



**NEUMANN** *EQUIPMENT*

# MINING AND INDUSTRIAL WINCHES AND EQUIPMENT



[www.neumannequipment.com.au](http://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.

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.

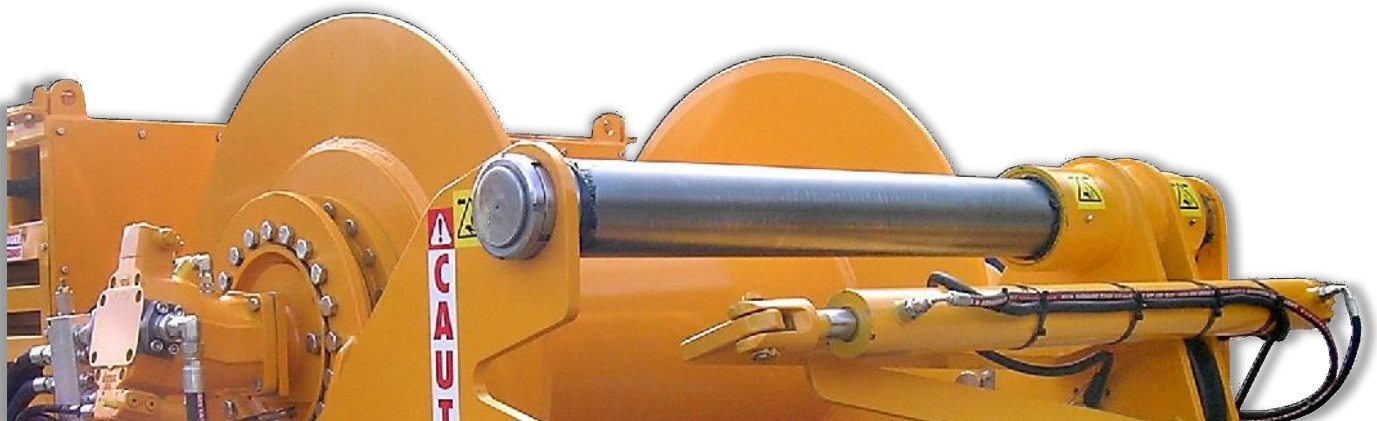
When you are next in the market for quality Mining and Industrial Equipment you cannot go past our range of Australian designed and manufactured products.

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



**SCI QUAL**  
INTERNATIONAL

QUALITY APPROVED TO  
AS/NZS ISO 9001:2008  
REGN. Number 3008





## 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 centre 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 4 to 10 tonne on the top layer;
- Two speed operation;
- Winch base and drum are fabricated from grade 250 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 SPECS.	DHW4000	DHW6000	DHW10000
Top Layer Line Pull (kg) @ Low Speed	4,000	6,000	10,000
Bottom Layer Line Pull (kg) @ Low Speed	6,635	9,963	16,719
Max. Drum Speed (rpm) @ Low/High	10/20	8/12	6/12
Rope Size (Max) (mm)	16	20	24
Drum Width (mm)	1,000	1,000	1,000
Cheek Diameter (mm)	800	1,000	1,200
Drum Capacity (m)	1,000	1,000	1,000
Power/Drive Unit - Engine kW/Pump cc	25/18	38/28	38/45

## Multi-Purpose Winches

Neumann Equipment manufactures a range of Multi-Purpose Winches that range from 0.75 to 20 tonne 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.

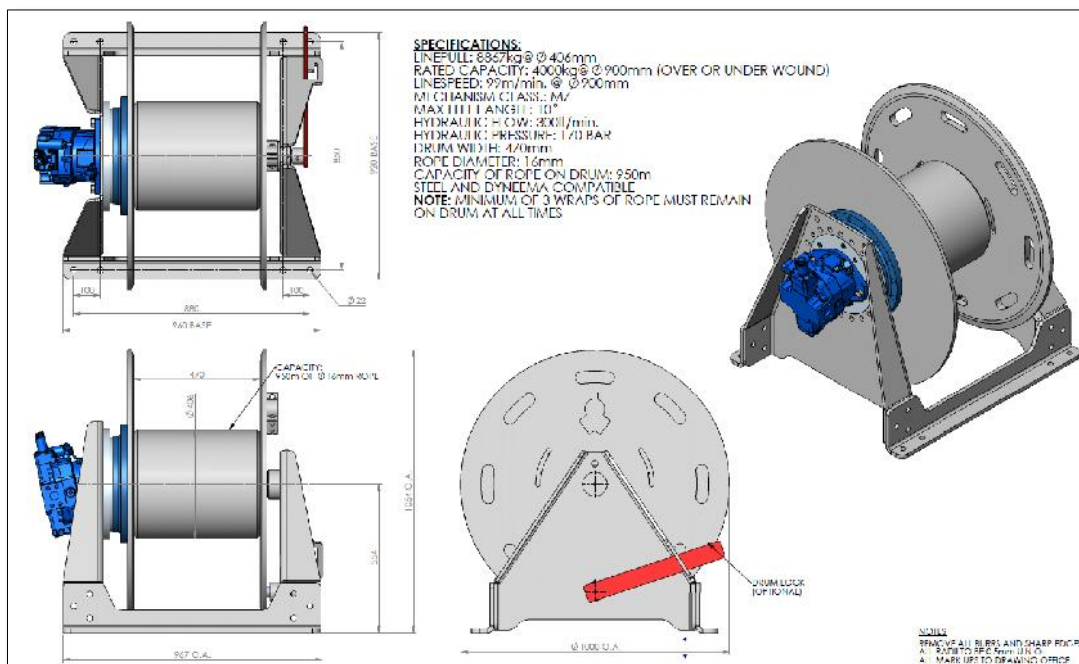
Coupled with a hydraulic powerpack these winches will deliver excellent performance and reliability.

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 0.75 to 20 tonne 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 250 carbon steel;
- Heavy duty industrial protective coating;
- Optional electrically driven units.



Example – MPW400H – 4T Multipurpose Winch (Hydraulic)

MULTI-PURPOSE WINCH SPECIFICATIONS	MPW750H	MPW1200H	MPW2000H
Line Pull – Top Layer (kg)	750	1,200	2,000
Line Pull – Bottom Layer (kg)	2,340	2,860	3,690
Line Speed – Top Layer (m/min)	0 – 45	0 – 45	0 – 94
Line Speed – Bottom Layer (m/min)	0 – 14	0 – 19	0 – 51
Drum Speed (rpm)	0 – 36.7	0 – 35.8	0 – 50
Rope Size (Typical) (mm)	10	10	12
Drum Width (mm)	350	390	400
Drum Capacity (m)	380	410	565
Drive (optional electrical drive)	Hydraulic	Hydraulic	Hydraulic

MULTI-PURPOSE WINCH SPECIFICATIONS	MPW3000H	MPW4000H	MPW6000H
Line Pull – Top Layer (kg)	3,000	4,000	6,000
Line Pull – Bottom Layer (kg)	6,460	8,860	10,635
Line Speed – Top Layer (m/min)	0 – 128	0 – 99	0 – 20
Line Speed – Bottom Layer (m/min)	0 – 59	0 – 45	0 – 11
Drum Speed (rpm)	0 – 58	0 – 35	0 – 7.8
Rope Size (Typical) (mm)	16	16	24
Drum Width (mm)	470	470	560
Drum Capacity (m)	565	945	345
Drive (optional electrical drive)	Hydraulic	Hydraulic	Hydraulic

MULTI-PURPOSE WINCH SPECIFICATIONS	MPW7000H	MPW10000H	MPW20000H
Line Pull – Top Layer (kg)	7,000	10,000	20,000
Line Pull – Bottom Layer (kg)	16,380	14,775	21,920
Line Speed – Top Layer (m/min)	0 – 90	0 – 20	0 – 22
Line Speed – Bottom Layer (m/min)	0 – 38	0 – 14	0 – 20
Drum Speed (rpm)	0 – 30	0 – 10.6	0 – 11.8
Rope Size (Typical) (mm)	16	24	26
Drum Width (mm)	500	700	650
Drum Capacity (m)	1,150	190	45
Drive (optional electrical drive)	Hydraulic	Hydraulic	Hydraulic





## Lifting/Hoisting Winches

Neumann Equipment specialise 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 2 to 20 tonne 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 250 carbon steel;
- Heavy duty industrial protective coating;
- Optional spooling systems: Archimedes screw.

The 2 tonne and 20 tonne 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	LHW13000H	LHW20000H
Line Pull – Top Layer (kg)	2,000	13,000	20,000
Bottom Layer (kg)	3,000	One layer only	21,190
Line Speed – Top Layer (m/min)	0 – 139	0 – 20	0 – 22
Bottom Layer (m/min)	0 – 83	One layer only	0 – 20
Drum Speed (rpm)	0 – 74	0 – 13.2	0 – 11.8
Rope Size (Typical) (mm)	10	26	26
Drum Width (mm)	500	2 x 700	650
Drum Capacity (m)	735	2 x 34	45
Drive (Hydraulic or Electrical)	Hydraulic	Hydraulic	Hydraulic

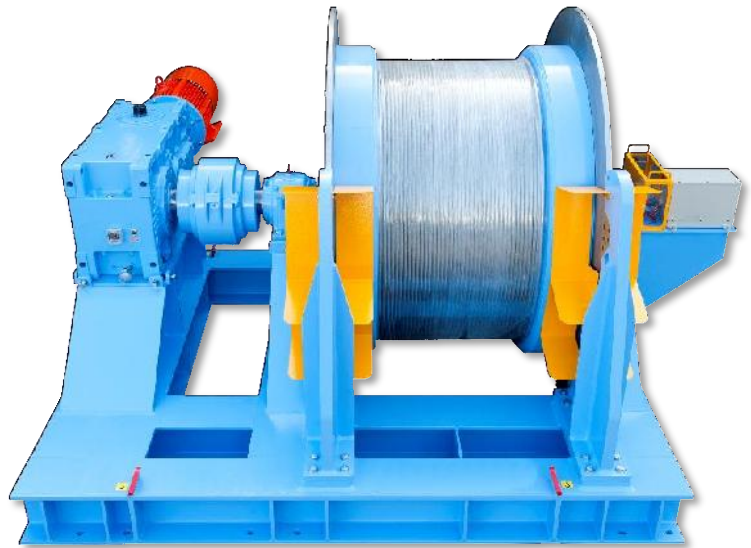


## Man Riding Winches

Neumann Equipment specialise 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 250 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.

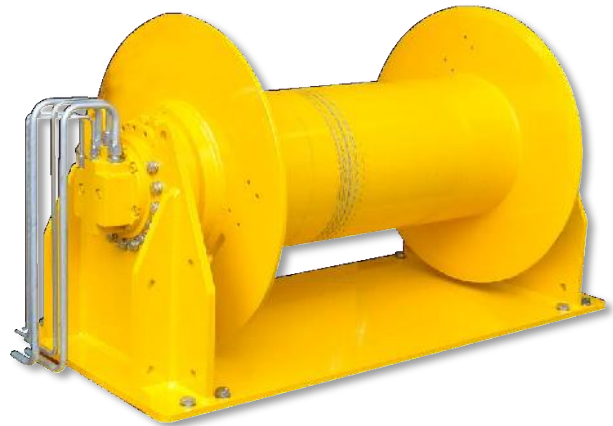
MAN-RIDING/MIN WINDING WINCH SPECIFICATIONS	MRW2500E	MRW3500E
Line Pull – Top Layer (kg)	2,560	3,565
Line Pull – Bottom Layer (kg)	2,560	3,565
Line Speed (m/min)	0 – 90	0 – 240
Drum Speed (rpm)	0 – 90	0 – 102
Rope Size (Typical) (mm)	22	20
Drum Width (mm)	912	690
Drum Capacity (m)	580	760
Drive (Electric 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 4 to 10 tonne on the top layer;
- Maximum line speed of up to 30 metres 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 250 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 (kg)	4,000	6,000	10,000
Line Pull – Bottom Layer (kg)	6,900	10,000	16,700
Line Speed – Top Layer (m/min)	0 – 22	0 – 22	0 – 20
Line Speed – Bottom Layer (m/min)	0 – 13	0 – 13	0 – 12
Drum Speed (rpm)	0 – 10	0 – 8	0 – 6
Rope Size (Typical) (mm)	16	20	24
Drum Width (mm)	1,000	1,000	1,000
Drum Capacity (m)	1,000	995	1,000
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 6 tonnes, with programmable capability from 500kg up to the maximum of 6,000kg.

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 500 – 6,000kg;
- Maximum line speed of 14 metres 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 250 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)		6,000
Line Speed – Max (m/min)		0 – 16
Drum Speed - Capstan (rpm)		0 – 15
Cable Size (Typical) (mm)		16
Capstan Waist Diameter (mm)		340
Engine Power (kW @ rpm)		20 @ 3,600
Fuel Tank Capacity (litres)		80
Hydraulic Pump (cc)		18
Overall Dimensions (L x W x H) (mm)		2,199 x 1,130 x 1,500

## 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 1, 12 and 20 tonnes.

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 250 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 20 tonne Cable Drum Spooler designed to hold and spool electrical cable drums up to 20 tonnes 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 250 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)	1,000	12,000	20,000	20,000
Maximum Drum Width (mm)	1,100	2,000	2,500	2,470
Maximum Drum Diameter (mm)	1,700	3,100	2,650	3,200
Spindle Diameter (mm)	80	120	100	80
Drum Collars & Locking Sleeves (mm)	110	150	150	150
Weight (kg)	375	1,200	1,650	2,520

## 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;
- 500kg, 850kg & 1,250kg line pull, other sizes available upon request;
- 2.2kw 240V Electric Motor;
- Gearbox is the rugged and dependable Bonfiglioli worm drive;
- 100mm, 150mm & 200mm aluminium capstans available;
- Capstan speed of up to 32rpm;
- Maximum line speed of 20 metres per minute (on 500kg line pull and 200mm capstan).



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

PETROL CAPSTAN WINCH SPECIFICATIONS	ECW500E	ECW850E	ECW1250E
Line Pull (kg)	500	850	1,250
Capstan Waist Diameter (mm)	200	150	100
Capstan Speed (rpm)	31.8	31.8	31.8
Line Speed (m/min)	20	16	10
Motor Type	240V CSCR IP55		
Motor Model	GMYL-100L1-4 B3		
Power (kW)	2.2		
Gearbox Type	Bonfig. W110 U 56 P100		
Gearbox Ratio	45.2:1		
Weight – Dry (kg)	50	59	72



## 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 1,000 kg line pull (PCW1000) up to 2,000kg (PCW2000), other sizes available upon request;
- Standard engine is the reliable Launtop 4 stroke engine, Honda motor available upon request;
- Gearbox is the rugged and dependable Bonfiglioli;
- 100mm aluminium capstan standard, other sizes available;
- Capstan speeds of up to 36rpm (PCW2000);
- Maximum line speed of 11.3 metres 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 (kg)	1,000	1,500	2,000
Capstan Waist Diameter (mm)	100	100	100
Capstan Speed (rpm)	0 – 30	0 – 30	0 – 36
Line Speed (m/min)	0 – 10	0 – 10	0 – 11.3
Engine Model (Standard)	LT200	LT240	LT270
Engine Displacement (cc)	196	242	270
Engine Power (kW) (Continuous)	3.66	4.6	5.29
Gearbox Type	Bonfig. WR86	Bonfig. WR110	Bonfig. A50
Gearbox Ratio	120:1	120:1	99.5:1
Weight – Dry (kg)	50	72	131

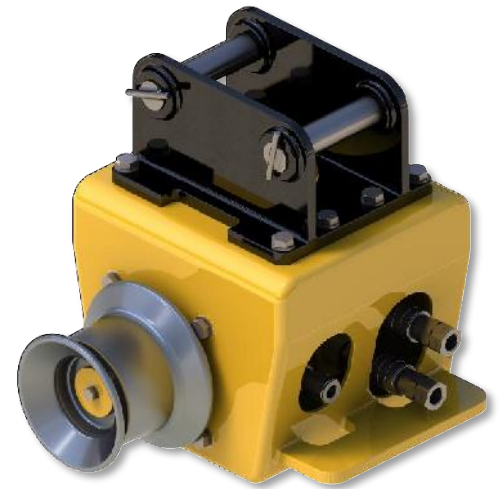
## Quick Hitch Capstan Winches

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.

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 2.0 to 4.0 tonne;
- Typically 15 metres 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.



*Figure 1 - Quick Hitch Capstan shown with optional mount assembly*

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	QHC4000
Rated Line Pull (kg)	2,000	3,000	4,000
Capstan Size (typical) (mm Ø)	160	160	160
Line Speed (typical) (m/min)	0 – 15	0 – 15	0 – 15
Drum Speed (rpm)	0 – 28	0 – 28	0 – 28
Hydraulic Motor Size (cc)	759.6	949.5	1186.8
Weight (kg)	165	180	195

\* Other sizes are also available

## Dredge – Nu Explorer Series

Neumann Equipment manufacture the Nu Explorer Series of 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 mobilise anywhere in the world.

The standard unit has a 194kW Cummins engine providing power to the GIW KSB LCC-M 200-610 pump and hydraulics.

It has the wet slurry pumping capacity of approximately 650m<sup>3</sup>/hr and can dredge to a maximum depth of 6.5metres.

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



For more information refer/request/download the **Nu Explorer** brochure.

NU EXPLORER CSD SPECIFICATIONS	DEX250
Length – Hull/LOA (m)	11.40/17.15
Width (m)	4.38
Depth (m)	1.42
Dry Weight (kg)	23,000
Cutting Depth (m)	6.5
Fuel Capacity (litres)	1,400
Engine - Model	Cummins 6CTA8.3-C
Power/Torque (kW/Nm)	194 kW @2,200 rpm/1,135 Nm @ 1,500 rpm
Transmission – Model/Ratio	Dong-I DTMP-5100/1.93:1
Slurry Pump – Model/Size	GIW KSB LCC-M 200-610/250mm suction,200mm discharge
Power @ Pump kW	164
Pumping Capacity – Total (m <sup>3</sup> /hr)	650
Jetting / Priming Pump – Model/Size	Southern Cross 100x65-315/100mm suction, 65mm discharge
Cutter Wheel – Dia./Speed (mm/rpm)	850/0-30
Power @ Cutter/Cutter Force (kW/kg)	25/1,500



## 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; 1,200 and 1,500, and input power ranges from 100 kW to 600 kW.



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 computerised electro/hydraulic control system with radio telemetry communication and controls, management have access to data recording and reports on daily/hourly operational achievements.

For more information refer/request/download the **Platypus C Series Dredge** brochure.

PLATYPUS C SERIES CSD SPECIFICATIONS	DPC200	DPC250	DPC300
Length – LOA (m)	14.8	17.0	32.7
Length – Pontoons (m)	13.7	13.7	26.0
Width (m)	4.6	5.1	6.1
Depth – Side Pontoons (m)	1.2	1.5	1.5
Dry Weight (tonnes)	30	43	90
Cutting Depth (m)	4	6.5	15
Fuel Capacity (litres)	10,000	10,000	10,000
Frame Size Options (mm)	1,200	1,200-1,500	1,500
CAT Engine Options (or Equivalent)	C9 or C18	C18 or C27	C18 or C27
Slurry Pump Options (mm)	200/150	250/200	300/250
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.

For more information refer/request/download the **Booster Pump** brochure.

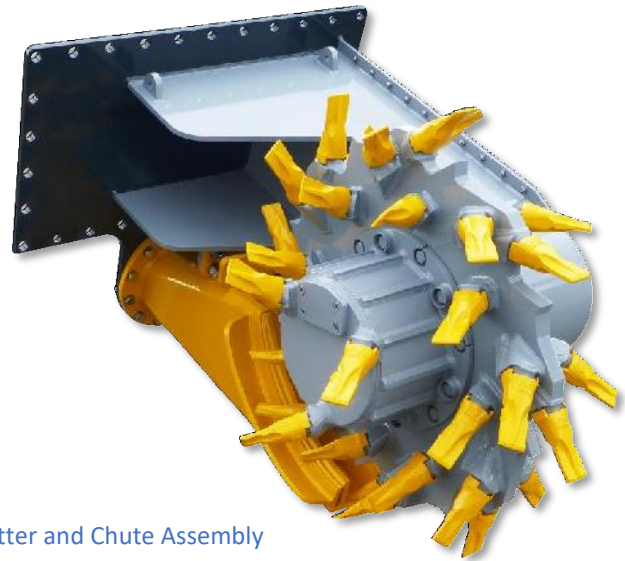
BOOSTER PUMP SPECIFICATIONS	BST200	BST250	BST300
CAT Engine Options (or Equivalent)	C9 or C18	C18 or C27	C18 or C27
Engine Power (kW)	223/447	447/653	447/653
Pump Size Options - Suction (mm)	200/150	250/200	300/250
Pipeline Sizing – ID (mm)	200	250	300
Weight approx. (tonnes)	13.7/14.3	19.8/20.4	20.3/21.0
Length Approx. LOA (m)	5.9/6.1	6.2/6.3	6.3/6.5
Width Approx. WOA (m)	2.8	2.8	2.8
Height Approx. HOA (m)	4.1/4.2	4.3/4.4	4.3/4.4

## 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.



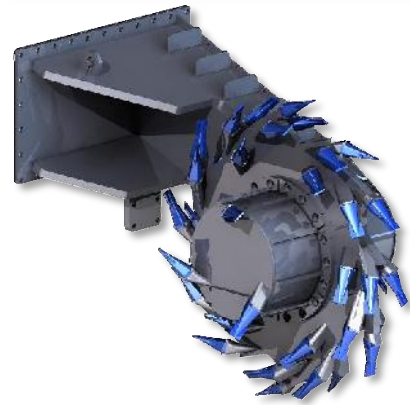
S60HD Dredge Cutter and Chute Assembly



S15 Cutter



S60HD Cutter (no chute)



S120 Cutter

DREDGE CUTTER SPECS.	S15	S30	S30HD	S60	S60HD	S120
Cutter Diameter (mm)	750	930	930	1,200	1,400	1,800
Suction Pipe (mm)	150	150-300	150-300	200-250	250-300	300-450
Mounting Flange	Table "D"	Table "D"	1,360x770	1,360x770	1,360x770	1,360x770
	to suit suction pipe		with separate Table D chute mount to suit			
Max. Bearing Load (kg)	1,000	6,000	6,000	10,000	25,000	25,000
Weight (kg)	250	600	800	1,500	2,000	3,200
Hydraulic Pressure (bar)	125	175	175	175	175	175
Torque (Nm)	1,400	5,000	5,000	12,000	18,000	30,000
Tip Force (kg)	380	1,133	1,133	2,000	2,600	3,500
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 0.75, 2 and 4 tonne 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 250 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.

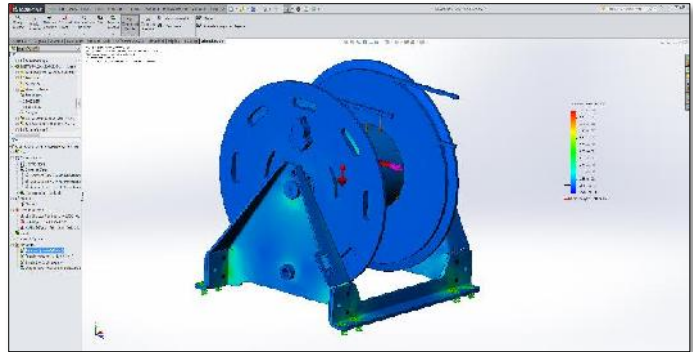
When you're in the market to purchase a new Dredge Winch, you cannot afford to go past these quality Australian made and supported products.

DREDGE WINCH SPECIFICATIONS	DRW750H	DRW2000H	DRW4000H
Line Pull – Top Layer (kg)	750	2,000	4,000
Line Pull – Bottom Layer (kg)	1,385	3,300	8,600
Line Speed – Top Layer (m/min)	0 - 20	0 - 20	0 - 20
Line Speed – Bottom Layer (m/min)	0 - 11	0 - 12	0 - 9
Drum Speed (rpm)	0 - 20.5	0 - 11.8	0 - 9
Rope Size (Typical) (mm)	10	12	16
Drum Width (mm)	200	175	470
Drum Capacity (m)	110	550	550
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 minimised 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:	<a href="mailto:equipment@neumann.com.au">equipment@neumann.com.au</a>	
Web:	<a href="http://www.neumannequipment.com.au">www.neumannequipment.com.au</a>	
Postal:	PO Box 8 Currumbin Queensland, 4223 Australia	
Address:	Nuban Street Currumbin Queensland, 4223 Australia	



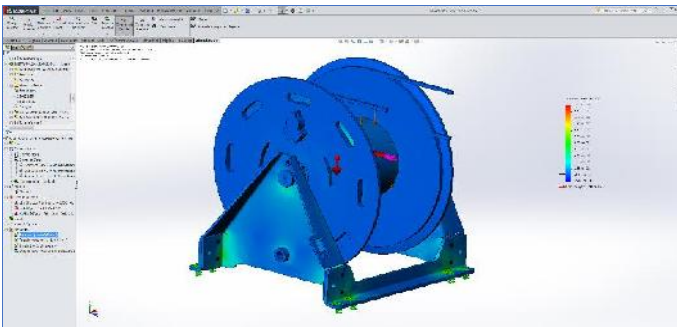
Winches



Dredges and Dredging Equipment



Cable Handling Equipment



Design & Engineering  
Custom Applications



Fabrication and  
Manufacturing





## **NEUMANN** *EQUIPMENT*

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