

A MODULAR LINE OF HYDRAULIC WINCHES

This catalogue contains detailed sales information on the LANTEC LW Series Winches. With 20 basic models, a modular design, customizable drums and flexible input options, LANTEC LW Winches suit many applications.

Experience

LANTEC ... Recognized worldwide for providing highly dependable winches, 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 winch 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.

Reliability

LANTEC's 2-year
warranty is the
best in the business.
Our low warranty cost
is the envy of
the winch industry
and is a testament
to our rugged,
reliable design.

LANTEC

lift lower pull position

modula



construction

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. Please see separate brochure.

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.

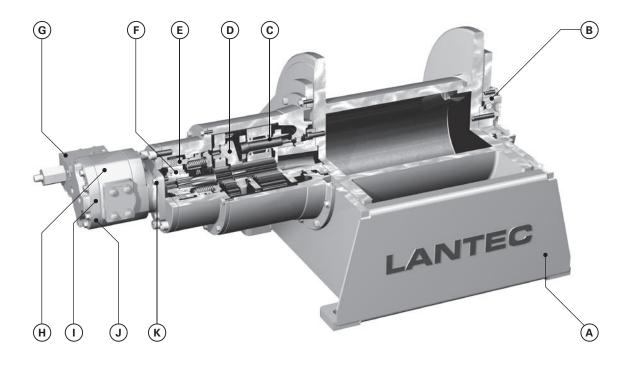
Dual drives have two motors, two brakes, and two drive modules, for high-horsepower capability.

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.

Features

Typical LW Series Winch



- A High strength fabricated steel base
- B High capacity rolling bearings for long, trouble-free life with minimum maintenance
- C 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
- H Standard gear motor for durability
- I Optional 2-speed gear motor for faster "light-load" speeds
- 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

2 YEAR WARRANTY
BEST IN THE INDUSTRY

Many Options and Accessories are available to meet your most demanding applications. Refer to page 10.

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

Cable Drum Capacities

Drum Dimensions (in)

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 3 "dead" wraps of cable to be left on the drum at all times).

Nominal Wire Rope Diameter (in)

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

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
081 082 083	8 8 8	18 18 18	10 16 24	681 1,089 1,634	436 697 1,046	262 419 628	185 296 444											
084	8	24	10	1,340	779	541	428											_
085	8	24	16	2,145	1,247	866	684											_
086 101	10	24 24	24 10	3,217 1,246	1,870 778	1,299 526	1,026 407	312	234									_
102	10	24	16	1,994	1,244	842	651	499	374									_
103 104	10	24 30	24 14	2,991	1,866 1,877	1,263 1,255	977 904	748 733	561 495									_
105	10	30	20	4,189	2,681	1,793	1,292	1,047	707									_
106 121	10	30 26	30 14	6,283	4,021 1,218	2,689 825	1,938 637	1,571 488	1,061 367	268								_
122	12	26	20		1,739	1,178	910	696	524	382								_
123 124	12	26 32	30 14		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 28	30 14		4,423 1,347	2,961 913	2,135 704	1,728 539	1,173 406	1,106 297	278	196						_
142	14	28	20		1,924	1,304	1,005	770	579	424	398	279						
143 144	14	28 36	30 14		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						
146 161	14	36 32	30 14		5,261	3,592 1,148	2,639 900	2,160 704	1,516 545	1,206 413	1,142 305	898 287	203	193				
162	16	32	20			1,641	1,286	1,005	778	591	436	410	290	275				
163 164	16 16	32 40	30 20			2,461 3,128	1,929 2,130	1,508 1,759	1,167 1,268	886 1,027	653 823	615 782	435 617	413 476				
165	16	40	30			4,691	3,194	2,639	1,902	1,541	1,234	1,173	926	714				_
166 181	16 18	40 34	40 20			6,255	4,259 1,394	3,519 1,089	2,537 843	2,055 641	1,645 474	1,564 445	1,235 316	952 299	285	272		_
182	18	34	30				2,090	1,634	1,265	961	710	668	474	449	427	408		_
183 184	18	34 42	40 20				2,787 2,285	2,178 1,885	1,686 1,361	1,282 1,103	947 884	890 838	632 663	598 512	570 490	545 471		_
185	18	42	30				3,428	2,827	2,042	1,654	1,325	1,257	994	767	735	707		_
186 201	18	42 36	40 20				4,570 1,501	3,770 1,173	2,723 908	2,205 691	1,767 512	1,676 480	1,325 342	1,023 323	980 307	943 293	187	_
202	20	36	30				2,252	1,759	1,362	1,037	768	720	512	485	461	440	280	_
203 204	20	36 44	40 20				3,003 2,441	2,346 2,011	1,816 1,454	1,382 1,178	1,023 944	960 894	683 708	646 548	614 524	586 503	374 364	_
205	20	44	30				3,661	3,016	2,182	1,767	1,417	1,340	1,062	821	785	754	545	_
206 241	20	44	40 20				4,881	4,021	2,909 1,039	2,356 792	1,889 588	1,787 550	1,415 393	1,095 371	1,047 352	1,005 335	727 215	198
242	24	40	30						1,558	1,188	882	825	590	557	528	503	322	297
243 244	24	40 48	40 20						2,077 1,641	1,583 1,329	1,176 1,066	1,100 1,005	786 798	742 619	704 591	670 566	429 410	396 285
245	24	48	30						2,461	1,993	1,599	1,508	1,197	929	886	848	615	427
246 301	30	48 48	40 24						3,281	2,658	2,133 1,049	2,011 980	1,596 737	1,239 696	1,181 503	1,131 478	820 436	570 283
302	30	48	36								1,573	1,470	1,106	1,044	754	716	654	424
303 304	30	48 60	48 24								2,097 1,999	1,960 1,885	1,474 1,553	1,391 1,264	1,005 1,206	955 968	871 729	566 679
305	30	60	36								2,999	2,827	2,329	1,896	1,810	1,451	1,093	1,018
306 361	30	60 54	48 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 66	48 24										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 60	48 36										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	60 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
426 481	42	72 66	60 36											4,021	3,820	3,079 1,056	2,325 955	2,149 628
482	48	66	54													1,583	1,433	942
483 484	48	66 78	72 36													2,111 2,045	1,910 1,546	1,255 1,425
485	48	78	54													3,068	2,319	2,138
486	48	78	72													4,090	3,091	2,850

Estimated Gross Cable Capacity (ft)

Consult Factory

Not Available

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

Consult LANTEC for recommendation of a cost-effective solution.

Performance LWS Series — Single Drive

This table shows the basic 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	ı	Drum Size			Line Pull			ine Speed			.ine Spee n with Standa		Basic	c Output	Data	Bas	sic Input D	ata		Hydraulic	Supply Re	equired w	ith Stand	lard Moto	Recommended Minimum			
	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	Minimum			
		in	in	lb	lb	lb	fpm	fpm	fpm	fpm	fpm	fpm	lb-in	rpm	rpm		lb-in	rpm	rpm	in ³	psi(d)	psi(d)	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				
	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				
	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				
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				
	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			
	441	42	12	101,100	02,300	03,000	US	09	109	59	11	54	2,200,000	0	J	023.34	4,300	3,200	2,/50	12.3	2,300	2,0/0	100	Zŏ	30			

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

Performance LWD Series – Dual Drive

This table shows the basic 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	lel Drum Size Line Pull (Maximum)							ine Speed			ine Spee		Basi	c Output	Data	Bas	sic Input D	ata		Hydraulic	Supply R	equired w	rith Stand	dard Motor	Recommended Minimum Flow gpm 100 100 100 100 100 100 100 100 100 10			
	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				
		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	4,399,000	6	5	529.94	4,500	3,200	2,750	12.3	2,500	2,870	300	56	100			

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

single drive

Dimensional DataLWS Series — Single Drive

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

Model	Minimum Flange Diameter	Overall Height	Overall Width	Overall Length	Drum Centerline to Motor End	Drum Axis to Mounting Pads	Base Length
	В	D	Е	F	G	Н	J
			All dimensio	ns are in inches.			
LWS100	16	B + 1 7/8	B + 5 3/8	C + 41 1/8	C/2 + 34 1/2	B/2 + 1 7/8	C + 13 1/8
LWS160	17 1/4	B + 1 7/8	B + 5 3/8	C + 41 5/8	C/2 + 35 1/8	B/2 + 1 7/8	C + 13 1/8
LWS240	19 1/4	B + 1 7/8	B + 5 3/8	C + 45	C/2 + 38 3/8	B/2 + 1 7/8	C + 13 1/8
LWS330	22	B + 2 1/4	B + 6 1/2	C + 45 3/4	C/2 + 39 1/8	B/2 + 2 1/4	C + 13 1/8
LWS430	22	B + 2 1/4	B + 6 1/2	C + 45 3/4	C/2 + 39 1/8	B/2 + 2 1/4	C + 13 1/8
LWS570	22	B + 2 1/4	B + 6 1/2	C + 49 7/8	C/2 + 43 1/4	B/2 + 2 1/4	C + 13 1/8
LWS800	26 1/4	B + 2 1/4	B + 6 1/2	C + 51 1/8	C/2 + 44 3/8	B/2 + 2 1/4	C + 13 1/2
LWS1200	30 1/2	B + 2 1/4	B + 7 1/2	C + 56 3/8	C/2 + 49 3/8	B/2 + 2 1/4	C + 14
LWS1700	34 1/2	B + 2 1/4	B + 7 1/2	C + 57 5/8	C/2 + 50 5/8	B/2 + 2 1/4	C + 14
LWS2200	34 1/2	B + 2 1/4	B + 7 1/2	C+ 607/8	C/2 + 53 3/8	B/2 + 2 1/4	C + 15

To Determine Winch Dimensions

FIRST

Use the Cable Capacity Chart on page 3 to select the ...

Barrel Diameter (A)

Flange Diameter (B)

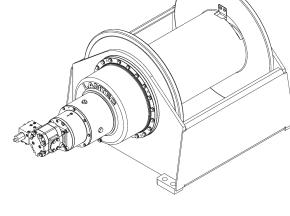
(subject to the minimum per table above)

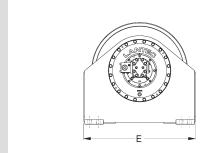
Drum Length Between Flanges (C)

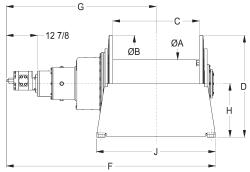
SECOND

Use the formula in the table above to calculate the approximate winch dimensions

- B = Drum Flange Diameter
- C = Drum Length Between Flanges







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

Diagram LWS Series

dual drive

Dimensional DataLWD Series — Dual Drive

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

Model	Minimum Flange Diameter	Overall Height	Overall Width	Overall Length	Drum Centerline to Motor End	Drum Axis to Mounting Pads	Base Length
	В	D	Е	F	G	Н	J
			All dimension	ns are in inches.			
LWD200	16	B + 1 7/8	B + 5 3/8	C+ 69	C/2 + 34 1/2	B/2 + 1 7/8	C + 13 1/8
LWD310	17 1/4	B + 1 7/8	B + 5 3/8	C + 70 1/4	C/2 + 35 1/8	B/2 + 1 7/8	C + 13 1/8
LWD460	19 1/4	B + 1 7/8	B + 5 3/8	C + 76 3/4	C/2 + 38 3/8	B/2 + 1 7/8	C + 13 1/8
LWD680	22	B + 2 1/4	B + 6 1/2	C + 78 1/4	C/2 + 39 1/8	B/2 + 2 1/4	C + 13 1/8
LWD850	22	B + 2 1/4	B + 6 1/2	C + 78 1/4	C/2 + 39 1/8	B/2 + 2 1/4	C + 13 1/8
LWD1100	22	B + 2 1/4	B + 6 1/2	C + 86 1/2	C/2 + 43 1/4	B/2 + 2 1/4	C + 13 1/8
LWD1600	26 1/4	B + 2 1/4	B + 6 1/2	C + 88 3/4	C/2 + 44 3/8	B/2 + 2 1/4	C + 13 1/2
LWD2400	30 1/2	B + 2 1/4	B + 7 1/2	C+ 983/4	C/2 + 49 3/8	B/2 + 2 1/4	C + 14
LWD3500	34 1/2	B + 2 1/4	B + 7 1/2	C + 101 1/4	C/2 + 50 5/8	B/2 + 2 1/4	C + 14
LWD4400	34 1/2	B + 2 1/4	B + 7 1/2	C + 106 3/4	C/2 + 53 3/8	B/2 + 2 1/4	C + 15

To Determine Winch Dimensions

FIRST

Use the Cable Capacity Chart on page 3 to select the ...

Barrel Diameter (A)

Flange Diameter (B)

(subject to the minimum per table above)

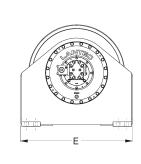
Drum Length Between Flanges (C)

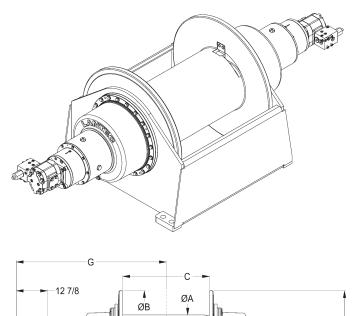
SECOND

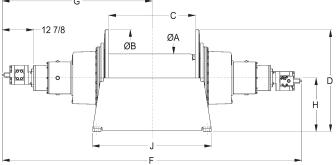
Use the formula in the table above to calculate the approximate winch dimensions

- B = Drum Flange Diameter
- C = Drum Length Between Flanges

Diagram LWD Series







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

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

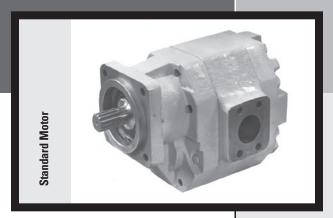
Levelwind LANTEC provides a powered levelwind device to assist in proper cable spooling for applications with a large fleet angle.

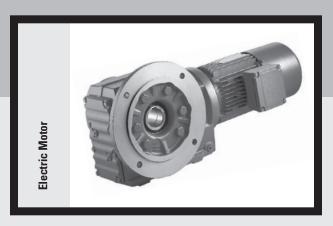
Drum Pressure Roller LANTEC provides a roller, forced into contact with the cable on the drum by adjustable springs to help prevent "birdsnesting" and assist with cable spooling. This option is also available with sensors indicating top and bottom layer conditions.

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

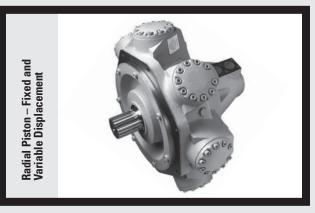
® LeBus and the Grooved Sleeve design are Registered Trademarks of LeBus International Inc. 10

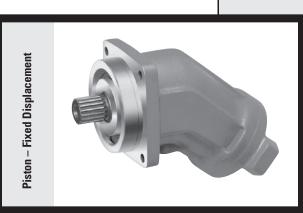
Motor Selection











LANTEC LW Series Winches utilize a heavy-duty gear type motor designed with performance characteristics specifically suited to winch applications. This is a time proven and very durable hydraulic motor well suited to most applications.

For high-pressure hydraulic systems employing piston pumps and high-grade system components, we offer LW Series Winches with SAE C or D motor mounting configurations.

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

Some equipment manufacturers prefer to retain complete system responsibility. Therefore, we also offer the LW Series 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.

Piston – Variable Displacement

Parts Service Installation

service

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 winch.

When a winch serial number is provided with your order we crosscheck to ensure you have ordered the right parts for the job.

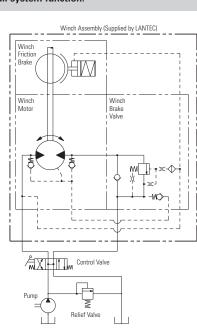
LANTEC provides in-factory service and rebuild of your winch including visual inspection, magnetic particle inspection, rebuilding, testing, recertification and recoating.

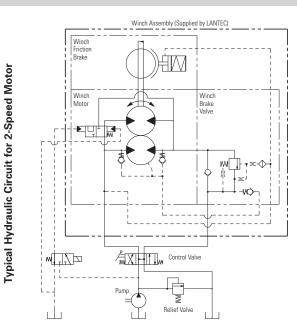
Factory Authorized Service Centers are conveniently located with factory-trained service personnel to perform troubleshooting, inspection and service.

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

Stallation

Typical Hydraulic Circuit for Standard Motor



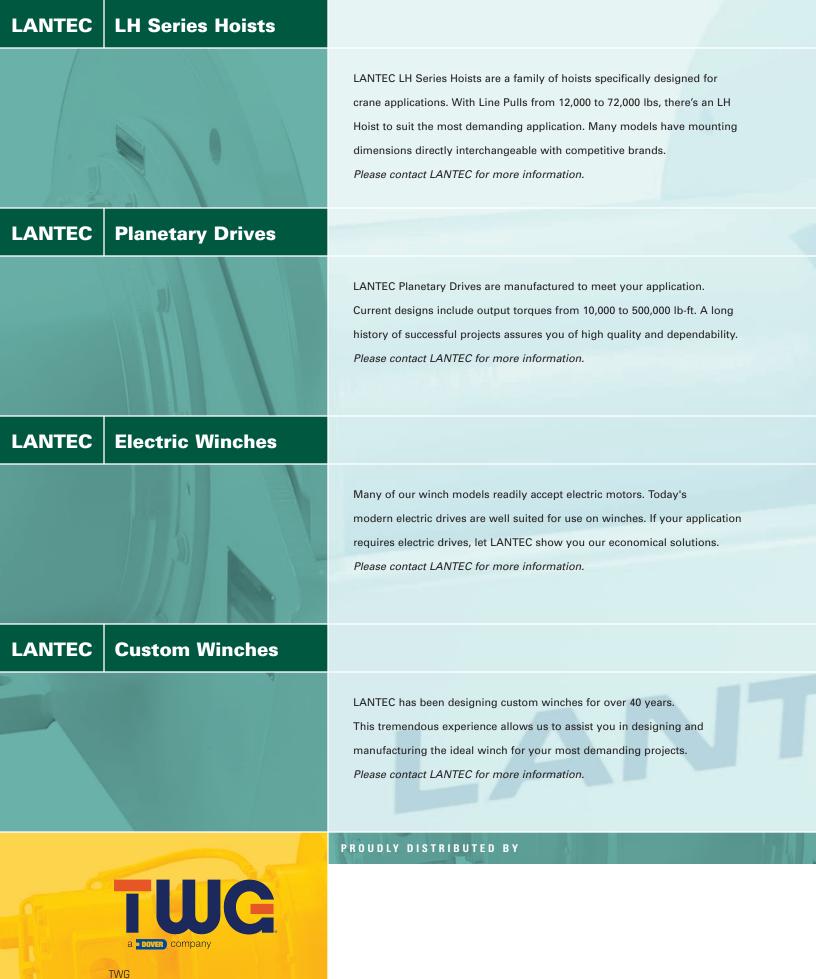


Application Data Sheet

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.		│ □ lb │ □ ton │ □ kg │ □ tonne
Condition for Maximum Pull Requirement	Is this maximum line pull required on the top layer, mid (mean) layer, or first layer?	☐ 1st Layer☐ Mid Layer☐ Top Layer	Check C
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 C
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 3 "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. LANTEC recommends a minimum of 14:1 for most 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.	-	gpm lpm psi bar
Preferred Hydraulic Motor Type	To be indicated if there is a preference.	☐ Gear ☐ Piston	Check C
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.		
Application Type	Describe General Application		
			_



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



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