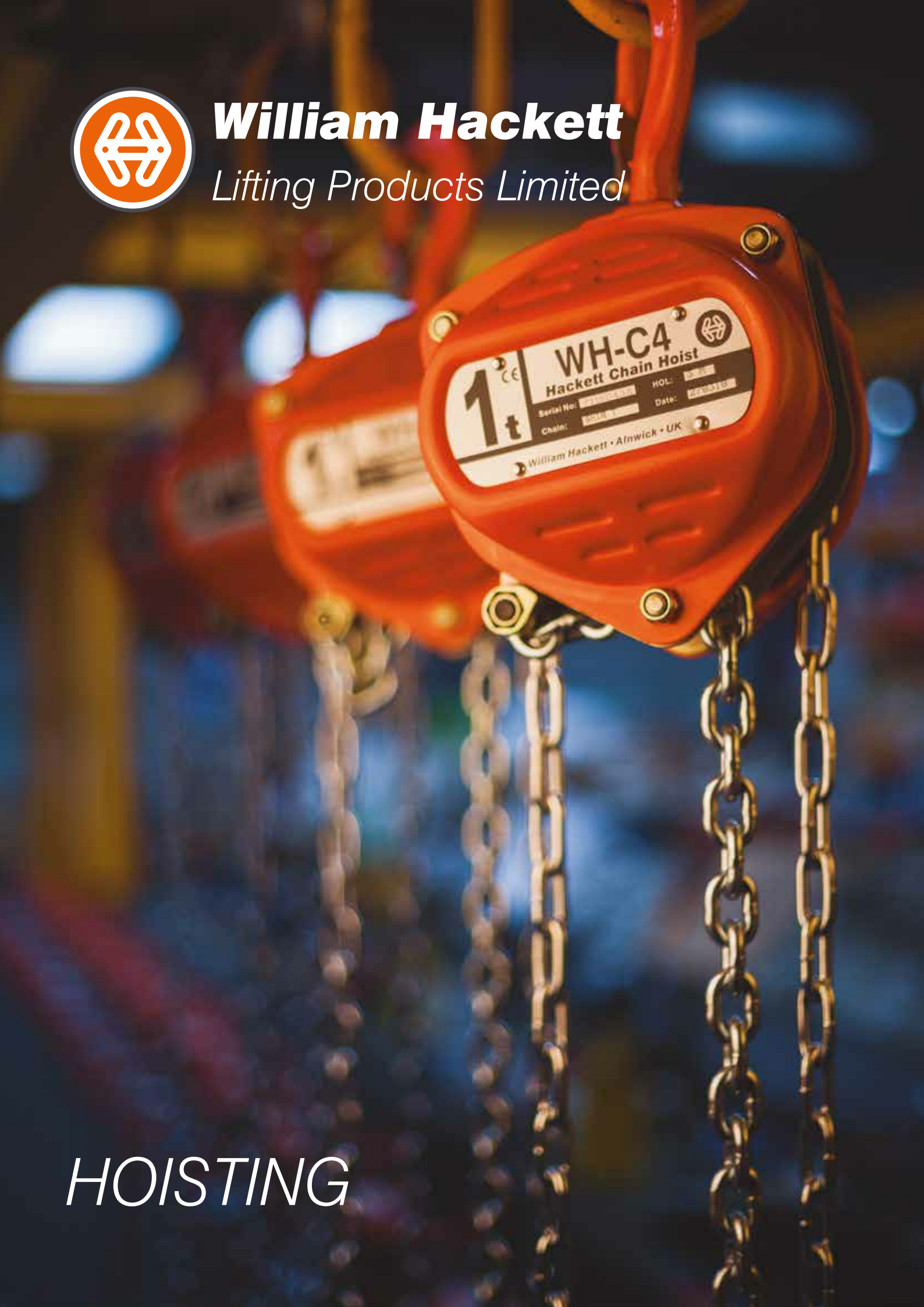
William Hackett

Lifting Products Limited



HOISTING

Certification

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 204578-2016-AQE-GBR-UKAS
Initial certification date: 08 August 2007
Valid: 08 August 2016 - 08 August 2019

This is to certify that the management system of

William Hackett Holdings Ltd

William Hackett Chain Products Ltd
Maypole Fields, Cradley, Halesowen, West Midlands, B63 3QE, United Kingdom

William Hackett Lifting Products Limited
Oak Drive, Lionheart Enterprise Park, Alnwick, Northumberland, NE66 2EU

has been found to conform to the Management System standards:
ISO 9001:2015/ ISO 14001:2015

This certificate is valid for the following scope:
Manufacture and supply of welded and mechanically joined chained assemblies and lashing assemblies. Manufacture and supply of lifting and hoisting equipment, fittings and accessories. Manufacture and supply of agricultural equipment.

Place and date:
London, 30 January 2017

UKAS MANAGEMENT SYSTEMS
0053

For the issuing office:
DNV GL Business Assurance UK Limited, Palace House,3 Cathedral Street, SE1 9DE, London, United Kingdom

Richard Redmond
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

LEEA

Lifting Equipment Engineers Association

Certificate of Membership 2018

We hereby certify that

William Hackett Lifting Products Ltd
United Kingdom

having been audited in accordance with the Association's technical audit procedure specified in document reference LEER 042 has been admitted as a

Full Member

for the location(s) and scope of work detailed in the schedule bearing the same number as this certificate

Certificate Number
910

For and on behalf of LEER

Chairman

Chief Executive

Date of Certificate - 1st January 2018

Date of expiry of Certificate - 31st December 2018

LEEA

This certificate is the property of the Association and shall be returned on demand. It is not issued under, in pursuance of, by

All of the business activities of William Hackett are controlled within a quality management system certified in accordance with ISO 9001: 2015 and ISO 14001: 2015.

William Hackett has developed market leading product traceability and certification systems to ensure the complete fulfilment of all customer quality requirements.

William Hackett is proud to be a full member of the Lifting Equipment Engineers Association (LEEA).

Contents

PRODUCT SUPPORT: William Hackett is fully committed to providing its customers with technical and service support through the product lifecycle, including the availability of spares and replacement components.

All statements, technical information, advice and recommendations contained within this brochure are given in good faith and believed to be reliable, although no guarantee is given as to their accuracy and/or completeness. The user of our products must determine the suitability of the products for their own particular purpose, either alone or in combination with other products and shall assume all risk and liability in connection with those decisions. Whilst every effort has been made to ensure accuracy and completeness in relation to the content of tables, the information contained does not form any part of any contract.

Details of William Hackett's full Terms and Conditions of business are available at: https://www.williamhackett.co.uk/en-gb/about/hackett_terms_and_conditions

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Enterprise Resource Planning (ERP)

ERP systems deliver :

Internal Benefits

- Single integrated data source
- Integrates all commercial functions
- A real-time system
- Increased productivity
- Reduced operating costs
- Improved internal communication
- Foundation for future business services

External Benefits

- Real time order management
- Supply chain integration
- Reduces operational and project risk
- Increases sales opportunities for distributors

Creates a set of “best practices” for business processes.

Facilitates company-wide integrated information systems, covering all functional areas with an end to end real time dashboard.

Assure definition

William Hackett’s continual drive for innovation and customer service excellence through its lifting centre of excellence in Alnwick has led to the development of its Assure Platform. This industry leading enterprise resource planning and real time production and risk management platform transforms the historic paradigms of customer service, delivery logistics, supply chain integration, risk mitigation and disaster recovery.

Assure controls, manages and reports real time on the end to end business processes involved in our supply chain, manufacturing, logistics and customer documentation to deliver customer support services that are specifically designed for the exacting requirements of the onshore and offshore lifting sectors.

‘Assure is the lifting industry’s leading enterprise management system by far!’

Chain Hoist Assembly

- Manufacturing/assembly service provided. All chain hoists are assembled by trained and qualified staff.
- All William Hackett chain hoists are fully compliant with BS EN13157:2004.
- All calibrated load chain is fully compliant with either: Grade T (8) to BS EN818-7, Grade V (10) to JIS B8802.
- Next day delivery service available on request.
- Working Load Limits of 500 Kg – 50 tonnes available from stock.

William Hackett Chains Ltd
Established 1892

DUAL PURPOSE DOCUMENT

EC DECLARATION OF CONFORMITY — A

DECLARATION

I DECLARE THAT THE ITEMS DESCRIBED ON THIS DOCUMENT COMPLY WITH THE REQUIREMENTS OF THE MACHINERY DIRECTIVE 2006/42/EC

MANUFACTURER'S CERTIFICATE — B

PRODUCTS WHICH REQUIRE A DECLARATION OF CONFORMITY ARE INDICATED BY (A) AND THOSE REQUIRING JUST A MANUFACTURER'S CERTIFICATE BY (B)

Delivery Address

WILLIAM HACKETT
OAK DRIVE, LIONHEART ENTERPRISE PARK
ALNWICK, NORTHUMBERLAND
NE66 2EU
UK

Supplied To: LIF019
Certificate Number: 180249
Customer Order No: LHS4845
Date Received: 24/06/2015

CERTIFIED ON BEHALF OF THE COMPANY
T.J.BURGESS
24/06/2015

A/B	Batch	Lot No / Serial No	Product	Description	Qty	Working Load Limit	Proof Load	Min Breaking Load
A	P10413	41460201 41460222 41460200	HW022.053	500kG HACKETT CHAIN BLOCK 3 MTR HOL C4 to EN13157	3	500KG	750KG	
A	P10412	41080065 41080101 41080073 41080077	HW034.080	800 Kg WH-L5 Lever Hoist x 1.5mt hol, to EN13157	4	800KG	1.2 TONNE	
A	Q09177	1400077	HW044.050	500 Kg Twin Bar Hackett Push Trolley to EN13157	1	500 kg	1.5 TONNE	
B	Q09492	WUD/YJE	HNB-026-13	13mm Yoke Grade 8 Clevis Self Locking Hook to EN1677-3	10	5.3 TONNES	130.0 kN	208.0 kN
B	Q09596	VBP/YHV	HNB-026-16	16mm Yoke Grade 8 Clevis Self Locking Hook to EN1677-3	6	8.0 TONNES	196.0 kN	314.0 kN

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Northern Office Oak Drive, Lionheart Enterprise Park, Alnwick, Northumberland NE66 2EU
Tel + 44 (0) 1665 604200 Fax + 44 (0) 1665 604204
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William Hackett

WH-C4
CHAIN HOIST

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WH-C4 Chain Hoist

WH-C4 Chain Hoist

The William Hackett WH-C4 chain hoist meets and exceeds the requirements of the following international standards:
British Standard BS EN13157:2004 + AI:2009
American Standard ASME B30.16-2012
Australian Standard AS1418.2-1997
South African Standard SANS 1594:2007
NORSOK R-002: 2017.

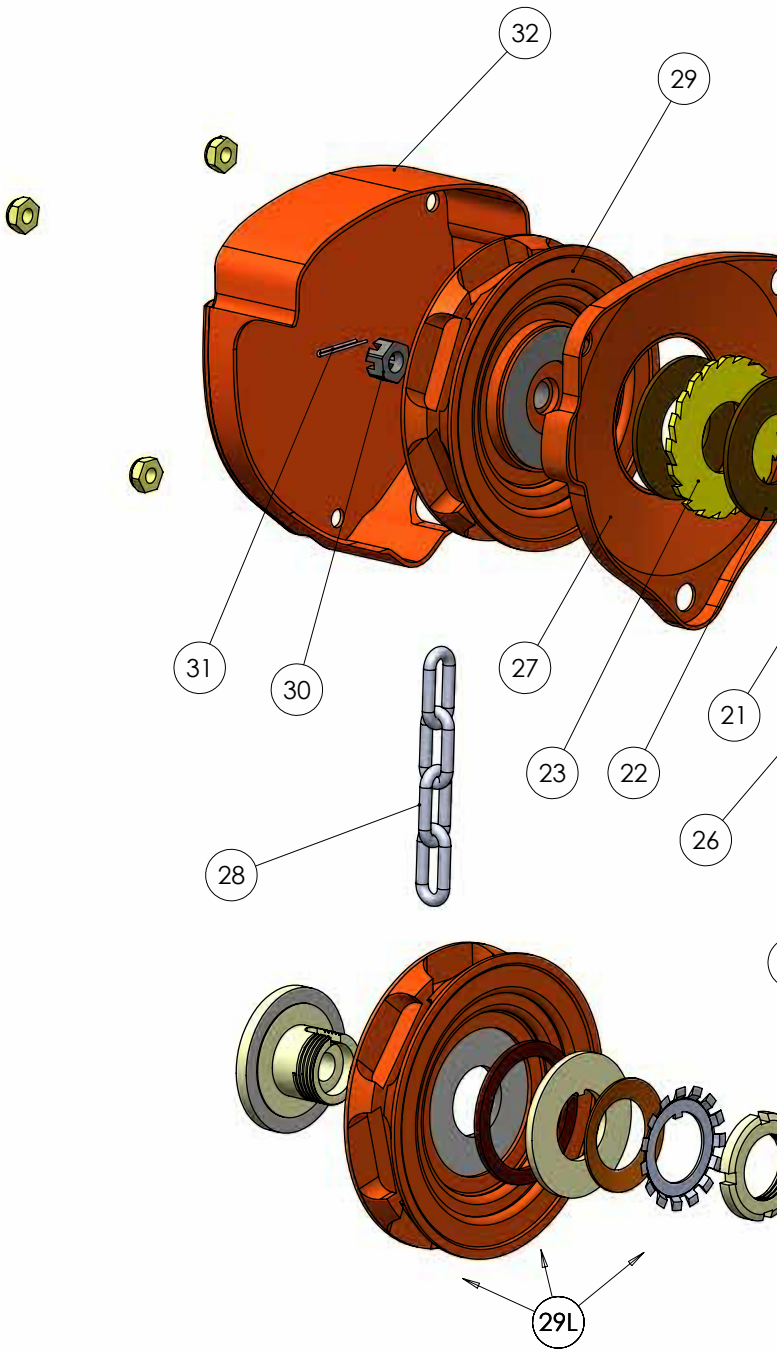
The William Hackett WH-C4 chain hoist can be used within an operating temperature range of -40°C to +55°C.

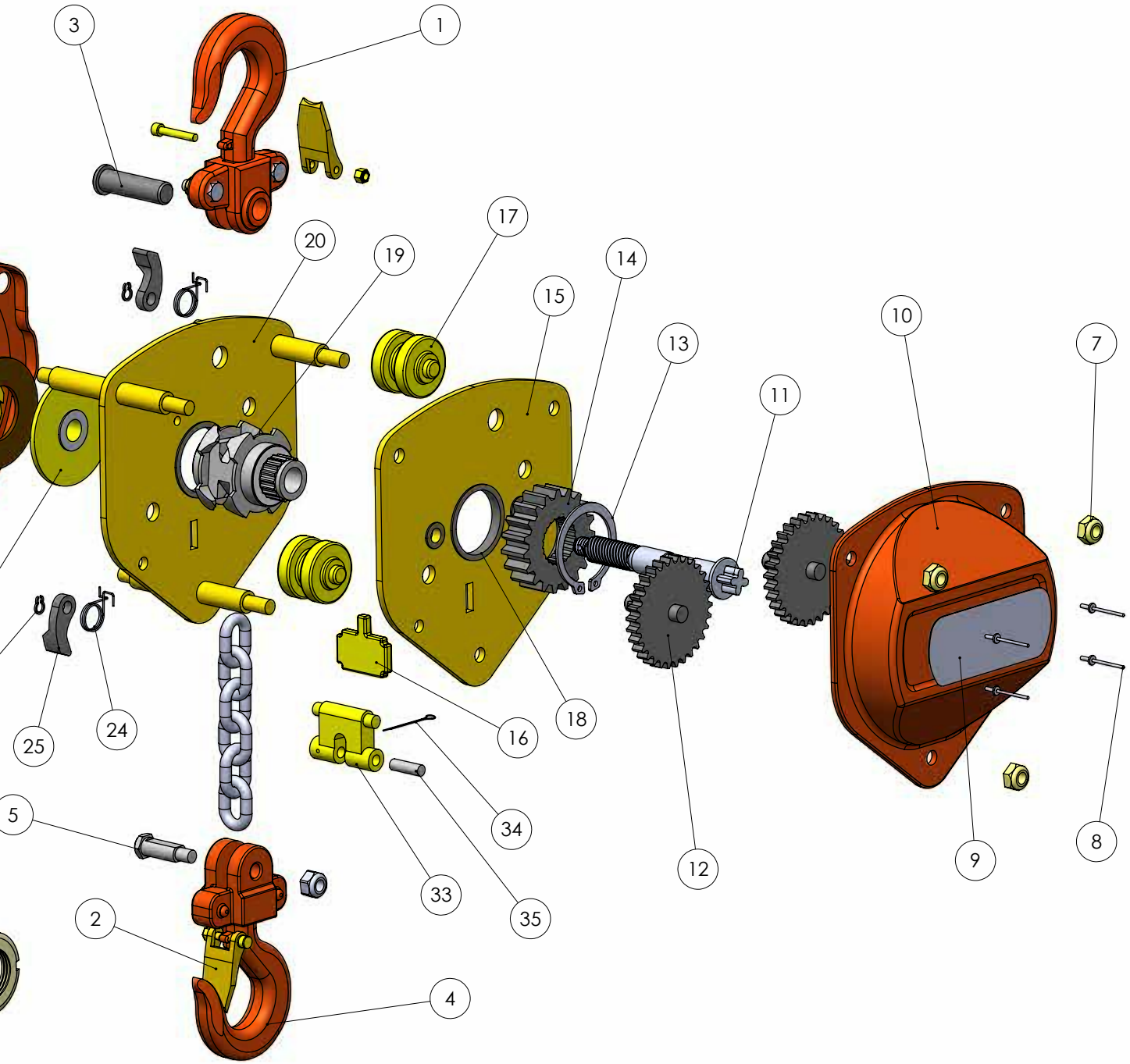
The design and specification of the William Hackett WH-C4 chain hoist includes:

- **WORKING LOAD LIMIT RANGE:** 500kg to 50 tonnes.
- **LIGHT LOAD CAPABILITY:** the WH-C4 is tested and certified at 2% of the chain hoist rated capacity.
- **TWIN PAWL:** double safety; fitted as standard.
- **SAFETY LATCHES:** the WH-C4 chain hoist top and bottom hooks are fitted with heavy duty cast steel latches. The latch and hook tip are integrated creating a strong and robust hook closure.
- **OVERLOAD INDICATOR MARKS:** WH-C4 chain block top and bottom hooks have, as part of the hook forging, overload indicator marks either side of the hook throat. By measuring the distance between the indicator marks, the hook can be quickly and easily checked to see if any stretch has occurred due to misuse or overloading.
- **HAND CHAIN JOINER:** a unique hand chain joiner is used as a quick and secure method of joining the hand chain without the need to cut, bend, open and close a link of existing hand chain.
- **HOOK HOUSING:** the WH-C4 chain hoist top and bottom hook housing are secured with socket head cap screws/hex head bolts and nyloc insert locking nuts.
- **FLEETING/CROSS HAULING:** the WH-C4 chain hoist is tested and certified for fleeting or cross hauling applications up to 45° from the vertical without deration.
- **LOAD CHAIN:** WH-C4 chain blocks are fitted with load chain that fully complies with international standard BS EN818-7 Grade T (8).
- **OVERLOAD LIMITER:** available as an option upon request.

Exploded Diagram and Parts List

Part Code	Part Name
C4.01	Top Hook Assembly
C4.02	Latch Kit
C4.03	Top Hook Pin
C4.04	Bottom Hook Assembly
C4.05	Chain Fixing Pin
C4.07	Nut
C4.08	Label Rivets
C4.09	Label
C4.10	Gear Cover Assembly
C4.11	Pinion Shaft
C4.12	Pinion Gear (pair)
C4.13	Snap Ring
C4.14	Load Gear
C4.15	Gear Side Plate
C4.16	Stripper
C4.17	Guide Roller
C4.18	Caged Roller Bearings
C4.19	Load Sheave
C4.20	Wheel Side Plate Assembly
C4.21	Disc Hub
C4.22	Friction Disc (pair)
C4.23	Ratchet Gear
C4.24	Pawl Spring
C4.25	Pawl
C4.26	Snap Ring
C4.27	Brake Cover
C4.28	Hand Chain
C4.29	Hand Chain Wheel
C4.29L	Overload Limiter Assembly
C4.30	Pinion Nut
C4.31	Cotter Pin
C4.32	Hand Wheel Cover
C4.33	Chain Anchor Plate
C4.34	Split Pin
C4.35	Chain Anchor Pin
C4.36	Top Hook Pin and Lock Nut

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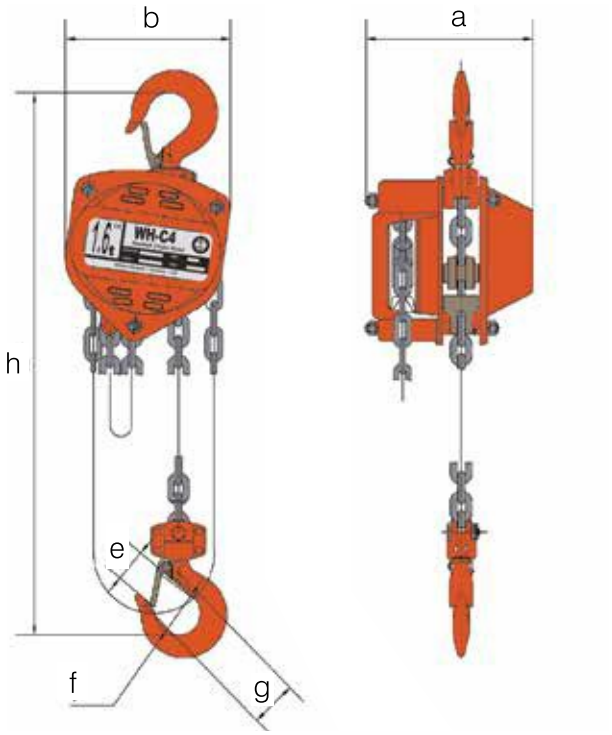
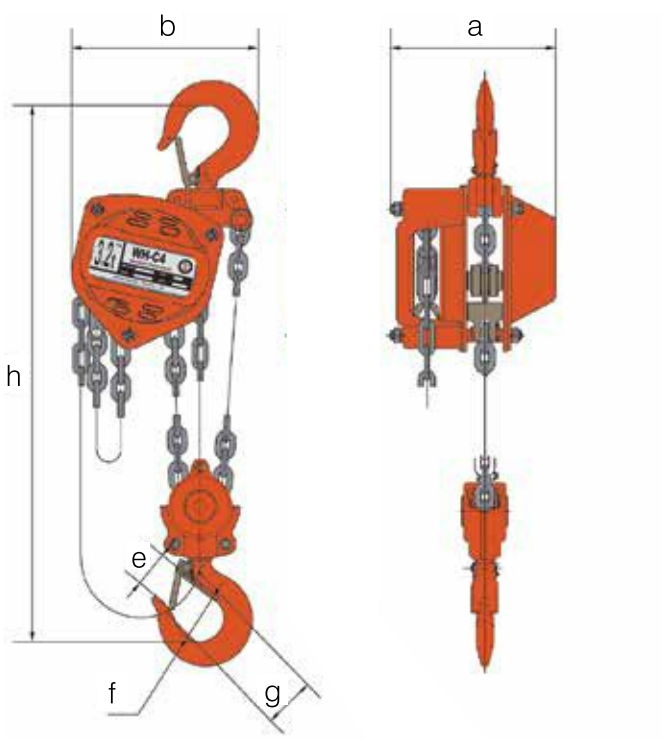
WH-C4 Chain Hoist

Specifications and Dimensions

Single Fall



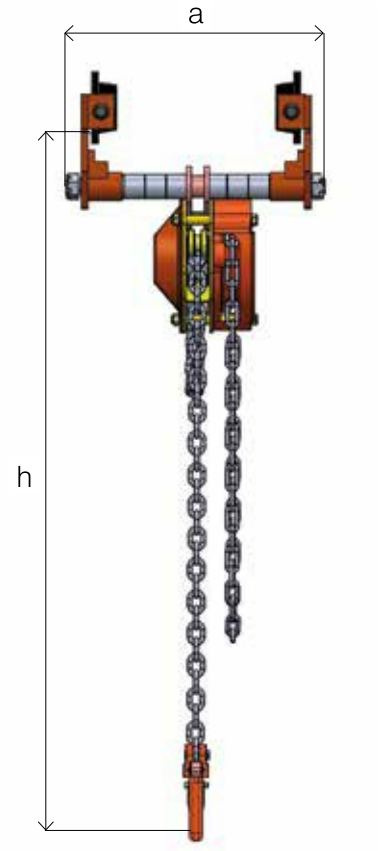
Multi Fall



Part Code	WLL tonnes	No. of Falls	Load Chain mm	Hand Chain mm	Standard Lift (m)	a mm	b mm	e mm	f mm	g mm	h mm	Mass kg	Extra Weight per M kg
022.050	0.50	1	5 x 15	5 x 25	3	125	130	22.5	32	37	280	7.80	1.38
022.100	1.00	1	6 x 18	5 x 25	3	134	155	26.5	40	44	306	11.10	1.62
022.160	1.60	1	8 x 24	5 x 25	3	151	173	32.5	42	48	368	15.80	2.23
022.200	2.00	1	8 x 24	5 x 25	3	157	185	36.5	46	52	445	16.80	2.23
022.32D00	3.20	2	8 x 24	5 x 25	3	157	235	43.5	52	62	520	24.20	3.62
022.500	5.00	2	10 x 30	5 x 25	3	180	262	51.0	60	77	600	39.80	5.18
022.750	7.50	3	10 x 30	5 x 25	3	192	373	64.0	85	-	740	72.40	7.60
022/1000	10.00	4	10 x 30	5 x 25	3	180	365	53.0	85	-	760	89.70	9.52
022/1500	15.00	6	10 x 30	5 x 25	3	210	406	80.0	100	-	1000	91.10	13.86
022/2000	20.00	8	10 x 30	5 x 25	3	225	550	80.0	110	-	1150	197.00	19.03
022/3000	30.00	12	10 x 30	5 x 25	3	360	680	80.0	110	-	1250	301.00	27.71
022/5000	50.00	20	10 x 30	5 x 25	3	585	832	133.0	170	-	1700	465.00	45.80

WH-C4 Combined Chain Hoist and Push Trolley

The William Hackett WH-C4 Combined Hoist and Push Trolleys meet and exceed the requirements of the following international standards:
British Standard BS EN 13157:2004 + AI:2009.



Part Code	WLL tonnes	No.of Falls	Beam Range 1 mm	Beam Range 2 mm	a max mm	b mm	h mm	Mass kg Range 1
066.050	0.50	1	50 - 203	-	294	190	295	15.00
066.100	1.00	1	64 - 203	64 - 305	311	206	305	22.00
066.200	2.00	1	88 - 203	88 - 305	324	246	437	34.00
066.320	3.20	2	100 - 203	100 - 305	348	300	493	53.00
066.500	5.00	2	114 - 203	114 - 305	369	336	573	80.00

WH-C4 Combined Chain Hoist and Geared Trolley

The William Hackett WH-C4 Combined Hoist and Geared Trolleys meet and exceed the requirements of the following international standards:
British Standard BS EN 13157:2004 + AI:2009.

Part Code	WLL tonnes	No.of Falls	Beam Range 1 mm	Beam Range 2 mm	a max mm	b mm	h mm	Mass kg Range 1
067.050	0.50	1	50 - 203	-	232	190	295	15.60
067.100	1.00	1	64 - 203	64 - 305	332	206	305	25.50
067.200	2.00	1	88 - 203	88 - 305	341	246	437	37.50
067.320	3.20	2	100 - 203	100 - 305	359	300	493	57.00
067.500	5.00	2	114 - 203	114 - 305	366	336	573	83.00

William Hackett

WH-L4
LEVER HOIST

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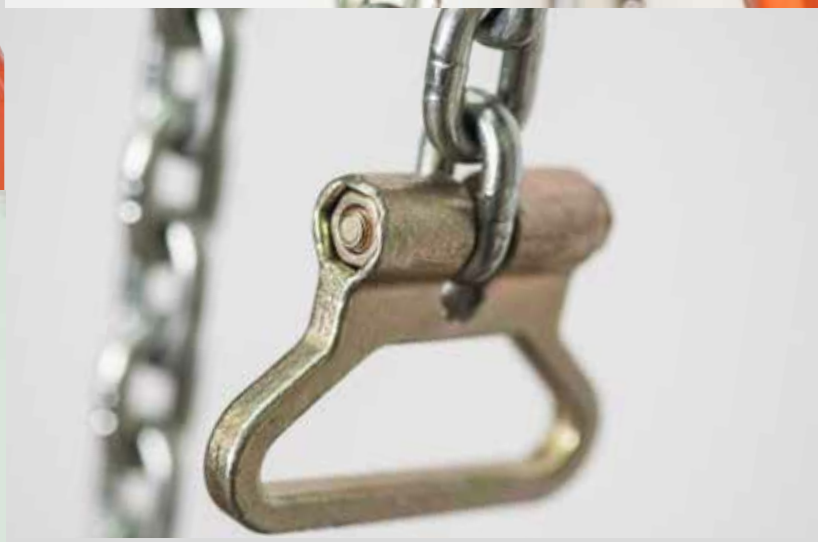
WH-L4 Lever Hoist



WH-L4 Lever Hoist

The Hackett WH-L4 lever hoist meets and exceeds the requirements of the following international standards:

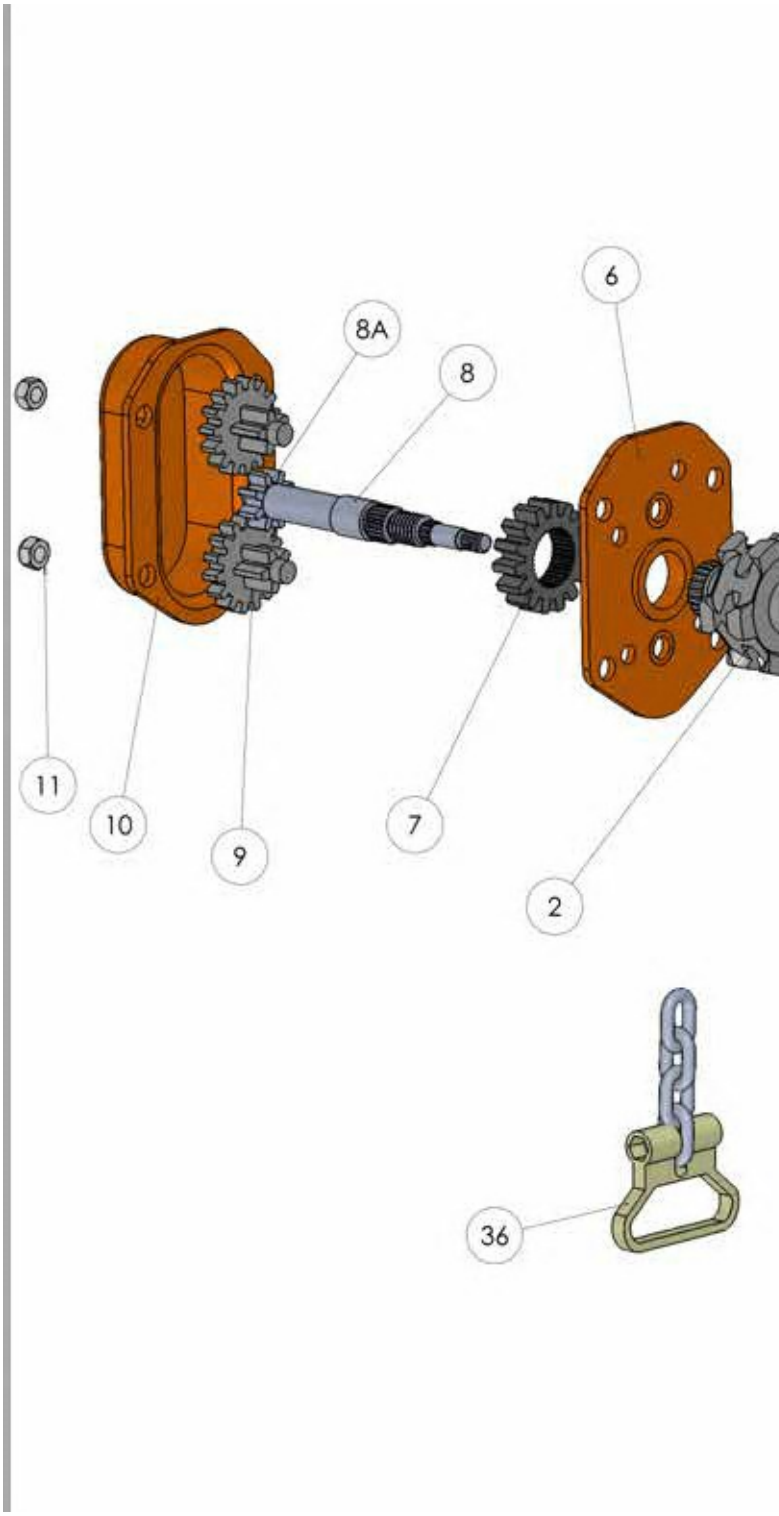
British and European Standard BS EN13157:2004 + AI:2009
American Standard ASME B30.21-2014
Australian Standard AS1418.2-1997
South African Standard SANS 1636:2-2007
NORSOK R-002: 2017.

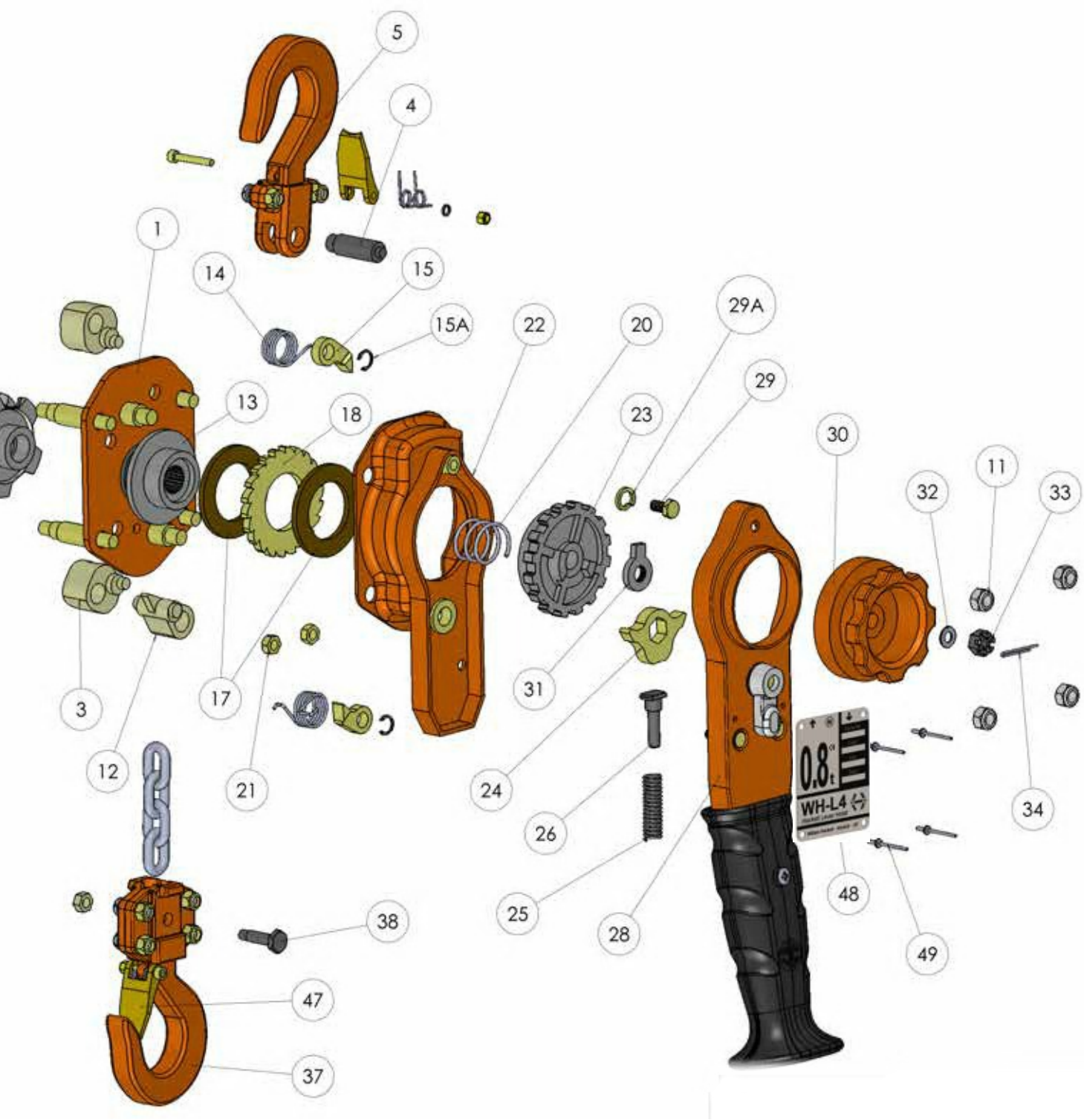
The design and specification of the William Hackett WH-L4 lever hoist includes:

- **WORKING LOAD LIMIT RANGE:** 800kg to 20 tonnes.
- **LIGHT LOAD CAPABILITY:** the WH-L4 is tested and certified at 2% of the lever hoist rated capacity.
- **TWIN PAWL:** double safety; fitted as standard.
- **SAFETY LATCHES:** the WH-L4 lever hoist top and bottom hooks are fitted with heavy duty cast steel latches. The latch and hook tips are integrated creating a strong and robust hook closure.
- **OVERLOAD INDICATOR MARKS:** the WH-L4 lever hoist top and bottom hooks have, as part of the hook forging, overload indicator marks either side of the hook throat. By measuring the distance between the indicator marks, the hook can be quickly and easily checked to see if any stretch has occurred due to misuse or overloading.
- **HOOK HOUSING:** the WH-L4 lever hoist top and bottom hook housings are secured with socket head cap screws/hex head bolts and nyloc locking nuts.
- **FLEETING/CROSS HAULING:** the WH-L4 lever hoists are tested and certified for fleeting or cross hauling applications up to 45° from the vertical without deration.
- **LOAD CHAIN:** the WH-L4 lever hoists are fitted with load chain that fully complies with international standard BS EN818-7 Grade T (8).
- **TRAVELLING END STOP:** is available as an option upon request. The travelling end stop can be fitted as a replacement to the standard end stop. The travelling end stop allows the user, when a WH-L4 lever hoist is in position, to move the end stop along the slack chain and position adjacent to the body of the lever hoist. This has the benefits of shortening the slack chain, and stopping any potential 'run' of load chain through the hoist when the operator comes to use it again.

Exploded Diagram and Parts List

Part Code	Part Name
L4.01	Left Side Plate Assembly
L4.02	Load Sheave
L4.03	Chain Guide
L4.04	Top Hook Shaft
L4.05	Top Hook Assembly
L4.06	Right Side Plate Assembly
L4.07	Load Gear
L4.08	Pinion Shaft
L4.08a	Pinion Shaft Washer
L4.09	Pinion Gear (pair)
L4.10	Gear Cover
L4.11	Nut
L4.12	Chain Stripper
L4.13	Disc Hub
L4.14	Pawl Spring
L4.15	Pawl
L4.15a	Circlip
L4.17	Friction Disc (pair)
L4.18	Ratchet Gear
L4.20	Spring
L4.21	Lock Nut
L4.22	Handle Cover Assembly
L4.23	Change Gear
L4.24	Change Over Pawl
L4.25	Change Over Spring
L4.26	Change Over Stand
L4.28	Lever Handle Assembly
L4.29	Screw
L4.29A	Spring Washer
L4.30	Grip Ring
L4.31	Stop Cam
L4.32	Washer
L4.33	Castle Nut
L4.34	Split Pin
L4.36	Square Type End Stop
L4.37	Bottom Hook Assembly
L4.38	Chain Fixing Pin
L4.47	Latch Kit
L4.48	Label
L4.49	Label Rivets

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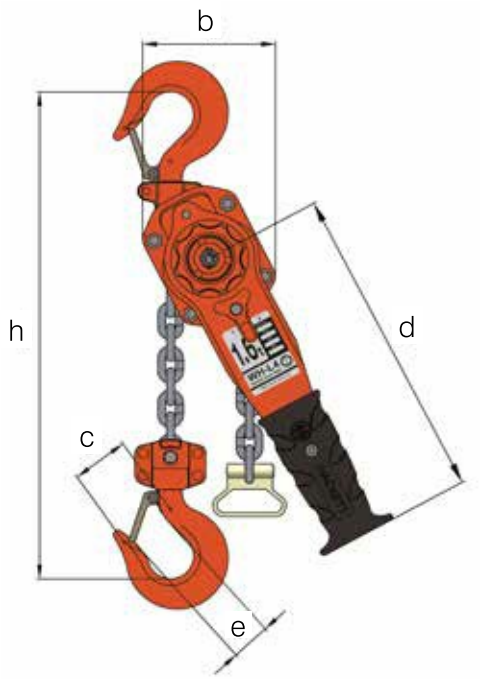
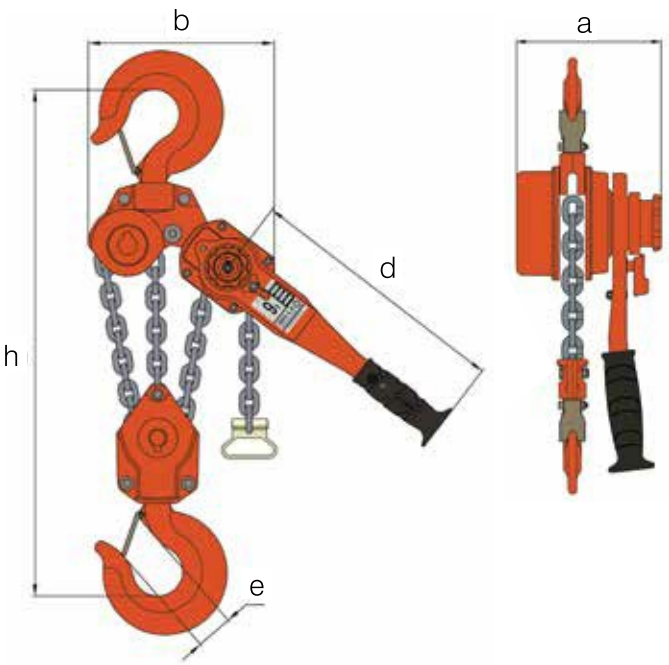
WH-L4 Lever Hoist

Specifications and Dimensions

Single Fall



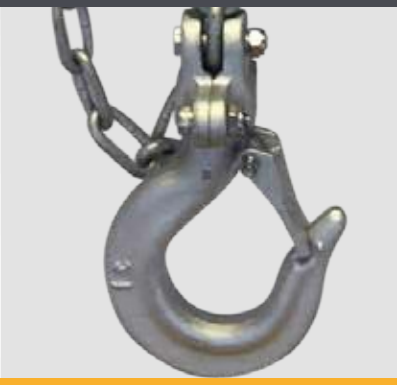
Multi Fall



Part Code	WLL tonnes	No. of Falls	Load Chain mm	Standard Lift (m)	a mm	b mm	c mm	d mm	e mm	h mm	Mass kg	Extra Weight per M kg
033.080	0.80	1	5.6 x 17	1.5	148.0	121	37.5	265	28	280	6.20	0.70
033.160	1.60	1	7.1 x 21	1.5	165.5	141	47.0	415	33	350	9.60	1.10
033.320	3.20	1	10 x 30	1.5	194.5	178	62.5	415	42.5	420	15.50	2.20
033.630	6.30	2	10 x 30	1.5	194.5	228	78.0	415	51	570	27.00	4.40
033.900	9.00	3	10 x 30	1.5	194.5	310	-	415	56	680	38.30	6.60
033/1500	15.00	6	10 x 30	1.5	194.5	420	-	415	80	1000	90.00	13.20
033/2000	20.00	8	10 x 30	1.5	194.5	480	-	415	80	1150	195.00	19.20

William Hackett

CP-C4
CHAIN HOIST



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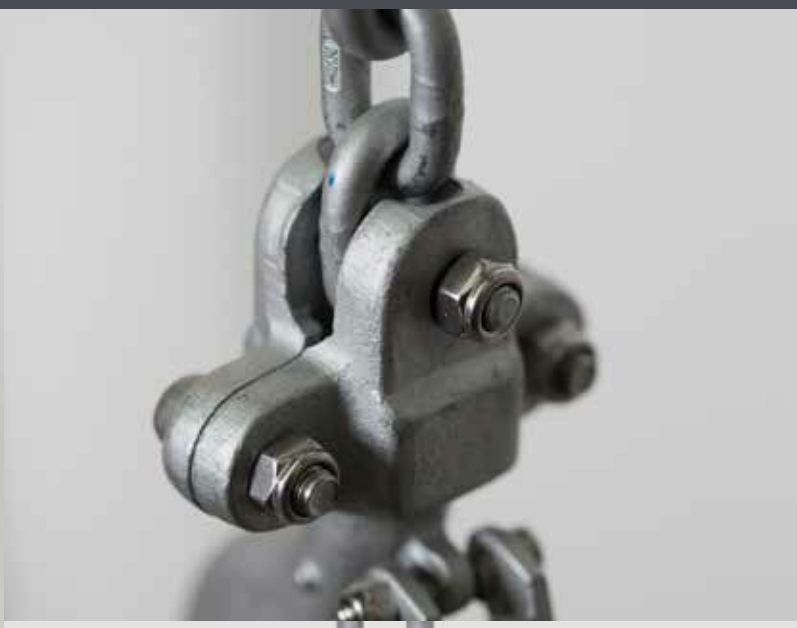
t: 0161 223 1990

CP-C4 Chain Hoist



CP-C4 Chain Hoist

The William Hackett CP-C4 corrosion protected chain hoist meets and exceeds the requirements of the following international standards:
British Standard BS EN13157:2004 + AI:2009
American Standard ASME B30.16-2012
Australian Standard AS1418.2-1997
South African Standard SANS 1594:2007
NORSOK R-002: 2017.

William Hackett has taken its extensive knowledge of corrosion protection acquired in the supply of specialist topside and subsea hoisting range to the offshore sector and translated this technology to a second generation range of William Hackett CP-C4 anti corrosion chain hoists. These hoists can be supplied in the following configurations;

- Single hook suspension unit
- Low headroom combined chain hoist and push travel trolley
- Low headroom combined chain hoist and geared travel trolley

All the above hoist configurations can also be supplied with the following options:

- Calibrated Grade T (8) load chain to BS EN818-7 zinc plated with zinc plated hand chain
- Calibrated Grade T (8) load chain to BS EN818-7 DT9 corrosion coated and hand chain Dacromet corrosion coated.
- Calibrated Grade S (6) 316L stainless steel load chain, hand chain and bottom hook (stainless steel bottom hooks are only available for 500kg and 1 tonne units)
- Overload protection option available.

Features

- 500hrs + Protection against salt spray tests according to ASTM B117
- Twin pawls as standard
- Heavy duty forged safety catches
- Stainless steel fixings used throughout the hoist
- Hook housing is bolt connected using cap head screws and nyloc nuts
- All hoist components are corrosion protected
- Load chain meets the requirements of European standards: EN818-7
- Compact and robust design for easy handling

Performance and Testing

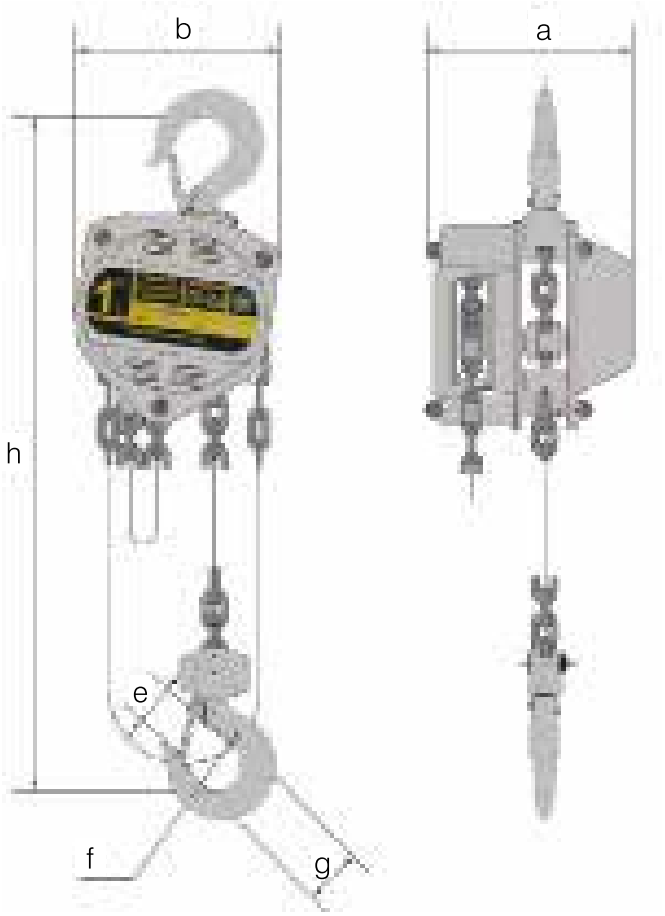
The William Hackett CP-C4 chain hoist has been fully tried and tested to include:

- Minimum Breaking Load - a minimum of 4 x the WLL
- The load chain anchor / end stop tested to at least 2.5 x the WLL with no restriction of either the brake or gears
- All Hoists are 100% proof tested at 1.5 x the Working Load Limit
- Light load of 2% of Working Load Limit

CP-C4 Chain Hoist

Specifications and Dimensions

Single Fall



Part Code	WLL tonnes	No of Falls	Load Chain Size mm	Stand. Lift m	a mm	b mm	e mm	f mm	g mm	h mm	Mass Kg	Extra Weight per Mtr (Kg)
022.050.CP	0.50	1	5.0 x 15	3	125	130	27.5	32	37	280	7.8	01.38
022.100.CP	1.00	1	6.0 x 18	3	134	155	31.5	40	44	306	11.1	1.62
022.200.CP	2.00	1	8.0 x 24	3	157	185	36.5	46	52	445	16.8	2.23

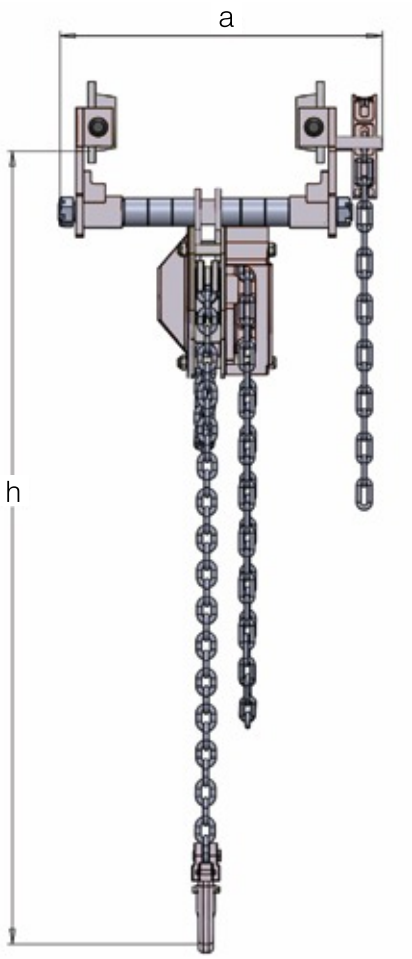
CP-C4 Combined Chain Hoist and Push Trolley

The William Hackett Corrosion Protected Combined Hoist and Push Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + AI:2009.

Part Code	WLL tonnes	No.of Falls	Beam Range 1 mm	Beam Range 2 mm	a max mm	b mm	h mm	Mass kg Range 1
066.050.CP	0.50	1	50 - 203	-	294	190	295	15.00
066.100.CP	1.00	1	64 - 203	64 - 305	311	206	305	22.00
066.200.CP	2.00	1	88 - 203	88 - 305	324	246	437	34.00

C4 Combined Chain Hoist and Geared Trolley

The William Hackett Corrosion Protected Combined Hoist and Geared Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + AI:2009.



Part Code	WLL tonnes	No.of Falls	Beam Range 1 mm	Beam Range 2 mm	a max mm	b mm	h mm	Mass kg Range 1
067.050.CP	0.50	1	50 - 203	-	232	190	295	15.60
067.100.CP	1.00	1	64 - 203	64 - 305	332	206	305	25.50
067.200.CP	2.00	1	88 - 203	88 - 305	341	246	437	37.50

William Hackett

SS-C4 OFFSHORE CHAIN HOIST

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t: 0161 223 1990

SS-C4 Offshore Chain Hoist

SS-C4 Offshore Chain Hoist

The William Hackett SS-C4 Offshore Chain Hoist meets and exceeds the requirements of the following international standards:
British Standard BS EN13157:2004 + AI:2009
American Standard ASME B30.16-2012
Australian Standard AS1418.2-1997
South African Standard SANS 1594:2007
NORSOK R-002: 2017.

William Hackett has taken its extensive knowledge acquired in the supply of a specialist topside and subsea hoisting range to the offshore sector and translated this technology to a second generation range of William Hackett SS-C4 offshore chain hoists.
These hoists can be supplied in the following configurations:

- Single hook suspension unit
- Low headroom combined chain hoist and push travel trolley
- Low headroom combined chain hoist and geared travel trolley

All the above hoist configurations can also be supplied with the following options

- Calibrated Grade T (8) load chain to BS EN818-7 zinc plated with zinc plated hand chain
- Calibrated Grade T (8) load chain to BS EN818-7 DT9 corrosion coated and hand chain Dacromet corrosion coated.
- Calibrated Grade S (6) 316L stainless steel load chain, hand chain and bottom hook (stainless steel bottom hooks are only available for 500kg and 1 tonne units)
- Overload protection option is available.

Features

- 500hrs + Protection against salt spray tests according to ASTM B117
- Twin pawls as standard
- Heavy duty forged safety catches
- Stainless steel fixings are used throughout the hoist
- Hook housing is bolt connected using cap head screws and nyloc nuts
- All brake components are corrosion protected
- Load chain meets the requirements of European standard: EN818-7
- Compact and robust design for easy handling

Performance and Testing

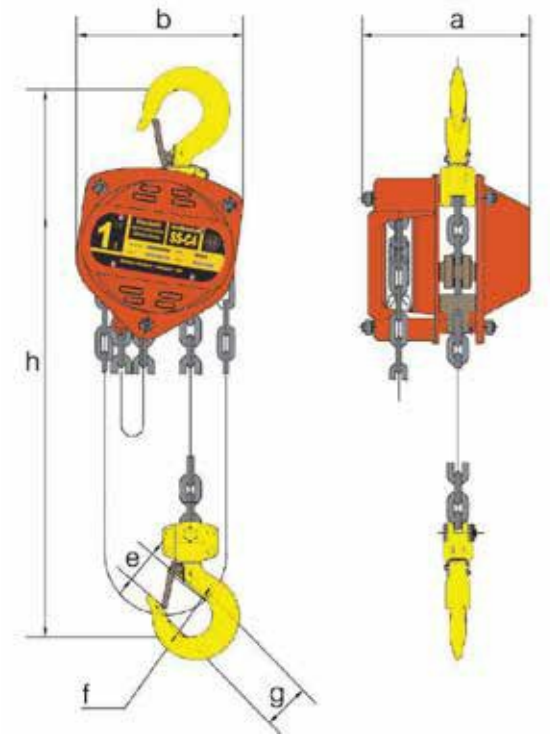
The William Hackett SS-C4 offshore chain hoists have been fully tried and tested to include:

- Minimum Breaking Load - a minimum of 4 x the WLL
- The load chain anchor / end stop tested to at least 2.5 x the WLL with no restriction of either the brake or gears
- All Hoists are 100% proof tested at 1.5 x the Working Load Limit
- Light load of 2% of Working Load Limit

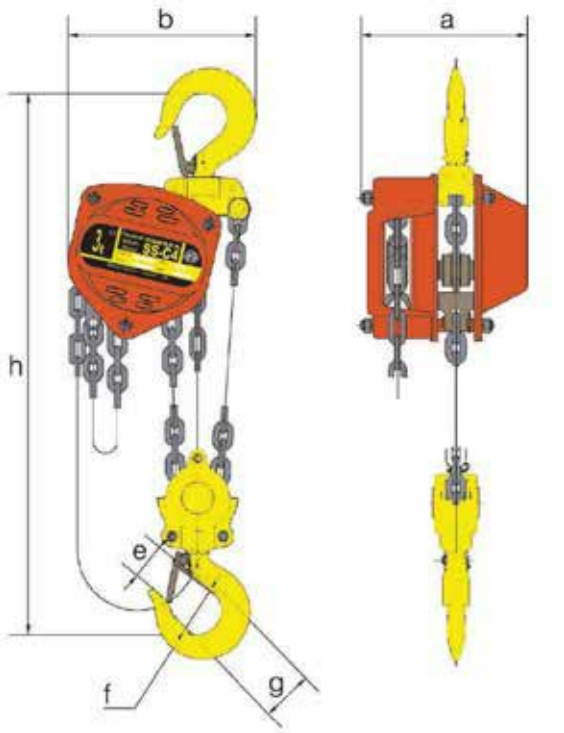
SS-C4 Offshore Chain Hoist

Specifications and Dimensions

Single Fall



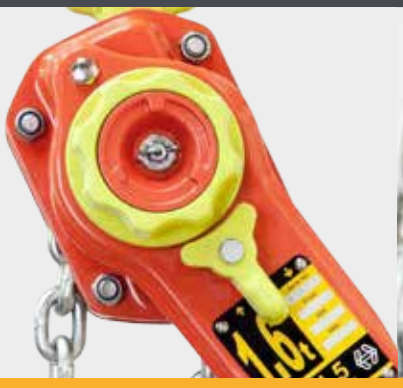
Multi Fall



Part Code	WLL tonnes	No of Falls	Load Chain Size mm	Stand. Lift m	a mm	b mm	e mm	f mm	g mm	h mm	Mass Kg	Extra Weight per Mtr (Kg)
022.SS.050	0.50	1	5.0 x 15	3	125	130	27.5	32	37	280	7.80	1.38
022.SS.100	1.00	1	6.0 x 18	3	134	155	31.5	40	44	306	11.10	1.62
022.SS.200	2.00	1	8.0 x 24	3	157	185	36.5	46	52	445	16.80	2.23
022.SS.32D00	3.20	2	8.0 x 24	3	157	235	43.5	52	62	520	24.20	3.62
022.SS.500	5.00	2	10.0 x 30	3	180	262	51.0	60	77	600	39.80	5.18
022.SS.1000	10.00	4	10.0 x 30	3	180	406	53.0	85	-	760	89.70	9.52
022.SS.1500	15.00	6	10.0 x 30	3	210	406	80.0	100	-	1000	91.10	13.86
022.SS.2000	20.00	8	10.0 x 30	3	225	550	80.0	110	-	1150	197.00	19.03

William Hackett

SS-L5 OFFSHORE LEVER HOIST



QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001:2015

ENVIRONMENTAL SYSTEM CERTIFICATION DNV·GL ISO 14001:2015

Salt Water Immersion Test Verification Report A0359376.02, Rev.1.

SS-L5 Offshore Lever Hoist

The William Hackett second generation SS-L5 Offshore Lever Hoist is the first offshore lever hoist to be accredited by DNV-GL via a 'Saltwater Immersion test verification, Report No. A0359376.02, Rev.1. The report verifies that the SS-L5 type lever hoist can be be safely used subsea over a 21 day single immersion and a 31 day multi immersion period. The design features, testing, guidance for use, maintenance and storage of the SS-L5 has also been developed in line with:

- **BP document DEV-AAD-SS-SD-BP-0545 'specification and compliance requirements for lever hoists used subsea on BP projects.'**
- **IMCA DO28 June 2017 Rev. 2 'Guidance on the use of chain lever hoists in the offshore subsea environment'**
- **IMCA Document SEL-019:2007, Guidance for Lifting Operations**

The SS-L5 also meets and exceeds the requirements of the following international standards:

British and European Standard BS EN13157: 2004 + AI: 2009
American Standard ASME B30.21-2014
Australian Standard AS 1418.2-1997
South African SANS 1636:2-2007
NORSOK R-002: 2017.

The William Hackett SS-L5 offshore lever hoist can be used within an operating temperature range of -40°C to +55°C.

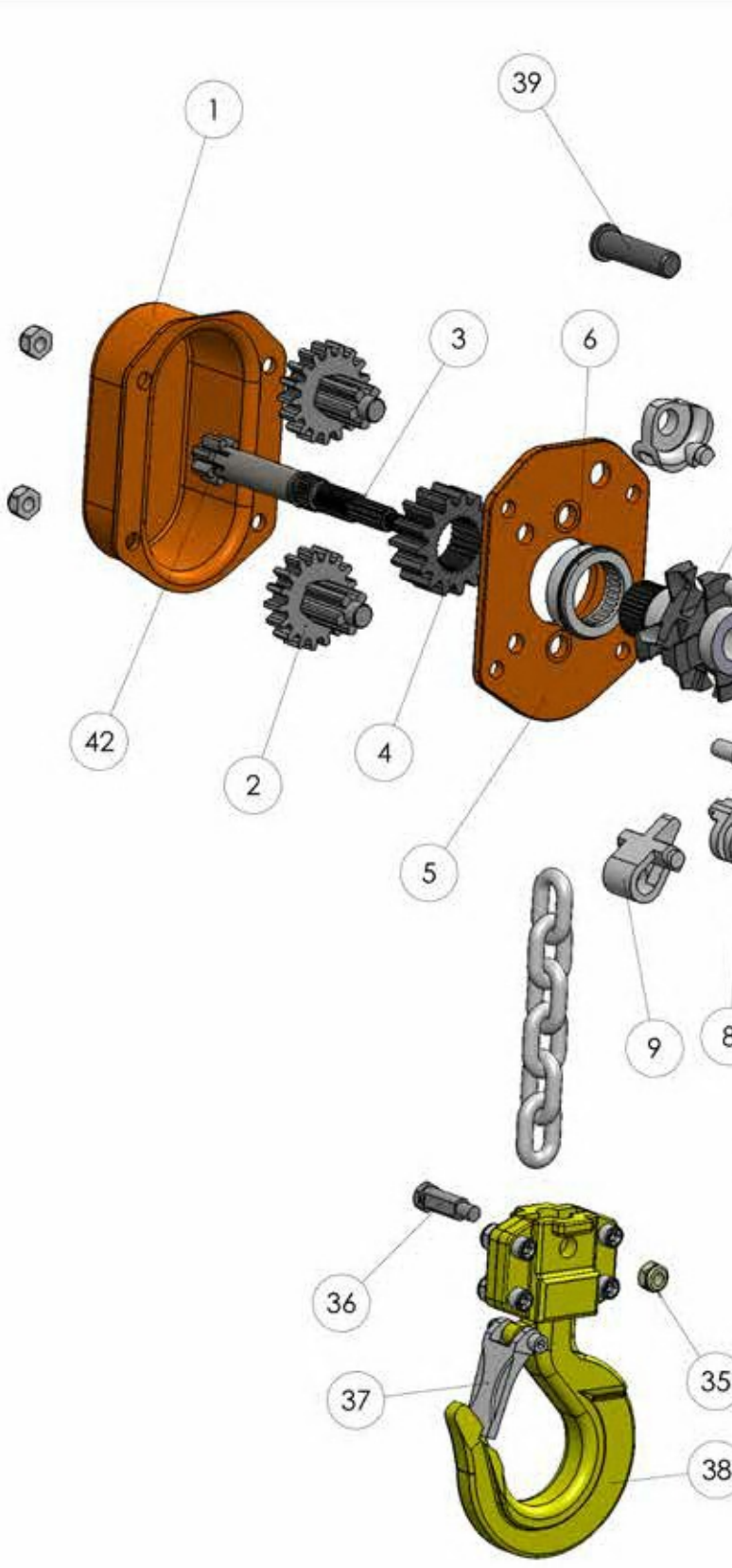
The design and specification of the William Hackett SS-L5 offshore lever hoist includes:

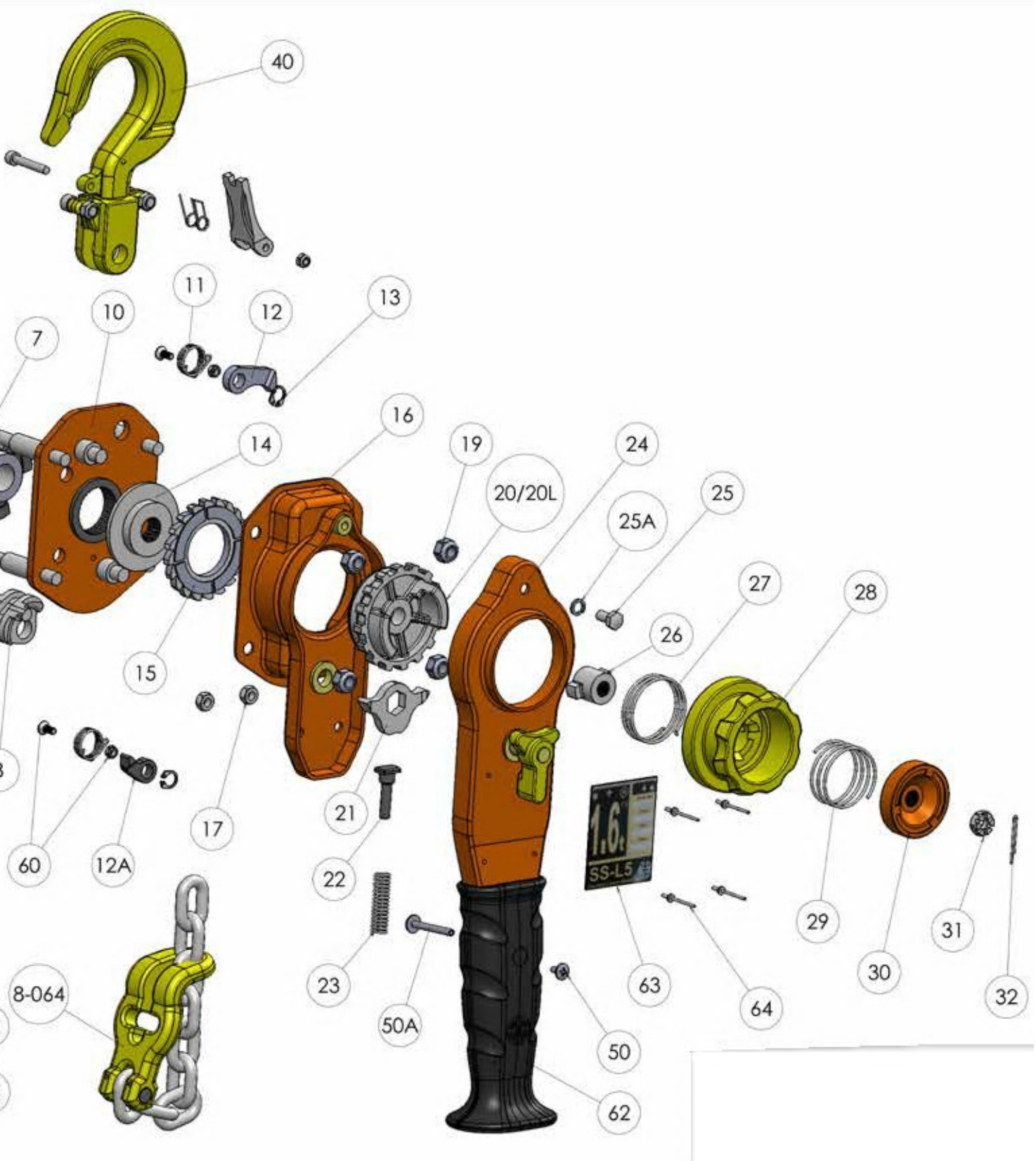
- **WORKING LOAD LIMIT RANGE:** 800kg to 20 tonnes.
- **LIGHT LOAD CAPABILITY:** the SS-L5 is tested and certified at 2% of the lever hoist rated capacity.
- **DABS (DUAL ANTI-LOCK BRAKE SYSTEM):** allows the load chain to be adjusted in freewheel mode without locking the brake.
- **CONSTRUCTION AND DESIGN:** minimises ingress of contaminates to the internal mechanism and brake surfaces.

- **STAINLESS STEEL PAWL SPRINGS:** secured internally to reduce risk of damage.
- **STAINLESS STEEL FIXINGS:** all internal springs are stainless steel, circ clips securing the pawls onto the pawl stands, stainless steel nyloc nuts and socket head cap screws are used to secure all hook housings.
- **SINTERED/FUSED FRICTION MATERIAL:** directly onto the ratchet gear. Grooves in the friction material enable water to be dispelled from the friction surface more effectively during subsea operations.
- **LOAD CHAIN:** in accordance with BS EN818-7 Grade T(8) and Grade V (10) to JIS B8802 self colour.
- **CORROSION PROTECTED:** the complete brake mechanism is corrosion protected including the pinion shaft, disc hub, change gear, ratchet gear, pawls, pawl stands and load sheave. In addition the load chain guide, stay bolts and chain stripper are also corrosion protected.
- **HIGH PERFORMANCE WATERPROOF GREASE:** used throughout the hoist enhancing the corrosion protection.
- **ADJUSTABLE TRAVELLING END STOP:** the uniquely designed traveling end stop allows the operator to position the end stop at any point along the slack section of the load chain. When the lever hoist is in a final rigged position the traveling end stop can be positioned adjacent to the SS-L5 offshore lever hoist body. This has the function of preventing payout of the chain for whatever reason when the lever hoist is operated again.
- **OVERLOAD LIMITER:** available as an option upon request.

Exploded Diagram and Parts List

Part Code	Part Name
SSL5.01	Gear Cover
SSL5.02	Pinion Gear (pair)
SSL5.03	Pinion Shaft
SSL5.04	Load Gear
SSL5.05	Gear Side Plate Assembly
SSL5.06	Bearing
SSL5.07	Load Sheave
SSL5.08	Chain Guide
SSL5.09	Chain Stripper
SSL5.10	Lever Side Plate Assembly
SSL5.11	Stainless Steel Pawl Spring
SSL5.12	Pawl - standard
SSL5.12A	Pawl - Offset
SSL5.13	Stainless Steel Circlip
SSL5.14	Disc Hub
SSL5.15	Ratchet Gear c/w Friction Discs
SSL5.16	Brake Cover Assembly
SSL5.17	Lever Side Plate Nyloc Nut (M6)
SSL5.19	Lever Hoist Cover Nyloc Nut (M8)
SSL5.20	Change Gear
SSL5.20L	Load Limiter
SSL5.21	Change Over Pawl
SSL5.22	Change Over Stand
SSL5.23	Change Over Spring
SSL5.24	Handle Assembly
SSL5.25	Screw
SSL5.25A	Spring Washer
SSL5.26	Cam
SSL5.27	Stainless Steel Twisting Spring 1
SSL5.28	Grip Ring
SSL5.29	Stainless Steel Twisting Spring 2
SSL5.30	Spring Housing
SSL5.31	Castle Nut
SSL5.32	Split Pin
SSL5.35	Chain Fixing Pin Nyloc Nut
SSL5.36	Bottom Hook Chain End Fixing Pin
SSL5.37	Latch Kit
SSL5.38	Bottom Hook Assembly
SSL5.39	Top Hook Pin
SSL5.40	Top Hook Assembly
SSL5.42	Pinion Shaft Washer
SSL5.47	Top Hook Chain Fixing Pin 6.3t, and 10t
SSL5.50	Rubber Handle Nut
SSL5.50A	Rubber Handle Bolt
SSL5.60	Stainless Steel Countersunk Screw & Nut
8-064	Travelling End Stop
SSL5.62	Rubber Handle with Enlarged Pommel
SSL5.63	Label
SSL5.64	Label Rivets

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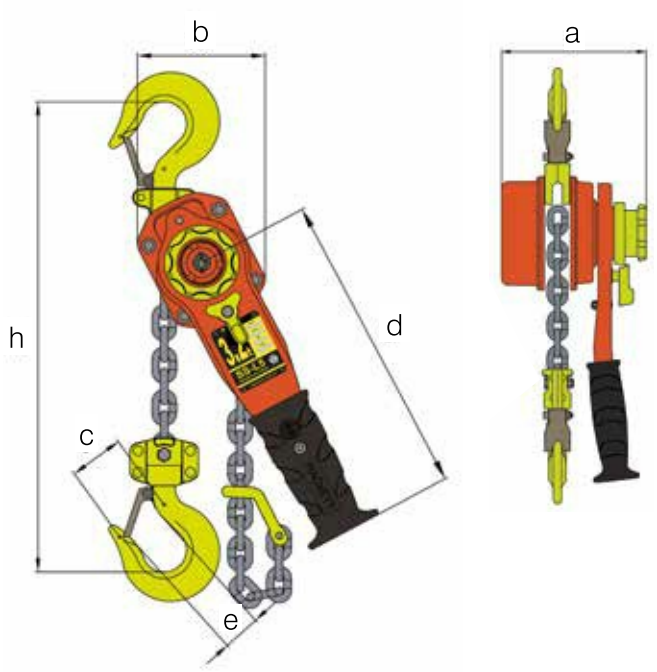
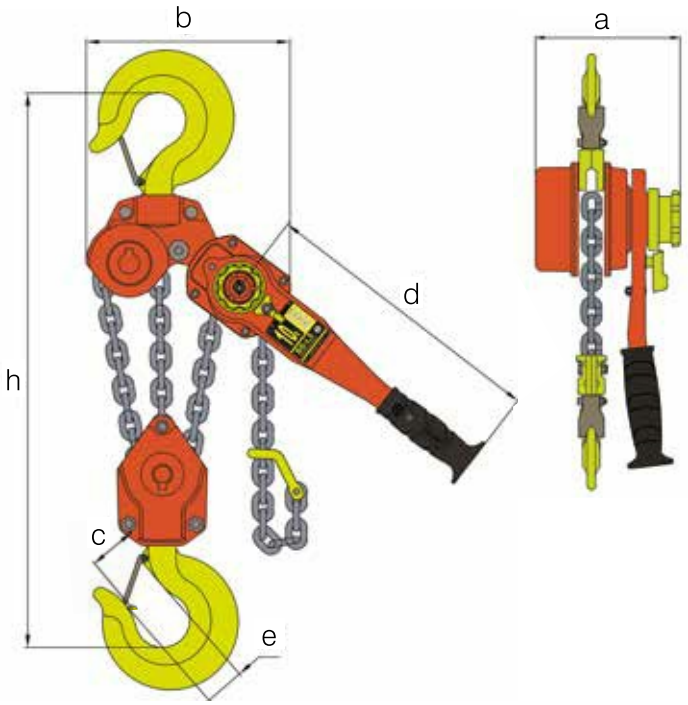
SS-L5 Offshore Lever Hoist

Specifications and Dimensions

Single Fall



Multi Fall



Part Code	WLL tonnes	No. of Falls	Load Chain mm	Standard Lift m	a mm	b mm	c mm	d mm	e mm	h mm	Mass kg	Extra Weight per M kg
034.SS.083	0.80	1	5.6 x 15.7	3	146	119	42.0	245	27	280	6.90	0.70
034.SS.163	1.60	1	7.1 x 19.9	3	164	126	54.5	265	36	335	9.00	1.10
034.SS.323	3.20	1	10 x 28	3	196	159	60.5	415	42	395	17.00	2.20
034.SS.633	6.30	2	10 x 28	3	196	218	85.5	415	52.5	540	33.00	4.40
034.SS.1003	10.00	3	10 x 28	3	196	298	-	415	59	680	50.00	6.60
034.SS.1503	15.00	6	10 x 28	3	196	420	-	415	80	1000	90.00	13.20
034.SS.2003	20.00	8	10 x 28	3	196	480	-	415	80	1150	195.00	17.60

William Hackett

Overhead Line and Rail Industry Lever Hoist

Overhead Line and Rail Industry Lever Hoist

NetworkRail

Certificate of Acceptance PA05/06687

Manufacturer:
William Hackett Lifting Products Ltd

Issue : 1
Valid From : 10-10-2016

SS-L5 Lever Hoists

Product Description

A range of 3 William Hackett lever hoists type SS-L5 part number 034.SS.083 for the 0.8 tonnes model and 034.SS.323 for the 3.2 tonnes unit for use on OLE works and the 034.SS.150.IM. for the 1.5 tonne version for use with Iron men and on OLE works.

Product Image

Scope of Acceptance

Full Acceptance
Product fully approved to be used on Network Rail Managed Infrastructure in accordance with the terms listed on this certificate and any associated reference documentation.

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Reviewed by:
Rebecca Wait
Product Acceptance Co-ordinator

Authorised by:
Rashid Wahidi
Head of Plant

Overhead Line and Rail Industry Lever Hoist

William Hackett"s SS-L5 lever hoist complies with British Standard BS EN13157:2004 +A1:2009 and Network Rail Certificate of Acceptance PA05/06687. The lever hoist capacity ranges from 800kg to 10 tonnes and the designation RL5 1.5t capacity serves a dual role. As well as being approved for overhead line work by Network Rail, the lever hoist is also designed to be used with the "Ironman" rail handling system. For the "Ironman" usage the unit is rated to 1.5 tonne and painted yellow as specified by RIS-1701-PLT.

The design and specification of the William Hackett overhead line and rail industry lever hoists include:

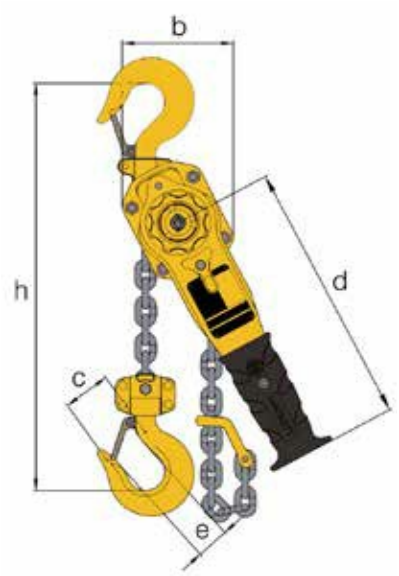
- **THE RL5 "IRONMAN":** can be fitted with either a clevis shackle or omega link eradicating the need for the current connecting link between the clamp and the hoist. The whole system will be certified as one single piece of equipment reducing time and cost when it comes to the inspection and re-certification of the lever hoist, producing a more efficient and effective piece of equipment to use in the field.
- **TRAVELLING CHAIN 'END STOP':** the adjustable travelling end stop which can be positioned next to the body of the lever hoist to prevent slippage and run off.
- **DABS (DUAL ANTI-LOCK BRAKE SYSTEM):** prevents the accidental engagement of freewheel.
- **SLIP PREVENTION CONTOURED RUBBER "T" SHAPED GRIP:** specially designed to improve grip with gloves, especially in the wet.
- **SECURE HOOK CLOSURE:** the heavy duty cast latch interlocks with the nib of the hook to form a secure closure and prevents side load disengagement.
- **PERFORMANCE RATIO:** the Working Load Limit of 1.5t for the "Ironman" at a weight of 8.5kg – gives a performance ratio of 176 : 1
- **TWIN PAWLS, DOUBLE SAFETY SYSTEM:** two pawls of different lengths are fitted to provide one redundant pawl and one engaged at all times. Fully secured with stainless nut and bolts
- **SINTERED AND GROOVED FRICTION BRAKE PADS:** sintered brake material complete with grooves and zinc flake coating mean that the brake surface is kept clear of dirt or water and retain functionality in wet environments.
- **COMPLIANT LOAD CHAIN:** calibrated chain is in accordance with EN818-7.

- **LIGHT LOAD CAPABILITY:** tested and certified at 2% of the rated capacity but in operational mode has a 0% light load capacity.
- **CORROSION PROTECTION:** high performance waterproof marine grease is used throughout the hoist to give long term protection in the harshest environments. Zinc flake corrosion protection along with stainless steel throughout the hoist means extended longevity of critical components.
- **AVAILABILITY** of all spares and service kits allow customers to take the hoist back to almost factory finish.
- **THE RL5 "IRONMAN"** lever hoist can be used within an operating temperature range of -40°C to +55°C.

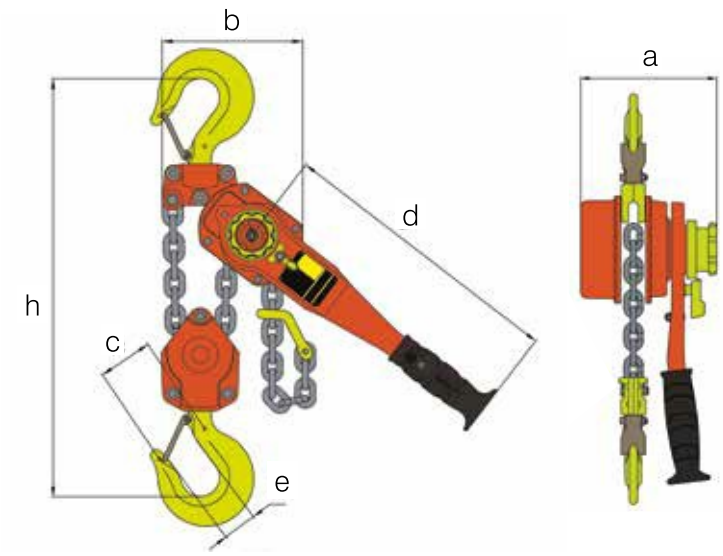
Overhead Line and Rail Industry Lever Hoist

Specifications and Dimensions

Single Fall



Multi Fall



Part Code	WLL tonnes	No. of Falls	Load Chain mm	Standard Lift m	a mm	b mm	c mm	d mm	e mm	h mm	Mass kg	Extra Weight per M kg
034.SS.080	0.80	1	5.6 x 15.7	1.5	146	119	42.0	245	27.0	280	6.90	0.70
034.SS.015.IM	1.50	1	7.1 x 19.9	1.5	164	126	54.2	265	36.0	335	8.50	1.10
034.SS.160	1.60	1	7.1 x 19.9	1.5	164	126	54.5	265	36.0	335	9.00	1.10
034.SS.320	3.20	1	10 x 28	1.5	196	159	60.5	415	42.0	395	17.00	2.20
034.SS.630	6.30	2	10 x 28	1.5	196	218	85.5	415	52.5	540	33.00	4.40
034.SS.1000	10.00	3	10 x 28	1.5	196	298	-	415	59	680	50.00	6.60

William Hackett

ATEX-C4 Chain Hoist

Ex II 2G c IIC T4

Ex II c IIIC T135°C

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ATEX-C4 Chain Hoist

ATEX-C4 Chain Hoist

The William Hackett ATEX-C4 chain hoist complies with the requirements of ATEX Directive 2014 / 34 / EU and Machinery Directive 2006 / 42 / EC

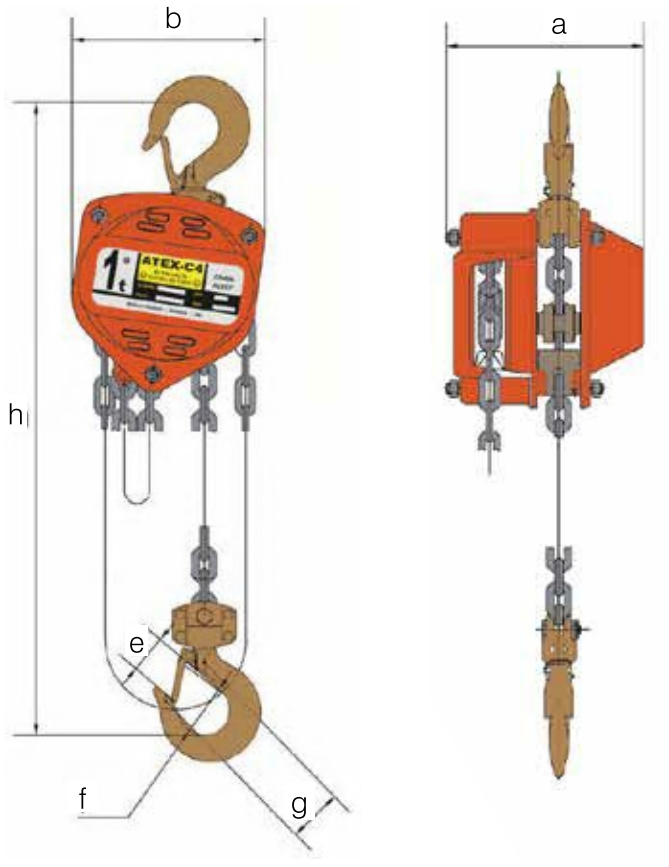
The ATEX-C4 chain hoist meets and exceeds the requirements of the following international standards:
British Standard BS EN13157:2004 + AI:2009
American Standard ASME B30.16-2012
Australian Standard AS1418.2-1997
South African Standard SANS 1594:2007
NORSOK R-002: 2017.

The design and specification of the William Hackett ATEX-C4 chain hoist includes:

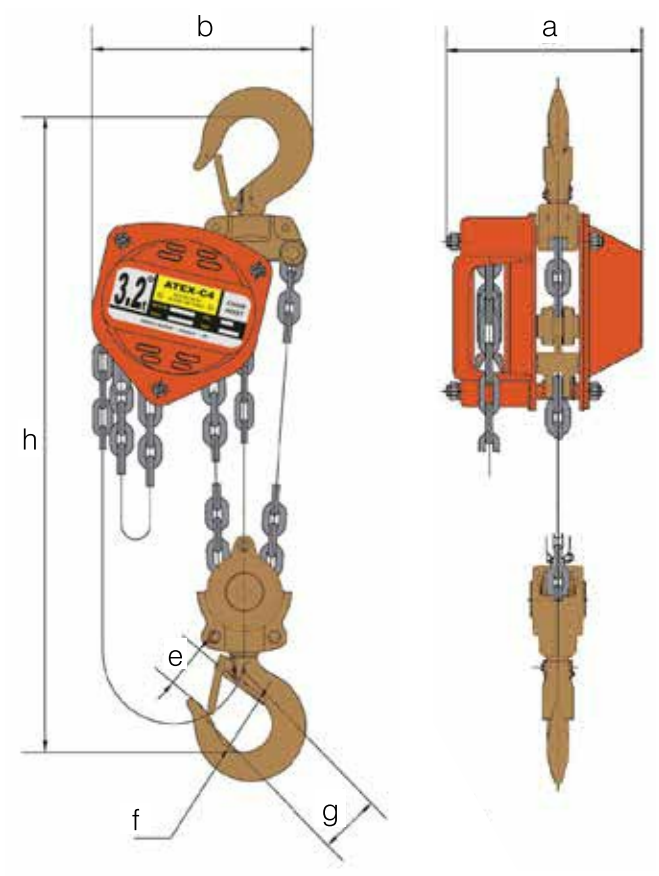
- **LIGHT LOAD CAPABILITY:** the ATEX-C4 chain hoist is tested and certified at 2% of the chain hoist rated capacity
- **SAFETY LATCHES:** the ATEX C4 chain hoist top and bottom hooks are fitted with heavy duty cast steel latches. The latch and hook tip are integrated creating a strong and robust hook closure
- **OVERLOAD INDICATOR MARKS:** the ATEX-C4 chain hoist top and bottom hooks have, as part of the hook forging, overload indicator marks either side of the hook throat. By measuring the distance between the indicator marks, the hook can be quickly and easily checked to see if any stretch has occurred due to misuse or overloading
- **CORROSION PROTECTED:** specific internal components are corrosion protected
- **COPPER PLATED PARTS:** include top and bottom hook assemblies, chain end anchor, chain stripper, roller guides and handwheel
- **HANDCHAIN:** fitted with Grade 316L stainless steel handchain
- **LOADCHAIN:** supplied with EN818-7 zinc plated loadchain as standard with an option for stainless steel Grade 6 loadchain upon request
- **BODY COVERS:** epoxy powder coated
- **HOOK HOUSING:** the ATEX-C4 chain hoist top and bottom hook housing are secured with socket head cap screws/hex head bolts and nyloc insert locking nuts
- **FLEETING/CROSS HAULING:** the ATEX C4 chain hoist is tested and certified for fleeting or cross hauling applications up to 45° from the vertical without deration
- **WLL RANGE:** 500 Kg to 5 tonne
- **TWIN PAWL:** double safety; fitted as standard
- **OVERLOAD LIMITER:** available as an option upon request
- Other sizes available upon request

Specifications and Dimensions

Single Fall



Multi Fall



Part Code	WLL tonnes	No. of Falls	Load Chain mm	Hand Chain mm	Stand. Lift m	a mm	b mm	e mm	f mm	g mm	h mm	Mass kg	Extra Weight per m kg
022.ATEX.050	0.50	1	5 x 15	5 x 25	3	125	130	27.5	32	37	280	8.10	1.38
022.ATEX.100	1.00	1	6 x 18	5 x 25	3	134	155	31.5	40	44	306	11.50	1.62
022.ATEX.200	2.00	1	8 x 24	5 x 25	3	157	185	36.5	46	52	445	16.80	2.23
022.ATEX.32D00	3.20	2	8 x 24	5 x 25	3	157	235	42.5	52	62	520	24.20	3.62
022.ATEX.500	5.00	2	10 x 30	5 x 25	3	180	262	51.0	60	77	600	39.80	5.18

ATEX-C4 Combined Chain Hoist and Push Trolley

Complies with the requirements of ATEX Directive 2014 / 34 / EU and Machinery Directive 2006 / 42 / EC

The William Hackett ATEX-C4 Combined Hoist and Trolleys meet and exceed the requirements of the following international standards:
British Standard BS EN 13157:2004 + AI:2009.

- ATEX anti-spark combined chain hoist and trolleys for use in hazardous environments
- Specific internal components corrosion protected
- Fitted with stainless steel handchain material 316L
- Supplied with EN818-7 zinc plated loadchain as standard with an option for stainless steel Grade 6 loadchain upon request
- WLL range of 500 Kg to 2 tonne
- Other sizes available upon request

Part Code	WLL tonnes	No.of Falls	Beam Range 1 mm	Beam Range 2 mm	a max mm	b mm	h mm	Mass kg Range 1
066.ATEX.050	0.50	1	50 - 203	-	294	190	314	15.00
066.ATEX.100	1.00	1	64 - 203	64 - 305	311	206	340	22.00
066.ATEX.200	2.00	1	88 - 203	88 - 305	324	246	400	34.00

ATEX-C4 Combined Chain Hoist and Geared Trolley

Complies with the requirements of ATEX Directive 2014 / 34 / EU and Machinery Directive 2006 / 42 / EC

The William Hackett ATEX-C4 Combined Hoist and Trolleys meet and exceed the requirements of international standards:
British Standard BS EN 13157:2004 + AI:2009.

- ATEX anti-spark combined chain hoist and trolleys for use in hazardous environments
- Specific internal components corrosion protected
- Fitted with Grade 316L stainless steel handchain
- Supplied with EN818-7 zinc plated loadchain as standard with an option for stainless steel Grade 6 loadchain upon request
- WLL range of 500 Kg to 2 tonne
- Other sizes available upon request

Part Code	WLL tonnes	No.of Falls	Beam Range 1 mm	Beam Range 2 mm	a max mm	b mm	h mm	Mass kg Range 1
067.ATEX.050	0.50	1	50 - 203	-	320	200	314	15.60
067.ATEX.100	1.00	1	64 - 203	64 - 305	333	232	340	25.50
067.ATEX.200	2.00	1	88 - 203	88 - 305	342	260	400	37.50

William Hackett

ATEX-L4 Lever Hoist

Ex II 2G c IIC T4

Ex II c IIIC T135°C

e: sales@dale-lifting.co.uk
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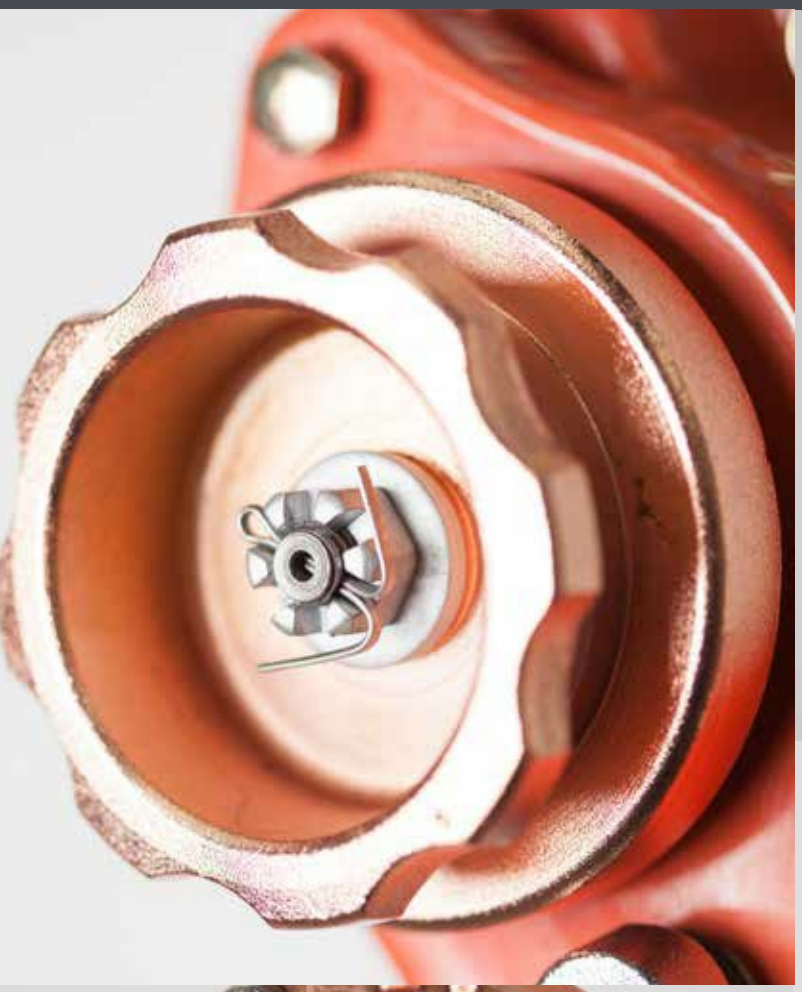
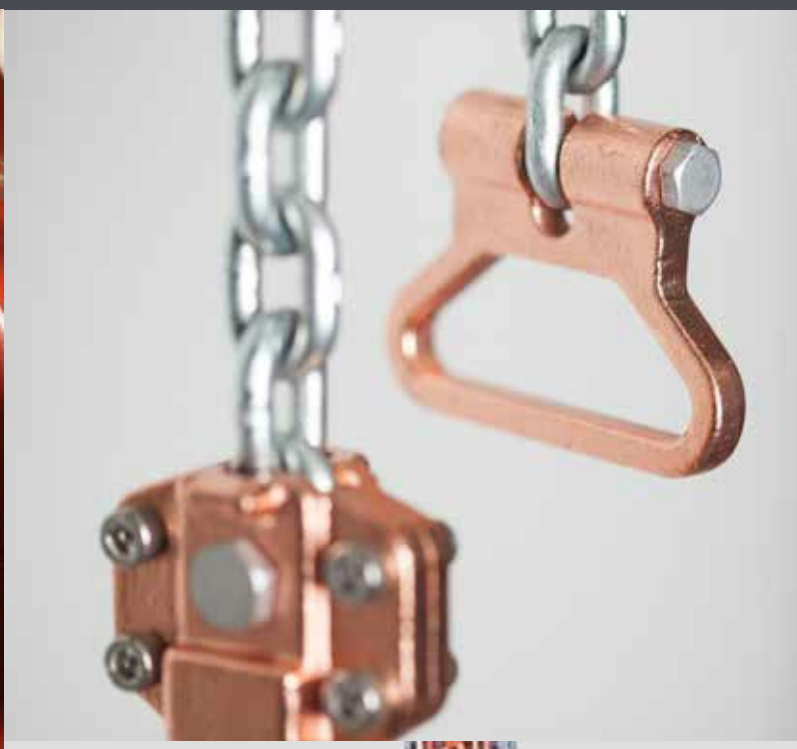
ATEX-L4 Lever Hoist





ATEX-L4 Lever Hoist

The William Hackett ATEX-L4 lever hoist complies with the requirements of ATEX Directive 2014 / 34 / EU and Machinery Directive 2006 / 42 / EC

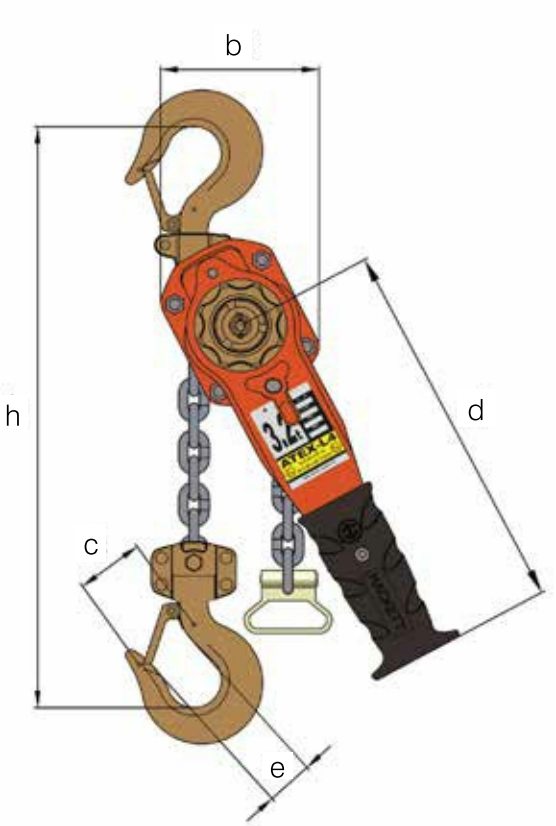
The ATEX-L4 lever hoist meets and exceeds the requirements of the following international standards:
British Standard BS EN13157:2004 + AI:2009
American Standard ASME B30.16-2012
Australian Standard AS1418.2-1997
South African Standard SANS 1594:2007
NORSOK R-002: 2017.

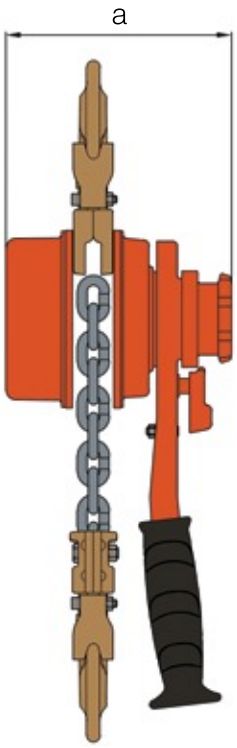
The design and specification of the William Hackett ATEX-L4 lever hoist includes:

- **CORROSION PROTECTED:** specific internal components corrosion protected
- **COPPER PLATED** parts include top and bottom hook assemblies, loadchain guides, grip rings and chain stripper
- **LOADCHAIN:** supplied with EN818-7 zinc plated loadchain as standard with an option for stainless steel Grade 6 loadchain upon request
- **OVERLOAD INDICATOR MARKS:** the ATEX-L4 lever hoist top and bottom hooks have, as part of the hook forging, overload indicator marks either side of the hook throat. By measuring the distance between the indicator marks, the hook can be quickly and easily checked to see if any stretch has occurred due to misuse or overloading
- **BODY COVER:** epoxy powder coated
- **WLL RANGE:** 800 kg to 3.2 tonne
- **HOOK HOUSING:** the ATEX-L4 lever hoist top and bottom hook housings are secured with socket head cap screws/hex head bolts and nyloc locking nuts
- **TWIN PAWL:** double safety; fitted as standard
- **FLEETING/CROSS HAULING:** the ATEX-L4 lever hoist is tested and certified for fleeting or cross hauling applications up to 45° from the vertical without deration
- Other sizes available upon request

ATEX-L4 Lever Hoist

Specifications and Dimensions

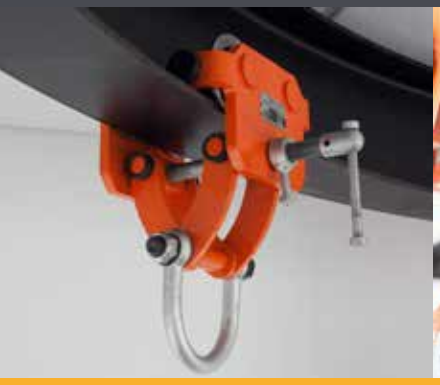




Part Code	WLL tonnes	No. of Falls	Load Chain mm	Stand. Lift (m)	a mm	b mm	c mm	d mm	e mm	h mm	Mass kg	Extra Weight per m kg
033.ATEX.075	0.80	1	5.6 x 17	1.5	148.0	121	40	265	28	280	6.20	0.70
033.ATEX.150	1.60	1	7.1 x 21	1.5	165.5	141	47	415	33	350	9.60	1.10
033.ATEX.320	3.20	1	10 x 30	1.5	194.5	178	62.5	415	42.5	420	15.50	1.70

William Hackett

TROLLEYS



WH-PT Push Trolley

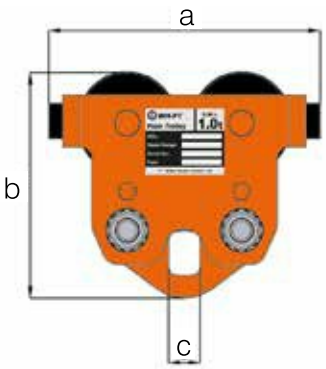
The William Hackett WH-PT Push Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + AI:2009.

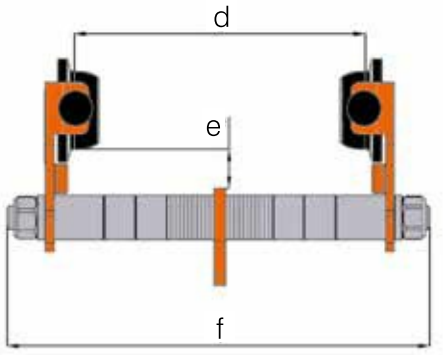
This high quality trolley range is precision engineered in W.L.L. capacities from 500 kg to 10 tonnes.

Enabling exact positioning or easy traversing of large loads incorporating manual hoists, the William Hackett series push trolley can be supplied to suit various track widths within the standard beam range 1 and the extended beam range 2.

The runners (trolley wheels) are precision machined and they rotate on maintenance sealed ball bearings.

All William Hackett push trolleys are fitted with anti-jump bars and rubber end stops as standard.





Part Code	WLL tonnes	Min. Radius of Curve m	a mm	b mm	c mm	e mm
044.050	0.50	0.80	190	154	22	27
044.100	1.00	0.90	206	180	30	26
044.200	2.00	1.00	246	210	37	26
044.320	3.20	1.20	300	249	42	28
044.500	5.00	1.30	336	277	50	37
044.1000	10.00	2.00	396	334	58	37

Standard Range 1

WLL tonnes	I Beam width mm	d Max. Width mm	f Max. mm	Mass kg
0.50	50-203	203	294	6.60
1.00	64-203	203	311	9.40
2.00	88-203	203	324	14.50
3.20	100-203	203	348	25.70
5.00	114-203	203	369	37.30
10.00	124-203	203	384	59.00

Extended Range 2

WLL tonnes	I Beam width mm	d Max. Width mm	f Max. mm	Mass kg
0.50	-	-	-	-
1.00	64-305	305	413	11.10
2.00	88-305	305	426	16.30
3.20	100-305	305	450	28.50
5.00	114-305	305	471	41.00
10.0	124-305	305	486	64.00

WH-GT Geared Trolley

The William Hackett WH-GT Geared Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + AI:2009.

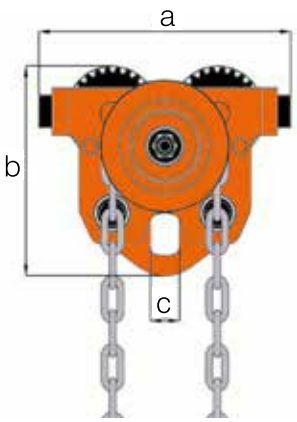
This high quality trolley range is precision engineered in W.L.L. capacities from 500 kg to 10 tonnes.

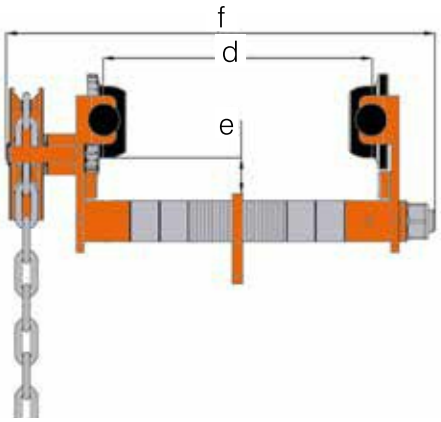
Enabling exact positioning or easy traversing of large loads incorporating manual hoists, the William Hackett series geared trolley can be supplied to suit various track widths within the standard beam range 1 and the extended beam range 2.

It has been designed so that the bottom of the hand chain loop is located approximately 500mm from ground level.

The runners (trolley wheels) are precision machined and they rotate on maintenance sealed ball bearings.

All William Hackett geared trolleys are fitted with anti-jump bars and rubber end stops as standard.





Part Code	WLL tonnes	Min. Radius of Curve m	a mm	b mm	c mm	e mm
055.050	0.50	0.8	190	154	22	27
055.100	1.00	0.9	206	180	30	26
055.200	2.00	1.0	246	210	37	26
055.320	3.20	1.2	300	249	42	28
055.500	5.00	1.3	336	277	50	37
055.1000	10.00	2.0	396	334	58	37

Standard Range 1

WLL tonnes	I Beam width mm	d Max. Width mm	f Max. mm	Mass kg
0.5	50-203	203	323	9.60
1.0	64-203	203	332	12.30
2.0	88-203	203	341	17.20
3.2	100-203	203	359	28.40
5.0	114-203	203	366	40.10
10.0	124-203	203	386	62.00

Extended Range 2

WLL tonnes	I Beam width mm	d Max. Width mm	f Max. mm	Mass kg
0.5	-	-	-	-
1.0	64-305	305	434	13.70
2.0	88-305	305	443	19.00
3.2	100-305	305	461	31.20
5.0	114-305	305	468	44.20
10.0	124-305	305	488	67.00

WH-PT Corrosion Protected Push Trolley

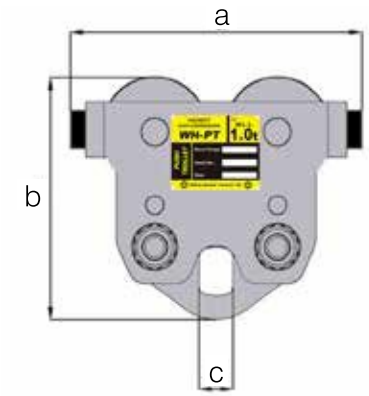
The William Hackett WH-PT Corrosion Protected Push Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + AI:2009.

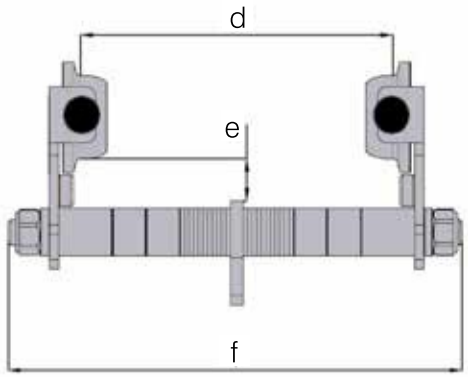
This high quality trolley range is precision engineered in W.L.L. capacities from 500 kg to 5 tonnes.

Enabling exact positioning or easy traversing of large loads incorporating Manual hoists, the William Hackett series push trolley can be supplied to suit various track widths within the standard beam range 1 and the extended beam range 2.

The runners (trolley wheels) are precision machined and they rotate on maintenance sealed ball bearings.

All William Hackett push trolleys are fitted with anti-jump bars and rubber end stops as standard.





Part Code	WLL tonnes	Min. Radius of Curve m	a mm	b mm	c mm	e mm
044.050.CP	0.50	0.8	190	154	22	27
044.100.CP	1.00	0.9	206	180	30	26
044.200.CP	2.00	1.0	246	210	37	26
044.300.CP	3.20	1.2	300	249	42	28
044.500.CP	5.00	1.3	336	277	50	37

Standard Range 1

WLL tonnes	I Beam width mm	d Max. Width mm	f Max. mm	Mass kg
0.50	50-203	203	294	6.60
1.00	64-203	203	311	9.40
2.00	88-203	203	324	14.50
3.20	100-203	203	348	25.70
5.00	114-203	203	369	37.30

Extended Range 2

WLL tonnes	I Beam width mm	d Max. Width mm	f Max. mm	Mass kg
0.50	-	-	-	-
1.00	64-305	305	413	11.10
2.00	88-305	305	426	16.30
3.20	100-305	305	450	28.50
5.00	114-305	305	471	41.00

WH-GT Corrosion Protected Geared Trolley

The William Hackett WH-GT Corrosion Protected Geared Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + AI:2009.

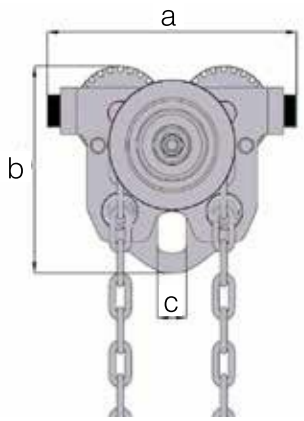
This high quality trolley range is precision engineered in W.L.L. capacities from 500 kg to 5 tonnes.

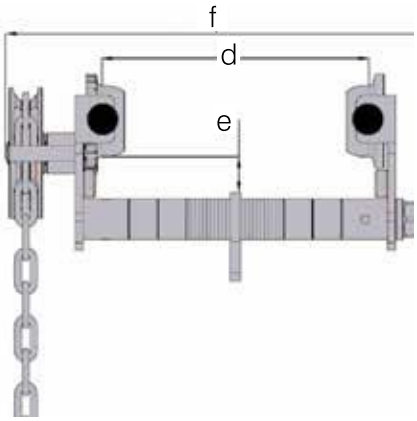
Enabling exact positioning or easy traversing of large loads incorporating Manual hoists, the William Hackett series geared trolley can be supplied to suit various track widths with beam range 1 and the extended beam range 2.

It has been designed so that the bottom of the hand chain loop is located approximately 500mm from ground level.

The runners (trolley wheels) are precision machined and they rotate on maintenance sealed ball bearings.

All William Hackett geared trolleys are fitted with anti-jump bars rubber end stops as standard.





Part Code	WLL tonnes	Min. Radius of Curve m	a mm	b mm	c mm	e mm
055.050.CP	0.50	0.8	190	154	22	27
055.100.CP	1.00	0.9	206	180	30	26
055.200.CP	2.00	1.0	246	210	37	26
055.300.CP	3.20	1.2	300	249	42	28
055.500.CP	5.00	1.3	336	277	50	37

Standard Range 1

WLL tonnes	I Beam width mm	d Max. Width mm	f Max. mm	Mass kg
0.50	50-203	203	323	9.60
1.00	64-203	203	332	12.30
2.00	88-203	203	341	17.20
3.20	100-203	203	359	28.40
5.00	114-203	203	366	40.10

Extended Range 2

WLL tonnes	I Beam width mm	d Max. Width mm	f Max. mm	Mass kg
0.50	-	-	-	-
1.00	64-305	305	434	13.70
2.00	88-305	305	443	19.00
3.20	100-305	305	461	31.20
5.00	114-305	305	468	44.20

WH-PT ATEX Push Trolley

Complies with the requirements of ATEX Directive 2014 / 34 / EU and Machinery Directive 2006 / 42 / EC

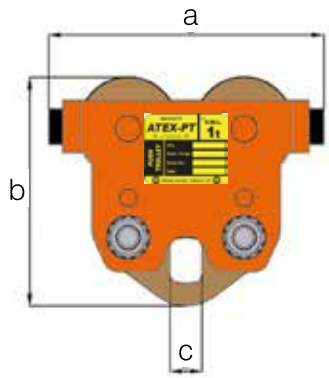
The William Hackett ATEX Push Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + AI:2009.

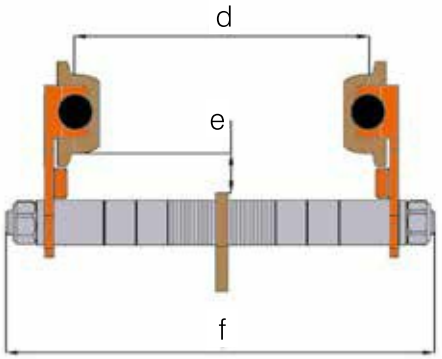
This high quality trolley range is precision engineered in W.L.L. capacities from 500 kg to 2 tonnes.

Enabling exact positioning or easy traversing of large loads incorporating manual hoists, the William Hackett series push trolley can be supplied to suit various track widths within the standard beam range 1 and the extended beam range 2.

The runners (trolley wheels) are precision machined and they rotate on maintenance sealed ball bearings.

All William Hackett push trolleys are fitted with anti-jump bars and rubber end stops as standard. They are also fitted with solid bronze wheels and have a copper plated hanging plate. Other sizes are available upon request.





Part Code	WLL tonnes	Min. Radius of Curve m	a mm	b mm	c mm	e mm
044.ATEX.050	0.50	0.8	190	154	22	27
044.ATEX.100	1.00	0.9	206	180	30	26
044.ATEX.200	2.00	1.0	246	210	37	26

Standard Range 1

WLL tonnes	I Beam width mm	d Max. Width mm	f Max. mm	Mass kg
0.50	50-203	203	294	6.60
1.00	64-203	203	311	9.40
2.00	88-203	203	324	14.50

Extended Range 2

WLL tonnes	I Beam width mm	d Max. Width mm	f Max. mm	Mass kg
0.50	-	-	-	-
1.00	64-305	305	413	11.10
2.00	88-305	305	426	16.30

Ex II 2 GD c IIC T4 IIIC T135°C

II	2	GD	c	IIC	T4	IIIC	T135°C		
								T135°C	Dust Temperature Class: Maximum external surface temperature 135°C
								IIIC	Groups of Dust: Protected for group IIIC which includes groups IIIA & IIIB
								T4	Gas Temperature Class: Maximum external surface temperature 135°C
								IIC	Gas Explosion Group: Protected for group IIC which includes groups IIA & IIB
								c	Protection type: Design safety
								GD	Ex Atmosphere: Gas and Dust
								2	Category: High Safety
								II	Equipment Group: surface industries

WH-GT ATEX Geared Trolley

Complies with the requirements of ATEX Directive 2014 / 34 / EU and Machinery Directive 2006 / 42 / EC

The William Hackett ATEX Geared Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + AI:2009.

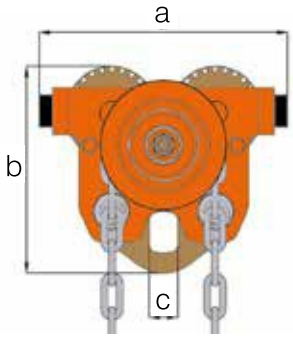
This high quality trolley range is precision engineered in W.L.L. capacities from 500 kg to 2 tonnes. Other sizes are available upon request.

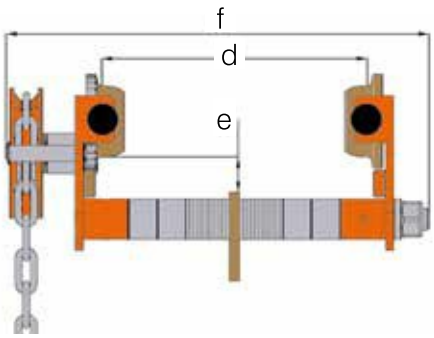
Enabling exact positioning or easy traversing of large loads incorporating manual hoists, the William Hackett series geared trolley can be supplied to suit various track widths within the standard beam range 1 and the extended beam range 2.

It has been designed so that the bottom of the hand chain loop is located approximately 500 mm from ground level.

The runners (trolley wheels) are precision machined and they rotate on maintenance sealed ball bearings.

All William Hackett geared trolleys are fitted with anti-jump bars and rubber end stops as standard. They are also fitted with solid bronze wheels and have a copper plated hanging plate.





Part Code	WLL tonnes	Min. Radius of Curve m	a mm	b mm	c mm	e mm
055.ATEX.050	0.50	0.8	190	154	22	27
055.ATEX.100	1.00	0.9	206	180	30	26
055.ATEX.200	2.00	1.0	246	210	37	26

Standard Range 1

WLL tonnes	I Beam width mm	d Max. Width mm	f Max. mm	Mass kg
0.50	50-203	203	323	9.60
1.00	64-203	203	332	12.30
2.00	88-203	203	341	17.20

Extended Range 2

WLL tonnes	I Beam width mm	d Max. Width mm	f Max. mm	Mass kg
0.50	-	-	-	-
1.00	64-305	305	434	13.70
2.00	88-305	305	443	19.00

Ex II 2 GD c IIC T4 IIIC T135°C

II	2	GD	c	IIC	T4	IIIC	T135°C		
								T135°C	Dust Temperature Class: Maximum external surface temperature 135°C
								IIIC	Groups of Dust: Protected for group IIIC which includes groups IIIA & IIIB
								T4	Gas Temperature Class: Maximum external surface temperature 135°C
								IIC	Gas Explosion Group: Protected for group IIC which includes groups IIA & IIB
								c	Protection type: Design safety
								GD	Ex Atmosphere: Gas and Dust
								2	Category: High Safety
								II	Equipment Group: surface industries

WH-AT Adjustable Push Trolley

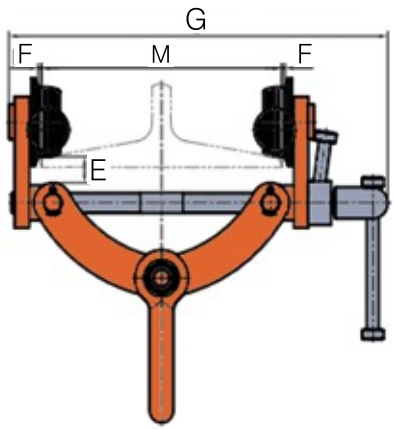
Manufactured in accordance with BS EN13155: 2003 + A2: 2009 - Cranes - Safety – Non Fixed Load Lifting Attachments.

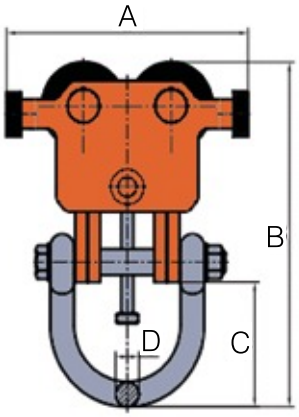
The William Hackett WH-AT Adjustable Push Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + AI:2009.

The WH-AT Adjustable Push Trolley features a light weight robust construction, allowing quick and effective installation onto various beams and girders.

The adjustable trolley is fitted with wheel guard anti-drop plates and precision ball bearing wheels allowing easy movement along the beam. It adapts to the beam width by turning the adjustable bar and is fitted with a locking mechanism for ensuring secure clamping to the beam.

W.L.L. capacities of 2.0 tonnes, 3.2 tonnes and 6.0 tonnes are available and the trolleys are designed to accommodate a range of beam widths.





Part Code	WLL tonnes	Min. Radius of Curve m	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Beam Width M mm	Mass kg
014.200	2.00	0.7	204	276 - 322	100	20	21	2.5	320	76 - 203	8.10
014.320	3.20	1.1	246	334 - 374	111	20	25	2.5	330	76 - 203	14.25
014.600	6.00	1.4	286	384 - 463	124	25	33	3.0	454	100 - 305	27.40

William Hackett

BEAM CLAMPS

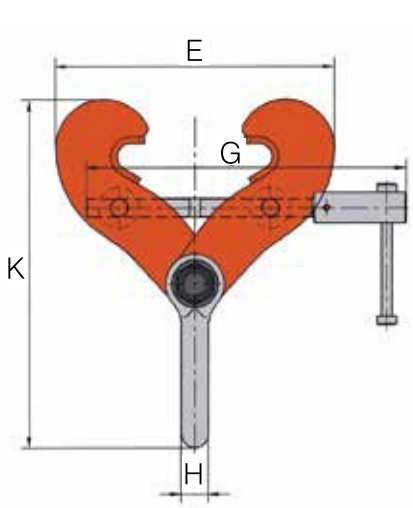
e: sales@dale-lifting.co.uk
t: 0161 223 1990

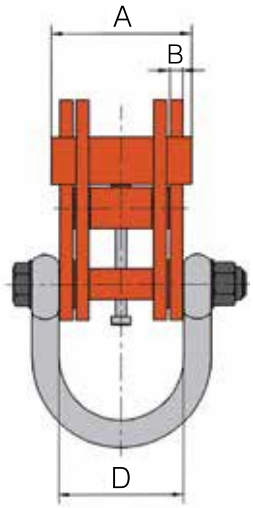
Fixed Jaw Super Clamp

Manufactured in accordance with BS EN13155: 2003 + A2: 2009 - Cranes - Safety – Non Fixed Load Lifting Attachments.

The WH-BC fixed jaw super clamp is fitted with a 'gussett' in both jaws of the beam clamp maximising contact between the beam and beam clamp thereby increasing the grip of the beam clamp. A shackle is fitted to the bottom of the beam clamp allowing an easy connection of the hoist to be attached.

This fixed jaw super clamp can be used to an angle of 45° to the vertical. When the angle is moved away from the vertical the working load limit of the beam clamp needs to be reduced. Please refer to the table opposite on page 59 for the reduction in working load limits when side loads are applied.





Part Code	Model No.	WLL tonnes	Beam Range mm	Max. Beam Thickness mm	A mm	B mm	D mm	E max	E min	G mm	K max	K min	H mm	Mass kg
027.200	WH-BC2	2.00	76 - 190	20	130	3	90	254	133	275	263	223	20	4.00
027.300	WH-BC3	3.00	76 - 190	28	130	12	102	275	166	275	289	251	20	8.00
027.320.E	WH-BC3W	3.20	127 - 350	28	130	12	102	438	228	560	375	294	20	11.50
027.400	WH-BC4	4.00	150 - 254	24	130	10	112	371	185	410	369	308	25	11.00
027.500	WH-BC5	5.00	76 - 190	24	130	12	116	306	191	295	338	300	25	10.00
027.500.E	WH-BC5W	5.00	150 - 305	24	130	12	116	422	264	410	413	360	25	15.00
027.600	WH-BC6	6.00	203 - 457	36	140	12	116	608	267	560	511	402	25	18.80
027/1000	WH-BC10	10.00	203 - 457	36	140	20	118	608	267	560	530	421	32	28.00
027/1500	WH-BC15	15.00	203 - 457	66	170	20	116.5	648	400	660	684	608	40	49.50
027/1500.E	WH-BC15W	15.00	406 - 610	66	170	20	116.5	800	600	810	812	706	40	58.50

WH-BC Fixed Jaw Super Clamp

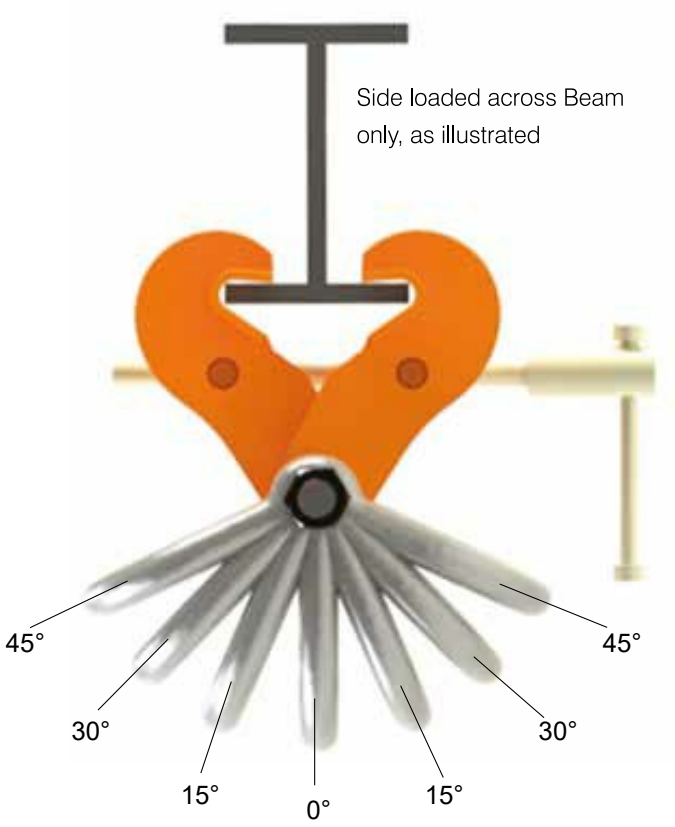
The working load limits below and derations have been established specifically for most William Hackett clamps and only apply in overhead beam attachment i.e: DO NOT apply if clamps are to be used for lifting beams.

The tables apply to our clamps only (selected models) and we strongly advise that stress calculations should be carried out (by the user's engineering department) for all support steelwork.

WARNING: All clamps must be correctly applied to the beam by a competent person and fully hand tightened. If in doubt, contact the manufacturer for their recommendations.

NOTE: Clamp model WH-BC2 (027.200) is not suitable for any side loading as it is of lightweight design.

Although William Hackett is confident that our beam clamps could operate at 90 degrees without any reduction in efficiency, William Hackett do not recommend this type of use in application, as there will be a significant overturning moment generated on the beam flange and this could result in the actual supporting structure failing or being permanently deformed and or damaged. If clamps are used in any other way than that indicated above William Hackett will not accept any liability and would strongly recommend that this unsafe practice is not adopted.



Reduction in Working Load Limits when Side Loads are Applied

Angle From Vertical	0°	0° to 15°	15° to 30°	30° to 45°
Reduction Factor	Nil	17%	34%	50%
Models	**WLL**	**WLL**	**WLL**	**WLL**
027.200	2 tonne	N/A	N/A	N/A
027.300, 027.320.E	3 tonne / 3.2 tonne	2.5 tonne	2 tonne	1.5 tonne
027.400	4 tonne	3.3 tonne	2.6 tonne	2 tonne
027.500, 027.500.E	5 tonne	4.1 tonne	3.3 tonne	2.5 tonne
027.600	6 tonne	5 tonne	4 tonne	3 tonne
027/1000	10 tonne	8.3 tonne	6.5 tonne	5 tonne
027/1500, 027/1500.E	15 tonne	12.4 tonne	10 tonne	7.5 tonne

WH-UBC Universal Beam Clamp

Manufactured in accordance with BS EN13155: 2003 + A2: 2009 - Cranes - Safety – Non Fixed Load Lifting Attachments.

The William Hackett WH-UBC Universal Beam Clamp has been designed not only for vertical use, but also for side load applications, where conventional clamps are not suitable.

The Universal Beam Clamp is suitable for pulling and lifting at angles across the beam or as a semi-permanent anchor point.

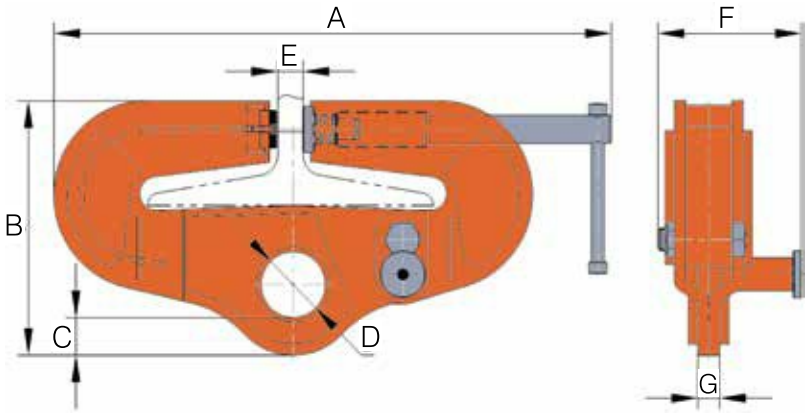
It can be **loaded at any angle** and eliminates the use of spreader beams in various lifting operations.

Fitted with an adjustable locking mechanism, ensuring secure clamping to the beam.

Built-in suspension point for low headroom design.

Lightweight design allowing for quick clamping and unclamping.

W.L.L. capacities available at 3.2 tonnes, 5.0 tonnes and 10.0 tonnes and designed to accommodate a range of beam widths.



Part Code	WLL tonnes	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Beam Width mm	Mass kg
028.320	3.20	550	237	30	Ø60	32	133	20	125 - 204	14.40
028.500	5.00	615	275	40	Ø75	32	157	44	125 - 305	26.20
028.1000	10.00	615	275	40	Ø75	32	225	44	125 - 305	38.50

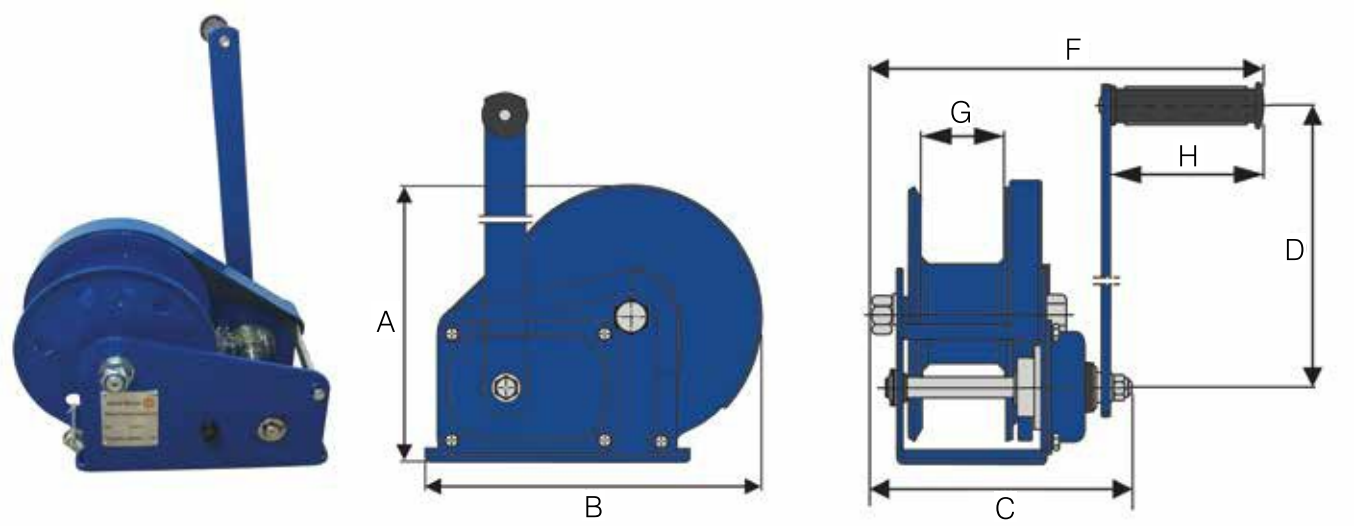
Hand Winch

Manufactured in accordance with BS EN13155: 2003 + A2: 2009 - Cranes - Safety – Non Fixed Load Lifting Attachments.

The positive action brake on the William Hackett hand winch can hold the load in any position. The brake is sealed in a strong steel cover to protect from dust and rain. It is compact, light weight and is of durable construction.

The winch should only be used for pulling.

A notable feature of the William Hackett hand winch brake system is that it is fitted with two pawls to provide extra safety under all operating conditions.



Part Code	A mm	B mm	C mm	D mm	F mm	G mm	H mm	Mass kg
011.120	145	184	157	208	273	51	110	3.70
011.180	203	246	190	319	288	60	110	8.10
011.260	216	294	209	319	307	63	110	10.30

Part Code	011.120	011.180	011.260
Pulling Capacity (lb / kg)	1200lb / 550kg	1800lb / 800kg	2600lb / 1180kg
Hand Operated Strength (N)	180	190	190
Transmission/Gear Ratio	4.2 : 1	5 : 1	10 : 1
Rope Diameter	Ø 5mm	Ø 7mm	Ø 8mm
Rope Capacity (m)	25	25	20

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