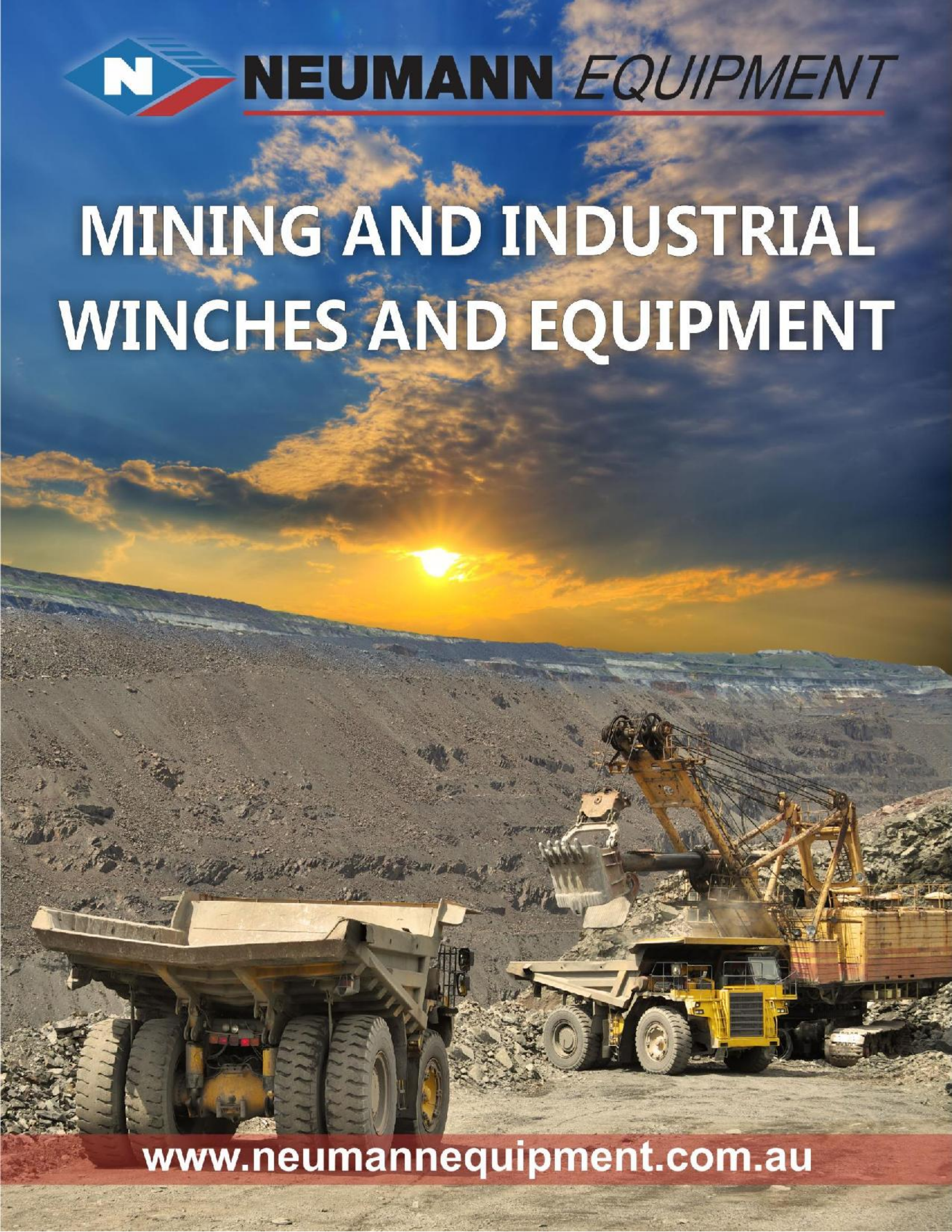
NEUMANN EQUIPMENT

MINING AND INDUSTRIAL WINCHES AND EQUIPMENT



www.neumannequipment.com.au

Mining and Industrial Equipment

Design and Manufacture

Neumann Equipment has a range of high quality Mining and Industrial Equipment, designed by qualified engineers to perform and excel in a range of mining and industrial applications.

The design and engineering of all our Mining and Industrial Winches and Dredging Equipment is carried out in house by qualified mechanical engineers using our FEA Computer modelling software. This is checked by third parties to ensure these products comply with all relevant specifications and meet the applicable Australian Standards.

When purchasing Mining and Industrial Equipment, you can feel confident in Neumann Equipment designed and manufactured products. From the design stage though to the dispatch, our internal Quality Assurance Systems fully comply with AS/NZS ISO 9001:2008.

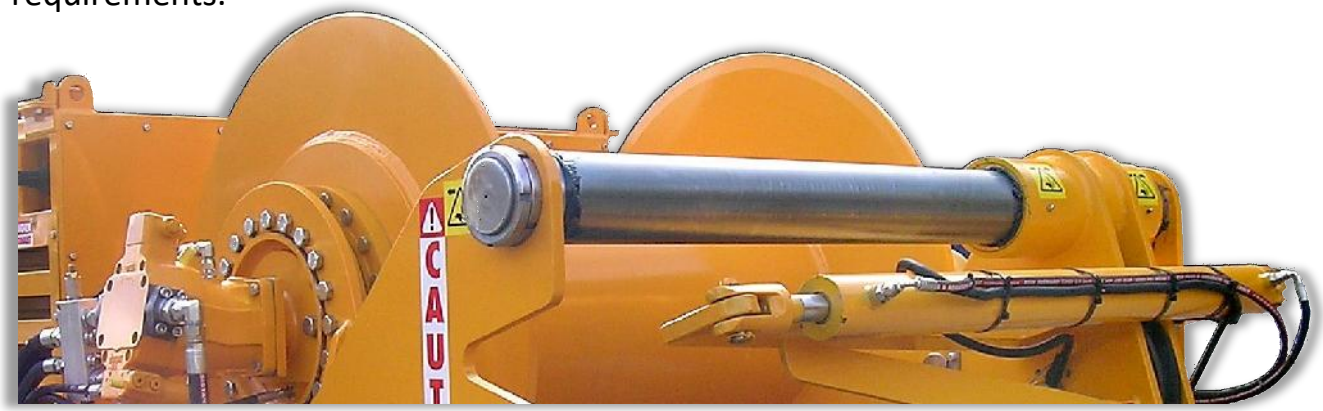
QUALITY SYSTEMS APPROVED
SCI QUAL INTERNATIONAL
QUALITY APPROVED TO AS/NZS ISO 9001:2008
REGN. Number 3008

Each item of equipment is designed and manufactured at our facility in Currumbin, on the Gold Coast, Queensland.

Neumann Equipment has been manufacturing cutter suction dredges and associated equipment for the open market and their contracting arm of the business since 1948.

When you are next in the market for quality Mining and Industrial Equipment you cannot go past our range of Australian designed and manufactured products.

Contact our experienced Sales, Service and Spare Parts team to discuss your requirements.



Diesel Hydraulic Winches

(Self-Contained Units)

Neumann Equipment manufactures a range of self-contained Diesel Hydraulic Winch Units. They are specifically designed for the Hire and Utility Industries that require transportable winches for a variety of applications.

The DHW package consists of the hydraulic winch, a diesel power pack and skid mounting frame.

These self-contained units offer both high and low winching speeds. All models can be optioned with wire feeders indexed to suit each wire rope diameter and can monitor line tension and distance by LED screen. Data logging is also available.

The skid base comes with forklift tyne slots and center lifting post for ease of handling. They also incorporate mounting holes and tie down points around the perimeter to allow these units to be adequately secured.

These winches comply with Australian Standards and are factory acceptance tested and certified by third party inspectors.

Neumann Equipment's range of DHW Series of Self-Contained Winch Units include the following standard specifications:

- Line pull options are from 8,800 lb to 22,000 lb on the top layer;
- Two speed operation;
- Winch base and drum are fabricated from Grade A36 carbon steel;
- Heavy duty industrial protective coating.

Options include:

- PLC kits available for distance, tension, data logging;
- Spooling systems: over-head, out front, or Archimedes screw;
- Capstan.

For more information, refer/request/download the **Self-Contained Winch Unit** brochure

SELF-CONTAINED WINCH UNIT SPEC.	DHW4000	DHW6000	DHW10000
Top Layer Line Pull @ Low Speed	8818 lb	13,228 lb	22,046 lb
Bottom Layer Line Pull @ Low Speed	14,628 lb	21,965 lb	36,859 lb
Max. Drum Speed @ Low/High	10/20 rpm	8/12 rpm	6/12 rpm
Rope Size (Max)	5/8"	3/4"	1"
Drum Width	39½"	39½"	39½"
Cheek Diameter	31½"	39½"	47¼"
Drum Capacity	3,937'	3,937'	3,937'
Power/Drive Unit – Engine/Pump	33.5 hp/1.09 in^3	51 hp/1.7 in^3	51 hp /2.7 in^3

Multi-Purpose Winches

Neumann Equipment manufactures a range of Multi-Purpose Winches that range from 1,600 lb to 44,000 lb top layer line pull.

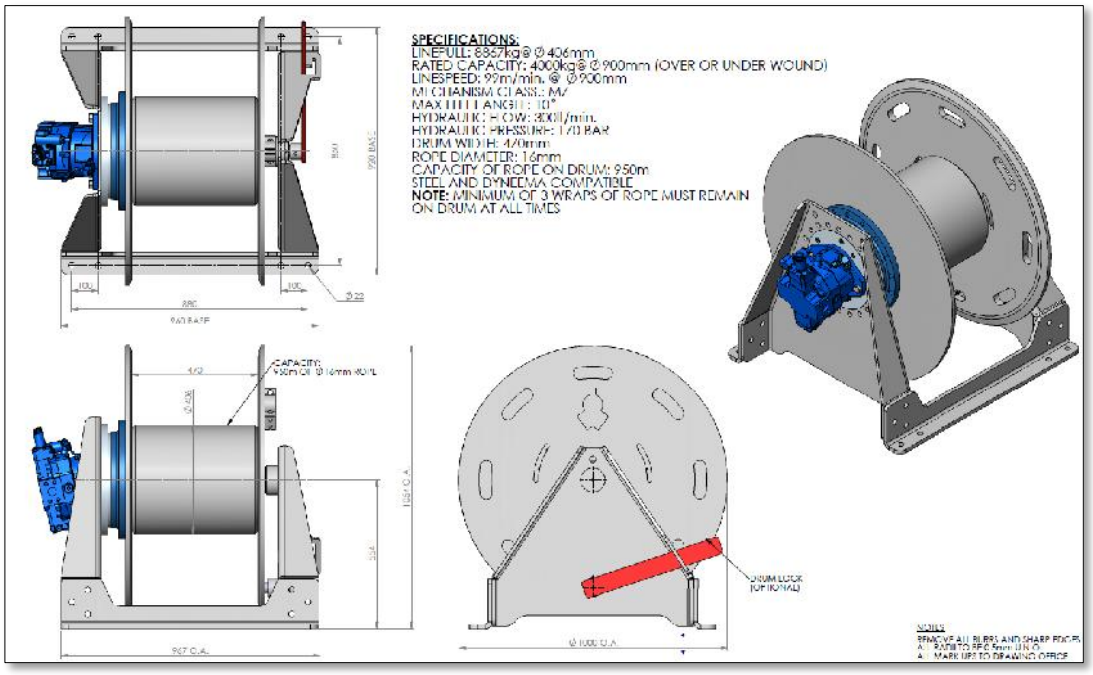
There are nine standard winches within this range. They are specially designed to be used in a wide range of mining and industrial applications.

Coupled with a hydraulic powerpack these winches will deliver excellent performance and reliability.

Electrically driven options are also available on the entire range.

Neumann Equipment's range of Multi-Purpose Winches include the following standard specifications:

- Line pull options are from 1,600 to 44,000 lb on the top layer;
- A wide variety of line speeds;
- Fail safe brakes within the drive system;
- Winch drum is supported with a fully sealed self-aligning outrigger bearing;
- Winch base and drum are fabricated from Grade A36 carbon steel;
- Heavy duty industrial protective coating;
- Optional electrically driven units.



Example – MPW4000H – 8,800 lb Multipurpose Winch (Hydraulic)

MULTI-PURPOSE WINCH SPECIFICATIONS	MPW750H	MPW1200H	MPW2000H
Line Pull – Top Layer	1,653 lb	2,646 lb	4,409 lb
Line Pull – Bottom Layer	5,159 lb	6,305 lb	8,135 lb
Line Speed – Top Layer	0 – 147 ft/min	0 – 147 ft/min	0 – 308 ft/min
Line Speed – Bottom Layer	0 – 45 ft/min	0 – 62 ft/min	0 – 167 ft/min
Drum Speed	0 – 36.7 rpm	0 – 35.8 rpm	0 – 50 rpm
Rope Size (typical)	3/8”	3/8”	1/3”
Drum Width	13¾”	15½”	15 ¾”
Drum Capacity (m)	1,247’	1,345’	1,854’
Drive (optional electrical drive)	Hydraulic	Hydraulic	Hydraulic

MULTI-PURPOSE WINCH SPECIFICATIONS	MPW3000H	MPW4000H	MPW6000H
Line Pull – Top Layer	6,614 lb	8,818 lb	13,228 lb
Line Pull – Bottom Layer	14,242 lb	19,533 lb	23,446 lb
Line Speed – Top Layer	0 – 419 ft/min	0 – 324 ft/min	0 – 65 ft/min
Line Speed – Bottom Layer	0 – 193 ft/min	0 – 147 ft/min	0 – 36 ft/min
Drum Speed	0 – 58 rpm	0 – 35 rpm	0 – 7.8 rpm
Rope Size (typical)	5/8”	5/8”	1”
Drum Width	18½”	18½”	22”
Drum Capacity (m)	1,854’	3,100’	1,132’
Drive (optional electrical drive)	Hydraulic	Hydraulic	Hydraulic

MULTI-PURPOSE WINCH SPECIFICATIONS	MPW7000H	MPW10000H	MPW20000H
Line Pull – Top Layer	15,532 lb	22,046 lb	44,092 lb
Line Pull – Bottom Layer	36,112 lb	32,573 lb	48,325 lb
Line Speed – Top Layer	0 – 295 ft/min	0 – 65 ft/min	0 – 72 ft/min
Line Speed – Bottom Layer	0 – 124 ft/min	0 – 45 ft/min	0 – 65 ft/min
Drum Speed	0 – 30 rpm	0 – 10.6 rpm	0 – 11.8 rpm
Rope Size (typical)	5/8”	1”	1 1/8”
Drum Width	19½”	27½”	25½”
Drum Capacity (m)	3,773’	623’	147’
Drive (optional electrical drive)	Hydraulic	Hydraulic	Hydraulic

Lifting/Hoisting Winches

Neumann Equipment specialize in the design and manufacture of Lifting and Hoisting Winches.

All Lifting/Hoisting Winches that are designed and manufactured by Neumann Equipment fully comply with the strict guidelines set in the Australian Standard AS1418 – Cranes, Hoists and Winches.

Our engineers can design these winches to suit your custom requirements and application. The design is then RPEQ certified to ensure compliance to design parameters and Australian Standards.

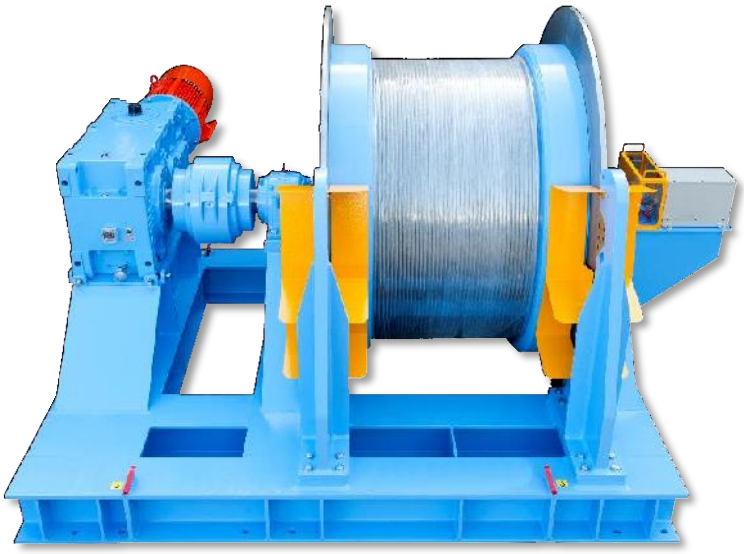
Neumann Equipment's range of Lifting/Hoisting Winches include the following standard specifications:

- Fully comply with AS1418 – Crane, Hoists and Winches;
- Line pull option are from 4,400 – 44,000 lb on the top layer;
- Fail safe multi disc spring applied brake;
- Winch drum is supported with a fully sealed self-aligning outrigger bearing;
- Winch base and drum are fabricated from Grade A36 carbon steel;
- Heavy duty industrial protective coating;
- Optional spooling systems: Archimedes screw.

The 4,409 lb and 44,092 lb Lifting/Hoisting Winch examples that are detailed in the table below were designed and manufactured for use on mobile drilling equipment.

LIFTING/HOISTING WINCH SPECIFICATIONS	LHW2000H	LHW20000H
Line Pull – Top Layer	4,409 lb	44,092 lb
Line Pull – Bottom Layer	7,055 lb	56,716 lb
Line Speed – Top Layer	0 – 456 ft/min	0 – 72 ft/min
Line Speed – Bottom Layer	0 – 272 ft/min	0 – 65 ft/min
Drum Speed	0 – 74 rpm	0 – 11.8 rpm
Rope Size (typical)	3/8"	1 1/8"
Drum Width	19½"	25½"
Drum Capacity	2,411'	148'
Drive (optional electrical drive)	Hydraulic	Hydraulic

Man Riding Winches



Neumann Equipment specialize in the design and manufacture of Man-Riding and Mine Winding Winches.

These systems are specially designed to meet the strict design parameters set out in the Mining Design Guidelines (MDG33 – Design, Commissioning and Maintenance of Drum Winders), and any other applicable standards.

This type of system can be used to transport raw materials from the mine as another option to just being used to haul personnel above and below the surface.

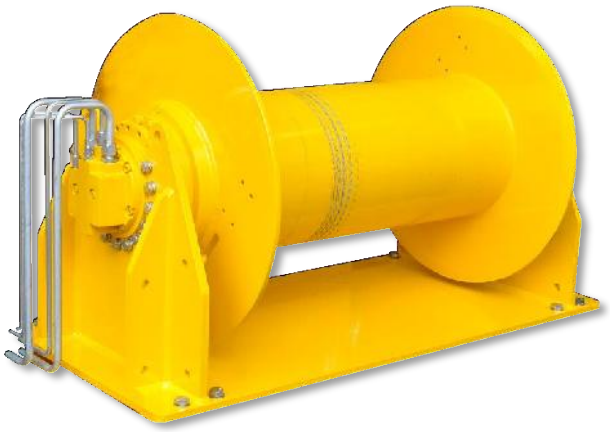
Neumann Equipment's range of Man-Riding/Mine Winding Winches include the following standard specifications:

- Fully comply with MDG 33 – Design, Commissioning and Maintenance of Drum Winders;
- Maximum line speed suited to each application;
- Separate braking systems, fail safe brakes within the drive system;
- Winch drum is supported with a fully sealed self-aligning outrigger bearing;
- Winch base and drum are fabricated from Grade A36 carbon steel;
- Heavy duty industrial protective coating.

We have the details listed below of two examples. Please use as a guide only, as we design and manufacture Man-Riding/Mine Winding Winches to suit the customer's specific requirements and application.

MAN-RIDING/MINE WINDING WINCH SPECIFICATIONS	MRW2500E	MRW3500E
Line Pull – Top Layer	5,644 lb	7,859 lb
Line Pull – Bottom Layer	5,644 lb	7,859 lb
Line Speed	0 – 295 ft/min	0 – 787 ft/min
Drum Speed	0 – 90 rpm	0 – 102 rpm
Rope Size (typical)	7/8"	7/8"
Drum Width	36"	27"
Drum Capacity	1,903'	2,493'
Drive (Electric only)	Electric	Electric

Hauling Winches



Neumann Equipment manufactures a range of Hauling Winches powered by either hydraulic or electric motors.

Neumann Equipment's range of Hauling Winches include the following standard specifications:

- Line pull options are from 8,800 to 22,000 lb on the top layer;
- Maximum line speed of up to 100 foot per minute;
- Fail safe brakes within the drive system;
- Winch drum is supported with a fully sealed self-aligning outrigger bearing;
- Winch base and drum are fabricated from Grade A36 carbon steel;
- Heavy duty industrial protective coating.

Options include:

- Hydraulic or Electric drives;
- Self-contained power unit for hydraulics;
- Overhead wire feed, or out front roller wire guide, or Archimedes screw type guide;
- Load sheaves;
- Capstan;
- Guarding.

The following table lists just a few of our standard Hauling Winches that are available. When you are next in the market for Hauling Winches please contact our sales team for expert service and advice.

HAULING WINCH UNIT SPECIFICATIONS.	HLW4000H	HLW6000H	HLW10000H
Line Pull – Top Layer	8,818 lb	13,228 lb	22,046 lb
Line Pull – Bottom Layer	15,212 lb	22,046 lb	36,817 lb
Line Speed – Top Layer	0 – 72 ft/min	0 – 72 ft/min	0 – 65 ft/min
Line Speed – Bottom Layer	0 – 43 ft/min	0 – 43 ft/min	0 – 39 ft/min
Drum Speed	0 – 10 rpm	0 – 8 rpm	0 – 6 rpm
Rope Size (typical)	5/8"	3/4"	1"
Drum Width	39½"	39½"	39½"
Drum Capacity	39½"	39"	39½"
Drive (optional electrical drive)	Hydraulic	Hydraulic	Hydraulic

Cable Handling Winches

Neumann Equipment manufactures a self-contained diesel hydraulic capstan winch designed for the hire and utility industries.

The maximum line pull of the Cable Handling Winch is 13,227 lb, with programmable capability from 1,102 lb up to the maximum of 13,227 lb.

Each line pull event can be logged providing reliable operational data to ensure the equipment is operating within designed parameters.

Neumann Equipment's Cable Handling Winches include the following standard specifications:

- Programmable line pulls 1,101 – 13,227 lb;
- Maximum line speed of 45 feet per minute;
- Tension monitoring with digital readout;
- Line distance monitoring with digital readout;
- Data logging capability;
- Overload alarm;
- Self-contained unit is fabricated from Grade A36 carbon steel;
- Fully lockable self-contained unit;
- Can be lifted by fork tynes or 4 point lifting chains;
- Heavy duty industrial protective coating.

CABLE HANDLING WINCH SPECIFICATIONS	CHW6000H
Line Pull (kg)	13,227 lb
Line Speed – Max	0 – 52 ft/min
Drum Speed - Capstan	0 – 15 rpm
Cable Size (Typical)	5/8"
Capstan Waist Diameter	13½"
Engine Power	26 hp @ 3,600 rpm
Fuel Tank Capacity	21 US gal
Hydraulic Pump	1.1 in^3
Overall Dimensions (L x W x H)	86½" x 44½" x 59"

Cable Drum Stands and Spoolers

Cable Drum Stands

Neumann Equipment manufactures a range of Cable Drum Stands designed to hold electrical cable drums. There are three standard sizes of 2,200, 26,450 and 44,090 lb.

The Cable Drum Stands consists of a base frame and a housing assembly which sit on the base frame to support the drum shaft.

Neumann Equipment's Cable Drum Stands include the following standard specifications:

- Bearings – roller or slipper;
- Fabricated from Grade A36 carbon steel;
- Can be lifted by fork tynes or 4 point lifting chains;
- Heavy duty industrial protective coating;
- Brake (Optional).

Cable Drum Spoolers

Neumann Equipment manufactures a 44,090 lb Cable Drum Spooler designed to hold and spool electrical cable drums up to 44,093 lb in weight.

The Cable Drum Spooler consists of a base frame and a housing assembly which sit on the base frame to support the drum shaft.

Neumann Equipment's Cable Drum Spooler include the following standard specifications:

- Electric motor with brake;
- In-line reduction gearbox;
- Nylon slipper bearing;
- Fully enclosed controls, mounted to A-frame;
- Fabricated from Grade A36 carbon steel;
- Can be lifted by fork tynes or 4 point lifting chains;
- Heavy duty industrial protective coating.

CABLE DRUM STANDS AND SPOOLERS SPECS.	CST1000	CST12000	CST20000	CSP20000
Maximum Capacity (kg)	2,205 lb	26,456 lb	44,093 lb	44,093 lb
Maximum Drum Width (mm)	43½"	78¾"	98½"	97¼"
Maximum Drum Diameter (mm)	67"	122"	104 ½"	126"
Spindle Diameter (mm)	3¼"	4¾"	4"	3¼"
Drum Collars & Locking Sleeves (mm)	4½"	6"	6"	6"
Weight (kg)	827 lb	2,646 lb	3,638 lb	5,556 lb

Electric Capstan Winches

Neumann Equipment manufactures a range of small, portable electric motor driven capstan winches. These have been specifically designed for electrical contractors to enable them to easily pull cables through conduits.

Neumann Equipment's range of Electric Capstan Winches include the following standard specifications:

- Lightweight for ease of mobility;
- 1,100lb, 850kg & 1,250kg line pull, other sizes available upon request;
- 3 hp 210V Electric Motor;
- Gearbox is the rugged and dependable Bonfiglioli worm drive;
- 4, 6 & 8 inch aluminum capstans available;
- Capstan speed of up to 32rpm;
- Maximum line speed of 65 feet per minute (on 1,100 lb line pull and 8 inch capstan).

The following table lists just a few of our standard portable Electric Capstan Winches that are available.

ELECTRIC CAPSTAN WINCH SPECIFICATIONS	ECW500E	ECW850E	ECW1250E
Line Pull	1,100 lb	1,875 lb	2,750 lb
Capstan Waist Diameter	8 "	6 "	4 "
Capstan Speed (rpm)	31.8 rpm	31.8 rpm	31.8 rpm
Line Speed	65 ft/min	52 ft/min	33 ft/min
Motor Type	210V CSCR IP55		
Motor Model	GMYL-100L1-4 B3		
Power	3 hp		
Gearbox Type	Bonfig. W110 U 56 P100		
Gearbox Ratio	45.2:1		
Weight – Dry (kg)	110 lb	130 lb	159 lb

Petrol Capstan Winches

Neumann Equipment manufactures a range of small, portable petrol motor driven capstan winches. These have been specifically designed for electrical contractors to enable them to easily pull cables through conduits.

Neumann Equipment's range of Petrol Motor Driven Capstan Winches include the following standard specifications:

- Lightweight for ease of mobility;
- Standard unit has a maximum of 2,200 lb line pull (PCW1000) up to 4,400lb (PCW2000), other sizes available upon request;
- Standard engine is the reliable Launtop stroke engine, Honda motor available upon request;
- Gearbox is the rugged and dependable Bonfiglioli;
- 4 inch aluminum capstan is standard, other sizes available;
- Capstan speed of up to 36rpm (PCW2000);
- Maximum line speed of 37 foot per minute (PCW2000).

The following table lists just a few of our standard portable Petrol Capstan Winches that are available.

PETROL CAPSTAN WINCH SPECIFICATIONS	PCW1000	PCW1500	PCW2000
Line Pull	2,200 lb	3,300 lb	4,400 lb
Capstan Waist Diameter	4"	4"	4"
Capstan Speed	0 – 30 rpm	0 – 30 rpm	0 – 36 rpm
Line Speed	0 – 33 ft/min	0 – 33 ft/min	0 – 37 ft/min
Engine Model (standard)	LT200	LT240	LT270
Engine Displacement	11.96 in^3	14.76 in^3	16.47 in^3
Engine Power (Continuous)	5 hp	6.1 hp	7.1 hp
Gearbox Type	Bonfig. WR86	Bonfig. WR110	Bonfig. A50
Gearbox Ratio	120:1	120:1	99.5:1
Weight – Dry	110 lb	159 lb	288 lb

Quick Hitch Capstan Winches

Neumann Equipment manufacture a range of small Quick Hitch Hydraulic Capstan Winches. Our range of capstans can be designed to fit a range of excavators, backhoes or bobcats.

The Quick Hitch Capstan Winches are typically used for electrical contractors to enable them to easily pull cables through conduits.

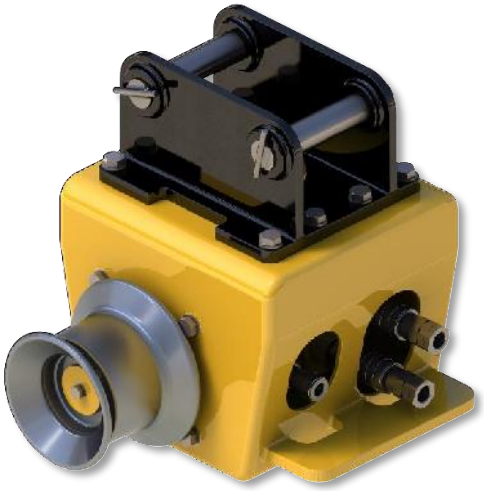


Figure 1 - Quick Hitch Capstan shown with optional mount assembly

The Quick Hitch Capstan Winches include:

- Capstan are machined from billet steel, and come a range of sizes to suit your application;
- Geroller style hydraulic motor;
- Fabrication of base frame from grade 250 carbon steel;
- Line pulls of 4,400 to 8,800 lbs;
- Typically 50 feet per minute line speed;
- All surfaces blasted to class 2.5 and coated in an industrial specification paint yellow in colour;
- Operation and maintenance manual.
- Optional quick hitch mount available upon request.

The following table lists just a few of our standard Hauling Winches that are available. When you are next in the market for Hauling Winches please contact our sales team for expert service and advice.

QUICK HITCH CAPSTAN WINCH UNIT SPECIFICATIONS	QHC2000	QHC3000	QHC5000
Rated Line Pull (lbs)	4,400	6,600	8,800
Capstan Size (typical) (inch ∅)	6 ½	6 ½	6 ½
Line Speed (typical) (ft/min)	0 – 50	0 – 50	0 – 50
Drum Speed (rpm)	0 – 28	0 – 28	0 – 28
Hydraulic Motor	OMV630	OMV800	OMV1250
Weight (lbs)	365	397	430

* Other sizes are also available

Dredge – Nu Explorer Series

Neumann Equipment manufacture the Nu Explorer Series cutter suction dredges.

The Nu Explorer is a small, compact, portable dredge, easily transportable in two 40' open top shipping containers, making it extremely cost effective to mobilize anywhere in the world.

The standard unit has a 260 hp Cummins engine providing power to the GIW KSB LCC-M 200-610 pump and hydraulics.

It has the wet slurry pumping capacity of approximately 850 yd^3/hr and can dredge to a maximum depth of 21 feet.

The standard unit can also be customized to suit your specific requirements.

NU EXPLORER CSD SPECIFICATIONS	DEX250
Length – Hull/LOA	37'5"/56'3"
Width	14'4"
Depth	4'8"
Dry Weight	50,707 lb
Cutting Depth	21'4"
Fuel Capacity	370 US gal
Engine - Model	Cummins 6CTA8.3-C
Engine Power/Torque	260 hp @2,200 rpm
Engine Torque	837 ft-lb @ 1,500 rpm
Transmission – Model/Ratio	Dong-I DTMP-5100/1.93:1
Slurry Pump – Model	GIW KSB LCC-M 200-610
Pipe Size	Suction - 10", Discharge – 8"
Power @ Pump	220 hp
Pumping Capacity – Total	850 yd^3/hr
Jetting / Priming Pump – Model	Southern Cross 4"x2½"-12½"
Jetting / Priming Pump – Size	Suction – 4", Discharge – 2½"
Cutter Wheel – Dia. / Speed	33½" / 0-30 rpm
Power @ Cutter/Cutter Force	33½ hp / 3,307 lb

Dredge – Platypus C Series

The Platypus C Series Dredge range has been specifically developed to meet the requirements of the mining industry. These dredges operate under very harsh conditions and are structurally reinforced to allow relocation of the dredges from slurry and settling ponds onto the surrounding hard rock embankments.

These dredges are available in two different frame sizes; 3'11" and 4'11", and input power ranges from 134 hp to 805 hp.

The bottom hull plate on the pontoons of the Platypus C series dredges are twice as thick as that of the standard dredge to prevent damage by sharp objects. The design is a three-piece modular dredge, with each module being easily transportable. The design enables quick dismantling and assembly for transportation. The assembled unit may also be transported short distances on a low bed vehicle.

Traditional keel cooling has been removed from these dredges reducing the risk of damage to cooling tubes during skid removal of the dredgers from ponds. Cooling of the main engine and hydraulic oils are achieved through air coolers fitted in the engine room.

A range of Jaden Dredge Cutter Heads are available for these dredges.

This range of dredge offers management further cost benefits through operational staff number reductions. Being a fully computerized electro/hydraulic control system with radio telemetry communication and controls, management have access to data recording and reports on daily/hourly operational achievements.

PLATYPUS C SERIES CSD SPECSIFICATIONS	DPC200	DPC250	DPC300
Length – LOA	48'7"	55'9"	107'3"
Length – Pontoons	44' 11"	44'11"	85'4"
Width	15'1"	16'9"	20'
Depth – Side Pontoons	3'11"	4'11"	4'11"
Dry Weight	66,150 lb	94,800 lb	198,400 lb
Cutting Depth	13'1"	21'4"	49'3"
Fuel Capacity	2,442 US gal	2,442 US gal	2,442 US gal
Frame Size Options	3'11"	3'11" - 4'11"	4'11"
CAT Engine Options (or equivalent)	C9 or C18	C18 or C27	C18 or C27
Slurry Pump Options (suction/discharge)	8"/6"	10"/8"	12"/10"
Dredge Cutter Options (Series)	S30HD – S60	S30HD – S60	S60HD – S120

Booster Pumps

Neumann Equipment manufacture a range of Booster Pumps. They are typically used for dredging where they are inserted in between the dredge and the discharge point to increase the system's overall capability to pump the product to greater heights and/or distances.

It is critical that the booster pump:

- Size matches that of the dredge pump;
- Can accommodate the same particle size as the dredge pump;
- Has at least the same size engine as that of the dredge pump;
- Can accommodate the design pressure (head) required to pump the product to the discharge or next booster;
- Can accommodate the same specific gravity of material as the dredge pump.

The table below shows the different Booster Pump configurations together with the relevant Krebs Pump and Caterpillar Engine.

Note: Other brand pumps and/or engines can also be supplied upon request.

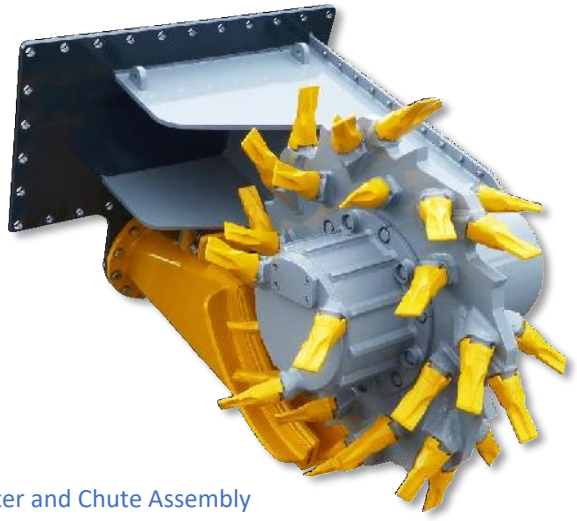
BOOSTER PUMP SPECIFICATIONS	BST200	BST250	BST300
CAT Engine Options (or equivalent)	C9 or C18	C18 or C27	C18 or C27
Engine Power	300/600 hp	600/876 hp	600/876 hp
Pump Size Options - Suction	8”/6”	10”/8”	12”/10”
Pipeline Sizing – ID	8”	10”	12”
Weight approx.	30,200/31,520 lb	43,650/44,975 lb	44,754/46,300 lb
Length Approx. LOA	19’2”/20”	20”4”/20’8”	20’8”/21’4”
Width Approx. WOA	9’2”	9’2”	9’2”
Height Approx. HOA	13’5”/13’9”	14’1”/14’5”	14’1”/14’5”

Jaden Dredge Cutters

Neumann Equipment manufactures the full range of Jaden Dredge Cutters.

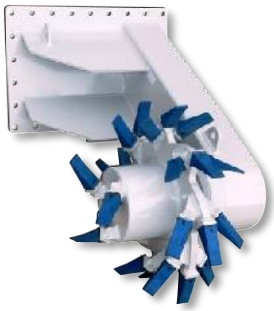
These are the cutters that are typically fitted to the Rockcrush and Jaden dredges, but can also be fitted to other types of dredges.

For more information, refer/request/download the **Jaden Dredge Cutter** brochure.

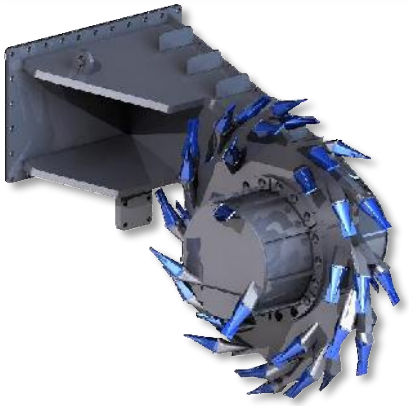


S60HD Dredge Cutter and Chute Assembly

S15 Cutter



S60HD Cutter (no chute)



S120 Cutter (no chute)

DREDGE CUTTER SPECS.	S15	S30	S30HD	S60	S60HD	S120
Cutter Diameter	29½"	36½"	36½"	47¼"	55¼"	70¾"
Suction Pipe	6"	6" – 12"	6" – 12"	8" – 12"	10" – 12"	12" – 18"
Mounting Flange	Table D or ANSI to suit suction pipe		53½"x 30½" STD or to suit with separate Table D or ANSI chute mount to suit			
Max. Bearing Load	2,205 lb	13,228 lb	13,228 lb	22,046 lb	55,116 lb	55,116 lb
Weight	551 lb	1,323 lb	1,764 lb	3,307 lb	4,409 lb	7,055 lb
Hydraulic Pressure	1,813 psi	2,538 psi	2,538 psi	2,538 psi	2,538 psi	2,538 psi
Torque (ft-lb)	1,033	3,688	3,688	8,851	13,276	22,126
Tip Force	838 lb	2,498 lb	2,498 lb	4,409 lb	5,732 lb	7,716 lb
Suit C Series Dredge*	C150	C150-300	C150-300	C200-300	C250-300	C300-450
* Can be adapted to suit other dredge or applications						

Dredge Winches

Neumann Equipment manufacture a range of Dredge Winches, designed to specifically suit dredging applications.

There are three sizes within the range, starting at 1,653, 4,409 and 8,818 lb top layer line pull unit.

We can also custom build a Dredge Winch suitable to your requirements.

Neumann Equipment's range of Dredge Winches include the following standard specifications:

- Compact planetary drive gearbox - Rexroth GFT;
- Rexroth hydraulic motors (or optional electric drive);
- Automatic drum lock - multiple disc brake;
- Winch drum is supported with a fully sealed self-aligning outrigger bearing;
- Winch base and drum are fabricated from Grade A36 carbon steel, 316 stainless steel available on request;
- Heavy duty marine protective coating.

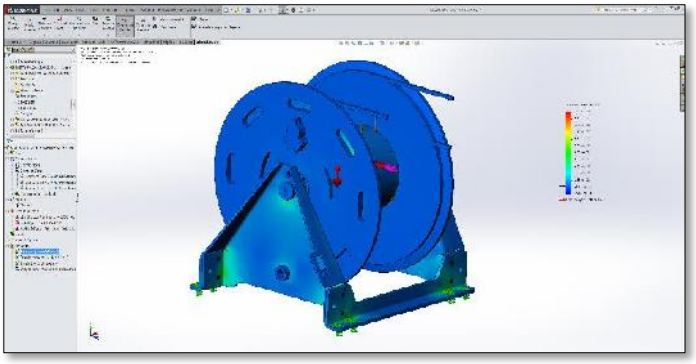
Our Quality Assurance procedures ensure that your Dredge Winch is manufactured to a high standard, returning many years of trouble free service.

When you're in the market to purchase a new Dredge Winch, you cannot afford to go past these quality Australian made and supported products.

DREDGE WINCH SPECIFICATIONS	DRW750H	DRW2000H	DRW4000H
Line Pull – Top Layer	1,653 lb	4,409 lb	8,818 lb
Line Pull – Bottom Layer	3,053 lb	7,275 lb	18,860 lb
Line Speed – Top Layer	0 – 66 ft/min	0 – 66 ft/min	0 – 66 ft/min
Line Speed – Bottom Layer	0 – 36 ft/min	0 – 39 ft/min	0 – 30 ft/min
Drum Speed	0 - 20.5 rpm	0 - 11.8 rpm	0 – 9 rpm
Rope Size (Typical)	7/16"	1/2"	5/8 "
Drum Width	8"	7"	18"
Drum Capacity	360'	1,804'	1,804'
Drive (optional electrical drive)	Hydraulic	Hydraulic	Hydraulic

Custom Winches

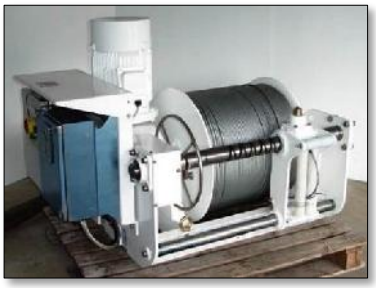
In addition to our comprehensive range of standard winches, we can specifically design and manufacture custom made winches to suit your requirements.
Our experienced in-house team can design a specific winch to meet your specifications. The designs are fully FEA modelled to ensure stresses are minimized and Australian design standards are achieved.











Spare Parts and Service

Neumann Equipment has been manufacturing dredges, winches and other supporting equipment for over 50 years.

Since the Company's inception, technology, equipment and manufacturing methodology have altered considerably. The key to the Company's success is the fundamental Neumann philosophy of finding solutions to engineering challenges.

Neumann Equipment has built a reputation for successfully completing difficult projects using engineering skills, innovative ideas and cost-effective solutions.

We pride ourselves in delivering outstanding service.

After Sales Service

Our aim is to provide you with the best technical advice and support both before and after you purchase. The experience of our technical and engineering teams means that customers have fast access to any technical support that may be required.

If you have any queries on the equipment we have provided, or if you need technical information on our product, please contact our experienced team.

Spare Parts

We can offer spare parts for all the equipment we manufacture. Many of the standard components are readily available, or if required our production team can manufacture components that may be required.

Supporting Documentation

Operations & Maintenance Manual

A comprehensive Operations and Maintenance Manual is included with each winch package. The document covers:

- Safety
- Risk Assessment
- Operation
- Troubleshooting
- Electrical
- General safety process
- Machine system overview
- Maintenance
- Schematics
- Hydraulics
- Job safety & environmental analysis
- Spare Parts

Test Certificates

Pre delivery operational test certificate.

Prior to delivery, every winch is functionally tested.

Test certificates are available upon request.

Maintenance & Support

Product support, onsite maintenance and spare parts are available and can be arranged by contacting Head Office.

Standard Offer Includes

One hard copy of Operation and Maintenance Manual

One electronic copy (if requested)

Contact Details

Neumann Equipment Head Office

Phone:	Australia:	(07) 5589 9275
	International:	+61 7 5589 9275
Fax:	Australia:	(07) 5589 9273
	International:	+61 7 5589 9273
Email:	equipment@neumann.com.au	
Web:	www.neumannequipment.com.au	

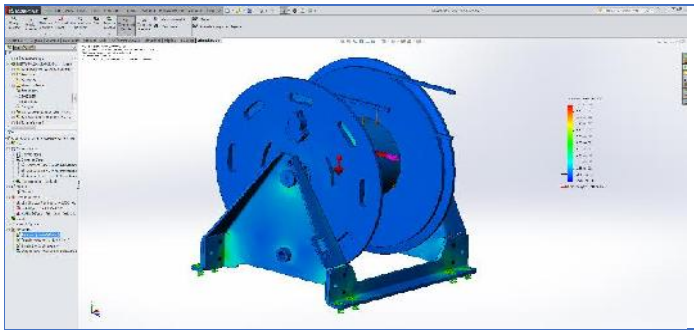
Postal: PO Box 8 Currumbin Queensland, 4223 Australia

Address: Nuban Street Currumbin Queensland, 4223 Australia

Winches

Dredges and Dredging Equipment

Cable Handling Equipment



Design & Engineering Custom Applications

Fabrication and Manufacturing

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