

LANTEC

LW Series Winches

A MODULAR LINE OF HYDRAULIC WINCHES

**Line pulls from
12,000 lb to 300,000 lb**



LANTEC

Winch & Gear Inc.

GEAR DRIVES
WINCHES & HOISTS
BRAKES & CLUTCHES

Driven to Excellence

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.

Reliability

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



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 versatility quality

modular

lift
lower
pull
position



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.

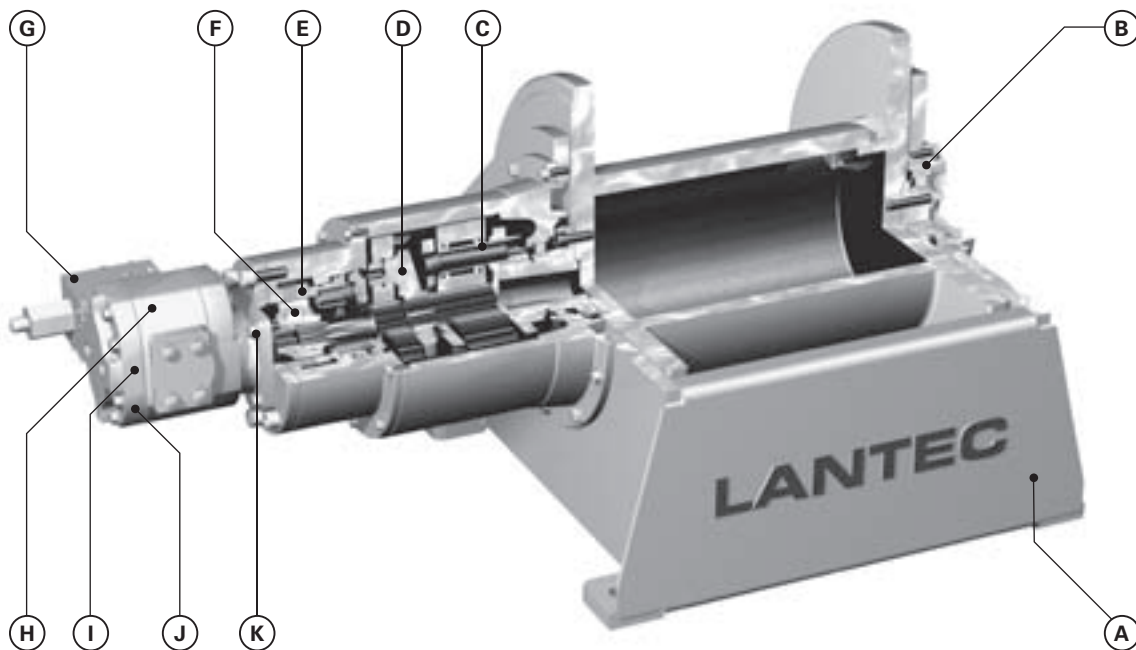
LANTEC LW Series Winches are suitable for most crane and lifting applications as well as pulling and positioning. They are available with single drives or dual drives. Dual drives have two motors, two brakes, and two drive modules, for high-horsepower capability.

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 |
| 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 |

features

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

Cable Drum Capacities

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 3 "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.

cable drum capacities

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

| Model | Drum Size | | | Line Pull (Maximum) | | | Line Speed (Maximum Allowable) | | | Line Speed (Maximum with 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 |
| | | <i>in</i> | <i>in</i> | <i>lb</i> | <i>lb</i> | <i>lb</i> | <i>fpm</i> | <i>fpm</i> | <i>fpm</i> | <i>fpm</i> | <i>fpm</i> | <i>fpm</i> |
| LWS100 | 08X | 8 | 24 | 23,200 | 16,100 | 9,000 | 312 | 558 | 803 | 268 | 479 | 690 |
| | 12X | 12 | 32 | 16,100 | 11,400 | 6,600 | 450 | 774 | 1,097 | 387 | 665 | 943 |
| | 16X | 16 | 40 | 12,300 | 8,800 | 5,200 | 589 | 990 | 1,391 | 506 | 851 | 1,196 |
| LWS160 | 08X | 8 | 24 | 35,100 | 24,600 | 14,000 | 207 | 363 | 518 | 177 | 311 | 445 |
| | 12X | 12 | 32 | 24,400 | 17,300 | 10,200 | 297 | 504 | 710 | 255 | 433 | 610 |
| | 16X | 16 | 40 | 18,700 | 13,400 | 8,000 | 387 | 645 | 902 | 332 | 554 | 775 |
| LWS240 | 10X | 10 | 30 | 41,900 | 29,200 | 16,500 | 169 | 300 | 431 | 145 | 258 | 370 |
| | 14X | 14 | 36 | 31,000 | 22,300 | 13,500 | 229 | 378 | 527 | 197 | 325 | 453 |
| | 18X | 18 | 42 | 24,600 | 18,000 | 11,400 | 288 | 456 | 623 | 248 | 392 | 535 |
| LWS330 | 12X | 12 | 32 | 52,100 | 37,400 | 22,600 | 136 | 226 | 315 | 117 | 194 | 270 |
| | 16X | 16 | 40 | 40,100 | 28,900 | 17,700 | 177 | 289 | 401 | 152 | 249 | 345 |
| | 20X | 20 | 44 | 32,400 | 24,200 | 16,000 | 219 | 331 | 443 | 188 | 285 | 381 |
| LWS430 | 12X | 12 | 32 | 64,600 | 46,600 | 28,500 | 110 | 180 | 249 | 94 | 154 | 214 |
| | 16X | 16 | 40 | 49,900 | 36,100 | 22,300 | 142 | 230 | 318 | 122 | 198 | 273 |
| | 20X | 20 | 44 | 40,400 | 30,300 | 20,200 | 176 | 264 | 352 | 151 | 227 | 302 |
| LWS570 | 14X | 14 | 36 | 73,600 | 53,600 | 33,500 | 96 | 154 | 212 | 83 | 133 | 182 |
| | 18X | 18 | 42 | 58,700 | 43,500 | 28,200 | 121 | 186 | 251 | 104 | 160 | 216 |
| | 24X | 24 | 48 | 44,900 | 34,700 | 24,400 | 158 | 225 | 291 | 136 | 193 | 250 |
| LWS800 | 14X | 14 | 36 | 104,100 | 76,500 | 48,900 | 68 | 107 | 145 | 59 | 92 | 125 |
| | 18X | 18 | 42 | 83,300 | 62,200 | 41,100 | 85 | 129 | 173 | 73 | 111 | 148 |
| | 24X | 24 | 48 | 63,900 | 49,700 | 35,500 | 111 | 156 | 200 | 95 | 134 | 172 |
| LWS1200 | 16X | 16 | 40 | 134,900 | 100,300 | 65,600 | 52 | 79 | 106 | 44 | 68 | 91 |
| | 20X | 20 | 44 | 111,300 | 84,900 | 58,400 | 62 | 91 | 119 | 54 | 78 | 102 |
| | 30X | 30 | 60 | 76,600 | 59,100 | 41,600 | 91 | 129 | 167 | 78 | 111 | 144 |
| LWS1700 | 18X | 18 | 42 | 175,600 | 134,000 | 92,400 | 40 | 58 | 75 | 34 | 50 | 65 |
| | 24X | 24 | 48 | 136,400 | 107,700 | 78,900 | 51 | 70 | 88 | 44 | 60 | 76 |
| | 36X | 36 | 66 | 94,000 | 74,800 | 55,500 | 74 | 100 | 125 | 64 | 86 | 108 |
| LWS2200 | 20X | 20 | 44 | 200,000 | 155,000 | 110,000 | 35 | 49 | 63 | 30 | 42 | 54 |
| | 30X | 30 | 60 | 138,600 | 108,300 | 77,900 | 50 | 70 | 89 | 43 | 60 | 77 |
| | 42X | 42 | 72 | 101,100 | 82,500 | 63,800 | 69 | 89 | 109 | 59 | 77 | 94 |

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

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.

| Basic Output Data | | | Basic Input Data | | | 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 | Required Pressure (Run) | Required Pressure (Start) | Flow Required at Maximum Speed | Minimum Flow Required for Smooth Performance | Recommended Minimum Flow |
| <i>lb-in</i> | <i>rpm</i> | <i>rpm</i> | | <i>lb-in</i> | <i>rpm</i> | <i>rpm</i> | <i>in³</i> | <i>psi(d)</i> | <i>psi(d)</i> | <i>gpm</i> | <i>gpm</i> | <i>gpm</i> |
| 101,500 | 136 | 117 | 23.49 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 101,500 | 136 | 117 | 23.49 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 101,500 | 136 | 117 | 23.49 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 155,600 | 89 | 76 | 36.00 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 155,600 | 89 | 76 | 36.00 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 155,600 | 89 | 76 | 36.00 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 230,600 | 59 | 50 | 54.46 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 230,600 | 59 | 50 | 54.46 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 230,600 | 59 | 50 | 54.46 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 338,400 | 40 | 34 | 79.91 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 338,400 | 40 | 34 | 79.91 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 338,400 | 40 | 34 | 79.91 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 424,000 | 32 | 27 | 100.10 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 424,000 | 32 | 27 | 100.10 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 424,000 | 32 | 27 | 100.10 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 561,000 | 24 | 21 | 132.55 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 561,000 | 24 | 21 | 132.55 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 561,000 | 24 | 21 | 132.55 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 807,000 | 17 | 14 | 190.59 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 807,000 | 17 | 14 | 190.59 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 807,000 | 17 | 14 | 190.59 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 1,197,000 | 11 | 10 | 288.29 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 1,197,000 | 11 | 10 | 288.29 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 1,197,000 | 11 | 10 | 288.29 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 1,756,000 | 8 | 7 | 423.03 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 1,756,000 | 8 | 7 | 423.03 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 1,756,000 | 8 | 7 | 423.03 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 2,200,000 | 6 | 5 | 529.94 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 2,200,000 | 6 | 5 | 529.94 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |
| 2,200,000 | 6 | 5 | 529.94 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 150 | 28 | 50 |

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.

| Model | Drum Size | | | Line Pull (Maximum) | | | Line Speed (Maximum Allowable) | | | Line Speed (Maximum with 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 |
| | | <i>in</i> | <i>in</i> | <i>lb</i> | <i>lb</i> | <i>lb</i> | <i>fpm</i> | <i>fpm</i> | <i>fpm</i> | <i>fpm</i> | <i>fpm</i> | <i>fpm</i> |
| LWD200 | 10X | 10 | 30 | 37,300 | 25,900 | 14,400 | 388 | 698 | 1,008 | 333 | 600 | 866 |
| | 14X | 14 | 36 | 27,500 | 19,700 | 11,800 | 526 | 878 | 1,230 | 452 | 755 | 1,057 |
| | 18X | 18 | 42 | 21,700 | 15,900 | 10,000 | 669 | 1,057 | 1,444 | 575 | 908 | 1,241 |
| LWD310 | 12X | 12 | 32 | 47,800 | 34,300 | 20,700 | 303 | 501 | 698 | 260 | 430 | 600 |
| | 16X | 16 | 40 | 36,900 | 26,600 | 16,300 | 393 | 642 | 890 | 337 | 551 | 765 |
| | 20X | 20 | 44 | 29,800 | 22,300 | 14,700 | 486 | 735 | 983 | 417 | 631 | 845 |
| LWD460 | 12X | 12 | 32 | 69,600 | 50,500 | 31,300 | 204 | 329 | 454 | 175 | 283 | 390 |
| | 16X | 16 | 40 | 53,800 | 39,100 | 24,400 | 263 | 422 | 581 | 226 | 363 | 499 |
| | 20X | 20 | 44 | 43,900 | 33,000 | 22,000 | 323 | 485 | 646 | 278 | 417 | 555 |
| LWD680 | 14X | 14 | 36 | 88,100 | 64,400 | 40,700 | 161 | 255 | 349 | 139 | 220 | 300 |
| | 18X | 18 | 42 | 70,300 | 52,300 | 34,300 | 202 | 308 | 414 | 173 | 265 | 356 |
| | 24X | 24 | 48 | 53,900 | 41,800 | 29,600 | 263 | 372 | 480 | 226 | 319 | 412 |
| LWD850 | 14X | 14 | 36 | 109,400 | 80,400 | 51,400 | 130 | 203 | 276 | 111 | 174 | 237 |
| | 18X | 18 | 42 | 87,500 | 65,400 | 43,200 | 162 | 245 | 328 | 139 | 211 | 282 |
| | 24X | 24 | 48 | 67,200 | 52,300 | 37,300 | 211 | 296 | 381 | 182 | 255 | 327 |
| LWD1100 | 16X | 16 | 40 | 127,400 | 94,300 | 61,100 | 111 | 172 | 232 | 96 | 148 | 200 |
| | 20X | 20 | 44 | 104,500 | 79,700 | 54,800 | 136 | 198 | 259 | 117 | 170 | 223 |
| | 30X | 30 | 60 | 71,900 | 55,500 | 39,100 | 198 | 281 | 363 | 170 | 241 | 312 |
| LWD1600 | 18X | 18 | 42 | 162,400 | 123,400 | 84,400 | 87 | 128 | 168 | 75 | 110 | 144 |
| | 24X | 24 | 48 | 126,000 | 99,100 | 72,100 | 113 | 155 | 197 | 97 | 133 | 169 |
| | 36X | 36 | 66 | 86,400 | 68,700 | 51,000 | 164 | 221 | 278 | 141 | 190 | 239 |
| LWD2400 | 24X | 24 | 48 | 184,100 | 146,500 | 108,800 | 76 | 102 | 128 | 65 | 88 | 110 |
| | 36X | 36 | 66 | 127,200 | 101,800 | 76,300 | 109 | 146 | 182 | 94 | 126 | 157 |
| | 48X | 48 | 78 | 96,900 | 80,300 | 63,600 | 143 | 181 | 219 | 123 | 156 | 188 |
| LWD3500 | 24X | 24 | 48 | 265,100 | 214,200 | 163,300 | 52 | 69 | 85 | 45 | 59 | 73 |
| | 36X | 36 | 66 | 184,800 | 149,100 | 113,300 | 75 | 99 | 123 | 65 | 86 | 106 |
| | 48X | 48 | 78 | 141,200 | 117,800 | 94,300 | 99 | 124 | 148 | 85 | 106 | 127 |
| LWD4400 | 30X | 30 | 60 | 270,700 | 215,400 | 160,000 | 51 | 69 | 87 | 44 | 60 | 75 |
| | 42X | 42 | 72 | 200,000 | 164,700 | 129,400 | 70 | 89 | 107 | 60 | 76 | 92 |
| | 48X | 48 | 78 | 176,000 | 147,500 | 118,900 | 79 | 98 | 117 | 68 | 85 | 101 |

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

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.

| Basic Output Data | | | Basic Input Data | | | 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 | Required Pressure (Run) | Required Pressure (Start) | Flow Required at Maximum Speed | Minimum Flow Required for Smooth Performance | Recommended Minimum Flow |
| <i>lb-in</i> | <i>rpm</i> | <i>rpm</i> | | <i>lb-in</i> | <i>rpm</i> | <i>rpm</i> | <i>in³</i> | <i>psi(d)</i> | <i>psi(d)</i> | <i>gpm</i> | <i>gpm</i> | <i>gpm</i> |
| 203,000 | 136 | 117 | 23.49 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 203,000 | 136 | 117 | 23.49 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 203,000 | 136 | 117 | 23.49 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 311,000 | 89 | 76 | 36.00 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 311,000 | 89 | 76 | 36.00 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 311,000 | 89 | 76 | 36.00 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 461,000 | 59 | 50 | 54.46 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 461,000 | 59 | 50 | 54.46 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 461,000 | 59 | 50 | 54.46 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 677,000 | 40 | 34 | 79.91 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 677,000 | 40 | 34 | 79.91 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 677,000 | 40 | 34 | 79.91 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 848,000 | 32 | 27 | 100.10 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 848,000 | 32 | 27 | 100.10 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 848,000 | 32 | 27 | 100.10 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 1,123,000 | 24 | 21 | 132.55 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 1,123,000 | 24 | 21 | 132.55 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 1,123,000 | 24 | 21 | 132.55 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 1,614,000 | 17 | 14 | 190.59 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 1,614,000 | 17 | 14 | 190.59 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 1,614,000 | 17 | 14 | 190.59 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 2,393,000 | 11 | 10 | 288.29 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 2,393,000 | 11 | 10 | 288.29 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 2,393,000 | 11 | 10 | 288.29 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 3,512,000 | 8 | 7 | 423.03 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 3,512,000 | 8 | 7 | 423.03 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 3,512,000 | 8 | 7 | 423.03 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 4,399,000 | 6 | 5 | 529.94 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 4,399,000 | 6 | 5 | 529.94 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |
| 4,399,000 | 6 | 5 | 529.94 | 4,500 | 3,200 | 2,750 | 12.3 | 2,500 | 2,870 | 300 | 56 | 100 |

Dimensional Data
LWS 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 |
|--------------------------------------|-------------------------|----------------|---------------|----------------|------------------------------|----------------------------|-------------|
| | B | D | E | F | G | H | J |
| <i>All dimensions are in inches.</i> | | | | | | | |
| 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 + 60 7/8 | 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

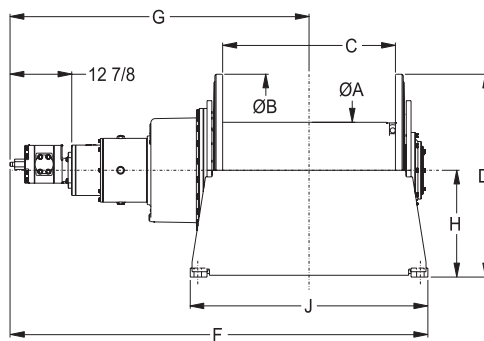
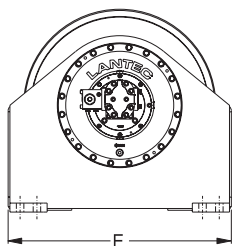
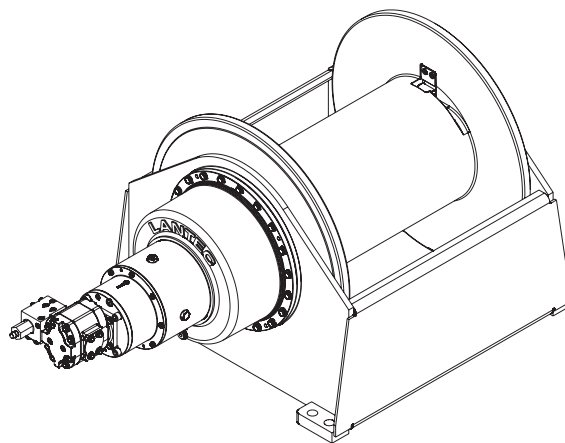


Diagram LWS Series

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

Dimensional Data
LWD 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 |
|--------------------------------------|-------------------------|----------------|---------------|----------------|------------------------------|----------------------------|-------------|
| | B | D | E | F | G | H | J |
| <i>All dimensions are in inches.</i> | | | | | | | |
| 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 + 98 3/4 | 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)

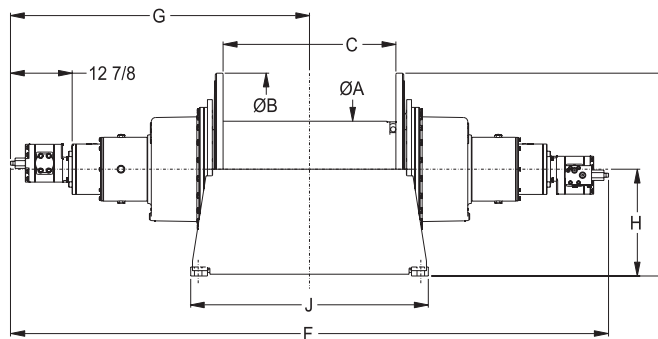
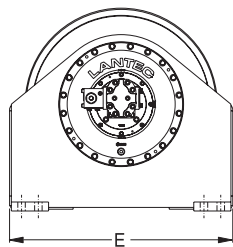
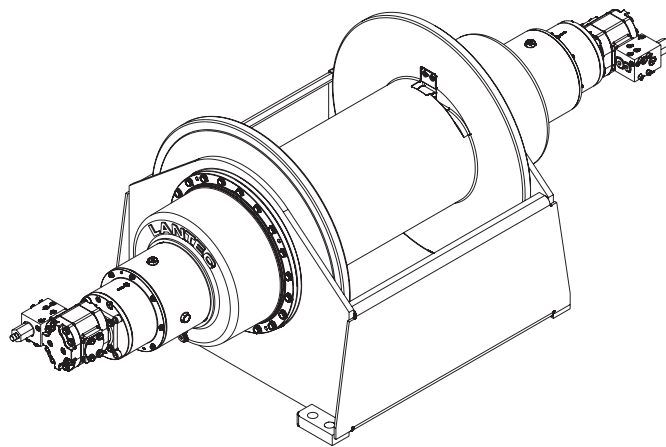
Drum Length Between Flanges (C)

SECOND

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

B = Drum Flange Diameter

C = Drum Length Between Flanges



dual drive

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.

Options & Accessories

LANTEC LW Series Winches are available with a wide variety of optional configurations and accessories to create the winch 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 the available hydraulic power and motor selection.

Hydraulic Motor LANTEC supplies the winch with a hydraulic motor that matches the customer's hydraulic system to provide optimum performance. 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. Manual operation is also available.

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.

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Motor Selection

Standard Motor



Electric Motor



2-Speed Motor



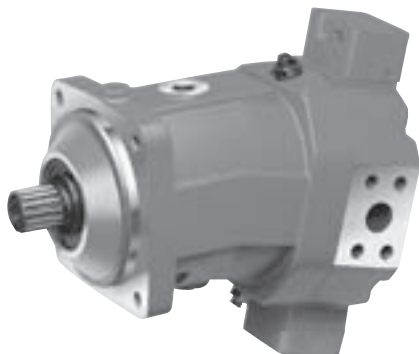
Radial Piston – Fixed and Variable Displacement



Piston – Fixed Displacement



Piston – Variable Displacement



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.

motor selection

Parts
Service
Installation

parts

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).

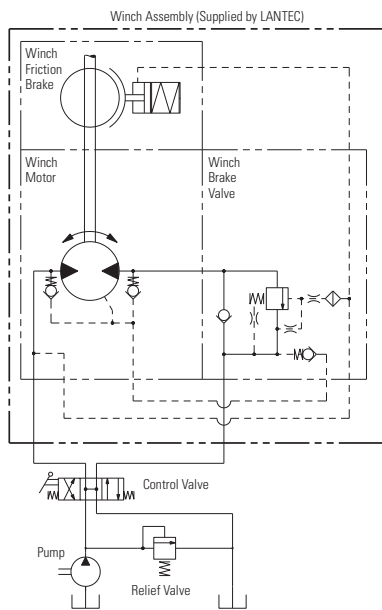
Our Parts professionals work hard to ensure you receive the correct parts for your winch. When a winch serial number is provided with your order we crosscheck to ensure you have ordered the right parts for the job.

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

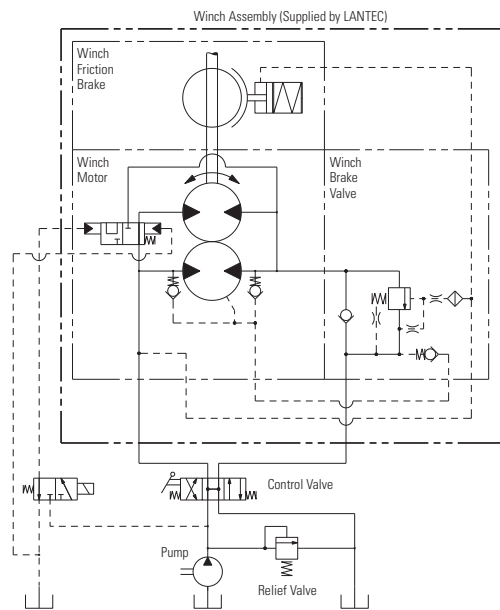
Factory Authorized Service Centers are conveniently located with factory-trained service personnel to perform troubleshooting, inspection and service.

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.

Typical Hydraulic Circuit for Standard Motor



Typical Hydraulic Circuit for 2-Speed Motor



installation

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. | <input type="checkbox"/> lb <input type="checkbox"/> ton <input type="checkbox"/> kg <input type="checkbox"/> tonne |
| Condition for Maximum Pull Requirement | Is this maximum line pull required on the top layer, mid (mean) layer, or first layer? | <input type="checkbox"/> 1st Layer <input type="checkbox"/> Mid Layer <input type="checkbox"/> 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. | <input type="checkbox"/> fpm <input type="checkbox"/> m/min |
| Condition for Line Speed Requirement | Is this line speed required on the top layer, mid (mean) layer, or first layer? | <input type="checkbox"/> 1st Layer <input type="checkbox"/> Mid Layer <input type="checkbox"/> 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. | <input type="checkbox"/> in <input type="checkbox"/> 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). | <input type="checkbox"/> ft <input type="checkbox"/> 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. | <input type="checkbox"/> in <input type="checkbox"/> 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. | <input type="checkbox"/> gpm <input type="checkbox"/> lpm <input type="checkbox"/> psi <input type="checkbox"/> bar |
| Preferred Hydraulic Motor Type | To be indicated if there is a preference. | <input type="checkbox"/> Gear <input type="checkbox"/> Piston ◀ Check One |
| 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. | <input type="checkbox"/> ft <input type="checkbox"/> m |

| | |
|-------------------------|-------------------------------|
| Application Type | Describe General Application |
| | <hr/> <hr/> <hr/> <hr/> <hr/> |



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.**

LANTEC

LH Series Hoists

LANTEC LH Series Hoists are a family of hoists specifically designed for crane applications. With Line Pulls from 12,000 to 72,000 lbs, there's an LH Hoist to suit the most demanding application. Many models have mounting dimensions directly interchangeable with competitive brands.

Please contact LANTEC for more information.

LANTEC

Planetary Drives

LANTEC Planetary Drives are manufactured to meet your application. Current designs include output torques from 10,000 to 500,000 lb-ft. A long history of successful projects assures you of high quality and dependability.

Please contact LANTEC for more information.

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.

Please contact LANTEC for more information.

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.



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