121-123	Bare	99,750	444	31	9
LO 🖥		Mean	65,000	289	47	14
E E		Full	51,600	230	60	18
MODEL 750 Drum Torque 748,105 lb.in. (84,525 Mm) / Drum 8.P.M. 7.81	131-133	Bare	78,750	350	39	12
_ Z		Mean	55,415	246	55	16
B		Full	42,750	190	72	22
MODEL Torque 748,105 lb.in. (84,525)	141-143	Bare	78,750	350	39	12
		Mean	48,264	215	63	19
- E		Full	36,500	162	84	25
	151-153	Bare	59,850	266	51	15
		Mean	45,340	202	67	20
		Full	36,500	162	84	25
	161-163	Bare	59,850	266	51	15
	101 100	Mean	40,440	180	76	23
_		Full	31,835	142	96	29
	444.440					
9	111-113	Bare	102,000	454	30	9
<u></u>		Mean	52,500	234	58	17
— 's		Full	39,500	176	77	23
	121-123	Bare	74,810	333	41	12
Ш) 📱		Mean	48,790	217	62	19
751 Nm) / Drum B.P.M. 10.42		Full	38,700	172	79	24
- 1 7 🙀	131-133	Bare	59,060	263	52	16
		Mean	41,560	185	74	22
MODE E 1949		Full	32,060	143	95	29
Ш	141-143	Bare	59,060	263	52	16
		Mean	36,200	161	84	25
∟ ≅		Full	27,370	122	112	34
	151-153	Bare	44,890	200	68	20
		Mean	34,000	151	90	27
5 #		Full	27,370	122	112	34
4 •	161-163	Bare	44,890	200	68	20
		Mean	30,330	135	101	30
_		Full	23,875	106	128	39
	111 110	Dana	71 100	040	44	40
LO .	111-113	Bare	71,100	316		13
4.9		Mean	36,600	163	84	25
Ul ≥	101 100	Full	28,000	125	110	33
10 =	121-123	Bare	52,140	232	58	17
LD <u>₹</u>		Mean	34,000	151	90	27
750 Nm) / Drum R.P.M. 14.95	404 400	Full	26,970	120	114	34
₽	131-133	Bare	41,164	183	74	22
1 4 2		Mean	28,968	129	106	32
		Full	22,346	99	137	41
n. (44,18	141-143	Bare	41,164	183	74	22
		Mean	25,230	112	121	36
- E		Full	19,075	85	160	48
	151-153	Bare	31,285	139	98	30
		Mean	23,700	105	129	39
5 §		Full	19,075	85	160	48
	161-163	Bare	31,285	139	98	30
MODEL 184,184		Mean	21,140	94	145	44
		Full	16,640	74	184	56

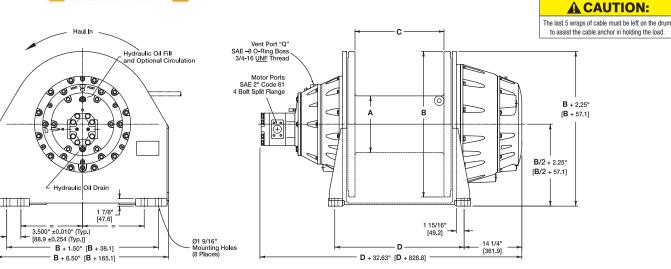
Performance based on a hydraulic volume of 90 gpm [340 I/min] at 2800 psi [193 bar] (2500 psi [172 bar] running)

LANTEC

Model 750 Hydraulic Planetary Winch

Line pull of 136,000 lbs. (605 kN)

The LANTEC Model 750 Hydraulic Planetary Winch includes a hydraulic gear motor, spring-applied hydraulic-released multidisc brake with overrunning clutch and three planetary gear reductions. The Model 750 is a power in/power out winch with equal speed in both directions. LANTEC specializes in the custom designs, please inquire about special cable drums, hydraulic motors, bandbrakes, freespool and ratchet and pawl options to meet your exact application needs.



Drum				Dimen	sions					Cable Capacity Full Drum – No Allowance for					nce for Fr	Free-Flange		
No.	A – Ba	rrel Dia.	B - Fla	ange Dia.	C -	Length	D - Bol	t Centers	7/	8"	1		1 1	/8"	11	/4"	1 3	3/8"
140.	in		in	mm			in	mm			ft		ft		ft		ft	
111	10	254	30	762	14	356	24.25	616.0	848	258	678	207	438	134	418	127	335	102
112	10	254	30	762	20	508	30.25	768.4	1186	261	994	303	636	194	625	190	467	142
113	10	254	30	762	30	762	40.25	1022.4	1860	576	1518	462	994	303	964	294	716	218
121	14	356	30	762	14	356	23.75	603.3	760	234	600	183	440	134	338	103	246	75
122	14	356	30	762	20	508	29.75	755.7	1082	330	874	266	641	195	505	154	355	108
123	14	356	30	762	30	762	39.75	1009.7	1700	518	1335	407	1000	305	778	237	546	166
131	18	457	36	914	14	356	23.75	603.3	1050	320	826	252	621	189	490	149	372	113
132	18	457	36	914	20	508	29.75	755.7	1470	448	1206	367	904	275	735	224	536	163
133	18	457	36	914	30	762	39.75	1009.7	2308	703	1842	561	1412	430	1124	342	824	251
141	18	457	42	1067	20	508	30.25	768.4	2100	640	1788	545	1224	375	1033	315	790	240
142	18	457	42	1067	30	762	40.25	1022.4	3300	1004	2730	832	1914	583	1580	482	1214	370
143	18	457	42	1067	40	1016	50.25	1276.4	4400	1340	3674	1120	2600	792	2135	650	1698	518
151	24	610	42	1067	20	508	29.75	755.7	1800	548	1476	450	1105	337	900	274	658	200
152	24	610	42	1067	30	762	39.75	1009.7	2826	861	2250	686	1728	527	1380	420	842	256
153	24	610	42	1067	40	1016	49.75	1263.7	3770	1150	3030	924	2352	717	1860	566	1425	434
161	24	610	48	1219	20	508	30.25	768.4	2526	770	2148	655	1475	450	1245	380	952	290
162	24	610	48	1219	30	762	40.25	1022.4	3970	1210	3275	998	2306	703	1908	580	1466	447
163	24	610	48	1219	40	1016	50.25	1276.4	5300	1614	4410	1344	3140	957	2575	785	2060	628

Other drum sizes available. For optimum performance in your operating conditions, please consult with the TWG/LANTEC Engineering Staff for accurate evaluation of all options and specifications.

Ø

3/4-10 UNC Thread

5 Holes Equally Spaced on a 12 7/8 [327] PCD

LANTEC

Brakes and Clutches

Model 100 MB Brake

Technical Data

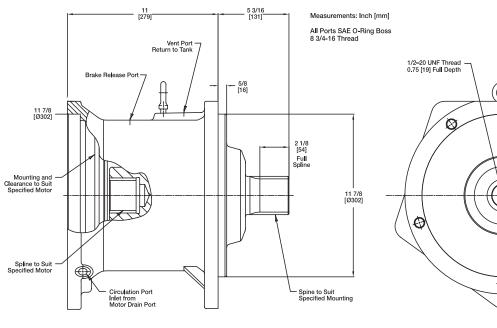
Features At-A-Glance:

- Brake design features:
 - ✓ Completely-sealed
 - ✓ Spring-applied
 - ✓ Hydraulically-released
 - ✓ Oil-immersed
 - ✓ Multidisc

- Mounts directly on low-speed, high-torque hydraulic motors; output shaft and mounting are identical to the output of the hydraulic motor
- Output shaft accommodates overhung loads
- Operation: Automatic or manual
- · Static and dynamic ratings
- No service adjustments required

Brake Specifications								
Static Braking Torque	5,000 lb. ft.	678 daNm						
Dynamic Braking Torque	Contact	Factory						
Min. Pressure/Total Release	250 psi	18 bar						
Max. Pressure Allowable	1000 psi	69 bar						
Brake Piston Displacement	12 cu. in.	197 cc						
Max. Operating Speed	2000 rpm	2000 rpm						
Max. Operating Temperature	175°F	80°C						
WK ²	250 lb mass in²	.073 kg m²						





Other brake packages are available.

For optimum performance in your operating conditions, please consult with the TWG/LANTEC Engineering Staff for accurate evaluation of all options and specifications.

Certified installation drawings are available on request.

LANTEC[®] | Brakes and Clutches

Model 200 MB Brake

Technical Data

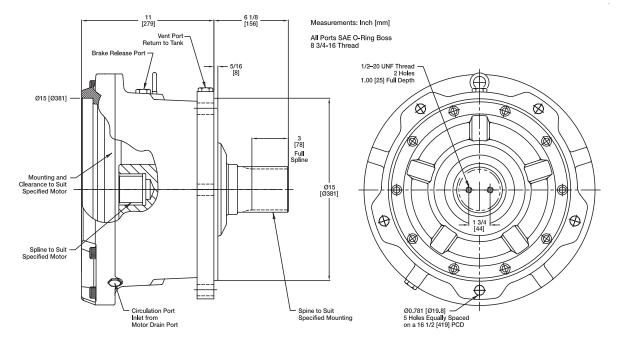
Features At-A-Glance:

- Brake design features:
 - ✓ Completely-sealed
 - ✓ Spring-applied
 - ✓ Hydraulically-released
 - ✓ Oil-immersed
 - ✓ Multidisc

- Mounts directly on low-speed, high-torque hydraulic motors; output shaft and mounting are identical to the output of the hydraulic motor
- Output shaft accommodates overhung loads
- Operation: Automatic or manual
- · Static and dynamic ratings
- No service adjustments required

Brake Specifications									
Static Braking Torque	11,000 lb. ft.	1495 daNm							
Dynamic Braking Torque	Contact	Factory							
Min. Pressure/Total Release	310 psi	21.4 bar							
Max. Pressure Allowable	1000 psi	69 bar							
Brake Piston Displacement	15 cu. in.	246 cc							
Max. Operating Speed	2000 rpm	2000 rpm							
Max. Operating Temperature	175°F	80°C							
WK ²	837 lb mass in²	.245 kg m ²							





Other brake packages are available.

For optimum performance in your operating conditions, please consult with the TWG/LANTEC Engineering Staff for accurate evaluation of all options and specifications.

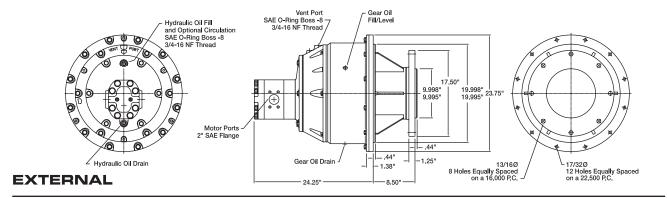
Certified installation drawings are available on request.

LANTEC® Gear Reducers

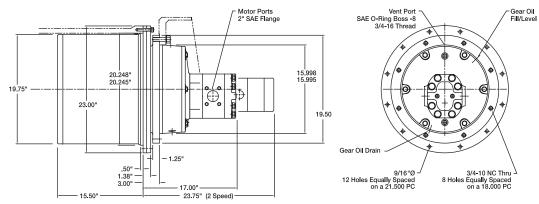
Model D200 Hydraulic Planetary Drive

Maximum Torque of 195,000 lb.in. (22,000 Nm)

LANTEC Hydraulic Planetary Drives include a hydraulic motor, a spring-applied hydraulic-released multidisc brake and two planetary reductions driving the output flange. This rugged, compact, completely sealed drive package can be mounted horizontally or vertically. LANTEC Hydraulic Planetary Drives are designed and manufactured to provide years of reliable, trouble-free operation with only routine maintenance.



INTERNAL



Model Number	Output	Torque	Output Speed	Overall Reduction	
Model Mullipel.	lb.in.	Nm	R.P.M.	Overall neduction	
D200	194,818	22,011	42.2	48:1	
D201	146,114	16,508	56.3	36:1	
D202	101,837	11,506	80.7	25:1	

Performance based on a hydraulic volume of 90 gpm [340 I/min] at 2800 psi [193 bar] (2500 psi [172 bar] running)



Options:

Hvdraulic Motors:

- The standard motor is available with various gear widths providing a wide range of torque and speed combinations.
- · Gear, vane or piston motors are available to meet performance requirements and match existing hydraulic systems.
- Drives can be supplied less hydraulic motor but with S.A.E. B. C. or D motor mount.

Brake:

- Effective in one rotation or with brake effective both rotations
- Operation: Automatic, manual or both
- · Static and dynamic rating
- No brake

Gear Reductions:

· Reductions other than those shown below

Output:

- Flange
- Shaft: Splined, keved or tapered

Speeds:

Two-speed

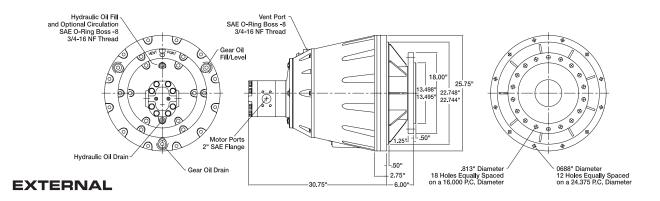
Other options are available. For optimum performance in your operating conditions, please consult with the TWG/LANTEC Engineering Staff for accurate evaluation of all options and specifications.

LANTEC® Gear Reducers

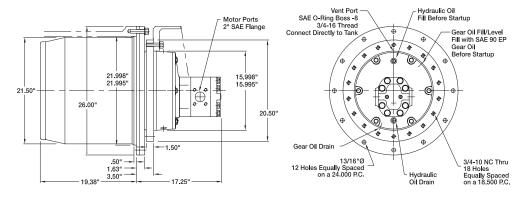
Model D540 Hydraulic Planetary Drive

Maximum Torque of 539,000 lb.in. (60,900 Nm)

LANTEC® Hydraulic Planetary Drives include a hydraulic motor, a spring-applied hydraulic-released multidisc brake and three planetary reductions driving the output flange. This rugged, compact, completely sealed drive package can be mounted horizontally or vertically. LANTEC Hydraulic Planetary Drives are designed and manufactured to provide years of reliable, trouble-free operation with only routine maintenance.



INTERNAL



Model Number	Output	Torque	Output Speed	Overall Reduction	
Model Mullipel.	lb.in.	Nm	R.P.M.	Overall Reduction	
D540	539,142	60,915	14.5	138.28:1	
D541	403,400	45,578	19.2	103.46:1	
D542	279,946	31,629	27.5	71.80:1	

Performance based on a hydraulic volume of 120 gpm [454 l/min] at 2800 psi [193 bar] [2500 psi [172 bar] running]



Options:

Hvdraulic Motors:

- The standard motor is available with various gear widths providing a wide range of torque and speed combinations.
- · Gear, vane or piston motors are available to meet performance requirements and match existing hydraulic systems.
- Drives can be supplied less hydraulic motor but with S.A.E. B. C. or D motor mount.

Brake:

- Effective in one rotation or with brake effective both rotations
- Operation: Automatic, manual or both
- · Static and dynamic rating
- No brake

Gear Reductions:

· Reductions other than those shown below

Output:

- Flange
- · Shaft: Splined, keyed or tapered

Speeds:

Two-speed

Other options are available. For optimum performance in your operating conditions, please consult with the TWG/LANTEC Engineering Staff for accurate evaluation of all options and specifications.