

A MODULAR LINE OF HYDRAULIC HOISTS

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

With more than 10 basic models, a modular design and flexible input options,

LANTEC LH Series Hoists suit many applications.

modul

Experience

LANTEC.... Recognized
worldwide for providing
highly dependable hoists
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 hoist reliability,
versatility and quality.

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

LANTEC Winch & Gear is a part of TWG, a global leader in standard and engineered winch, gearbox and load information systems.

Reliability

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



construction

The LANTEC LH Series Hoists are a compact modular construction consisting of:

Cable Drum Steel cable drum running on rolling bearings. Drum seals run on corrosion resistant seats. Cable is anchored to the drum using the industry accepted method of a wedge and a tapered pocket. Drum includes a "No-Spill" oil change feature for clean and fast oil changes without special tools.

Hoist Base High-strength nodular iron base components designed for maximum rigidity and easy assembly.

Drive Module Pre-packaged two- or three-stage, high-efficiency planetary drive with hardened 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 hoisting applications with improved starting torque characteristics. LH Series Hoists 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 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 suitable for 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. Please see separate brochure.

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.

Typical LH Series Hoist

Features

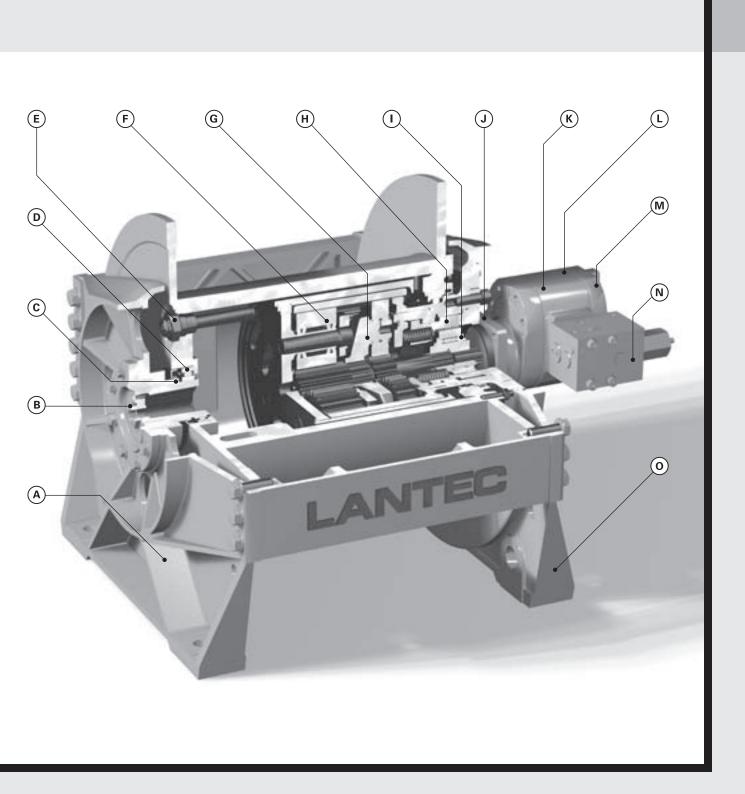
Α	High-strength nodular iron base components
В	Oil level sight gauge for reliable and convenient fluid level monitoring
С	Corrosion resistant seal running surfaces for marine duty dependability
D	High-capacity rolling bearings for long, trouble-free life with minimum maintenance
E	Built-in "No-Spill" 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
1	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
К	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

Many Options and Accessories are available to meet your most

demanding applications. Refer to page 4.

Features

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Options & Accessories

LANTEC LH Series Hoists 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 to match your cable storage requirements
- Additional 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 with a hydraulic motor that matches the customer's hydraulic system to provide optimum performance. Hoists 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. Ratchet and pawl kits for field installation are also available.

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 friction brake acting directly on the drum.

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 hoist drum speed and/or position.

Coatings LANTEC provides Marine Epoxy and other special coatings.

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.

 $\textcircled{\textbf{$0$}} \ \, \text{LeBus and the Grooved Sleeve design are Registered Trademarks of LeBus International Inc.}$

Model

Cable Drum Capacities

Drum Dimensions (in)

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.

Nominal Wire Rope Diameter (in)

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

	wodei	Drum Dimensions (III)			Nominal Wire Rope Diameter (III)										
		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							
\bigcirc	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					
300	LHS330	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				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			
<u>a</u> 0	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			
C	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					
UN	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			
0	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					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	

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.

performance

Performance

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.

П	Model		Drum Siz	е		Line Pull (Maximum)			ine Speeximum Allowa		Line Speed (Maximum with Standard Motor)			
ı		Drum Number	Barrel Diameter	Flange Diameter	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	1st Layer	Mid Layer	Top Layer	
Ŧ			in	in	lb	lb	lb	fpm	fpm	fpm	fpm	fpm	fpm	
н	Single [
	LHS100	01 & 02	13.00	23.00	15,000	12,200	9,400	481	624	767	414	537	659	
	LHS110	01 & 02	11.50	20.00	16,700	13,900	11,000	432	544	655	372	468	563	
	LHS160	01 & 02	16.00	27.50	18,700	15,500	12,300	387	489	591	332	420	507	
	LHS170	01 & 02	15.00	23.00	19,800	17,600	15,400	367	419	471	315	360	405	
	LHS240	01 & 02	18.00	33.00	24,100	19,400	14,700	294	388	482	253	334	414	
ı	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	
ı	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	
	Dual Dr	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	
	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	
1	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	
	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	
	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	

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

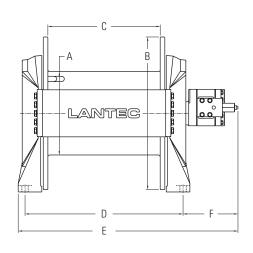
Basi	c Output	Data	Bas	sic Input D	ata	Hydraulic Supply Required with Standard Motor						
Drum Torque Maximum	Drum Speed Maximum Allowable	Drum Speed Maximum with Standard Motor	Standard Gear Ratio	Input Torque Maximum Allowable	Input Speed Maximum Allowable	Standard Motor Maximum Speed	Standard Motor Displacement	Pressure Required (Run)	Pressure Required (Start)	Flow Required at Maximum Speed	Minimum Flow Required for Smooth Performance	Recommended Minimum Flow
lb-in	rpm	rpm		lb-in	rpm	rpm	in ³	psi(d)	psi(d)	gpm	gpm	gpm
,												
101,500	136	117	23.49	4,500	3,200	2,750	12.30	2,500	2,870	150	28	50
101,500	136	117	23.49	4,500	3,200	2,750	12.30	2,500	2,870	150	28	50
155,600	89	76	36.00	4,500	3,200	2,750	12.30	2,500	2,870	150	28	50
155,600	89	76	36.00	4,500	3,200	2,750	12.30	2,500	2,870	150	28	50
226,400	60	51	53.46	4,500	3,200	2,750	12.30	2,500	2,870	150	28	50
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
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
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
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
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
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
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	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

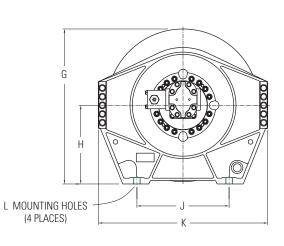
Dimensional DataLHS Series — Single Drive

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 competitive brands.

Model	Drum Number	Barrel Diameter	Flange Diameter	Between Flanges	Mounting Holes	Length	Mounting Offest	Height	Height to Center	Mounting Holes	Width	Mounting Hole Diameter
		А	В	С	D	Е	F	G	Н	J	K	L
LHS Se	ries – Sin	gle Drive					All d	imensions are i	in inches.			
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
L113330	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
1110420	01	20.00	22.00	22.00	24.20	47.70	11.00	22.50	17.00	20.00	27.00	1.20
LHS430	01 02	20.00 20.00	33.00 33.00	23.88 38.18	34.29 48.54	47.72 62.00	11.93 11.93	33.50 33.50	17.00 17.00	20.00	37.00 37.00	1.38 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
	03 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
		22.00	00.00	00.00	00.11	70.07	11.00	00.00	17.00	20.00	07.00	1.00





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

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

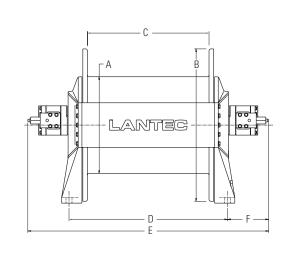
Dimensional Data LHD Series — Dual Drive

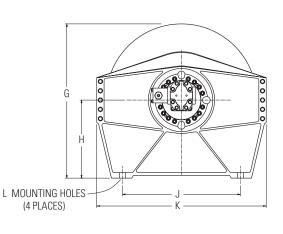
The dimensions shown are for general information. Only a detailed Certified Installation Drawing, specific to your hoist, should be used for final installation dimensions. Certified Installation Drawings are available from LANTEC upon request.

Model	Drum Number	Barrel Diameter	Flange Diameter	Between Flanges	Mounting Holes	Length	Mounting Offest	Height	Height to Center			Mounting Hole Diameter
		Α	В	С	D	E	F	G	н	J	K	L
LHS Series – Dual Drive All dimensions are in inches.												
LHS200	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
LHS310	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
LHS450	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
LHS670	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	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
LHS840	01 02 03 04 05	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

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Diagram LHS Series

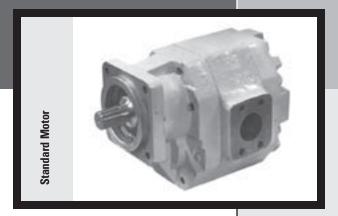




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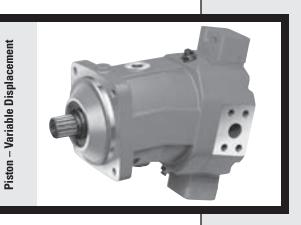
Dimensions E and F are based on the Standard Motor. Length will vary with optional motors.

Motor Selection





Piston – Fixed Displacement



LANTEC LH Series Hoists utilize a gear motor designed for performance characteristics specifically suited to hoist applications.

This is a time-proven and very durable hydraulic motor suited to most applications.

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

LANTEC can supply the hoist 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, we also offer the LH Series Hoist shipped from the factory without a motor. This allows the customer to supply the Motor and Brake Valve that best suits the application.

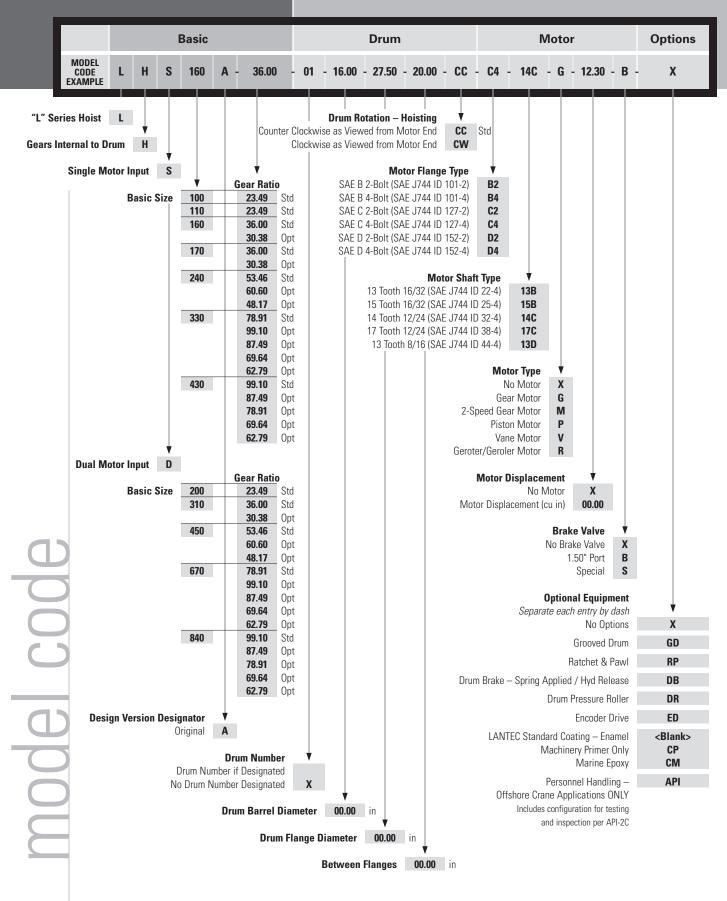
LANTEC Sales & Application Engineering professionals are pleased to assist customers with appropriate motor selection.

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.



Parts Service Installation

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

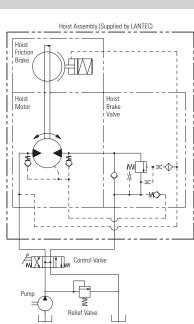
LANTEC provides in-factory service of your hoist including visual inspection, magnetic particle inspection, re-certification, rebuild, testing and re-coating.

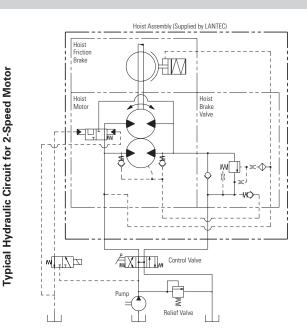
Factory Authorized Service Centers are conveniently located with factory-trained service personnel to perform troubleshooting, inspection and service.

LANTEC LH Series Hoists must be installed in strict accordance with our written installation instructions. The hoist must be connected to a suitable hydraulic power supply. Caution: these circuits are for illustration purposes only and may not contain all components required for full system function.

ıstallation

Typical Hydraulic Circuit for Standard Motor





Application Data Sheet

Maximum Line Pull Required	What is the maximum line pull required at the drum for the application? This should 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
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	1 1 1 1 1	Check O
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 O
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.					
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. A ratio of 18:1 is typical for crane applications.					in mm
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 optimized selection of gear ratio and motor size.				-	lpm
Preferred Hydraulic Motor Type	To be indicated if there is a preference.		_	Gear Piston	 	Check O
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 Type	Describe General Application					



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. For assistance in determining a hoist for your application, please copy and fill out this Application Data Sheet and fax to LANTEC at 604-530-2889.

LANTEC Electric Winches

Many of our winch models readily accept electric motors. Today's modern electric drives are well suited for use on winches. If your application requires electric drives, let LANTEC show you our economical solutions.

successful projects assures you of high quality and dependability.

Please contact LANTEC for more information.

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LANTEC | Custom Winches



LANTEC has been designing custom winches for over 40 years.

This tremendous experience allows us to assist you in designing and

manufacturing the ideal winch for your most demanding projects.

Please contact LANTEC for more information.

LANTEC

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