CAPSTANS
WINDLASSES
DEVIL CLAWS
CHAIN STOPPERS
DECK HARDWARE
ANCHOR ROLLERS
CRANES & DAVITS
ANCHORS & CHAIN
ELECTRIC CONTROLS
SYSTEM ACCESSORIES
CHAIN COMPRESSORS
3D MODELLING CAPABILITIES
COMPLETE ANCHORING SYSTEMS

SINCE 1968 55 YEARS

AUSTRALIAN MADE & OWNED

QUALITY ASSURED JAS-ANZ ISO9001

Image supplied courtesy of Austal Australia

Mega Yacht Equipment

Anchor Winches and Windlasses



Since 1968. Built to last.

For over a century the Muir name has been synonymous with ship building and marine engineering, and for over 55 years Muir has been designing and crafting anchor winches and anchoring systems that are the benchmark for performance, quality and innovation.

Our reputation is built on the back of the hard work of our founder, Robert John Muir, who grew up in the portside suburb of Battery Point, down the road from the "Shipwright's Arms" Hotel. Hailing from a family of seafarers and shipwrights, John was destined from a career in the marine industry, and it was next to his father's boat building business, that he developed the very first Muir anchor winches. The advice from his father, Jock Muir, continues to prove pivotal in building and maintaining the reputation Muir carries to this day:

"MAKE SURE THE WINCH YOU DESIGN AND BUILD IS STRONGER THAN THE DECK IT'S BOLTED DOWN TO."

Our team remain committed to honouring this founding vision in our Tasmanian production facility and we now craft anchoring systems for a wide range of vessels.

From a 5-metre vessel to the world's largest mega yachts, Muir products are requested around the globe and used by leading recreational, mega yacht and commercial maritime brands including Feadship, Luerssen, Incat, Austal, Damen, Moonen, Riviera, Maritimo, and Telwater.

In support of our equipment, our global network of experienced sales managers and service groups combined with a trusted international distribution network, ensures that we can deliver quality anchoring systems and spares to you, no matter what size your vessel is.

To this day, Muir remains an Australian, family owned business, and is the only remaining specialised Anchoring Systems manufacturer.

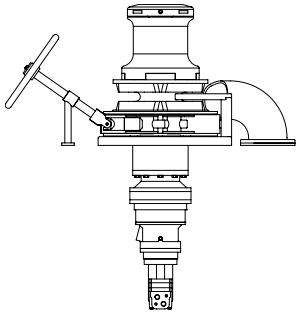
SINCE 1968 · 55 · YEARS

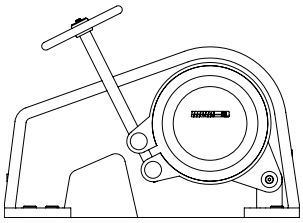
AUSTRALIAN MADE & OWNED

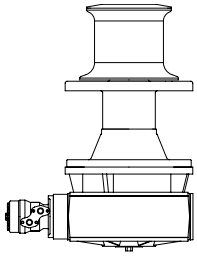
QUALITY ASSURED JAS-ANZ ISO9001




Contents







QUALITY ASSURED JAS-ANZ ISO9001

VERTICAL WINDLASSES – VR/VRC

Vertical windlass models have a main vertical shaft and horizontal gypsy, and are available in two configurations. VRC has a gypsy and independent capstan, whilst the VR has gypsy and low profile top only. The low profile VR is available on all models.

The vertical configuration allows for single and twin installations with the advantage of installing the windlasses in various positions. This facilitates the positioning of anchor pipes and spurling pipes. In some cases it may be preferable to install windlasses closer to the centre line or further apart.

Integral VR/VRC 4500, 6000, 8000, 11000 designs incorporate extended deck plates for the brake band location and integral chain pipe. The windlass and chain pipe are supplied as a complete assembly on one single base, either as single units or in mirror image.

A range of round base units offer flexibility of installing separate chain pipes or chain pipe rollers. A feature of the round base models is the heavy duty chain stripper.

Muir vertical windlass design innovation enables disassembly of the running gear above the deck plate and removal of the drive gear below deck leaving the deck plate and chain pipe/roller intact.

All vertical windlasses have a self-aligning gearbox adaptor that reduces installation time and allows the gearbox and motor to be installed directly onto the windlass drive in any radial position. This alleviates distortion between the deck plate and gearbox flange and a sealed shaft protects the transmission below deck.

Vertical windlasses require less deck space than a horizontal windlass and vertical capstans have operational advantages for mooring purposes due to the radial scope of the lead for mooring lines. For servicing and lubrication all running gear is readily accessible.

Planetary drives are available on vertical models with AC and Hydraulic brake motors fitted, right angle drives are available for all installations throughout the ranges. AC motors require to be supported to the deck structure.

Hydraulic drives are fitted with counter balance valves to prevent runback. Heavy-duty concealed dog clutch drives on larger models ensure positive drive at all times, whilst hand wheels and brake bands to chain gypsies provide infinite control of braking.

Windlasses with round base plates have installation flexibility of rotating brake band and hand wheel in any position.

Up to 180° chain wrap on vertical designs ensures optimum utilisation of the chain gypsy pockets.

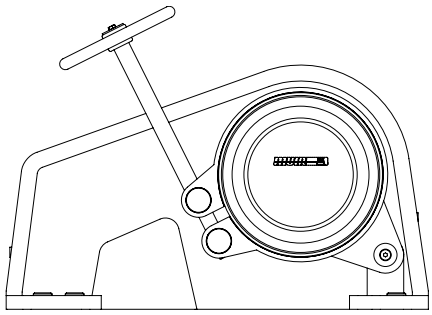
Independent operation of the capstan and gypsy is achieved by declutching the capstan. The full range is available with an extended capstan shaft for split positioning of the gypsy below deck and capstan above deck for mooring and line hauling purposes.

Options - Vertical Windlasses

- Polished bronze finish
- Polished stainless steel finish
- Two-speed motors and variable speed controls
- Inline or 35° universal brake handwheel control
- Increased working speed
- Mirror Image
- Fluted capstans for line grip
- Variable brake band positioning to optimise deck space and handwheel location
- High pressure hydraulic motors standard on larger models and optional on other models
- Hydraulic Power Packs with Electric Control
- Raised bases and plinths for equipment
- Chain pipe with nylon or bronze rollers
- AC motor control cabinets are available for one-speed, two-speed, or variable-speed (VFD) operation.
- Windlass controls
- 700V DC input to cabinet
- Painted and commercial finishes

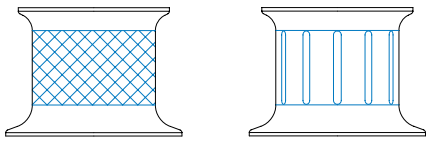
Standard Features

- Single Speed Reversible motor
- Independent operation of gypsy and capstan
- Easy servicing: disassemble from top and bottom without disturbing deck plate fastenings
- Chain pipe
- Corrosion resistant construction
- Knurled or Fluted capstan for line grip
- High tensile stainless steel drive shaft
- Gearbox and motor can be rotated to fit confined space below deck
- Heavy duty totally sealed high efficiency in line or right angle gearbox
- Dog clutch (except 4000 / 4500) and clutch handle
- Brake band and brake handle
- AC torque limiter supplied with all anchor windlass models from 6000 and above windlasses (in special cases the torque limiter may not be required when variable frequency drives are installed (VFD'S)
- ISO standard gypsy design for smooth operation
- Off - the shelf gearboxes and motors for readily available parts
- Total project design retention for future supply of spare parts



Options - Horizontal Windlasses

- White epoxy enamel housing with polished bronze gypsy and capstan
- White epoxy enamel housing with polished stainless steel gypsy and capstan
- Twin gypsies
- Twin capstans
- Fluted capstan for line grip
- Vertical capstans
- 2 speed motor or variable speed controls
- Protective weatherproof cover
- Increased working speed
- High pressure motors available on request
- Various colours available for housing finish
- Hydraulic Power Packs with Electric Control
- AC motor control cabinets are available for one-speed, two-speed, or variable-speed (VFD) operation.
- 700V DC 690V AC options



Options - Capstans

- Fluted Capstan for line grip
- Polished bronze finish
- Polished stainless steel finish
- Tall Drum models
- 2 speed motors and variable speed controls
- Increased working speed
- Raised bases and plinths for capstans
- High pressure motors available on request and standard on some larger models
- Hydraulic Power Packs with Electric Control
- AC motor control cabinets are available for one-speed, two-speed, or variable-speed (VFD) operation.
- Integrated mooring bollard
- 700V DC/690V AC options

HORIZONTAL WINDLASSES - HR

Horizontal windlasses have the main drive shaft with single or dual chain gypsies and capstans driving through a single gear drive. This drive mechanism is totally enclosed in the windlass casing above deck, which is an advantage when space below deck is at a premium.

A horizontal windlass gypsy increases the height of fall of the chain into the chain locker where depth may be critical. Positioning of the gypsy and chain pipe requires the location of the horizontal windlass above the chain-locker and the lead from the bow roller or hawser pipe determines the location.

Gypsy centres to windlass or vessel centre line can not be varied. All running gear can be serviced and lubricated without interfering with the windlass casing or chain pipes. Independent operation of capstan(s) and gypsies by declutching the drive. Operation of the horizontal capstan in the standing position for mooring and line handling can be advantageous.

Horizontal windlass casings are fabricated SS 316 with white gloss finish. All Muir horizontal windlasses have heavy-duty clutch drives with handwheel and brake bands to gypsies for infinite control of braking.

A vertical capstan option on top of the windlass can facilitate mooring and line handling when horizontal capstans can not be fitted due to limited deck space.

Standard Features

- Single capstan to port, gypsy to starboard
- Reversible motor
- Independent operation of gypsy and capstan
- Heavy Duty totally sealed gearbox with ground worm drive and tapered roller bearings in oil bath
- All lubrication points are external
- White epoxy enamel housing with chrome bronze or SS 316 gypsy and capstan.
- Knurled capstan for line grip
- Stainless steel shaft (High tensile)
- Dog Clutch and clutch handles on models 6000 and above
- Brake band and brake handles polished 316 stainless steel
- Chain pipes
- Chrome bronze or SS 316 gypsy and capstan

NOTE: Maximise angle of chain wrap up to 180° to improve windlass performance
Minimum wrap is 120°

VERTICAL MOORING AND DOCKING CAPSTANS - VC

Muir capstans provide reliable and heavy duty operation for mooring and docking. Usually located on the aft deck and amidships to assist in the mooring or docking of the yacht, they can be operated by remote control or foot switches for hands free operation.

Capstans can be supplied with inline or 90° gear drives in hydraulic or electric power for the most compact installation.

Capstans can be serviced with the deck plate intact from top and bottom side. Capstan selection should be considered with warping line sizes and flexibility of warp.

Standard features

- Reversible motor
- Easy servicing: disassemble from top and bottom without disturbing deck plate fastenings
- Chromed bronze or 316L polished stainless steel
- Knurled capstan for extra line grip
- Large capstan drums for increased line hold
- Stainless steel drive shaft
- Gearbox can be rotated to fit confined space below deck
- Heavy duty totally sealed high efficiency in line or right angle planetary drive gears on medium to larger models

IMPORTANT:

KW Power requirements: Power may be increased if required for special applications, pulls are indicated using motor kW sizes as in the catalogue specification.

On both windlasses and capstans it is advisable to maximise KW power on electric drives to optimise functionality, and to prevent the circuit breaker tripping under heavy load.

KW power requirements - may vary between planetary worm and gear drives.

Starting loads: the design of the preferred starting system is important, and it should be noted that the vessels generating capacity and requirements should be able to start the windlasses under load.

Mooring Capstans: Selection and sizing needs to consider high profile, large or heavy displacement craft and high wind conditions to be encountered while docking.

Model Numbers: Product model numbers are not necessarily indicative of the lift capacity.

CLASSIFICATION PERFORMANCE AND APPROVAL:

Classification Societies require a minimum speed of 9 metres/minute and Muir designs can be supplied with optional two-speed AC electric systems or variable speed drives (VFD's) for variable speed ranges generally up to 20 metres/minute in high speed.

Muir build to specific classification society requirements including ABS, LRS, DNV, NKK, BV, K.R, RINA, RRR, RMSR and CCS. All Muir equipment meets international standards including MCA and USL codes and CE

Requirements for electrical components. Muir recommend the windlass should have the capacity (pull) to retrieve all of the anchor and chain in a vertical lift with the anchor clear of the bottom.

We strongly recommend contacting your local Muir agent or Muir head office regarding specific classification requirements prior to selecting a windlass or mooring capstan model.

TECHNICAL INFORMATION

Muir has adopted the corporate policy of manufacturing and selling products which have the recognised standard of quality that satisfies customers throughout the effective life span of the product. It is therefore an essential requirement of this stipulated policy for Muir to produce and supply its customers with products which are suitable for their intended purpose, and which are in conformity with the relevant and agreed specification or contract.

The procedures outlined in our ISO9001 quality assurance manual describe how the quality system is designed to ensure that customer requirements are recognised and that consistent control of these requirements is established, implemented and maintained. Strict adherence to the policy stated above is a requirement of every aspect at Muir.

3D and AutoCAD drawings are available as digital files.

Running gear is bronze, aluminium bronze or 316L stainless steel and the main drive shaft, brake spindle, handwheels and fastenings are stainless steel.

On vertical models motor drives and gears below deck are finished in white gloss. Horizontal models have the motor and gearbox enclosed above deck.

Brake design on some models may not require use of chain stoppers or where distance between spurling pipe and gypsy is tight, however a heavy duty devil claw and snubber line arrangement must be used to eliminate loads off the windlass drive.

Heaters and thermistors are optional on AC motors.

Chain Gypsies are available to suit ISO, DIN 766 and Studlink marine chains. Custom designed windlasses for specialised installations can be supplied on request.

On placing an order we require a chain sample, including joining links and kenter shackles (if they are to be accommodated), so they can be matched to the chain gypsy and ensure correct fit.

Larger windlasses are mainly manufactured from stainless steel in polished or satin finishes.

ABBREVIATIONS

DC	Direct Current	**lb**	Pound
AC	Alternating Current	**kg**	Kilogram
HYD	Hydraulic	**Min**	Minute
gal	Gallons (US)	**m**	Metre
lt	Litres	**mm**	Millimetre
MPa	Megapascal	**"**	Inch
PSI	Pounds per square inch	**' / ft**	Feet

Displacement, Length, Type of Vessel (Motor Boat or Sail Yacht, Heavy or Light Displacement etc) and Windage of a vessel must be taken into consideration when selecting a windlass, anchor and chain. The particular classification societies equipment number for the particular vessel is also very important as it stipulates the recommended chain size (and length), anchor åeight and other important information than needs to be considered. In addition, the vessels proposed use is important as it will differ depending on the application (short cruising in sheltered waters to extensive global cruising with exposure to all types of anchoring conditions).

ENVIRONMENTAL COMMITMENT STATEMENT

At Muir Anchoring Systems, we are deeply committed to sustainability and environmental stewardship. Our dedication to protecting our planet is reflected in every aspect of our business operations. Here's how we demonstrate this commitment:

1. **Renewable Energy**: We proudly source **100% of our energy** from renewable sources through the Tasmanian energy network. By harnessing the power of wind, water, and sun, we minimize our carbon footprint and contribute to a cleaner energy grid.
2. **Solar Power**: Our commitment extends beyond the grid. Our headquarters features a state-of-the art **rooftop solar array** that generates clean electricity. This solar installation not only powers our facility but also feeds surplus energy back into the grid.
3. **Material Recycling**: We meticulously sort and recycle a **majority of our scrap materials** generated during our manufacturing processes. By doing so, we reduce waste and promote circular economy principles.
4. **Component Reuse and Recycling**: Sustainability is about more than just recycling; it's also about reusing valuable resources. At Muir, we **reuse and recycle returned second-hand components** whenever possible. By extending the lifespan of these components, we minimize waste and conserve raw materials.
5. **Energy-Efficient Drivetrains**: Our commitment to efficiency extends to the vessels that use our anchoring and mooring systems. We collaborate with shipbuilders and yacht manufacturers to integrate high-efficiency drivetrains. These advanced propulsion systems reduce fuel consumption and emissions, ensuring a greener maritime industry.

Reducing Embodied Energy: Our focus on sustainability not only benefits the environment but also has a positive impact on the **embodied energy** within our components. By reusing materials and minimizing waste, we decrease the energy required to produce new components. This reduction in embodied energy contributes to a more sustainable product lifecycle.

Ongoing Energy Consumption: Beyond the initial manufacturing phase, our energy-efficient systems continue to operate with minimal energy consumption. Whether it's our anchoring solutions or mooring systems, we prioritize designs that optimize energy usage, benefiting both our customers and the environment.

By choosing Muir, you 're not only investing in topquality anchoring and mooring systems but also supporting a company that prioritizes the health of our planet. Together, we sail toward a more sustainable future.

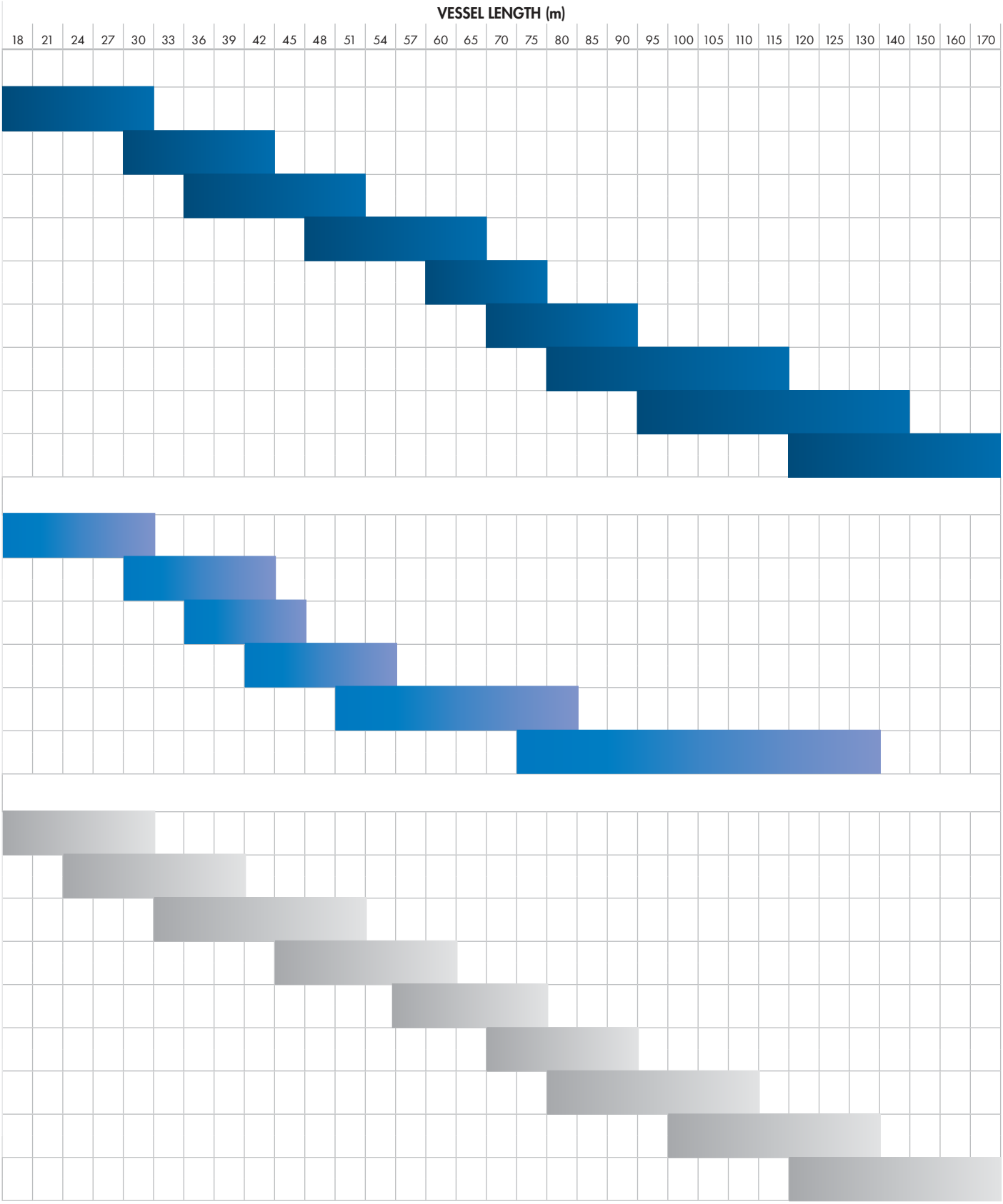
For more information about Muir Anchoring Systems and our commitment to environmental responsibility, please visit our official website.

MEGA WINDLASS SELECTION GUIDE

MODEL			STUD CHAIN SIZE (mm)														
			12.5	14	16	17.5	19	20.5	22	24	26	28	30	32	34	36	38	+
Vertical Windlasses																		
VR/VRC 4500/5000	Page 8–9	U2	●	●														
		U3	●															
VR/VRC 6000	Page 10–11	U2	●	●	●													
		U3	●	●														
VR/VRC 8000/11000	Page 12–15	U2			●	●	●	●	●									
		U3			●	●	●											
VR/VRC 13000/15000	Page 16–19	U2				●	●	●	●	●	●							
		U3				●	●	●	●	●								
VR/VRC 18000	Page 20–21	U2								●	●	●						
		U3								●								
VR/VRC 20000/21000	Page 22–23	U2									●	●	●	●				
		U3									●	●	●					
VR/VRC 22000/23000	Page 24–25	U2										●	●	●	●	●	●	
		U3										●	●	●	●			
VR/VRC 24000/26000	Page 26–27	U2														●	●	●
		U3														●	●	●
VR/VRC 32000/40000	On Request	U2																●
		U3																●
Horizontal Windlasses																		
HR 4500/5000 (SGC 0)	Page 28		●	●														
HR 6000 (SGC 1)	Page 29	U2	●	●	●													
		U3	●	●														
HR 8000 (SGC 2)	Page 30	U2			●	●	●											
		U3			●	●												
HR 11000 (SGC 3)	Page 31	U2			●	●	●	●										
		U3			●	●	●											
HR 15000 (SGC 4)	Page 32	U2						●	●	●	●							
		U3					●	●	●	●								
HR 22000+ (SGC 5+)	Page 33	U2									●	●	●	●	●	●	●	●
		U3									●	●	●	●	●	●	●	●
Powered Capstans																		
VC 3500	Page 34																	
VC 4500	Page 34																	
VC 6000	Page 35																	
VC 8000/11000	Page 36																	
VC 13000/15000	Page 37																	
VC 18000	Page 38																	
VC 20000	Page 39																	
VC 22000/24000	Page 40-41																	
VC 26000/32000	On Request																	

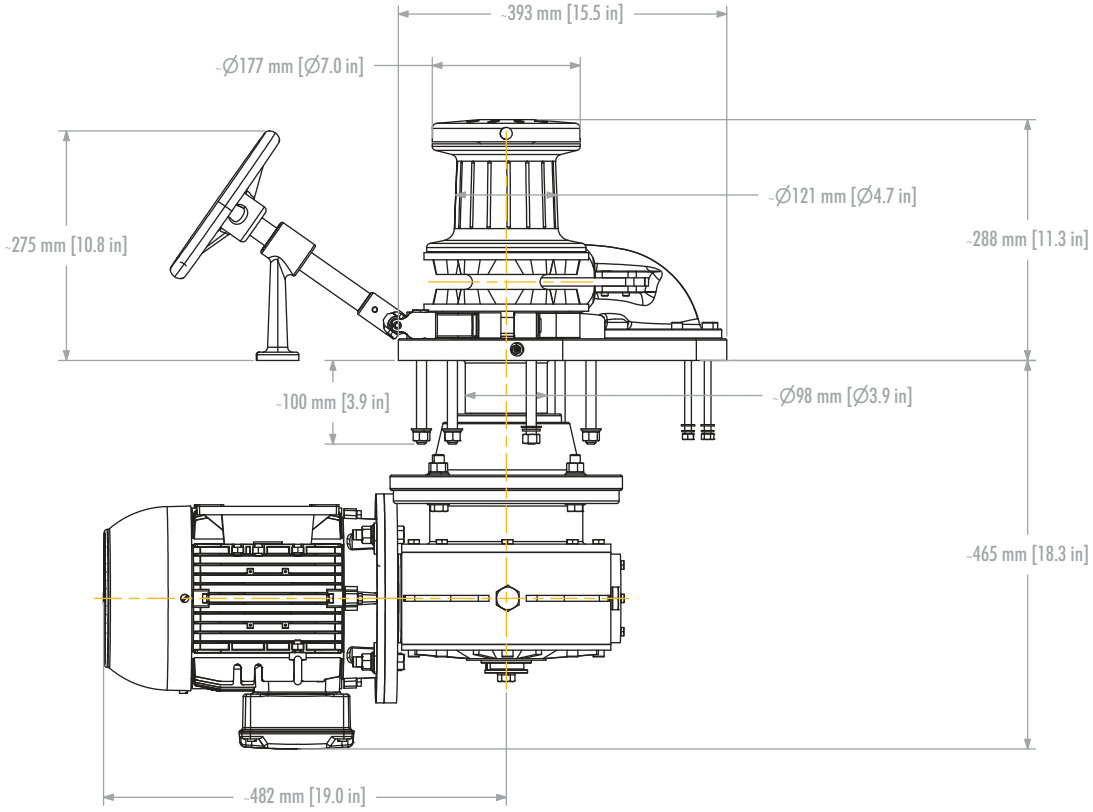
MUIR RESERVES THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE, AND THIS CATALOGUE SHOULD NOT BE USED FOR INSTALLATION PURPOSES.

SPECS IN CATALOGUE ARE INDICATIVE ONLY AND MAY VARY FOR A SPECIFIC PROJECT.



VR/VRC **4500**

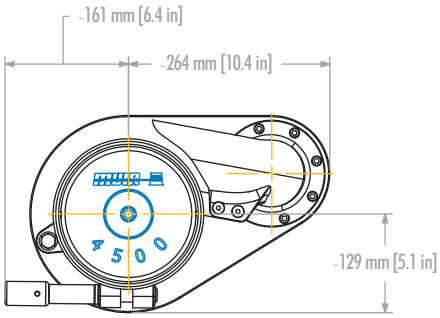
Vertical Windlass



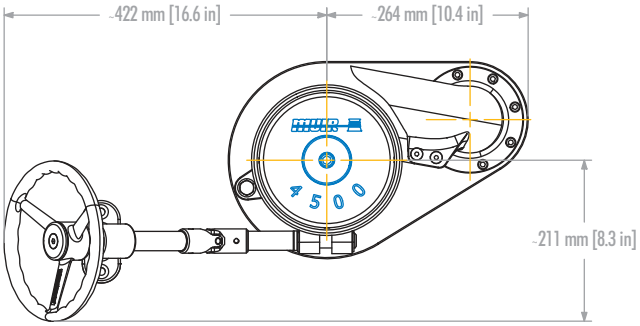
PERFORMANCE CRITERIA

MODEL	VRC4500	VRC4500	VRC4500	VRC4500
Maximum Pull (kg/lb)	**2300** / 5060	**2300** / 5060	**2300** / 5060	**2300** / 5060
Continuous Pull (kg/lb)	**950** / 2090	**1050** / 2310	**1050** / 2310	**1600** / 3520
Recommended Minimum Speed (m/pmin - f/pmin)	**14** / 46	**10** / 33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66	**20** / 66
Power Supply	**24VDC**	**3PH / 50HZ**	**3PH / 60HZ**	**HYDRAULIC**
Input Power (kW)	3/3.5	4	4	
Hydraulic Flow (l/pmin-USgpm)				**26** / 6.9
Maximum Flow (l/pmin-USgpm)				**52** / 13.8
Pressure (bar/PSI)				**175** / 2537
Maximum Pressure (bar/PSI)				**200** / 2900
Chain Size				
Short link up to	**16mm** / 5/8"	**16mm** / 5/8"	**16mm** / 5/8"	**16mm** / 5/8"
Stud link up to	**14mm** U2/ **12.5mm** U3	**14mm** U2/ **12.5mm** U3	**14mm** U2/ **12.5mm** U3	**14mm** U2/ **12.5mm** U3
Brake Size	**150mm** / 6"	**150mm** / 6"	**150mm** / 6"	**150mm** / 6"
Average Weight (kg/lb)	**125** / 275	**155** / 341	**155** / 341	**113** / 248
(Note - Deduct 2kg / 4.4lb for VR models)				

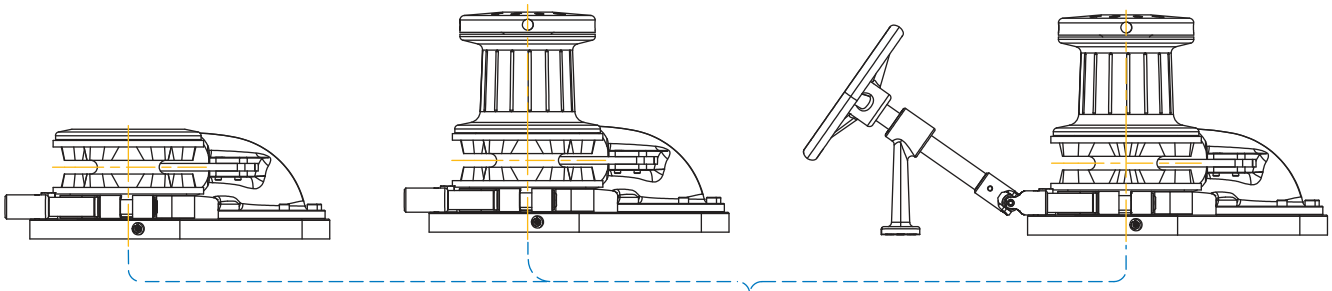
VR/VRC **4500**
Vertical Windlass



Integral Base Standard Brake with Chain Pipe
*Roundbase option available for extra cost



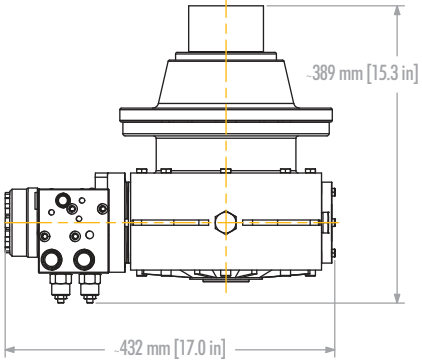
Integral Base 35º Brake with Handwheel and Chain Pipe
*Roundbase option available for extra cost



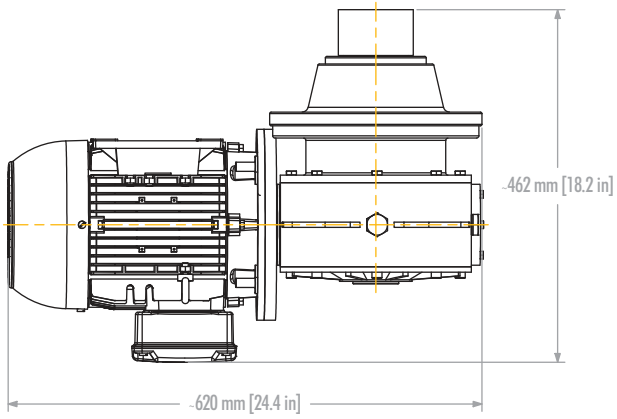
VR Low Profile Integral Base Standard Brake

VRC Integral Base Standard Brake

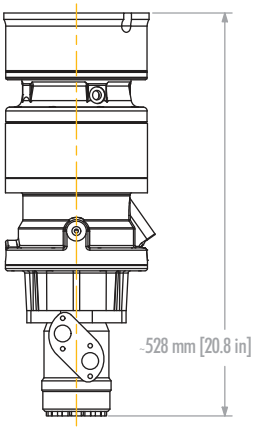
VRC Integral Base 35º Brake/Handwheel



Right Angle Hydraulic Worm Drive



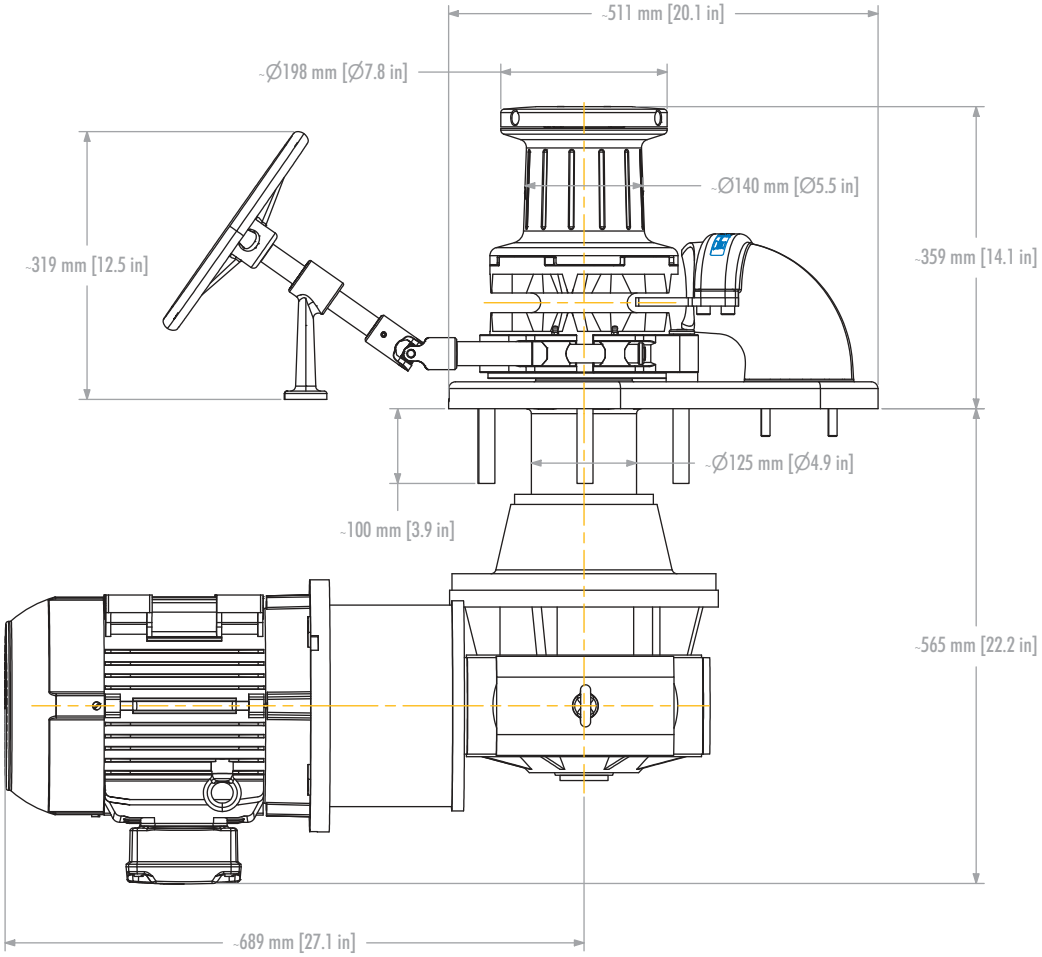
Right Angle Electric Worm Drive



Inline Hydraulic Planatary Drive
*option available for extra cost

VR/VRC **6000**

Vertical Windlass

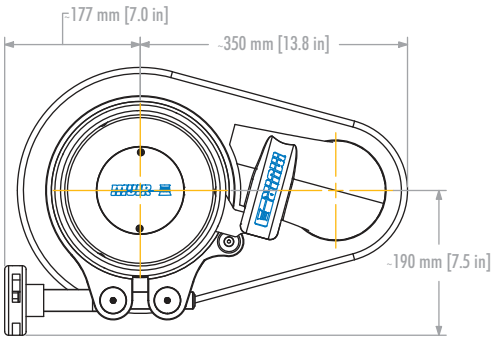


PERFORMANCE CRITERIA

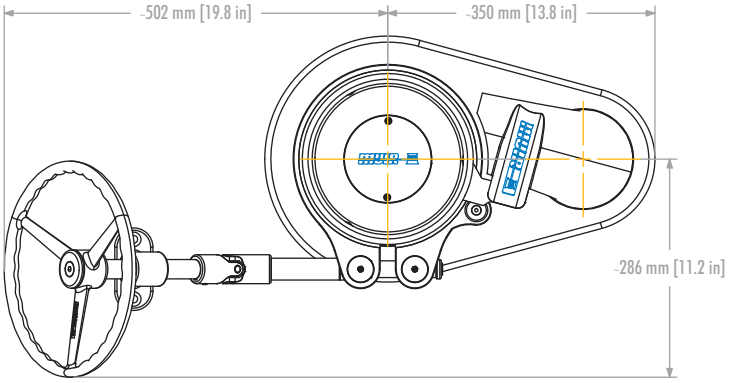
MODEL	VRC6000	VRC6000	VRC6000	VRC6000
Maximum Pull (kg/lb)	**2600** / 5720	**2900** / 6380	**2900** / 6380	**2900** / 6380
Continuous Pull (kg/lb)	**1300** / 2860	**1430** / 3146	**1430** / 3146	**2138** / 4703
Recommended Minimum Speed (m/pmin - f/pmin)	**15** / 50	**11** / 36	**14** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**22** / 72	**22** / 72	**22** / 72	**20**/66
Power Supply	**24 VOLT**	**3PH / 50HZ**	**3PH / 60HZ**	**HYDRAULIC**
Input Power (kW)	3.5	5.5	5.5	
Hydraulic Flow (l/pmin-USgpm)				**28** / 7.4
Maximum Flow (l/pmin-USgpm)				**56** / 14.8
Pressure (bar/PSI)				**175** / 2537
Maximum Pressure (bar/PSI)				**200** / 2900
Chain Size				
Short link up to	**16mm** / 5/8"	**16mm** / 5/8"	**16mm** / 5/8"	**16mm** / 5/8"
Stud link up to	**16mm** U2/ **14mm** U2	**16mm** U2/ **14mm** U2	**16mm** U2/ **14mm** U2	**16mm** U2/ **14mm** U2
Brake Size	**230mm** / 9"	**230mm** / 9"	**230mm** / 9"	**230mm** / 9"
Average Weight (kg/lb)	**245** / 539	**245** / 539	**245** / 539	**176** / 387
(Note - Deduct 2kg / 4.4lb for VR models)				

High Pressure 240 BAR
3600PSI optional

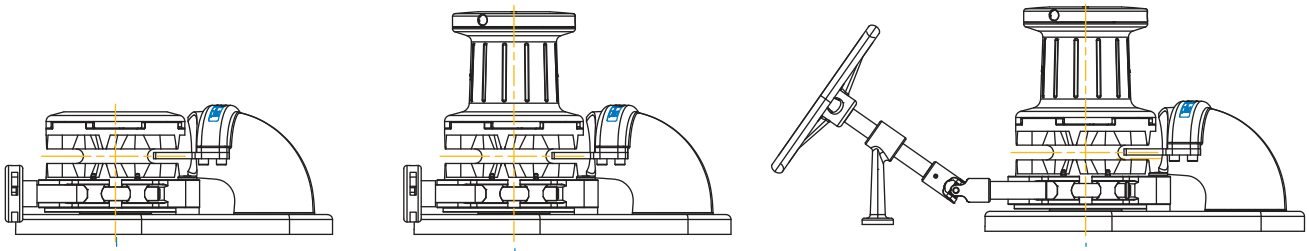
VR/VRC **6000**
Vertical Windlass



Integral Base Standard Brake with Chain Pipe
*Roundbase option available for extra cost



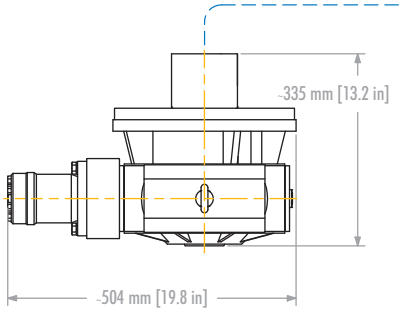
Integral Base 35º Brake with Handwheel and Chain Pipe
*Roundbase option available for extra cost



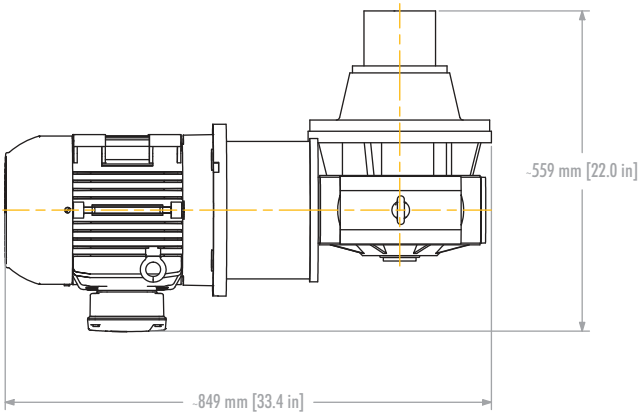
VR Low Profile Integral Base Standard Brake

VRC Integral Base Standard Brake

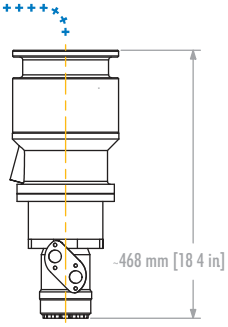
VRC Integral Base 35º Brake/Handwheel



Right Angle Hydraulic Worm Drive



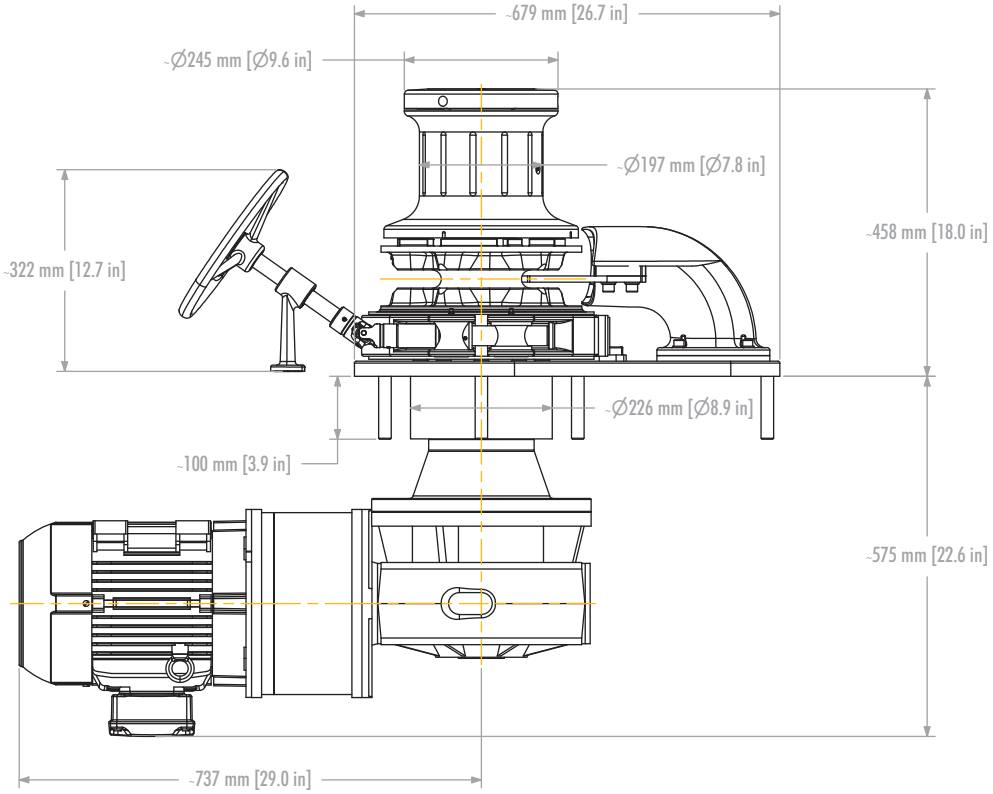
Right Angle Electric Worm Drive
*Right angle planatary drive available



Inline Hydraulic Planatary Drive
*option available for extra cost

VR/VRC **8000**

Vertical Windlass

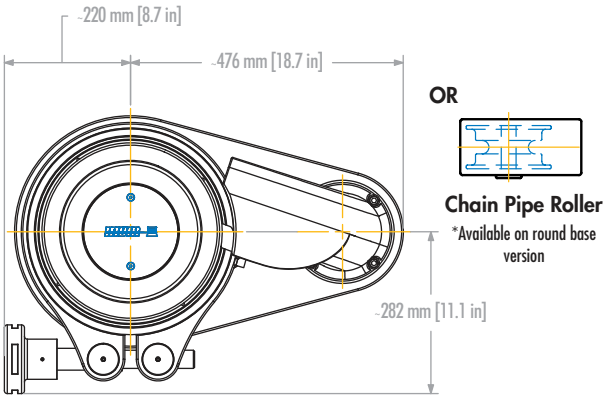


PERFORMANCE CRITERIA

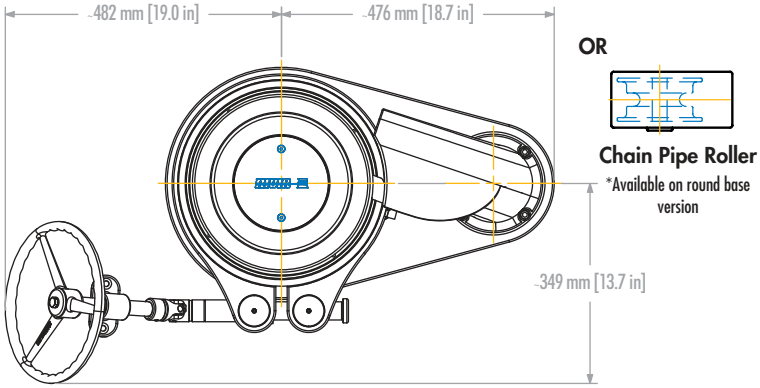
MODEL	VRC8000	VRC8000	VRC8000
Maximum Pull (kg/lb)	**3800** / 8360	**3800** / 8360	**3800** / 8360
Continuous Pull (kg/lb)	**2200** / 4840	**2200** / 4840	**2900** / 6380
Recommended Minimum Speed (m/pmin - f/pmin)	**10** / 33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66
Power Supply	**3PH / 50HZ**	**3PH / 60HZ**	**HYDRAULIC**
Input Power (kW)	*5.5*	*5.5*	
Hydraulic Flow (l/pmin-USgpm)			**28** / 7.4
Maximum Flow (l/pmin-USgpm)			**56** / 14.8
Pressure (bar/PSI)			**175** / 2537
Maximum Pressure (bar/PSI)			**200** / 2900
Chain Size			
Short link up to	**19mm**	**19mm**	**19mm**
Stud link up to	**22mm** U2/**19mm** U3	**22mm** U2/**19mm** U3	**22mm** U2/**19mm** U3
Brake Size	**356** / 14	**356** / 14	**356** / 14
Average Weight (kg/lb)	**325** / 715	**325** / 715	**270** / 594

High Pressure 240 BAR 3600PSI optional

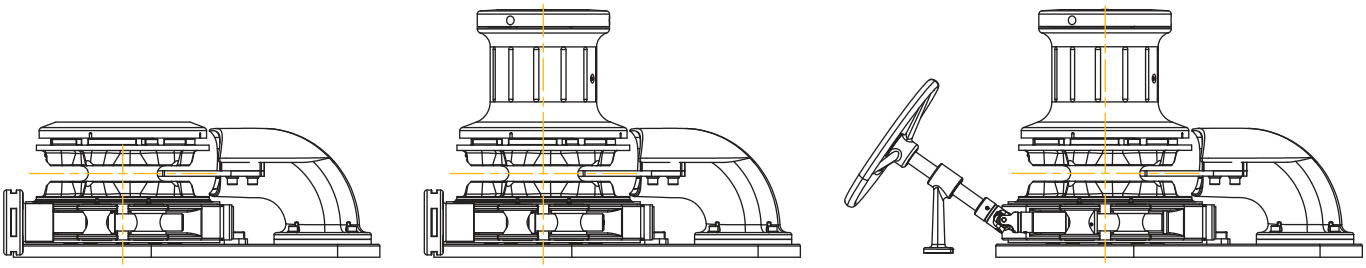
VR/VRC **8000**
Vertical Windlass



Integral Base Standard Brake with Chain Pipe
*Roundbase option available for extra cost



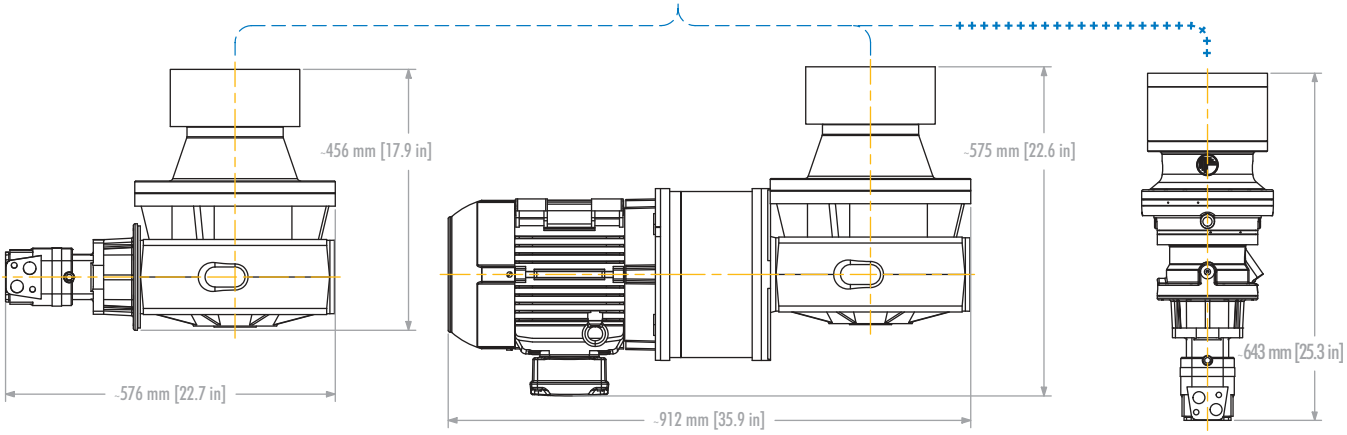
Integral Base 35º Brake with Handwheel and Chain Pipe
*Roundbase option available for extra cost



VR Low Profile Integral Base Standard Brake

VRC Integral Base Standard Brake

VRC Integral Base 35º Brake/Handwheel

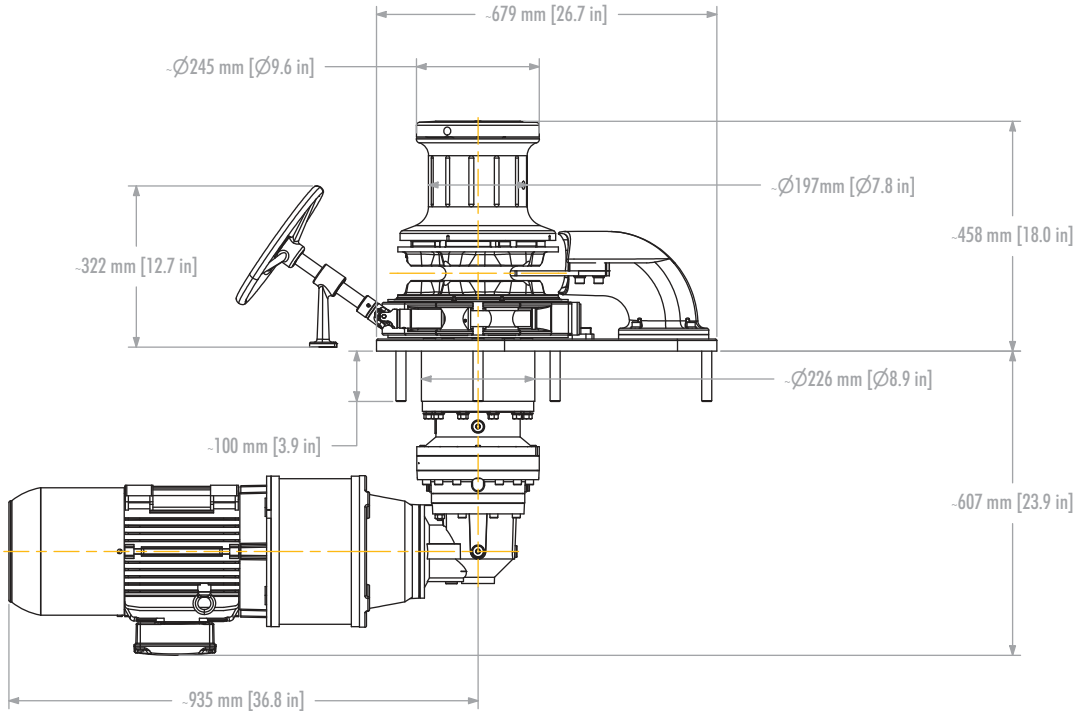


Right Angle Hydraulic Worm Drive

Right Angle Electric Worm Drive
*Right angle planatary drive available

Inline Hydraulic Planatary Drive
*option available for extra cost

VR/VRC 11000
Vertical Windlass

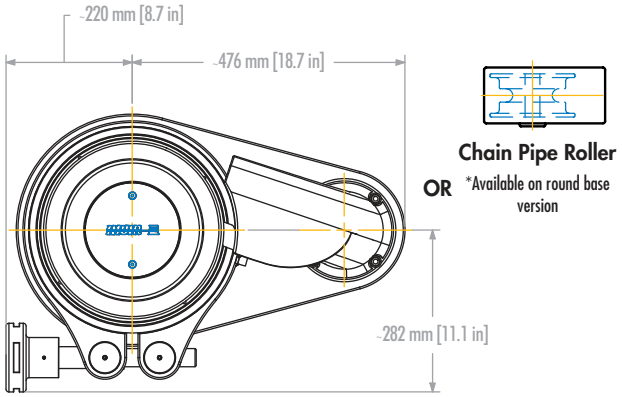


PERFORMANCE CRITERIA

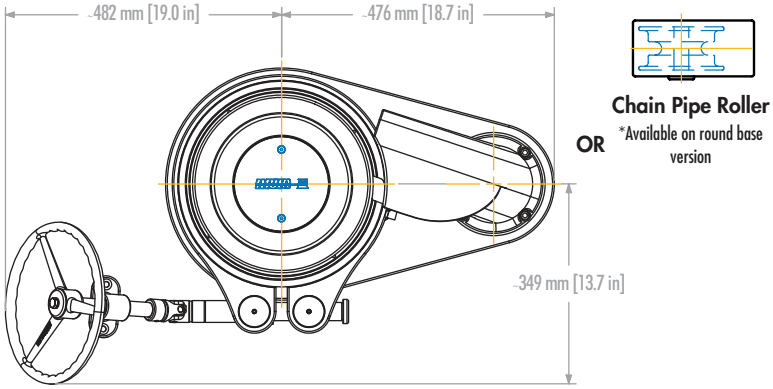
MODEL	VRC11000	VRC11000	VRC11000
Maximum Pull (kg/lb)	**5000** / 11000	**5000** / 11000	**5000** / 11000
Continuous Pull (kg/lb)	**2600** / 5720	**2600** / 5720	**3850** / 8470
Recommended Minimum Speed (m/pmin - f/pmin)	**10** / 33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66
Power Supply	**3PH / 50HZ**	**3PH / 60HZ**	**HYDRAULIC**
Input Power (kW)	7.5	7.5	
Hydraulic Flow (l/pmin-USgpm)			**30** / 7.9
Maximum Flow (l/pmin-USgpm)			**60** / 15.8
Pressure (bar/PSI)			**175** / 2537
Maximum Pressure (bar/PSI)			**200** / 2900
Chain Size			
Short link up to	**22mm**	**22mm**	**22mm**
Stud link up to	**22mm** U2/**19mm** U3	**22mm** U2/**19mm** U3	**22mm** U2/**19mm** U3
Brake Size	**356** / 14	**356** / 14	**356** / 14
Average Weight (kg/lb)	**403** / 886	**403** / 886	**315** / 693

High Pressure 240 BAR 3600PSI optional

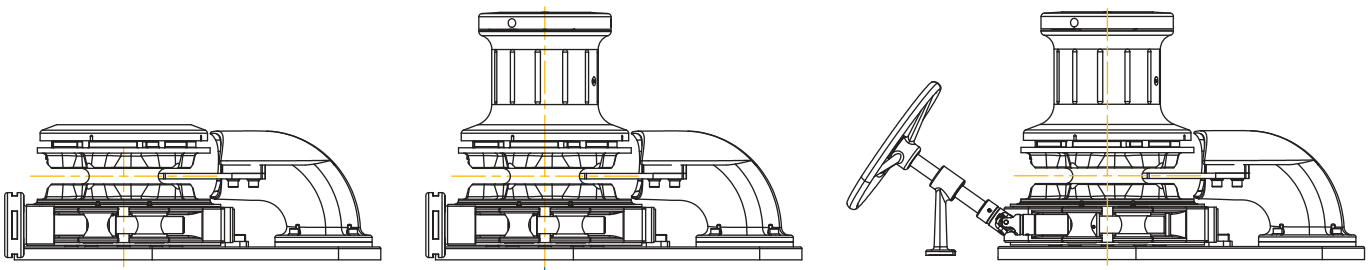
VR/VRC 11000
Vertical Windlass



Integral Base Standard Brake with Chain Pipe
*Roundbase option available for extra cost



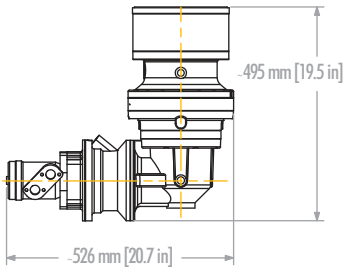
Integral Base 35º Brake with Handwheel and Chain Pipe
*Roundbase option available for extra cost



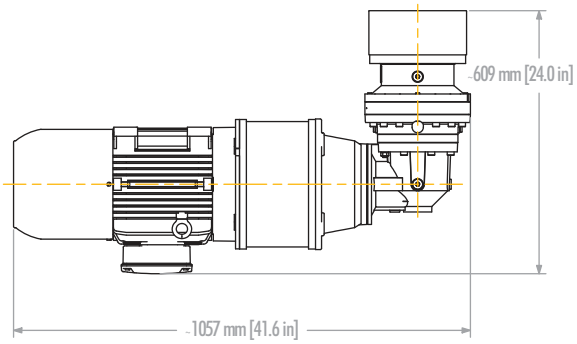
VR Low Profile Integral Base Standard Brake

VRC Integral Base Standard Brake

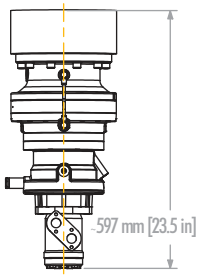
VRC Integral Base 35º Brake/Handwheel



Right Angle Hydraulic Planatary Drive

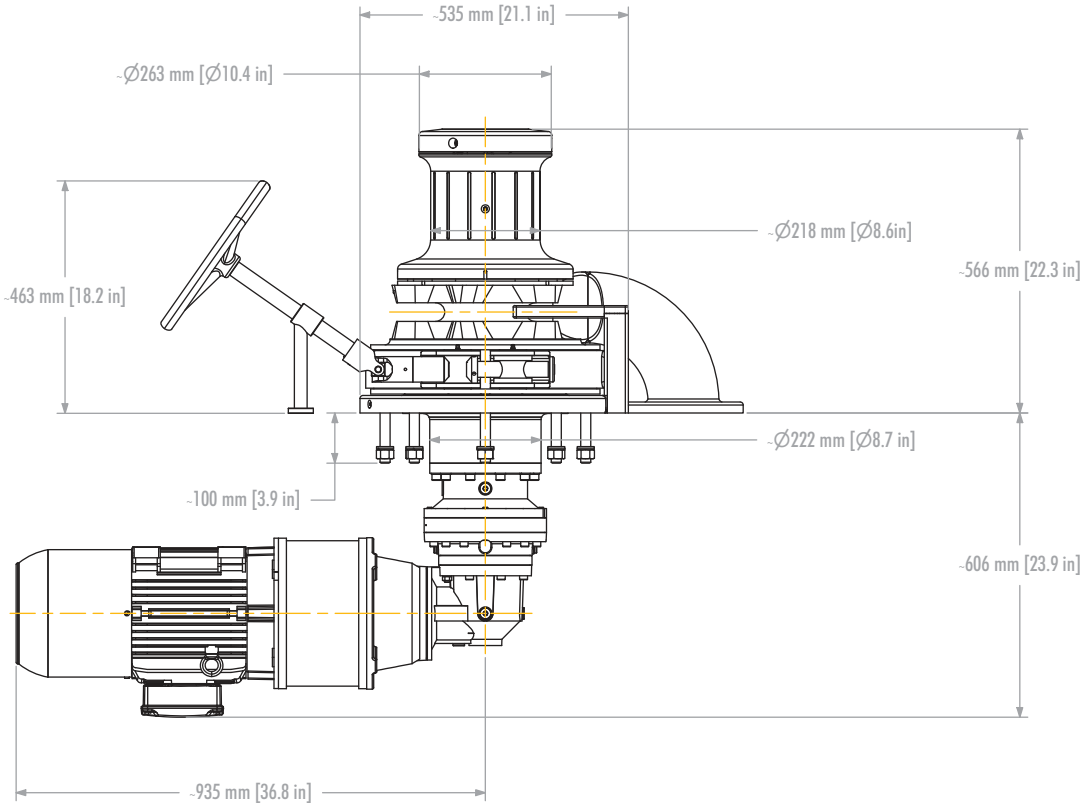


Right Angle Electric Planatary Drive



Inline Hydraulic Planatary Drive

VR/VRC 13000
Vertical Windlass



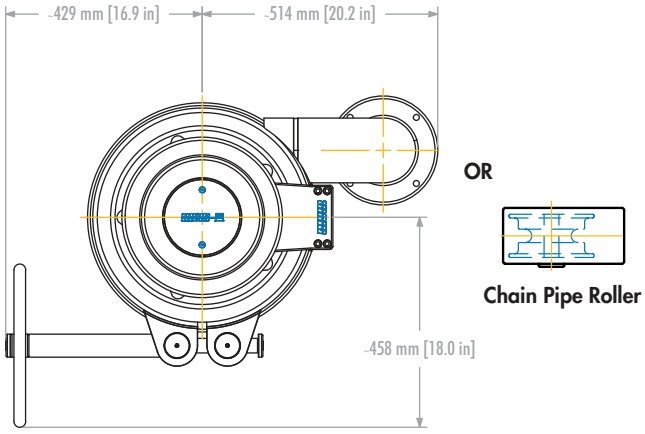
PERFORMANCE CRITERIA

MODEL	VRC13000	VRC13000	VRC13000
Maximum Pull (kg/lb)	**5909** / 13000	**5909** / 13000	**5909** / 13000
Continuous Pull (kg/lb)	**3300** / 6966	**3300** / 6966	**3900** / 8580
Recommended Minimum Speed (m/pmin - f/pmin)	**10** / 33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66
Power Supply	**3PH / 50HZ**	**3PH / 60HZ**	**HYDRAULIC**
Input Power (kW)	9.2	9.2	
Hydraulic Flow (l/pmin-USgpm)			**32** / 8.5
Maximum Flow (l/pmin-USgpm)			**64** / 17
Pressure (bar/PSI)			**175** / 2537
Maximum Pressure (bar/PSI)			**200** / 2900
Chain Size			
Short link up to	**22mm**	**22mm**	**22mm**
Stud link up to	**26mm** U2/**24mm** U3	**26mm** U2/**24mm** U3	**26mm** U2/**24mm** U3
Brake Size	**457** / 18	**457** / 18	**457** / 18
Average Weight (kg/lb)	**520** / 1144	**520** / 1144	**400** / 880

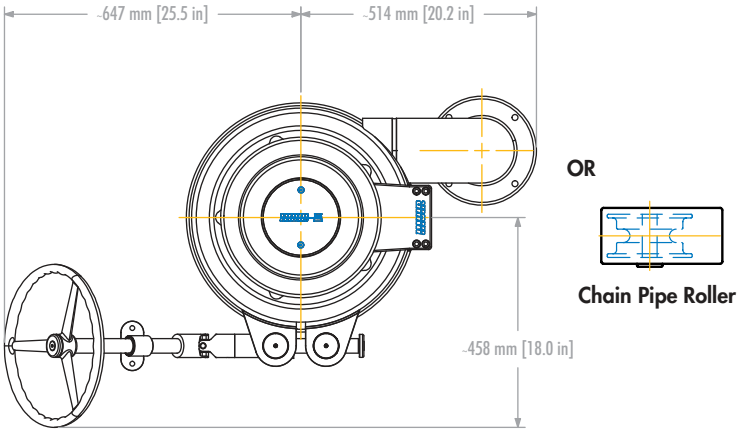
High Pressure 240 BAR 3600PSI optional

VR/VRC 13000

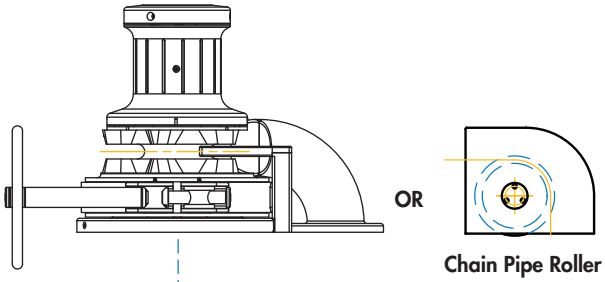
Vertical Windlass



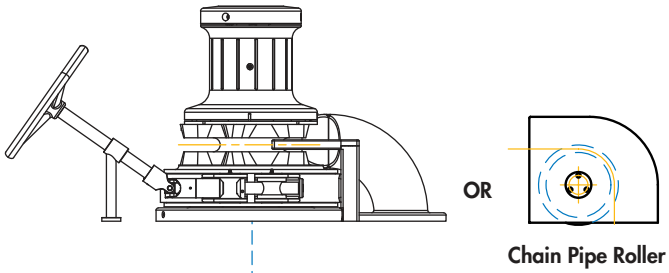
Round Base Standard Brake
(with Curved Chain Pipe or optional Chain Pipe Roller)



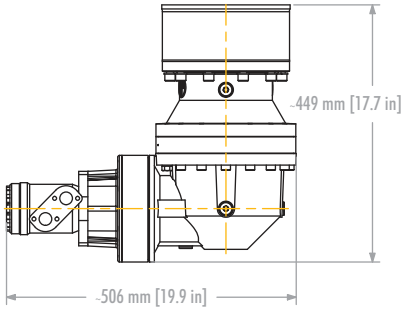
Round Base with 35° Brake and Handwheel
(with Curved Chain Pipe or optional Chain Pipe Roller)



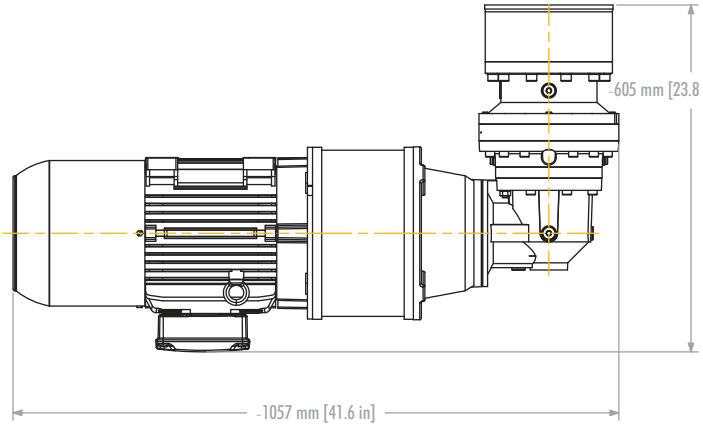
Round Base with Standard Brake



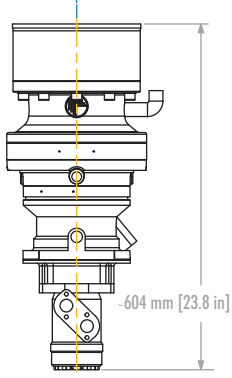
Round Base with 35° Brake and Handwheel



Right Angle Hydraulic Planatary Drive



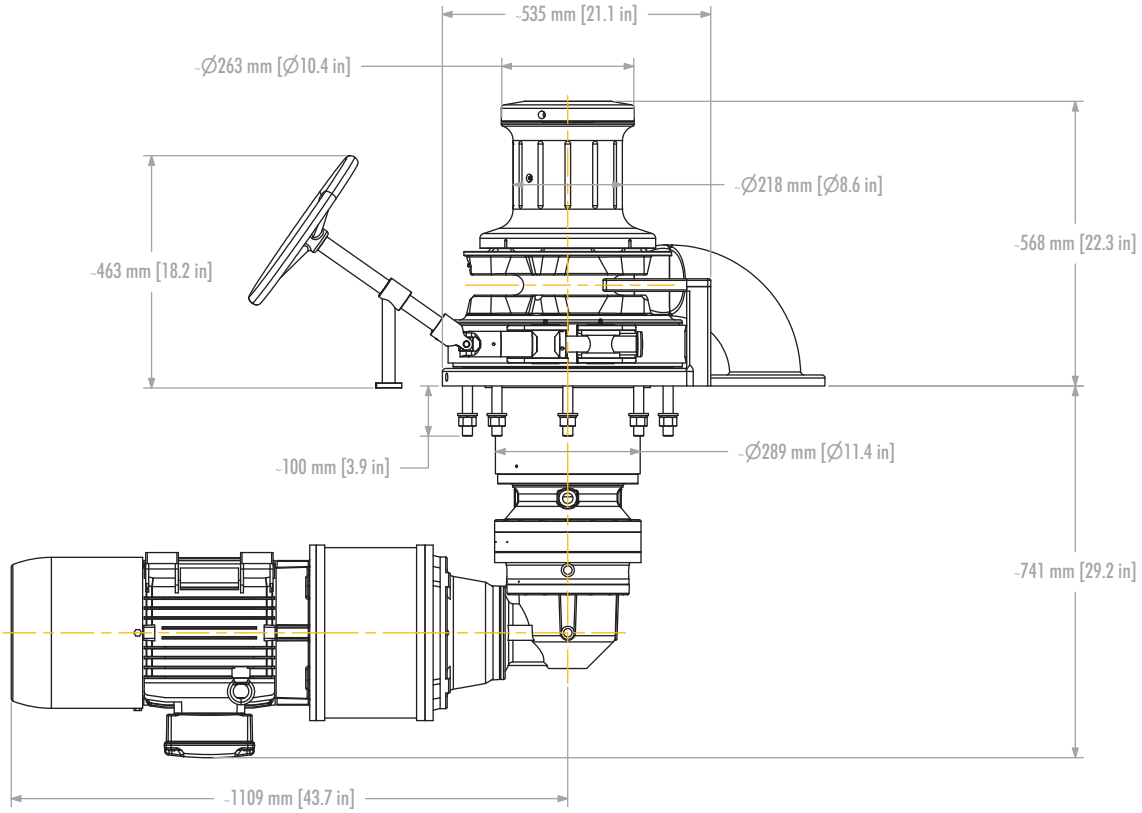
Right Angle Electric Planatary Drive



Inline Hydraulic Planatary Drive

VR/VRC 15000

Vertical Windlass

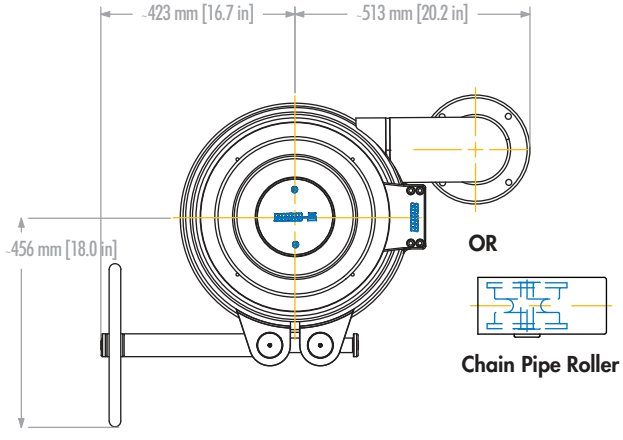


PERFORMANCE CRITERIA

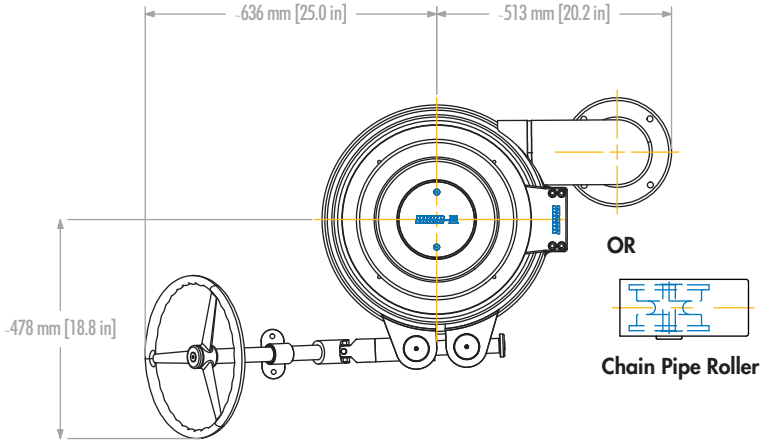
MODEL	VRC15000	VRC15000	VRC15000
Maximum Pull (kg/lb)	**6818** / 15000	**6818** / 15000	**6818** / 15000
Continuous Pull (kg/lb)	**3600** / 7920	**3600** / 7920	**4300** / 9460
Recommended Minimum Speed (m/pmin - f/pmin)	**10** / 33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66
Power Supply	**3PH / 50HZ**	**3PH/60HZ**	**HYDRAULIC**
Input Power (kW)	9.2/11	9.2/ 11	
Hydraulic Flow (l/pmin-USgpm)			**34** / 9
Maximum Flow (l/pmin-USgpm)			**68** / 18
Pressure (bar/PSI)			**175** / 2537
Maximum Pressure (bar/PSI)			**200** / 2900
Chain Size			
Stud link up to	**26mm** U2 / **24mm** U3	**26mm** U2 / **24mm** U3	**26mm** U2 / **24mm** U3
Brake Size	**457** / 18	**457** / 18	**457** / 18
Average Weight (kg/lb)	**640** / 1408	**640** / 1408	**520** / 1144

High Pressure 240 BAR 3600PSI optional

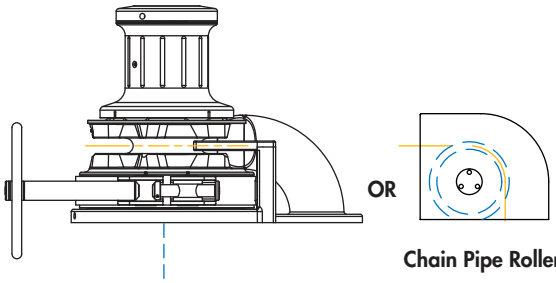
VR/VRC 15000
Vertical Windlass



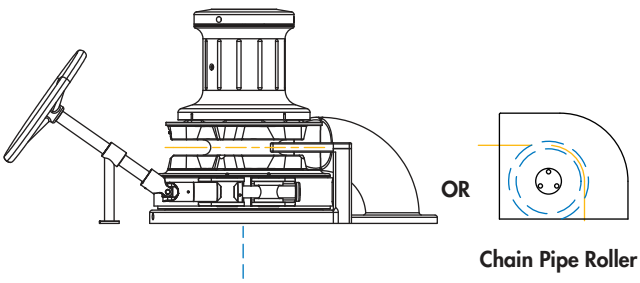
Round Base Standard Brake
(with Curved Chain Pipe or optional Chain Pipe Roller)



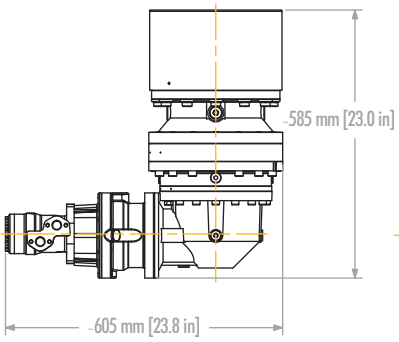
Round Base 35º with Brake and Handwheel
(with Curved Chain Pipe or optional Chain Pipe Roller)



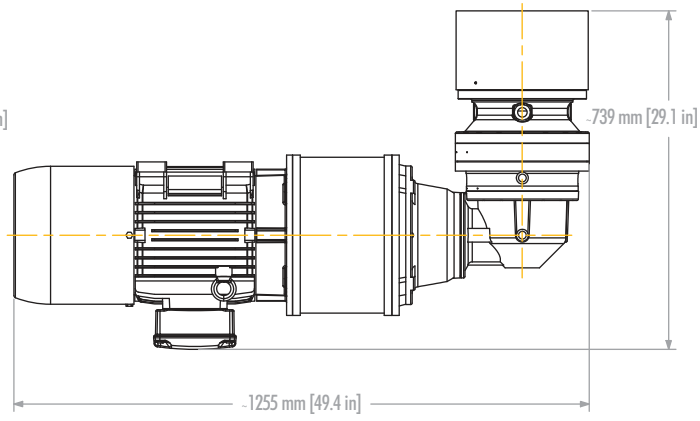
Round Base with Standard Brake



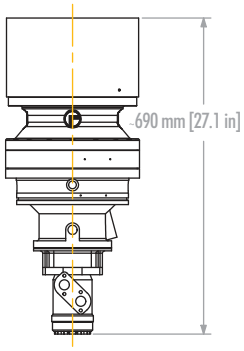
Round Base with 35º Brake and Handwheel



Right Angle Hydraulic Planatary Drive

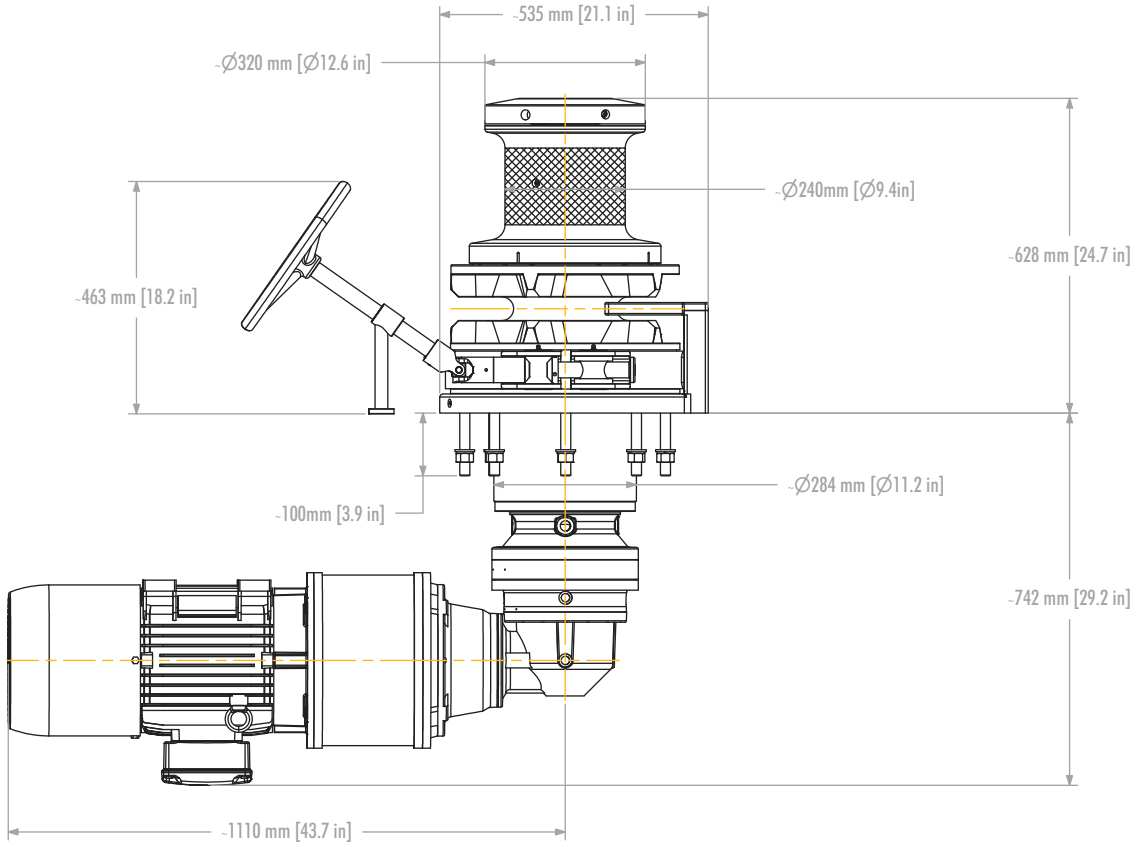


Right Angle Electric Planatary Drive



Inline Hydraulic Planatary Drive

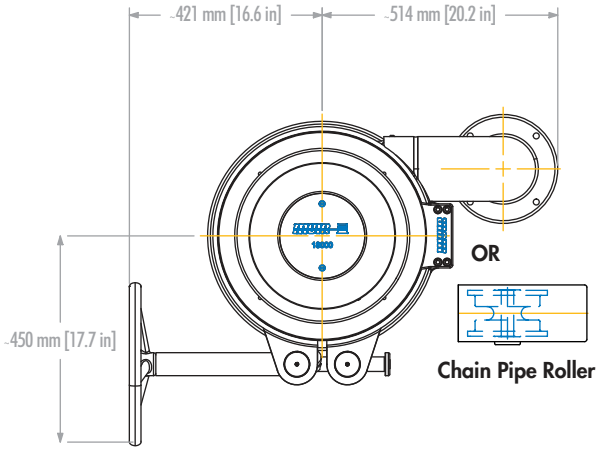
VR/VRC 18000
Vertical Windlass



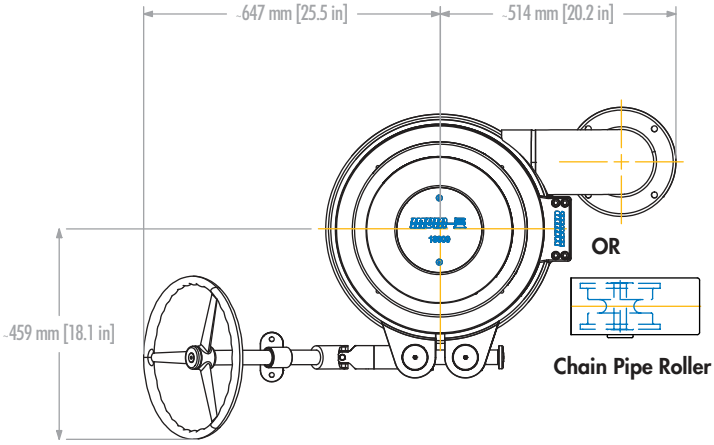
PERFORMANCE CRITERIA

MODEL	VRC18000	VRC18000	VRC18000
Maximum Pull (kg/lb)	**8180** / 18000	**8180** / 18000	**8180** / 18000
Continuous Pull (kg/lb)	**4400** / 9680	**4400** / 9680	**4900** / 10780
Recommended Minimum Speed (m/pmin - f/pmin)	**10** / 33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66
Power Supply	**3PH / 50HZ**	**3PH / 60HZ**	**HYDRAULIC**
Input Power (kW)	11	11	
Hydraulic Flow (l/pmin-USgpm)			**39** / 10.3
Maximum Flow (l/pmin-USgpm)			**78** / 20.6
Pressure (bar/PSI)			**210** / 3045
Maximum Pressure (bar/PSI)			**250** / 3625
Chain Size			
Stud link up to	**28mm** U2 / **24mm** U3	**28mm** U2 / **24mm** U3	**28mm** U2 / **24mm** U3
Brake Size	**457** / 18	**457** / 18	**457** / 18
Average Weight (kg/lb)	**697** / 1533	**697** / 1533	**582** / 1280

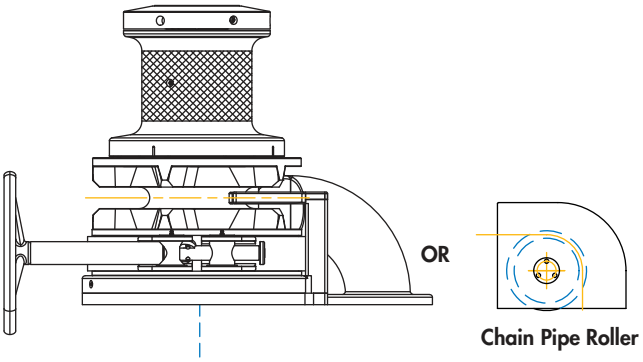
VR/VRC 18000
Vertical Windlass



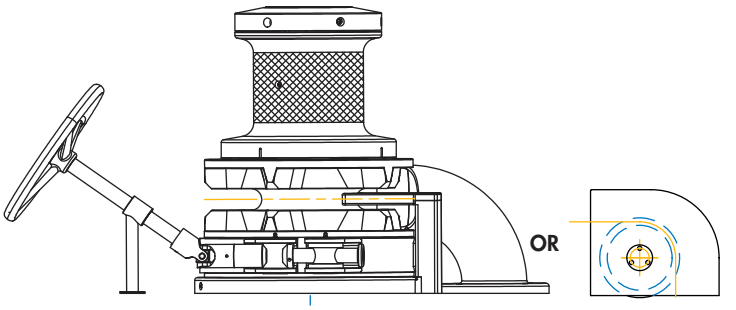
Round Base Standard Brake
(with Curved Chain Pipe or optional Chain Pipe Roller)



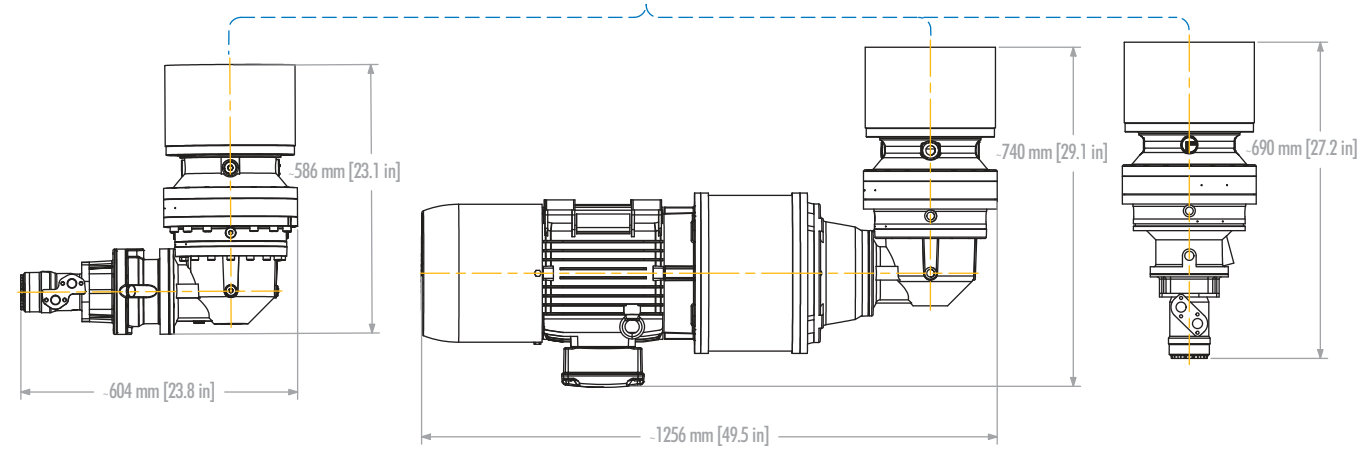
Round Base 35º with Brake and Handwheel
(with Curved Chain Pipe or optional Chain Pipe Roller)



Round Base with Standard Brake



Round Base with 35º Brake and Handwheel

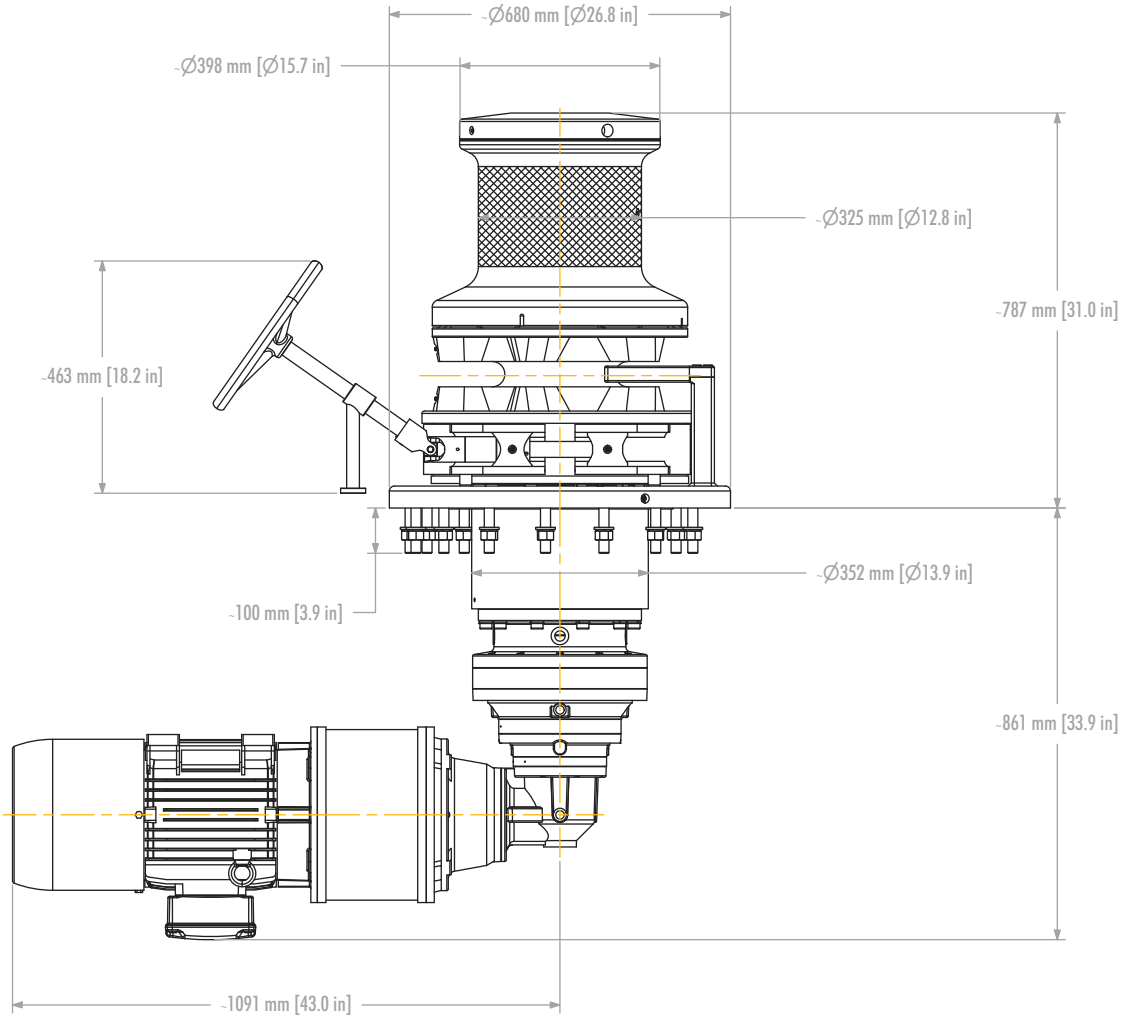


Right Angle Hydraulic Planatary Drive

Right Angle Electric Planatary Drive

Inline Hydraulic Planatary Drive

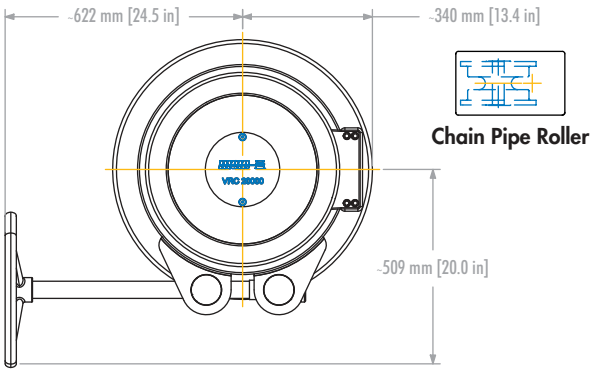
VR/VRC 20000
Vertical Windlass



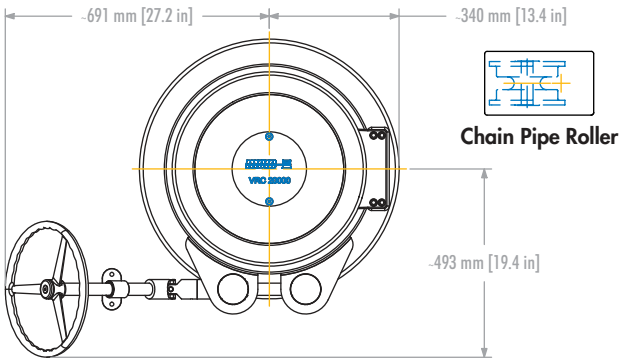
PERFORMANCE CRITERIA

MODEL	VRC20000	VRC20000	VRC20000
Maximum Pull (kg/lb)	**9090** / 20000	**9090** / 20000	**9090** / 20000
Continuous Pull (kg/lb)	**6000** / 13200	**6000** / 13200	**7200** / 15840
Recommended Minimum Speed (m/pmin - f/pmin)	**10** / 33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66
Power Supply	**3PH / 50HZ**	**3PH / 60HZ**	**HYDRAULIC**
Input Power (kW)	11 / 15	11 / 15	
Hydraulic Flow (l/pmin-USgpm)			**50** / 13
Maximum Flow (l/pmin-USgpm)			**98** / 25
Pressure (bar/PSI)			**210** / 3045
Maximum Pressure (bar/PSI)			**250** / 3635
Chain Size			
Stud link up to	**32mm** U2 / **30mm** U3 /	**32mm** U2 / **30mm** U3	**32mm** U2 / **30mm** U3
Brake Size	**520** / 24	**520** / 24	**520** / 24
Average Weight (kg/lb)	**1200**	**1200**	**1015**

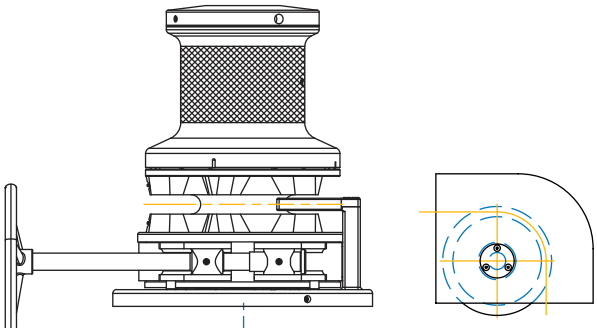
VR/VRC 20000
Vertical Windlass



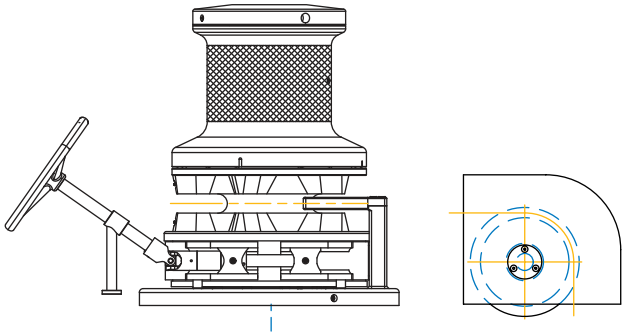
Round Base Standard Brake
with Chain Pipe Roller



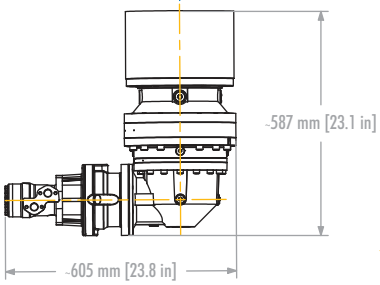
Round Base with 35º Brake and Handwheel
with Chain Pipe Roller



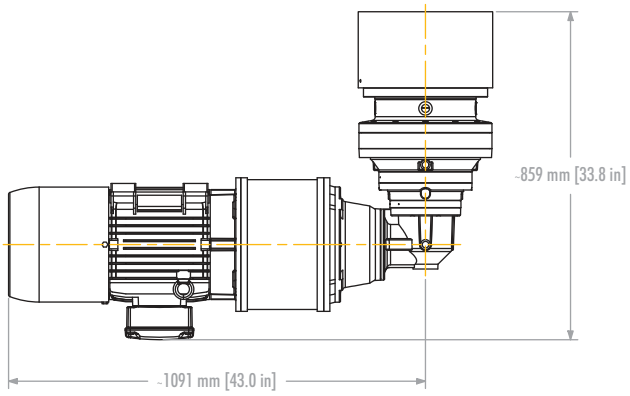
Round Base with Standard Brake



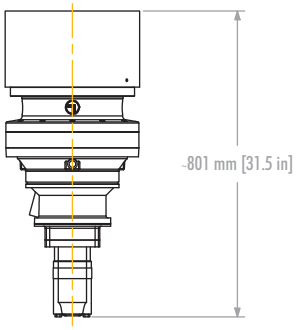
Round Base with 35º Brake and Handwheel



Right Angle Hydraulic Planatary Drive



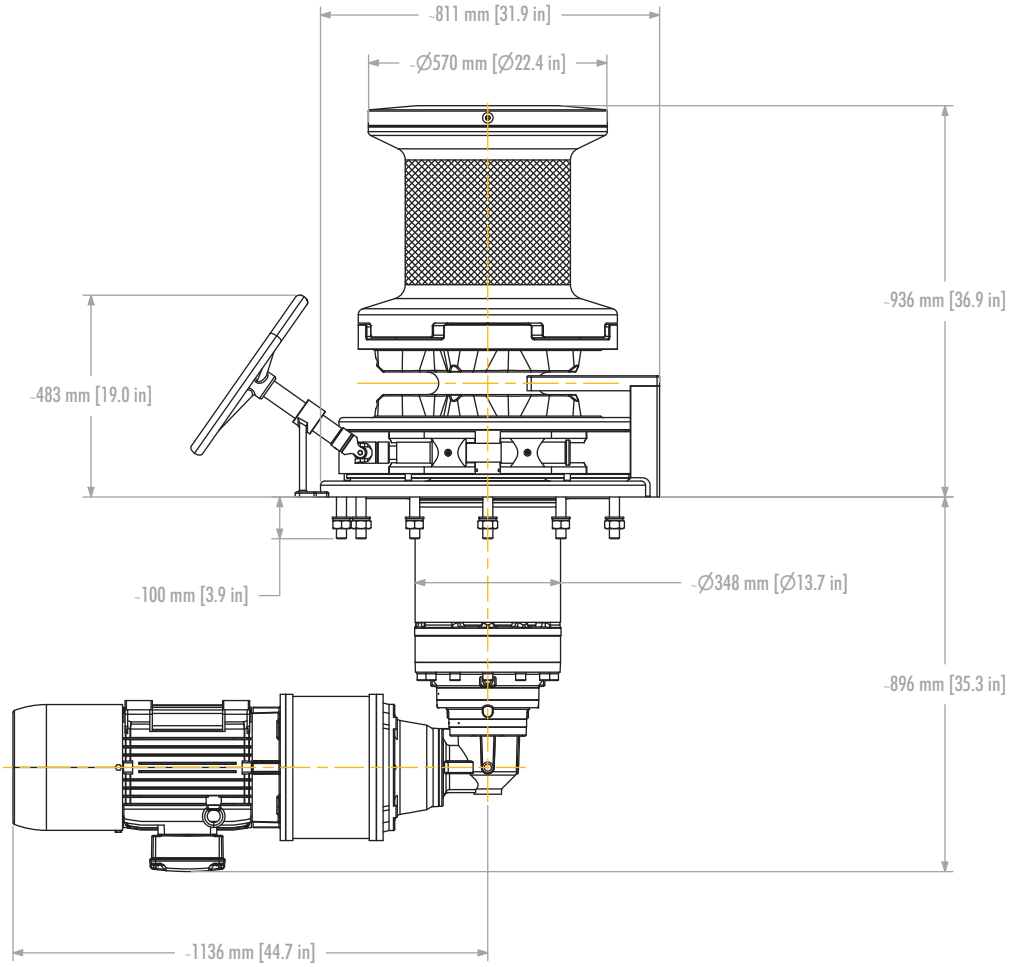
Right Angle Electric Planatary Drive



Inline Hydraulic Planatary Drive

VR/VRC 22000/23000

Vertical Windlass

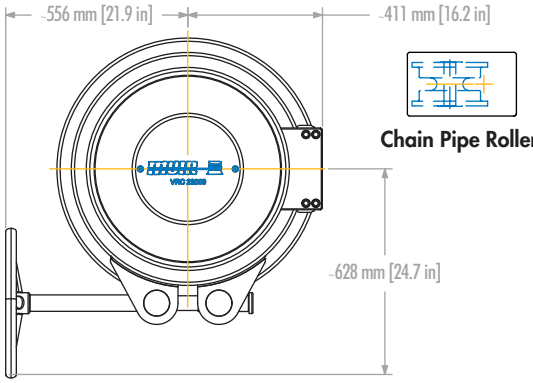


PERFORMANCE CRITERIA

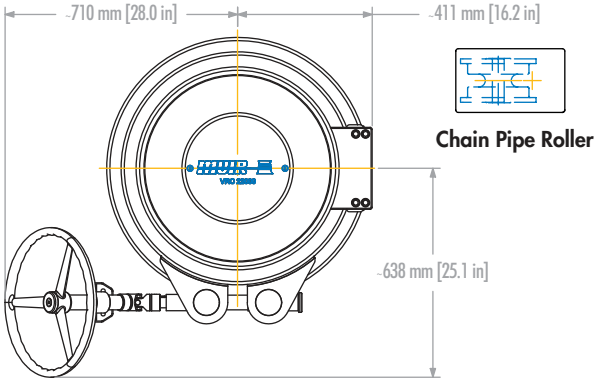
MODEL	VRC22000/23000	VRC22000/23000	VRC22000/23000
Maximum Pull (kg/lb)	**11000** / 24200	**11000** / 24200	**11000** / 24200
Continuous Pull (kg/lb)	**7000** / 15400	**7000** / 15400	**7500** / 15500
Recommended Minimum Speed (m/pmin - f/pmin)	**10** / 33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66
Power Supply	**3PH / 50HZ**	**3PH / 60HZ**	**HYDRAULIC**
Input Power (kW)	**15** / 18.5	**15** / 18.5	
Hydraulic Flow (l/pmin-USgpm)			**65** / 17.2
Maximum Flow (l/pmin-USgpm)			**120** / 31.7
Pressure (bar/PSI)			**210** / 3045
Maximum Pressure (bar/PSI)			**250** / 3625
Chain Size			
Stud link up to	**38mm** U2/ **34mm** U3	**38mm** U2/ **34mm** U3	**38mm** U2/ **34mm** U3
Brake Size	**610** / 24	**610** / 24	**610** / 24
Average Weight (kg/lb)	**1750** / 3850	**1750** / 3850	**1700** / 3740

VR/VRC 22000/23000

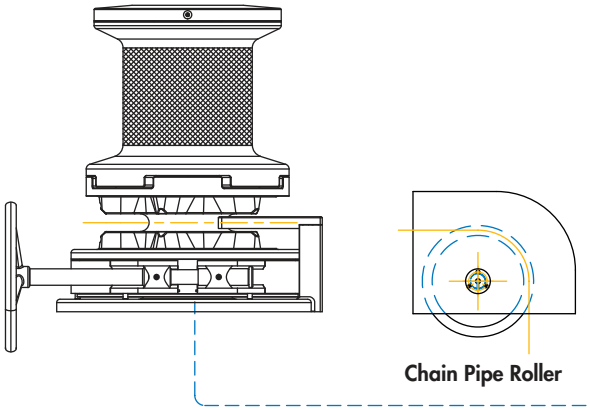
Vertical Windlass



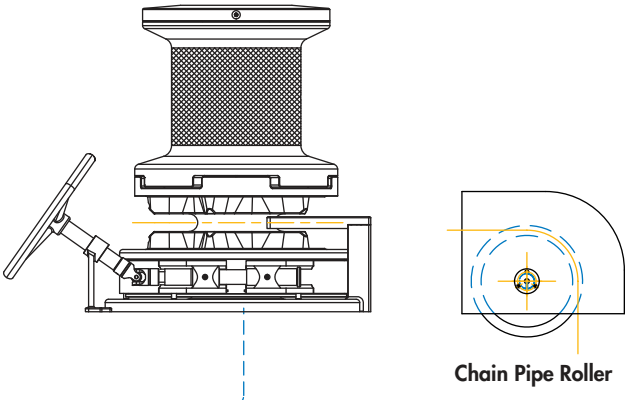
Round Base Standard Brake with Chain Pipe Roller



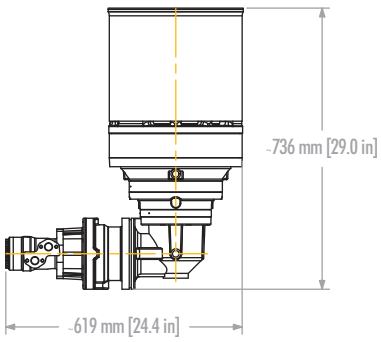
Round Base with 35º Brake and Handwheel with Chain Pipe Roller



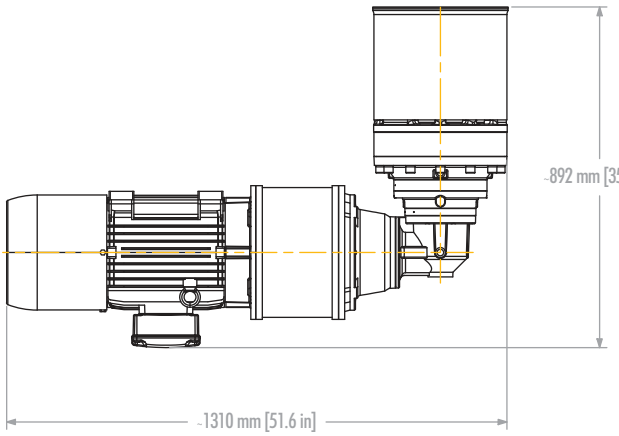
Round Base with Standard Brake



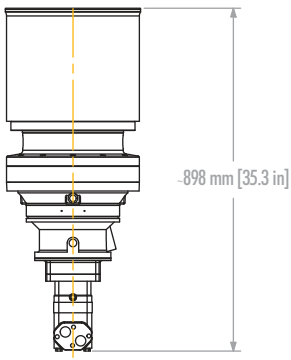
Round Base with 35º Brake and Handwheel



Right Angle Hydraulic Planatary Drive



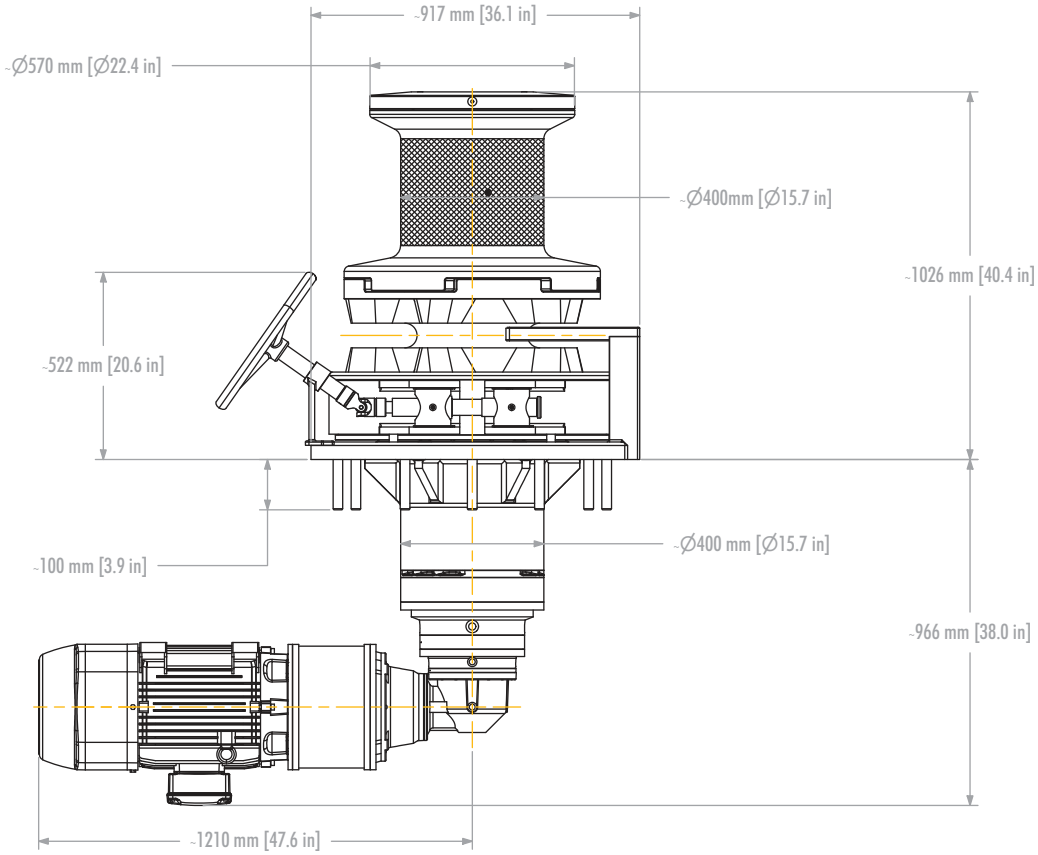
Right Angle Electric Planatary Drive



Inline Hydraulic Planatary Drive

VR/VRC 24000/26000

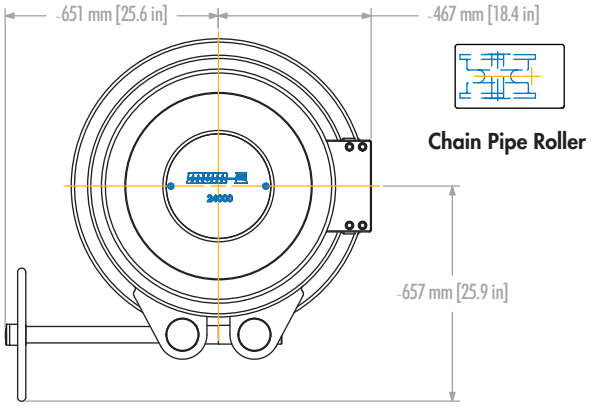
Vertical Windlass



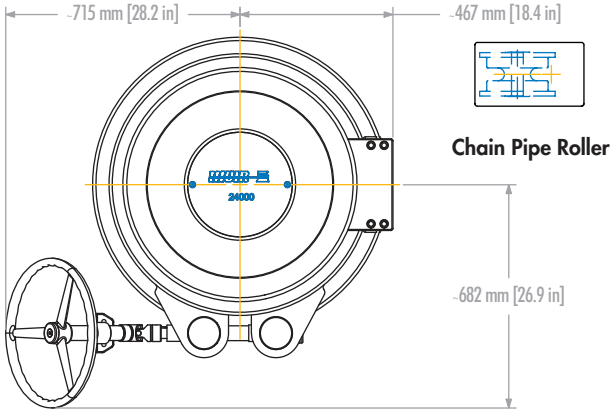
PERFORMANCE CRITERIA

MODEL	VRC24000/26000	VRC24000/26000	VRC24000/26000
Maximum Pull (kg/lb)	**13000** / 28600	**13000** / 28600	**13000** / 28600
Continuous Pull (kg/lb)	**8500** / 18700	**8500** / 18700	**8500** / 18700
Recommended Minimum Speed (m/pmin - f/pmin)	**10** / 33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66
Power Supply	**3PH / 50HZ**	**3PH / 60HZ**	**HYDRAULIC**
Input Power (kW)	18.2 / 22	18.2 / 22	
Hydraulic Flow (l/pmin-USgpm)			**65** / 17.2
Maximum Flow (l/pmin-USgpm)			**120** / 31.7
Pressure (bar/PSI)			**210** / 3045
Maximum Pressure (bar/PSI)			**250** / 3625
Chain Size			
Stud link up to	**46mm** U2 / **40mm** U3	**46mm** U2 / **40mm** U3	**46mm** U2 / **40mm** U3
Brake Size	**725** / 30	**725** / 30	**725** / 30
Average Weight (kg/lb)	**2300** / 5060	**2300** / 5060	**2150** / 4730

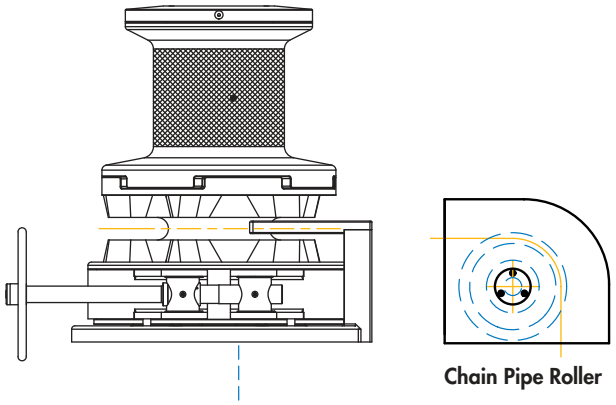
VR/VRC
24000/26000
Vertical Windlass



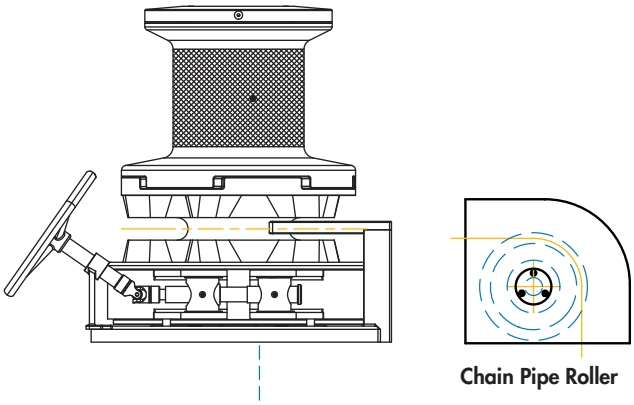
Round Base Standard Brake with Chain Pipe Roller



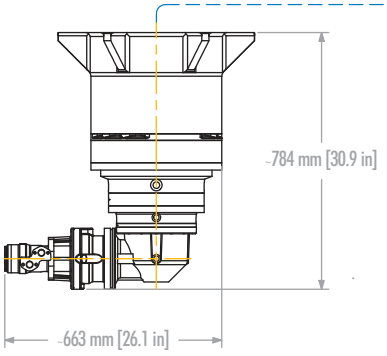
Round Base with 35° Brake and Handwheel with Chain Pipe Roller



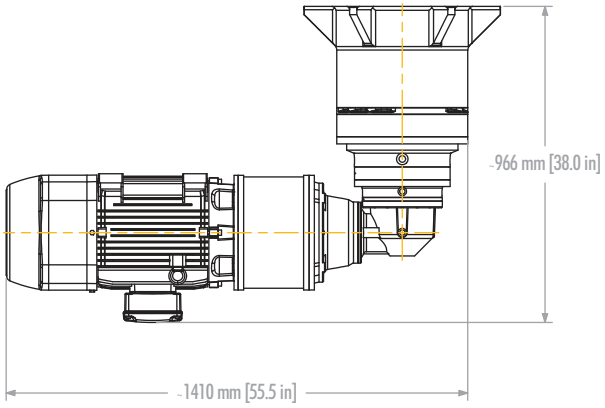
Round Base with Standard Brake



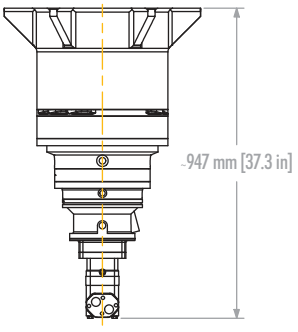
Round Base with 35° Brake and Handwheel



Right Angle Hydraulic Planatary Drive



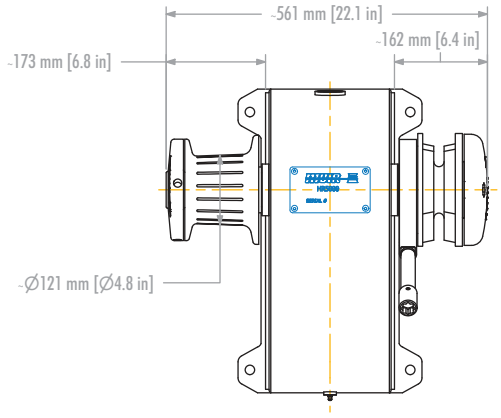
Right Angle Electric Planatary Drive



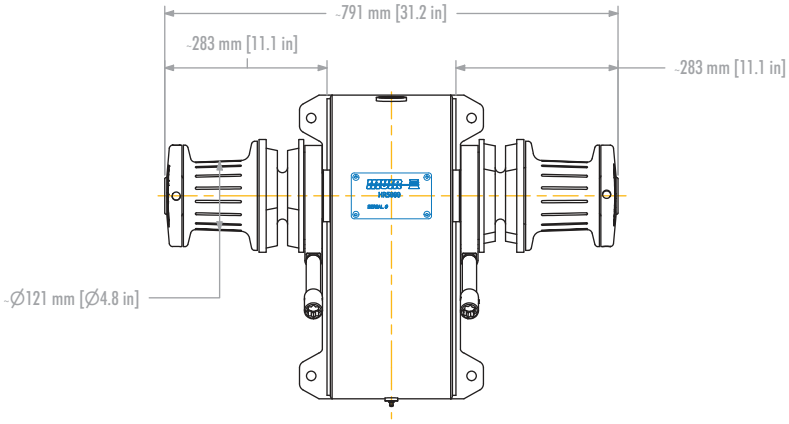
Inline Hydraulic Planatary Drive

HR5000
Horizontal Windlass

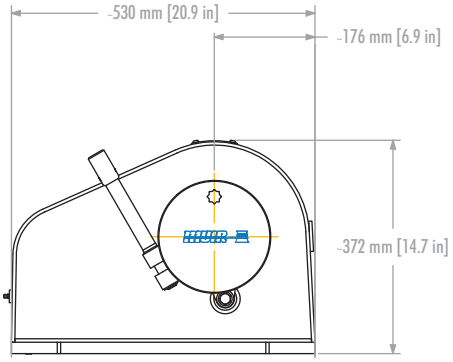
*Gypsy centre varies with chain size

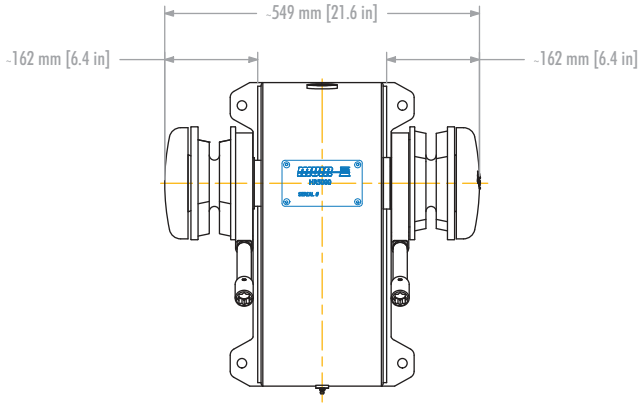


Single Capstan Single Gypsy



Twin Gypsy Twin Capstan





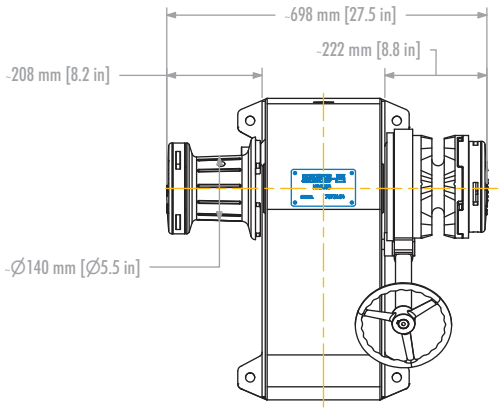
Twin Gypsy

PERFORMANCE CRITERIA

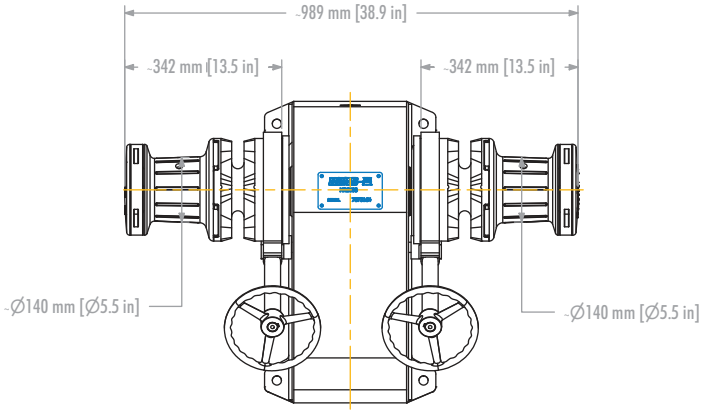
MODEL	HR5000	HR5000
Maximum Pull (kg/lb)	**2500** / 5500	**2500** / 5500
Continuous Pull (kg/lb)	**1950** / 2090	**1600** / 3520
Recommended Minimum Speed (m/pmin - f/pmin)	**15** / 50	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66
Power Supply	**24VDC**	**HYDRAULIC**
Input Power (kW)	**3**/ 3.5	
Hydraulic Flow (l/pmin-USgpm)		**26** / 6.9
Maximum Flow (l/pmin-USgpm)		**52** / 13.7
Pressure (bar/PSI)		**175** / 2537
Maximum Pressure (bar/PSI)		**200** / 2900
Chain Size		
Short link up to	**16mm**	**16mm**
Stud link up to	**14mm** U2	**14mm** U2
Brake Size	**150/230mm**	**150/230mm**
Average Weight (kg/lb)	**130** / 286	**113** / 248

HR6000
Horizontal Windlass

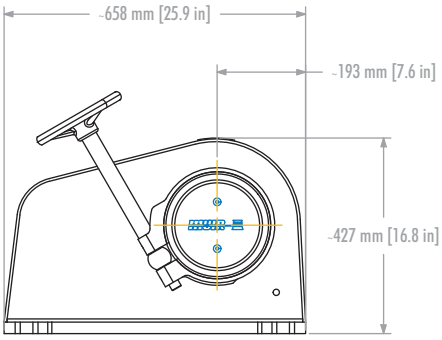
*Gypsy centre varies with chain size

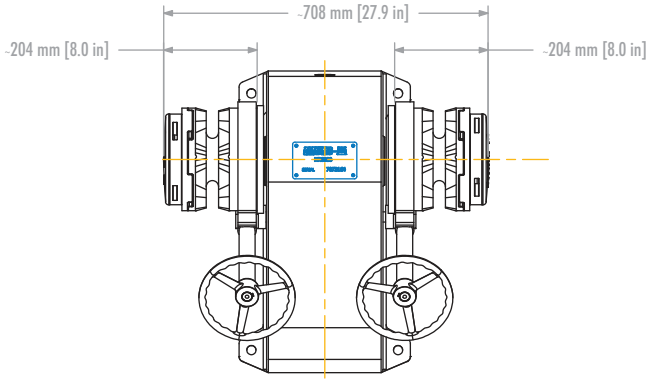


Single Capstan Single Gypsy



Twin Gypsy Twin Capstan





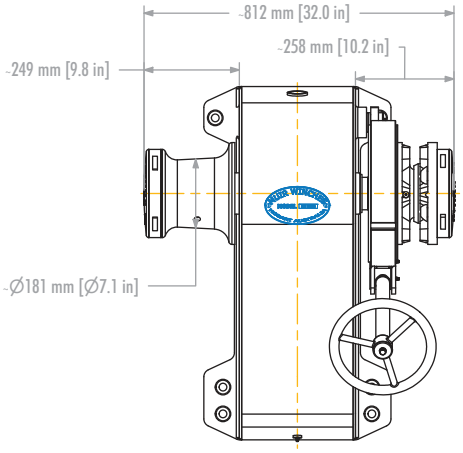
Twin Gypsy

PERFORMANCE CRITERIA

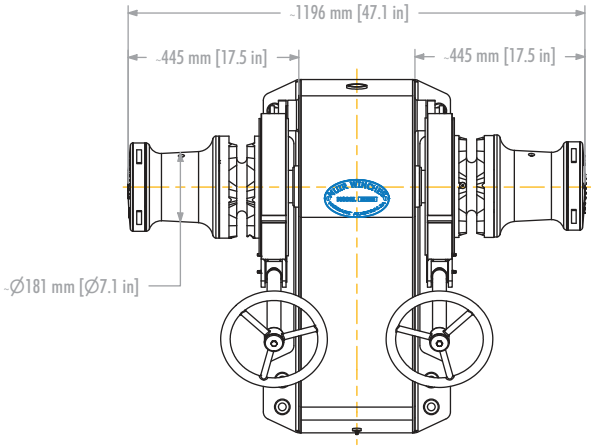
MODEL	H6000	H6000
Maximum Pull (kg/lb)	**2900** / 6380	**2900** / 6380
Continuous Pull (kg/lb)	**1409** / 3100	**2138** / 4703
Recommended Minimum Speed (m/pmin - f/pmin)	**15** / 50	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66
Power Supply	**24VDC**	**HYDRAULIC**
Input Power (kW)	**3** / 3.5	
Hydraulic Flow (l/pmin-USgpm)		**28** / 7.4
Maximum Flow (l/pmin-USgpm)		**56** / 14.8
Pressure (bar/PSI)		**175** / 2537
Maximum Pressure (bar/PSI)		**200** / 2900
Chain Size		
Short link up to	**16mm** / 5 / 8"	**16mm** / 5 / 8"
Stud link up to	**16mm** U2 / **14mm** U3	**16mm** U2 / **14mm** U3
Brake Size	**230** / 9	**230** / 9
Average Weight (kg/lb)	**370** / 814	**335** / 781

HR8000
Horizontal Windlass

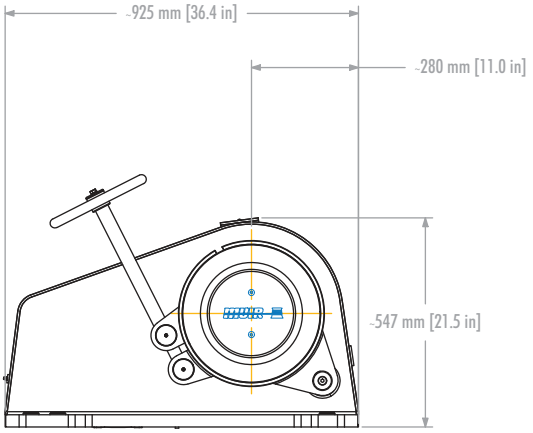
*Gypsy centre varies with chain size

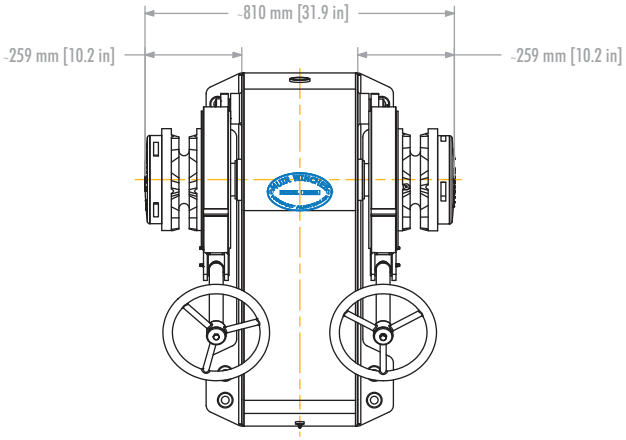


Single Capstan Single Gypsy



Twin Gypsy Twin Capstan





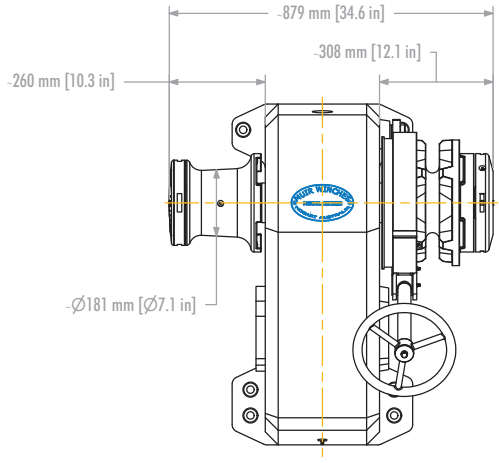
Twin Gypsy

PERFORMANCE CRITERIA

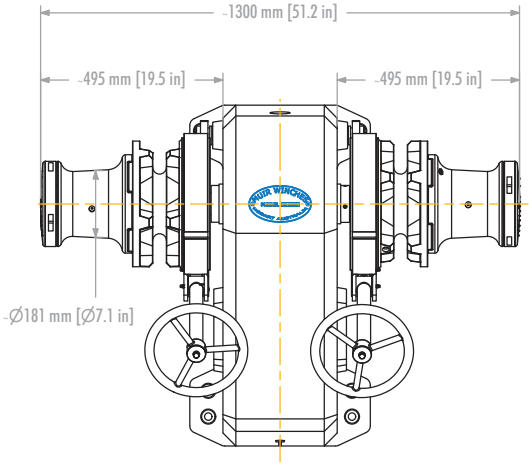
MODEL	HR8000	HR8000	HR8000
Maximum Pull (kg/lb)	**3636** / 8000	**3636** / 8000	**2636** / 8000
Continuous Pull (kg/lb)	**2400** / 5280	**2400** / 5280	**2900** / 6380
Recommended Minimum Speed (m/pmin - f/pmin)	**10** /33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66
Power Supply	**3PH / 50HZ**	**3PH / 50HZ**	**HYDRAULIC**
Input Power (kW)	5.5	5.5	
Hydraulic Flow (l/pmin-USgpm)			**28** / 7.4
Maximum Flow (l/pmin-USgpm)			**56** / 14.8
Pressure (bar/PSI)			**170** / 2537
Maximum Pressure (bar/PSI)			**200** / 2900
Chain Size			
Short link up to	**19mm**	**19mm**	**22mm**
Stud link up to	**19mm** U2/**17.5mm** U3	**19mm** U2/**17.5mm** U3	**19mm** U2/**17.5mm** U3
Brake Size	**356**/14	**356**/14	**356**/14
Average Weight (kg/lb)	**502** / 1140	**502** / 1140	**450**/990

HR11000
Horizontal Windlass

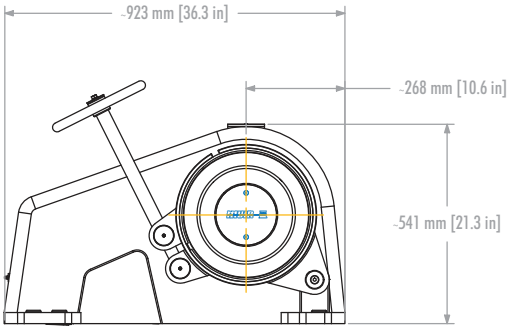
*Gypsy centre varies with chain size

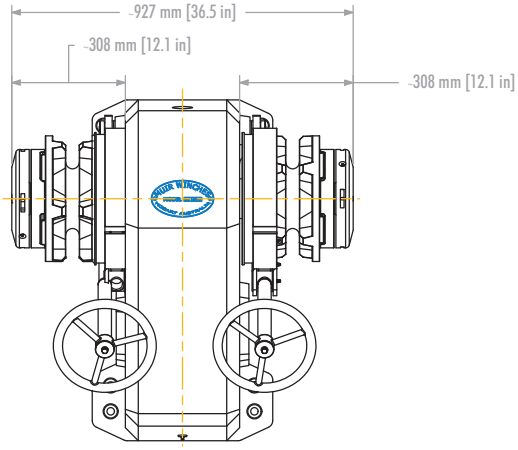


Single Capstan Single Gypsy



Twin Gypsy Twin Capstan





Twin Gypsy

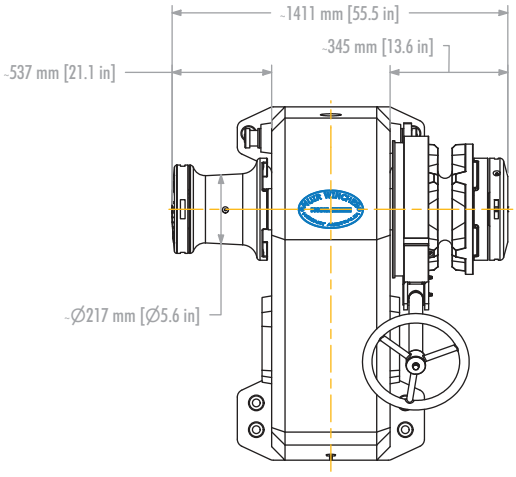
PERFORMANCE CRITERIA

MODEL	HR11000	HR11000	HR11000
Maximum Pull (kg/lb)	**5000** / 11000	**5000** / 11000	**5000** / 11000
Continuous Pull (kg/lb)	**2600** / 5720	**2600** / 5720	**3200** / 7040
Recommended Minimum Speed (m/pmin - f/pmin)	**10** / 33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66
Power Supply	**3PH /50HZ**	**3PH /50HZ**	**HYDRAULIC**
Input Power (kW)	7.5	7.5	
Hydraulic Flow (l/pmin-USgpm)			**30** / 7.9
Maximum Flow (l/pmin-USgpm)			**60**/15.8
Pressure (bar/PSI)			**170**/2537
Maximum Pressure (bar/PSI)			**200**/2900
Chain Size			
Short link up to	**22mm**	**22mm**	**22mm**
Stud link up to	**20.5mm** U2/**19mm** U3	**20.5mm** U2/**19mm** U3	**20.5mm** U2/**19mm** U3
Brake Size	**356** / 14	**356** / 14	**356**/14
Average Weight (kg/lb)	**536** / 1179	**536** / 1179	**450**/990

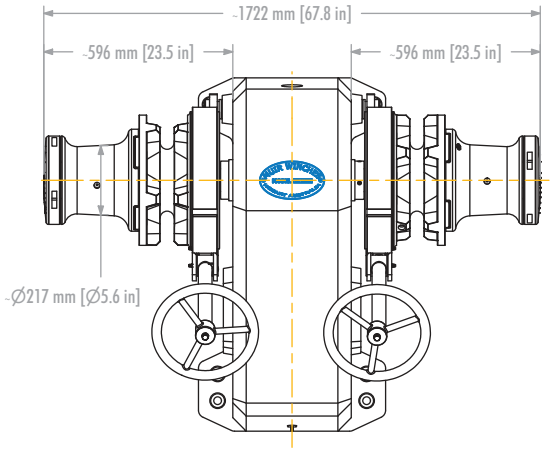
High Pressure 240 BAR
3600PSI optional

HR15000
Horizontal Windlass

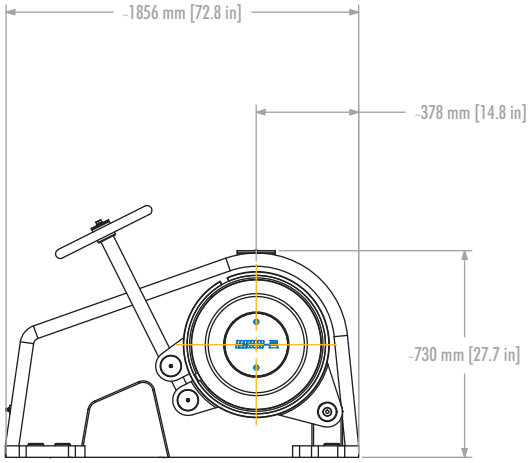
*Gypsy centre varies with chain size

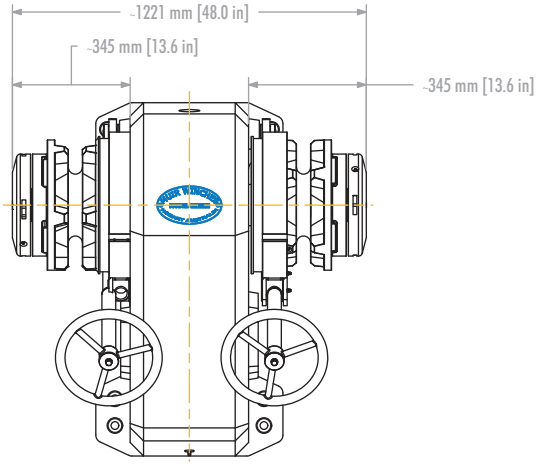


Single Capastan Single Gypsy



Twin Gypsy Twin Capastan





Twin Gypsy

PERFORMANCE CRITERIA

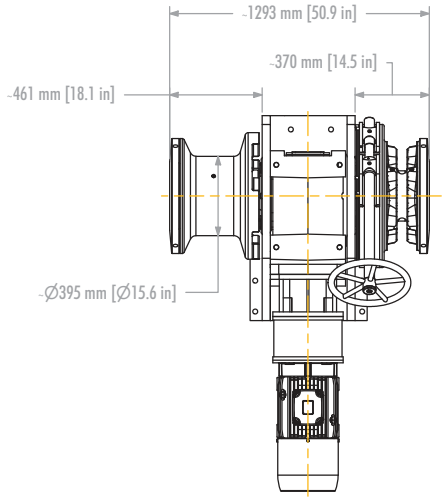
MODEL	HR15000	HR15000	HR15000
Maximum Pull (kg/lb)	**6820** / 15000	**6820** / 15000	**6820**/15000
Continuous Pull (kg/lb)	**3500** / 7700	**3500** / 7700	**4600** / 10120
Recommended Minimum Speed (m/pmin - f/pmin)	**13**/43	**13**/43	**10**/33
Maximum Recovery High Speed (m/pmin - f/pmin)	20/66	20/66	20/66
Power Supply	**3PH/50HZ**	**3PH/60HZ**	**HYDRAULIC**
Input Power (kW)	11	11	
Hydraulic Flow (l/pmin-USgpm)			**34** / 9
Maximum Flow (l/pmin-USgpm)			**68** / 18
Pressure (bar/PSI)			**175**/2537
Maximum Pressure (bar/PSI)			**200**/2900
Chain Size			
Short link up to			
Stud link up to	**26mm** U2/**24mm** U3	**26mm** U2/**24mm** U3	**26mm** U2/**24mm** U3
Brake Size	**457**/18	**457**/18	**457**/18
Average Weight (kg/lb)	**736**/1619	**736**/1619	**776**/1487

High Pressure 240 BAR
3600PSI optional

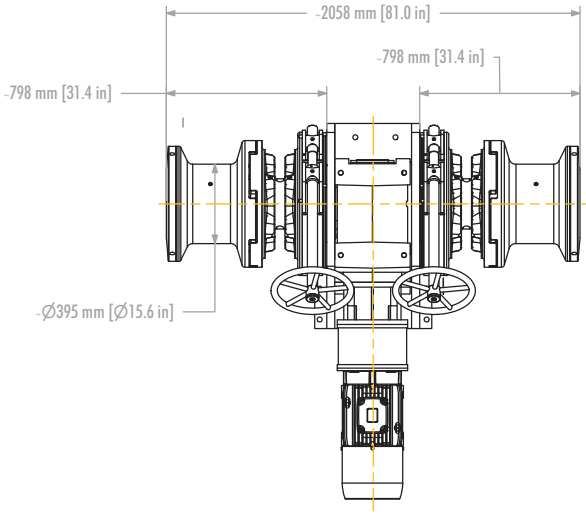
HR22000/24000 /26000

Horizontal Windlass

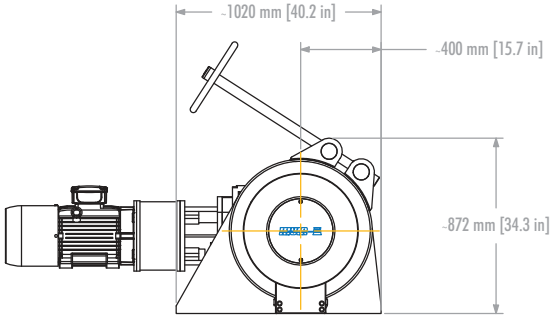
*Gypsy centre varies with chain size

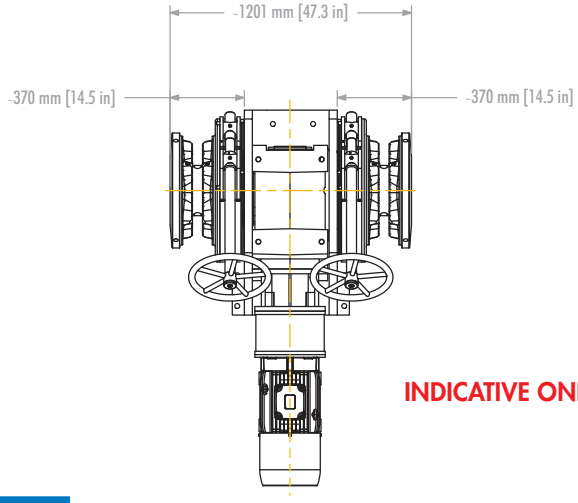


Single Capstan Single Gypsy



Twin Gypsy Twin Capstan





Twin Gypsy

INDICATIVE ONLY

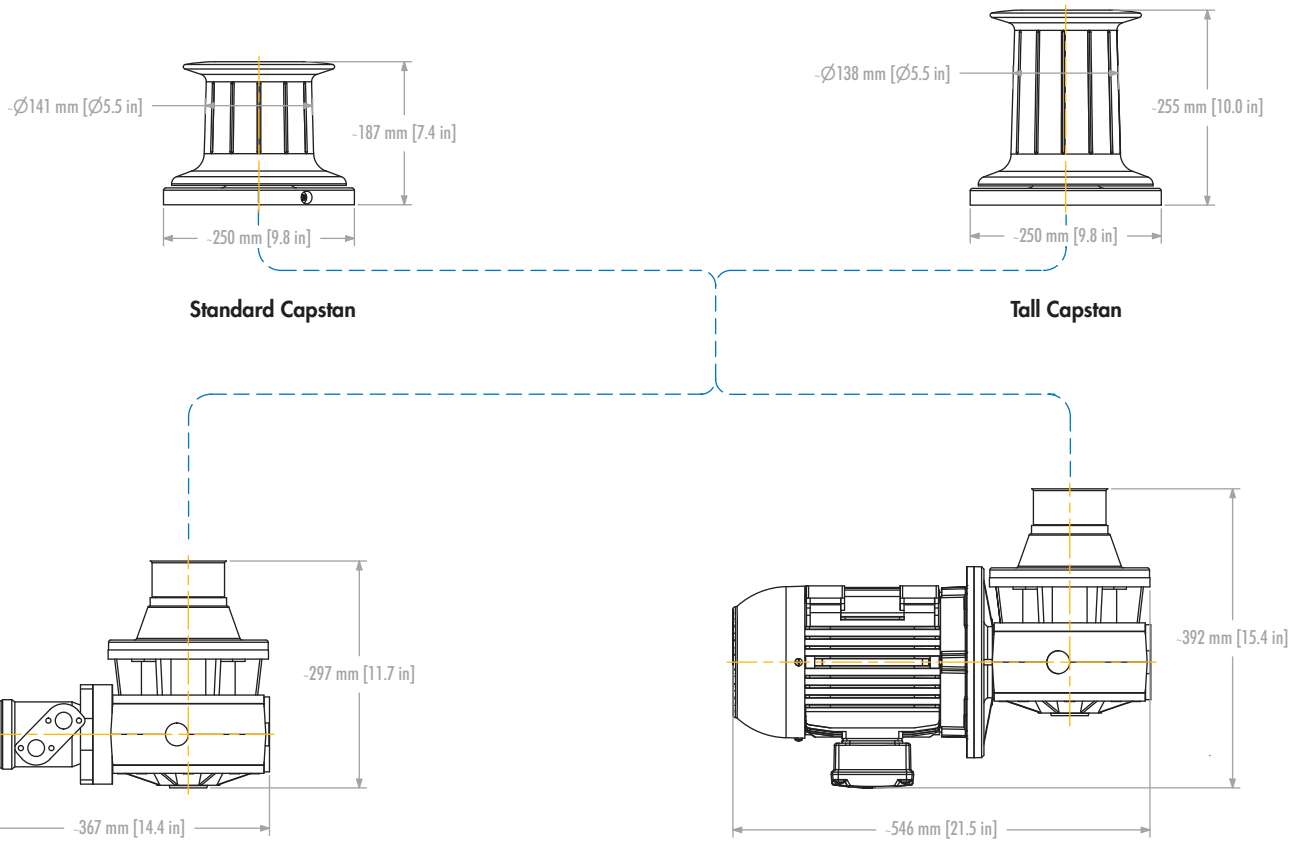
PERFORMANCE CRITERIA

MODEL	HR22000	HR22000
Maximum Pull (kg/lb)	**10000**/22000	**10000**/22000
Continuous Pull (kg/lb)	**7500** / 15500	**7500** / 15500
Recommended Minimum Speed (m/pmin - f/pmin)	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66
Power Supply	**HYDRAULIC**	**AC**
Input Power (kW)		Up to 18.5KW
Hydraulic Flow (l/pmin-USgpm)	**65** / 17.2	
Maximum Flow (l/pmin-USgpm)	**120** / 31.7	
Pressure (bar/PSI)	**210**/3045	
Maximum Pressure (bar/PSI)	**250**/3625	
Chain Size		
Short link up to		
Stud link up to	**38mm** U2+	**38mm** U2+
Brake Size	**660**/26	**660**/26
Average Weight (kg/lb)	**1800**/3960	**1800**/3960

INDICATIVE ONLY, SPECIFICATIONS ON REQUEST

VC4000/4500

Powered Capstan



Standard Capstan

Tall Capstan

Right Angle Hydraulic Worm Drive

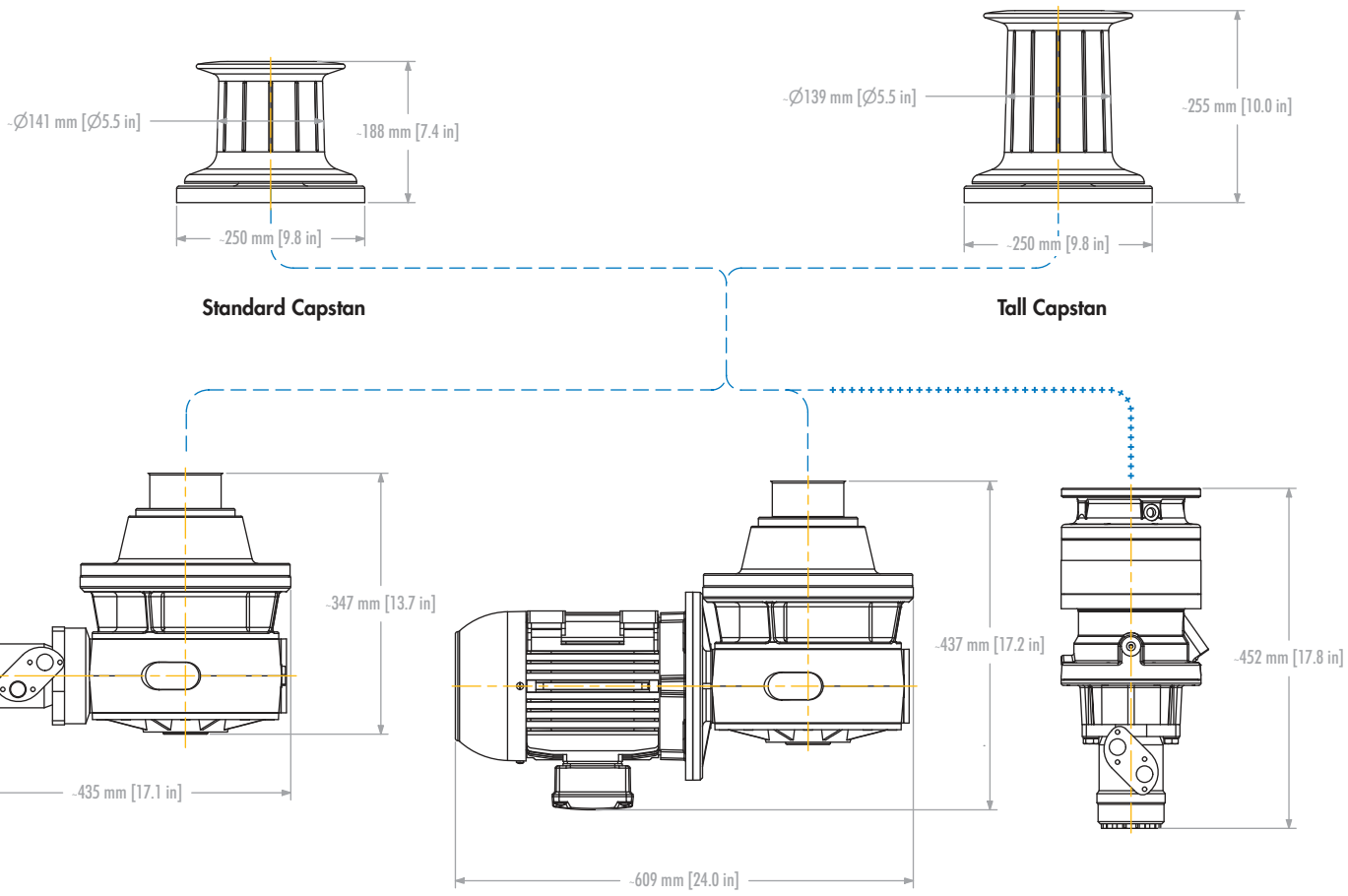
Right Angle Electric Worm Drive

PERFORMANCE CRITERIA INDICATIVE ONLY

MODEL	VC 4000/4500	VC 4000/4500	VC 4000/4500	VC 4000/4500
Maximum Pull (kg/lb)	**2200**/4840	**2200**/4840	**2200**/4840	**2200**/4840
Continuous Pull (kg/lb)	**750**/ 1650	**1000** / 2200	**1000** / 2200	**1050** / 2300
Recommended Minimum Speed (m/pmin - f/pmin)	**15** / 50	**10**/33	**10**/33	**10**/33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66	**20** / 66
Power Supply	**24V DC**	**3PH/50HZ**	**3PH/60HZ**	**HYDRAULIC**
Input Power (kW)	2	2.2	2.2	
Hydraulic Flow (l/pmin-USgpm)				**22**/5.8
Maximum Flow (l/pmin-USgpm)				**44**/11.6
Pressure (bar/PSI)				**175**/2537
Maximum Pressure (bar/PSI)				**200**/2900
Average Weight (kg/lb)	**62**/136	**85**/187	**85**/187	**56**/123

High Pressure 240 BAR
3600PSI optional

VC6000
Powered Capstan



Standard Capstan

Tall Capstan

Right Angle Hydraulic Worm Drive

Right Angle Electric Worm Drive

Inline Hydraulic Planatary Drive
*option available for extra cost

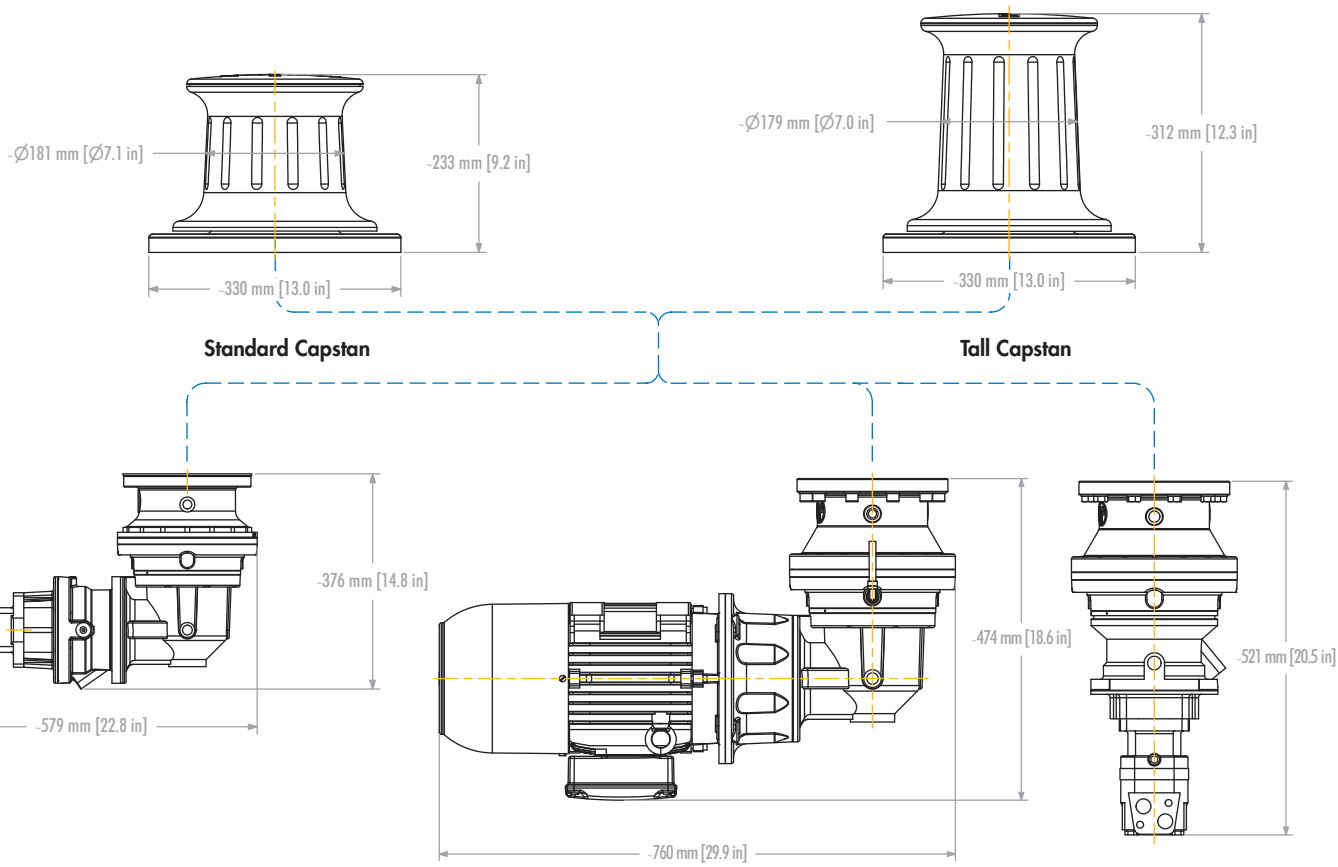
PERFORMANCE CRITERIA INDICATIVE ONLY

MODEL	VC 6000	VC 6000	VC 6000	VC 6000
Maximum Pull (kg/lb)	**2600**/ 5720	**2600**/ 5720	**2600**/ 5720	**2900**/6380
Continuous Pull (kg/lb)	**1500** / 3300	1500 / 3300	1500 / 3300	**2138** / 4703
Recommended Minimum Speed (m/pmin - f/pmin)	**15** / 50	**10**/33	**10**/33	**10**/33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66	**20**/66
Power Supply	**24V**	**3PH/50HZ**	**3PH/60HZ**	**HYDRAULIC**
Input Power (kW)	3.5	4	4	
Hydraulic Flow (l/pmin-USgpm)				**28**/7.4
Maximum Flow (l/pmin-USgpm)				**56**/14.8
Pressure (bar/PSI)				**175**/2537
Maximum Pressure (bar/PSI)				**200**/2900
Average Weight (kg/lb)	**90** / 198	**122**/268	**122**/268	**83**/182

High Pressure 240 BAR 3600PSI optional

VC8000/11000

Powered Capstan



Right Angle Hydraulic Planatery Drive | **Right Angle Electric Planatery Drive** | **Inline Hydraulic Planatary Drive**

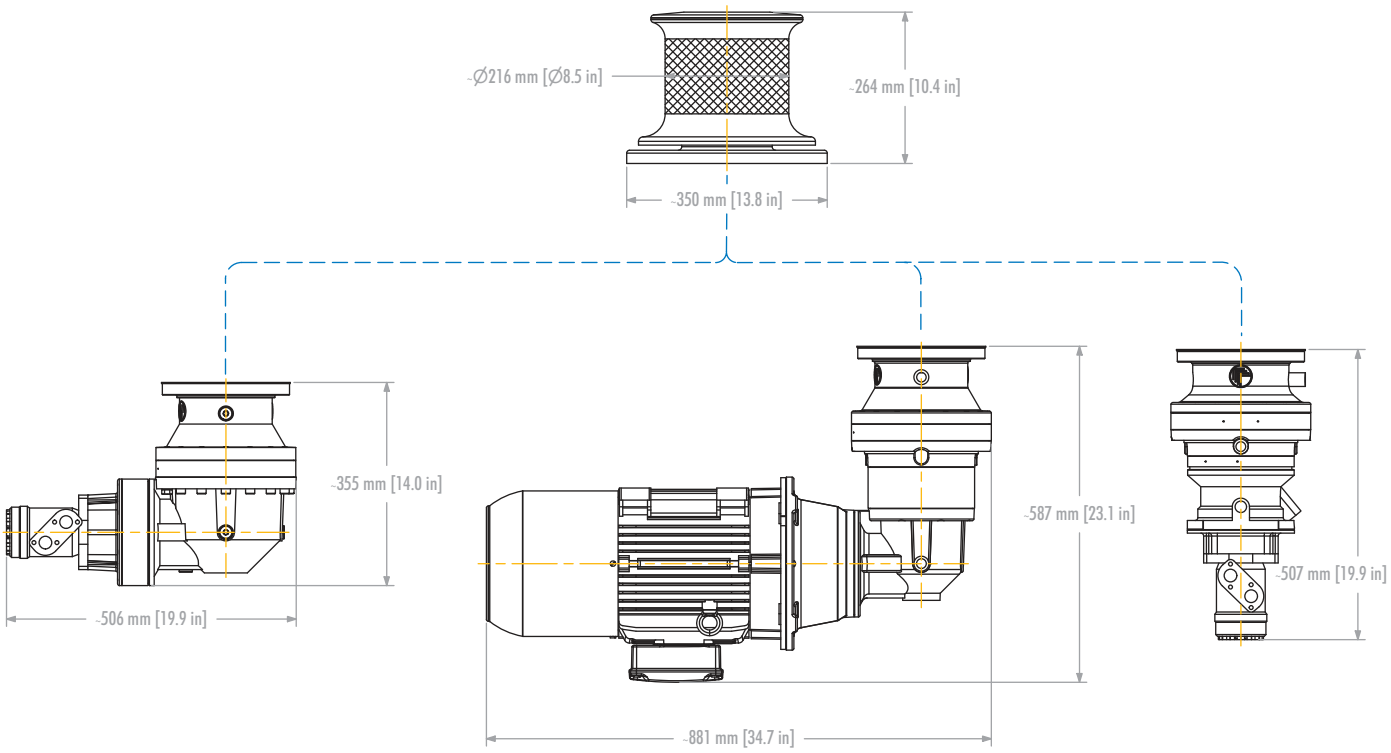
PERFORMANCE CRITERIA INDICATIVE ONLY

MODEL	VC 8000	VC 8000	VC 11000	VC 11000
Maximum Pull (kg/lb)	**3800** / 8360	**3800** / 8360	**5000** / 11000	**5000** / 11000
Continuous Pull (kg/lb)	**2200** / 4840	**3000** / 6600	**2600** / 5720	**4140** / 9108
Recommended Minimum Speed (m/pmin - f/pmin)	**10** / 33	**10** / 33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20** / 66	**20** / 66	**20** / 66	**20** / 66
Power Supply	**3PH / 50HZ**	**HYDRAULIC**	**3PH / 50HZ**	**HYDRAULIC**
Input Power (kW)	4/5.5		5.5/7.5	
Hydraulic Flow (l/pmin-USgpm)		**28** / 7.4		**30** / 7.9
Maximum Flow (l/pmin-USgpm)		**56** / 14.8		**60** / 15.8
Pressure (bar/PSI)		**175** / 2537		**175** / 2537
Maximum Pressure (bar/PSI)		**200** / 2900		**200** / 2900
Average Weight (kg/lb)	**169** / 372	**103** / 226	**193** / 424	

High Pressure 240 BAR
3600PSI optional

VC13000/15000

Powered Capstan



Right Angle Hydraulic Planatery Drive

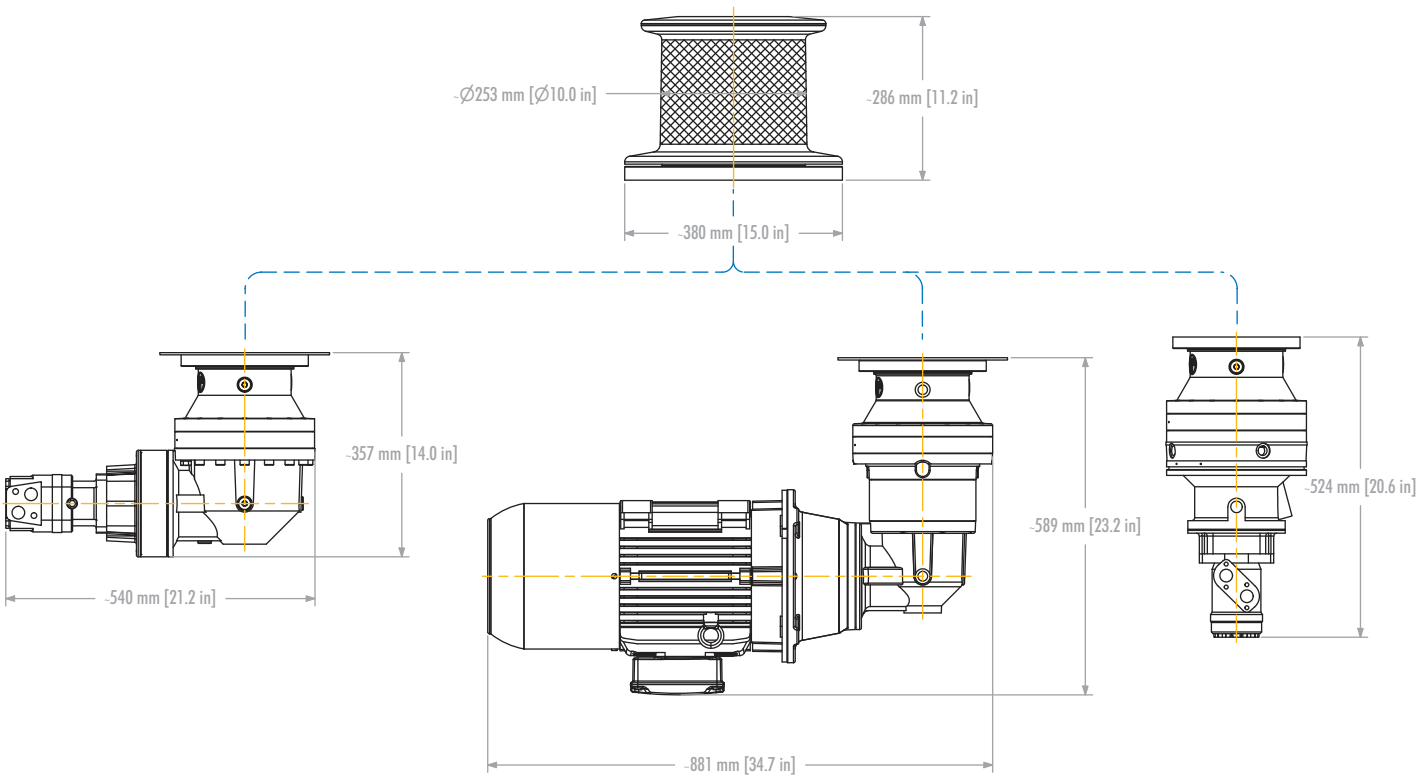
Right Angle Electric Planatery Drive

Inline Hydraulic Planatary Drive

PERFORMANCE CRITERIA INDICATIVE ONLY

MODEL	VC13000/15000	VC13000/15000	VC13000/15000
Maximum Pull (kg/lb)	**6818**/15000	**6818**/15000	**6818**/15000
Continuous Pull (kg/lb)	**3180** / 6966	**3180** / 6966	**3900** / 8580
Recommended Minimum Speed (m/pmin - f/pmin)	**10**/33	**10**/33	**10**/33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20**/66	**20**/66	**20**/66
Power Supply	**3PH/50HZ**	**3PH/60HZ**	**HYDRAULIC**
Input Power (kW)	7.5/9.2	7.5/9.2	
Hydraulic Flow (l/pmin-USgpm)			**30**/7.9
Maximum Flow (l/pmin-USgpm)			**60**/15.8
Pressure (bar/PSI)			**210**/3045
Maximum Pressure (bar/PSI)			**250**/3625
Average Weight (kg/lb)	**235**/517	**235**/517	**185**/407

VC18000
Powered Capstan

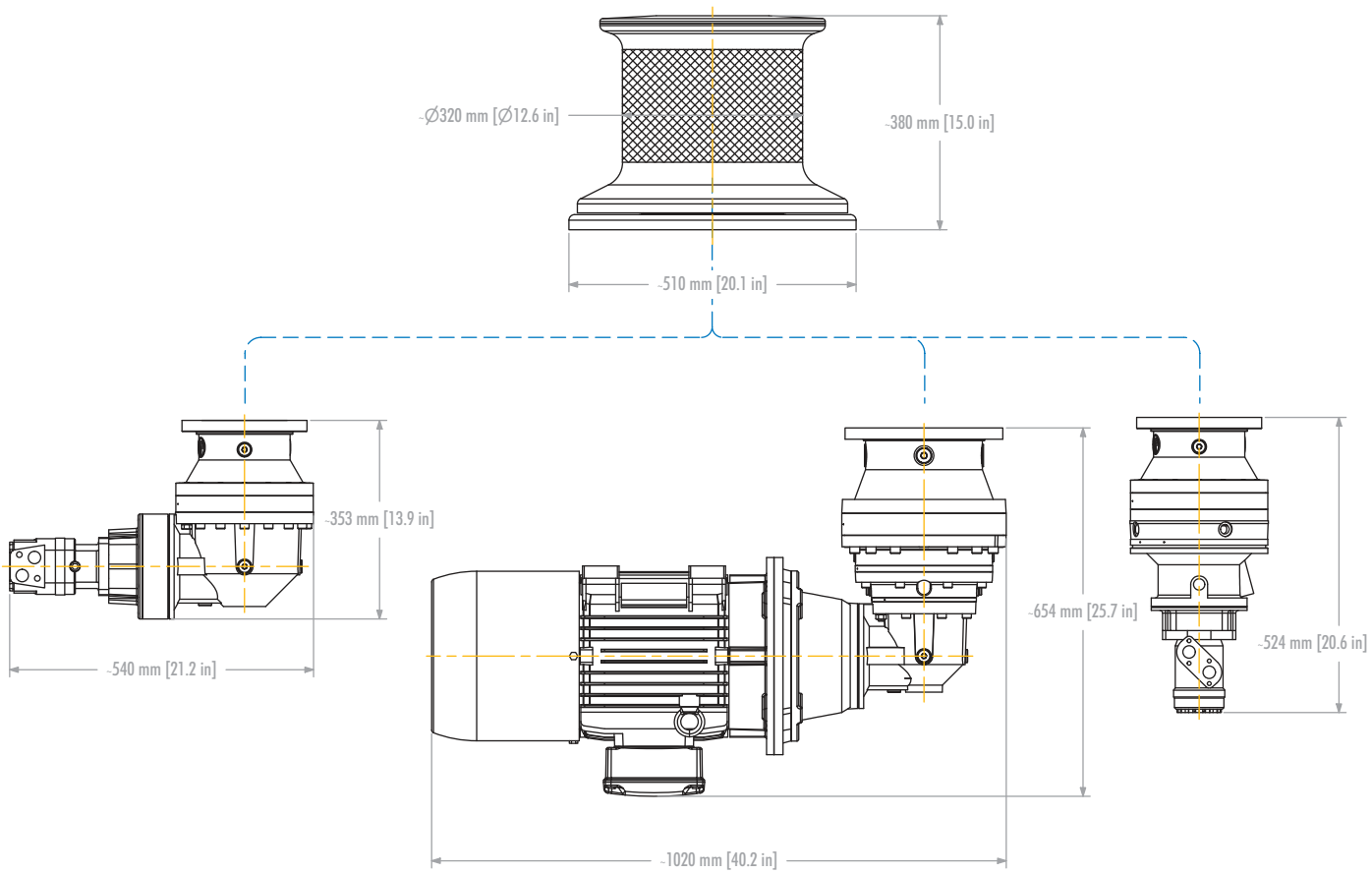


Right Angle Hydraulic Planatery Drive | **Right Angle Electric Planatery Drive** | **Inline Hydraulic Planatary Drive**

PERFORMANCE CRITERIA INDICATIVE ONLY

MODEL	VC 18000	VC 18000	VC 18000
Maximum Pull (kg/lb)	**8181**/18000	**8181**/18000	**8181**/18000
Continuous Pull (kg/lb)	**5000** / 11000	**5000** / 11000	**5700** / 12540
Recommended Minimum Speed (m/pmin - f/pmin)	**12**/40	**15**/50	**10**/33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20**/66	**20**/66	**20**/66
Power Supply	**3PH/50HZ**	**3PH/60HZ**	**HYDRAULIC**
Input Power (kW)	9.2 / 11	9.2 / 11	
Hydraulic Flow (l/pmin-USgpm)			**36** / 9.5
Maximum Flow (l/pmin-USgpm)			**72** / 19
Pressure (bar/PSI)			**210** / 3045
Maximum Pressure (bar/PSI)			**250** / 3625
Average Weight (kg/lb)	**338**/744	**338**/744	**276**/607

VC20000
Powered Capstan

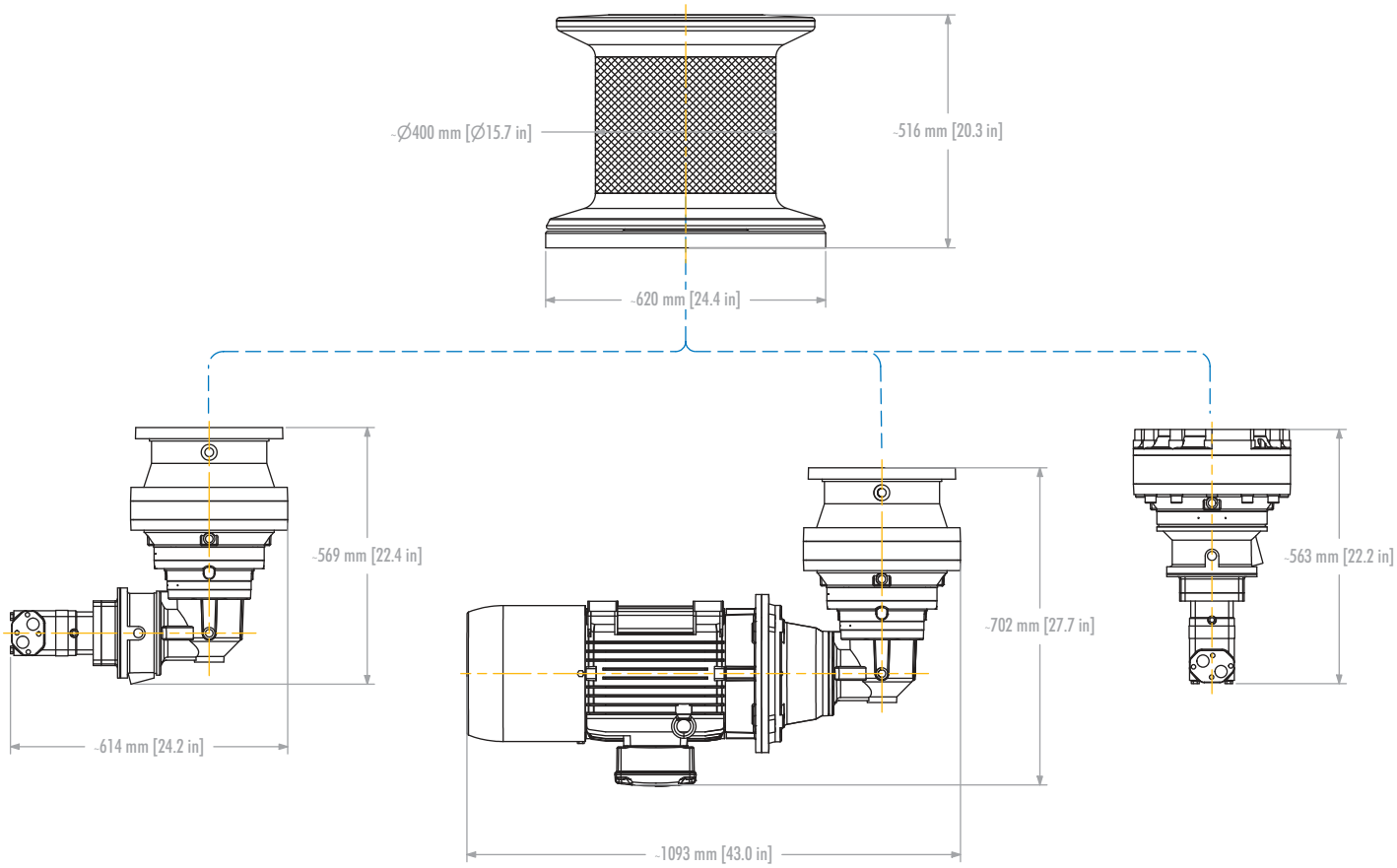


Right Angle Hydraulic Planatery Drive | **Right Angle Electric Planatery Drive** | **Inline Hydraulic Planatary Drive**

PERFORMANCE CRITERIA INDICATIVE ONLY

MODEL	VC 20000	VC 20000	VC 20000
Maximum Pull (kg/lb)	**9090**/20000	**9090**/20000	**9090**/20000
Continuous Pull (kg/lb)	**5200** / 11440	**5200** / 11440	**6100** / 13420
Recommended Minimum Speed (m/pmin - f/pmin)	**10** / 33	**10** / 33	**10** / 33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20**/66	**20**/66	**20**/66
Power Supply	**3PH/50HZ**	**3PH/60HZ**	**HYDRAULIC**
Input Power (kW)	9.2 / 11	9.2 / 11	
Hydraulic Flow (l/pmin-USgpm)			**40**/10.6
Maximum Flow (l/pmin-USgpm)			**80**/21.2
Pressure (bar/PSI)			**210**/3045
Maximum Pressure (bar/PSI)			**250**/3625
Average Weight (kg/lb)	**468**/1030	**468**/1030	**408** / 897

VC22000
Powered Capstan

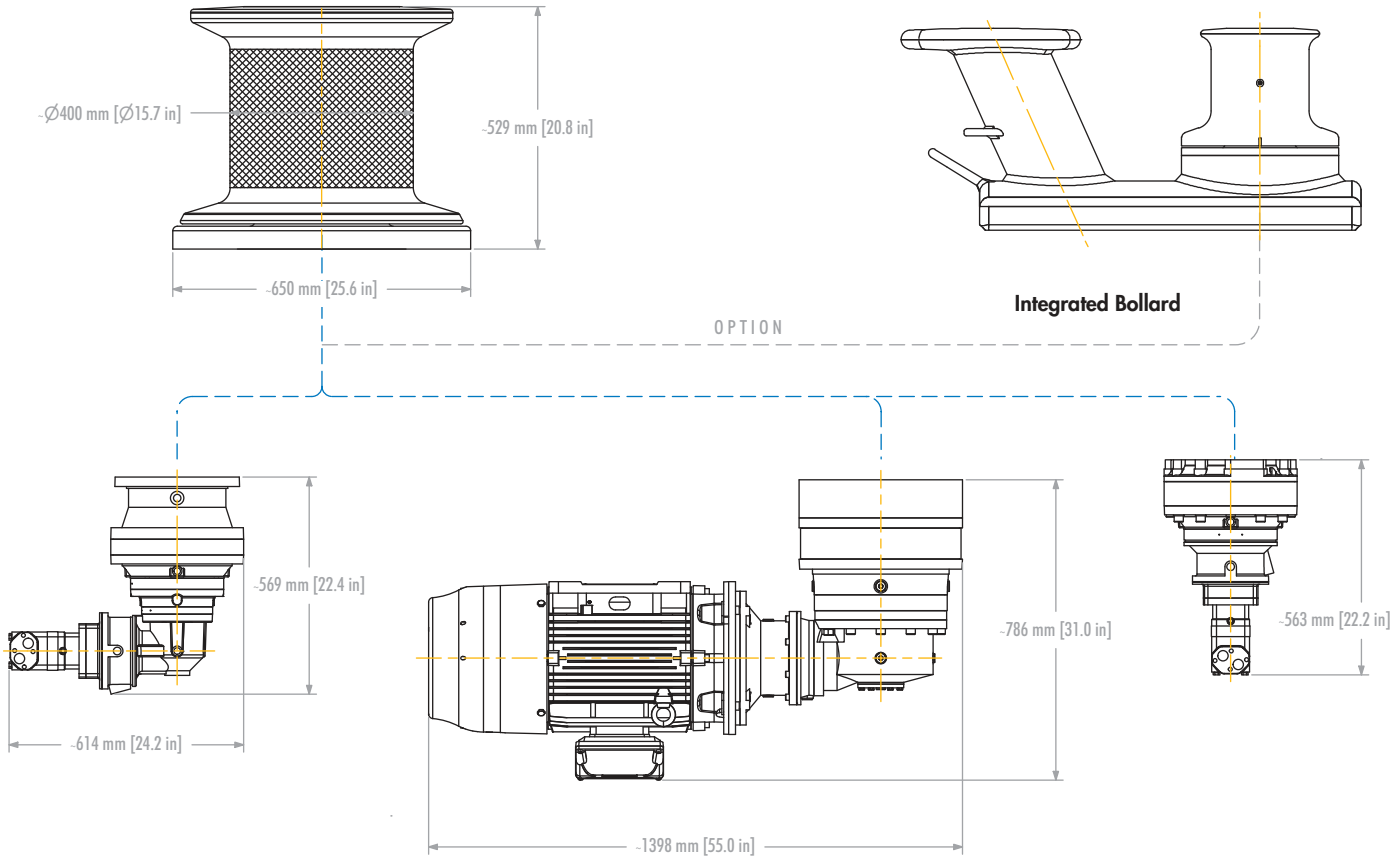


Right Angle Hydraulic Planatery Drive | **Right Angle Electric Planatery Drive** | **Inline Hydraulic Planatary Drive**

PERFORMANCE CRITERIA INDICATIVE ONLY

MODEL	VC 22000	VC 22000	VC 22000
Maximum Pull (kg/lb)	**10000**/22000	**10000**/22000	**10000**/22000
Continuous Pull (kg/lb)	**6060** / 13332	**6060** / 13332	**7200** / 15840
Recommended Minimum Speed (m/pmin - f/pmin)	**10**/33	**10**/33	**10**/33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20**/66	**20**/66	**20**/66
Power Supply	**3PH/50HZ**	**3PH/60HZ**	**HYDRAULIC**
Input Power (kW)	11 / 15	11 / 15	
Hydraulic Flow (l/pmin-USgpm)			**48**/12.7
Maximum Flow (l/pmin-USgpm)			**96**/25.4
Pressure (bar/PSI)			**210**/3045
Maximum Pressure (bar/PSI)			**250**/3625
Average Weight (kg/lb)	**770**/1694	**770**/1694	**645**/1419

VC24000
Powered Capstan



Integrated Bollard

Right Angle Hydraulic Planatery Drive

Right Angle Electric Planatery Drive

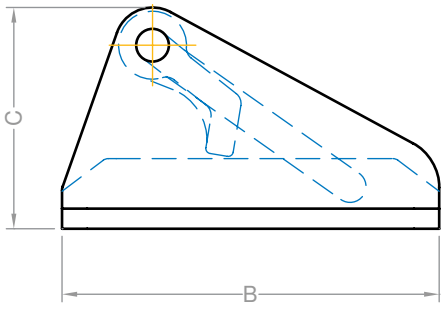
Inline Hydraulic Planatary Drive

PERFORMANCE CRITERIA INDICATIVE ONLY

MODEL	VC 24000	VC 24000	VC 24000
Maximum Pull (kg/lb)	**11000**/24000	**11000**/24000	**11000**/24000
Continuous Pull (kg/lb)	**7000** / 15400	**7000** / 15400	**8400** / 18480
Recommended Minimum Speed (m/pmin - f/pmin)	**10**/33	**10**/33	**10**/33
Maximum Recovery High Speed (m/pmin - f/pmin)	**20**/66	**20**/66	**20**/66
Power Supply	**3PH/50HZ**	**3PH/60HZ**	**HYDRAULIC**
Input Power (kW)	15 / 18.5	15 / 18.5	
Hydraulic Flow (l/pmin-USgpm)			**48**/12.7
Maximum Flow (l/pmin-USgpm)			**96**/25.4
Pressure (bar/PSI)			**210**/3045
Maximum Pressure (bar/PSI)			**250**/3625
Average Weight (kg/lb)	**955** / 2101	**955** / 2101	**940** / 2068

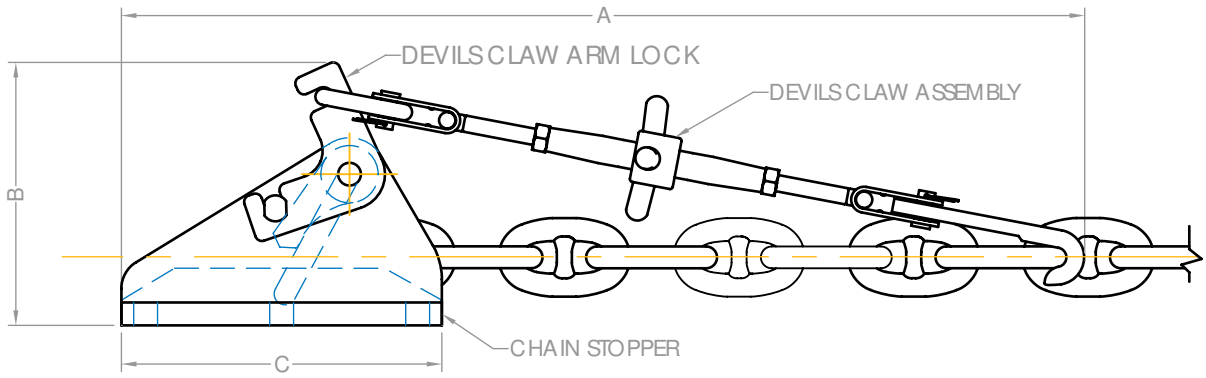
CHAIN STOPPERS

CHAIN SIZE SHORT LINK	A	B	C	D	E
10mm	112	150	88	28	44
13mm	130	185	111	33, 32	54
16mm	197	235	138	43	69.5
	198	238	143	41	70
	192	235	136	42	70
	198	238	136	42	70
CHAIN SIZE STUD LINK	**A**	**B**	**C**	**D**	**E**
16mm	209	235	138	43	82
	193	236	143	42	82
	209	238	143	42	82
17.5mm, 19mm	230	285	207	50	94
	230	285	202	50	94
20.5mm, 22mm, 24mm	270	300	205	65	116
20.5mm, 22mm	270	300	205	54	116
24mm, 26mm	280	280	255	71	110
28mm	310	375	256	55	134
34mm	350	385	275	50	160
38mm	388	460	350	76	180
38mm < 50mm			TBA		



Chain stoppers are strongly recommended for safe anchoring to protect and remove load from the windlass when at anchor, and to prevent accidental free fall of the anchor while under way. The hinged pawl allows the chain to be pulled up automatically, and is easily disengaged to deploy the anchor. To suit all chain types up to 50mm (1 31/32") with optional finishes in chromed bronze, traditional polished bronze, highly polished or bead blasted 316 stainless steel.

CHAIN STOPPER DEVIL CLAW

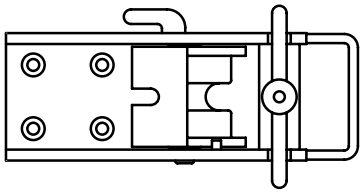


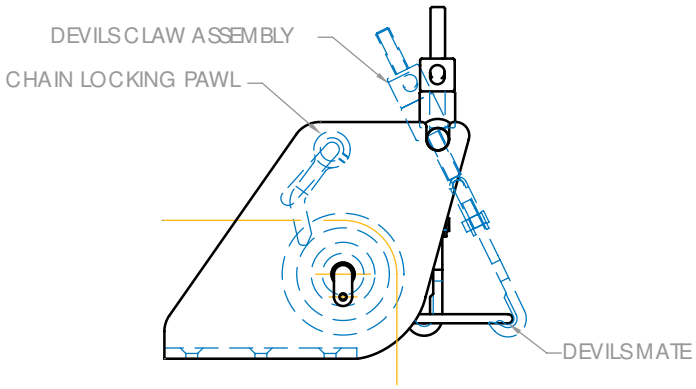
CHAIN	A	B
10mm	472	126
13mm	524	1632
14mm- 16mm	688	199
17.5mm-19mm	841	248
20.5mm- 24mm	857	280
24mm +	TBA	

Following the same principal of the conventional chain stoppers we combine a separate devil claw, this unique arrangement offers additional safety. The devil claw hooks onto the chain and provides tension on the chain while the anchor is stowed ensuring additional hold while underway. The devil claw can be easily removed or simply secured off to the side. The combined set provided increased safety. Available to suit any chain size, and finished in either chromed bronze, traditional polished bronze, highly polished or bead blasted 316L stainless steel.

HIGH PROFILE CHAIN STOPPER DEVIL CLAW ROLLER

Ideally suited when space is limited, these compact units remove load from the windlass, secure the stowed anchor and facilitate the chain transition. Finished in highly polished or bead blaseted 316L stainless steel. The devil claw is used to pull "home" the stowed anchor to prevent movement when travelling.



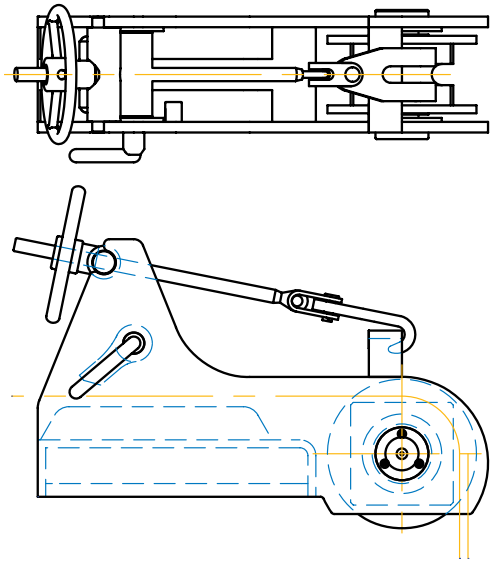


Available up-to 22mm U2

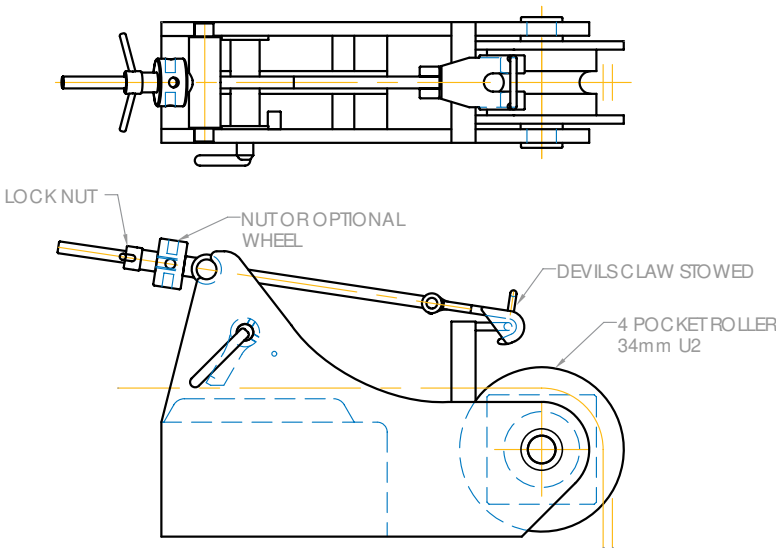
LOW PROFILE CHAIN STOPPER DEVILS CLAW ROLLER

These heavy duty units provide excellent protection for the windlass against stress and strain, with the added benefit of an integrated roller for smooth retrieval and deployment of the anchor rode. These models are available to accommodate chain up to 50mm, and is available in highly polished or bead blasted 316L stainless steel with four pocket bronze chain roller. The devil claw is used to pull "home" the stowed anchor to prevent movement when travelling.

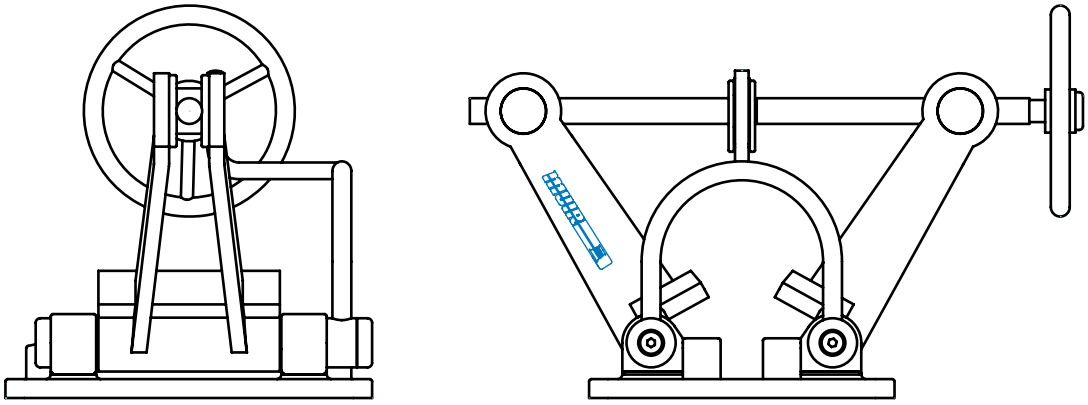
UP TO 26MM



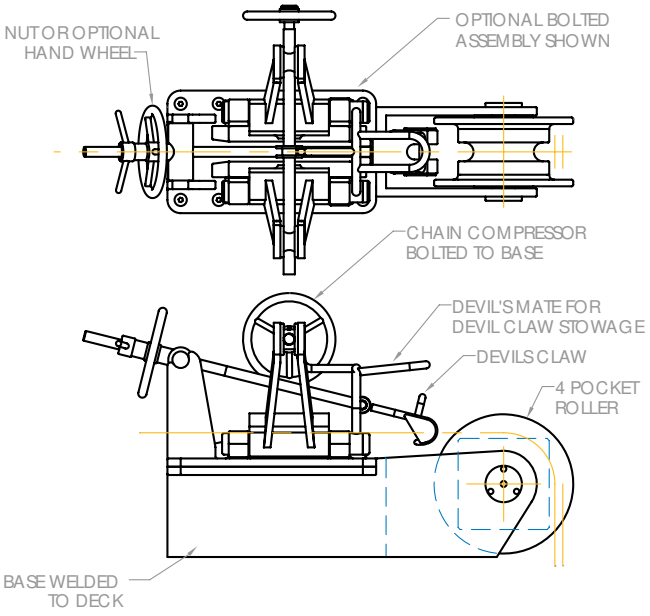
UP TO 50MM



CHAIN COMPRESSOR



CHAIN COMPRESSOR DEVIL CLAW ROLLER WITH BASE

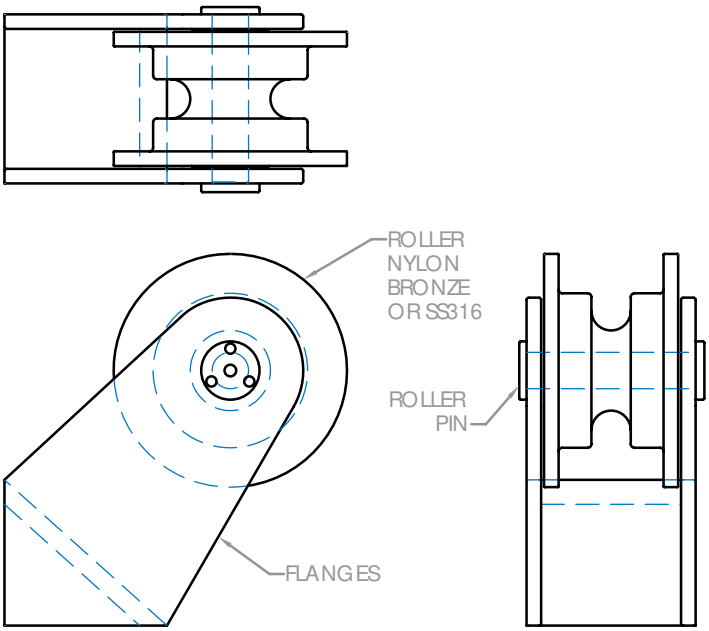


Suited to larger yachts and chain sizes, chain compressors protect the windlass from unnecessary load and strain by transferring the load of the chain through two clamping arms when at anchor. Tensioning of the hand wheel tightens the arms clamping the chain securely. A devils claw system is incorporated into the assembly and is applied when the anchor is stowed, as opposed to when at anchor, to ensure the anchor cannot be accidentally released while under way. The windlass clutch and band brake should be engaged as well for added safety.. Finished in choice of chromed bronze, traditional polished bronze, highly polished or bead blasted 316L stainless steel.

These units will suit chain up to 50mm U2.

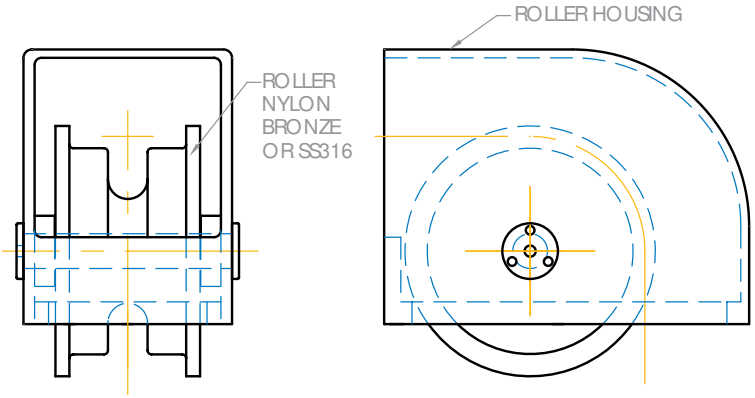
Variations in this range include Chain Compressor Devil Claw Roller Arrangement and Integral Chain Compressor Devil Claw Roller Arrangement (rasied base optional).

ROLLER WITH FLANGES

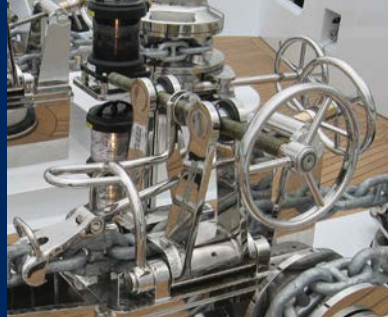


Muir can supply a range of roller and flange solutions for both bow rollers and chain return rollers. Rollers are available in bronze, bronze chrome, stainless steel or nylon. Flanges available in stainless steel, steel or aluminium.

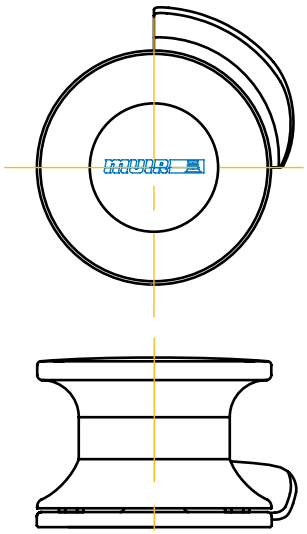
CURVED CHAIN PIPE ROLLER

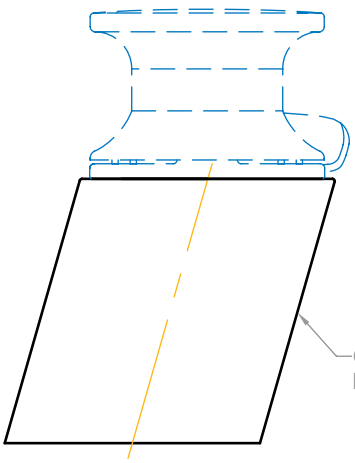


Chain Pipe Rollers facilitate smooth chain transition between the winch equipment and anchor locker spurling pipe. Available for all chain sizes, are finished in highly polished stainless steel. Rollers are available in bronze or nylon.



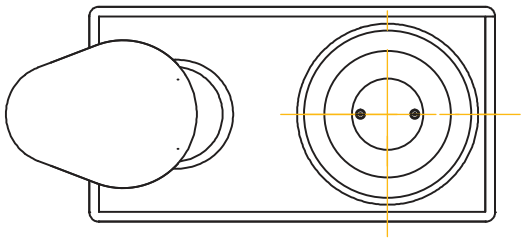
TURNING BLOCK FAIRLEAD

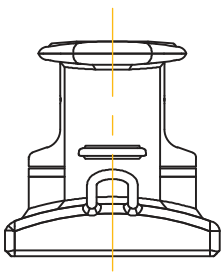


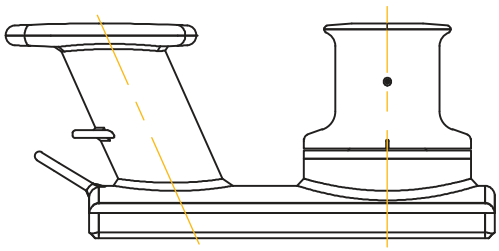


Muir free wheeling turning blocks aid and assist in the prevention of chafing and rubbing of mooring lines, and for rapid or severe alignment to capstans or windlasses. Equipped with double row sealed bearings, the robust construction ensures they are capable of withstanding the breaking strain of the line. Available in chrome bronze, traditional polished bronze or highly polished stainless steel, these units are custom built to suit particular requirements of the anchoring system components specified, and can be supplied as a pocket roller for anchor chain. Various sizes available.

INTEGRATED BOLLARD CAPSTAN







Available in all sizes from VC6000 and up, the integrated mooring bollard capstan reduces overall mooring system footprint and is designed with a strengthened base to meeting the static load requirements of a standard mooring bollard. Hand fabricated from high quality Stainless Steel plate, and available in polished, blasted or painted finishes. Can be customised to match existing bollard designs on your vessel if required.

CHAIN PIPE (CP)

Facilitate the feeding of the anchor rode through into the locker. Available in 316L stainless steel, chrome bronze or polished bronze finish, to suit all models and chain up to 30mm U2 (1 3/16").

CHAIN PIPE ROLLERS (CPR)

Facilitate smooth transition of anchor rode from the chain gypsy to stowage below deck and provide accurate chain placement. Available in polished 316L stainless steel, rollers bronze or nylon, to suit all windlass models and chain up to 50mm (1 31/32").

CONTROL CABINETS

Configured to suit all windlass voltages and applications in single, two or variable speed and for control of single or multiple windlasses and capstans. Finished in stainless steel or various coloured coatings, these units can be supplied to comply with classification requirements.

MUIR CHAIN + ANCHORS

A wide range and grades of galvanized, black, high tensile, studlink and shortlink chain available. Tested to comply with mechanical properties and ISO standards. Studlink chain can be supplied with test certificates to comply with all classification society requirements.

CHAIN COUNTER ENABLED

Auto Anchor AA150 Kit

AA150 CONTROL AND COUNTER

(Chain Counter Readout Only)

Standard Package


Sensor with 2m cable


2 X Magnet


Load sensing connectors

Installation/Operation booklet

Not included


Plug-and-play sensor extension


Sensor Holder (For horizontal windlasses)

Additional connectors, consoles, base stations and antennas sold separately.

*Please refer to the installation manual for your specific installation requirements.

FEATURES

- Rode length monitoring from the helm.
- Large LCD display with adjustable red backlighting shows length of anchor rode deployed. Display in feet or meters.
- Docking alarm warns skipper when anchor is close to docking.
- Pre-programmed calibrations for rope/chain rodes.
- Install up to two units or combine with the AA550RC, AA500C or AA601 for multiple stations.
- Standard 60mm (2.36") marine instrument console.

Auto Anchor AA560 Kit

AA560 CONTROL AND COUNTER

(Up/Down Control + Chain Counter Readout)

Standard Package


Sensor with 2m cable


2 X Magnet


Load sensing connectors

Installation/Operation booklet

Not included


Plug-and-play sensor extension


Sensor Holder (For horizontal windlasses)

Additional connectors, consoles, base stations and antennas sold separately.

*Please refer to the installation manual for your specific installation requirements.

FEATURES

- Improved contrast on the LCD
- Automatic Sensor Detection – no need to select sensor in the set up
- Manual control stop at docking distance – stops the windlass during retrieval when using manual and automatic operation
- Swap controls option in the set up – this option means the Up button can be used as Out and the Down button can be used as In
- Drum windlass counting capability
- Improved troubleshooting – Simplified diagnostics and built in voltmeter with expanded technician diagnostics

Auto Anchor AA710 Kit

WIRELESS

(Up/Down Control + Chain Counter Readout)

Auto Anchor AA730 Kit

WIRED

(Up/Down Control + Chain Counter Readout)

Standard Package


Sensor with 2m cable


2 X Magnet


Base station


Load sensing connectors


Stowage Cradle

Installation/Operation booklet


Deck socket with 2m lead


Socket Sealing Cap

AA710

AA730

Not included


Plug-and-play sensor extension


Sensor Holder (For horizontal windlasses)


Wireless Range Extender

Additional connectors, consoles, base stations and antennas sold separately.

*Please refer to the installation manual for your specific installation requirements.

AA700 SERIES
FEATURES

- Full windlass control and chain counting
- Controls bow and stern thrusters independently and together
- Preset the length of rode to deploy
- Auto stop and docking alarm when the anchor is close to docking
- Works with rope/chain or all-chain rode
- Logs windlass operating hours for maintenance
- Easy installation and set up on most windlasses
- Plug and play sensor installation
- Console unit is shockproof, waterproof and will float
- High level wireless transmission security with unique ID
- 4 metres spiral cable
- Electrical protection against back-emf
- Rubber over-moulding for shock protection and grip
- Stowage cradle
- Operation in parallel with all AutoAnchor produc, eg- toggle switches, foot switches or other control equipment
- Connect to DC, AC and Hydraulic systems
- Rugged cable and connectors

Auto Anchor - AA320 Kit

Designed for single windlass single speed Up/Down Control

2 Outputs
Single windlass single speed Up/Down Control

2 Buttons Up/Down

Control Only
No AA Functionality

Auto Anchor - AA342 Kit

Designed for duel windlass single speed Up/Down Control

4 Outputs
Duel windlass single speed Up/Down Control or Single Windlass Fast/Slow Up/Down Control

2 Buttons Up/Down Port
2 Buttons Up/Down Starboard

Control Only
No AA Functionality

Standard Package

Deck socket with 2m lead | Socket Sealing Cap | Stowage Cradle | Installation/Operation booklet

AA300 SERIES FEATURES

- Electrical protection against back-emf
- Ergonomic shape with rubber over-moulding for shock protection and grip
- Operation in parallel with all AutoAnchor products.
- Toggle switches, foot switches or other control equipment
- Connect to DC, AC and Hydraulic systems
- Rugged cable and connectors with:
  - Moulded plug and socket rated to IP67
  - 2m flying-lead from socket for better connectivity
  - Gold plated contacts on plug and socket to reduce corrosion

SCAN TO DISCOVER THE FULL AUTO ANCHOR

HEAVY DUTY HAND PENDANT

Heavy Duty Hand Pendants are recommended for vessels anchoring multiple times a day.

Heavy Duty - 2 Button Kit

Standard Package

Pendant Cable (Wired Pendant) | Installation/Operation booklet

2 Outputs + Emergeny Stop
2 Buttons Single Speed Up/Down
Available in wired and wireless versions
Control Only No AA Functionality

FEATURES

- Instantaneous action switches
- Dust-proof rubber/rubber-protected buttons/clamping screw adjustment sleeves
- IP 65 Protection according to CEI EN 60529
- Easy installation and easy (flexible/push-pull) connection of the switches
- Ergonomic and shock-resistant housing

Heavy Duty - 4 Button Kit

Standard Package

Pendant Cable (Wired Pendant) | Installation/Operation booklet

4 Outputs + Emergeny Stop
4 Buttons Two Speed Up/Down
Available in wired and wireless versions
Control Only No AA Functionality

FEATURES

- 2 Speed options
- Instantaneous action switches
- Dust-proof rubber/rubber-protected buttons/clamping screw adjustment sleeves
- IP 65 Protection according to CEI EN 60529
- Easy installation and easy (flexible/push-pull) connection of the switches
- Ergonomic and shock-resistant housing

FOOTSWITCHES

Heavy duty **footswitches** with marine grade covers and hard wearing U.V stabilized neoprene boot and each unit is supplied with instructions and fitting screws. Suitable for 12 and 24 volt applications, nickel plated copper contacts provide corrosion free operation. Available in multiple finishes.

Heavy-Duty Deck Foot Switch

Cover Variations

Black ABS | White ABS | Polished 316 Stainless | Bronze Coated Aluminum

Available in single speed and two speed versions.

FEATURES

- Compatible with DC, AC and Hydraulic windlasses with control cabinets
- 1 Up Switch and 1 Down Switch
- Open contact, 150 Amps continuous rating
- Made from UV-stabilized ABS Plastic
- Nickel-plated copper contacts
- Strong Hinged Cover to prevent accidental operation

Heavy-Duty Deck Foot Pedal Switch

FEATURES

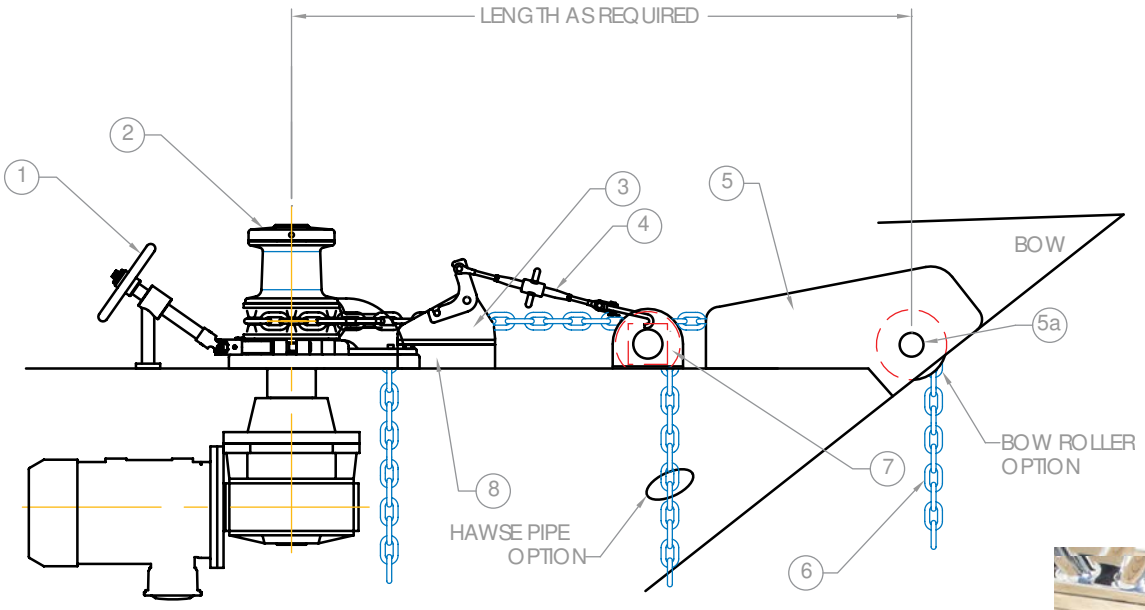
- Compatible with DC, AC and Hydraulic windlasses with control cabinets
- 2-pedal type
- Thermoplastic enclosure
- Small flat design
- Wiring compartment
- Micro switches (1-pole change-over contact per pedal) for current load up to 5 A

Remote Up/Down Control

FEATURES

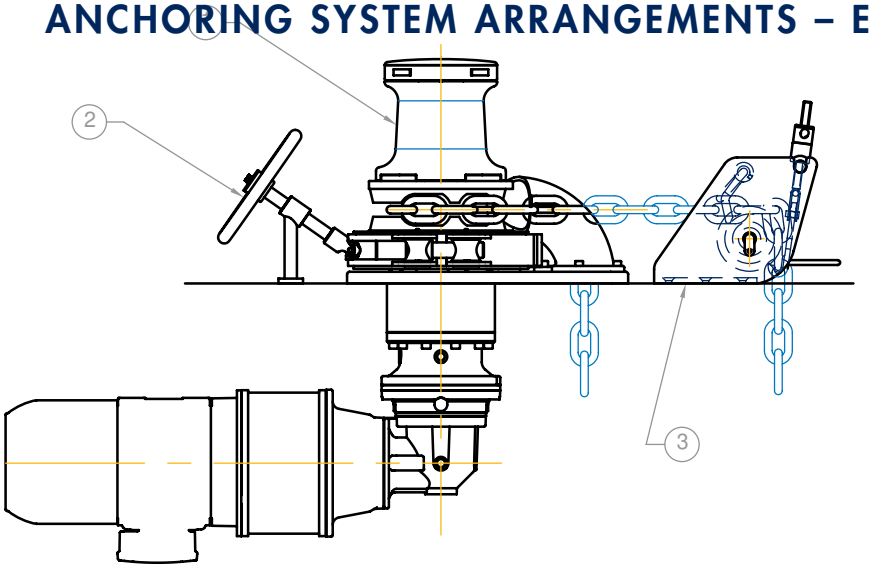
- Allows simple remote operation of all windlasses from the helm, flybridge, or cockpit.
- Modern and sleek design, making it easy to install and use.
- Manufactured from durable marine-grade materials to withstand harsh marine environments.
- Fitted with power indicator lights for easy monitoring.
- Available in both 12V and 24V DC, suitable for various power systems.

ANCHORING SYSTEM ARRANGEMENTS – EXAMPLE A



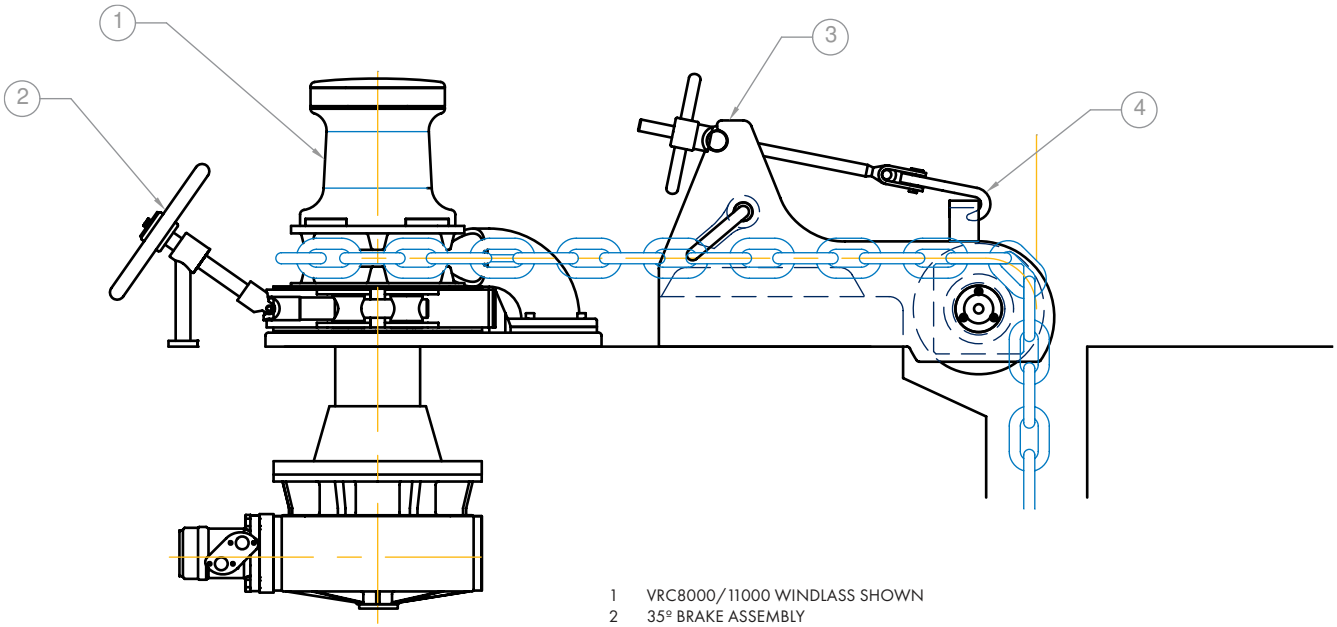
1 OPTIONAL 35 DEG BRAKE HANDLE
2 VRC4500 WINDLASS
3 CHAIN STOPPER - BRONZE
4 DEVILS CLAW KIT WITH ARM LOCK
5 CHANNEL ASSEMBLY - STAINLESS STEEL
5A CHAIN ROLLER – STAINLESS STEEL
6 CHAIN AND ANCHOR SYSTEMS
7 CHAIN ROLLER
8 CHAIN STOPPER SPACER – STAINLESS STEEL

ANCHORING SYSTEM ARRANGEMENTS – EXAMPLE B



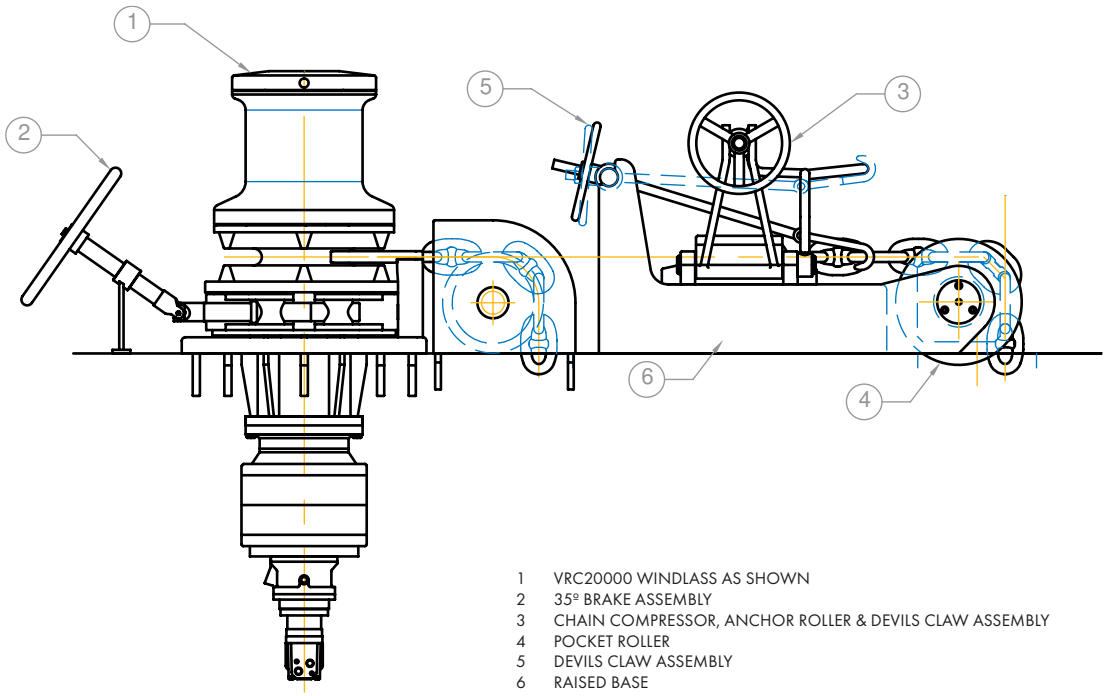
1 VRC8000/11000 WINDLASS SHOWN
2 35º BRAKE ASSEMBLY
3 HIGH PROFILE ROLLERLOCK / DEVILS CLAW ASSEMBLY

ANCHORING SYSTEM ARRANGEMENTS – EXAMPLE C



1 VRC8000/11000 WINDLASS SHOWN
2 35º BRAKE ASSEMBLY
3 LOW PROFILE ROLLERLOCK / DEVILS CLAW ASSEMBLY
4 DEVILS ARCH ASSEMBLY

ANCHORING SYSTEM ARRANGEMENTS – EXAMPLE D



1 VRC20000 WINDLASS AS SHOWN
2 35º BRAKE ASSEMBLY
3 CHAIN COMPRESSOR, ANCHOR ROLLER & DEVILS CLAW ASSEMBLY
4 POCKET ROLLER
5 DEVILS CLAW ASSEMBLY
6 RAISED BASE


CROWN
C533P


KEEP FACTORY
clean & tidy
AT ALL TIMES

GLOSSARY OF TERMS

AMPS Workload – determined as up to the maximum amps.

Anchor Rode – the line that secures the anchor to the vessel, consisting of either rope, chain or a combination of rope and chain.

Bollard – an upright round post with projecting arm, for belaying and snubbing dock or anchor lines.

Bridle – chain stopper/compressor, devils claw. Located between the winch and bow roller. Secures chain and takes load off the winch/windlass.

Capstan – drum, rope drum. The capstan is used for hauling rope.

Chain Locker – the storage compartment in which the chain occupies.

Chain Pipe/Chain Pipe Roller – chain pipe that anchor rode feeds through into locker.

Chain Stopper – located between the winch and the bow roller (or hawse pipe), it secures the chain and anchor and takes the load off the winches.

Continuous Pull – is nominally 50% of the maximum pull. (Also workload)

Displacement – the amount of water displaced by a floating vessel, usually measured in tonnes.

Draft (Draught) – is the vertical distance between the waterline and the bottom of the hull (keel), with the thickness of the hull included.

Fixed drive – direct couple from transmission to gypsy/capstan.

Free Fall – release of clutch manually releases the chain to freefall without power.

Gypsy – chain wheel (Wild Cat) is the sprocket around which the chain is wrapped on the windlass.

Hauling – weighing, lifting. The operation of lifting anchor, rope or chain.

Horizontal windlass/winch – drive shaft, capstan and gypsy are located horizontally to the deck.

Inline drive – powerful and efficient integrated gearbox and motor.

Maximum Pull – is the peak intermittent pull.

Max Line Speed – maximum speed the anchor rode could be retrieved at.

Spurling Pipe – mounted below deck it is the means to guide the chain into the anchor locker.

VFD (Variable Frequency Drive) – an electronic device used to control the AC motors by varying the alternating frequency of the voltage supplied to the motor from a constant source.

Vertical windlass/winch – drive shaft, capstan and gypsy are located vertically to the deck.

Weigh – to weight anchor (to lift - anchor).

Windlass – a vertical or horizontal mechanical apparatus manually, electrically or hydraulically operated for pulling or hoisting anchor and cable (chain or synthetic rope), incorporating a circular chain wheel or gypsy normally with a minimum of five pockets into which anchor chain links fit snugly.

Muir Commercial Range

Established in 1968, Muir has become a dominant force in anchoring and mooring technology, recognised today as the anchoring system choice for a large variety and size of luxury motor and sail yachts.

Muir design and manufacture one of the largest ranges of anchoring and mooring systems for vessels up to 150 metres.

Muir have designed and produced anchoring and mooring equipment having set Industry Standards and benchmarks over many years. Continued investment in research and development, design and innovation, keeps Muir at the forefront of the yachting industry. The development of high power to weight ratio equipment with the combination of highly efficient planetary drive gears, medium to high pressure hydraulics, one, two or variable speed AC electric drives will achieve the ideal anchoring system to suit your vessel.

Muir surpass or meet the world's most stringent classification requirements including ABS, LRS, DNV, BV, NKK, GL, CCS, RINA, RRR, RMSR and comply with MCA and USL codes.

Muir running gear is available in polished 316L stainless steel, manganese bronze, chromed bronze and aluminium bronze.

316L polished stainless steel anchor windlasses and mooring capstans of all sizes are being manufactured in larger volumes today resulting in increased affordability.

A Muir anchoring system provides long term reliability, durability and dependability.

Muir Recreational Range

Selecting the appropriate windlass and ground tackle for your vessel and application ensures efficient deployment and retrieval of your anchor irrespective of anchoring or weather conditions. An undersized windlass may well compromise the safety of your vessel and crew. Choosing the right one should prevent costly repairs and damage.

When selecting a windlass there are a number of factors that need to be considered: vessel type, length and displacement, anchor and chain size, windage and the anchoring environment.

A windlass is often exposed to harsh elements therefore it is important to consider the materials and components it is manufactured from. Muir windlasses incorporate high quality components including chromed bronze and high quality marine grade 316 Stainless Steel running gear, stainless steel drive shafts and marine coated alloy housings, to ensure strength, durability and long term usage.

A powered windlass with some form of manual operation or override is always a wise choice and ensures peace of mind that the anchor can be retrieved if power failed or in an emergency. The type and style of windlass you select will depend on the depth of the chain locker, the fore deck layout, power options and personal preference.

Muir products are sold, serviced and supported worldwide.

AUSTRALIA • EUROPE • USA • ASIA • PACIFIC • AFRICA

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SCAN FOR YOUR LOCAL MUIR

The Muir Quality Management System is certified as being in conformity with ISO9001.

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QUALITY ASSURED JAS-ANZ ISO9001

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