

Lifting Clutches

Discard Criteria

This document provides important product and safety information for the ongoing inspection of ReidTM SwiftliftTM and Edge Lifting Clutches.



Discard Criteria

Lifting Clutches Discard Criteria



This discard criteria document, provides very important product and safety information critical for inspecting Reid™ SwiftLift™ and Edge Lifting clutches on an ongoing basis.

Reid™ require that all such lifting clutches, in accordance with New Zealand standards, be tested by a competent person, in a qualified and competent facility, in the following occasions:

- prior to initial use (2x WLL);
- at least annually once in service (see note below);
- whenever the clutch has been loaded greater than the stated WLL;
- whenever the user believes the lifting clutch may fail to meet the criteria in the tables below and wishes a further opinion on the need to discard.

Reid™ (ITW Australia Pty Ltd) will in no way be liable for any loss, damage, cost or expense (including consequential loss, damage, cost or expense), in circumstances where this product has not been used strictly in accordance with the Reid™ Usage Guidelines and Discard Criteria document; where the product has not been tested in accordance with applicable New Zealand standards and/or Good Practice Guides; where the product has been modified in any manner; or where the product has been used with lifting or associated products that have not been manufactured and supplied by Reid™.

Where a clutch has been determined to be discarded, it shall be removed from service, the reason for discard recorded, and destroyed in a method preventing further use (i.e. cutting through the torus/sphere); or returned to Reid™.

Please note

- New Zealand:** GPG - Safe Work with Precast Concrete 2018 requires all lifting clutches to be proof tested to 2x WLL annually.



NZ GPG 2018
Compliant



Advice & Testing

Where any doubt exists, please contact your local Reid™ representative for guidance.

New Zealand:
Phone 0800 882 212 or
email sales@ramsetreid.co.nz

Critical Discard Measurements



If any of the below criteria are not met, the clutch should be removed from use and discarded immediately.



Please refer to the Product Specification Tables for Critical Discard Measurements.

1. Must NOT BE LESS THAN the critical discard measurement

- (D) – The crown of the Handle
- (E) – The loop through the sphere or torus
- (LR) – Edge lift clutch; the thickness of the locking ring
- (M) – The thickness of the lip on the sphere in lifting eyes

2. Must NOT EXCEED the critical discard measurement

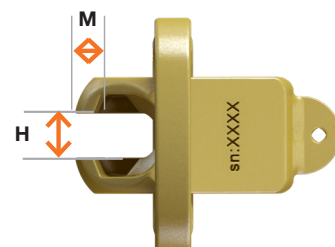
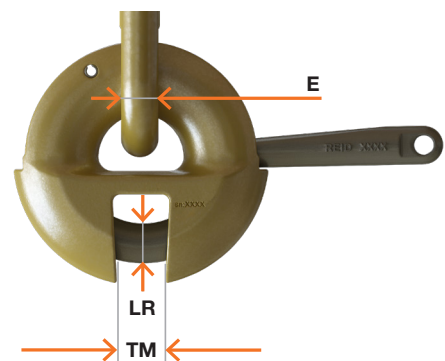
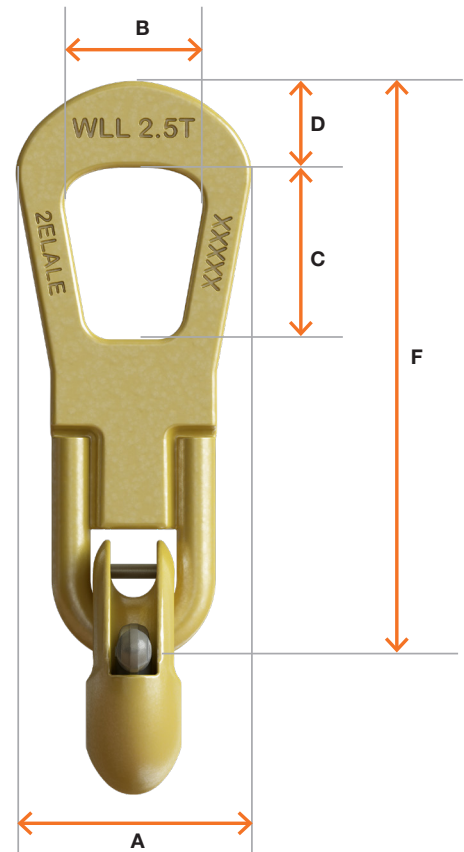
- (TM) – Edge lift clutch; the slot in the torus
- (H) – lifting eye clutch; the slot in the sphere

3. Other Factors...

- The lifting clutch must remain true to the dimensions and form according to the product specification table on pg4 & pg5, with the exceptions listed above (items 1 to 2) – equating to no measurable distortion in either plane of the handle.
- Additional reasons for discarding any lifting clutch include:
 - (a.) any sign of cracking or other abnormal deterioration (such as bending, bruising, elongation, etc...); and
 - (b.) any failure to accept a normal anchor.
- It is not uncommon for lifting clutch handles to be bent slightly under site conditions. If the angle of bend is greater than five degrees (see below), the lifting clutch must be discarded.



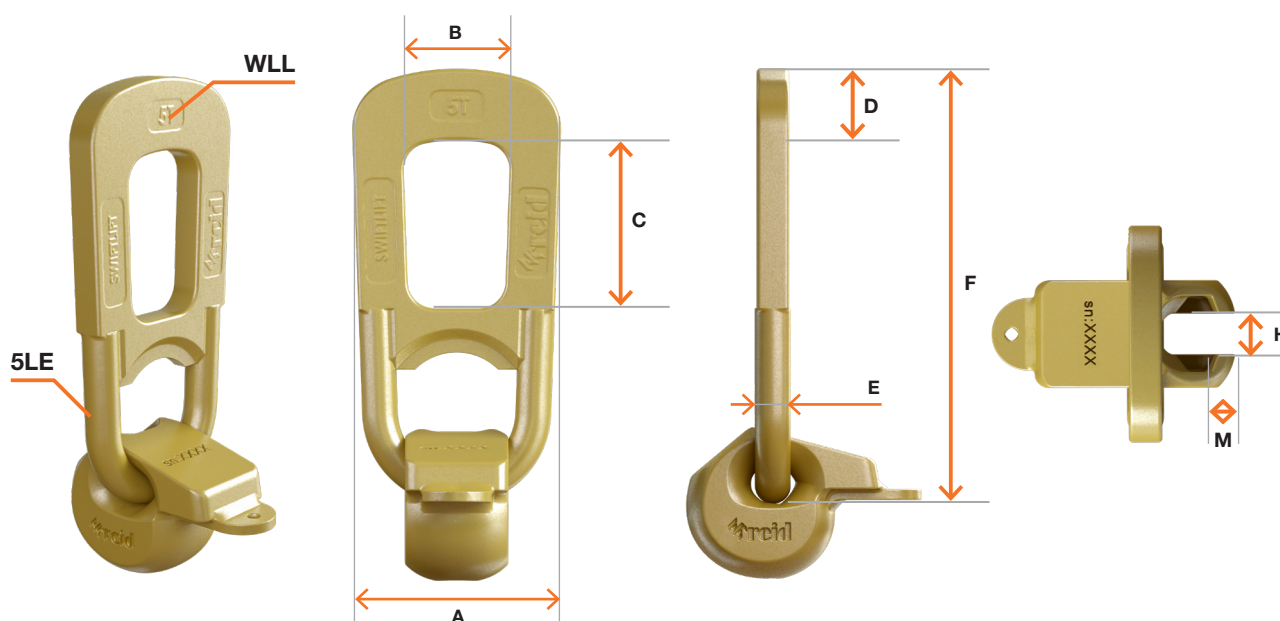
Lifting Clutch Handle



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Reid™ SwiftLift™ Lifting Eye Clutches



Product Specifications (mm)

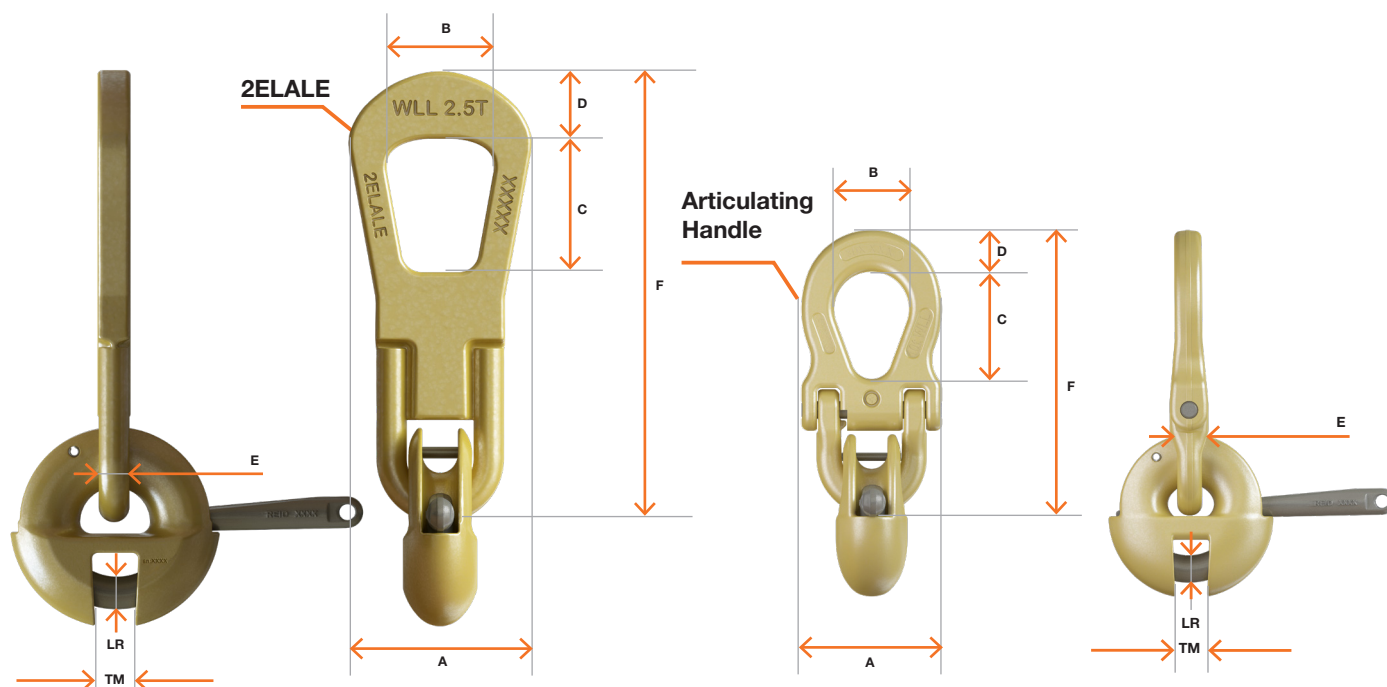
CLUTCH	Working Load Limit (tonnes)	Nominal Dimensions (mm)						
		A	B	C	D	E	F	G
1LE	1.3	75	48	71	21	12.5	164	32
2LE	2.5	88	64	85	25	14.5	194	42
5LE	5.0	118	67	88	36	20	237	57
10LE	10.0	159	81	112	51	28	348	75
20LE	20.0	193	114	154	69	35	441	110
32LE	32.0	303	153	175	100	50	705	155

Critical Discard Measurements (mm)

H max	M min	D min	E min
13	5.5	17	11.5
18	6.5	20	13
25	8	30	18.5
32	12	41	25
46	18	55.5	31.5
58	24	80	38

The above nominal & critical minimum dimensions are based on the correct clutch manufacture at 2019 and beyond. Clutches supplied prior to 2019 may vary from these dimensions and in this instance, please contact Reid™ for the appropriate nominal & critical dimensions for those particular clutches.

Reid™ Edge Lift Clutches



Product Specifications (mm)

CLUTCH	Working Load Limit (tonnes)	Nominal Dimensions (mm)					
		A	B	C	D	E	F
2ELALE	2.0	95	55	67	35	14	265
7ELALE	7.0	80	44	70	18	18	215
SJULC / 10ELALE	10.0	132	60	80	35	25	305
3DX7NLC	7.0	102	53	78	31	21	209

Critical Discard Measurements (mm)			
TM max	LR min	D min	E min
16	12	28	12.5
21	15.5	16	16
23	19	28	22
21	51.5	29	17.5

The above nominal & critical minimum dimensions are based on the correct clutch manufacture at 2022. Clutches supplied prior to 2019 may vary from these dimensions and in this instance, please contact Reid™ for the appropriate nominal & critical dimensions for those particular clutches.

Testing

Annual proof load testing shall be conducted in accordance with AS 3850.1:2024 Appendix A8.

Where a lifting system is proof load tested by a third party, Reid™ recommends those third parties are accredited by NATA or IANZ to perform the testing in accordance with AS 3850.1:2024.

Testing shall be conducted using a corresponding anchor from the same lifting system which the clutch belongs to. Alternatively, a fixture matching in shape and dimensions shall be used.

- If an anchor is used as a fixture, a new anchor shall be used for each test to prevent fatigue failures on the anchor.
- Anchors or fixtures are to be fully engaged by the clutch, prior to the commencement of load being applied.
- Wire strand is not to be used as a fixture.



Proof load testing requirements

Product	WLL (t)	Required applied load (kN)
1LE	1.3	26
2LE	2.5	49
5LE	5.0	98
10LE	10.0	196
20LE	20.0	392
32LE	32.0	628
2ELALE	2.5	49
7ELALE	7.0	137
10ELALE/ SJULC	10.0	196
3DX7NLC	7.0	137

Terms and Conditions



All Reid™ branded products and all products manufactured at our Melbourne manufacturing facility are designed, manufactured, tested and supplied in compliance with our Quality Management System which has been independently audited and certified by SAI Global to ISO 9001:2015. Reid™ undertake strict quality control processes to ensure performance specifications and metallurgical properties are maintained.

Disclaimer

Reid™ (ITW Australia Pty Ltd) will in no way be liable for any loss, damage, cost or expense (including consequential loss, damage, cost or expense), in circumstances where this product has not been used strictly in accordance with Reid™ Usage Guidelines and Discard Criteria (available at www.reids.co.nz); where the product has not been tested in accordance with applicable Australian and New Zealand standards; where the product has been modified in any manner; or where the product has been used with lifting or associated products that have not been manufactured and supplied by Reid™.

Customer Service

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Information in this document is correct at the time of printing. Readers should contact Reid™ or consult Reid™ detailed technical information to ensure product is suitable for intended use prior to purchase.

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