

# Definitions, Considerations & Warranty

## 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. No product should be used at more than half of the breaking load, so as to provide a minimum safety factor of two (2).

## CUSTOMER CONSIDERATIONS

### Product Information Amendments

To the best of our knowledge all catalogue information was correct at the time of publication, but changes may occur during a product's life-cycle. Any alterations will be posted on the website. Please compare issue dates of the website and catalogue, to ascertain the latest information. If there is any doubt to the specification of a product, consult your local Ronstan sales office for confirmation.

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](http://www.ronstan.com)

## CUSTOMER CONSIDERATIONS

### 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 safety implications, service life, fatigue (as may be caused by wave action, wind stresses or repetitive cyclical loading), type of load, exposure to ultraviolet light, corrosion and stress corrosion. Note that Ronstan does not specify a 'safe working load' 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. Whilst Ronstan takes every precaution in their product design and manufacturing processes to minimize the effects of corrosion and stress corrosion, there are also preventative as well as corrective treatments that can be carried out after installation.

## WARRANTY

In addition to your rights implied by law, Ronstan International Pty Ltd (and its subsidiaries) warrants the goods manufactured or sold by it to be free of defects in materials or workmanship for three (3) years, and a one (1) year warranty for clothing, and unless otherwise stated, from the date of purchase by the original purchaser except that:

- This warranty shall not apply to any product which has been improperly fitted, improperly maintained, or used in any application for which it was not intended.
- This warranty shall not apply to normal wear which can reasonably be expected in normal use of the product.
- Ronstan makes no warranties that its products are fit for a particular purpose.
- Ronstan's liability shall be limited to the repair or replacement, at its discretion, of the defective goods.
- This warranty shall not apply to products installed in severe chlorine or high humidity environments (eg. covered swimming pools), due to potential stress corrosion and reliance on appropriate cleaning methods.

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