August | 2023 AUS

SwiftLift™ Edgelift Clutches

Compliance Document

Reid SwiftLift™ Edgelift Clutches, from 3t to 10t WLL comply with AS3850.1:2015 (+A1)

Reid™ SwiftLift™ Edgelift Clutches

Reid SwiftLift™ Edgelift Clutches - 3DX85LC, 3DX10ALC, SJLLC & SJULC comply with AS3850.1:2015 (+A1).

They are manufactured under strict quality requirements using the highest quality steel and manufacturing processes. All SwiftLift™ Edgelift Clutches are proof tested prior to sale and are uniquely identified by a proof tag.

CHARTERED VERIFIED ENGINEER

AS 3850 Compliant

Figure 1: Edgelift Clutches

Please refer to "Reid™ Swiftlift™ Lifting Eye & Edge Lifting Clutches: Discard Criteria" for important safety information regarding this product range.

Compliance Details

Table 1: AS 3850.1:2015 (+A1:2019) Compliance Details

Clause number	Requirement	Compliant
2.2	The Working Load Limit has been determined by testing in accordance with Appendix A, using a FOS per Table 2.1.	✓
2.6	WLL determined in accordance with clause 2.2.	✓
	Manufactured from ductile materials.	✓
	When loaded to ultimate failure, failure shall occur in a ductile manner away from any weld zones, with evidence of distortion and plastic deformation and all fracture faces shall exhibit ductile failure mechanisms.	✓
	All cast components shall be 100% florescent magnetic particle tested.	✓
	Each clutch shall be proof-tested, certified and uniquely identified.	✓
	Each clutch shall be permanently marked with a unique identifier (traceable to the proof tests), the manufacturers symbol or name and the WLL or compatible anchor identifier.	✓
A3	Testing and recording of results.	✓
A4	Statistical evaluation of test results, using formula A4, Xk=x(1-ksCOV).	✓
A5	Production Validation through testing to confirm compliance of critical speciation requirements (dimensions, material properties and load bearing capacity where appropriate).	✓
A8	During design validation, clutches shall be tensile tested to determine Ru.	✓
	Each clutch shall be proof tested in accordance with clause 2.6.	✓
	Tensile testing shall be in accordance with A8.2.3.	✓

SwiftLift™ Edgelift Clutches, from 3t to 10t WLL comply with AS3850.1:2015 (+A1) ✓

TESTED IN LOCAL CONDITIONS

SwiftLift™ Edgelift Clutch

The Reid™ range of SwiftLift™ Edgelift Clutches have been exclusively designed, tested and approved for use with Reid Anchors and accessories. They are available in a range of Working Load Limits.

SwiftLift clutches are designed so that they cannot spontaneously disengage whilst the system is under load at any orientation, provided they are correctly engaged with the correct lifting system. When the lift is complete and the load released, the SwiftLift Edgelift Clutch is quickly and easily disengaged.

	Part No.	Pack Qty	WLL (Max)
JAWS	SJLLC	1	3t
	SJULC	1	10.0t
3DX	3DX85LC	1	8.5t
	3DX10ALC	1	10.0t

AS 3850 Compliant

SwiftLift Clutch Markings

1

WLL per clause 2.6(iii)

2

Reid name & logo per clause 2.6

3

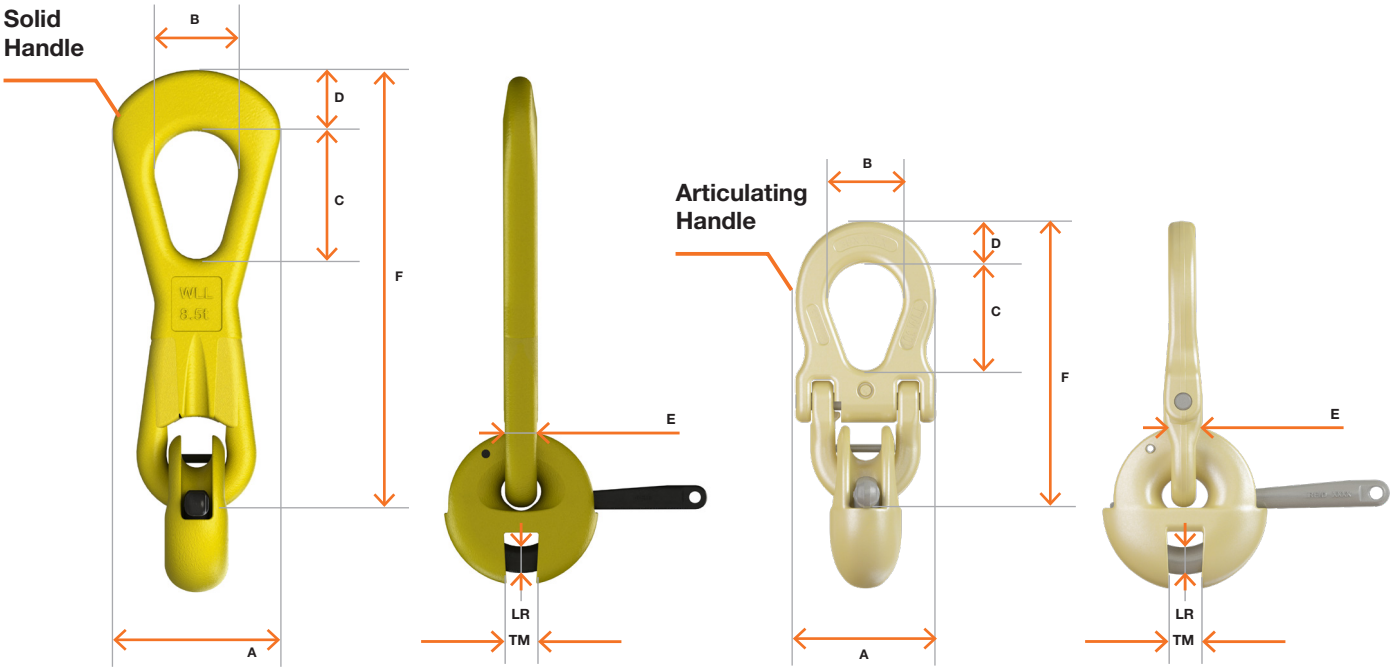
batch no. and test no.

As per AS 3850.1:2015 clause 2.6, all clutches need to be permanently marked with a unique identifier (traceable to proof tests), the manufacturers symbol or name, and the WLL or compatible anchor identified. All Reid SwiftLift Lifting Clutches comply with this clause.

Note: Clutch markings above are typical, and may vary from above.

Reid™ Edge lift Clutches

Product Specifications (mm)



Product Specifications (mm)

CLUTCH		Working Load Limit, (tonnes)	Nominal Dimensions (mm)					
			A	B	C	D	E	F
JAWS	SJLLC	3.0	95	55	68	35	14	230
	SJULC	10	132	60	80	35	25	305
3DX	3DX85LC	8.5	110	56	85	41	19	296
	3DX10ALC	10	102	53	78	31	21	209

Critical Discard Measurements(mm)

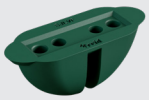
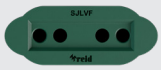
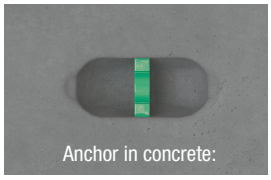
TM max	LR min	D min	E min
16	12	28	12.5
23	19	28	22
23	17.5	33	17
23	17.8	29	17.5

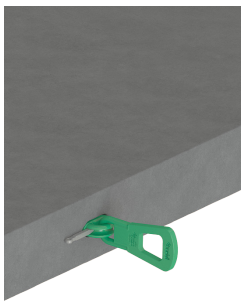
The above Nominal & Critical minimum dimensions are based on the correct clutch manufacture at 2022. Clutches supplied prior to 2019 may vary from these dimensions and in this instance, please contact Reid® for the appropriate Nominal & Critical dimensions for those particular clutches.

Clutch Compatibility

JAWS 3t-10t WLL Edgelifting Systems

3 Tonne Edgelifting System:

Anchor	Lifting Clutch	Void Former
 SJL	 SJLLC	Isometric View:  Top View:  SJLVF
 Anchor in concrete:		

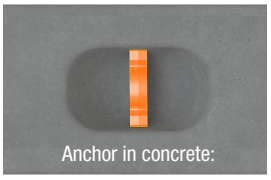


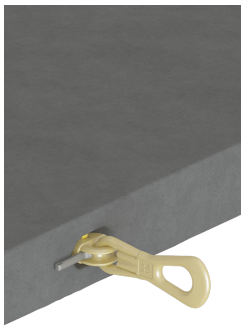
AS3850.1:2015 (+A1) Compliant

Reid™ SwiftLift™ Lifting Systems comply with AS3850.1:2015 (+A1).

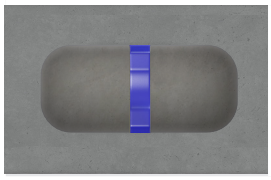
Please refer to the relevant Compliance Document for further information.

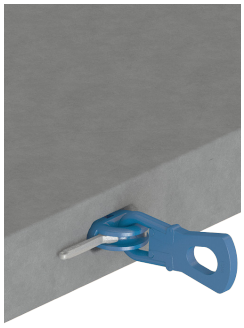
7 Tonne Edgelifting System:

Anchor	Lifting Clutch	Void Former
 SJS	 3DX85LC	Isometric View:  Top View:  3DX85VF
 Anchor in concrete:		



10 Tonne Edgelifting System:

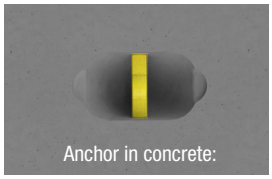
Anchor	Lifting Clutch	Void Former
 SJU	 SJULC	Isometric View:  Top View:  SJUVF
		

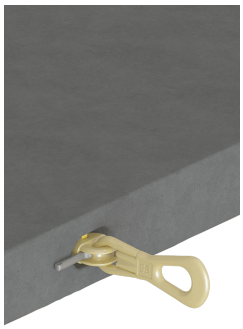


Clutch Compatibility

3Dx 8.5t & 10t Edgelifting system

8.5 Tonne Edgelifting System:

Anchor 8.5t	Lifting Clutch		Void Former
 3DX85	 3DX85LC	 3DX10ALC	Isometric View:  Top View:  3DX85VF
 Anchor in concrete:			

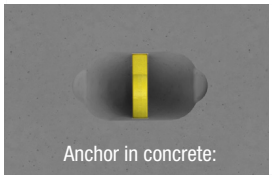


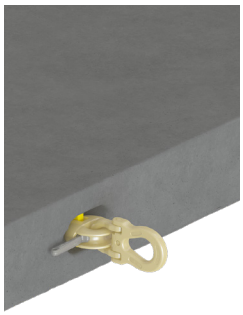
AS3850.1:2015 (+A1) Compliant

Reid™ SwiftLift™ Lifting Systems comply with AS3850.1:2015 (+A1).

Please refer to the relevant Compliance Document for further information.

10 Tonne Edgelifting System:

Anchor 10t	Lifting Clutch**		Void Former
 3DX10A	 3DX85LC	 3DX10ALC	Isometric View:  Top View:  3DX85VF
 Anchor in concrete:			



** System is WLL limited to 8.5t when using 3DX85LC

Critical Discard Measurements

If any of the below criteria is 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

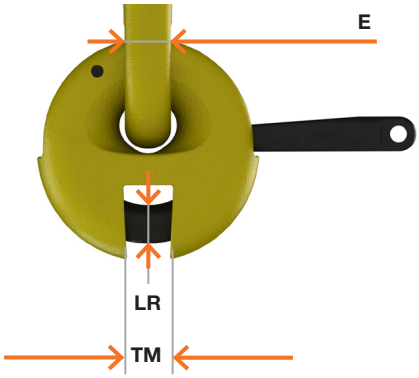
(TM) – Edge lift Clutch; the slot in the torus

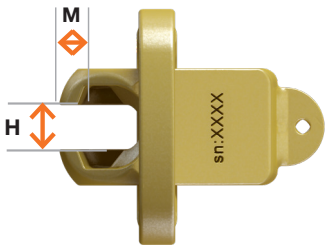
(H) – lifting eye Clutch; the slot in the sphere

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





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

Australia: Phone 1300 780 250 or email sales@reid.com.au

Testing

Annual proof load testing shall be conducted in accordance with AS3850.1:2015 Appendices A8.

Where a lifting system is proof load tested by a third party, ramsetreid recommends those selected are accredited to perform the testing in accordance with AS3850.1:2015 by NATA or IANZ.

Testing shall be conducted using a corresponding anchor from the same lifting system which the clutch belongs. 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	16
2LE	2.5	30
5LE	5	59
10LE	10	118
20LE	20	236
32LE	32	377
SJLLC	3	36
SJHLC	7	83
3DX85LC	8.5	101
SJULC	10	118
3DX10ALC	10	118

TESTED IN LOCAL CONDITIONS

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. ramsetreid™ undertake strict quality control processes to ensure performance specifications and metallurgical properties are maintained.

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