



**William Hackett**

*Lifting Products Limited*



*HOISTING*



# Certification



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).





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**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.

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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.

A/B		Batch	Lot No / Serial No	Product	Description	Qty	Working Load Limit	Proof Load	Min Breaking Load
A	P10413	41460201 41460222 41460200	HN022.053	500KG HACKETT CHAIN BLOCK 3 MTR HOL C4 to EN13157	3	500KG	750KG		
A	P10412	41080065 41080101 41080073 41080077	HN034.080	800 Kg WH-L5 Lever Hoist x 1.5mt hol, to EN13157	4	800KG	1.2 TONNE		
A	Q09177	1400077	HN044.050	500 Kg Twin Bar Hackett Push Trolley to EN13157	1	500 kg	1.5 TONNE		
B	Q09492	WUD/Y3E	HN8-026-13	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	HN8-026-16	16mm Yoke Grade 8 Clevis Self Locking Hook to EN1677-3	6	8.0 TONNES	196.0 kN	314.0 kN	


**William Hackett  
Chains Ltd**  
Established 1892



**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

**DUAL PURPOSE DOCUMENT**  
**EC DECLARATION OF CONFORMITY**  
DECLARATION  
I DECLARE THAT THE ITEMS DESCRIBED ON THIS DOCUMENT COMPLY WITH THE REQUIREMENTS OF THE MACHINERY DIRECTIVE 2006/42/EC

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


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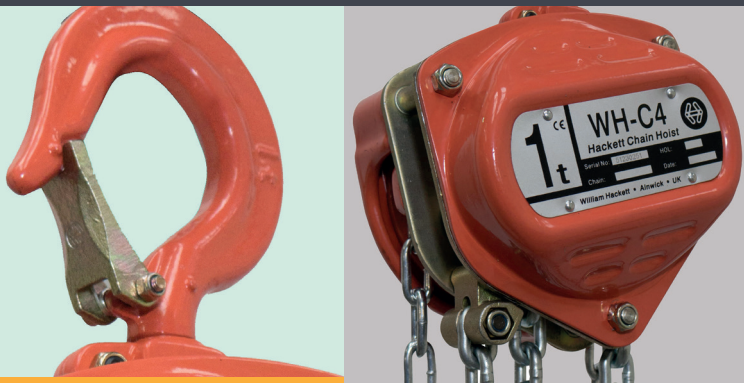
Report Version 1-4





**William Hackett**

## WH-C4 CHAIN HOIST





## 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 + A1:2009**

**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:

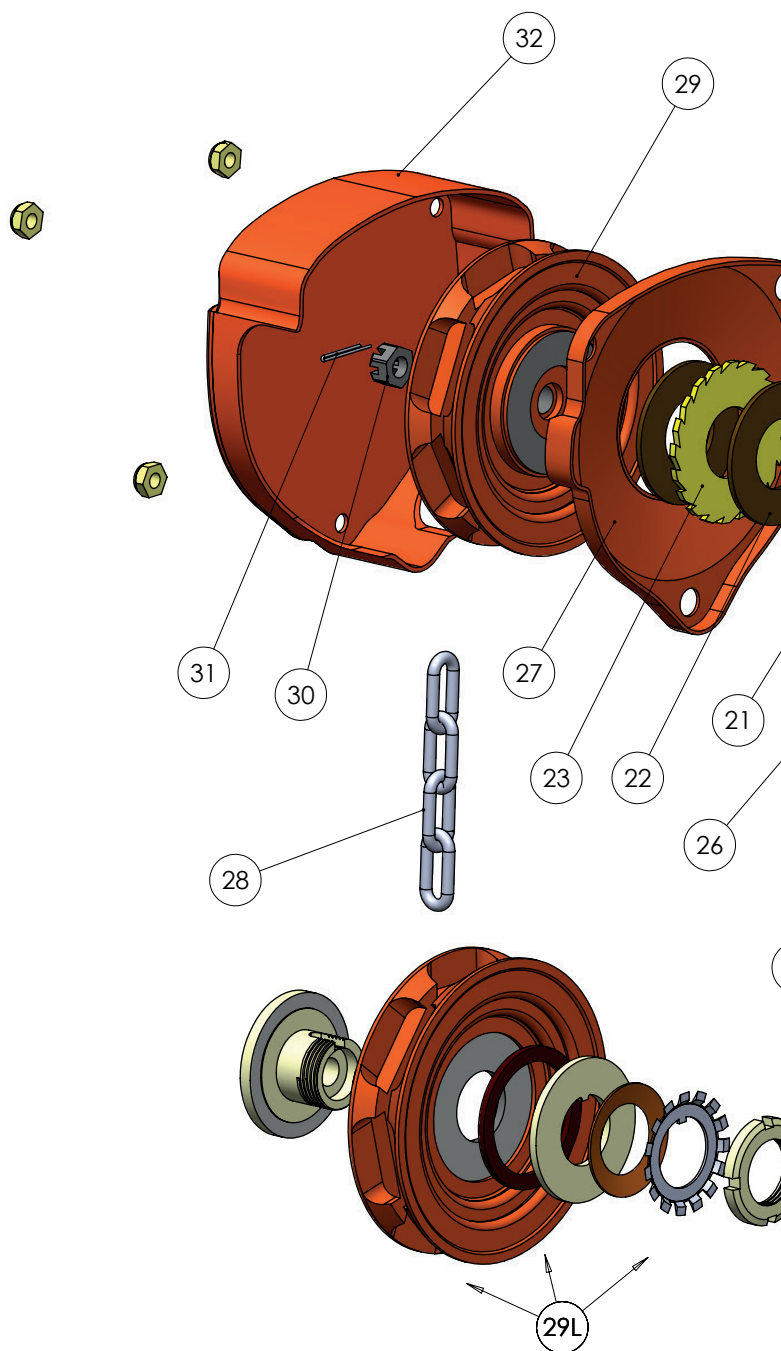
- **WORKING LOAD LIMIT RANGE:** 500kg to 50 tonnes.
- **LIGHT LOAD CAPABILITY:** the WH-C4 is tested and certified at 2% of the chain hoist rated capacity.
- **TWIN PAWL:** double safety; fitted as standard.
- **SAFETY LATCHES:** the WH-C4 chain hoist top and bottom hooks are fitted with heavy duty cast 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.



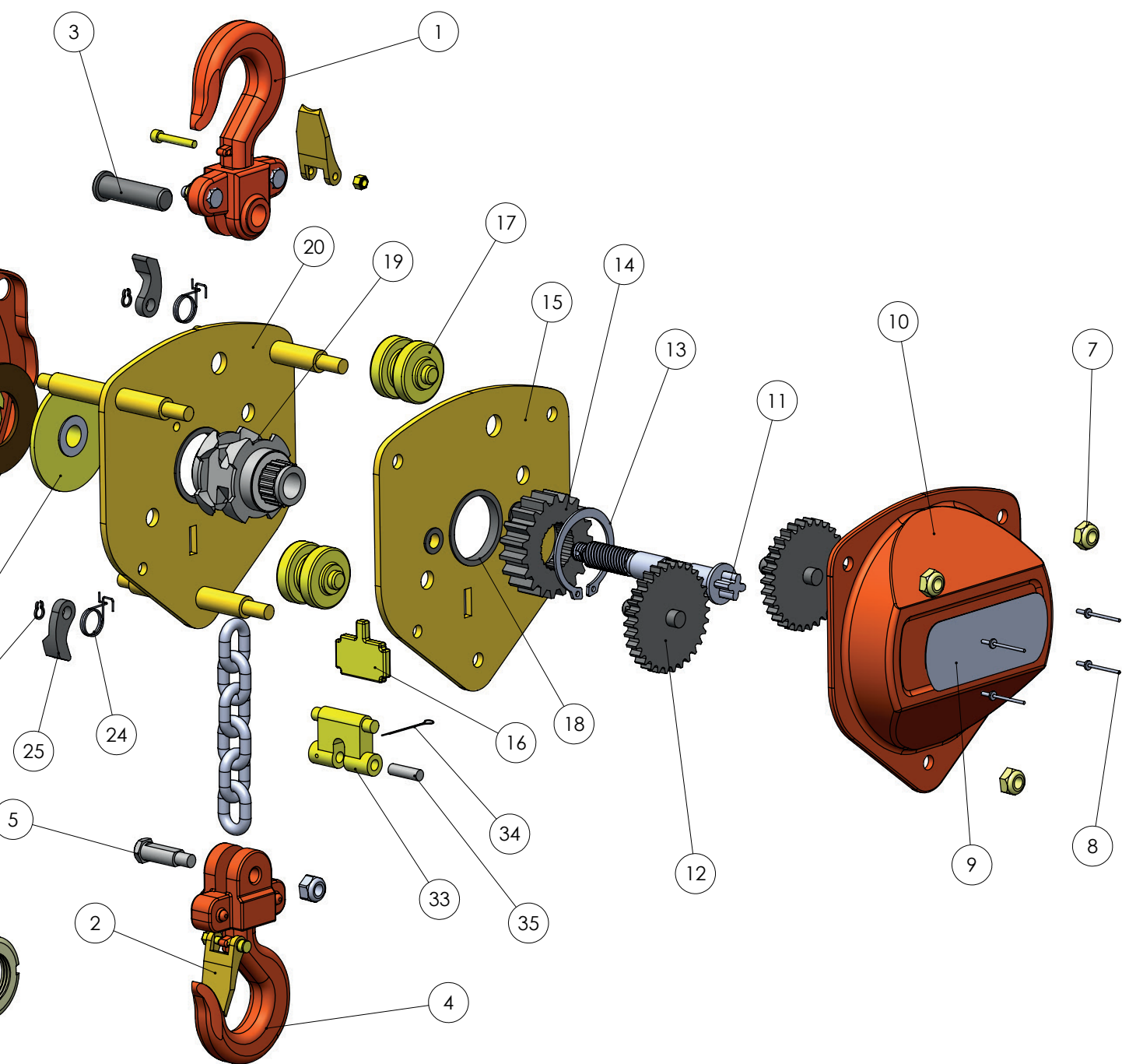
# WH-C4 Chain Hoist

## 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



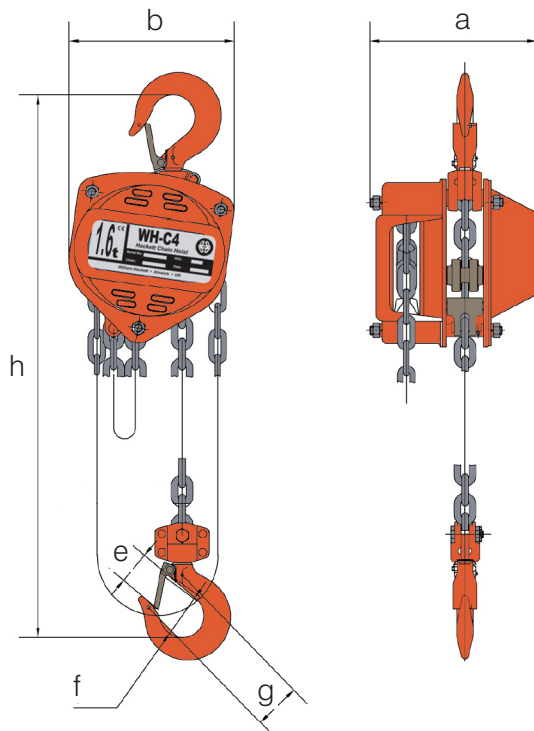




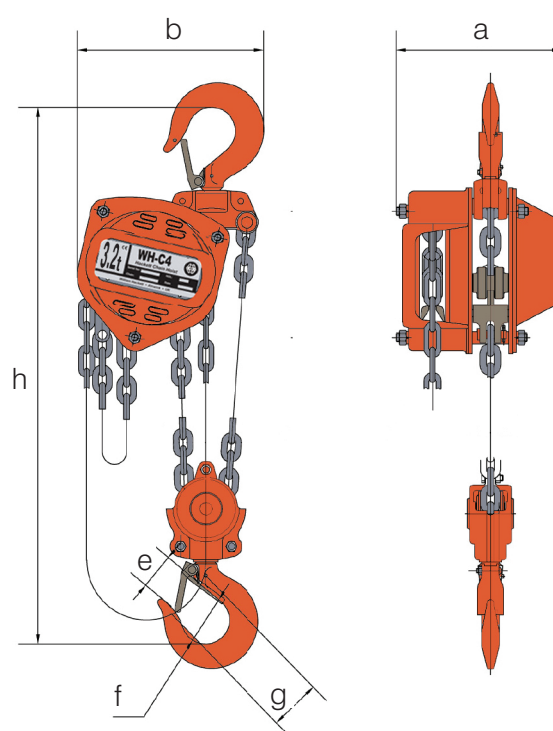
# WH-C4 Chain Hoist

## 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

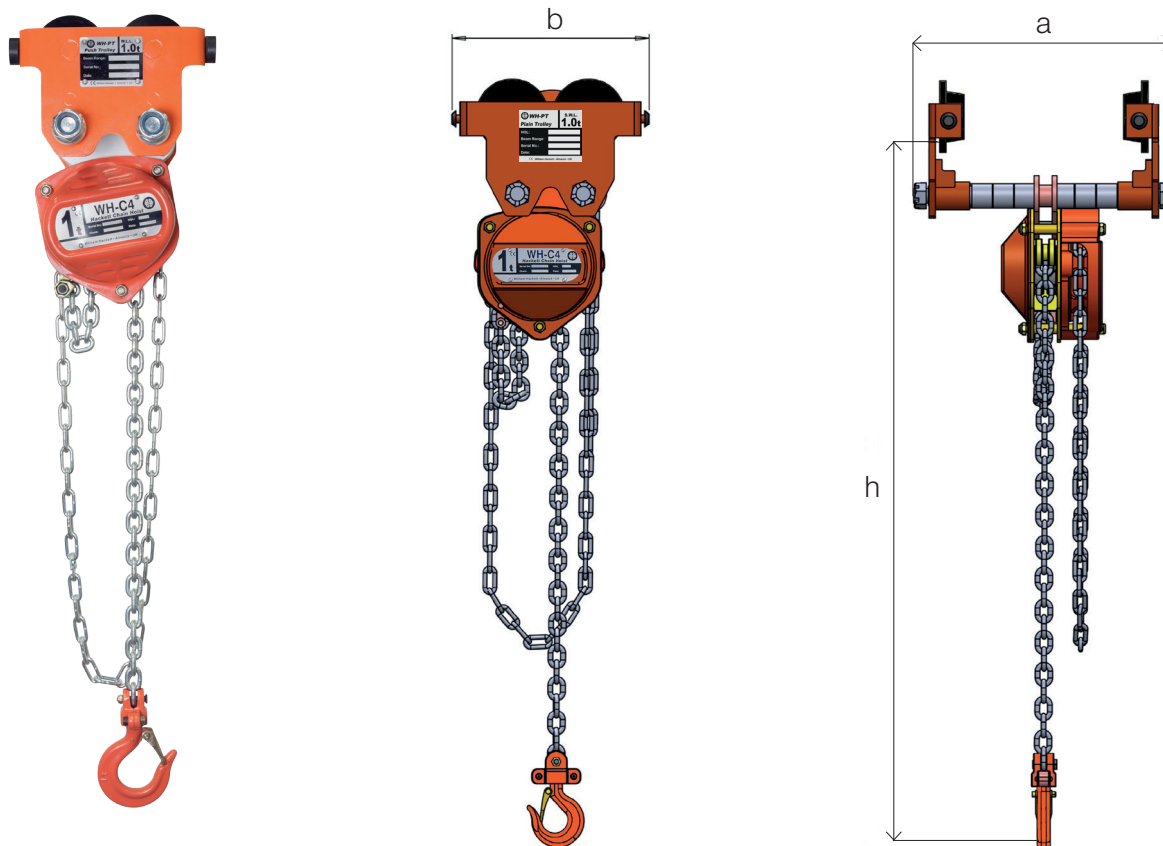


# WH-C4 Combination Chain Hoists

## 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 + A1:2009.



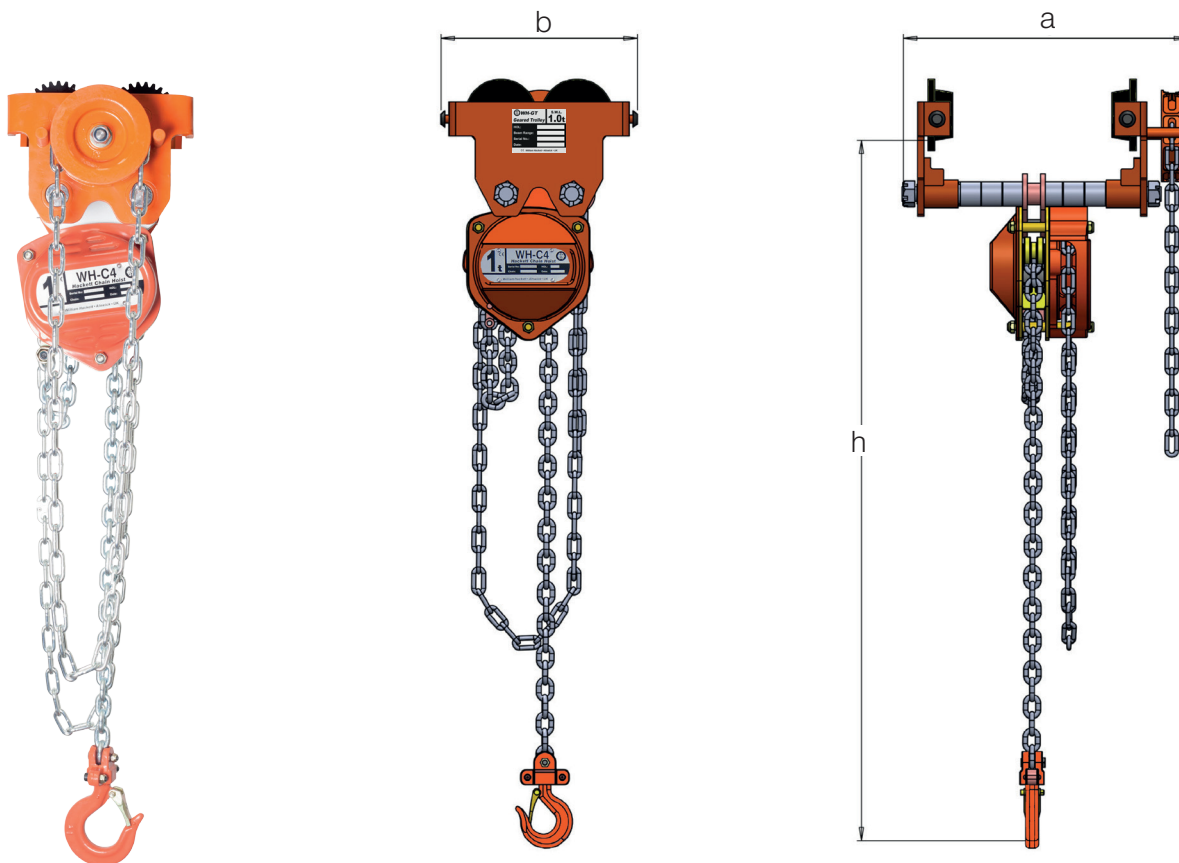
Part Code	WLL tonnes	No.of Falls	Beam Range 1 mm	Beam Range 2 mm	a max mm	b mm	h mm	Mass kg Range 1
066.050	0.50	1	50 - 203	-	294	190	295	15.00
066.100	1.00	1	64 - 203	64 - 305	311	206	305	22.00
066.200	2.00	1	88 - 203	88 - 305	324	246	437	34.00
066.320	3.20	2	100 - 203	100 - 305	348	300	493	53.00
066.500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

# WH-C4 Combination Chain Hoists

## 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 + A1:2009.

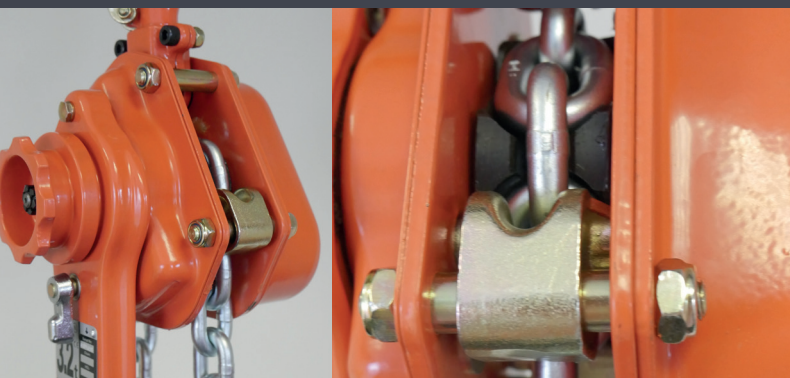


Part Code	WLL tonnes	No.of Falls	Beam Range 1 mm	Beam Range 2 mm	a max mm	b mm	h mm	Mass kg Range 1
067.050	0.50	1	50 - 203	-	232	190	295	15.60
067.100	1.00	1	64 - 203	64 - 305	332	206	305	25.50
067.200	2.00	1	88 - 203	88 - 305	341	246	437	37.50
067.320	3.20	2	100 - 203	100 - 305	359	300	493	57.00
067.500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

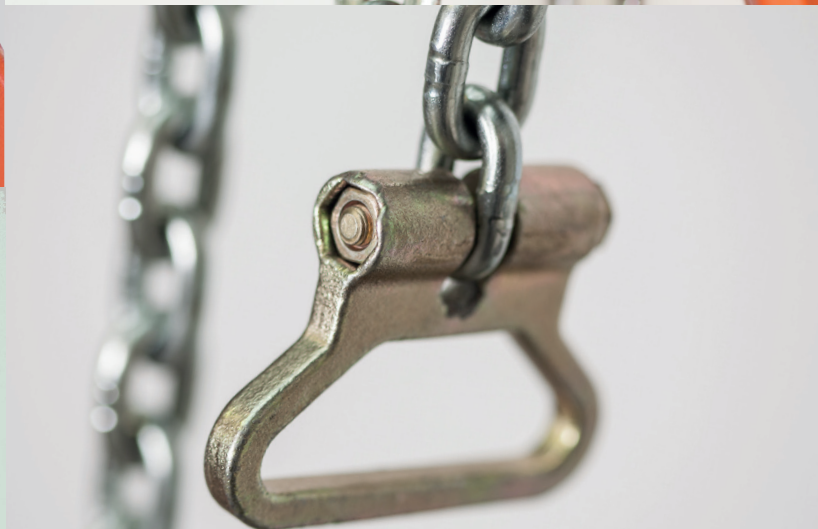
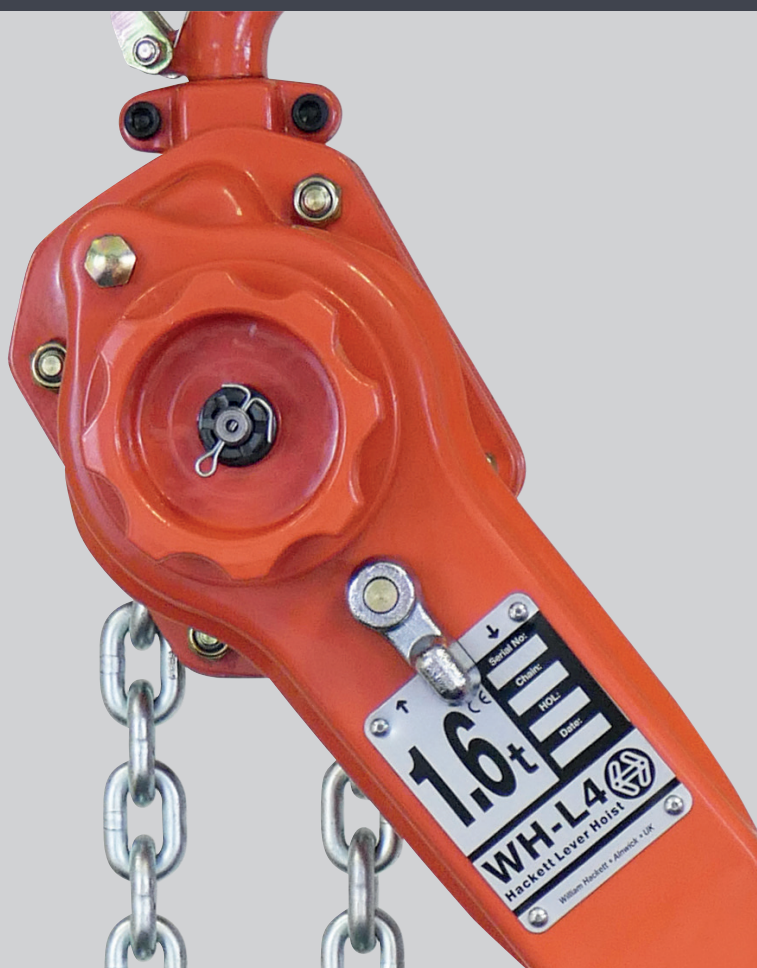




## WH-L4 LEVER HOIST



## 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 + A1:2009**  
**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:

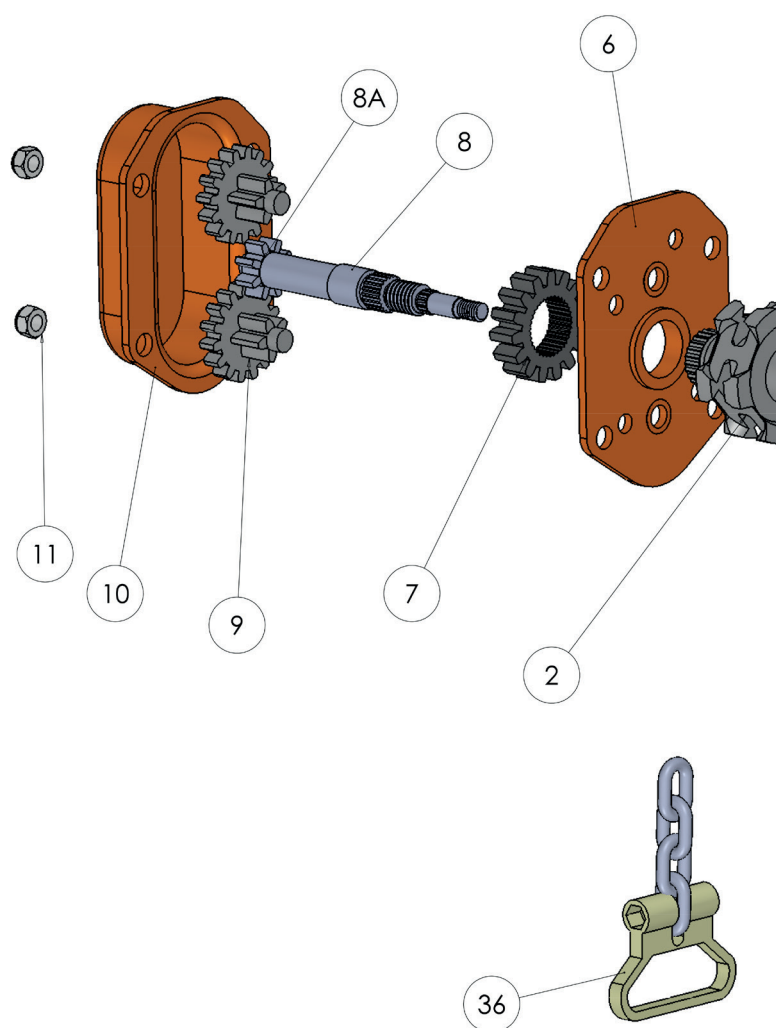
- **WORKING LOAD LIMIT RANGE:** 800kg to 20 tonnes.
- **LIGHT LOAD CAPABILITY:** the WH-L4 is tested and certified at 2% of the lever hoist rated capacity.
- **TWIN PAWL:** double safety; fitted as standard.
- **SAFETY LATCHES:** the WH-L4 lever hoist top and bottom hooks are fitted with heavy duty cast 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.

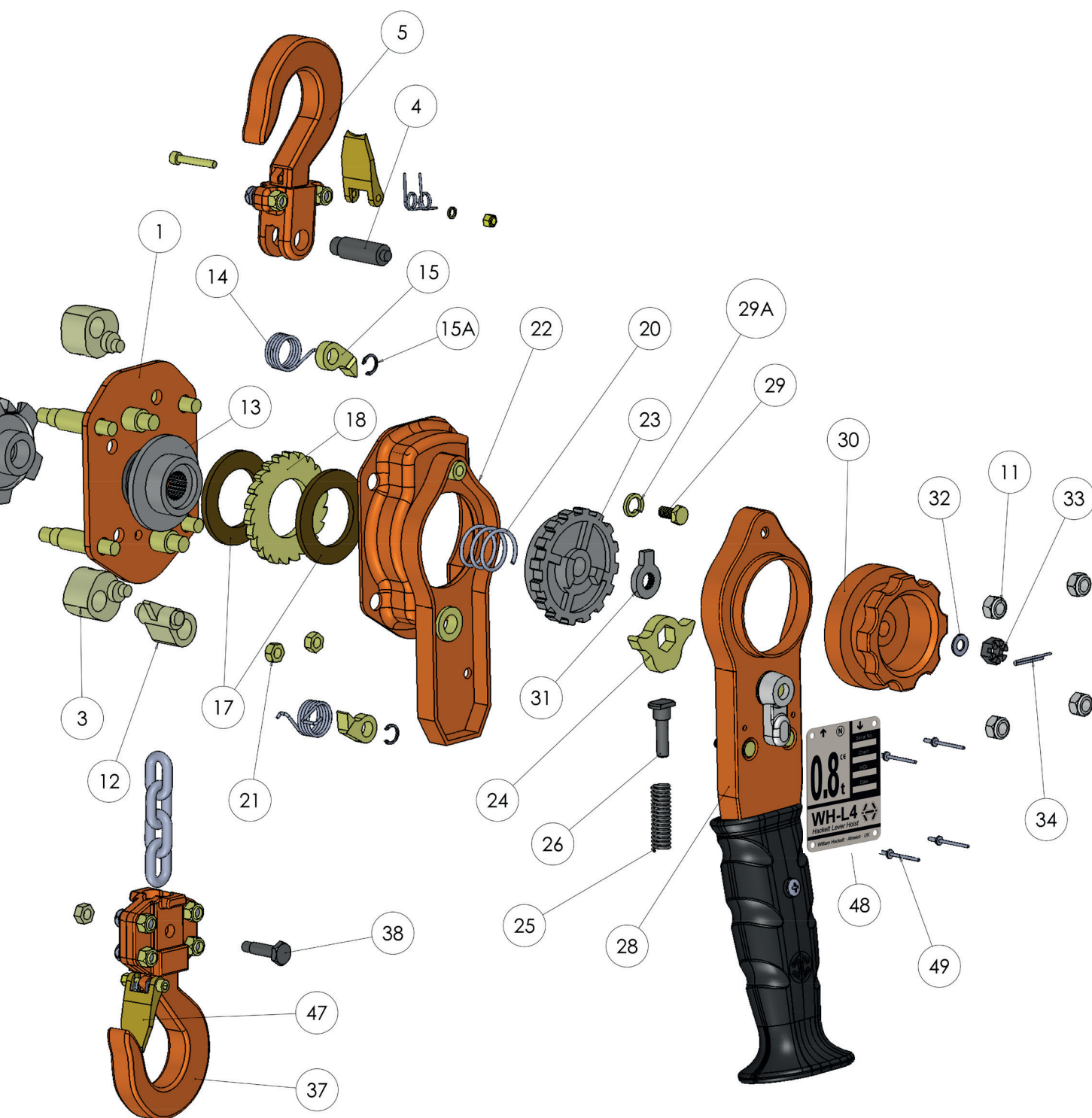


# WH-L4 Lever Hoist

## 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



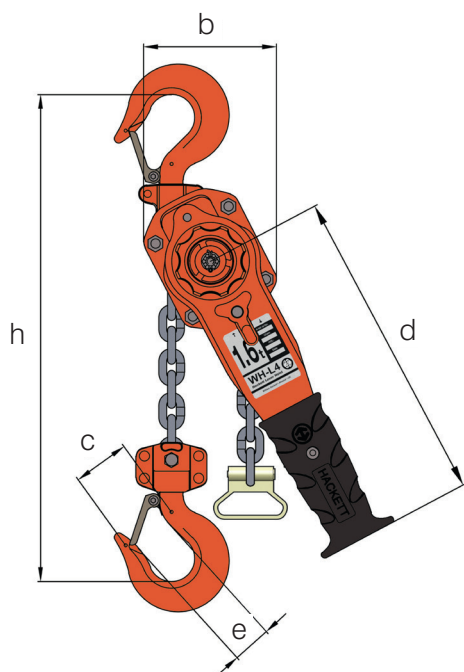




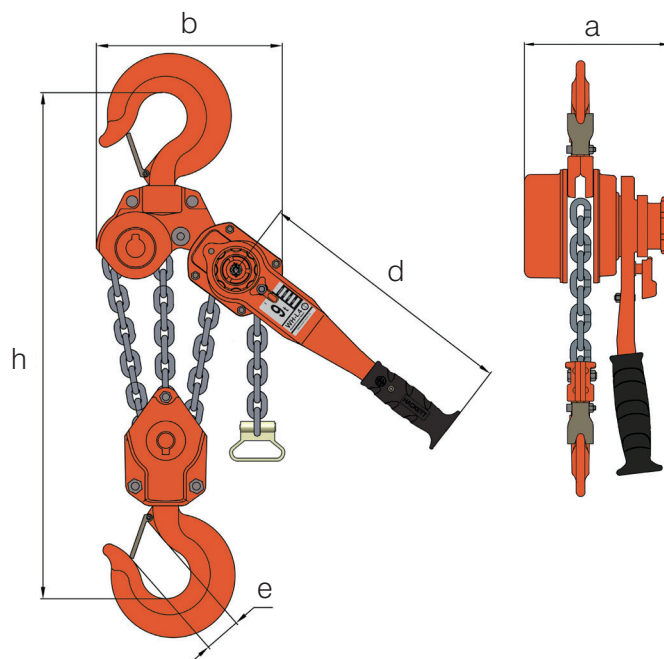
# WH-L4 Lever Hoist

## 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



## CP-C4 CHAIN HOIST





## CP-C4 Chain Hoist





# 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 + A1:2009**

**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

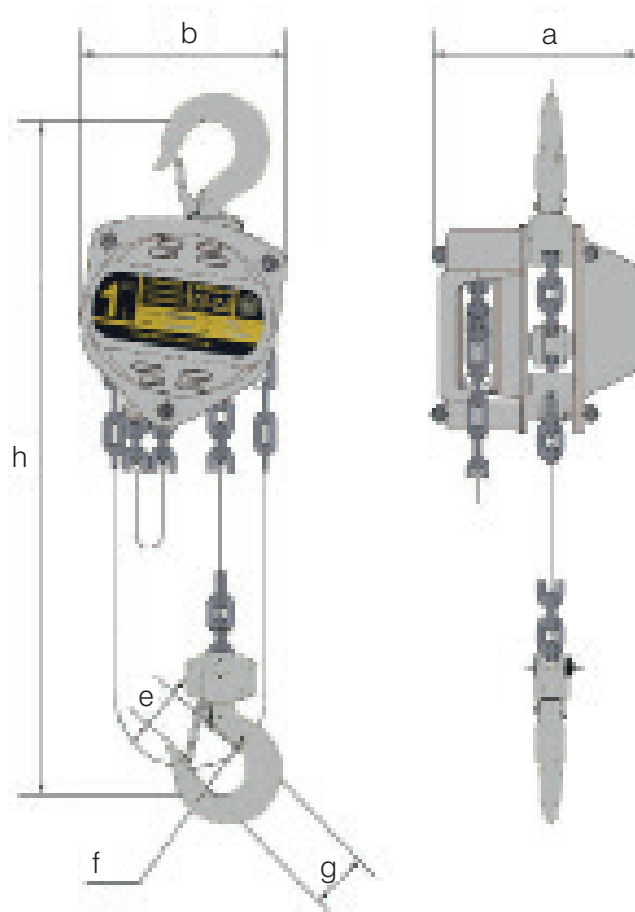
The William Hackett CP-C4 chain hoist has been fully tried and tested to include:

- 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

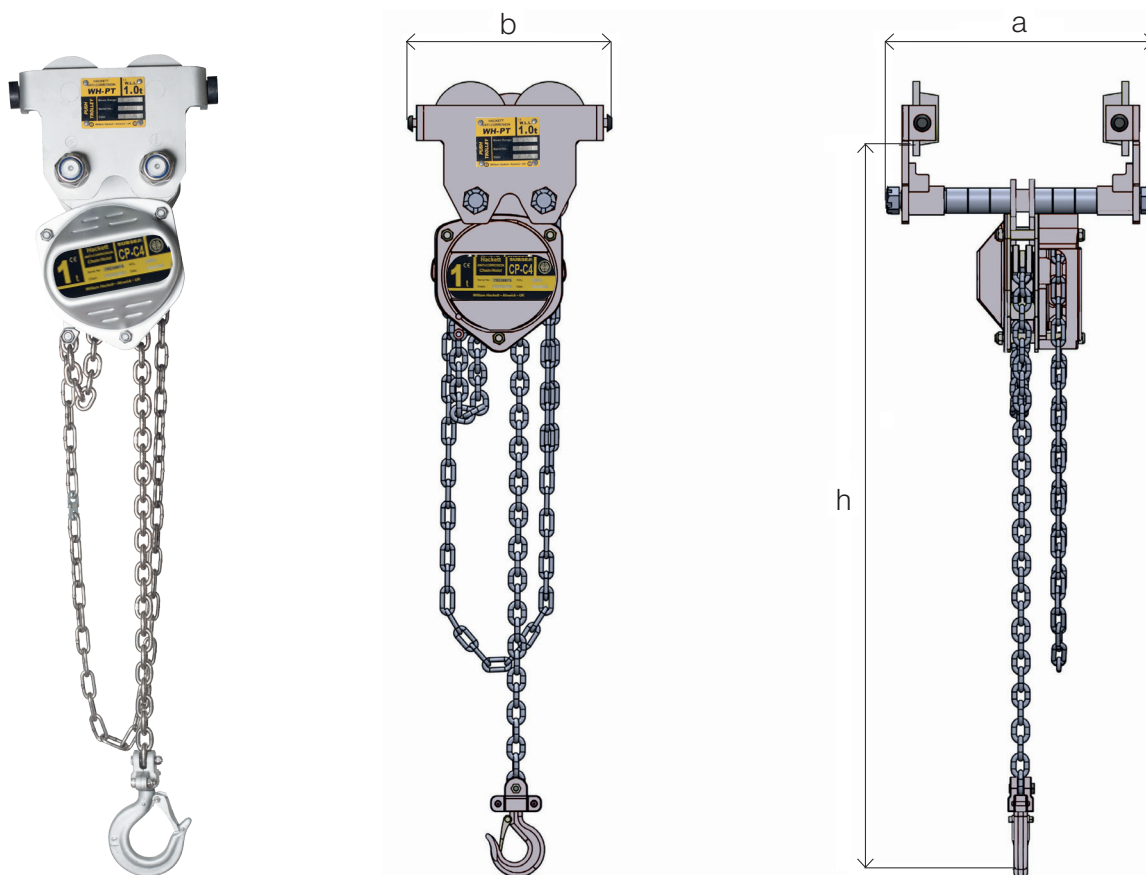


Part Code	WLL tonnes	No of Falls	Load Chain Size mm	Stand. Lift m	a mm	b mm	e mm	f mm	g mm	h mm	Mass Kg	Extra Weight per Mtr (Kg)
022.050.CP	0.50	1	5.0 x 15	3	125	130	27.5	32	37	280	7.8	01.38
022.100.CP	1.00	1	6.0 x 18	3	134	155	31.5	40	44	306	11.1	1.62
022.200.CP	2.00	1	8.0 x 24	3	157	185	36.5	46	52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

# CP-C4 Combination Chain Hoists

## 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 + A1:2009.



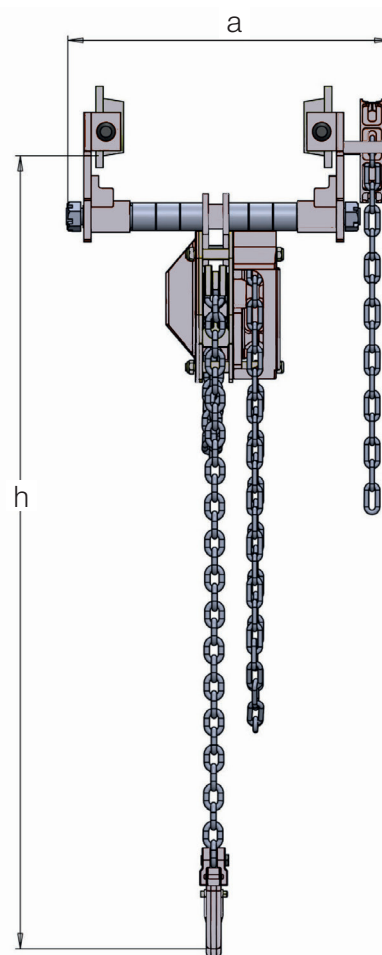
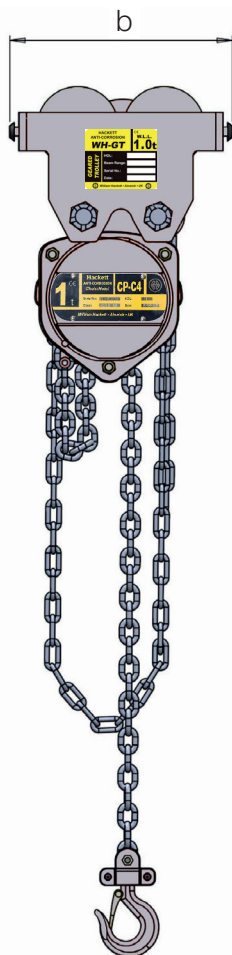
Part Code	WLL tonnes	No. of Falls	Beam Range 1 mm	Beam Range 2 mm	a max mm	b mm	h mm	Mass kg Range 1
066.050.CP	0.50	1	50 - 203	-	294	190	295	15.00
066.100.CP	1.00	1	64 - 203	64 - 305	311	206	305	22.00
066.200.CP	2.00	1	88 - 203	88 - 305	324	246	437	34.00



# CP-C4 Combination Chain Hoists

## 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 + A1:2009.



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



# SS-C4 OFFSHORE CHAIN HOIST





## SS-C4 Offshore Chain Hoist





# 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 + A1:2009**

**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

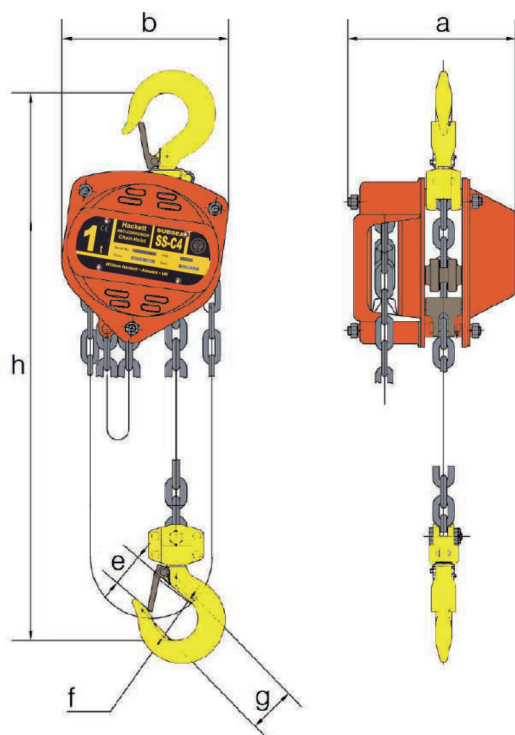
The William Hackett SS-C4 offshore chain hoists have been fully tried and tested to include:

- 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

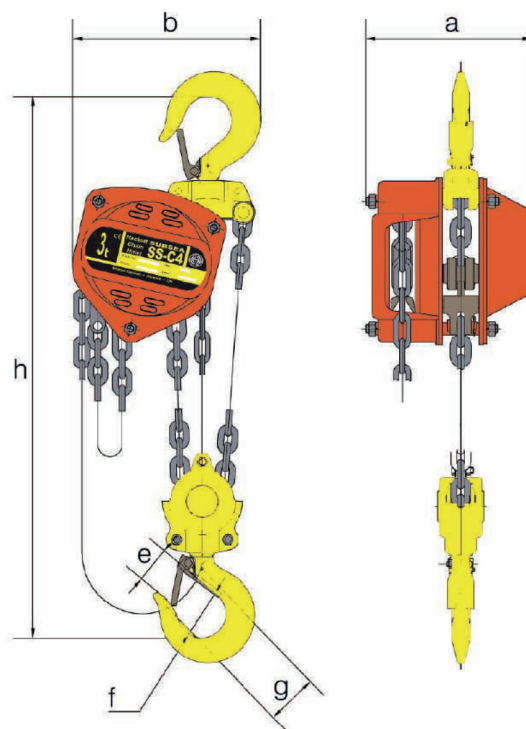
# SS-C4 Offshore Chain Hoist

## Specifications and Dimensions

### Single Fall



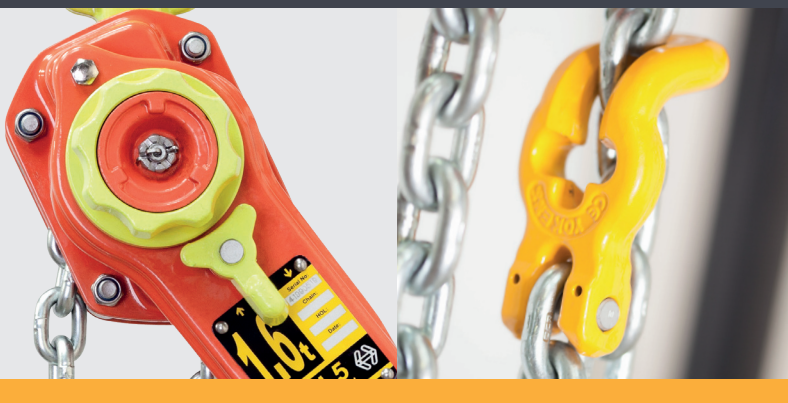
### Multi Fall



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



## SS-L5 OFFSHORE LEVER HOIST



**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 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 + A1: 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 contaminants to the internal mechanism and brake surfaces.

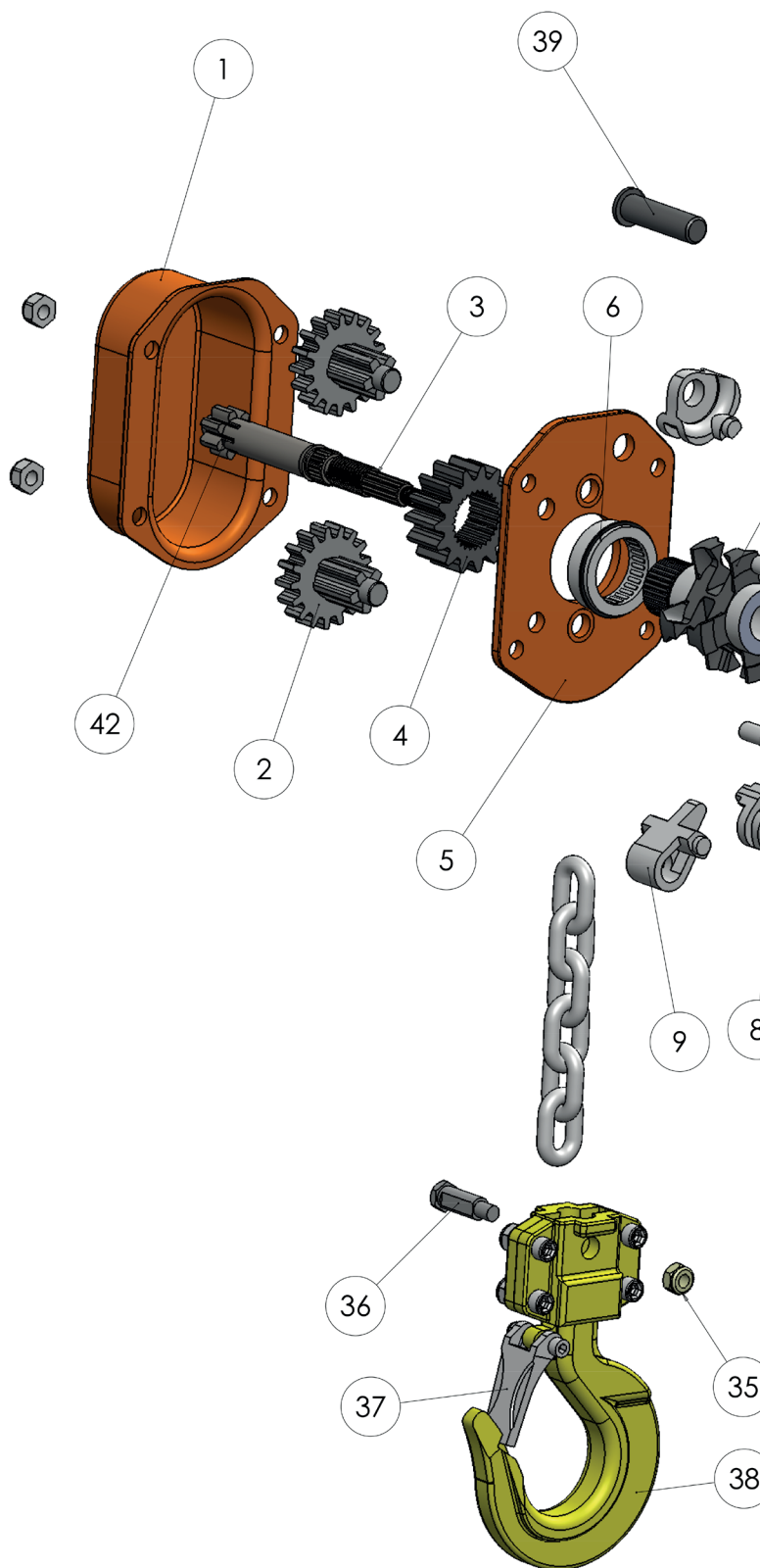
- **STAINLESS STEEL PAWL SPRINGS:** secured internally to reduce risk of damage.
- **STAINLESS STEEL FIXINGS:** all internal springs are stainless steel, circlips securing the pawls onto the pawl stands, stainless steel nyloc nuts and socket head cap screws are used to secure all hook housings.
- **SINTERED/FUSED 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.



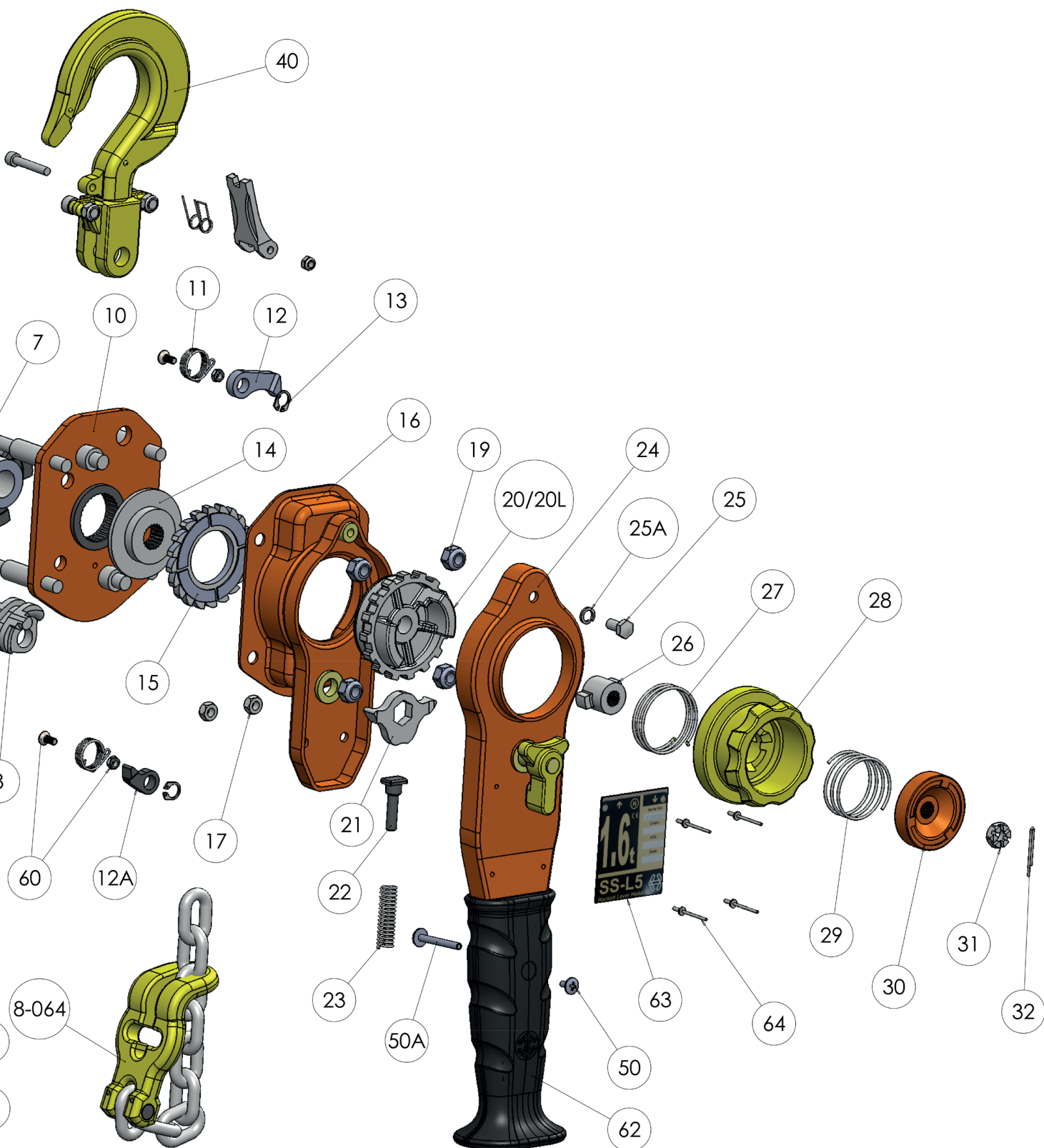
# SS-L5 Offshore Lever Hoist

## 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



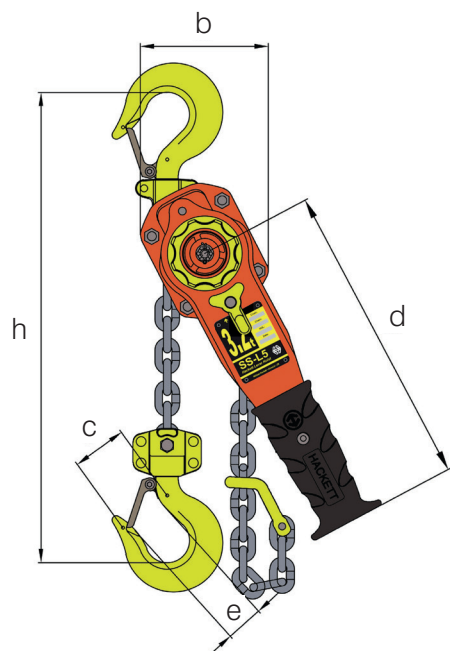




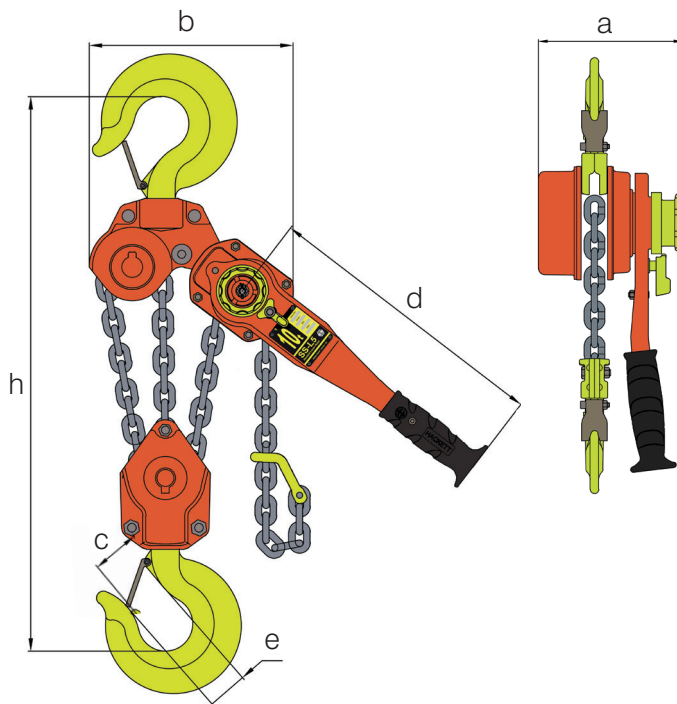
# SS-L5 Offshore Lever Hoist

## 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



*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

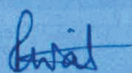
#### Full Acceptance

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.

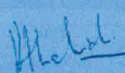
Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Reviewed by:

Authorised by:



Rebecca Wait  
Product Acceptance Co-ordinator



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:

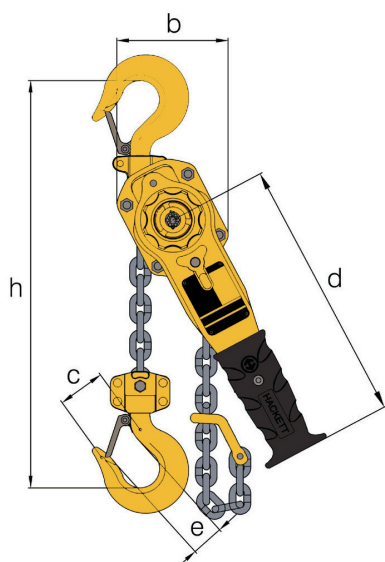
- **THE RL5 "IRONMAN":** can be fitted with either a clevis shackle or omega link eradicating the need for the current connecting link between the clamp and the hoist. The whole system will be certified as one single piece of equipment reducing time and cost when it comes to the inspection and re-certification 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.



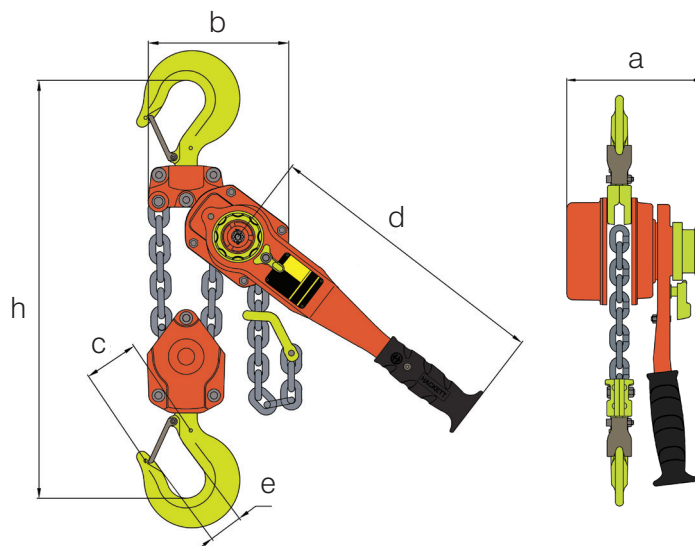
# Overhead Line and Rail Industry Lever Hoist

## 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

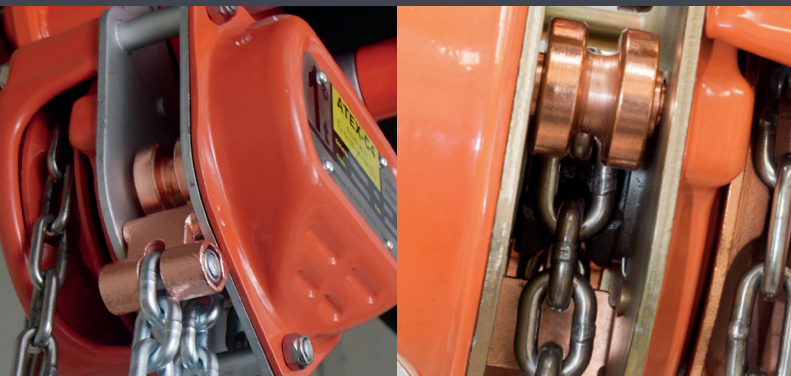




## *ATEX-C4 Chain Hoist*

Ex II 2G c IIC T4

Ex II c IIIC T135°C





## 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 + A1:2009**

**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

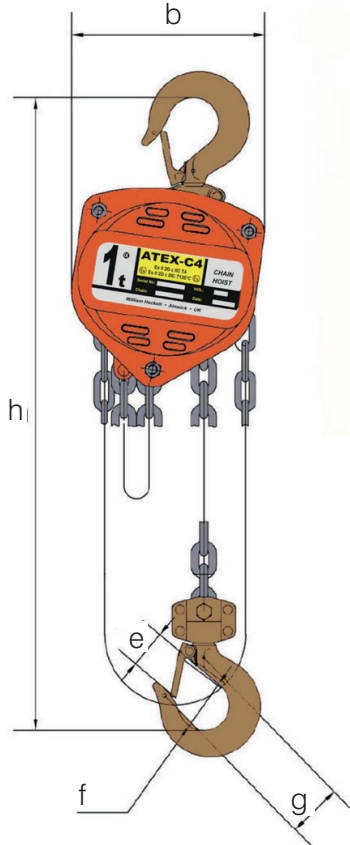




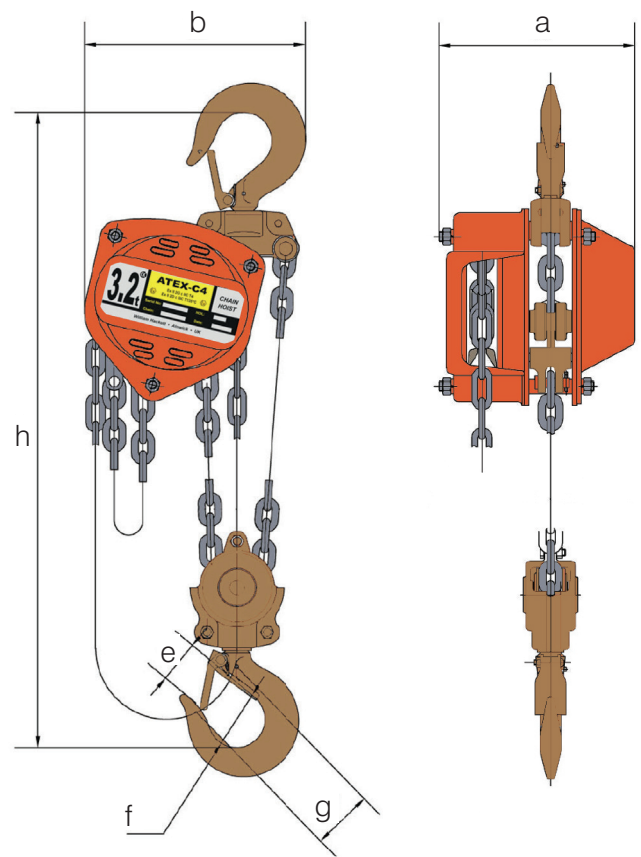
# ATEX-C4 Chain Hoist

## 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 Combination Chain Hoists

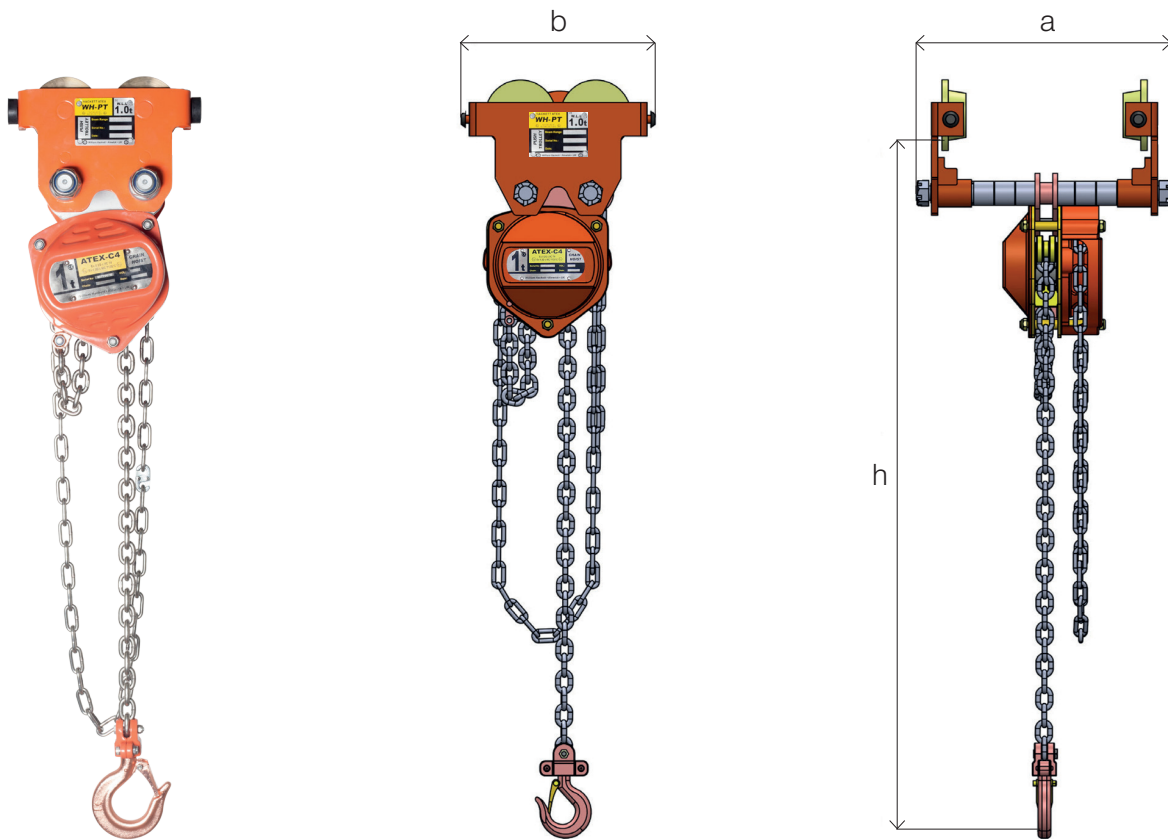
## ATEX-C4 Combined Chain Hoist and Push Trolley

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 + A1:2009.

- 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 Combination Chain Hoists

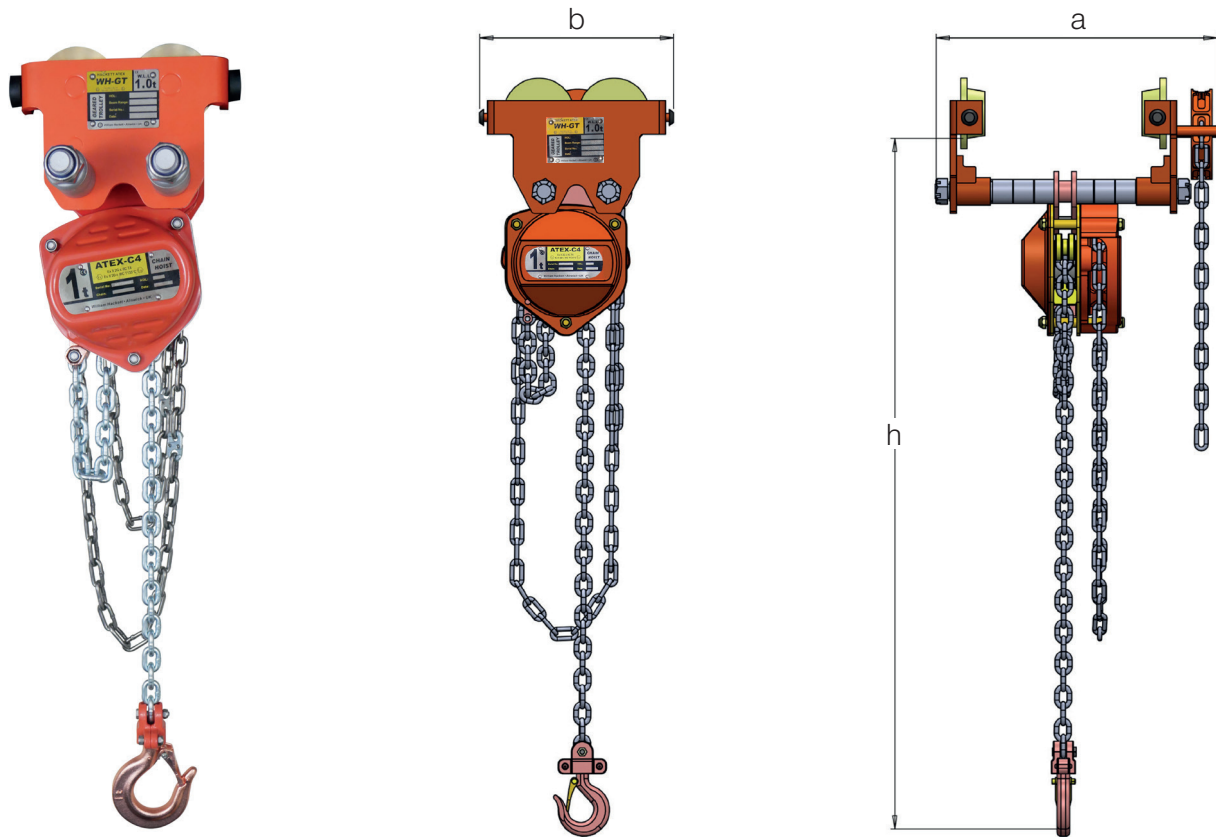
## ATEX-C4 Combined Chain Hoist and Geared Trolley

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 + A1:2009.

- 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





## *ATEX-L4 Lever Hoist*

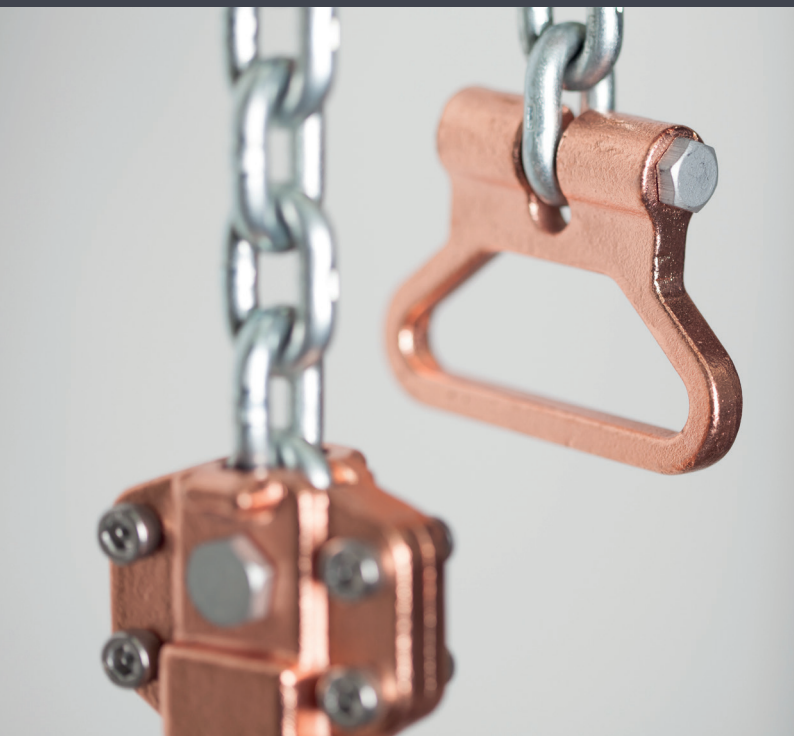
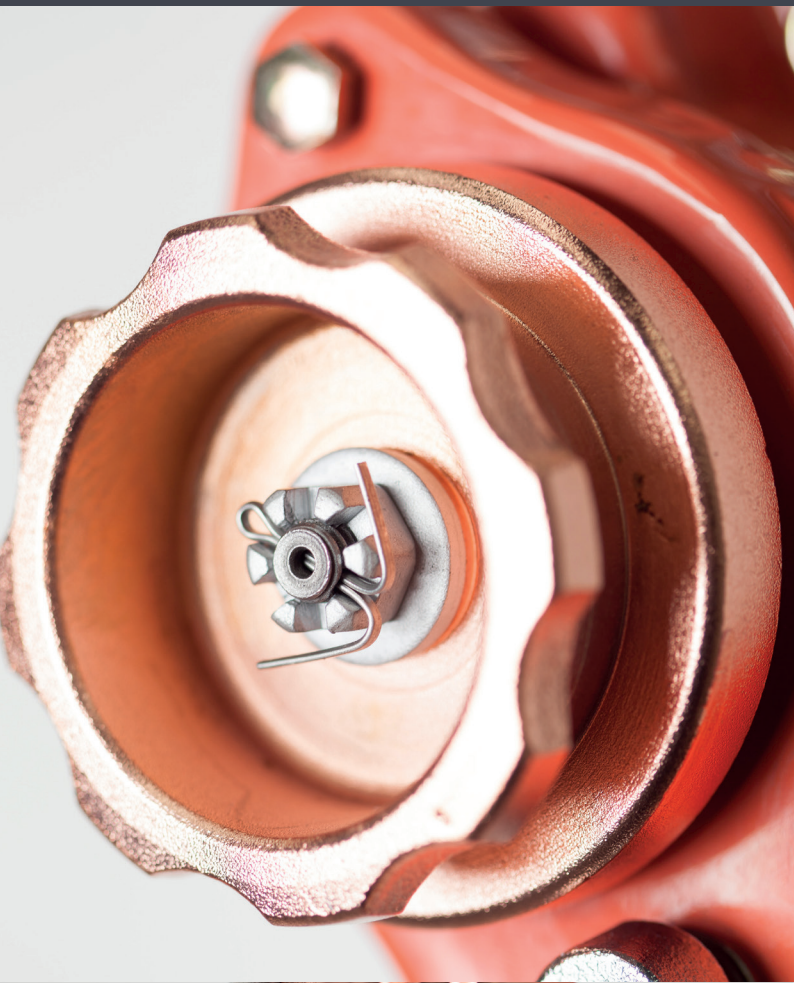
Ex II 2G c IIC T4

Ex II c IIIC T135°C





## **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 + A1:2009

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:

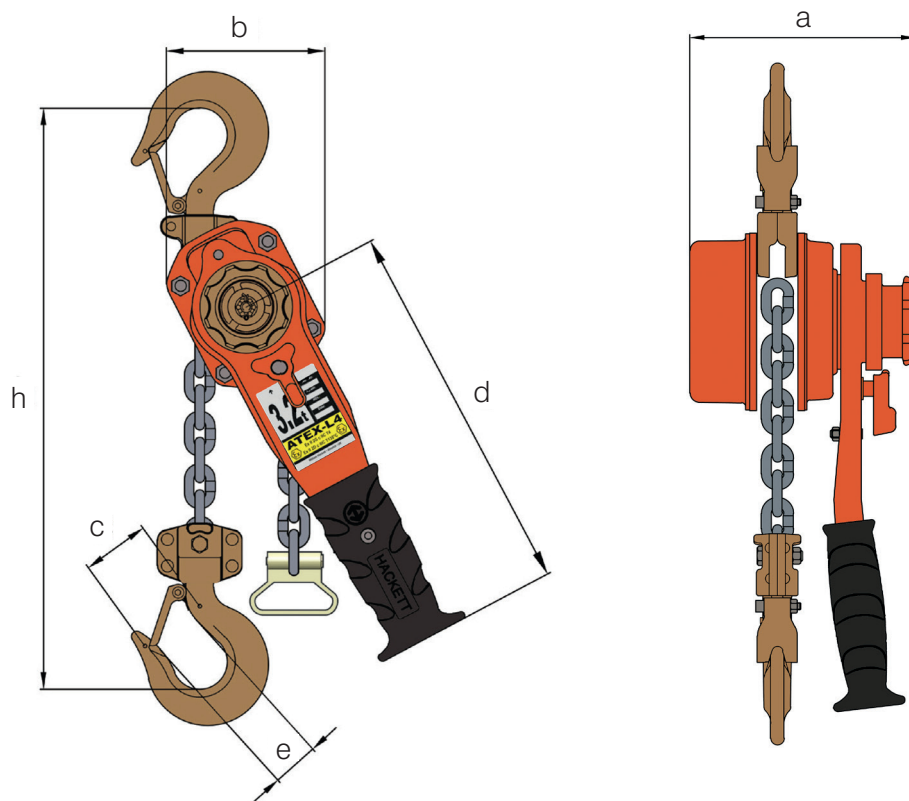
- **CORROSION PROTECTED:** specific internal components corrosion protected
- **COPPER PLATED** parts include top and bottom hook assemblies, loadchain guides, grip rings and chain stripper
- **LOADCHAIN:** supplied with EN818-7 zinc plated loadchain as standard with an option for stainless steel Grade 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



## TROLLEYS



# WH-PT Push Trolley

## WH-PT Push Trolley

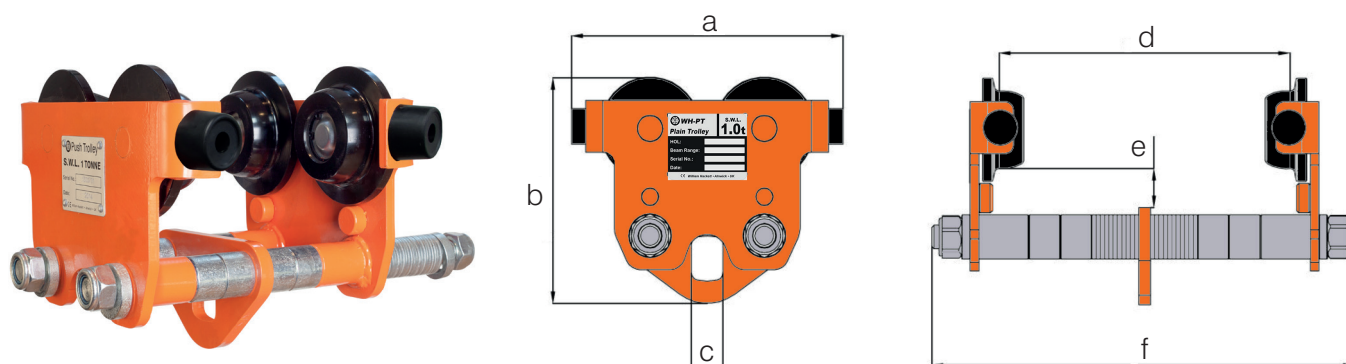
The William Hackett WH-PT Push Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + A1:2009.

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

## 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 + A1:2009.

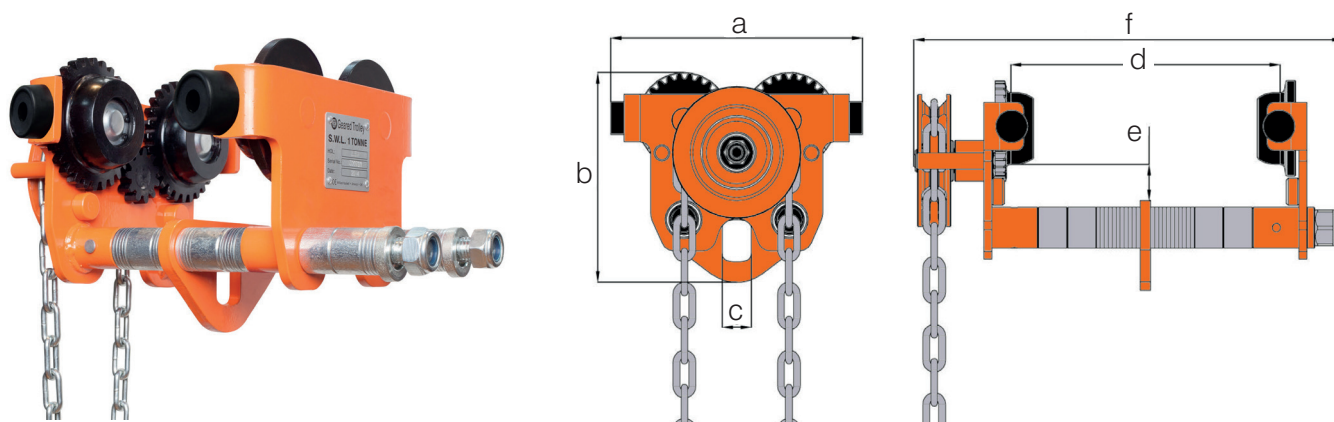
This high quality trolley range is precision engineered in W.L.L. capacities from 500 kg to 10 tonnes.

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

## WH-PT Corrosion Protected Push Trolley

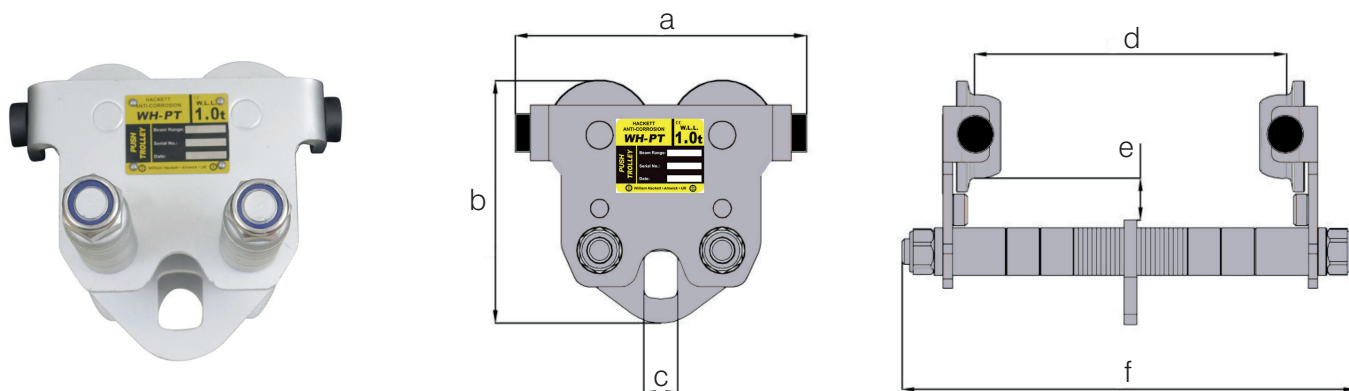
The William Hackett WH-PT Corrosion Protected Push Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + A1:2009.

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

## 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 + A1:2009.

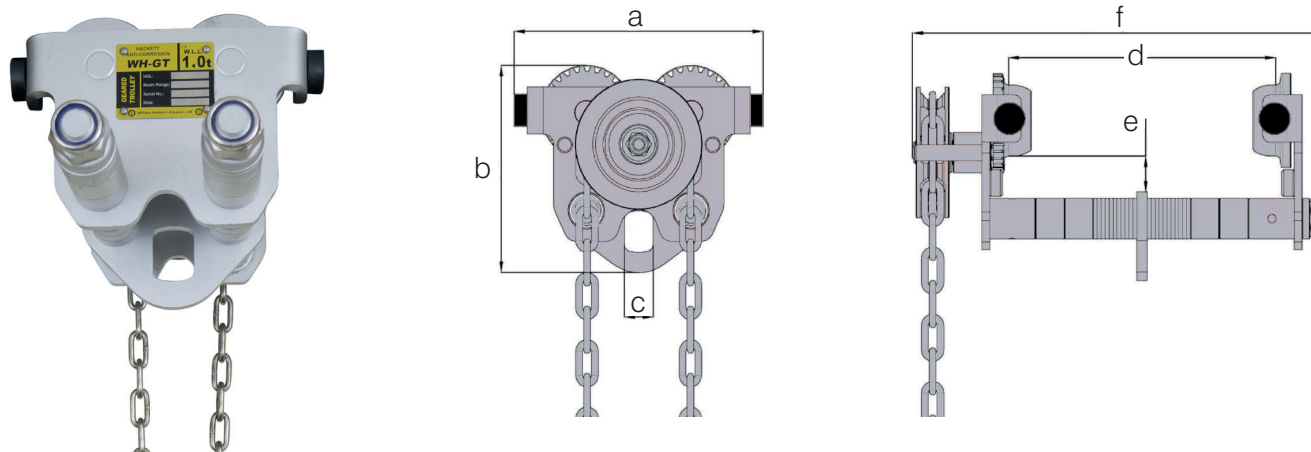
This high quality trolley range is precision engineered in W.L.L. capacities from 500 kg to 5 tonnes.

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

## WH-PT ATEX Push Trolley

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

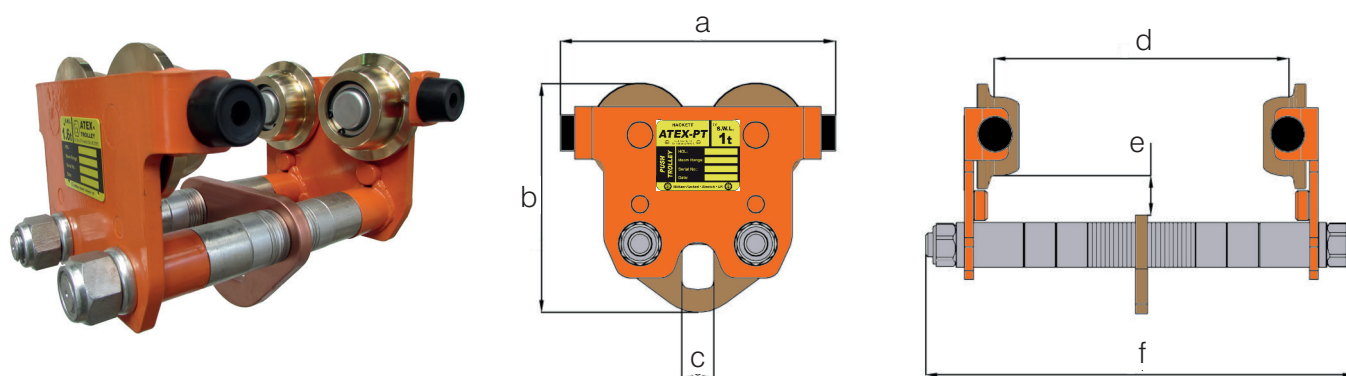
The William Hackett ATEX Push Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + A1:2009.

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



# WH-GT ATEX Geared Trolley

## 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 + A1:2009.

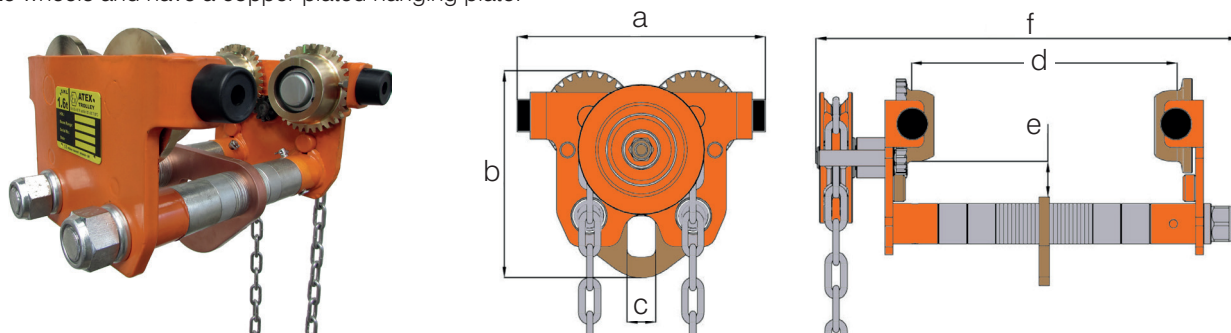
This high quality trolley range is precision engineered in W.L.L. capacities from 500 kg to 2 tonnes. Other sizes are available upon request.

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



# WH-AT Adjustable Push Trolley

## WH-AT Adjustable Push Trolley

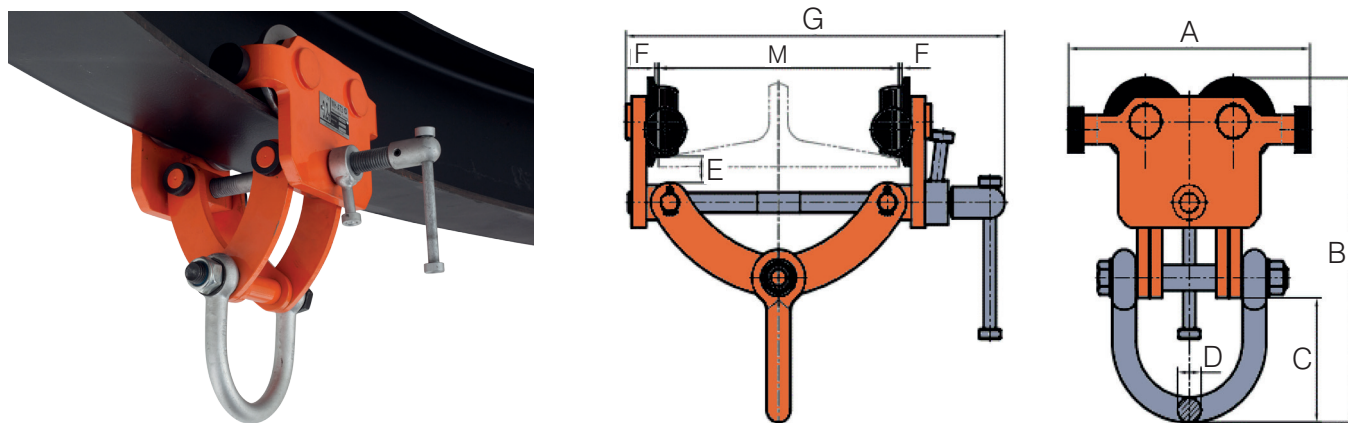
Manufactured in accordance with BS EN13155: 2003 + A2: 2009 - Cranes - Safety – Non Fixed Load Lifting Attachments.

The William Hackett WH-AT Adjustable Push Trolleys meet and exceed the requirements of the following international standards: British Standard BS EN 13157:2004 + A1:2009.

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.

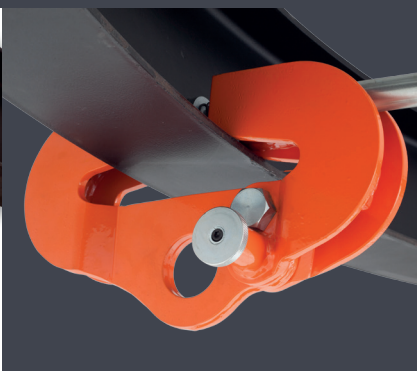


Part Code	WLL tonnes	Min. Radius of Curve m	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Beam Width M mm	Mass kg
014.200	2.00	0.7	204	276 - 322	100	20	21	2.5	320	76 - 203	8.10
014.320	3.20	1.1	246	334 - 374	111	20	25	2.5	330	76 - 203	14.25
014.600	6.00	1.4	286	384 - 463	124	25	33	3.0	454	100 - 305	27.40





## BEAM CLAMPS



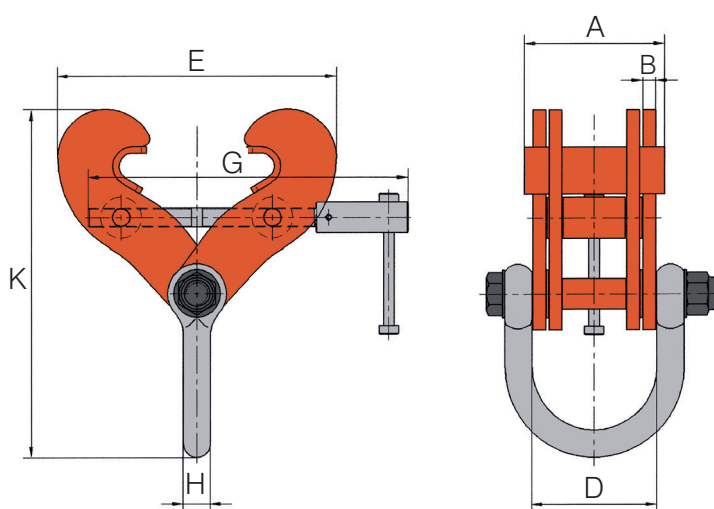
# WH-BC Fixed Jaw Super Clamp

## 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

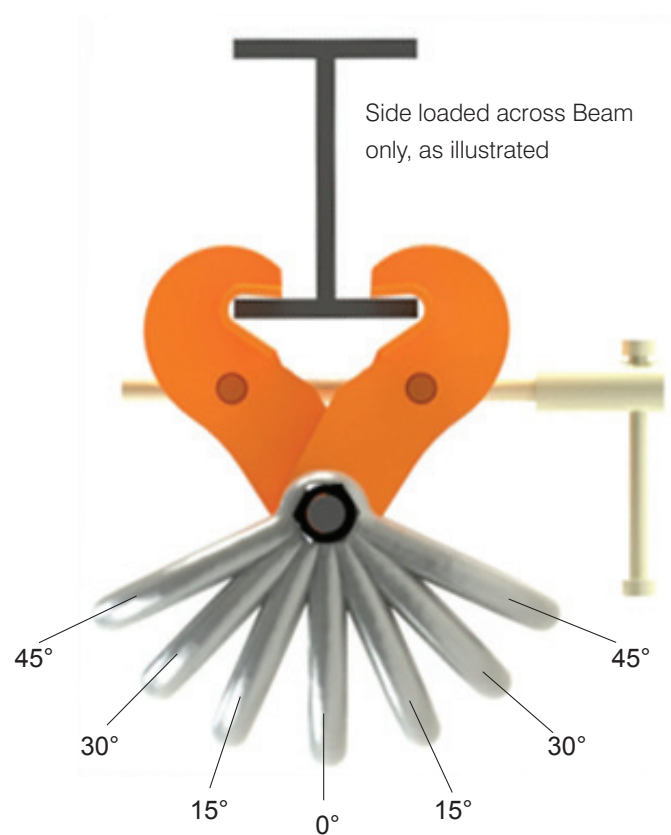
The working load limits below and derations have been established specifically for most William Hackett clamps and only apply in overhead beam attachment i.e: DO NOT apply if clamps are to be used for lifting beams.

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

## 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.

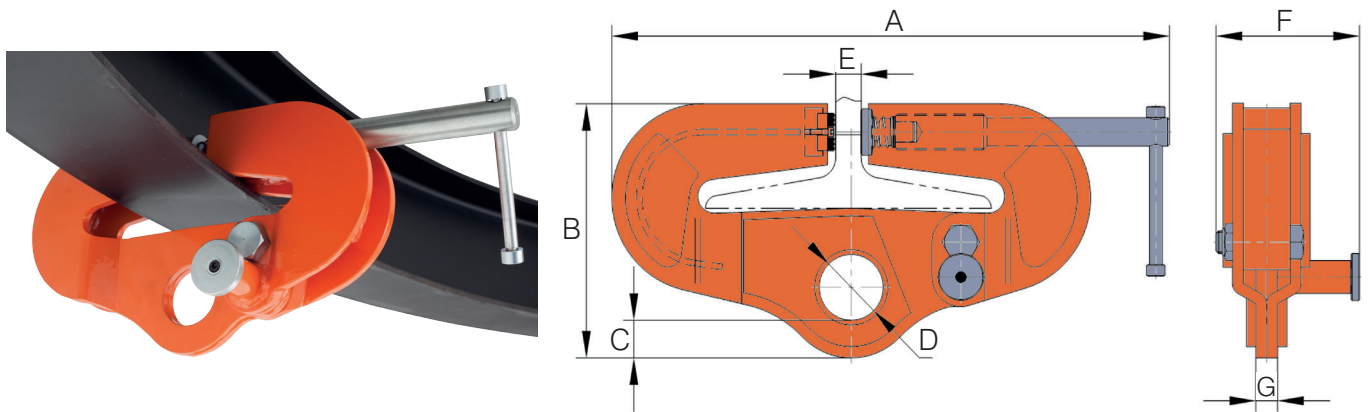
It can be **loaded at any angle** and eliminates the use of spreader beams in various lifting operations.

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

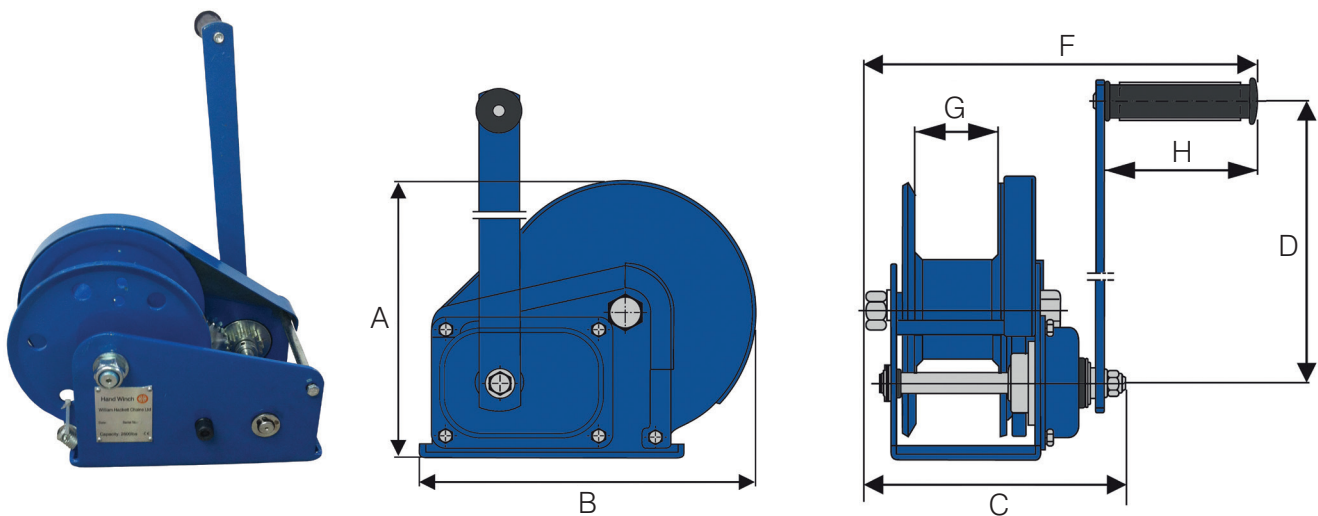
## Hand Winch

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

# Terms and Conditions

## 1. DEFINITIONS & INTERPRETATION

### 1.1 In these conditions:

**"Buyer"** means the person, firm or company who purchases Goods from the Company.

**"Company"** shall mean either William Hackett Chain Products Limited (a company registered in England & Wales under number 09679024 or William Hackett Lifting Products Limited (a company registered in England & Wales under number 09679580 or both those companies as may be required pursuant to the terms of a Contract, and notwithstanding that each of those companies use the brand name of "William Hackett").

**"Conditions"** means the terms and conditions applied by the Company for the conduct of its business and sale of Goods and as recorded herein or otherwise amended and for the time being in force or otherwise as may be amended in accordance with Condition 2.3

**"Contract"** means any contract between the Company and the Buyer for the sale and purchase of Goods incorporating these Conditions or otherwise such terms as may have been agreed between the parties and recorded in writing.

**"Delivery Point"** means the place specified by the Buyer or the Company where delivery or collection of Goods is to be made pursuant to condition 4 herein.

**"Goods"** means any goods and/or services (including any part or parts of them), which the Company provides or supplies to the Buyer in accordance with a Contract.

- 1.2 A reference to a law is a reference to it as it is in force for the time being taking account of any amendment, extension, application or re-enactment and includes any subordinate legislation for the time being in force made under it.
- 1.3 Words in the singular include the plural and in the plural include the singular.
- 1.4 A reference to one gender includes a reference to the other gender.
- 1.5 Section and Condition headings do not affect the interpretation of these Conditions.

## 2. APPLICATION OF THESE CONDITIONS

- 2.1 Subject to any variation under Condition 2.3, a Contract shall be on these Conditions to the exclusion of all other terms and conditions (including any terms or conditions which the Buyer purports to apply under any purchase order, confirmation of order, specification or other document).
- 2.2 No terms or conditions endorsed on, delivered with or contained in the Buyer's purchase order, confirmation of order, specification, correspondence or other document shall form part of a Contract simply as a result of such document being referred to in such Contract.
- 2.3 These Conditions apply to all the Company's sales and business transactions, and any variation to these Conditions and any representations about the Goods shall have no effect unless expressly agreed in writing and signed by a director or the secretary of the Company. The Buyer acknowledges that it has not relied on any statement, promise or representation made or given by or on behalf of the Company which is not set out in the Contract. Nothing in this Condition shall exclude or limit the Company's liability for fraudulent misrepresentation.
- 2.4 Each purchase order or acceptance by the Buyer of a quotation issued by the Company for the supply of Goods shall be deemed to be an offer by the Buyer to purchase such Goods subject to these Conditions or otherwise in accordance with a Contract.
- 2.5 Where the Buyer places a purchase order verbally the Company will issue an electronic confirmation of such order and the Buyer shall be bound by the transaction detailed therein. The onus shall be on the Buyer to verify that the information provided by the Company accords with the Buyer's requirements.

## 3. DESCRIPTION OF GOODS AND INSTRUCTIONS FOR USE

- 3.1 Subject to Condition 3.3, the description of Goods shall be as set out in the Company's published catalogue or other literature for the time being in force, quotation or acknowledgement of order.
- 3.2 All samples, drawings, descriptive matter, specifications and advertising issued by the Company and any descriptions or illustrations contained in the Company's catalogues or brochures are issued or published for the sole purpose of giving an approximate idea of the Goods described in them. Such samples or other information shall not form part of a Contract and unless otherwise agreed any supply of Goods is not a sale by sample.
- 3.3 In accordance with its statutory obligations the Company shall provide instructions for use, periodic inspection, maintenance and disposal of Goods. Such information may be delivered in hard copy together with Goods and / or may be made available in electronic format issued by e-mail or as a download option from its website. The Company does not warrant the integrity or accuracy of product design, performance, use, or periodic inspection or maintenance information provided by its suppliers or other third parties.
- 3.4 Where the Buyer intends to incorporate Goods supplied by the Company into a product or system to be assembled or manufactured by the Buyer or customers of the Buyer, it shall be the responsibility of the Buyer to determine the suitability of such Goods for the intended purpose.

## 4. FREE SAMPLES

- 4.1 Where the Company issues samples of Goods free of charge, such Goods shall be for inspection only and not for use or re-sale by the Buyer, and such samples shall remain the property of and be returned to the Company upon demand.
- 4.2 Where the Company provides Goods on a sale or return basis, such Goods shall not be used or re-sold by the Buyer and shall remain the property of the Company until such time as the Buyer has accepted and made payment for the Goods or otherwise confirmed that it wishes to purchase the Goods under its credit arrangements with the Company.

## 5. COLLECTION AND DELIVERY

- 5.1 Unless otherwise agreed in writing by the Company, delivery of Goods shall take place when such Goods are collected by or delivered to a place specified by order of the Buyer.
- 5.2 Unless otherwise agreed in writing by the Company, any dates specified by the Company for delivery of the Goods are intended to be an estimate and time for delivery shall not be made of the essence by notice. If no dates are so specified, delivery shall be within a reasonable time.
- 5.3 Where no delivery date is specified by the Buyer and agreed to in writing by the Company, subject to the other provisions of these Conditions the Company shall not be liable for any direct, indirect or consequential loss (all three of which terms include, without limitation, pure economic loss, loss of profits, loss of business, depletion of goodwill and similar loss), costs, damages, charges or expenses caused directly or indirectly by any delay in the delivery of Goods (even if caused by the Company's negligence), nor shall any delay entitle the Buyer to terminate or rescind a Contract unless such delay exceeds 60 days.
- 5.4 The Buyer shall provide at the delivery point and at its expense adequate and appropriate equipment and competent manual labour for the safe handling and unloading Goods.
- 5.5 The Company may deliver Goods by separate instalments. Each separate instalment shall be invoiced and paid for in accordance with the provisions of a Contract.
- 5.6 Subject to Conditions 12 and 13, each instalment shall be a separate Contract and no cancellation or termination of any one Contract relating to an instalment shall entitle the Buyer to repudiate or cancel any other Contract or instalment.

## 6. NON-DELIVERY

- 6.1 The quantity of any consignment of Goods as recorded by the Company on dispatch from the Company's place of business shall be conclusive evidence of the quantity received by the Buyer on delivery unless the Buyer can provide conclusive evidence proving the contrary.
- 6.2 The Company shall not be liable for any non-delivery of Goods (even if caused by the Company's negligence) unless the Buyer gives written notice to the Company of the non-delivery within 3 days of the date when the Goods would in the ordinary course of events have been received.
- 6.3 Unless a Contract requires otherwise, Goods shall be delivered by carriers engaged by the Company, however, the Company shall not warrant the performance of any carrier so employed. Without prejudice to the provisions of Conditions 6.2, 6.4 and 6.5, in the event of non-delivery of Goods within a reasonable time or at a time specified in a Contract, and if so required by the Buyer, the Company shall arrange recovery of and re-stock such Goods.
- 6.4 The Company's liability for non-delivery of Goods within a reasonable time or at a time specified in a Contract shall be limited to replacing such Goods within a reasonable time or issuing a credit note at the pro rata Contract price or rate against any invoice raised for the Goods.
- 6.5 The Buyer's entitlement to compensation for non-delivery of Goods within a reasonable time or at a time specified in a Contract shall be limited to the value of any compensation which the carrier is obliged to provide pursuant to its standard terms and conditions of trading.
- 6.6 If the Company incurs a loss or additional expense as a consequence of any abortive delivery, re-stocking and storage, or re-delivery of Goods due to the unwillingness or inability of the Buyer to accept delivery of such Goods, the Company shall be entitled to recover such loss or expense from the Buyer.

## 7. RISK / TITLE

- 7.1 Goods shall be at the risk of the Buyer from the time of delivery or collection.
- 7.2 Ownership of Goods shall not pass to the Buyer until the Company has received in full (in cash or cleared funds) all sums due to it in respect of such Goods.
- 7.3 Until ownership of Goods has passed to the Buyer, the Buyer shall:
  - (a) hold such Goods on a fiduciary basis as the Company's bailee;
  - (b) store such Goods (at no cost to the Company) separately from all other goods of the Buyer or any third party in such a way that they remain readily identifiable as the Company's property;
  - (c) not destroy, deface or obscure any identifying mark or packaging on or relating to such Goods; and
  - (d) maintain such Goods in satisfactory condition and keep them insured on the Company's behalf for their full value and replacement cost against all risks to the reasonable satisfaction of the Company. On request the Buyer shall produce the policy or other evidence of insurance to the Company.
- 7.4 The Buyer's right to possession of Goods shall terminate immediately if:
  - (a) the Buyer has a bankruptcy order made against him or makes an arrangement or composition with his creditors, or otherwise takes the benefit of any statutory provision for the time being in force for the relief of insolvent debtors, or (being a body corporate) convenes a meeting of creditors (whether formal or informal), or enters into liquidation (whether voluntary or compulsory) except a solvent voluntary liquidation for the purpose only of reconstruction or amalgamation, or has a receiver and/or manager, administrator or administrative receiver appointed of its undertaking or any part thereof, or documents are filed with the court for the appointment of an administrator of the Buyer or notice of intention to appoint an administrator is given by the Buyer or its directors or by a qualifying floating charge holder (as defined in paragraph 14 of Schedule B1 to the Insolvency Act 1986), or a resolution is passed or a petition presented to any court for the winding up of the Buyer or for the granting of an administration order in respect of the Buyer, or any proceedings are commenced relating to the insolvency or possible insolvency of the Buyer; or
  - (b) the Buyer suffers or allows any execution, whether legal or equitable, to be levied on his/its property or obtained against him it, or fails to observe or perform any of his/its obligations under a Contract or any other agreement between the Company and the Buyer, or is unable to pay its debts within the meaning of section 123 of the Insolvency Act 1986 or the Buyer ceases to trade; or
  - (c) the Buyer encumbers or in any way charges any of such Goods.
- 7.5 The Company shall be entitled to recover payment for Goods notwithstanding that ownership of any of such Goods has not passed from the Company to the Buyer.
- 7.6 The Buyer grants the Company, its agents and employees an irrevocable licence at any time to enter any premises where Goods are or may be stored in order to inspect them, or, where the Buyer's right to possession has terminated, to recover them.
- 7.7 Where the Company is unable to determine whether any goods are Goods in respect of which the Buyer's right to possession has terminated, the Buyer shall be deemed to have sold all Goods of the kind sold by the Company to the Buyer in the order in which they were invoiced to the Buyer.
- 7.8 On termination of the Contract, howsoever caused, the Company's (but not the Buyer's) rights contained in this Condition 7 shall remain in effect.

## 8. PRICE

- 8.1 Subject to Condition 8.2 and unless it shall be a term of a Contract or otherwise agreed by the Company in writing, the price for Goods:
  - (a) shall be the price set out in the Company's price list published for the time being in force; and
  - (b) be exclusive of any value added tax and all costs or charges in relation to carriage, handling at point of delivery, export and import duties, and insurance, all of which amounts the Buyer shall pay in addition to the published price when it is due to pay for such Goods.
- 8.2 The Company shall be entitled to alter and increase the price of Goods to be supplied under a Contract where:
  - (a) the cost of its raw materials or suppliers charges increase beyond the Company's control; or
  - (b) the cost of delivery or charges levied by carriers increase beyond the Company's control; or
  - (c) any increase in export or import duties occur; or
  - (d) the Buyer reduces the scope or quantity of the Goods it has agreed to purchase under a Contract.

## 9. PAYMENT

- 9.1 Unless different payment terms have been agreed pursuant to a Contract, the payment terms under this Condition 9. shall apply.
- 9.2 Subject to Condition 9.6, payment of the price for Goods is due in pounds sterling or US dollars or euros (as cited in any Contract or quotation issued by the Company), and shall be payable:
  - (a) where a credit facility has been granted by the Company, within 30 days from the end of the month in which such Goods are invoiced; or
  - (b) by pre-payment before collection by or delivery to the Buyer.
- 9.3 Goods may be invoiced at time of collection or dispatch for delivery, or at any time after such events.
- 9.4 Time for payment shall be of the essence.
- 9.5 The Buyer shall:
  - (a) notify the Company of any errors in the charges made by the Company or other queries on invoices issued by the Company to the Buyer as soon as reasonably practicable but in any event prior to the date by which payment is due to or expected by the Company; and
  - (b) make payment to the Company of such sum as may be due under any invoice issued by the



- Company subject to the Buyer lawfully withholding only that sum which relates to any product or service provided by the Company which the Buyer (acting properly and reasonably in the circumstances), claims is not in accordance with a Contract.
- 9.6 No payment shall be deemed to have been received until the Company or its bank has received cleared funds.
- 9.7 All payments payable to the Company under a Contract shall become due immediately on its termination despite any other provision.
- 9.8 Subject to Condition 9.5, the Buyer shall make all payments due under a Contract in full without any deduction whether by way of set-off, counterclaim, discount, abatement or otherwise unless the Buyer has a valid court order requiring an amount equal to such deduction to be paid by the Company to the Buyer.
- 9.9 If the Buyer fails to pay for Goods within 30 days from the end of the month in which Goods are invoiced, the Company may suspend delivery of any Goods ordered by the Buyer under a Contract or any other agreement between the Company and the Buyer.

#### 10. QUALITY

- 10.1 Where the Company is not the manufacturer of Goods supplied to the Buyer, the Company shall use reasonable endeavour to transfer to the Buyer the benefit of any warranty or guarantee given to the Company or provided by the original supplier or manufacturer of such Goods.
- 10.2 Without prejudice to any statutory rights, and subject to condition 3.3 and the Buyer's compliance with any instructions for use, handling, storage, periodic inspection and maintenance of the Goods and the other provisions of these Conditions, the Company warrants that on delivery Goods shall be in accordance with the product and the performance specifications published or distributed by the Company, of merchantable quality, and for a period of twelve months from the date of delivery Goods shall:
- (a) be of satisfactory quality within the meaning of the Sale of Goods Act 1979; and
  - (b) be reasonably fit for any specified purpose for which such Goods are being sold and purchased provided always that the Buyer had made known that purpose to the Company in writing and the Company has confirmed in writing that it is reasonable for the Buyer to rely on the capability of such Goods based upon the skill and judgement of the Company.
- 10.3 The Company shall not be liable for a breach of any of the warranties in Condition 10.2 unless:
- (a) the Buyer gives written notice of the defect to the Company, and, if the defect is as a result of damage in transit to the carrier, within 7 days of the time when the Buyer discovers or ought to have discovered such defect; and
  - (b) the Company is given a reasonable opportunity after receiving the notice of examining such Goods.
- 10.4 The Company shall not be liable for a breach of any of the warranties in Condition 10.2 if:
- (a) the Buyer makes any further use of such Goods after giving such notice; or
  - (b) the defect arises because the Buyer failed to comply with any statutory requirements or follow the Company's oral or written instructions or manufacturers' requirements and recommendations as to the storage, installation, commissioning, use, periodic inspection or maintenance of the Goods or (if there are none) good trade practice; or
  - (c) the Buyer alters or repairs such Goods without the written consent of the Company; or
  - (d) the Buyer exceeds the use, performance and other parameters in respect of the Goods set out in the declaration of conformity or manufacturer's certificate issued by the Company.
- 10.5 Subject to Conditions 10.3 and 10.4, if any of the Goods do not conform with any of the warranties in Condition 10.2 the Company shall at its option, repair or replace such Goods (or the defective part) or refund the price of such Goods at the pro rata Contract rate provided that, if the Company so requests, the Buyer shall return the Goods or the part of such Goods which is defective to the Company.
- 10.6 If the Company complies with Condition 10.5 it shall have no further liability for a breach of any of the warranties in Condition 10.2 in respect of such Goods.

#### 11. PRODUCT AND PACKAGING WASTE PROCESSING AND DISPOSAL

- 11.1 The Company and the Buyer shall each be responsible for compliance with any statutory requirements applicable in the country or location to which Goods shall be produced, delivered, stored or used for product and waste packaging, recycling, recovery and disposal.

#### 12. VARIATIONS

- 12.1 The Buyer shall be entitled to amend a purchase order providing such amendment shall be made and accepted by the Company in writing, and subject to the Buyer compensating the Company for any additional cost it may incur or be entitled to charge as a consequence of implementing such variation.
- 12.2 The Company may vary a purchase order if for any reason it is unable to supply Goods provided always that the Company shall have the opportunity to supply alternate Goods of equal quality and capability as the Goods originally ordered by the Buyer.

#### 13. CANCELLATION OF CONTRACTS AND REFUNDS POLICY

- 13.1 Without prejudice to any other provision of these Conditions or any rights available to the parties, the Buyer and the Company shall each have the right to cancel a Contract in whole or in part by giving written notice to the other whereupon all work under such Contract (or the cancelled part) shall be discontinued.
- 13.2 Where a Contract is cancelled by the Buyer, the Buyer shall pay to the Company all reasonable and proportionate costs as it may have incurred in performing such Contract to the point of cancellation, including the value of Goods previously supplied, work done and services performed under the Contract.
- 13.3 Where a Contract is cancelled by the Company by virtue of its inability to provide Goods, the Company shall be entitled to invoke the provisions of Condition 12.2 or otherwise the Company shall be under no obligation to compensate the Buyer for any loss or expense arising out of such cancellation.
- 13.4 Without prejudice to Condition 13.2, if a Buyer wishes to cancel a Contract and return Goods to the Company, the Company may at its discretion accept a return of such Goods and make a refund to the Buyer provided:
- (a) the Goods have not been used, altered or damaged, and are returned to the Company in good condition, within their original packaging and with all associated documentation;
  - (b) the Goods are capable of being resold without modification or can be easily modified so as to be capable of being resold;
  - (c) the Buyer shall arrange and pay for the return carriage and delivery of the Goods to the Company;
  - (d) the Buyer shall pay the delivery charge levied by the Company for the supply of the Goods together with a minimum handling charge calculated as to 20% of the value of the Goods returned by the Buyer and accepted by the Company; and
  - (e) any refund paid to or credited to the Buyer's account with the Company shall have regard to the charges that the Company may levy pursuant to Condition 13.4 (d).

#### 14. LIMITATION OF LIABILITY

- 14.1 The Company's liability for accidental death or accidental personal injury and accidental loss or accidental damage to material property shall be limited to £1,000,000 per claim or series of claims arising out of one event in respect of such loss, and the Buyer shall be responsible for making its own arrangements for the insurance of any excess loss beyond the prescribed limit.
- 14.2 Subject to Conditions 5, 6 and 10, the following provisions of this section 14 set out the entire financial liability of the Company (including any liability for the acts or omissions of its employees, agents and subcontractors) to the Buyer in respect of:
- (a) any breach of these Conditions;
  - (b) any use made or resale by the Buyer of any Goods, or of any product incorporating any of such Goods; and
  - (c) any representation, statement or tortious act or omission including negligence arising under or in connection with a Contract.
- 14.3 All warranties, conditions and other terms implied by statute or common law (save for the conditions implied by section 12 of the Sale of Goods Act 1979) shall, to the fullest extent permitted by law, be excluded from a Contract.
- 14.4 Nothing in these Conditions excludes or limits the liability of the Company:
- (a) for death or personal injury caused by the Company's negligence; or
  - (b) for any matter which it would be illegal for the Company to exclude or attempt to exclude its liability; or
  - (c) for fraud or fraudulent misrepresentation.
- 14.5 Subject to Conditions 14.3 and 14.4, the Company's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation, restitution or otherwise, arising in connection with the performance or contemplated performance of a Contract shall be limited to £1,000,000.

#### 15. INTELLECTUAL PROPERTY

- 15.1 All designs, inventions, patents, know how, new technology, improvements and all similar matters made, designed or developed by or on behalf of the Company pertaining to Goods or other aspects of a Contract shall be the property of the Company or its suppliers as the case may be.
- 15.2 All material, drawings, patterns, gauges, samples, specifications or other technical data prepared by or on behalf of the Company shall be and shall at all times remain the sole property of the Company or its suppliers as the case may be.

#### 16. DATA PROTECTION, COMMUNICATIONS AND PRIVACY RIGHTS

- 16.1 The Company and the Buyer shall each comply with their statutory obligations in relation to the collection, recording, use, processing, storage and retention of data, communications and the privacy rights of the other party and its/their employees, other representatives and business stakeholders.
- 16.2 The Buyer shall ensure the Company is permitted to communicate with its employees, other authorised representatives and business stakeholders as may be necessary to enable the conduct of business between the parties and in connection with any Contract.
- 16.3 Save for their respective compliance with any statutory requirement or lawful entitlement, the Company and the Buyer shall cease to collect, use, process, store or hold any data pertaining to the other party or its employees, other authorised representatives and business stakeholders upon receipt of notification of their withdrawing consent for such purpose.

#### 17. ASSIGNMENT

- 17.1 The Company may assign the Contract or any part of it to any person, firm or company.
- 17.2 The Buyer shall not be entitled to assign the Contract or any part of it without the prior written consent of the Company.

#### 18. FORCE MAJEURE

- 18.1 The Company reserves the right to defer the date of delivery of Goods or to cancel a Contract or reduce the volume of Goods ordered by the Buyer (without liability to the Buyer), if it is prevented from or delayed in the carrying on of its business due to circumstances beyond the reasonable control of the Company including, without limitation, acts of God, governmental actions, war or national emergency, acts of terrorism, protests, riot, civil commotion, fire, explosion, flood, epidemic, lock-outs, strikes or other labour disputes (whether or not relating to either party's workforce), or restraints or delays affecting carriers or inability or delay in obtaining supplies of adequate or suitable materials, provided that, if the event in question continues for a continuous period in excess of 60 days, the Buyer shall be entitled to give notice in writing to the Company to terminate such Contract.

#### 19. GENERAL

- 19.1 Each right or remedy of the Company under a Contract is without prejudice to any other right or remedy of the Company whether under such Contract or not.
- 19.2 If any provision of a Contract is found by any court, tribunal or administrative body of competent jurisdiction to be wholly or partly illegal, invalid, void, voidable, unenforceable or unreasonable it shall to the extent of such illegality, invalidity, voidness, voidability, unenforceability or unreasonableness be deemed severable and the remaining provisions of such Contract and the remainder of such provision shall continue in full force and effect.
- 19.3 Failure or delay by the Company in enforcing or partially enforcing any provision of a Contract shall not be construed as a waiver of any of its rights under such Contract.
- 19.4 Any waiver by the Company of any breach of, or any default under, any provision of a Contract by the Buyer shall not be deemed a waiver of any subsequent breach or default and shall in no way affect the other terms of such Contract.
- 19.5 The parties to a Contract do not intend that any term of such Contract shall be enforceable by virtue of the Contracts (Rights of Third Parties) Act 1999 by any person that is not a party to it.
- 19.6 The formation, existence, construction, performance, validity and all aspects of any Contract shall be governed by English law and the parties shall submit to the exclusive jurisdiction of the English courts.



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