William Hackett

Lifting Products Limited

OFFSHORE

WHB-0007 Rev. 9

Contents

Safe Just Became Safer

Management Systems

William Hackett is proud to be a triple badged quality assured company. All of our business activities are conducted within quality, environmental, and occupational health and safety management systems that are assessed and certified in accordance with ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018.

Holding DNV accreditation within these standards of system control, all of our products, including our complete offshore range, undergo rigorous quality checks as part of our manufacturing process.

LEEA

William Hackett is a full member of the lifting industry trade body, Lifting Equipment Engineers Association (LEEA). Our affiliation with LEEA is strong, with our Group Business Development Director, Ben Burgess, being a member of LEEA's board. Additionally, one third of our team hold their fully qualified LEEA registered technician status, making us well equipped to improve the safety of your lifting operations.

William Hackett Assure Portal

Our Assure portal offers market leading product traceability and certification retrieval. This fully integrated stock system allows William Hackett distributors to place orders, review product purchase history, obtain current and historic test certifications, and obtain product safe use instructions, providing enhanced quality assurance to our stakeholders.

International Standards

William Hackett range of offshore products are designed and manufactured to meet and exceed the requirements of the applicable respective International Standards. For further details, please refer to the respective product pages contained herein.

DNV Verification

William Hackett manual chain and lever hoists are verified by DNV as compliant with the requirements of the relevant international standards (verification no. N141UH09). By investing in third party verification, we are able to further demonstrate our commitment to manufacturing and supplying high quality products that are focused on raising safety during lifting operations.

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 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 in relation to the content of tables, the information contained does not form part of any contract.

HA Master Links OS+

The DNV type approved HA range of master links are recognised and specified globally by operators, contractors and rigging shops for use in offshore rigging and DNV 2.7-1 container lifting sets. The industry leading HA master link range benefits from the following:

DNV type approved: certified by DNV pursuant to Type Approval No. TAS00003J2 Rev. 1 and Type Approval No. TAS0000337 Rev. 3 in accordance with DNV-ST-E271, DNV-ST-E273, BSEN ISO 10855-2, EN1677-4, ASME B30.26, and API-2CCU - 2017-08.

Additional standards: In addition to standards covered by DNV type approval, this product is designed and manufactured in accordance with AS3776:2015.

Product sizes: available in diameters from 16mm up to 120mm and working load limits from 4.1 tonnes to 250 tonnes.

Temperature range: - 40°C to + 200°C without reduction in WLL.

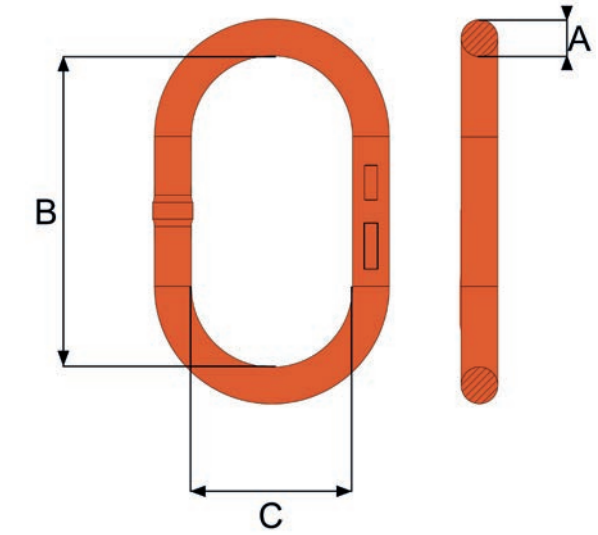
Material & hardness: manufactured from grade 8 triple alloy steel, with a hardness range of 34 to 36 HRC.

Average impact energy (Charpy): 42 Joules minimum impact resistance at - 40°C (up to 50mm diameter).

Testing: individually proof load tested to 2.5 times WLL (for sizes 16mm to 75mm) and 2 times WLL (for sizes 90mm and 120mm), and 100% MPI tested.

Embossing: includes product description (i.e., “HA16ML 8 OS+”) and batch number.

Safety factor: 5 : 1.



Metric Specifications

Part Code	Description	A mm	B mm	C mm	WLL t	Mass kg
330.160+	HA16ML 8 OS+	16.0	150	75	4.10	0.68
330.22S+	HA22MLS 8 OS+	22.0	162	90	11.00	1.47
330.220+	HA22ML 8 OS+	22.0	270	140	7.00	2.28
330.250+	HA25ML 8 OS+	25.5	270	140	9.30	3.11
330.28S+	HA28MLS 8 OS+	28.0	200	110	19.50	2.95
330.280+	HA28ML 8 OS+	28.0	270	140	14.50	3.78
330.320+	HA32ML 8 OS+	32.0	270	140	19.00	5.02
330.360+	HA36ML 8 OS+	36.0	270	140	26.00	6.46
330.400+	HA40ML 8 OS+	40.0	280	155	30.50	8.46
330.450+	HA45ML 8 OS+	45.0	320	175	40.00	12.18
330.500+	HA50ML 8 OS+	50.0	350	195	51.00	16.54
330.650+	HA65ML 8 OS+	65.0	410	220	75.00	33.02
330.750+	HA75ML 8 OS+	75.0	450	250	100.00	48.98
330.900	HA90ML*	90.0	510	300	150.00	86.00
330.1200	HA120ML*	120.0	610	410	250.00	197.00

Imperial Specifications

Part Code	Description	A inch	B inch	C inch	WLL lbs	Mass lbs
330.160+	HA16ML 8 OS+	5/8	6	3	9,038	1.50
330.22S+	HA22MLS 8 OS+	7/8	6-1/2	3-5/8	24,250	3.24
330.220+	HA22ML 8 OS+	7/8	10-3/4	5-5/8	15,432	5.03
330.250+	HA25ML 8 OS+	1	10-3/4	5-5/8	20,503	6.86
330.28S+	HA28MLS 8 OS+	1-1/8	8	4-3/8	42,990	6.50
330.280+	HA28ML 8 OS+	1-1/8	10-3/4	5-5/8	31,967	8.33
330.320+	HA32ML 8 OS+	1-1/4	10-3/4	5-5/8	41,887	11.07
330.360+	HA36ML 8 OS+	1-7/16	10-3/4	5-5/8	57,320	14.29
330.400+	HA40ML 8 OS+	1-9/16	11	6	67,240	18.65
330.450+	HA45ML 8 OS+	1-3/4	12-3/4	7	88,184	26.85
330.500+	HA50ML 8 OS+	2	14	7-3/4	112,436	36.46
330.650+	HA65ML 8 OS+	2-9/16	16-1/8	8-5/8	165,347	72.80
330.750+	HA75ML 8 OS+	3	18	10	220,462	108.00
330.900*	HA90ML*	3-5/8	21	12-1/2	330,693	189.59
330.1200*	HA120ML*	4-3/4	24	16-3/8	551,156	434.31

*Certified on a batch basis to the requirements of DNV 2.7-1

HA Quad Assemblies OS+

The DNV type approved HA range of quad assemblies are recognised and specified globally by operators, contractors and rigging shops for use in offshore rigging and DNV 2.7-1 container lifting sets. The industry leading HA quad assembly range benefits from the following:

DNV type approved: certified by DNV pursuant to Type Approval No. TAS00003J2 Rev. 1 and Type Approval No. TAS0000337 Rev. 3 in accordance with DNV-ST-E271, DNV-ST-E273, BSEN ISO 10855-2, EN1677-4, ASME B30.26, and API-2CCU - 2017-08.

Additional standards: In addition to standards covered by DNV type approval, this product is designed and manufactured in accordance with AS3776:2015.

Product sizes: available in diameters from 16mm up to 90mm and working load limits from 4.1 tonnes to 150 tonnes.

Temperature range: - 40°C to + 200°C without reduction in WLL.

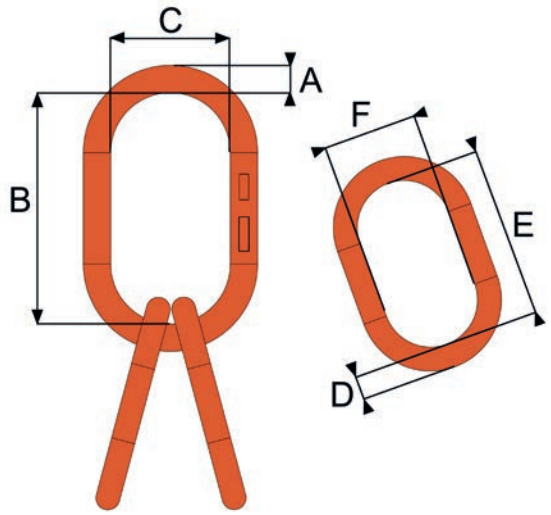
Material & hardness: manufactured from grade 8 triple alloy steel, with a hardness range of 34 to 36 HRC.

Average impact energy (Charpy): 42 Joules minimum impact resistance at - 40°C (up to 50mm diameter).

Testing: individually proof load tested to 2.5 times WLL (for sizes 16mm to 75mm) and 2 times WLL (for size 90mm), and 100% MPI tested.

Embossing: includes product description (i.e., “HA16QA 8 OS+”) and batch number.

Safety factor: 5 : 1.



Metric Specifications

Part Code	Description	A mm	B mm	C mm	D mm	E mm	F mm	WLL t	Mass kg
350.160+	HA16QA 8 OS+	16.0	150	75	14.5	125	60	4.10	1.62
350.220+	HA22QA 8 OS+	22.0	162	90	22.0	162	90	11.00	4.41
350.230+	HA23QA 8 OS+	22.0	270	140	22.0	162	90	7.00	5.22
350.250+	HA25QA 8 OS+	25.5	270	140	22.0	162	90	9.30	6.05
350.260+	HA26QA 8 OS+	28.0	270	140	22.0	162	90	14.50	6.73
350.320+	HA32QA 8 OS+	32.0	270	140	28.0	200	110	19.00	10.92
350.360+	HA36QA 8 OS+	36.0	270	140	28.0	200	110	26.00	12.35
350.400+	HA40QA 8 OS+	40.0	280	155	32.0	270	140	30.50	18.50
350.450+	HA45QA 8 OS+	45.0	320	175	36.0	270	140	40.00	25.09
350.500+	HA50QA 8 OS+	50.0	350	195	45.0	320	175	51.00	40.89
350.650+	HA65QA 8 OS+	65.0	410	220	50.0	350	195	75.00	66.10
350.750+	HA75QA 8 OS+	75.0	450	250	65.0	410	220	100.00	115.02
350.900	HA90QA*	90.0	510	300	70.0	400	200	150.00	164.10

Imperial Specifications

Part Code	Description	A inch	B inch	C inch	D inch	E inch	F inch	WLL lbs	Mass lbs
350.160+	HA16QA 8 OS+	5/8	6	3	9/16	5	2-3/8	9,038	3.57
350.220+	HA22QA 8 OS+	7/8	6-1/2	3-5/8	7/8	6-3/8	3-9/16	24,250	9.72
350.230+	HA23QA 8 OS+	7/8	10-3/4	5-5/8	7/8	6-3/8	3-9/16	15,432	11.50
350.250+	HA25QA 8 OS+	1	10-3/4	5-5/8	7/8	6-3/8	3-9/16	20,502	13.33
350.260+	HA26QA 8 OS+	1-1/8	10-3/4	5-5/8	7/8	6-3/8	3-9/16	31,966	14.83
350.320+	HA32QA 8 OS+	1-1/4	10-3/4	5-5/8	1-1/8	7-7/8	4-5/16	41,887	24.07
350.360+	HA36QA 8 OS+	1-7/16	10-3/4	5-5/8	1-1/8	7-7/8	4-5/16	57,319	27.22
350.400+	HA40QA 8 OS+	1-9/16	11	6	1-1/4	10-5/8	5-1/2	67,240	40.78
350.450+	HA45QA 8 OS+	1-3/4	12-3/4	7	1-7/16	10-5/8	5-1/2	88,184	55.31
350.500+	HA50QA 8 OS+	2	14	7-3/4	1-3/4	12-5/8	6-7/8	112,434	90.14
350.650+	HA65QA 8 OS+	2-9/16	16-1/8	8-5/8	2	13-3/4	7-11/16	165,345	145.72
350.750+	HA75QA 8 OS+	3	18	10	2-9/16	16-1/8	8-11/16	220,460	253.57
350.900	HA90QA*	3-5/8	21	12-1/2	2-3/4	15-3/4	7-7/8	330,600	360.00

*Certified on a batch basis to the requirements of DNV 2.7-1

Zinc-Tough® Technology

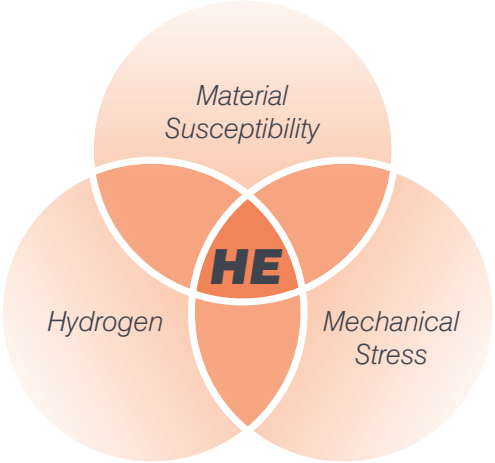
William Hackett and McKinnon Chain have combined their technical knowledge and worked alongside a wide range of stakeholders, to develop Zinc-Tough® Technology. The Zinc-Tough® range of chain and master links supplied by William Hackett provides superior corrosion protection whilst complementing the steel's inherent resistance to hydrogen embrittlement (HE) and hydrogen assisted stress cracking (HASC), making them ideal for use in both marine and aquaculture applications within an offshore environment.

What is hydrogen embrittlement (HE)?

Hydrogen embrittlement (HE) is the process by which metals such as steel become brittle and fracture under stress, this is due to the introduction and subsequent diffusion of hydrogen into the metal.

Root causes of hydrogen embrittlement (HE)

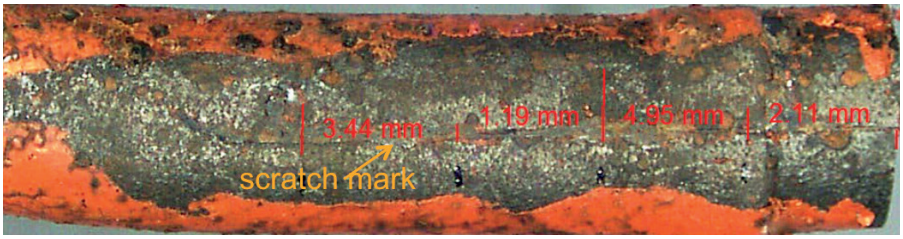
For hydrogen embrittlement (HE) to take place, three elements are required: a source of hydrogen, material susceptibility (or hardness of the steel) and mechanical stresses.



Rust penetration below the powder coating at 600 hours

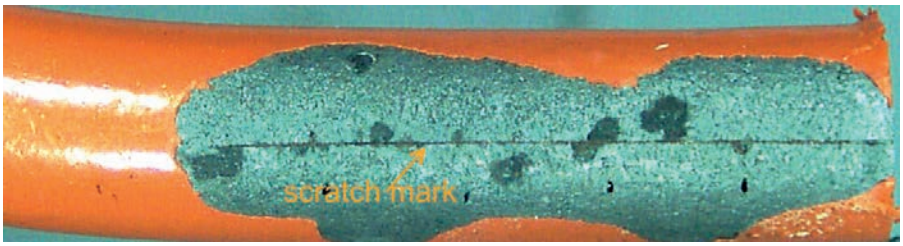
1. Standard link with powder coated surface only

Corrosion creeps beneath the powder coated layer. The powder coating flakes off easily.



2. Zinc-Tough® link with zinc thermal diffusion treatment and powder coating

No corrosion creepage. The powder coat layer remains intact.



Benefits of ZINC-TOUGH® TECHNOLOGY

Non interference with metallurgical properties
The low temperature application of the coating process has no interference with hardness and toughness properties

Zero risk to hydrogen embrittlement
Many coating processes such as galvanizing and electroplating bring with them the risk of embrittlement. This process poses a zero risk of hydrogen embrittlement.

Corrosion protection
The zinc-iron alloy coating is a sacrificial coating providing galvanic protection.

Excellent bonding surface and spark free
The zinc layers are spark free and provide an excellent bonding surface and is ideal for powder coating.

Abrasion resistant
The coating approximately 45µ in thickness is highly abrasion resistant.

Environmentally friendly process
Zinc thermal diffusion is an environmental friendly process (a non-toxic, heavy metal free process with minimum waste).

HA Master Links OS+ Zinc-Tough®

The DNV type approved HA range of master links are available with the additional benefit of Zinc-Tough® technology. This zinc thermal diffusion surface treatment provides superior protection against hydrogen embrittlement and stress corrosion cracking. This makes the Zinc-Tough® HA master link range the optimal solution for lifting operations in the harshest offshore environments. Alongside Zinc-Tough®, our HA master link range benefits from the following:

DNV type approved: certified by DNV pursuant to Type Approval No. TAS00003J4 Rev. 1 and Type Approval No. TAS0000333 Rev. 3 in accordance with DNV-ST-E271, DNV-ST-E273, BSEN ISO 10855-2, EN1677-4, ASME B30.26, and API-2CCU - 2017-08.

Additional standards: In addition to standards covered by DNV type approval, this product is designed and manufactured in accordance with AS3776:2015.

Product sizes: available in diameters from 22mm up to 75mm and working load limits from 7 tonnes to 100 tonnes.

Temperature range: - 40°C to + 200°C without reduction in WLL.

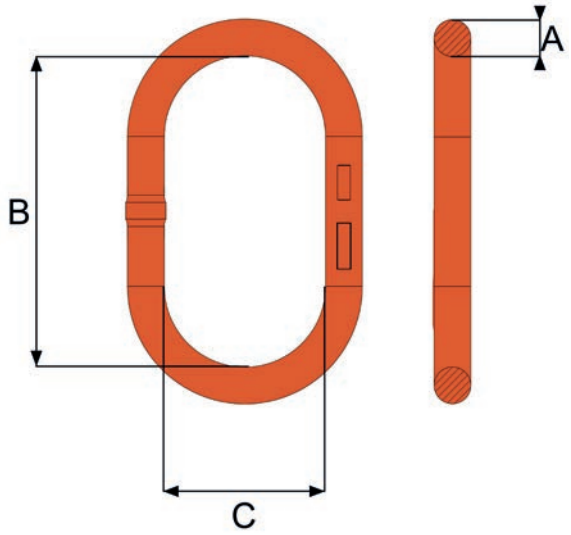
Material & hardness: manufactured from grade 8 triple alloy steel with Zinc-Tough® treatment, and a hardness range of 34 to 36 HRC.

Average impact energy (Charpy): 42 Joules minimum impact resistance at - 40°C (up to 50mm diameter).

Testing: individually proof load tested to 2.5 times working load limit, and 100% MPI tested.

Embossing: includes product description (i.e., “HA22ML OS+ ZT”) and batch number.

Safety factor: 5 : 1.



Metric Specifications

Part Code	Description	A mm	B mm	C mm	WLL t	Mass kg
330.220.+ZT	HA22ML OS+ ZT	22.0	270	140	7.00	2.28
330.250.+ZT	HA25ML OS+ ZT	25.5	270	140	9.30	3.11
330.280.+ZT	HA28ML OS+ ZT	28.0	270	140	14.50	3.78
330.320.+ZT	HA32ML OS+ ZT	32.0	270	140	19.00	5.02
330.360.+ZT	HA36ML OS+ ZT	36.0	270	140	26.00	6.46
330.400.+ZT	HA40ML OS+ ZT	40.0	280	155	30.50	8.46
330.450.+ZT	HA45ML OS+ ZT	45.0	320	175	40.00	12.18
330.500.+ZT	HA50ML OS+ ZT	50.0	350	195	51.00	16.54
330.650.+ZT	HA65ML OS+ ZT	65.0	410	220	75.00	33.02
330.750.+ZT	HA75ML OS+ ZT	75.0	450	250	100.00	48.98

Imperial Specifications

Part Code	Description	A inch	B inch	C inch	WLL lbs	Mass lbs
330.220.+ZT	HA22ML OS+ ZT	7/8	10-3/4	5-5/8	15,432	5.03
330.250.+ZT	HA25ML OS+ ZT	1	10-3/4	5-5/8	20,503	6.86
330.280.+ZT	HA28ML OS+ ZT	1-1/8	10-3/4	5-5/8	31,967	8.33
330.320.+ZT	HA32ML OS+ ZT	1-1/4	10-3/4	5-5/8	41,887	11.07
330.360.+ZT	HA36ML OS+ ZT	1-7/16	10-3/4	5-5/8	57,320	14.29
330.400.+ZT	HA40ML OS+ ZT	1-9/16	11	6	67,240	18.65
330.450.+ZT	HA45ML OS+ ZT	1-3/4	12-3/4	7	88,184	26.85
330.500.+ZT	HA50ML OS+ ZT	2	14”	7-3/4	112,436	36.46
330.650.+ZT	HA65ML OS+ ZT	2-9/16	16-1/8	8-5/8	165,347	72.80
330.750.+ZT	HA75ML OS+ ZT	3	18	10	220,462	108.00

HA Quad Assemblies OS+ Zinc-Tough®

The DNV type approved HA range of quad assemblies are available with the additional benefit of Zinc-Tough® technology. This zinc thermal diffusion surface treatment, provides superior protection against hydrogen embrittlement and stress corrosion cracking. This makes Zinc-Tough® HA quad assembly range the optimal solution for lifting operations in the harshest offshore environments. Alongside Zinc-Tough®, our HA quad assembly range benefits from the following:

DNV type approved: certified by DNV pursuant to Type Approval No. TAS00003J4 Rev. 1 and Type Approval No. TAS0000333 Rev. 3 in accordance with DNV-ST-E271, DNV-ST-E273, BSEN ISO 10855-2, EN1677-4, ASME B30.26, and API-2CCU - 2017-08.

Additional standards: In addition to standards covered by DNV type approval, this product is designed and manufactured in accordance with AS3776:2015.

Product sizes: available in diameters from 22mm up to 75mm and working load limits from 7 tonnes to 100 tonnes.

Temperature range: - 40°C to + 200°C without reduction in WLL.

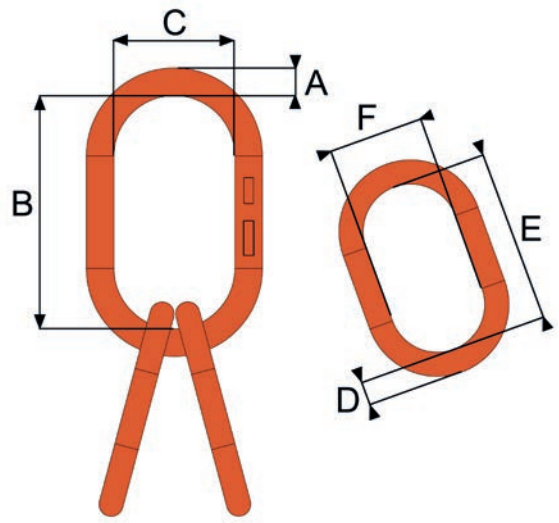
Material & hardness: manufactured from grade 8 triple alloy steel with Zinc-Tough® treatment, and a hardness range of 34 to 36 HRC.

Average impact energy (Charpy): 42 Joules minimum impact resistance at - 40°C (up to 50mm diameter).

Testing: individually proof load tested to 2.5 times working load limit, and 100% MPI tested.

Embossing: includes product description (i.e., “HA25QA OS+ ZT”) and batch number.

Safety factor: 5 : 1.



Metric Specifications

Part Code	Description	A mm	B mm	C mm	D mm	E mm	F mm	WLL t	Mass kg
350.230.+ZT	HA23QA OS+ ZT	22.0	270	140	22.0	162	90	7.00	5.22
350.250.+ZT	HA25QA OS+ ZT	25.5	270	140	22.0	162	90	9.30	6.05
350.260.+ZT	HA26QA OS+ ZT	28.0	270	140	22.0	162	90	14.50	6.73
350.320.+ZT	HA32QA OS+ ZT	32.0	270	140	28.0	200	110	19.00	10.92
350.360.+ZT	HA36QA OS+ ZT	36.0	270	140	28.0	200	110	26.00	12.35
350.400.+ZT	HA40QA OS+ ZT	40.0	280	155	32.0	270	140	30.50	18.50
350.450.+ZT	HA45QA OS+ ZT	45.0	320	175	36.0	270	140	40.00	25.09
350.500.+ZT	HA50QA OS+ ZT	50.0	350	195	45.0	320	175	51.00	40.89
350.650.+ZT	HA65QA OS+ ZT	65.0	410	220	50.0	350	195	75.00	66.10
350.750.+ZT	HA75QA OS+ ZT	75.0	450	250	65.0	410	220	100.00	115.02

Imperial Specifications

Part Code	Description	A inch	B inch	C inch	D inch	E inch	F inch	WLL lbs	Mass lbs
350.230.+ZT	HA23QA OS+ ZT	7/8	10-3/4	5-5/8	7/8	6-3/8	3-9/16	15,432	11.50
350.250.+ZT	HA25QA OS+ ZT	1	10-3/4	5-5/8	7/8	6-3/8	3-9/16	20,502	13.33
350.260.+ZT	HA26QA OS+ ZT	1-1/8	10-3/4	5-5/8	7/8	6-3/8	3-9/16	31,966	14.83
350.320.+ZT	HA32QA OS+ ZT	1-1/4	10-3/4	5-5/8	1-1/8	7-7/8	4-5/16	41,887	24.07
350.360.+ZT	HA36QA OS+ ZT	1-7/16	10-3/4	5-5/8	1-1/8	7-7/8	4-5/16	57,319	27.22
350.400.+ZT	HA40QA OS+ ZT	1-9/16	11	6	1-1/4	10-5/8	5-1/2	67,240	40.78
350.450.+ZT	HA45QA OS+ ZT	1-3/4	12-3/4	7	1-7/16	10-5/8	5-1/2	88,184	55.31
350.500.+ZT	HA50QA OS+ ZT	2	14	7-3/4”	1-3/4	12-5/8	6-7/8	112,434	90.14
350.650.+ZT	HA65QA OS+ ZT	2-9/16	16-1/8	8-5/8	2	13-3/4	7-11/16	165,345	145.72
350.750.+ZT	HA75QA OS+ ZT	3	18	10	2-9/16	16-1/8	8-11/16	220,460	253.57

HA Intermediate B Links Zinc-Tough®

The DNV type approved HA range of intermediate B links are a widely used and compact solution that allows for supplementary components to be connected to rigging and lifting assemblies. These links as supplied as standard with Zinc-Tough® technology, and benefit from the following:

DNV type approved: certified by DNV pursuant to Type Approval No. TAS00003J4 Rev. 1 and Type Approval No. TAS0000333 Rev. 3 in accordance with DNV-ST-E271, DNV-ST-E273, BSEN ISO 10855-2, EN1677-4, ASME B30.26, and API-2CCU - 2017-08.

Additional standards: In addition to standards covered by DNV type approval, this product is designed and manufactured in accordance with AS3776:2015.

Product sizes: available in diameters from 14.5mm up to 36mm and working load limits from 3.7 tonnes to 31.8 tonnes.

Temperature range: - 40°C to + 200°C without reduction in WLL.

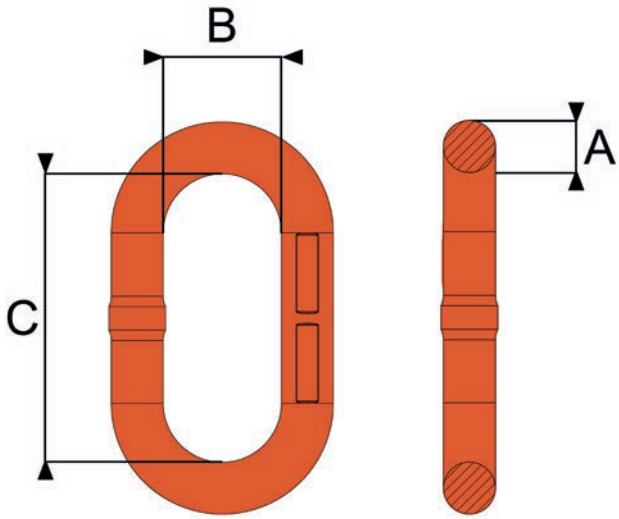
Material & hardness: manufactured from grade 8 triple alloy steel with Zinc-Tough® treatment, and a hardness range of 34 to 36 HRC.

Average impact energy (Charpy): 42 Joules minimum impact resistance at - 40°C.

Testing: individually proof load tested to 2.5 times working load limit, and 100% MPI tested.

Embossing: includes product description (i.e., “HA-16L 8 OSZT”) and batch number.

Safety factor: 5 : 1.



Metric Specifications

Part Code	Description	A mm	B mm	C mm	WLL t	Mass kg
360.145IML	HA-145IL 8 OSZT	14.5	90	50	3.70	0.37
360.160IML	HA-16IL 8 OSZT	16.0	100	40	5.30	0.47
360.200IML	HA-20IL 8 OSZT	20.0	110	50	8.60	0.84
360.220IML	HA-22IL 8 OSZT	22.0	120	50	11.00	1.09
360.260IML	HA-26IL 8 OSZT	26.0	130	60	15.70	1.71
360.320IML	HA-32IL 8 OSZT	32.0	150	70	24.80	3.04
360.360IML	HA-36IL 8 OSZT	36.0	160	80	31.80	4.20

Imperial Specifications

Part Code	Description	A inch	B inch	C inch	WLL lbs	Mass lbs
360.145IML	HA-145IL 8 OSZT	9/16	3-5/8	2	8,157	0.81
360.160IML	HA-16IL 8 OSZT	5/8	4	1-9/16	11,684	1.03
360.200IML	HA-20IL 8 OSZT	3/4	4-3/8	2	18,959	1.85
360.220IML	HA-22IL 8 OSZT	7/8	4-3/4	2	24,250	2.40
360.260IML	HA-26IL 8 OSZT	1	5-1/8	2-3/8	34,612	3.76
360.320IML	HA-32IL 8 OSZT	1-1/4	6	2-3/4	54,674	6.70
360.360IML	HA-36IL 8 OSZT	1-7/16	6-5/16	3-1/8	70,107	9.25

HA Master Links with Handles

The HA range of master links with handles are designed specifically for the lifting and lowering of lifeboats. All HA master links with handles have a primary application of Zinc-Tough® corrosion protection treatment, complimented by a secondary application of orange powder coating. These links also benefit from the following:

Standards: designed and manufactured in accordance with DNV-ST-E271, EN1677-4, ASME B30.26, and AS3776-2015.

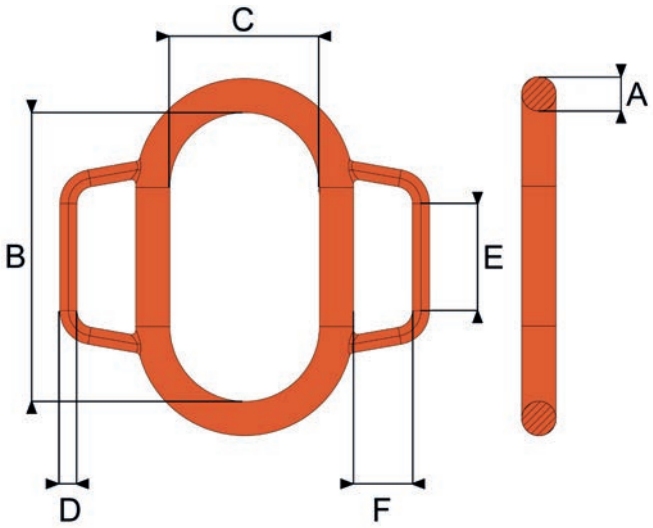
Product sizes: available in diameters from 22mm up to 36mm and working load limits from 7 tonnes to 26 tonnes.
Temperature range: - 40°C to + 200°C without reduction in WLL.

Material & hardness: manufactured from grade 8 triple alloy steel with Zinc-Tough® treatment, and a hardness range of 34 to 36 HRC.

Average impact energy (Charpy): 42 Joules minimum impact resistance at - 40°C.
Testing: individually proof load tested to 2.5 times working load limit, and 100% MPI tested.

Embossing: includes product description (i.e., “HA-22 H8 OS+”) and batch number.

Safety factor: 5 : 1.



Metric Specifications

Part Code	Description	A mm	B mm	C mm	D mm	E mm	F mm	WLL t	Mass kg
330.220.H	HA22 H8 OS+	22.0	270	140	16	100	55	7.00	3.00
330.250.H	HA25 H8 OS+	25.5	270	140	16	100	55	9.30	3.84
330.280.H	HA28 H8 OS+	28.0	270	140	16	100	55	14.50	4.51
330.320.H	HA32 H8 OS+	32.0	270	140	16	100	55	19.00	5.75
330.360.H	HA36 H8 OS+	36.0	270	140	16	100	55	26.00	7.19

Imperial Specifications

Part Code	Description	A inch	B inch	C inch	D inch	E inch	F inch	WLL lbs	Mass lbs
330.220.H	HA22 H8 OS+	7/8	10-5/8	5-1/2	5/8	4	2-1/8	15,432	6.61
330.250.H	HA25 H8 OS+	1	10-5/8	5-1/2	5/8	4	2-1/8	20,503	8.46
330.280.H	HA28 H8 OS+	1-1/8	10-5/8	5-1/2	5/8	4	2-1/8	31,967	9.94
330.320.H	HA32 H8 OS+	1-1/4	10-5/8	5-1/2	5/8	4	2-1/8	41,888	12.67
330.360.H	HA36 H8 OS+	1-1/2	10-5/8	5-1/2	5/8	4	2-1/8	57,320	15.85

Grade 8 Welded Chain Slings

William Hackett design and supply DNV type approved grade 8 welded chain slings for use in DNV 2.7-1 offshore container and DNV 2.7-3 portal offshore unit lifting sets. Our extensive design capability and manufacturing knowledge enables us to supply standard configurations from stock as well as bespoke solutions to suit specific requirements. Our grade 8 welded chain slings benefit from the following features:

DNV type approved: certified by DNV pursuant to Type Approval No. TAS00003J5 Rev. 1 and Type Approval No. TAS0000335 Rev. 2 (and Type Approval No. TAS00001RH Rev. 5 for Zinc-Tough® variants) in accordance with DNV-ST-E271, DNV-ST-E273, EN818-4, and ISO 10855-2:2018.

Product sizes: available in diameters from 13mm up to 20mm and working load limits from 13.76 tonnes to 27.59 tonnes.

Leg configurations: available in 2 x 2 leg, 4 leg or 5 leg configurations.

Temperature range: - 40°C to + 200°C without reduction in WLL.

Material & hardness: manufactured from grade 8 triple alloy steel, with a maximum hardness of 38 HRC, giving outstanding toughness qualities.

Average impact energy (Charpy): 42 Joules minimum impact resistance at - 20°C.

Surface finish: Available in either powder coat paint finish or with Zinc-Tough® surface treatment (Zinc-Tough® variants can also be complimented by powder coat paint).

Testing: individually proof load tested to 2.5 times working load limit, and 100% MPI tested.

Safety factor: 4 : 1.

The working load limits of DNV 2.7-1 compliant chain slings that are used with DNV 2.7-1 containers are adjusted using the enhancement factors detailed in the adjacent tables to give the maximum gross weight (MGW) of the containers to be lifted.

2 x 2 leg

Description	Angle	Max. WLL t	Enhance Factor	Container MGW kg
13mm x 2 leg set	30°	13.76	1.586	8,700
13mm x 2 leg set	45°	11.26	1.732	6,500
16mm x 2 leg set	30°	20.78	1.230	16,900
16mm x 2 leg set	45°	16.95	1.413	12,000
20mm x 2 leg set	30°	27.59	1.104	25,000
20mm x 2 leg set	45°	26.50	1.114	23,800

4 leg

13mm x 4 leg	30°	13.76	1.586	8,700
13mm x 4 leg	45°	11.26	1.732	6,500
16mm x 4 leg	30°	20.78	1.230	16,900
16mm x 4 leg	45°	16.95	1.413	12,000
20mm x 4 leg	30°	27.59	1.104	25,000
20mm x 4 leg	45°	26.50	1.114	23,800

5 leg

13mm x 5 leg	30°	13.76	1.586	8,700
13mm x 5 leg	45°	11.26	1.732	6,500
16mm x 5 leg	30°	20.78	1.230	16,900
16mm x 5 leg	45°	16.95	1.413	12,000
20mm x 5 leg	30°	27.59	1.104	25,000
20mm x 5 leg	45°	26.50	1.114	23,800

Grade 8 Mechanically Assembled Chain Slings

In addition to our welded chain sling range, William Hackett are the first organisation to have DNV type approval for the design, assembly and supply of DNV grade 8 mechanically assembled chain slings. Our mechanically assembled chain slings are designed for use in DNV 2.7-1 offshore container and DNV 2.7-3 portal offshore unit lifting sets, and benefit from the following features:

DNV type approved: certified by DNV pursuant to Type Approval No. TAS00002DV Rev. 1 in accordance with DNV-ST-E271, DNV-ST-E273, EN818-4, and ISO 10855-2:2018.

Product sizes: available in diameters from 13mm up to 20mm and working load limits from 13.76 tonnes to 27.59 tonnes.

Leg configurations: available in 2 x 2 leg or 4 leg **configurations.**

Temperature range: - 40°C to + 200°C without reduction in WLL.

Material & hardness: manufactured from grade 8 triple alloy steel.

Safety factor: 4 : 1.

The working load limits of DNV 2.7-1 compliant chain slings that are used with DNV 2.7-1 containers are adjusted using the enhancement factors detailed in the adjacent tables to give the maximum gross weight (MGW) of the containers to be lifted.

Description	Angle	Max. WLL t	Enhance Factor	Container MGW kg
13mm x 2 leg set; and 13mm x 4 leg	30°	13.76	1.586	8,700
13mm x 2 leg set; and 13mm x 4 leg	45°	11.26	1.732	6,500
16mm x 2 leg set; and 16mm x 4 leg	30°	20.78	1.230	16,900
16mm x 2 leg set; and 16mm x 4 leg	45°	16.95	1.413	12,000
20mm x 2 leg set; and 20mm x 4 leg	30°	27.59	1.104	25,000
20mm x 2 leg set; and 20mm x 4 leg	45°	25.45	1.125	22,600

Marine Grade 8 Chain Slings

The marine grade 8 chain sling range offers our most versatile corrosion resistance solution for lifting and rigging offshore. Comprised of Zinc-Tough® master links and marine grade 8 chain, as well as specialist sherardised components, our grade 8 chain slings combine the resilience of a Zinc-Tough® welded chain sling with the practicality of a mechanically assembled chain sling.

Standards: designed and manufactured in accordance with EN818-1, EN818-2, EN818-4 and EN1677-1.

Product sizes: available in diameters from 8mm up to 32mm and working load limits from 2 tonnes to 67 tonnes.

Leg configurations: available in 1, 2, 3 or 4 leg configurations.

Temperature range: - 40°C to + 200°C without reduction in WLL.

Material & hardness: manufactured from grade 8 triple alloy steel. Master links and chain finished with Zinc-Tough® treatment and have a maximum hardness of 38 HRC. Connectors feature a sherardised finish.

Average impact energy (Charpy): master links and chain subject to 42 Joules minimum impact testing at -20°C.

Safety factor: 4 : 1.

Single Leg Chain Slings

Chain Size mm	Straight Lift	Single Leg in Basket Hitch (back hooked into top link)	Choke Hitch	Choke Hitch
7	1.5	1.5	1.2	2.1
8	2.0	2.0	1.6	2.8
10	3.15	3.15	2.5	4.25
13	5.3	5.3	4.2	7.5
16	8.0	8.0	6.4	11.2
20	12.5	12.5	10.0	17.0
22	15.0	15.0	12.0	21.2
26	21.2	21.2	17.0	30.0
32	31.5	31.5	25.2	45.0

Two Leg Chain Slings

Chain Size mm	Straight Lift 0°-45°	Straight Lift 45°-60°	Choke Hitch 0°-45°	Choke Hitch 45°-60°	Double Basket 0°-45°	Double Basket 45°-60°
7	2.1	1.5	1.6	1.2	2.1	1.5
8	2.8	2.0	2.2	1.6	2.8	2.0
10	4.25	3.15	3.4	2.5	4.25	3.15
13	7.5	5.3	6.0	4.2	7.5	5.3
16	11.2	8.0	9.0	6.4	11.2	8.0
20	17.0	12.5	13.6	10.0	17.0	12.5
22	21.2	15.0	17.0	12.0	21.2	15.0
26	30.0	21.2	24.0	17.0	30.0	21.2
32	45.0	31.5	36.0	25.2	45.0	31.5

Three and Four Leg Chain Slings

Chain Size mm	Straight Lift 0°-45°	Straight Lift 45°-60°	Choke Hitch 0°-45°	Choke Hitch 45°-60°	Double Basket 0°-45°	Double Basket 45°-60°
7	3.1	2.2	2.5	1.7	3.15	2.2
8	4.2	3.0	3.3	2.4	4.2	3.0
10	6.7	4.75	5.3	3.8	6.7	4.75
13	11.2	8.0	8.9	6.4	11.2	8.0
16	17.0	11.8	13.6	9.4	17.0	11.8
20	26.5	19.0	21.2	15.2	26.5	19.0
22	31.5	22.4	25.2	17.9	31.5	22.4
26	45.0	31.5	36.0	25.2	45.0	31.5
32	67.0	47.5	53.6	38.0	67.0	47.5

All loads shown in tonnes

Grade 8 DA Omega Link

The Grade 8 DA omega link is used in our DNV type approved mechanically assembled chain slings, and benefits from the following notable features:

Product sizes: available for slings with chain diameters of 13mm up to 20mm, with individual working load limits ranging from 5.3 tonnes to 12.5 tonnes.

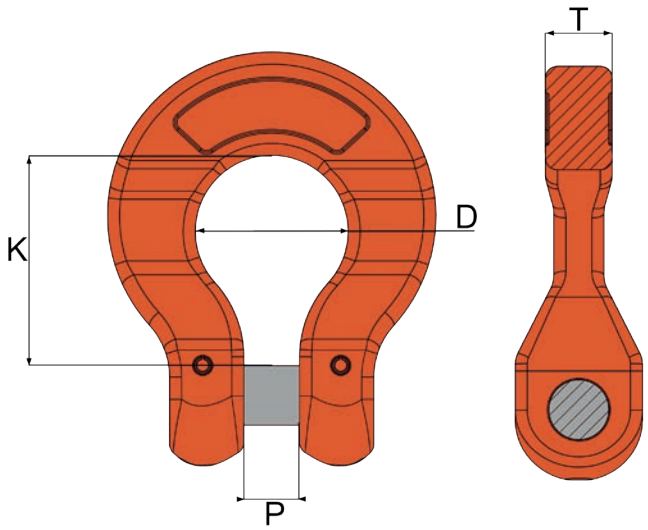
Temperature range: - 40°C to + 200°C without reduction in WLL.

Material & hardness: manufactured from grade 8 triple alloy steel, quenched and tempered.

Charpy certification: 42 Joules minimum impact testing at - 20°C.

Testing: Tested and certified in accordancing with EN1677-1, and individually magnaflux crack detected.

Safety factor: 4 : 1.



Metric Specifications

Part Code	Chain Size mm	D mm	K mm	P mm	T mm	WLL t	Mass kg
DA-018-06	6	21	29	7	9	1.12	0.10
DA-018-07	7, 8	27	36	9	11	2.00	0.20
DA-018-10	10	32	44	12	15	3.15	0.40
DA-018-13	13	42	55	16	17	5.30	0.90
DA-018-16	16	50	69	18	22	8.00	1.50
DA-018-20	20	58	83	22	28	12.50	2.10

Imperial Specifications

Part Code	Chain Size inch	D inch	K inch	P inch	T inch	WLL lbs	Mass lbs
DA-018-06	7/32	0.83	1.14	0.28	0.35	2,469	0.22
DA-018-07	1/4 - 5/16	1.06	1.42	0.35	0.43	4,409	0.44
DA-018-10	3/8	1.26	1.73	0.47	0.59	6,944	0.88
DA-018-13	1/2	1.65	2.17	0.63	0.67	11,684	1.98
DA-018-16	5/8	1.97	2.72	0.71	0.87	17,637	3.30
DA-018-20	3/4	2.28	3.27	0.87	1.10	27,557	4.62

Marine Grade 8 Connector

The marine grade 8 connector features a sherardized finish which mitigates the onset of corrosion and hydrogen embrittlement in extreme offshore environments. The marine grade 8 connector benefits from the following:

Standards: designed and manufactured in compliance with EN1677-1 and suitable for use in chain slings certified to EN818-4.

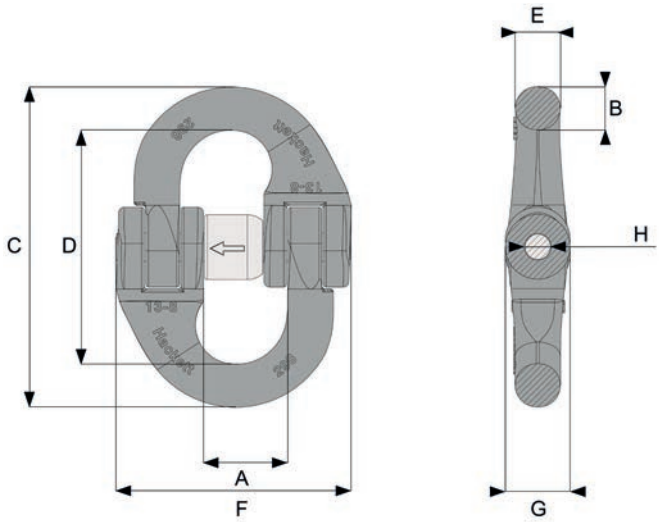
Product sizes: available from 8mm up to 32mm and with working load limits from 2 tonnes to 31.5 tonnes.

Temperature range: - 40°C to + 200°C without reduction in WLL.

Material: grade 8 alloy steel.

Testing: crack detection following heat treatment, and finally proof tested to 2.5 times working load limit.

Safety factor: 4 : 1.



Metric Specifications

Part Code	Chain Size mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	WLL t	Mass kg
8-H03-08.SHER	7, 8	20.5	9.0	79.5	60.5	8.8	55.0	14.8	6.3	2.00	0.146
8-H03-10.SHER	10	26.0	12.0	95.0	68.0	11.5	69.0	17.8	8.1	3.15	0.30
8-H03-13.SHER	13	30.0	15.0	117.0	87.0	15.0	86.6	25.0	10.3	5.30	0.63
8-H03-16.SHER	16	35.0	19.8	148.0	104.0	19.8	103.0	30.0	12.3	8.00	1.24
8-H03-20.SHER	20	41.8	24.0	169.5	121.5	22.0	120.0	34.0	15.3	12.50	2.10
8-H03-22.SHER	22	49.5	26.0	193.5	137.0	26.0	147.0	40.0	17.3	15.00	3.10
8-H03-26.SHER	26	58.0	31.0	220.0	158.0	30.0	174.0	44.0	20.5	21.20	4.50
8-H03-32.SHER	32	67.5	38.0	274.5	197.0	37.0	208.0	56.0	24.5	31.50	9.00

Imperial Specifications

Part Code	Chain Size inch	A inch	B inch	C inch	D inch	E inch	F inch	G inch	H inch	WLL lbs	Mass lbs
8-H03-08.SHER	1/4 - 5/16	0.80	0.35	3.12	2.38	0.34	2.16	0.58	0.24	4500	0.32
8-H03-10.SHER	3/8	1.02	0.47	3.74	2.67	0.45	2.71	0.70	0.31	7100	0.66
8-H03-13.SHER	1/2	1.18	0.59	4.60	3.42	0.59	3.40	0.98	0.40	12000	1.38
8-H03-16.SHER	5/8	1.37	0.77	5.82	4.09	0.77	4.05	1.18	0.48	18100	2.73
8-H03-20.SHER	3/4	1.64	0.94	6.67	4.78	0.86	4.72	1.33	0.60	28300	4.62
8-H03-22.SHER	7/8	1.94	1.02	7.67	5.39	1.02	5.78	1.57	0.68	34200	6.83
8-H03-26.SHER	1	2.28	1.22	8.66	6.22	1.18	6.85	1.73	0.80	47700	9.92
8-H03-32.SHER	1-1/4	2.65	1.49	10.80	7.75	1.45	8.19	2.20	0.96	72300	19.84

Marine Grade 8 Lifting Chain

William Hackett marine grade 8 lifting chain has been specifically designed for the most extreme lifting environments, including offshore applications where there is a heightened risk of hydrogen embrittlement and stress corrosion cracking. Marine grade 8 lifting chain derives its anti-corrosive qualities from Zinc-Tough® treatment, giving improved toughness and ductility. This product also benefits from the following features:

DNV type approvals: based on DNV Type Approval No. TAS0000336 Rev. 2 and used in DNV type approved welded chain sling assemblies (DNV Type Approval No. TAS00001RH Rev. 5).

Product sizes: available in chain diameters from 7mm up to 32mm and working load limits from 1.6 tonnes to 31.5 tonnes.

Temperature range: - 50°C to + 200°C without reduction in WLL.

Material & hardness: manufactured from grade 8 triple alloy steel, with a maximum hardness of 38 HRC, giving outstanding toughness qualities.

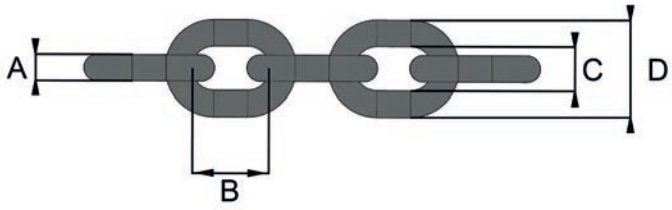
Average impact energy (Charpy): 42 Joules minimum impact resistance at - 20°C.

Surface finish: Zinc-Tough® surface treatment.

Testing: proof load tested to 2.5 times working load limit.

Safety factor: 4 : 1.

TYPE APPROVAL
DNV
DNVGL-ST-E271 - DNVGL-ST-E273
LIFTING SET COMPONENTS



Metric Specifications

Part Code	Chain Size A mm Nominal	Pitch B mm	C mm	WLL t	Mass kg
AS1.070.5.OS	7.0	21.0	9.1	1.6	1.14
AS1.080.5.OS	8.0	24.0	10.0	2.0	1.51
AS1.100.5.OS	10.0	30.0	13.0	3.2	2.39
AS1.130.5.OS	13.0	39.0	16.9	5.3	4.05
AS1.160.5.OS	16.0	48.0	20.8	8.2	6.05
AS1.200.5.OS	20.0	60.0	26.0	12.8	9.76
AS1.220.5.OS	22.0	66.0	28.6	15.5	11.70
AS1.260.5.OS	26.0	78.0	33.8	21.6	16.12
AS1.320.5.OS	32.0	96.0	41.6	32.8	24.80

Imperial Specifications

Part Code	Chain Size A inch	Pitch B inch	C inch	WLL lbs	Mass lbs/m
AS1.070.5.OS	1/4	13/16	3/8	3,527	2.51
AS1.080.5.OS	5/16	15/16	25/64	4,409	3.32
AS1.100.5.OS	3/8	1-3/16	17/32	7,054	5.26
AS1.130.5.OS	1/2	1-17/32	21/32	11,684	8.90
AS1.160.5.OS	5/8	1-7/8	13/16	17,637	13.30
AS1.200.5.OS	3/4	2-3/8	1-1/32	27,557	21.60
AS1.220.5.OS	7/8	2-19/32	1-1/8	33,069	25.90
AS1.260.5.OS	1	3-1/16	1-11/32	46,738	33.20
AS1.320.5.OS	1-1/4	3-25/32	1-5/8	69,445	50.20

Hack8 Eye Self Locking Hook

The Hack8 eye self locking hook incorporates a special latch mechanism that locks itself automatically when it comes under load. Manual interaction of the latch trigger then allows disengagement of the locking mechanism once the load is relieved. It also features an eye attachment type, making it suitable for use in both chain and wire rope assemblies. Manufactured from alloy steel, the Hack8 eye self locking hook delivers an excellent balance between toughness and ductility.

Standards: designed and manufactured in accordance with EN1677-1 and suitable for use in chain slings certified to EN818-4.

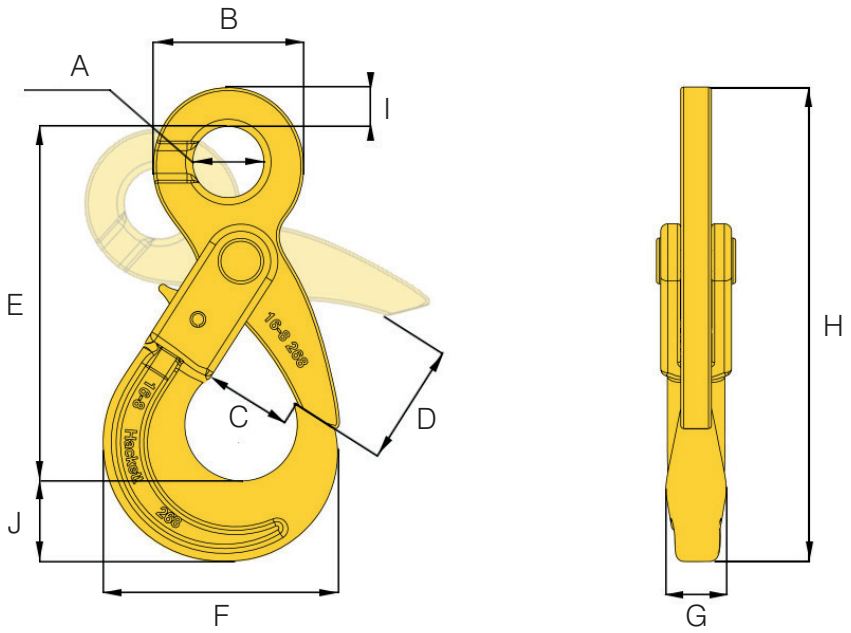
Product sizes: available for chain sizes from 7/8mm to 32mm and with working load limits from 2.0 tonnes to 31.5 tonnes.

Temperature: operational temperature range of - 40°C to + 200°C without reduction in working load limit.

Material: alloy steel.

Testing: crack detection following heat treatment, and proof load tested to 2.5 times working load limit.

Safety factor: 4 : 1.



Metric Specifications

Part Code	Chain Size mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	Box Qty.	WLL t	Mass kg
8-H13-08	7/8	25.0	51.0	35.0	40.0	136.0	91.0	20.0	175.0	13.0	26.0	25	2.00	0.88
8-H13-10	10	34.5	64.5	45.0	50.0	168.0	108.0	26.0	214.0	15.0	30.0	14	3.15	1.42
8-H13-13	13	40.0	82.0	52.5	60.0	207.0	142.0	33.0	268.0	21.0	40.0	6	5.30	3.00
8-H13-16	16	50.0	104.5	63.3	65.0	254.0	168.6	38.0	328.0	27.0	50.5	3	8.00	5.90
8-H13-20	20	64.5	122.5	86.0	80.0	274.5	185.0	50.0	360.0	27.0	55.0	2	12.50	7.80
8-H13-22	22	70.0	135.0	76.0	83.0	319.0	202.0	52.0	415.0	32.0	67.0	2	15.00	12.30
8-H13-26	26	80.0	153.0	96.0	109.0	362.0	239.0	60.0	472.0	34.0	75.0	1	21.20	18.00
8-H13-32	32	105.0	195.0	133.0	140.0	470.0	329.0	79.5	614.0	45.0	97.0	1	31.50	44.00

Imperial Specifications

Part Code	Chain Size inch	A inch	B inch	C inch	D inch	E inch	F inch	G inch	H inch	I inch	J inch	Box Qty.	WLL lbs	Mass lbs
8-H13-08	1/4 - 5/16	0.98	2.01	1.38	1.57	5.35	3.58	0.79	6.89	0.51	1.02	25	4500	1.94
8-H13-10	3/8	1.36	2.54	1.77	1.97	6.61	4.25	1.02	8.43	0.59	1.18	14	7100	3.13
8-H13-13	1/2	1.57	3.23	2.07	2.36	8.15	5.59	1.30	10.55	0.83	1.57	6	12000	6.61
8-H13-16	5/8	1.97	4.11	2.49	2.56	10.00	6.64	1.50	12.91	1.06	1.99	3	18100	13.01
8-H13-20	3/4	2.54	4.82	3.39	3.15	10.81	7.28	1.97	14.17	1.06	2.17	2	28300	17.20
8-H13-22	7/8	2.76	5.31	2.99	3.27	12.56	7.95	2.05	16.34	1.26	2.64	2	34200	27.12
8-H13-26	1	3.15	6.02	3.78	4.29	14.25	9.41	2.36	18.58	1.34	2.95	1	47700	39.68
8-H13-32	1-1/4	4.13	7.68	5.24	5.51	18.50	12.95	3.13	24.17	1.77	3.82	1	72300	97.00

Hack8 Swivel Self Locking Hook

Hack8 Swivel Self Locking Hook

The Hack8 swivel self locking hook incorporates a special latch mechanism that locks itself automatically when it comes under load. Manual interaction of the latch trigger then allows disengagement of the locking mechanism once the load is relieved. It is also fitted with a ball bearing swivel attachment type which allows rotational movement of the hook, even when under load. As a result, this hook is commonly incorporated into single leg slings for use with crane pendant wires. Manufactured from alloy steel, the Hack8 swivel self locking hook delivers an excellent balance between toughness and ductility.

Standards: designed and manufactured in accordance with EN1677-1 and suitable for use in chain slings certified to EN818-4.

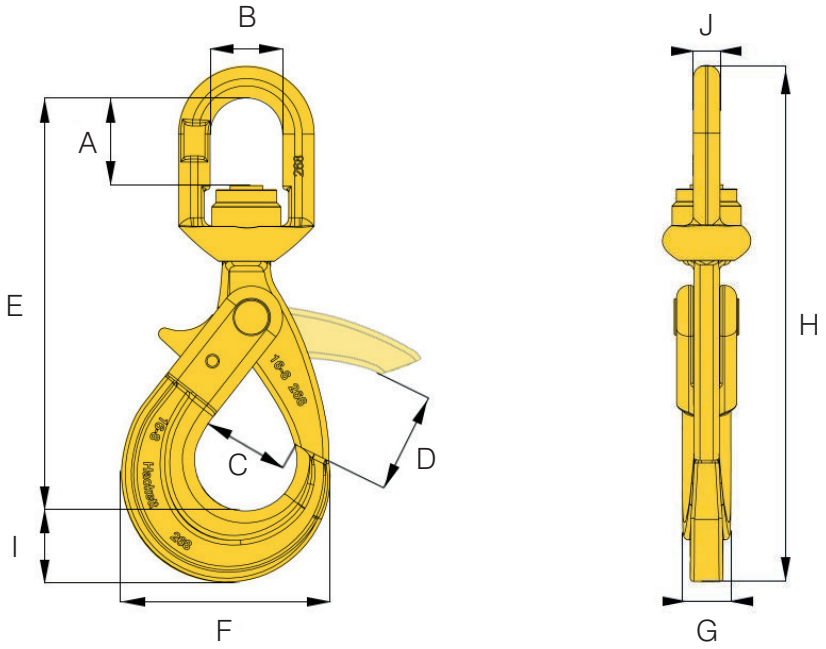
Product sizes: available for chain sizes from 7/8mm to 26mm and with working load limits from 2.0 tonnes to 21.20 tonnes.

Temperature: operational temperature range of - 40°C to + 200°C without reduction in working load limit.

Material: alloy steel.

Testing: crack detection following heat treatment, and proof load tested to 2.5 times working load limit.

Safety factor: 4 : 1.



Metric Specifications

Part Code	Chain Size mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	Box Qty.	WLL tonnes	Mass kg
8-H14-08	7/8	40.0	36.0	35.0	40.0	202.0	91.0	20.0	240.0	26.0	13.0	15	2.00	1.10
8-H14-10	10	49.0	42.0	45.0	48.0	237.0	108.0	26.0	283.0	31.0	15.5	8	3.15	2.00
8-H14-13	13	58.0	50.0	52.5	57.0	282.0	142.0	33.0	343.0	40.0	17.0	6	5.30	4.00
8-H14-16	16	60.0	61.0	63.0	65.0	341.5	168.6	38.0	419.0	50.0	21.5	3	8.00	7.30
8-H14-20	20	73.0	76.0	82.0	82.0	399.5	185.0	50.0	483.0	58.0	26.5	2	12.50	11.60
8-H14-22	22	97.0	97.0	76.0	80.0	466.0	202.0	52.0	564.0	67.0	33.0	1	15.00	16.00
8-H14-26	26	115.0	123.0	96.0	109.0	544.0	239.0	60.0	661.0	75.0	42.0	1	21.20	21.50

Imperial Specifications

Part Code	Chain Size inch	A inch	B inch	C inch	D inch	E inch	F inch	G inch	H inch	I inch	J inch	Box Qty.	WLL lbs	Mass lbs
8-H14-08	1/4 - 5/16	1.57	1.42	1.38	1.57	7.95	3.58	0.79	9.45	1.02	0.51	15	4500	2.43
8-H14-10	3/8	1.93	1.65	1.77	1.89	9.33	4.25	1.02	11.14	1.22	0.61	8	7100	4.41
8-H14-13	1/2	2.28	1.97	2.07	2.24	11.10	5.59	1.30	13.50	1.57	0.67	6	12000	8.82
8-H14-16	5/8	2.36	2.40	2.48	2.56	13.44	6.64	1.50	16.50	1.97	0.85	3	18100	16.09
8-H14-20	3/4	2.87	2.99	3.23	3.23	15.73	7.28	1.97	19.02	2.28	1.04	2	28300	25.57
8-H14-22	7/8	3.82	3.82	2.99	3.15	18.35	7.95	2.05	22.20	2.64	1.30	1	34200	35.27
8-H14-26	1	4.53	4.84	3.78	4.29	21.42	9.41	2.36	26.02	2.95	1.65	1	47700	47.40

HA Lifting Point (Metric)

The HA lifting point (metric) is a bolt-on load attachment product designed for use with loads that incorporate tapped holes. It can rotate 360° around the bolt axis, as well as pivot 90°, allowing the lifting point to orientate to the appropriate angle of lift, mitigating the risk of damage. The HA lifting point (metric) is suitable for both top and side mounting, and maintains its full working load limit even when pulled at 90°.

Standards: designed and manufactured in accordance with EN1677-1 and ASME B30.26.

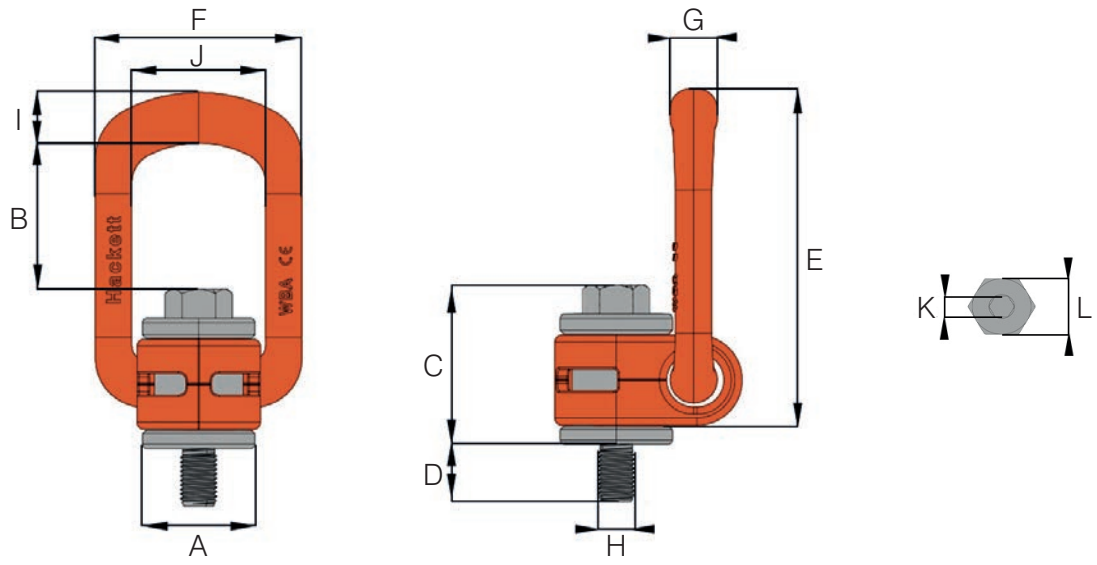
Product sizes: available in sizes M8 to M48 and with working load limits from 0.3 tonnes to 20.0 tonnes.

Product markings: forged bail marked with manufacturer name “Hackett” and batch number for product material traceability. Body marked with working load limit (based on 4 : 1 safety factor) and batch number. Bolt marked with metric size, material grade, working load limit (based on 4 : 1 safety factor), and batch number for bolt material traceability.

Temperature: operational temperature range of - 40°C to + 200°C without reduction in working load limit.

Material: alloy steel.

Testing: load rated parts are subject to 100% magnaflux crack detection following heat treatment. HA lifting points are proof tested to 2.5 times working load limit, and fatigue rated to 20,000 cycles at 1.5 times working load limit.



Metric Specifications

Part Code	WLL t	Thread M	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	L mm	Torque Nm	Mass kg
8-H17-M08G	0.3	M8	31	43	42	11	98.5	57	13	8	14	37	6	13	25	0.5
8-H17-M10G	0.63	M10	31	41	44	16	98.5	57	13	10	14	37	6	16	30	0.5
8-H17-M12G	1.0	M12	31	40	45	18	98.5	57	13	12	14	37	8	18	35	0.5
8-H17-M16G	1.5	M16	31	37	48	24	98.5	57	13	16	14	37	10	24	80	0.5
8-H17-M20G	2.5	M20	45	68	58	30	143	82	16	20	16	54	12	30	150	1.5
8-H17-M24G	4.0	M24	45	65	61	36	143	82	16	24	16.5	54	14	36	260	1.5
8-H17-M30G	5.0	M30	59	66	82	48	170	99	22	30	22	65	17	46	400	3.5
8-H17-M36G	8.0	M36	69	95	104	62	226.5	123	27.5	36	27	85	22	55	550	6.0
8-H17-M42G	15.0	M42	98	104.5	117	63	257.5	158	36	42	36	104	22	65	650	11.0
8-H17-M48G	20.0	M48	98	101.5	120	72	257.5	158	36	48	36	104	27	75	700	12.0

HA Lifting Point (UNC)

The HA lifting point (UNC) is a bolt-on load attachment product designed for use with loads that incorporate tapped holes. It can rotate 360° around the bolt axis, as well as pivot 90°, allowing the lifting point to orientate to the appropriate angle of lift, mitigating the risk of damage. The HA lifting point (UNC) is suitable for both top and side mounting, and maintains its full working load limit even when pulled at 90°.

Standards: designed and manufactured in accordance with EN1677-1 and ASME B30.26.

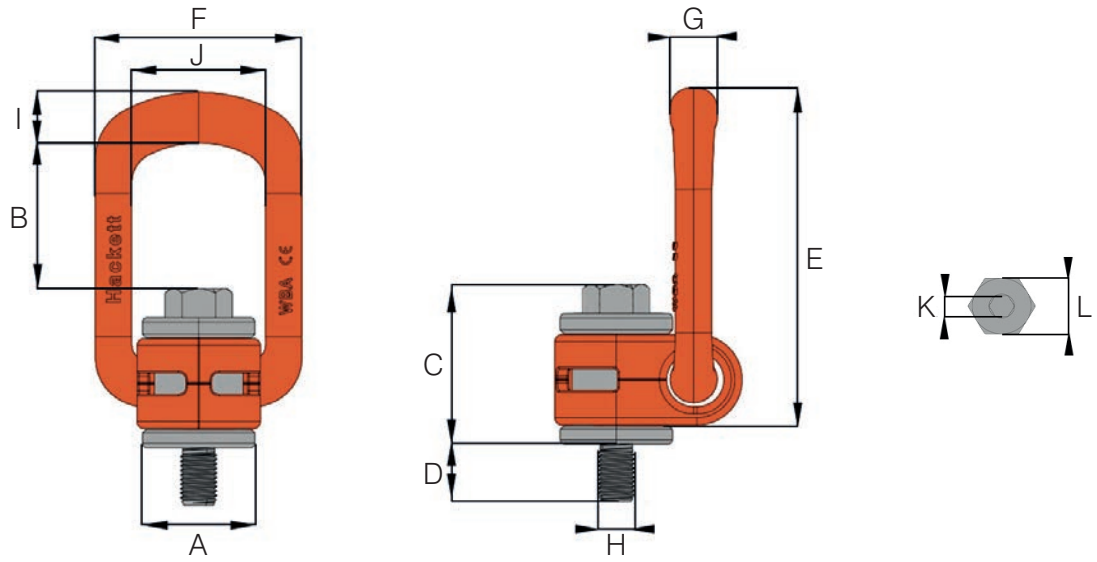
Product sizes: available in sizes 3/8” to 2” and with working load limits from 0.63 tonnes to 20.0 tonnes.

Product markings: forged bail marked with manufacturer name “Hackett” and batch number for product material traceability. Body marked with working load limit in tonnes (based on 4 : 1 safety factor) and batch number. Bolt marked with UNC size, material grade, working load limit in tonnes (based on 4 : 1 safety factor), and batch number for bolt material traceability.

Temperature: operational temperature range of - 40°C to + 200°C without reduction in working load limit.

Material: alloy steel.

Testing: load rated parts are subject to 100% magnaflux crack detection following heat treatment. HA lifting points are proof tested to 2.5 times working load limit, and fatigue rated to 20,000 cycles at 1.5 times working load limit.



Imperial Specifications

Part Code	WLL t	Thread inch	A inch	B inch	C inch	D inch	E inch	F inch	G inch	H inch	I inch	J inch	K inch	L inch	Torque Nm	Mass lbs
8-H17-UNC10G	0.63	3/8”	1.22	1.65	1.69	0.63	3.88	2.24	0.51	0.38	0.55	1.46	0.24	0.63	25	1.10
8-H17-UNC12G	1.0	1/2”	1.22	1.57	1.77	0.83	3.88	2.24	0.51	0.50	0.55	1.46	0.31	0.71	30	1.10
8-H17-UNC16G	1.5	5/8”	1.22	1.46	1.89	0.94	3.88	2.24	0.51	0.63	0.55	1.46	0.39	0.94	35	1.10
8-H17-UNC20G	2.5	3/4”	1.77	2.68	2.28	1.02	5.63	3.23	0.63	0.75	0.65	2.13	0.47	1.18	80	3.31
8-H17-UNC22G	2.5	7/8”	1.77	2.56	2.40	1.02	5.63	3.23	0.63	0.88	0.65	2.13	0.55	1.42	150	3.31
8-H17-UNC26G	4.0	1”	1.77	2.56	2.40	1.42	5.63	3.23	0.63	1.00	0.65	2.13	0.55	1.42	260	3.31
8-H17-UNC32G	5.0	1-1/4”	2.32	2.83	3.15	1.89	6.69	3.90	0.87	1.25	0.87	2.56	0.67	1.81	450	7.72
8-H17-UNC36G	8.0	1-1/2”	2.72	3.74	4.09	2.44	8.92	4.84	1.08	1.50	1.06	3.35	0.87	2.17	550	13.23
8-H17-UNC42G	15.0	1-3/4”	3.86	4.19	4.57	2.48	10.14	6.22	1.42	1.75	1.42	4.09	0.87	2.56	650	24.25
8-H17-UNC48G	20.0	2”	3.86	4.49	4.25	2.83	10.14	6.22	1.42	2.00	1.42	4.09	1.06	2.95	700	26.46

HA Swivel Hoist Ring (Metric)

The HA swivel hoist ring (metric) is a bolt-on load attachment product designed for use with loads that incorporate tapped holes. It can rotate 360° around the bolt axis, as well as pivot 180°, allowing the hoist ring to orientate to the appropriate angle of lift, mitigating the risk of damage. The HA swivel hoist ring (metric) is suitable for both top and side mounting, and maintains its full working load limit even when pulled at 90°.

Standards: designed and manufactured in accordance with EN1677-1 and ASME B30.26.

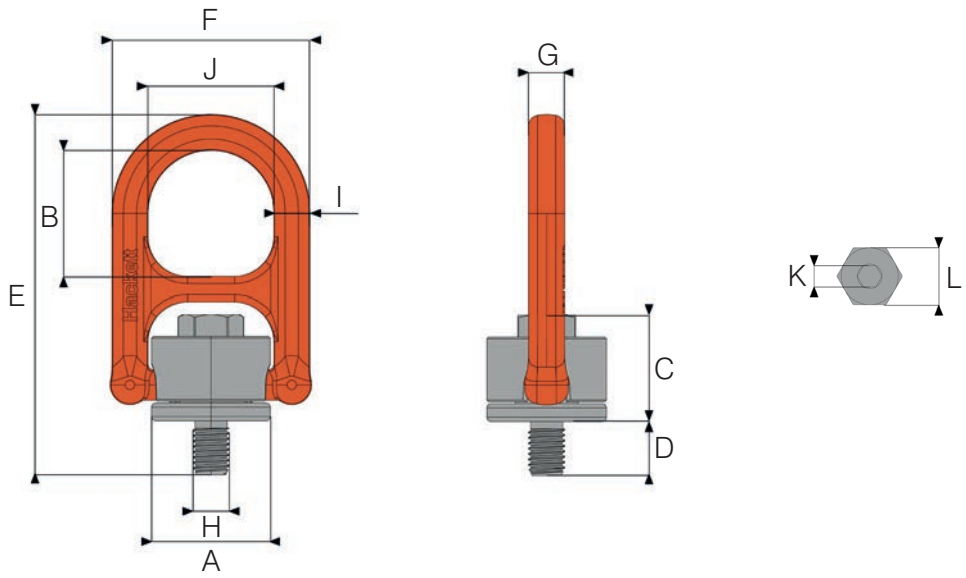
Product sizes: available in sizes M8 to M64 and with working load limits from 0.5 tonnes to 22.5 tonnes.

Product markings: forged bail marked with manufacturer name “Hackett” and batch number for product material traceability. Body marked with recommended torque rating and working load limits (based on 4 : 1 and 5 : 1 safety factors). Bolt marked with metric size, “HA” branding, and batch number for bolt material traceability.

Temperature: operational temperature range of - 40°C to + 200°C without reduction in working load limit.

Material: alloy steel.

Testing: load rated parts are subject to 100% magnaflux crack detection following heat treatment. HA swivel hoist rings are proof tested to 2.5 times working load limit, and fatigue rated to 20,000 cycles at 1.5 times working load limit.



Metric Specifications

Part Code	WLL t	Thread M	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	L mm	Torque Nm	Mass kg
8-H20-M8G	0.5	M8	33	35	30	12	97	55	10	8	10	35	6	16	30	0.3
8-H20-M10G	0.7	M10	33	35	30	15	100	55	10	10	10	35	6	16	60	0.3
8-H20-M12G	1.0	M12	33	35	30	20	105	55	10	12	10	35	6	16	100	0.3
8-H20-M16G	2.0	M16	50	55	47	24	155	82	13	16	14	54	10	24	150	1.0
8-H20-M20G	3.0	M20	65	66	58.5	30	193	105	16	20	18	69	12	30	250	2.0
8-H20-M24G	5.0	M24	65	66	58.5	36	199	105	16	24	18	69	14	36	400	2.1
8-H20-M30G	7.8	M30	87	80	82.5	48	266	145	25	30	27	91	17	46	500	5.7
8-H20-M36G	12.5	M36	110	100	94	56	311	186	33	36	36	88	19	70	800	11.9
8-H20-M42G	15.6	M42	110	100	98	63	318	186	33	42	36	88	19	70	800	12.0
8-H20-M48G	20.0	M48	110	100	98	72	327	186	33	48	36	88	19	70	800	12.3
8-H20-M56G	22.0	M56	123	110	110	84	363	199	35	56	36	97	19	80	800	16.4
8-H20-M64G	22.5	M64	123	110	110	95	374	199	35	64	36	97	19	80	800	17.1

HA Swivel Hoist Ring (UNC)

The HA swivel hoist ring (UNC) is a bolt-on load attachment product designed for use with loads that incorporate tapped holes. It can rotate 360° around the bolt axis, as well as pivot 180°, allowing the hoist ring to orientate to the appropriate angle of lift, mitigating the risk of damage. The HA swivel hoist ring (UNC) is suitable for both top and side mounting, and maintains its full working load limit even when pulled at 90°.

Standards: designed and manufactured in accordance with EN1677-1 and ASME B30.26.

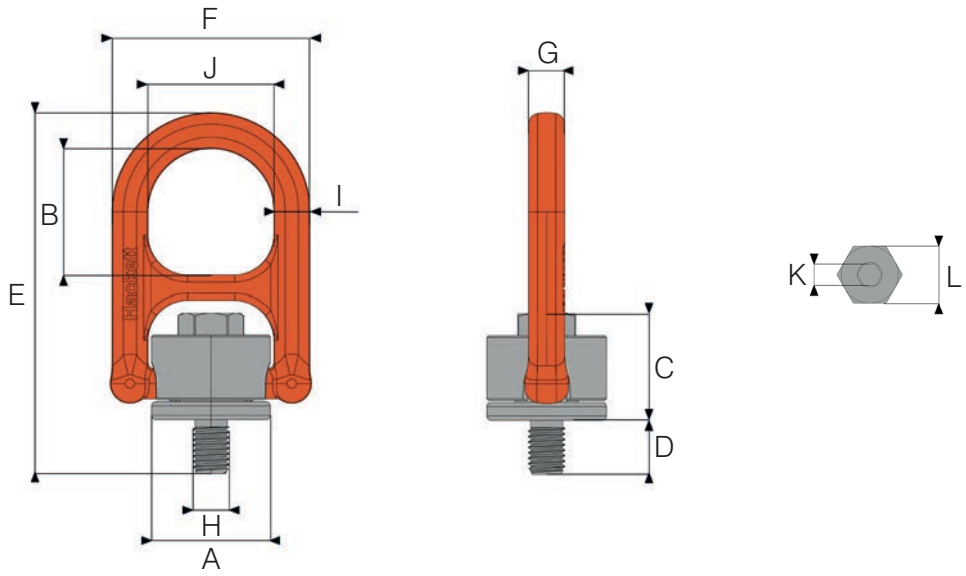
Product sizes: available in sizes 1/2” to 2-1/2” and with working load limits from 2200 lbs to 49500 lbs.

Product markings: forged bail marked with manufacturer name “Hackett” and batch number for product material traceability. Body marked with recommended torque rating and working load limits in lbs (based on 4 : 1 and 5 : 1 safety factors). Bolt marked with UNC size, material grade, “HA” branding, and batch number for bolt material traceability.

Temperature: operational temperature range of - 40°C to + 200°C without reduction in working load limit.

Material: alloy steel.

Testing: load rated parts are subject to 100% magnaflux crack detection following heat treatment. HA swivel hoist rings are proof tested to 2.5 times working load limit, and fatigue rated to 20,000 cycles at 1.5 times working load limit.



Imperial Specifications

Part Code	WLL lbs	Thread inch	A inch	B inch	C inch	D inch	E inch	F inch	G inch	H inch	I inch	J inch	K inch	L inch	Torque Nm	Mass lbs
8-H20-UNC12G	2200	1/2”	1.97	2.17	1.85	0.79	5.94	3.23	0.51	0.50	0.55	2.13	0.39	0.94	100	2.20
8-H20-UNC16G	4400	5/8”	1.97	2.17	1.85	0.94	6.10	3.23	0.51	0.62	0.55	2.13	0.39	0.94	150	2.20
8-H20-UNC20G	6600	3/4”	2.56	2.60	2.30	1.18	7.60	4.13	0.63	0.75	0.71	2.72	0.47	1.18	250	4.41
8-H20-UNC22G	8250	7/8”	2.56	2.60	2.30	1.42	7.83	4.13	0.63	0.88	0.71	2.72	0.55	1.42	300	4.63
8-H20-UNC26G	11000	1”	2.56	2.60	2.30	1.42	7.83	4.13	0.63	1.00	0.71	2.72	0.55	1.42	420	4.63
8-H20-UNC32G	17200	1-1/4”	3.43	3.15	3.25	1.89	10.49	5.71	0.98	1.25	1.06	3.58	0.67	1.81	500	13.23
8-H20-UNC36G	27500	1-1/2”	4.33	3.94	3.70	2.44	12.48	7.32	1.30	1.50	1.42	3.46	0.75	2.76	800	26.46
8-H20-UNC48G	44000	2”	4.33	3.94	3.86	2.99	13.03	7.32	1.30	2.00	1.89	3.46	0.75	2.76	800	27.34
8-H20-UNC56G	48400	2-1/4”	4.84	4.33	4.33	3.31	14.29	7.83	1.38	2.25	2.20	3.82	0.75	3.15	800	36.38
8-H20-UNC64G	49500	2-1/2”	4.84	4.33	4.33	3.74	14.72	7.83	1.38	2.50	2.52	3.82	0.75	3.15	800	37.48

HA Offshore Swivel Hoist Ring (Metric)

The HA offshore swivel hoist ring (metric) is a bolt-on load attachment product specifically designed for the lifting and handling of loads in extreme, corrosive environments. It can rotate 360° around the bolt axis, as well as pivot 180°, allowing the hoist ring to orientate to the appropriate angle of lift, mitigating the risk of damage. The HA offshore swivel hoist ring (metric) is suitable for both top and side mounting, and maintains its full working load limit even when pulled at 90°.

Standards: designed and manufactured in accordance with EN1677-1, ASME B30.26 and NORSOK R-002. L7 bolts manufactured in accordance with ASTM320/A320. Sherardised in accordance with BSEN ISO 17668:2016.

Product sizes: available in sizes M12 to M64 with working load limits from 1.0 tonnes to 20.25 tonnes.

Material and hardness: all load bearing components are manufactured from alloy steel, quenched and tempered. The swivel hoist ring body and bail feature a maximum hardness range of 35 - 40 HRC, whilst the L7 bolts feature a maximum material hardness of 32 HRC.

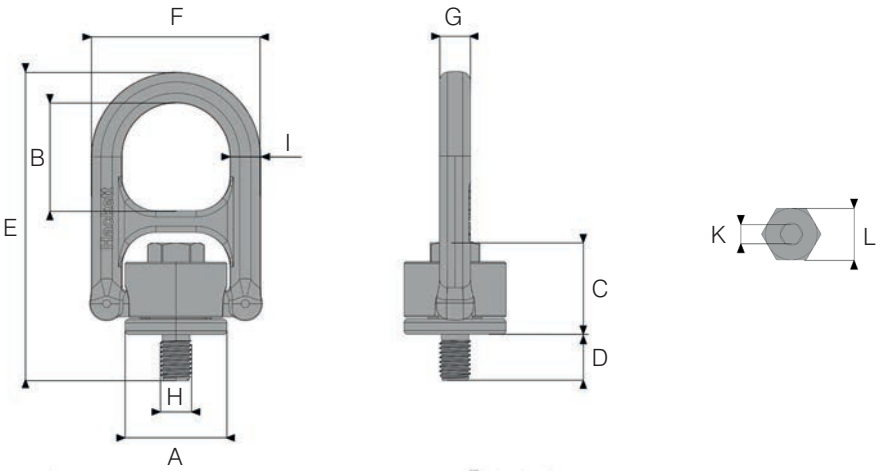
Zinc sherardised: the swivel hoist ring body, bail, and L7 bolt are zinc sherardised, delivering optimal corrosion resistance.

Temperature: operational temperature range of -40°C to +200°C without reduction in working load limit.

Testing: load rated parts are subject to 100% magnaflux crack detection following heat treatment. HA offshore swivel hoist rings are proof tested to 2.5 times working load limit, and fatigue rated to 20,000 cycles at 1.5 times working load limit.

Average impact energy (Charpy): 27 Joules minimum impact resistance at -101°C (for L7 bolts) and 42 Joules minimum impact resistance at -20°C (for swivel hoist ring body and bail).

Safety factor: 4 : 1.



Metric Specifications

Part Code	WLL t	Thread M	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	L mm	Torque Nm	Mass kg
OS-H20-M12G	1.0	M12	50	55	47.0	20	131	82	13	12	14	54	6	16	100	1.0
OS-H20-M16G	1.8	M16	65	66	58.5	30	193	105	18	16	14	54	10	24	150	1.0
OS-H20-M20G	2.7	M20	65	66	58.5	36	199	105	18	20	18	69	12	30	250	2.0
OS-H20-M24G	4.5	M24	65	66	58.5	36	199	105	18	24	18	69	14	36	400	2.1
OS-H20-M30G	7.0	M30	87	80	82.5	48	266	145	25	30	27	91	17	46	500	5.7
OS-H20-M36G	11.25	M36	110	100	97.5	63	318	186	33	36	36	88	19	70	800	11.9
OS-H20-M42G	14.2	M42	110	100	97.5	63	318	186	33	42	36	88	19	70	800	12.0
OS-H20-M48G	18.0	M48	110	100	97.5	72	327	186	33	48	36	88	19	70	800	12.3
OS-H20-M56G	19.8	M56	123	110	112.0	84	363	199	35	56	36	97	19	80	800	16.4
OS-H20-M64G	20.25	M64	123	110	112.0	95	374	199	35	64	36	97	19	80	800	17.1

HA Offshore Swivel Hoist Ring (UNC)

The HA offshore swivel hoist ring (UNC) is a bolt-on load attachment product specifically designed for the lifting and handling of loads in extreme, corrosive environments. It can rotate 360° around the bolt axis, as well as pivot 180°, allowing the hoist ring to orientate to the appropriate angle of lift, mitigating the risk of damage. The HA offshore swivel hoist ring (UNC) is suitable for both top and side mounting, and maintains its full working load limit even when pulled at 90°.

Standards: designed and manufactured in accordance with EN1677-1, ASME B30.26 and NORSOK R-002. L7 bolts manufactured in accordance with ASTM320/A320. Sherardised in accordance with BSEN ISO 17668:2016.

Product sizes: available in sizes 1/2” to 2-1/2” with working load limits from 2200 lbs to 44550 lbs.

Material and hardness: all load bearing components are manufactured from alloy steel, quenched and tempered. The swivel hoist ring body and bail feature a maximum hardness range of 35 - 40 HRC, whilst the L7 bolts feature a maximum material hardness of 32 HRC.

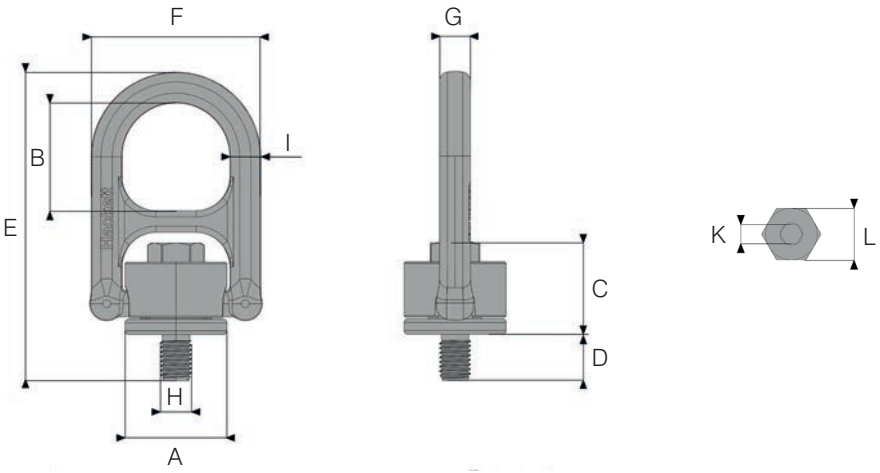
Zinc sherardised: the swivel hoist ring body, bail, and L7 bolt are zinc sherardised, delivering optimal corrosion resistance.

Temperature: operational temperature range of -40°C to +200°C without reduction in working load limit.

Testing: load rated parts are subject to 100% magnaflux crack detection following heat treatment. HA offshore swivel hoist rings are proof tested to 2.5 times working load limit, and fatigue rated to 20,000 cycles at 1.5 times working load limit.

Average impact energy (Charpy): 27 Joules minimum impact resistance at -101°C (for L7 bolts) and 42 Joules minimum impact resistance at -20°C (for swivel hoist ring body and bail).

Safety factor: 4 : 1.



Imperial Specifications

Part Code	WLL lbs	Thread inch	A inch	B inch	C inch	D inch	E inch	F inch	G inch	H inch	I inch	J inch	K inch	L inch	Torque Nm	Mass lbs
OS-H20-UNC12G	2200	1/2”	1.97	2.17	1.85	0.79	5.16	3.23	0.51	0.50	0.55	2.13	0.39	0.94	100	2.20
OS-H20-UNC16G	3960	5/8”	1.97	2.17	1.85	0.94	6.10	3.23	0.51	0.62	0.55	2.13	0.39	0.94	150	2.20
OS-H20-UNC20G	5940	3/4”	2.56	2.60	2.30	1.18	7.60	4.13	0.63	0.75	0.71	2.72	0.47	1.18	250	4.41
OS-H20-UNC22G	7425	7/8”	2.56	2.60	2.30	1.42	7.83	4.13	0.63	0.88	0.71	2.72	0.55	1.42	300	4.63
OS-H20-UNC26G	9900	1”	2.56	2.60	2.30	1.42	7.83	4.13	0.63	1.00	0.71	2.72	0.55	1.42	400	4.63
OS-H20-UNC32G	15480	1-1/4”	3.43	3.15	3.25	1.89	10.49	5.71	0.98	1.25	1.06	3.58	0.67	1.81	500	13.23
OS-H20-UNC36G	24750	1-1/2”	4.33	3.94	3.70	2.44	12.58	7.32	1.30	1.50	1.06	3.46	0.75	2.76	800	26.46
OS-H20-UNC48G	39680	2”	4.33	3.94	3.86	2.99	13.03	7.32	1.30	2.00	1.89	3.46	0.75	2.76	800	27.34
OS-H20-UNC56G	43560	2-1/4”	4.84	4.33	4.33	3.31	14.29	7.83	1.38	2.25	2.20	3.82	0.75	3.15	800	36.38
OS-H20-UNC64G	44550	2-1/2”	4.48	4.33	4.33	3.74	14.72	7.83	1.38	2.50	2.52	3.82	0.75	3.15	800	37.48

HA Universal Lifting Point (Metric)

The HA universal swivel point (metric) is a bolt-on load attachment product designed for use with loads that incorporate tapped holes. It is fitted with internal ball bearings, enabling smooth rotation 360° around the bolt axis, even whilst under load. It also features an independent connecting link which can pivot 230°. This allows the lifting point to orientate to the appropriate angle of lift, mitigating the risk of damage. The HA universal swivel point (metric) is suitable for both top and side mounting, and maintains its full working load limit even when pulled at 90°.

Standards: designed and manufactured in accordance with EN1677-1 and ASME B30.26.

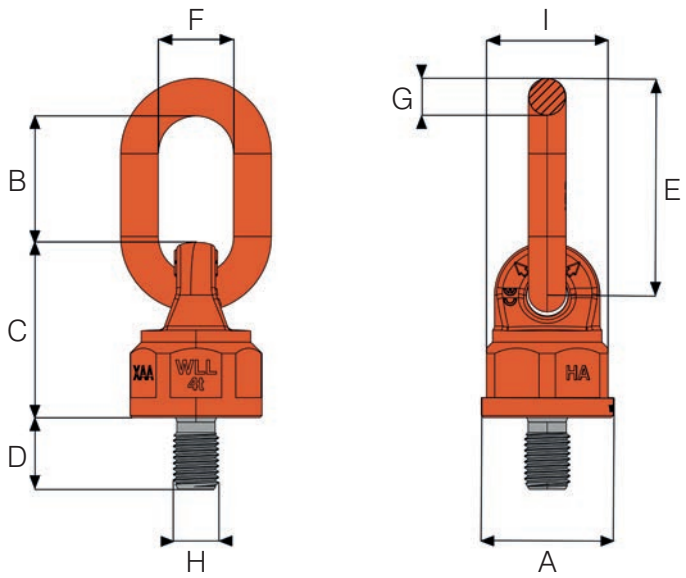
Product sizes: available in sizes M8 to M64 and with working load limits from 0.4 tonnes to 20.0 tonnes.

Product markings: body marked with manufacture mark “HA”, batch number for product material traceability, thread size, and working load limit (based on 4 : 1 safety factor). Connecting link marked with batch code for product material traceability.

Temperature: operational temperature range of - 40°C to + 200°C without reduction in working load limit.

Material: alloy steel.

Testing: load rated parts are subject to 100% magnaflux crack detection following heat treatment. HA universal swivel points are proof tested to 2.5 times working load limit, and fatigue rates to 1.5 times working load limit.



Metric Specifications

Part Code	WLL t	Thread M	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Torque Nm	Mass kg
8-H21-M08	0.4	M8	40.0	43.5	54.0	12.0	70.5	30.0	12.0	8.0	37.0	15	0.44
8-H21-M10	0.6	M10	40.0	43.5	54.0	19.0	70.5	30.0	12.0	10.0	37.0	15	0.45
8-H21-M12	0.7	M12	40.0	43.5	54.0	19.0	70.5	30.0	12.0	12.0	37.0	20	0.45
8-H21-M16	1.5	M16	40.0	43.5	54.0	31.8	70.5	30.0	12.0	16.0	37.0	55	0.45
8-H21-M20	2.5	M20	70.0	67.0	93.0	38.1	114.0	40.0	20.0	20.0	64.5	120	2.30
8-H21-M24	4.0	M24	70.0	67.0	93.0	38.1	114.0	40.0	20.0	24.0	64.5	200	2.35
8-H21-M30	6.0	M30	79.0	95.0	111.0	50.0	148.0	51.0	22.0	30.0	74.0	350	3.75
8-H21-M36	10.0	M36	79.0	95.0	111.0	54.0	148.0	51.0	22.0	36.0	74.0	410	3.90
8-H21-M42	13.0	M42	93.0	108.0	122.5	63.0	169.0	65.0	26.0	42.0	85.0	550	5.90
8-H21-M48	14.0	M48	93.0	108.0	122.5	68.0	169.0	65.0	26.0	48.0	85.0	550	6.15
8-H21-M56	20.0	M56	105.0	120.0	158.0	84.0	194.0	70.0	32.0	56.0	95.0	700	10.00
8-H21-M64	20.0	M64	105.0	120.0	158.0	95.0	194.0	70.0	32.0	64.0	95.0	800	10.70

HA Key Eye Point

The HA key eye point is a bolt-on load attachment product designed for use with loads that incorporate tapped holes. It can rotate 360° around the bolt axis, allowing the key eye point to adjust to the direction of the load. It features a locking key which can be used to fix the orientation of the eye point by anchoring it to the bolt. The HA key eye point is suitable for top mounting, as well as side mounting providing that the working load limit is derated.

Standards: designed and manufactured in accordance with EN1677-1 and ASME B30.26.

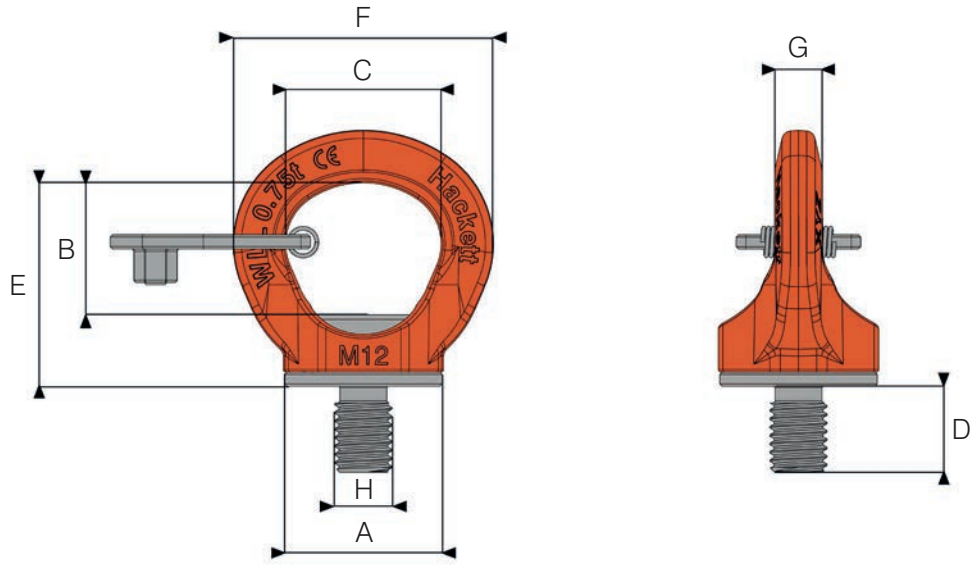
Product sizes: available in sizes M8 to M48 and with working load limits from 0.8 tonnes to 32.0 tonnes (when lifting at 0°).

Product markings: key eye point body marked with manufacturer name “Hackett”, working load limit (based on 4 : 1 safety factor), metric thread size, and batch number for product material traceability. Bolt marked with “HA” branding, metric thread size, bolt material grade, and batch number for bolt material traceability.

Temperature: operational temperature range of - 40°C to + 200°C without reduction in working load limit.

Material: alloy steel.

Testing: load rated parts are subject to 100% magnaflux crack detection following heat treatment. HA key eye points are proof tested to 2.5 times working load limit, and fatigue rated to 1.5 times working load limit.



Metric Specifications

Part Code	WLL 0° t	WLL90° t	Thread M	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Torque Nm	Mass kg
8-H22-M08	0.8	0.3	M8	25.0	23.0	26.0	11.5	38.0	45.3	8.0	8.0	10	0.11
8-H22-M10	1.0	0.4	M10	25.0	23.0	26.0	14.0	38.0	45.3	8.0	10.0	10	0.12
8-H22-M12	2.0	0.75	M12	33.0	27.5	32.0	17.0	43.5	54.0	10.0	12.0	15	0.20
8-H22-M16	4.0	1.5	M16	36.0	31.0	37.5	24.0	52.0	63.5	14.0	16.0	30	0.35
8-H22-M20	6.0	2.3	M20	47.5	38.0	44.5	30.0	63.0	78.5	20.0	20.0	70	0.66
8-H22-M24	8.0	3.2	M24	53.0	47.0	51.6	35.3	74.0	92.0	20.0	24.0	150	1.10
8-H22-M30	12.0	4.5	M30	68.0	56.0	65.0	45.0	92.0	118.0	24.0	30.0	250	2.07
8-H22-M36	16.0	7.0	M36	82.0	64.0	76.0	56.8	105.0	136.0	30.0	36.0	400	4.00
8-H22-M42	24.0	9.0	M42	92.0	75.0	88.0	66.5	121.5	160.0	35.0	42.0	500	5.52
8-H22-M48	32.0	12.0	M48	110.0	82.0	100.0	75.5	138.0	180.0	42.0	48.0	500	8.86

WH-HSB Snatch Block

The WH-HSB snatch block with captive shackle is a specialised pulley designed to deliver mechanical advantage to rope and cable systems. It features tapered roller bearings, providing a smooth and steady pull. It's captive shackle features a generous bow which enables easy attachment to anchor points.

Standards: designed and manufactured in accordance with ASME B30.26, EN13157:2004+A1:2009, and AS2089:2008.

Product sizes: available for wire rope diameters from 8mm up to 32mm and working load limits from 2.0 tonnes to 22.0 tonnes.

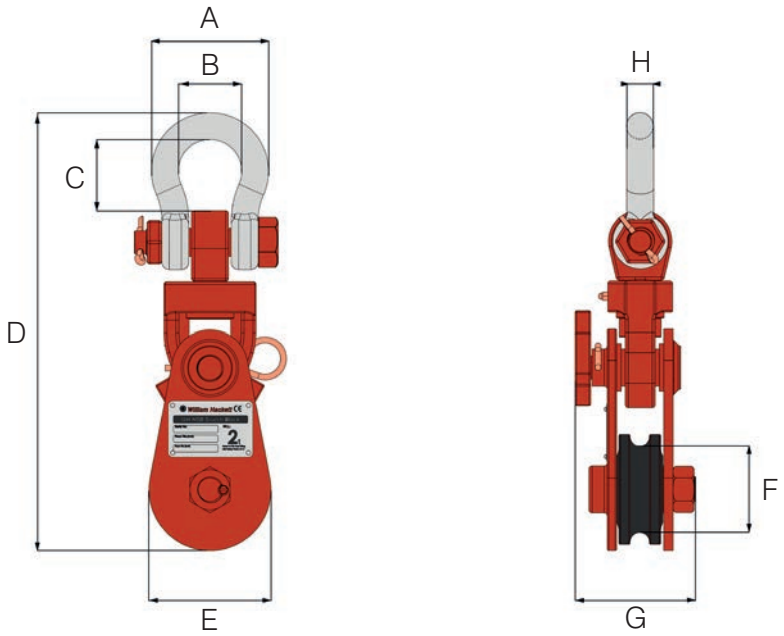
Material: manufactured from high tensile alloy steel.

Maintenance: built in grease nozzle for easy maintenance and enhanced operational performance.

Temperature: - 20°C to + 200°C without reduction in WLL.

Testing: proof load tested to 1.5 times WLL.

Safety factor: 4 : 1.



Metric Specifications

Part Code	WLL t	Wire Rope Dia. mm	Sheave Dia. mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Mass kg
8-H29-02	2.0	8-10	75.0	96.0	42.0	48.5	289.0	82.0	58.0	82.0	16.0	3.8
8-H29-04	4.0	10-13	115.0	102.0	58.0	72.0	363.0	120.0	90.0	84.5	22.0	6.2
8-H29-08	8.0	14-16	150.0	116.0	68.0	83.0	480.5	160.0	120.0	116.0	25.0	14.1
8-H29-0808	8.0	19-22	200.0	116.0	68.0	83.0	528.5	210.0	165.0	114.0	25.0	18.7
8-H29-12	12.0	19-22	150.0	147.0	83.0	95.0	551.0	160.0	120.0	115.0	32.0	22.0
8-H29-15	15.0	19-22	200.0	175.0	99.0	125.0	665.0	210.0	160.0	132.0	38.0	37.0
8-H29-1510	15.0	24-26	250.0	175.0	99.0	125.0	723.0	260.0	206.0	156.5	38.0	45.0
8-H29-22	22.0	28-32	200.0	216.0	127.0	157.5	800.0	210.0	145.0	172.5	45.0	50.0
8-H29-2210	22.0	28-32	250.0	216.0	127.0	157.5	862.0	260.0	195.0	172.5	45.0	68.0
8-H29-2212	22.0	28-32	300.0	216.0	127.0	157.5	893.0	315.0	245.0	172.5	45.0	80.0

Contact Angular Swivels

Jaw + Jaw Contact Angular Swivel

The HA jaw + jaw contact angular swivel is specially designed for lifting applications that involve high rotational speed. The jaw and jaw configuration enables easy connection between other lifting components, such as HA master links or wire rope thimbles.

Standards: designed and manufactured in accordance with ASME B30.26.

Product sizes: available with working load limits from 0.75 tonnes up to 25 tonnes.

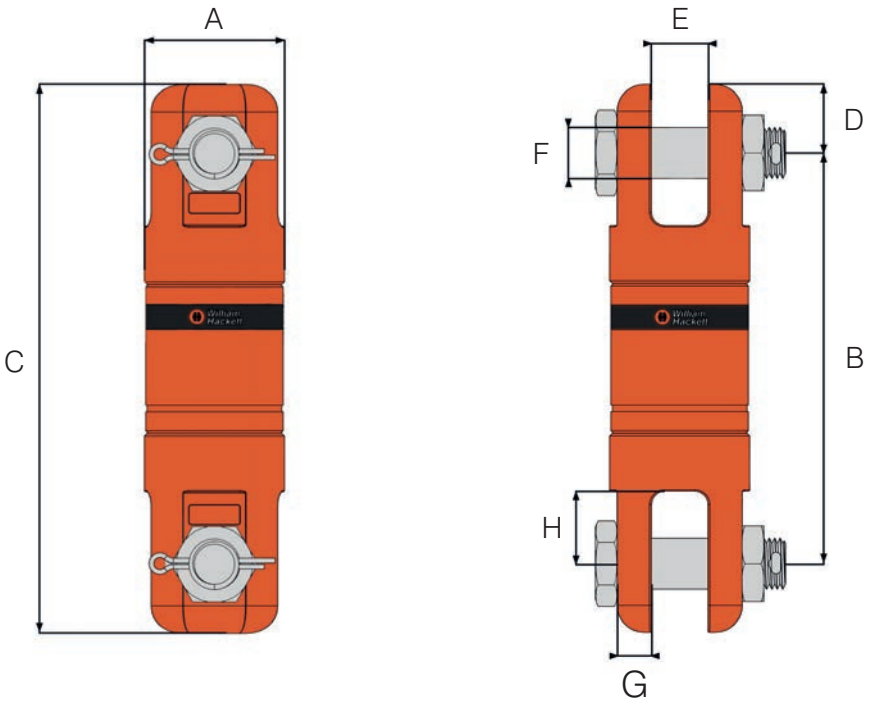
Material: manufactured from alloy steel.

Maintenance: built in grease nozzle for easy maintenance and enhanced operational performance.

Temperature: operational temperature range of - 40°C to + 200°C without reduction in working load limit.

Testing: 100% magnaflux crack detected, and 20,000 cycle fatigue rated to 1.5 times working load limit.

Safety factor: 4 : 1.



Metric Specifications

Part Code	Wire Rope Dia. mm	WLL t	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Mass kg
8-H31-0075	6	0.75	34	107	133	13	15	10	6	22	0.8
8-H31-015	10	1.50	40	119	159	20	18	13	8	26	1.5
8-H31-03	13	3.00	53	160	210	25	23	19	10	32	2.9
8-H31-05	16	5.00	67	203	267	32	32	22	14	37	5.7
8-H31-085	19	8.50	78	250	326	38	40	30	14	54	8.9
8-H31-10	22	10.00	106	310	410	50	42	38	25	54	26.2
8-H31-15	25	15.00	119	320	440	60	48	38	25	57	31.6
8-H31-25	32	25.00	137	405	535	65	62	50	30	70	50.5

Imperial Specifications

Part Code	Wire Rope Dia. inch	WLL t	A inch	B inch	C inch	D inch	E inch	F inch	G inch	H inch	Mass lbs
8-H31-0075	1/4	0.75	1.34	4.21	5.24	0.51	0.59	0.39	0.24	0.87	1.76
8-H31-015	3/8	1.50	1.57	4.69	6.26	0.79	0.71	0.51	0.31	1.02	3.31
8-H31-03	1/2	3.00	2.09	6.30	8.27	0.98	0.91	0.75	0.39	1.26	6.39
8-H31-05	5/8	5.00	2.64	8.00	10.51	1.26	1.26	0.87	0.55	1.46	12.57
8-H31-085	3/4	8.50	3.07	9.84	12.83	1.50	1.57	1.18	0.55	2.13	19.62
8-H31-10	7/8	10.00	4.17	12.20	16.14	1.97	1.65	1.50	0.98	2.13	57.76
8-H31-15	1	15.00	4.69	12.60	17.32	2.36	1.89	1.50	0.98	2.24	69.67
8-H31-25	1-1/4	25.00	5.39	15.94	21.06	2.56	2.44	1.97	1.18	2.76	111.33

Contact Angular Swivels

Eye + Eye Contact Angular Swivel

The HA eye + eye contact angular swivel is specially designed for lifting applications that involve high rotational speed. The eye + eye configuration enables easy connection between other lifting components, such as HA master links or wire rope thimbles.

Standards: designed and manufactured in accordance with ASME B30.26.

Product sizes: available with working load limits from 0.75 tonnes up to 25 tonnes.

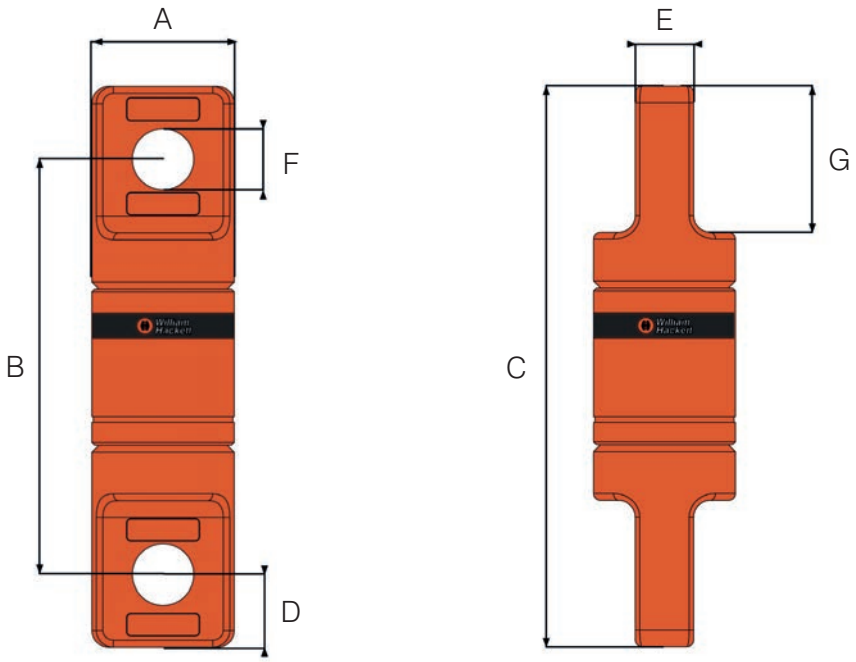
Material: manufactured from alloy steel.

Maintenance: built in grease nozzle for easy maintenance and enhanced operational performance.

Temperature: operational temperature range of - 40°C to + 200°C without reduction in working load limit.

Testing: 100% magnaflux crack detected, and 20,000 cycle fatigue rated to 1.5 times working load limit.

Safety factor: 4 : 1.



Metric Specifications

Part Code	Wire Rope Dia. mm	WLL t	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Mass kg
8-H32-0075	6	0.75	34	107	133	13	12	10.5	35	0.8
8-H32-015	10	1.50	40	119	159	20	15	13.5	46	1.2
8-H32-03	13	3.00	53	160	210	25	20	20.0	57	2.2
8-H32-05	16	5.00	67	203	267	32	26	33.0	69	5.1
8-H32-085	19	8.50	78	250	326	38	32	37.0	92	8.5
8-H32-10	22	10.00	106	310	410	50	42	44.0	104	23.0
8-H32-15	25	15.00	119	320	440	60	49	54.0	117	29.0
8-H32-25	32	25.00	137	405	545	70	60	66.0	140	46.0

Imperial Specifications

Part Code	Wire Rope Dia. inch	WLL t	A inch	B inch	C inch	D inch	E inch	F inch	G inch	Mass lbs
8-H32-0075	1/4	0.75	1.34	4.21	5.24	0.51	0.47	0.41	1.38	1.76
8-H32-015	3/8	1.50	1.57	4.69	6.26	0.79	0.59	0.53	1.81	2.65
8-H32-03	1/2	3.00	2.09	6.30	8.27	0.98	0.79	0.79	2.24	4.85
8-H32-05	5/8	5.00	2.64	8.00	10.51	1.26	1.02	1.30	2.72	11.24
8-H32-085	3/4	8.50	3.07	9.84	12.83	1.50	1.26	1.46	3.62	18.74
8-H32-10	7/8	10.00	4.17	12.20	16.14	1.97	1.65	1.73	4.09	50.71
8-H32-15	1	15.00	4.69	12.60	17.32	2.36	1.93	2.13	4.61	63.93
8-H32-25	1-1/4	25.00	5.39	15.94	21.46	2.76	2.36	2.60	5.51	101.41

Quad Pawl Technology

Innovation drives safety: our Quad Pawl Technology (denominated as ‘QP’) delivers operators with enhanced levels of operational safety and performance.

Quad Pawl Technology is a revolutionary mechanical brake solution that incorporates twin sets of dual pawls, doubling the number of pawls found in conventional hoists. Each of the pawls engage with the ratchet gear in an offset, sequential configuration. This enables finer adjustment and tensioning capability whilst maintaining pawl and ratchet gear engagement.

A further beneficial feature of Quad Pawl Technology is that, through intuitive design, all four pawls engage with the ratchet gear independently without the requirement of pawl springs. However, for utmost resilience and product endurance, our QP hoists are fitted with pawl springs as standard.

Quad Pawl Technology is now available in:
WH SS-L5 QP lever hoists,
WH C4 QP and WH SS-C4 QP chain hoists,
WH SS-C4 QP ROV chain hoists, and
WH SS-C4 QP ultra low headroom trolley hoists.

For a demonstration of how Quad Pawl Technology works, scan the QR codes below
to view our explanatory animations.

Safe just became safer.

WH SS-L5 QP

Evolution of Quad Pawl

WH SS-L5 QP

Brake Safety Animation

WH SS-C4 QP

Quad Pawl Technology

Chain Hoists

WH C4
Available from
500kg to 50t

WH SS-C4 QP
Available from
500kg to 50t

WH ATEX-C4
Available from
500kg to 5t

WH C4 QP
Available from
500kg to 50t

Chain Hoists

The design and specification of the WH C4 chain hoist range includes:

Light load capability: tested and certified at 2% of the chain hoist rated capacity.

Twin pawl: fitted as standard.

Quad pawl (QP):
- Fitted as standard on products designated “QP”.
- Enhanced resilience to failure.
- Finer tolerance adjustment.
- Endurance tested to twice the industry norm.

Safety factor: 4 : 1.

Safety latches: hooks are fitted with heavy duty cast steel latches. The latch and hook tips are integrated creating a strong and robust hook closure.

Hook overload and traceability marks: hooks have overload indicator marks either side of the hook throat (500kg to 10t). Both top and bottom hooks are embossed with a batch code, manufacturer’s mark and the working load limit for full traceability and compliance to international standards.

Hand chain joiner: a unique hand chain joiner is used as a quick and secure method of joining the hand chain.

Hook housings: secured with socket head cap screws/hex head bolts and nyloc insert locking nuts to allow full inspection.

Fleeting/cross hauling: independently tested and verified (Test Report 2550-7615) for fleeting or cross hauling applications at angles up to 45° from the vertical without deration of the WLL.

Load chain: fitted with load chain that fully complies with international standard BS EN818-7 Grade T (8).
Corrosion protectied Grade 8 load chain is offered as standard with our WH SS-C4 QP range of hoists, and is available as an option for WH C4 QP and WH ATEX-C4 chain hoists.

DNV verification: William Hackett manual chain hoists are verified by DNV as compliant with the requirements of the relevant international standards (verification no. N141UH09). By investing in third party verification, we are able to further demonstrate our commitment to manufacturing and supplying high quality products that are focused on raising safety during lifting operations.

Temperature range:
- 20°C to + 120°C for WH C4 and WH C4 QP chain hoists,
- 40°C to + 120°C for WH SS-C4 QP chain hoists, and
- 20°C to + 135°C for WH ATEX-C4 chain hoists.

Proof Tested: 100% of hoists are proof tested to 1.5 times the WLL.

Optional equipment:
- Overload limiter.
- Top and bottom hook with ball bearing adaptors.

Manufactured and proof tested in the UK.

WH C4 Chain Hoist

Part Code	WLL t	No. of Falls	Load Chain mm	Mass kg 3m HOL	Extra Weight per m kg
022.053	0.5	1	5 x 15	7.8	1.3
022.103	1.0	1	6 x 18	11.1	1.6
022.163	1.6	1	8 x 24	15.8	2.2
022.203	2.0	1	8 x 24	16.8	2.2
022.32D03	3.2	2	8 x 24	24.2	3.6
022.503	5.0	2	10 x 30	38.4	5.2
022.753	7.5	3	10 x 30	58.2	7.6
022/1003	10.0	4	10 x 30	68.9	9.5
022/1503	15.0	6	10 x 30	116.7	13.9
022/2003	20.0	8	10 x 30	149.5	19.0
022/3003	30.0	12	10 x 30	515.0	27.7
022/5003	50.0	20	10 x 30	750.0	45.8

WH C4 QP Chain Hoist

Part Code	WLL t	No. of Falls	Load Chain mm	Mass kg 3m HOL	Extra Weight per m kg
025.053	0.5	1	6 x 18	11.1	1.7
025.103	1.0	1	6 x 18	11.1	1.7
025.163	1.6	1	8 x 24	16.8	2.2
025.203	2.0	1	8 x 24	16.8	2.2
025.323	3.2	2	8 x 24	24.2	3.6
025.503	5.0	2	10 x 30	38.4	5.2
025.753	7.5	3	10 x 30	58.2	7.6
025/1003	10.0	4	10 x 30	68.9	9.5
025/1503	15.0	6	10 x 30	116.7	13.9
025/2003	20.0	8	10 x 30	149.5	19.0
025/3003	30.0	12	10 x 30	515.0	27.7
025/5003	50.0	20	10 x 30	750.0	45.8

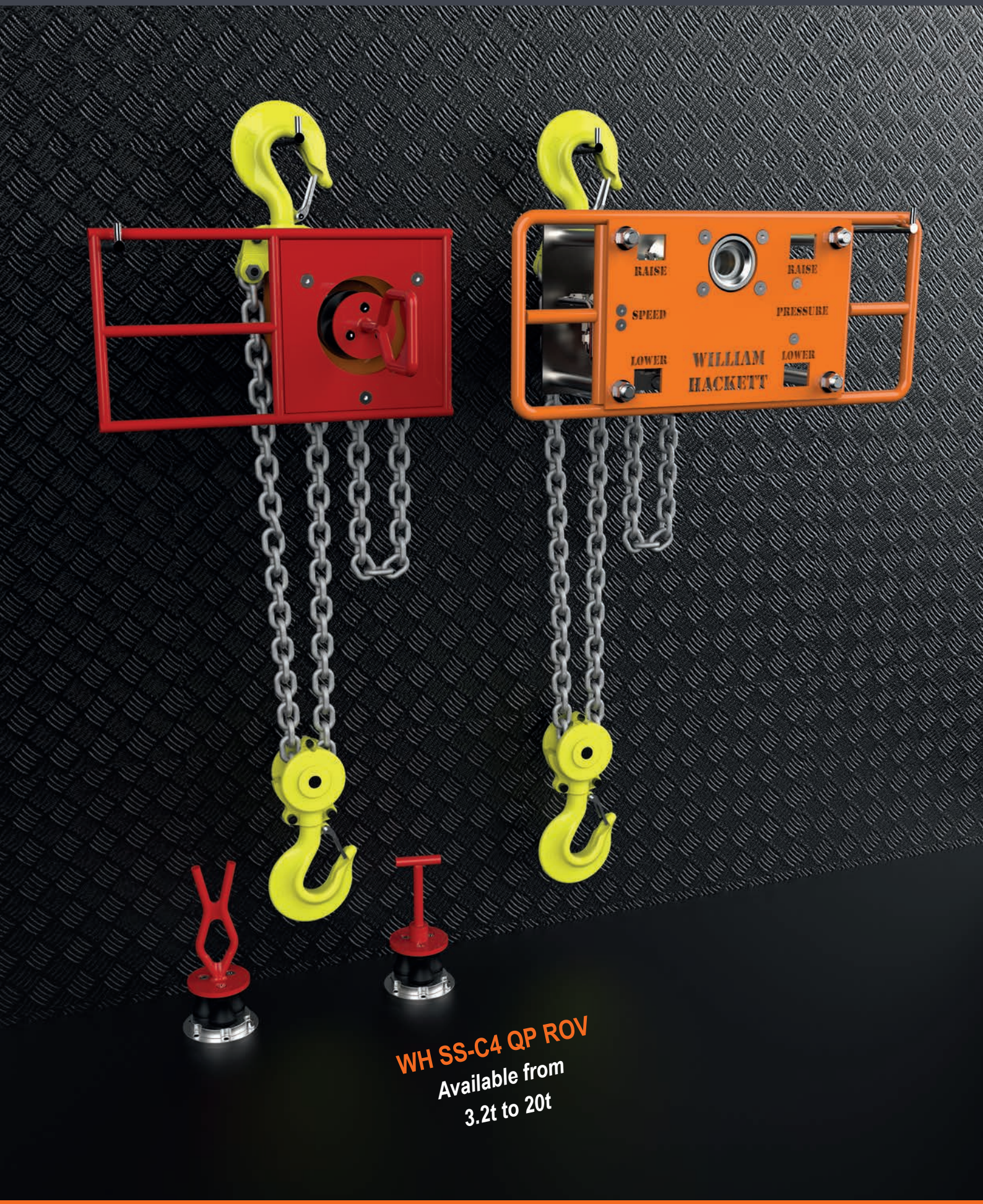
WH SS-C4 QP Chain Hoist (with AkzoNobel Paint)

Part Code	WLL t	No of Falls	Load Chain mm	Mass kg 3m HOL	Extra Weight per m kg
025.SS.053	0.5	1	6 x 18	11.1	1.6
025.SS.103	1.0	1	6 x 18	11.1	1.6
025.SS.163	1.6	1	8 x 24	16.8	2.2
025.SS.203	2.0	1	8 x 24	16.8	2.2
025.SS.32D03	3.2	2	8 x 24	24.2	3.6
025.SS.503	5.0	2	10 x 30	38.4	5.2
025.SS.753	7.5	3	10 x 30	58.2	7.5
025.SS.1003	10.0	4	10 x 30	68.9	9.5
025.SS.1503	15.0	6	10 x 30	116.7	13.9
025.SS.2003	20.0	8	10 x 30	149.5	19.0
025.SS.3003	30.0	12	10 x 30	515.0	27.7
025.SS.5003	50.0	20	10 x 30	750.0	45.8

WH ATEX-C4 Chain Hoist

Part Code	WLL t	No. of Falls	Load Chain mm	Mass kg 3m HOL	Extra Weight per m kg
022.ATEX.053	0.5	1	5 x 15	8.1	1.3
022.ATEX.103	1.0	1	6 x 18	11.5	1.6
022.ATEX.203	2.0	1	8 x 24	16.8	2.2
022.ATEX.32D03	3.2	2	8 x 24	24.2	3.6
022.ATEX.503	5.0	2	10 x 30	38.4	5.2

ROV Chain Hoists



WH SS-C4 QP ROV
Available from
3.2t to 20t

ROV Chain Hoists

In addition to the design and specification of the WH SS-C4 QP chain hoist, the WH SS-C4 QP ROV chain hoist includes the following:

Temperature Range: - 40°C to + 60°C.

Corrosion protected: all William Hackett ROV hoists are finished with highly specialist marine grade paint (AkzoNobel Interpon Redox Triple 3-Layer Corrosion Protection System) to ISO 12944 category C5. This gives superior corrosion protection in harsh, offshore environments.

Neutral salt spray test to ISO 9227: resistance against corrosion, blistering and coating adhesion integrity exceeding 1,500 hours according to ISO 9227. No corrosion creep more than 1.6mm from a scribed mark.

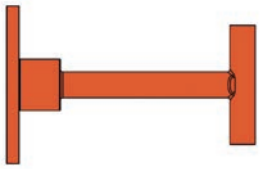
Hyperbaric tested at 3000 metre water depths.

Fixings and fasteners: all made from stainless steel.

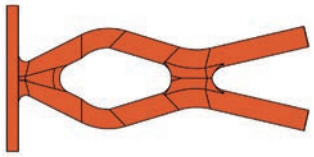
Configurations: available with either hydraulic, torque bucket, or manual drive interfaces. Manual drive interface variants can be supplied with optional handwheel or torque limiter, and either D-link, T-handle, or fishtail handles.

Terminal fittings: supplied with our hoist top and bottom hook assemblies as standard. Can also be supplied with bespoke terminal fittings such as ROV shank hooks, shackles and sling hooks.

Manufactured and proof tested in the UK.



T-HANDLE



FISHTAIL HANDLE

WH SS-C4 ROV Chain Hoist (Manual Interface)

Part Code	WLL t	No. of Falls	Load Chain mm	Mass kg 3m HOL	Extra Weight per m kg
022.R.300.*.P	3.2	1	10.0	26.5	2.2
022.R.500.*.P	5.0	2	10.0	37.9	4.4
022.R.1000.*.P	10.0	4	10.0	68.4	8.8
022.R.1500.*.P	15.0	6	10.0	116.2	13.2
022.R.2000.*.P	20.0	8	10.0	146.8	17.6

*F1, T1 or D1 handles available

ROV Chain Hoists

WH SS-C4 ROV Chain Hoist (Hydraulic Interface)

Part Code	WLL t	No. of Falls	Load Chain mm	Mass kg 3m HOL	Extra Weight per m kg
022.R.300.H1.P	3.2	1	10.0	62.8	2.2
022.R.500.H1.P	5.0	2	10.0	74.2	4.4
022.R.1000.H1.P	10.0	4	10.0	104.7	8.8
022.R.1500.H1.P	15.0	6	10.0	152.5	13.2
022.R.2000.H1.P	20.0	8	10.0	185.3	17.6

WH SS-C4 ROV Chain Hoist (Torque Bucket Interface)

Part Code	WLL t	No. of Falls	Load Chain mm	Mass kg 3m HOL	Extra Weight per m kg
022.R.300.TB1.P	3.2	1	10.0	45.2	2.2
022.R.500.TB1.P	5.0	2	10.0	56.6	4.4
022.R.1000.TB1.P	10.0	4	10.0	87.1	8.8
022.R.1500.TB1.P	15.0	6	10.0	134.9	13.2
022.R.2000.TB1.P	20.0	8	10.0	167.7	17.6

Lever Hoists

WH SS-L5 QP
Available from
800kg to 15t

WH ATEX-L4
Available from
800kg to 10t

WH L4
Available from
800kg to 20t

Lever Hoists

The design and specification of the WH L4 and SS-L5 QP lever hoist range includes:

Light load capability: tested and certified at 2% of the lever hoist rated capacity.

Twin pawl: fitted as standard on WH L4 and WH ATEX-L4 lever hoists.

Quad pawl (QP):
- Fitted as standard on products designated “QP”.
- Enhanced resilience to failure.
- Finer tolerance adjustment.
- Endurance tested to twice the industry norm.

Safety factor 4 : 1

Safety latches: hooks are fitted with heavy duty cast steel latches. The latch and hook tips are integrated creating a strong and robust hook closure.

Hook overload and traceabilty marks: hooks have overload indicator marks either side of the hook throat (800kg to 10t). Batch code, manufacturer’s mark and hoist WLL on both hook assemblies for full traceability and compliance.

Hook housings: are secured with socket head cap screws/hex head bolts and nyloc locking nuts to allow full inspection.

Fleeting/cross hauling: independently tested and verified (Test Report 2550-7615) for fleeting or cross hauling applications at angles up to 45° from the vertical without deration of the WLL.

Load chain: fitted with load chain that fully complies with international standard BS EN818-7 Grade T (8).
Corrosion protectied Grade 8 load chain is offered as standard with our WH SS-L5 QP lever hoists, and is available as an option for WH ATEX-L4 lever hoists.

DNV verification: William Hackett manual chain hoists are verified by DNV as compliant with the requirements of the relevant international standards (verification no. N141UH09). By investing in third party verification, we are able to further demonstrate our commitment to manufacturing and supplying high quality products that are focused on raising safety during lifting operations.

Temperature Range:
- 20°C to + 120°C for WH L4 lever hoists,
- 40°C to + 120°C for WH SS-L5 QP lever hoists, and
- 20°C to + 135°C for WH ATEX-L4 lever hoists.

Proof Tested: 100% of lever hoists are proof tested to 1.5 times the WLL.

Optional equipment:
- Overload limiter.
- Top and bottom hook adaptors.
- Travelling end stop.

Manufactured and proof tested in the UK.

WH L4 Lever Hoist

Part Code	WLL t	No. of Falls	Load Chain mm	Mass kg 1.5m HOL	Extra Weight per m kg
033.080	0.8	1	5.6 x 17	6.2	0.7
033.160	1.6	1	7.1 x 21	9.6	1.1
033.320	3.2	1	10 x 30	15.5	2.2
033.630	6.3	2	10 x 30	27.0	4.4
033.900	9.0	3	10 x 30	38.3	6.6
033/1500	15.0	6	10 x 30	90.0	13.2
033/2000	20.0	8	10 x 30	195.0	19.2

WH L4 Lever Hoist with Shipyard Hooks

Part Code	WLL t	No. of Falls	Load Chain mm	Mass kg 1.5m HOL	Extra Weight per m kg
033.160.SY	1.6	1	7.1 x 21	9.6	1.1
033.320.SY	3.2	1	10 x 30	15.5	2.2

WH SS-L5 QP Lever Hoist (with AkzoNobel Paint)

Part Code	WLL t	No. of Falls	Load Chain mm	Mass kg 1.5m HOL	Extra Weight per m kg
035.SS.080	0.8	1	5.6 x 15.7	5.9	0.7
035.SS.160	1.6	1	7.1 x 19.9	7.4	1.1
035.SS.320	3.2	1	10 x 28	13.7	2.2
035.SS.630	6.3	2	10 x 28	26.4	4.4
035.SS.1000	10.0	3	10 x 28	40.1	6.6
035.SS.1500	15.0	6	10 x 28	94.4	13.2

WH ATEX-L4 Lever Hoist

Part Code	WLL t	No. of Falls	Load Chain mm	Mass kg 1.5m HOL	Extra Weight per m kg
033.ATEX.075	0.8	1	5.6 x 17	6.2	0.7
033.ATEX.160	1.6	1	7.1 x 21	9.6	1.1
033.ATEX.320	3.2	1	10 x 30	15.5	2.2
033.ATEX.630	6.3	2	10 x 30	27.0	4.4
033.ATEX.1000	10.0	3	10 x 30	38.3	6.6

Beam Clamps

WH BC
Available in 2t to 15t

WH UBC
Available in 2t to 10t

WH MDC
Available in 2t to 4t

Beam Clamps

WH BC Fixed Jaw Super Clamp

Features and benefits include:

- Gussett jaws for maximum beam contact, and therafter grip and stability.
- Fitted with Dee shackle for easy hoist connection.
- Can be used up to an angle of 45° from the vertical.

WH UBC Universal Beam Clamp

Features and benefits include:

- Designed for lifting, transporting, lateral pulling and turning over steel plates and various shaped materials across industrial lifting applications.
- Ideal for hanging hoists, and as an anchor point when pulling materials.
- Designed for vertical and side load applications where conventional clamps are not.
- Built in suspension point for low headroom operations.

WH MDC Multi-Directional Clamp

Features and benefits include:

- Fitted with an adjustable locking mechanism, ensuring secure clamping to the beam.
- Can be loaded at any angle, and eliminates the requirement of spreader beams.
- Visual confirmation of safety.

WH BC Fixed Jaw Super Clamp

Part Code	WLL t	Beam Range mm	Mass kg
027.200	2.0	76-190	4.0
027.320	3.2	76-190	8.0
027.320.E	3.2	127-350	11.5
027.400	4.0	150-254	11.0
027.500	5.0	76-190	10.0
027.500.E	5.0	150-305	15.0
027.600	6.0	203-457	18.8
027/1000	10.0	203-457	28.0
027/1500	15.0	203-457	49.5
027/1500.E	15.0	406-610	58.5

WH UBC Universal Beam Clamp

Part Code	WLL t	Beam Width mm	Mass kg
028.200	2.0	76-204	9.5
028.320	3.2	125-204	14.4
028.500	5.0	125-305	26.2
028.1000	10.0	125-305	38.5
028.1000.E	10.0	125-405	45.0

WH MDC Multi-Directional Clamp

Part Code	WLL t	Beam Width mm	Mass kg
029.200	2.0	0-40	4.3
029.320	3.2	0-40	8.2
029.400	4.0	5-40	10.0

Notes

Notes

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