

# COLUMBIA

## WINCH & HOIST



For more than **25** years

*More performance.  
More options.  
More value.*



# ***We can move it!***



*No matter how much, how fast or how far you need to lift, pull or position, our promise to you is very simple: **WE CAN MOVE IT!***

*For more than 25 years Allied Power Products, Inc. has specialized in delivering winches, hoists, capstans and cranes to meet specific application requirements.*

*Depending on your needs, we can supply a stock unit, modify a standard model or design and manufacture a completely custom product for your application. Regardless of what your material handling needs may be, we are ready to respond.*

*Our Columbia winches and hoists are the perfect choice for meeting hundreds of typical pulling or lifting requirements. Power choices include AC electric, DC electric or pneumatic motors, and a wide variety of options and modifications are available. An extensive range of capacities, drum sizes and gear ratios make Columbia Winches and Hoists perfect for virtually any lifting or pulling application.*

*Designed, assembled and tested in Oregon.*

# INDUSTRIES WE SERVE

***You will see Columbia products hard at work in every facet of industry where lifting and pulling challenges require specific solutions.***



## ***Aerospace/Defense***

From small DC davit hoists to synchronized lifting systems with capacities exceeding one thousand tons, APPI has been able to meet the specific requirements of all branches of the US military for more than 25 years.



## ***High-Lift***

Wind towers, smoke stacks, and tower erection all benefit from our custom approach to designing systems with high weight and cable capacity, explosion proof requirements, and a choice of power sources.



## ***Logging/Forestry***

Columbia's hydraulic yarding systems expand production, integrating machine hydraulic systems and cab-mounted electrical control consoles, each tailored to its specific application.



## ***Mining***

When down time equals millions in losses, Columbia consistently provides solutions to the problems associated with conveyor positioning, maintenance, and tensioning, as well as cable reeving applications.



## ***Utilities***

Columbia can provide custom hydraulic and pneumatic units ideal for any application where ignition of any kind can spell disaster. We design solutions for oil & gas, waste management and pipe-bursting applications that will meet your requirements.



## ***Arts & Entertainment***

From lifting lighting, speaker racks and scoreboards, to positioning set components, our hoists provide both precision and control, meeting the performance and safety requirements of these very specialized applications.



## ***Construction***

From commercial glass installation, positioning pre-fabricated stair sections to installing elevators, our unmatched selection of base mounted hoists and custom units get jobs done faster with less manpower.



## ***Marine***

Needing to perform reliably in some of the harshest of environments, we offer a variety of specialized winching and hoisting equipment to meet the tough demands of commercial fishing, marine construction and marine research.



## ***Tractor Systems***

Line pulls to more than 100,000 pounds and precise inching capability while paying cable in or out, Columbia hydraulic tractor winches have no equal for power and control. It is possible to tailor a winch package to fit virtually any tractor or application.



# STANDARD AC ELECTRIC HOISTS *rated to 15,000 lbs.*



## **HD2000**

Rated to lift 2000 lbs at 12 fpm.  
Includes -01 drum (5" long)  
and 40' of 5/16" wire rope with  
latching hook.

## **Features:**

- *Rated for vertical lifting*
- *Spring applied, electrically released brakes*
- *Totally enclosed geartrain*
- *High-efficiency reduction*
- *TEFC UL-listed brakemotors*
- *Simple base-mount installation*
- *Durable domestic motors*



## **HF1500**

Rated to lift 1500 lbs at 24 fpm.  
Includes -02 drum (10" long).  
Wire rope supplied separately.



## **HG5600**

Rated to lift 5600 lbs at 8 fpm.  
Includes -02 drum (10" long).  
Wire rope supplied separately.



## **HR3500**

Rated to lift 3500 lbs at 17 fpm.  
Wire rope supplied separately.



## **HL12000**

Rated to lift 12,000 lbs at 13 fpm.  
Includes -02 drum (10" long).  
Wire rope supplied separately.

# STANDARD AC ELECTRIC WINCHES *rated to 40,000 lbs.*

*Our AC electric winches share most major components with our hoists but are rated for pulling.*



## **WD2000**

Rated for 2000 lbs line pull at 12 fpm. Includes -01 drum (5" long) and 40' of 5/16" wire rope with latching hook.



## **WF7000**

Rated for 4700 lbs line pull at 12 fpm. Includes -02 drum (10" long) Wire rope supplied separately.



## **WG11000**

Rated for 11,000 lbs line pull at 8 fpm. Includes -02 drum (10" long) Wire rope supplied separately.



## **WN20000**

Rated for 20,000 lbs line pull at 15 fpm. Wire rope supplied separately.



## **WR40000**

Rated for 40,000 lbs line pull at 5.3 fpm. Wire rope supplied separately.

## **Options:**

*We can customize these units to your specific needs and requirements with an array of options.*

- Hammerhead Trolleys
- Manual Overhead Trolleys
- AutoAdvance Line Spoolers
- Strap drum conversions
- Explosion-proof ratings
- Cable tensioners
- Electric control options
- Lagged, grooved and divided drums
- Wire rope, sheaves, snatch blocks and other rigging
- Quick-mount brackets
- Limit switches
- Overload protection circuits
- Amphenol connectors
- Washdown and marine ratings
- Epoxy overcoating



# STANDARD PNEUMATIC HOISTS *rated to 15,000 lbs.*



## **HD2000-P**

Rated to lift 2000 lbs at 19 fpm.  
Includes -01 drum (5" long) and 40'  
of 5/16" wire rope with latching hook.

## **Features:**

- *Rated for vertical lifting*
- *Spring applied, pneumatically released brakes*
- *Totally enclosed geartrain*
- *High-efficiency reduction*
- *Dependable vane motor*
- *Simple base-mount installation*



## **HF3150-P**

Rated to lift 3150 lbs at 21 fpm.  
Includes -02 drum (10" long)  
Wire rope supplied separately.



## **HL12000**

Rated to lift 12,000 lbs at 12 fpm.  
Includes -02 drum. Wire rope  
supplied separately.



## **HG5000-P**

Rated to lift 5000 lbs at 13 fpm.  
Includes -02 drum. Wire rope  
supplied separately.



# STANDARD PNEUMATIC WINCHES *rated to 40,000 lbs.*

*Standard pneumatic winches share most major components with our hoists but are rated for pulling.*



## **WD2700-P**

Rated for 2700 lbs line pull at 13 fpm. Includes -01 drum (5" long) and 40' of 5/16" wire rope with latching hook.



## **WF6300-P**

Rated for 6300 lbs line pull at 21 fpm. Includes -02 drum (10" long) Wire rope supplied separately.



## **WG10000-P**

Rated for 10,000 lbs line pull at 13 fpm. Includes -02 drum (10" long) Wire rope supplied separately.



## **WN20000**

Rated for 20,000 lbs line pull at 7 fpm. Wire rope supplied separately.



## **WR40000**

Rated for 40,000 lbs line pull at 6 fpm. Wire rope supplied separately.

## **Options:**

*We can customize these units to your specific needs and requirements with an array of options.*

- Hammerhead Trolleys
- Manual Overhead Trolleys
- AutoAdvance Line Spoolers
- Strap drum conversions
- Explosion-proof ratings
- Lagged, grooved and divided drums
- Cable tensioners
- Wire rope, sheaves, snatch blocks and other rigging
- Quick-mount brackets
- Limit switches
- Epoxy overcoating
- A variety of control options



# OVERHEAD TROLLEYS

*Our trolleys are designed to work specifically with our HD, HF and HG series Columbia hoists.*

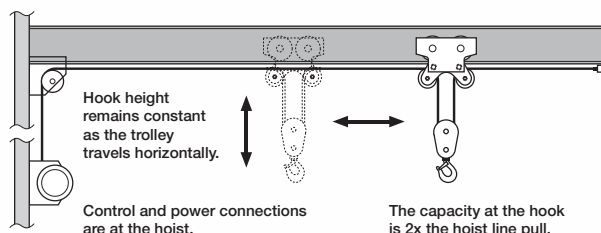
- Low friction bearings are used throughout to ensure efficient operation and ease of movement.
- Chain and power drive options are available for all of our trolleys.
- 1, 3 and 5 ton standard capacities.
- Higher capacities available upon request.
- Custom designs can be provided upon request.



## HAMMERHEAD TROLLEYS

*A Columbia exclusive.*

- When used with one of our Columbia base-mounted hoists, the low weight of these trolleys allows for a higher net load at the hook than a conventional overhead hoist.
- No need for power at the trolley.
- The compact design of the trolley allows for greater hook height.
- 1, 3, 5, 7½ and 10 ton standard capacities.
- Custom designs can be provided upon request.





# AUTOADVANCE LINE SPOOLERS

*An innovative system using carefully arranged components driven by line tension to create perfect line spooling onto a drum.*

- AutoAdvance Line Spoolers eliminate the need for a fixed sheave precisely located in relationship to the drum.
- AutoAdvance Line Spoolers make it possible for an incoming line to move up and down, left and right and rotate 360 degrees or more around the spooler without affecting spooling.
- AutoAdvance Line Spoolers do not have the parasitic power losses, component timing problems or maintenance requirements associated with typical level wind devices.



## STRAP DRUM CONVERSIONS

*With hoist capacities to 5,600 lbs. and winch capacities to 11,000 lbs., Columbia strap drum models provide versatile load handling capability while eliminating the inherent disadvantages of wire rope or chain.*

- In addition to being easier to handle, inspect and install, straps eliminate load rotation problems associated with wire rope and chain.
- Unlike wire rope, straps wind smoothly without long lead distances to the drum.
- Straps do not require lubrication nor do they "jagger", chip or spark.



# STANDARD DAVIT CRANES

**With lifting capacities of 400, 500, and 1,000 lbs.**

- Fabricated steel construction
- Integral swing handle
- Headache ball
- Upper limit switch
- Easy assembly
- Mounting base included
- AC, DC, Hydraulic and Pneumatic hoist options
- Custom designs can be provided upon request.



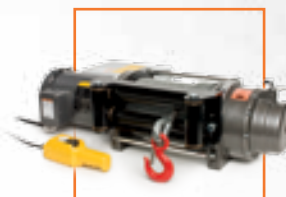
## OPTIONS

**Make sure your unit functions exactly as you need it to.**



### Electric Control Options

- Two-Button Low-Voltage Pendants in NEMA 4X, NEMA 6, and other ratings
- Speed Potentiometer or E-stop
- NEMA 4 wall mount with keyed switch
- Available for hazardous locations



### Four-Roller Fairleads

- High strength steel rollers
- Nylon bushings provide excellent roller life and smooth cable retrieval
- Strong welded frame
- Powder coated epoxy paint



### Vertical Lead Sheaves

- Fabricated steel construction
- Simple installation at any angle
- Nylatron and steel sheaves available
- Bolt on limit switches available
- Custom sizes available



### Cable Tensioners

- Helps prevent wire rope from tangling when free-spooling
- Assists in giving more uniform spooling of wire rope on the drum



### Horizontal Lead Sheaves

- Fabricated steel construction
- Simple installation at any angle
- Nylatron and steel sheaves available
- Custom sizes available



### Explosion-Proof Ratings

- For use in extreme conditions
- Explosion-proof rated controls
- Several explosion-proof rated motors



# CUSTOM UNITS

*If one of our standard Columbia models does not fit your needs we can design and build a custom unit that meets your exact application requirements.*

*Please contact us for specific information. No matter what your material handling needs may be, we are ready to respond.*





## **TWO YEAR LIMITED WARRANTY**

Columbia Winch & Hoist warrants the products it manufactures to be free from defects in material and workmanship to the original buyer for a period of 24 MONTHS from the date of shipment from Columbia Winch & Hoist. All warranties for products sold but not manufactured by Columbia Winch & Hoist are solely that of the manufacturer.

This warranty and liability of Columbia Winch & Hoist is limited to the replacement or repair of any product manufactured by Columbia Winch & Hoist if the product is found – upon examination at our facility – defective due to materials or workmanship. All freight, removal and/or installation charges shall be borne by the Buyer.

This warranty does not cover failures or malfunctions found by Columbia Winch & Hoist to result from:

- Improper installation, operation and/or maintenance of the product.
- Replacements, repairs and/or alterations made by or on behalf of the buyer without written approval from Columbia Winch & Hoist.
- Use of accessories and/or other components in conjunction with the product without written approval from Columbia Winch & Hoist.

COLUMBIA WINCH & HOIST SHALL NOT IN ANY EVENT BE HELD LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGE OR FOR EXPENSES OR DELAY CAUSED BY DEFECTIVE MATERIAL OR WORKMANSHIP.

Except for the above warranty, Columbia Winch & Hoist makes no other express or implied warranties and NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

This warranty shall be governed by and construed in accordance with the laws of the State of Oregon and enforced in Oregon courts. If any portion of this limited warranty and limitation on damages is determined to be invalid or unenforceable, the remainder of the warranty shall remain in full force and effect.

All warranty claims must be submitted to Columbia Winch & Hoist in writing to: Allied Power Products, Inc.  
6590 SW Fallbrook Place  
Beaverton, OR 97008

**WARNING: Our products are not to be used to lift or move people or to lift anything over people.**

**[www.columbiawinch.com](http://www.columbiawinch.com)**

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**Manufactured by Allied Power Products, Inc.**

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