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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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The collaboration of William Hackett and Ketten Wälder, brings together two of Europe's most progressive chain sling system providers. Both companies are family run organisations and share the same passion for excellence in our target markets.



William Hackett has been manufacturing and distributing chain and chain products since 1892. The company is renowned for its ethos of integrity and dependability.

Ketten Wälder has been developing its brands for over 70 years.

Using the very best of German engineering and craftsmanship

Ketten Wälder now offer a high quality range of cromox

Grade 6 products specifically designed for the most demanding of environments. These products are rigorously tested in-house before they leave the factory.

The high standard of manufacturing and performance criteria will provide customers with quality products capable of extended use in service.



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.

The Assure Portal

William Hackett's continual drive for innovation and customer service excellence through its lifting centre of excellence in Alnwick has led to the development Assure. 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 requirement of the onshore and offshore lifting industry's requirements.

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

Chain Sling Assembly

- Full assembly service provided. All slings are assembled by trained and qualified staff.
- Next day delivery service available on request (subject to product availability).
- A range of chain slings are available from 4mm to 18mm



cromox Grade 6 Pump Lifting Chain

The William Hackett Grade 6 cromox pump lifting chains are manufactured by Ketten Wlder in Germany using the highest quality of stainless steel to achieve market leader quality products. All chains are manufactured on state of the art modern machinery and are proof loaded to 2.5 x WLL with a factor of safety 4 : 1.

As with all William Hackett lifting products they have full traceability through our Assure Portal System.

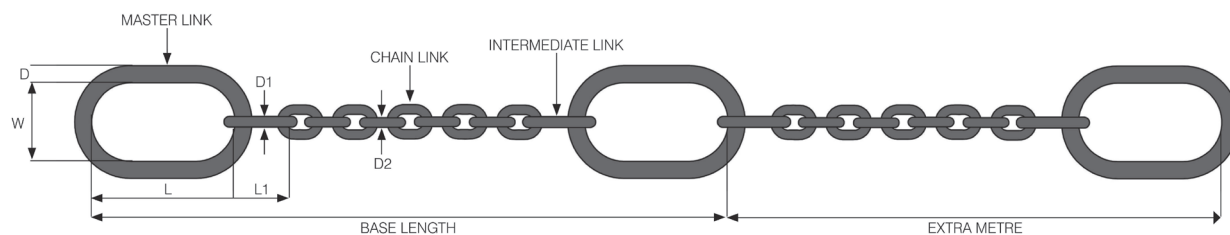
Grade 6 Stainless Steel Pump Lifting Chain fitted with Lifting Points at each end and at approx. 1m centres. Alternative lifting centres and configurations, i.e. double leg or triple leg branch to suit your individual needs can be manufactured.

Production Features:

- Manufactured from corrosion resistant Stainless Steel to 1.4404 / AISI 316L
- Assembled, Welded and Tested at Ketten Wlder, Germany

Quality Assured and Traceability Features:

- Full traceability for all components used in manufacturing process
- Chain links are embossed with manufacturer's mark and batch number every 20 links or 1m which ever is the lesser
- Every Master Link embossed with cromox and our traceability Batch Number.
- All assemblies are Proof Load Tested to 2.5 x WLL
- Factor of Safety: 4:1
- Full certification supplied with every pump lifting chain sling in accordance with Machinery Directive 2006 / 42 / EC



Finish: Polished Proof Tested and Certified Proof Load 2.5 x W.L.L. F.O.S. 4:1

Part Code	Chain Dia. (mm) D2	Dimensions (mm)						WLL Tonnes	Weight Per M (Kg)
		D1	L1	D	L	W	Centres		
SS-CPK05063	5#	6	26	10	80	50	1000	630 Kg	0.65
SS-CPK07125	7#	8	35	13	110	60	1000	1.25	1.37
SS-CPK09200	9#	10	44	16	110	60	1000	2.0	2.34
SS-CPK13385	13	16	70	22	160	90	1000	3.85	4.12
SS-CPK16500	16*	18	85	22	160	90	1000	5.0	5.04
SS-CPK18700	18*	22	115	26	180	100	1000	7.0	6.94

Stocked at William Hackett distribution centre in Alnwick (other sizes available, delivery of each subject to confirmation at time of order)

* Grade 5

Identification Tag: (fitted with secure Stainless Steel Ring)

Identification Tags will include the following information:

- Material & Grade
- Year of manufacture
- W.L.L.
- Sling identification number / traceability code
- Manufacturer's mark
- CE



cromox materials and their advantages

General Information and Industry-Specific Data

Stainless steels and their general industry applications:

- 1.4307 AISI 304L, X2CrNi 18-9 chains for playgrounds, barriers etc., similar to DIN 766.
- 1.4401 AISI 316, X5CrNiMo 17-12-2 not tested chains according to DIN 5685 as well as tested chains according to DIN 763, shackles, barriers for all industries.
- 1.4404 AISI 316L, X2CrNiMo 17-12-2 Hoist chains, suspension elements – Grade 60, sewage, pump chains, complete sling chains for all industries and anchor chains (freshwater) .
- 1.4462 AISI 318LN, X2CrNiMoN 22-5-3 Sling chains, clevis hooks, eye hooks, clevis shackles, suspension links for most demanding requirements in all areas of industry, pump chains and anchor chains (seawater).

Surface finishings available:

- Bright polished (BK) Application: drives/conveyors
- Electropolished (EP) Application: food and beverage industry etc.
- Shot Blasted (GS) Application: sling chains, pump lifting chains and components
- Pickled (GB) by request

Corrosion Resistance Table for Stainless Steel AISI 316L / 1.4404

The table is a general guide only and should not be considered as a substitute for testing and identifying the environmental conditions applicable to the user's requirements under your specific conditions.

Acetic acid <20%	S	Ethanol	S	Potassium sulphate <10%	S
Ammonia (100%)	S	Gasoline	S	Sodium chloride <5%	S
Ammonia Chloride <1%	S	Hydrochloric acid		Sodium hypochlorite <20%	L
Ammonium nitrate 10-50%	S	(all concentrations)	U	Sodium nitrate 10-40%	S
Ammonium sulphate <10%	L	Hydrogen cyanide 100%	L	Sodium sulphate <10%	S
Benzene	S	Hydrogen peroxide <35%	S	Zinc Chloride <10%	S
Calcium hypochlorite (100%)	U	Hydrogen sulphide 100%	S	Zinc sulphate <10%	S
Citric acid <10%	S	Mineral oil	S		
Copper sulphate <10%	S	Nitric acid <10%	S		

S = satisfactory, no or very little corrosion L = limited resistance, exposure time must be limited, some corrosion must occur U = unsatisfactory, not suitable for use

*GRADE 6
CHAIN SLING
SYSTEMS*



Grade 6 Working Load Limit Table

cromox Grade 6 Ring and Hook-Ended slings similar DIN 5688 - 1*

	1 Leg		2 Leg				3 Leg	4 Leg
Chain size mm**	Direct 0°	Tied 0°	Direct 0°-45°	Choke 0°-45°	Direct 45°-60°	Choke 45°-60°	Direct 0°-45°	Direct 45°-60°
4	0.40	0.30	0.55	0.45	0.40	0.30	0.80	0.60
5	0.63	0.50	0.85	0.70	0.63	0.50	1.30	0.90
6	0.90	0.70	1.25	1.00	0.90	0.70	1.90	1.35
7	1.25	1.00	1.75	1.40	1.25	1.00	2.65	1.85
8	1.55	1.20	2.15	1.70	1.55	1.20	3.25	2.30
10	2.45	1.95	3.45	2.70	2.45	1.95	5.15	3.65
13	3.85	3.05	5.40	4.30	3.85	3.05	8.15	5.75
16 (G5)	5.00	4.00	7.00	5.60	5.00	4.00	10.50	7.50
18 (G5)	7.00	5.60	9.80	7.80	7.00	5.60	14.80	10.50

The above-mentioned working load limits correspond approximately to the following load factors:

1.00	0.80	1.40	1.12	1.00	0.80	2.10	1.50
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cromox Grade 6 Endless Chain Slings

cromox Grade 6 Basket Chain Sling with Master Link

Chain size mm**	Direct 0° single	Direct 0° double	Tied 0° single	Tied 0° double
4	0.80	1.60	0.60	1.25
5	1.26	2.50	1.00	2.00
6	1.80	3.60	1.45	2.85
7	2.50	5.00	2.00	4.00
8	3.10	6.20	2.45	4.95
10	4.90	9.80	3.90	7.80
13	7.70	15.40	6.20	12.30
16 (G5)	10.00	20.00	8.00	16.00
18 (G5)	14.00	28.00	11.20	22.40

	0°-45°	45°-60°	0°-45°	45°-60°
	0.45	0.30	0.65	0.45
	0.70	0.50	1.05	0.75
	1.00	0.70	1.50	1.05
	1.40	1.00	2.10	1.50
	1.70	1.20	2.60	1.85
	2.70	1.95	4.15	2.90
	4.30	3.05	6.50	4.60
	5.60	4.00	8.50	6.00
	7.80	5.60	11.90	8.40

The above-mentioned working load limits correspond approximately to the following load factors:

2.00	2 x 2	1.60	3.20	1.12	0.80	1.70	1.20
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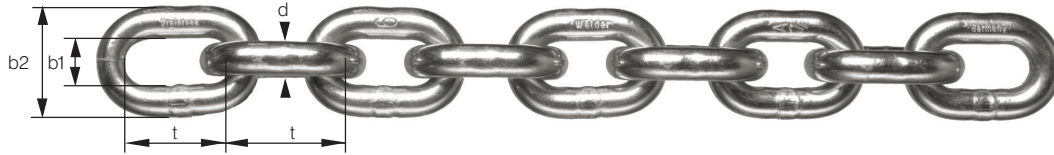
WLL in tonnes dependent on chain type and method of lifting. The strain must be reduced to 50% of the WLL for unbalanced lifting.

* complies with DIN 5688-1 other than material as Grade 6

** Normal chain thickness acc. to DIN 5687

Grade 6 Lifting Chain

cromox Grade 6 Lifting Chain similar DIN 5687*, AISI 316L



Part Code	d mm	t mm	b1 min mm	b2 max mm	WLL tonnes	Mass Kg
SS1.060.5	6.0	18.0	7.8	22.2	0.90	0.80
SS1.070.5	7.0	21.0	9.1	25.9	1.25	1.10
SS1.080.5	8.0	24.0	10.4	29.6	1.55	1.40
SS1.100.5	10.0	30.0	13.0	37.0	2.45	2.20
SS1.130.5	13.0	39.0	16.9	48.1	3.85	3.80
SS1.160.5	16.0	48.0	20.8	59.2	5.00	5.70
SS1.180.5	18.0	54.0	24.3	64.8	7.00	7.30

* complies with DIN 5687 other than material as Grade 6

cromox Grade 6 Endless Chain Sling

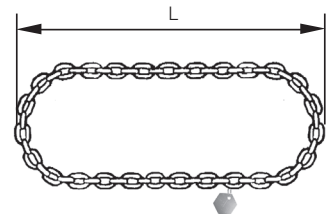
The process effects a metallurgical clean surface without defects.

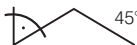
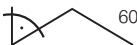
The material's corrosion resistance is fully exploited.

L = length 1000mm \pm Circumference 2000 mm.

For unbalanced loads please follow table on page 10.

NOTE : Custom sizes and finishes upon request.



Part Code	WLL Vertical Tonnes	WLL tonnes	WLL tonnes
			
SS-CELK-04	0.80	0.45	0.30
SS-CELK-05	1.26	0.70	0.50
SS-CELK-06	1.80	1.00	0.70
SS-CELK-07	2.50	1.20	1.00
SS-CELK-08	3.10	1.95	1.20
SS-CELK-10	4.90	3.05	1.95
SS-CELK-13	7.70	4.00	3.05
SS-CELK-16	10.00	5.60	4.00

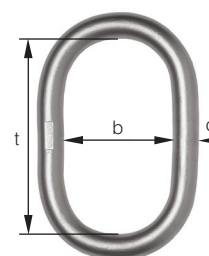
Advantages of electropolishing

Electrolytic polishing is an electro-chemical process for surface treatment which causes ferritic ions to leave the material surface. The intended purpose is to reduce the microroughness. Therefore dirt or product remains are much more unlikely to stick to the chain. The cleanability is improved. Electrolytic polishing is also used for deburring, buffing or passivating.

Grade 6 Master Links and Sub-Assemblies

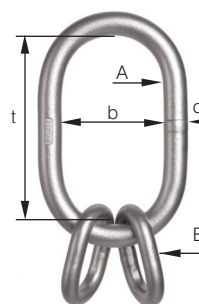
cromox Grade 6 Master Links (CAG/CBG) 1- and 2-leg

Part Code	1 Leg	2 Leg	d mm	t mm	b mm	WLL tonnes	Mass Kg
SS-CAG-04	4	-	8	54	30	0.40	0.07
SS-CAG-0604	5/6	4	10	80	50	0.63	0.15
SS-CAG-0806	6/7/8	5/6	13	110	60	1.55	0.34
SS-CAG-1008	10	7/8	16	110	60	2.45	0.53
SS-CAG-10	-	10	18	135	75	3.55	0.80
SS-CAG-1613	13/16	13	22	160	90	6.00	1.50
SS-CAG-1816	18	16	26	180	100	8.00	2.30
SS-CAG-2018	20	18	32	200	110	12.00	3.90
SS-CAG-2020	-	20	36	260	140	16.00	6.35
SS-CBG-05	-	-	5	22	9	0.40	0.012
SS-CBG-06	-	-	6	26	13	0.63	0.018
SS-CBG-08	-	-	8	35	19	1.25	0.046
SS-CBG-10	-	-	10	44	25	1.55	0.092
SS-CBG-13	-	-	13	54	25	2.45	0.195
SS-CBG-16	-	-	16	70	34	3.85	0.370
SS-CBG-18	-	-	18	85	40	6.00	0.530
SS-CBG-22	-	-	22	115	50	7.60	1.065
SS-CBG-26	-	-	26	140	65	9.60	1.825



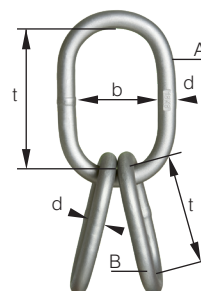
cromox Grade 6 Sub-Assembly (CAK) 3- and 4-leg

Part Code	For Chain	d mm	t mm	b mm	WLL $\beta = 45^\circ$	WLL $\beta = 60^\circ$	Mass Kg
SS-CAK-04	4	A 10 B 8	80 35	50 19	0.80	0.60	0.24
SS-CAK-05	5	A 13 B 10	110 44	60 25	1.30	0.90	0.52
SS-CAK-07	6/7	A 16 B 13	110 54	60 25	2.65	1.85	0.97
SS-CAK-08	8	A 18 B 13	135 70	75 34	3.25	2.30	1.60
SS-CAK-10	10	A 22 B 18	160 85	90 40	5.15	3.65	2.76
SS-CAK-13	13	A 26 B 22	180 115	100 50	8.15	5.75	4.45
SS-CAK-16	16	A 32 B 26	200 140	110 65	10.50	7.50	7.55



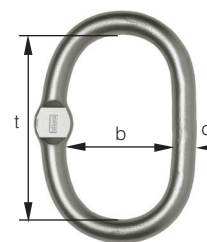
cromox Grade 6 Sub-Assembly for Ropes (CAKS)

Part Code	d mm	t mm	b mm	WLL $\beta = 45^\circ$	WLL $\beta = 60^\circ$	Mass Kg
SS-CAKS-1613	A16 B13	110 110	60 60	1.80	1.25	1.21
SS-CAKS-1616	A16 B16	110 110	60 60	2.40	1.70	1.59
SS-CAKS-1816	A18 B16	135 110	75 60	3.25	2.25	1.86
SS-CAKS-2218	A22 B18	160 135	90 75	5.00	3.50	3.10
SS-CAKS-2622	A26 B22	180 160	100 90	8.50	5.95	5.30
SS-CAKS-3236	A32 B26	200 180	110 100	10.75	7.50	8.50
SS-CAKS-3632	A36 B32	260 200	140 110	13.60	9.50	14.15



cromox Grade 6 Master Links (CAGF/CBGF) for 1- and 2-leg chain slings

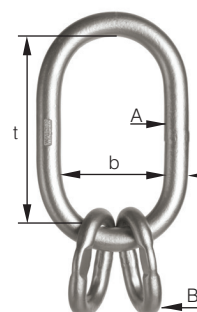
Part Code	1 Leg	2 Leg	d mm	t mm	b mm	WLL tonnes	Mass Kg
SS-003-0504	5	4	10	80	50	0.63	0.15
SS-003-0806	6/7/8	5/6	13	110	60	1.55	0.34
SS-003-1008	10	7/8	16	110	60	2.45	0.53
SS-003-10	-	10	18	135	75	3.55	0.80
SS-003-1613	13/16	13	22	160	90	6.00	1.50
SS-003-1816	18	16	26	180	100	8.00	2.30
SS-003-2018	20	18	32	200	110	12.00	3.90
SS-003-2020	-	20	36	260	140	16.00	6.35
SS-CBGF-13	-	-	13	54	25	2.45	0.195
SS-CBGF-16	-	-	16	70	34	3.85	0.37
SS-CBGF-18	-	-	18	85	40	6.00	0.53
SS-CBGF-22	-	-	22	115	50	7.60	1.065
SS-CBGF-26	-	-	26	140	65	9.60	1.825



These master links have a flattened section to allow the use of clevis shackles type CGS.

cromox Grade 6 Sub-Assembly (CAKF) for 3- and 4-leg chain slings

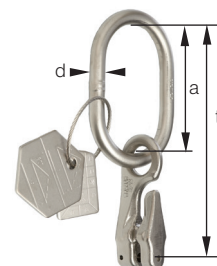
Part Code	For Chain	d mm	t mm	b mm	WLL $\beta = 45^\circ$	WLL $\beta = 60^\circ$	Mass Kg
SS-007-05	5	A13 B10	110 44	60 25	1.30	0.90	0.52
SS-007-06	6	A16 B13	110 54	60 25	2.65	1.85	0.97
SS-007-08	7/8	A18 B16	135 70	75 34	3.25	2.30	1.60
SS-007-10	10	A22 B18	160 85	90 40	5.15	3.65	2.76
SS-007-13	13	A26 B22	180 115	100 50	8.15	5.75	4.45
SS-007-16	16	A32 B26	200 140	110 65	10.50	7.50	7.55



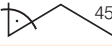
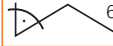
Sub-Assembly With Drop Forged Shorteners

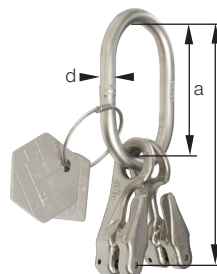
cromox Grade 6 Sub-Assembly (CVK) 1-leg

Part Code	d mm	t mm	a mm	WLL tonnes	Mass Kg
SS-CVK1-05	10	165	80	0.63	0.55
SS-CVK1-06	13	202	110	0.90	0.83
SS-CVK1-07	13	186	110	1.25	1.20
SS-CVK1-08	13	190	110	1.55	1.27
SS-CVK1-10	16	185	110	2.45	2.07

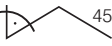
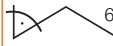


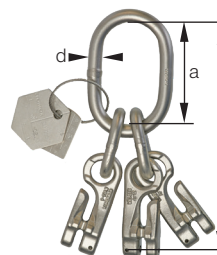
cromox Grade 6 Sub-Assembly (CVK) 2-leg

Part Code	d mm	t mm	a mm	WLL tonnes	WLL tonnes	Mass Kg
						
SS-CVK2-05	13	195	110	0.85	0.63	1.09
SS-CVK2-06	13	202	110	1.25	0.90	1.17
SS-CVK2-07	16	186	110	1.75	1.25	2.08
SS-CVK2-08	16	190	110	2.15	1.55	2.22
SS-CVK2-10	18	210	135	3.45	2.45	3.73

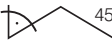
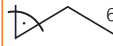


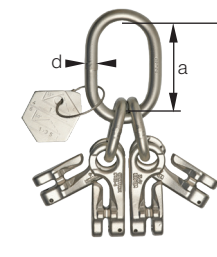
cromox Grade 6 Sub-Assembly (CVK) 3-leg

Part Code	d mm	t mm	a mm	WLL tonnes	WLL tonnes	Mass Kg
						
SS-CVK3-05	13/10	239	110	1.30	0.90	1.57
SS-CVK3-06	16/13	256	110	1.90	1.35	2.11
SS-CVK3-07	16/13	240	110	2.65	1.85	3.22
SS-CVK3-08	18/16	285	135	3.25	2.30	4.06
SS-CVK3-10	22/18	320	160	5.15	3.65	7.08



cromox Grade 6 Sub-Assembly (CVK) 4-leg

Part Code	d mm	t mm	a mm	WLL tonnes	WLL tonnes	Mass Kg
						
SS-CVK4-05	13/10	239	110	1.30	0.90	1.87
SS-CVK4-06	16/13	256	110	1.90	1.35	2.48
SS-CVK4-07	16/13	240	110	2.65	1.85	3.92
SS-CVK4-08	18/16	285	135	3.25	2.30	4.83
SS-CVK4-10	22/18	320	160	5.15	3.65	8.47



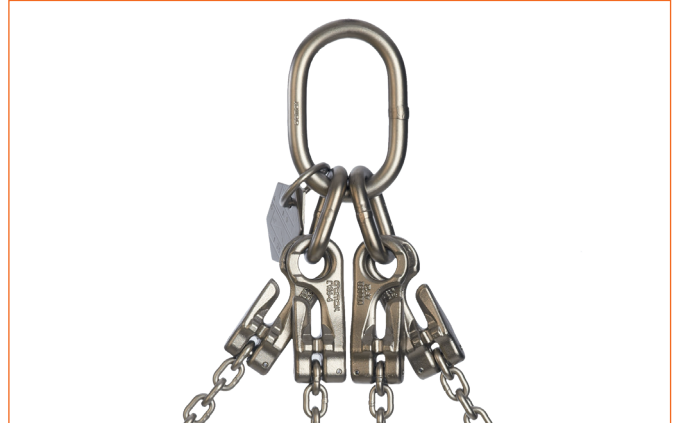
Standard Combination

Quad link sub assembly with standard shorteners and clevis shackles.



New Drop Forged Shortener Combination

Quad link sub assembly with drop forged shorteners.



Advantages:

- Cost savings
- Easier adjustments
- Fewer parts
- Similar to DIN 5692*
- Reduced weight
- Forged heavy-duty 1.4462 steel

* complies with DIN 5692 other than material as Grade 6

cromox Grade 6 Drop Forged Shortener (CVE) blasted

cromox shorteners can be built into a chain strand at any position in combination with clevis shackle CGS. With long chain slings this enables a efficient and ergonomic workflow.

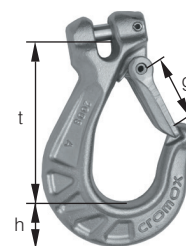
Part Code	d mm	t mm	a mm	WLL tonnes	Mass Kg
SS-CVE-05	25	85.50	39.80	0.63	0.30
SS-CVE-06	25	92.00	40.00	0.90	0.37
SS-CVE-07	32	113.00	50.50	1.25	0.70
SS-CVE-08	32	119.00	50.50	1.55	0.77
SS-CVE-10	38	149.00	61.00	2.45	1.39



Clevis Hooks, Eye Hooks and Swivel Load Hooks

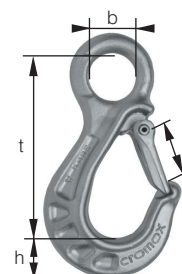
cromox Grade 6 Clevis Sling Hooks (CGHF) with safety latch

Part Code	t mm	g mm	h mm	WLL tonnes	Mass Kg
SS-CGHF-05	79	25	22	0.63	0.40
SS-CGHF-06	78	25	22	0.90	0.40
SS-CGHF-07	97	32	28	1.25	0.76
SS-CGHF-08	97	32	28	1.55	0.76
SS-CGHF-10	121	40	34	2.45	1.44



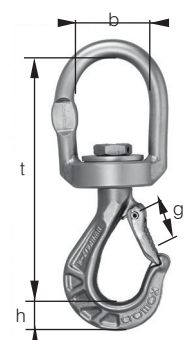
cromox Grade 6 Eye Sling Hooks (COHF) with safety latch

Part Code	t mm	g mm	b mm	h mm	WLL tonnes	Mass Kg
SS-COHF-04	75	20	17	17	0.40	0.185
SS-COHF-06	100	25	25	22	0.90	0.35
SS-COHF-08	126	32	27	28	1.55	0.79
SS-COHF-10	160	40	37	34	2.45	1.37
SS-COHF-13	190	51	48	45	3.85	3.00
SS-COHF-16	230	66	55	51	5.00	4.80
SS-COHF-18	230	66	55	51	7.00	4.80



cromox Grade 6 Swivel Sling Load Hooks with eyelet (CWHB)

Part Code	t mm	g mm	b mm	h mm	WLL tonnes	Mass Kg
SS-CWHB-0405	120	20	40	16.0	0.63	0.65
SS-CWHB-0607	165	25	49	21.0	1.25	0.988
SS-CWHB-0810	235	40	64	33.0	2.50	2.710



Advantages:

- Duplex material 1.4462 (AISI 318LN) ensures superior corrosion resistance
- Ball bearings allow easy rotation even under full load
- Flattened section on the eyelet enables combination with cromox Clevis Shackles CGS



Connecting Links and Shackles

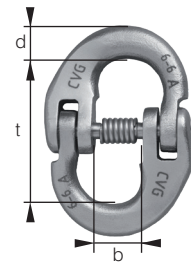
cromox Grade 6 Clevis Shackles (CGS)

Part Code	t mm	b mm	a mm	WLL tonnes	Mass Kg
SS-CGS-06	26	20	7	0.90	0.160
SS-CGS-07	30	23	9	1.25	0.230
SS-CGS-08	30	23	9	1.55	0.230
SS-CGS-10	40	28	11	2.45	0.460
SS-CGS-13	48	38	14	3.85	0.675
SS-CGS-16	50	44	17	5.00	1.130



cromox Grade 6 Connecting Links (CVG)

Part Code	t mm	b mm	d mm	WLL tonnes	Mass Kg
SS-CVG-06	42	15	7.5	0.90	0.085
SS-CVG-07	42	15	9.5	1.25	0.090
SS-CVG-08	55	18	11.5	1.55	0.150
SS-CVG-10	90	28	18.0	2.45	0.310



Shorteners and Identification Tags

cromox Grade 6 Standard Shorteners (CV)

Part Code	a mm	b mm	t mm	Mass kg	WLL tonnes
SS-CV-06	47	10	81	0.18	0.90
SS-CV-08	70	12	94	0.38	1.55
SS-CV-10	80	15	120	0.71	2.45
SS-CV-13	91	20	150	1.18	3.85
SS-CV-16	100	21	175	2.30	5.00



Stainless Steel Identification Tags (CA) Combination tag for single-leg & multi-leg slings, neutral, bright polished

Part Code		Mass Kg
SS-CALO	Without rope and ferrule, without W.L.L. marking	0.10



Spare Parts

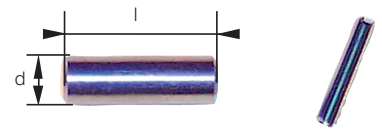
cromox Safety Latch Assembly (CSG) for CGHF

Part Code	Mass Kg
SS-CSG-04	0.026
SS-CSG-06	0.030
SS-CSG-08	0.050
SS-CSG-10	0.095
SS-CSG-13	0.150
SS-CSG-18	0.250



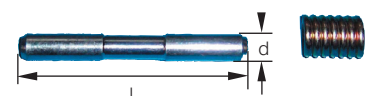
cromox Bolts and Pins (CBP) for CGHF and CGS

Part Code	d/l mm	Mass Kg
SS-CBP-05	6 x 28	0.007
SS-CBP-06	8 x 28	0.010
SS-CBP-07	8 x 32	0.013
SS-CBP-08	10 x 32	0.020
SS-CBP-10	13 x 40	0.045
SS-CBP-13	16 x 45	0.070
SS-CBP-16	20 x 55	0.140



Bolts and Pins (CVGE) for CVG

Part Code	d mm	l mm	Mass Kg
SS-CVGE-06	5	45	0.010
SS-CVGE-07	5	45	0.010
SS-CVGE-08	6	52	0.016
SS-CVGE-10	8	64	0.034



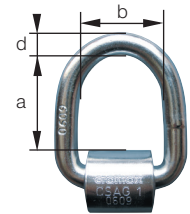
GRADE 6 LIFTING POINTS



Lifting Points

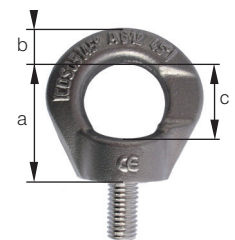
cromox Grade 6 Weld on Lifting Points (CSAG)

Part Code	a mm	b mm	d mm	WLL tonnes	Mass Kg
SS-CSAG-05	33	30	10	0.5	0.165
SS-CSAG-10	44	40	13	1.0	0.370
SS-CSAG-20	52	55	18	2.0	0.955



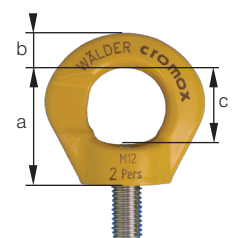
cromox Grade 6 Swivel Lifting Eye Bolt (CDS)

Part Code	a mm	b mm	c mm	Thread	Allen Key	WLL tonnes	Mass Kg
SS-CDS-05	44.0	12.5	29.5	M 12 x 22	8	0.5	0.20
SS-CDS-10	49.5	14.0	32.5	M 16 x 25	10	1.0	0.31

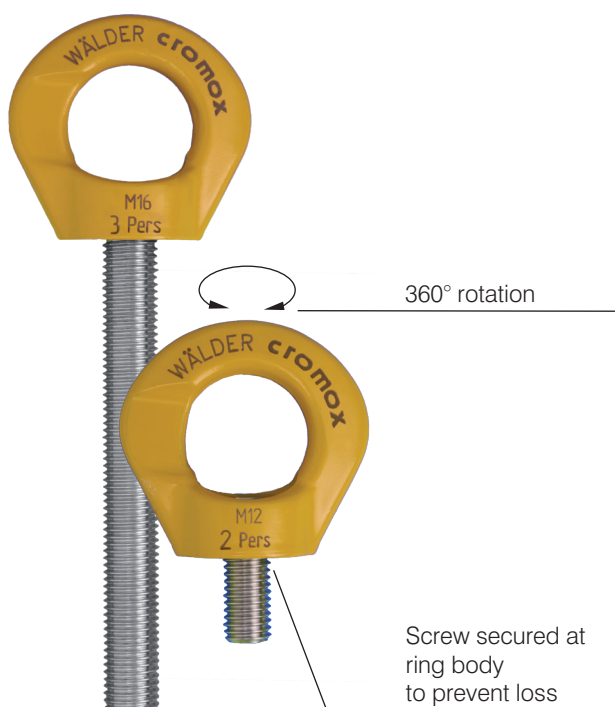


cromox Grade 6 Swivel Eye Bolt (CDS-PPE)

Part Code	a mm	b mm	c mm	Thread	Allen Key	Protection of Max	Mass Kg
SS-CDSPSA-02	44.0	12.5	29.5	M 12 x 22	8	2 Pers	0.20
SS-CDSPSA-03	49.5	14.0	32.5	M 16 x 25	10	3 Pers	0.31



*Standard length of thread. Special lengths up to 150mm on request

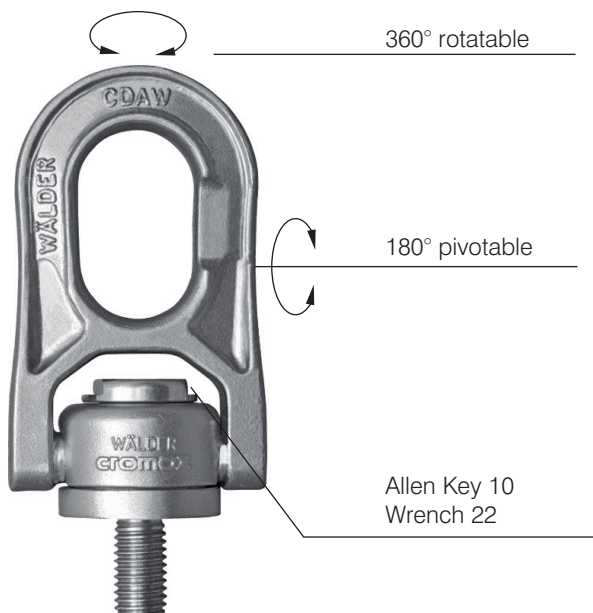


Advantages:

- 360° rotation and adjustable in any load direction
- Forged body increases fatigue resistance
- Ring-body and screw are 100% crack detected
- Screw secured to prevent loss
- Duplex material 1.4462 (AISI 318LN) ensures superior corrosion resistance
- Approved and certified as Personal Protective Equipment
- Tested in accordance with DIN EN 795, DIN CEN/TS 16415, DIN EN 50308

cromox Grade 6 Swivel Lifting Points (CDAW)

Part Code	a mm	t mm	d mm	Thread	Wrench allen key	WLL tonnes	Mass Kg
SS-CDAWM-14	68	98.5	31.0	M 14 x 26	22/10	1.00	0.49
SS-CDAWM-16	68	98.5	31.0	M 16 x 26	22/10	1.25	0.50
SS-CDAWM-20	68	98.5	31.0	M 20 x 30	22/10	1.55	0.51



Advantages:

- 360° rotation and adjustable in any load direction
- Flattened section for combination with CGS
- High fatigue-resistance through forged body
- Easy fitting, using allen key 10 and wrench 22cm screw
- W.L.L. clearly indicated on screw
- Tested in accordance with EN 1677-1, quadruple protection against breakage, grade 60
- All parts 100% crack detected
- Screw secured to prevent loss
- Duplex material 1.4462 (AISI 318LN) ensures superior corrosion resistance

Grade 6 Chain Sling System

Stainless Steel Product Information

cromox products are produced through many years of research, development, and close collaboration with renowned steel manufacturers.

Due to the high-quality, purity and narrow tolerance of the alloying elements in cromox steel, Ketten Wälde are able to produce durable, heavy-duty stainless products with increased corrosion- and crack-resistance. The high concentration of chrome ensures a strong passive layer of chromium oxide for protection.

A precise amount of nickel creates the shiny surface and other alloys like molybdenum allow for increased WLLs and higher breaking points.

Basic information

Steel commonly referred to as “stainless” provides superior resistance against corrosion compared to mild steel.

A composition of at least 10.5 % chromium and maximum 1.2 % carbon is common for stainless steel. Enhancements to the composition of the raw steel and special alloys improve the quality of the chain.

It is commonly stated that “stainless steel is non-magnetic”. This is not strictly true and the real situation is rather more complicated. Austenitic structures are totally non-magnetic, but in practice this is not achieved. There is always a small amount of ferrite and/or martensite in the steel.

It is possible for the magnetic permeability of austenitic steels to be changed during the manufacturing process. For example, cold work and welding are liable to increase the amount of martensite and ferrite respectively in the steel and therefore show signs that the product is magnetic.

DIN Standard

DIN, Deutsches Institut für Normung e.V. (German Institute for Standardization) develops norms and standards for rationalization, quality assurance, environmental protection, safety and communication in industry, technology, science, and government, as well as the public domain.