LOADSHACKLE / ENGINEERING REFERENCE GUIDE

Source-labelled shackle rating chart and fit guide

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Original-maker bare-hardware reference only. Not an LSH rating, issued GA, certificate or lifting instruction.

How to use this reference

Identify the original maker, model, part and source drawing before comparing rows. Source WLL is stated in metric tonnes for the named bare hardware. No row rates a modified LSH assembly.

Dimensions in this guide are the published metric values. Divide mm by 25.4 for a converted inch value. A conversion does not create a nominal size, fit or manufacturing tolerance.

Crosby pin symbol B / jaw symbol A; Green Pin pin symbol B / jaw symbol E. Read the source drawing.

Pin and jaw cells show published mm / converted inch values. Converted decimals do not add precision or define nominal sizes. WLL and mass retain the manufacturer's metric units.

Crosby G-2130 original bare-hardware rows

Original manufacturer source: https://www.thecrosbygroup.com/wp-content/uploads/catalog/2022/en/26.pdf

Source part	WLL (metric t)	Pin B (mm / in)	Jaw A (mm / in)	Mass (kg)
1019490	3.25	19.1 / 0.7520	26.9 / 1.0591	0.62
1019533	6.5	25.4 / 1.0000	36.6 / 1.4409	1.79
1019597	12	35.1 / 1.3819	51.5 / 2.0276	5.31

Green Pin G-4163 original bare-hardware rows

Original manufacturer source: https://www.greenpin.com/en/product/green-pinr-bow-shackle-bn

Source part	WLL (metric t)	Pin B (mm / in)	Jaw E (mm / in)	Mass (kg)
GPGHMB16	3.25	19 / 0.7480	27 / 1.0630	0.74
GPGHMB22	6.5	25 / 0.9843	36 / 1.4173	1.77
GPGHMB32	12	35 / 1.3780	51 / 2.0079	4.91

Instrumented-assembly boundaries

A body WLL, a sensor force range, a calibration record and structural proof identify different scopes. One is not a substitute for the others.

At standard gravity, 1 tonne-force corresponds to 9.80665 kN. Unit conversion does not create a hardware rating.

A two-leg sling angle is different from a shackle side-load angle. Do not import another model's side-load factors into an LSH proposal.

The selected 3.25 t source rows have 19.1 mm and 19 mm nominal pin values; that 0.1 mm difference is not a tolerance or a finding of interchangeability.

Check usable bobbin width, mating eye, support span, keeper/signal exit and headroom on the actual proposed assembly drawing.

SI conversion reference: https://www.nist.gov/pml/special-publication-811/nist-guide-si-appendix-b-conversion-factors/nist-guide-si-appendix-b8

Project and required interfaces

Source maker / exact model / part number / table revision: _____

Pin / jaw / usable bobbin / mating eye / headroom: _____

Instrumented assembly range / output / readout request: _____

Body-origin request and proposed modification scope: _____

Supply and acceptance scope to agree

Requested WLL / force range AND units: _____

Quantity / matched set / destination / requested date: _____

Existing drawing and revision: _____

Company / project and unresolved points: _____

Requested records: [drawing / material / calibration / proof / NDT / applicable conformity / witnessing]

These are project requirements, not a statement that the requested configuration is already approved or available. Confirm the actual model, offered scope, price and delivery in writing.

Agree confidentiality before sharing sensitive drawings. Attach CAD in your own email application.

Request separate quotation for engineering/tooling, test fixtures, special material/finish batches, witnessing, packaging, freight and taxes.

Reference page: https://loadshackle.com/guides/shackle-load-rating-chart-pdf