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DEFINITIONS

Maximum Working Load (M.W.L.)

Maximum Working Load (M.W.L.) is the maximum static and/or dynamic load at which the product will still function without excessive friction, distortion, wear or permanent deformation of components. Above this load, bearing systems may fail, moving parts may seize and stainless steel or plastic components may begin to bend, stretch or otherwise deform. Maximum working loads should never exceed half of the breaking load and should never be exceeded in use.

Breaking Load (B.L.)

Breaking Load (B.L.) is the load at, or around which, a major failure can be expected to occur to some part of the product's structure when new. Plastic components may split, rivets may give way, shackles may break, and other metallic components may fracture. Stated values for Breaking Load refer to a test load situation representative of a product's typical use and applications. Load situation and circumstances of actual use may vary, affecting the load at which a major failure may occur. No product should be used at more than half of the stated Breaking Load, so as to provide a minimum safety factor of two (2).

CUSTOMER CONSIDERATIONS

Product Information Amendments

All catalogue information is subject to specification changes during a product's life cycle. Any alterations will be posted on the website www.ronstan.com, which should be considered the most up to date source of product information.

Factor of Safety

An appropriate factor of safety should be applied to Breaking Load figures to suit each application before choosing or specifying a particular product. For many industrial and safety related applications, and for some yachting applications, a factor of safety greater than two (2) should be used or may be required by law or other regulations. It is the customer's responsibility to ensure that an appropriate factor of safety is used, and it should allow for factors including but not limited to safety implications, service life, fatigue (as may be caused by wave action, wind stresses or repetitive cyclical loading), type of load (e.g. cyclic, shock, rotational speed), orientation of load, environment (e.g. exposure to ultraviolet light, temperature extremes), corrosion and stress corrosion. Note that a 'safe working load' is not specified as this is dependent on the factor of safety, which must be determined by the user relative to each application.

Useful Life

The useful life of any product is determined by the above factors and must be assessed in each application, and thus no guarantee can be provided for product life, load capacity or any other factor due to the variability in usage. In some jurisdictions government regulations require the replacement of rigging components within certain periods of time, usually every three to five years. You must ascertain whether any such regulations affect you. While every precaution is taken in the product design and manufacturing processes to minimise the effects of corrosion and stress corrosion, there are also preventative as well as corrective treatments that can be carried out after installation. Contact your local representative for further assistance and advice.

Warranty

Details of Ronstan's Product Warranty can be found under the SUPPORT tab at www.ronstan.com.

Fittings and Equipment

General guidance on fittings and equipment can be found under the SUPPORT tab at www.ronstan.com.

Distributors

Ronstan products are available through a great distribution network that extends to more countries than we can list on this page. Contact details for your nearest distributor can be found at www.ronstan.com.

TRADEMARKS

Trademark Acknowledgements

- Clamcleat® is a registered trademark of Clamcleats Limited
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Registered Ronstan Trademarks

- Ronstan® is a registered trademark of Ronstan International Pty Ltd
- Andersen Stainless Steel Winches® is a registered trademark of Ronstan Denmark ApS

Ronstan Trademarks

- Andersen Winches™ (winches)
- Ballslide™ (batten cars)
- Battlestick™ (tiller extensions)
- BoatSmart™ (boat care products)
- Captive Lock™ (utility blocks)
- C-Cleat™ (cam cleats)
- ClearStart™ (sailing timer and watches)
- Compact Motor™ (electric winches)
- Core Block™ (blocks)
- Orbit Block™ (blocks)
- Orbit Winch™ (winches)
- Power Rib™ (winches)
- Quick-Lock™ (winch handles)
- QuickTrim™ (winch trim functionality)
- RopeGlide™ (Shocks™, rings, fairleads)
- Sailfast™ (silicon spray)
- Shock™ (sheaveless block)
- T-Cleat™ (cam cleats)
- Triggersnaps™ (trigger snap shackles)
- Ultimate Ratchet Block™ (ratchet blocks)
- V-Cleat™ (rope cleats)

BLOCKS	
CLEATS & CLUTCHES	
RUDDER & TILLER	
TRACK & TRAVELLER SYSTEMS	
FURLERS	
BATTEN CAR SYSTEMS	
MISCELLANEOUS HARDWARE & ACCESSORIES	
SAILING GEAR & ACCESSORIES	
STAINLESS STEEL HARDWARE	
RIGGING HARDWARE	
INDUSTRIAL PRODUCTS	
ORBIT WINCHES™	
 ANDERSEN STAINLESS STEEL WINCHES®	
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