

THLE

中国港口协会会员企业

Enterprise Member of China & Harbors Association

江苏省高新技术企业

High-Tech Enterprise in Jiangsu Province

浙江大学教学实习基地

Teaching Practice Base of Zhejiang University

中国船级社CCS工厂认可企业

China Classification Society Manufacturer of Works Approval

美国船级社ABS工厂认可企业

American Bureau of Shipping Manufacturer of Works Approval

ISO质量管理体系、环境管理体系、职业健康安全管理体系

ISO Quality, Environmental, Occupational Health & Safety Management System

信息化和工业化融合管理体系、知识产权管理体系

Intergration of Infomationization and Industrialization

Management System, Intellectual Property Management System

抓斗

Grab Bucket

工索具

Lifting & Lashing Equipment

一站式起重工具解决方案

ONE-STOP LIFTING EQUIPMENT RESOLUTION

2022版



ABS工厂认可企业。公司严格执行ISO19001质量管理体系、环境管理体系、职业健康安全管理体系，产品检验严格按照中国船级社CCS《产品试验大纲》执行；公司拥有发明专利30余项，实用新型和外观专利200余项，科技创新和技术进步是我们永恒的追求！

公司现有员工260多名，建筑面积26000多平方米，资产1.5亿元。采用当今最先进的研发技术、新材料、新工艺、新设备，具备先进的产品试验检测能力；先后与浙江大学海洋学院、上海海事大学、中国船舶科学研究中心建立了产学研基地；公司为港口装卸、港机重工、船舶航运、路桥建设等行业提供技术和服 务，自主创新的整套解决方案已大量应用于各种大型工程项目；历经二十年的快速发展，现已成为中国较大的抓斗、起重工索具研发和制造基地。

公司二十年如一日，向全球用户提供各种大型机械抓斗、电液抓斗、吊钩总成、滑轮组、滑车、防风拉索、螺旋扣、卸扣、吊钩、钢板钳、冶金吊夹具、卸船机专用工索具、集装箱专用吊具、链条索具、钢丝绳索具、纤维吊带、绑扎件、拉索拉杆、除尘装车料斗、风电吊具、桥梁工装、机械结构件等产品。

公司已经在部分港口城市设有分公司和仓储服务站，产品远销世界各地。创新的企业基因、优秀的产品品质、灵便的市场需求，快速高效的市场反应、快捷无忧的服务、是新华起重工具一如既往的追求目标！

互联网时代的到来颠覆了传统经济的发展模式，为企业带来新的挑战和机遇。公司开展并坚持网络化的发展战略，开拓创新，通过持续推进智能化起重工具研发，造客户需求，对外构筑并联的整合行业生态体系，创造互联网时代的标杆品牌！长期为您提供技术方案和产品支持！

展望未来，我们将一如既往为客户提供丰富的产品、过硬的质量和贴心的服务，持续努力为客户打造

“一站式起重工具解决方案”！

THLE sets research and development, design, manufacturing, marketing as a whole. It is a member of China Ports and Harbors Association, Hi-Tech Enterprise in Jiangsu province, Manufacturer of Works Approval by China Classification Society and American Bureau of Shipping. The products strictly execute ISO19001 regulations and Product Test Principles of China Classification Society. THLE have dozens of patents of invention and over 200 patents for utility models and appearance, since we always seek for creativity and technical improvement.

THLE covers 26000 square meters, with over 260 employees and an asset of 150 million RMB. Utilizing the most advanced technology with new material, new technology and equipment, THLE has profound product testing ability and has set up research base with Marine College of Zhejiang University, Shanghai Maritime University and China Ship Scientific Research Center. It has applied independently innovated solutions in lots of major engineering programs in harbor handling, port machinery, shipping, road and bridge construction, etc. For the last decades, THLE has won respect from a wide range of customers for its high quality products and variety, and outstanding service, which make the company a major research base and manufacturer.

For the last twenty years, THLE has been providing mechanical grab, electric-hydraulic grab, hook block, pulley, sheave, turnbuckle, shackle, hook, plate clamp, metallurgy hanging fixture, ship unloading rigging, container sling, chain, wire rope sling, fiber sling, Lashing, tie rod, dust suppression hopper, wind turbine lifting equipment, bridge construction tools, mechanical structure parts, etc.

THLE has set up branches and service stations in some port cities, sold products overseas, and is always seeking creative gene, excellent product quality, meeting market demand, quick response and convenient service, as always the ultimate purpose.

E-generalization overturned traditional business pattern, as challenge as opportunity to all, THLE launches and sticks to the network strategy, open minded, applies one-stop reserve bank in different ways, explore customer's need, and integrate industry ecosystem, to post a bench-marking brand in the internet era.

Looking into the future, we will keep upgrading product variety and quality, attentively serve, and spare no effort to realize the vision of

One-Stop Lifting Equipment Resolution.

大事记

- 2001年8月15日 公司成立；
- 2002年 公司正式成为振华重工、宁波港、天津港的合格供应商；
- 2003年 顺利交付振华重工盐田项目450t、625t防风拉索；
- 2004年 顺利交付由CCS认证的渤海石油海工平台装船牵引800t滑车；
- 2005年 投资新建的20000平方米新工厂开始投入使用；
- 2006年 第一批抓斗产品投放市场获得成功；
- 2007年 员工超过100人，产值超过5000万，获得CCS工厂认可证书；
- 2008年 引进ERP系统实现数字信息化管理；
- 2009年 实现绩效考核管理办法，全面激发员工工作激情；
- 2010年 向曹妃甸港成功交付64t大型矿石抓斗；
- 2011年 完成二期工程建设，建成研发大楼和工索具实验室，获得江苏省高新技术企业称号；
- 2012年 具有自主知识产权的新型镍矿抓斗投放市场获得成功，75t大型矿石抓斗研制成功，400t-60立方疏浚抓斗研制成功；
- 2013年 员工超过200人，产值超过1亿元，获得ABS工厂认可证书，专利技术超过200项；
- 2014年 由ABS检验向振华重工提供的试验索具在12000t浮吊试验中获得好评；
- 2015年 由CCS检验向海西重机中铁3600t浮吊项目提供的4组900t吊钩滑轮组获得好评；
- 2016年 向振华重工提供1000t四爪吊钩组获得ABS验船师好评；累计生产抓斗超过2000台，剪式抓斗研制获得成功；
- 2017年 成功举办《2017港口起重工具工艺规范》及高效智能吊具研讨会；成功向鹦鹉洲长江大桥和杨泗港长江大桥提供架桥装备；
- 2018年 完成ISO19001质量管理体系、环境管理体系、职业健康安全管理体系的QES认证；完成3000t大型起重工具锻造生产线；成功向三一重工提供900t龙门吊吊钩总成；成功向尚和船务风电安装船提供1200t吊钩滑轮组；
- 2019年 为龙源振华提供2500T风电安装船上全套吊钩及壳体卸扣等；为俄罗斯某船厂提供400t/550t/800t吊排；为中交三航、招商局重工等提供打桩船上全部吊钩及滑轮组；批量为风电主机厂供应成套吊具及提供技术方案。
- 2020年 通过了信息化和工业化融合管理体系、知识产权管理体系认证；荣获无锡市专精特新小巨人企业称号；成功交付多套海上风电吊钩滑轮组应用于“冠盛一航”4600t、振华韩通3000t、“秦航工”2300t、上海博强2300t等海上风电安装船。
- 2021年 通过国家智能制造二级评估；通过无锡市智能车间评定；成功交付多套海上风电吊钩滑轮组应用于温州浩博4000t、“亨通蓝德”3500t、振华舟山勇建3000t、中铁建大桥局2200t等海上风电安装船；成功向烟台、青岛、连云港、防城港等港口交付多套移动式智能除尘料斗；累计生产抓斗超过3000台。



中国船级社CCS认可范围 China Classification Society Certified Products

吊钩 Hooks	≤2500t
转环 Swivels	≤65t
吊梁 Lifting Beams	≤625t
吊环 Lifting Rings	≤60t
抓斗 Grabs	≤25t
滑车 Pulley Blocks	≤1850t
卸扣 Shackles	≤1250t
热轧滑轮 Hot-Rolled Sheaves	≤ φ 1800mm
环锻滑轮 Ring Forged Sheaves	≤ φ 2000mm
螺旋扣 Rigging Screws	≤32t
钢索索节 Steel Wire Rope Sockets	≤63#
钢丝绳铝合金压制索具 Aluminium-Alloy Swaged Riggings for Steel Wire Rope	≤ φ 60.5mm
钢丝绳浇铸接头索具 Wire rope casting joint rigging	≤ φ 65mm



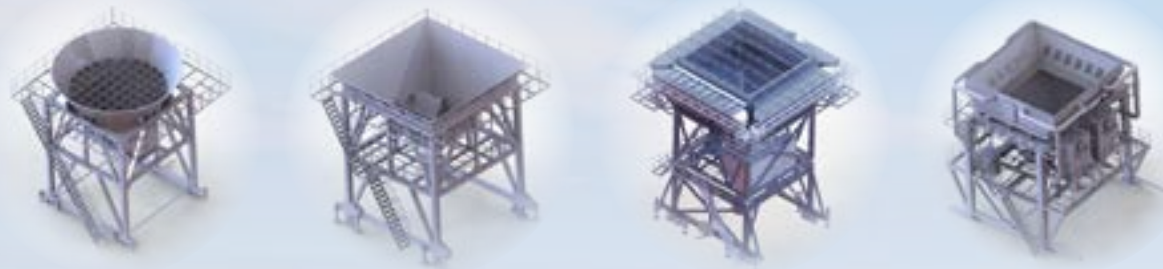
机械抓斗系列 Macheanical Grab Bucket Series P11-17



特种抓斗 Special Grab Bucket P18-23



漏斗系列 Porter Hoppers P24-25



索具系列 Lifting Tools P29-31



索具系列 Port Machinery Acc P32-33



索具系列 Port Machinery Acc P34-35



卸扣系列 Shackles P36-39



吊环系列 Lifting Rings P40-41



吊钩系列 Lifting Hooks P42-43



链条索具系列 Chain Slings

P44-45



螺旋扣系列 Turnbuckle Series

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吊钩总成系列 Lifting Hook Blocks

P50-57



滑轮系列 Pulley Series

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滑轮系列 Pulleies

P60-63



钢丝绳索具系列 Wire Rope Sling Series

P64-71



钢板钳系列 Steel Plate Clamps

P72-74



钢坯、钢卷吊具系列 Billet & Coil Clamps

P75-79



合成纤维吊带系列 Synthetic Fiber Sling Series

P80-84



集装箱锁头系列 Container Lock Head Series

P85-87



风电/桥梁/建筑工装系列 Wind Turbine, Bridge & Construction Lifting Equipment P88-91

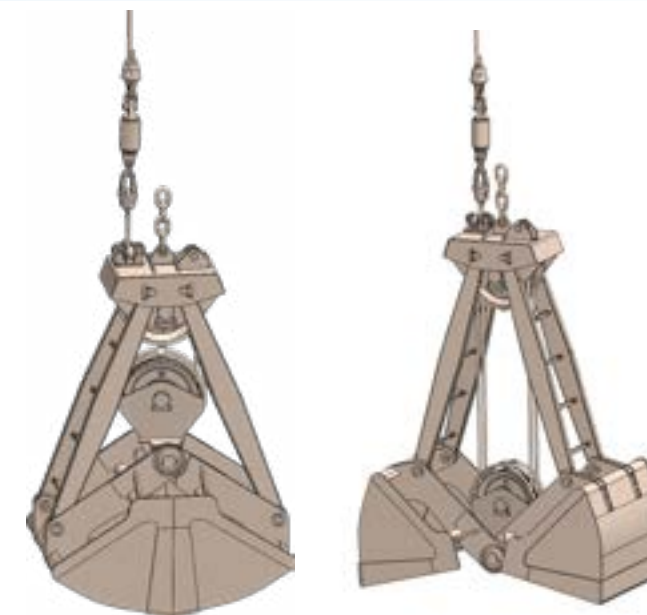
一站式起重工具解决方案

ONE-STOP LIFTING SOLUTION

双索双瓣抓斗 2 Ropes Clamshell Grab

适用于双起升机构的起重机，如双索门机、浮吊、码头吊、行车等；抓取比重为0.6-3.2t/m³各种粒度均匀的散货，通常为粮食、煤炭、水泥、硫磺、矿粉和矿石等。

It's suitable for double wire ropes floating crane and portal crane for granular material, bulk cargoes and mineral with density of 0.6-3.2t/m³.



技术参数表 Technical Specification

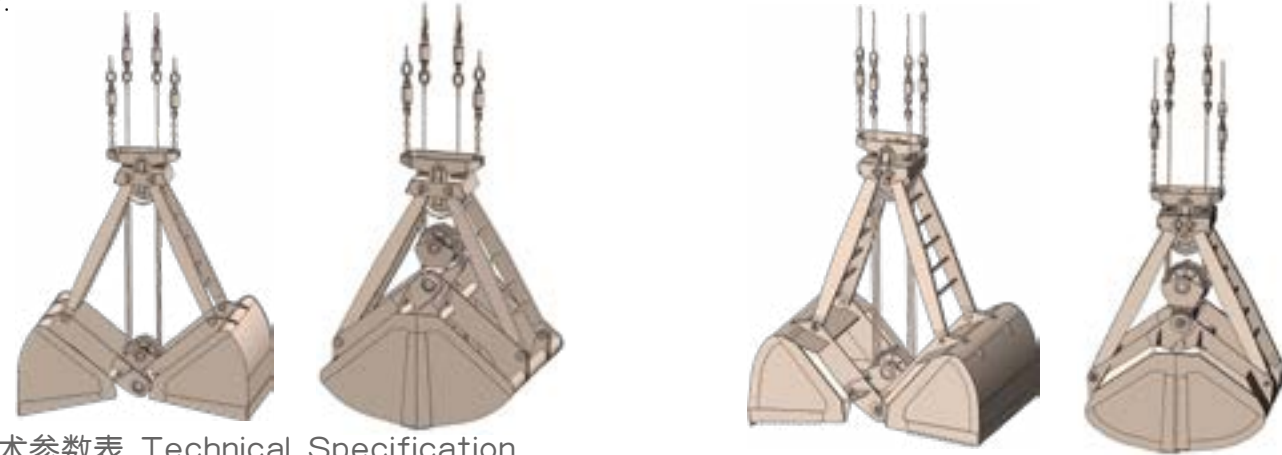
起重机载荷 Crane Load	5t			10t			16t			
物料比重(t/m ³) Density	0.8-1.0	1.5	2.5-3.0	0.8-1.0	1.5	2.2-2.8	0.8-1.0	1.5	2.2-2.8	
斗容(m ³) Bucket Capacity	3.0	1.5	1.0	5.8	4.0	2.5	11	6.5	4.3	
自重(Kg) Weight	2200	2200	2000	4250	4000	3900	6000	5800	5700	
滑轮直径(mm) Sheave Diameter	φ 400	φ 400	φ 400	φ 560	φ 560	φ 630	φ 630	φ 630	φ 630	
倍率 Rate	3 or 4	3 or 4	4 or 5	3 or 4	4 or 5	4 or 5	3 or 4	4 or 5	4 or 5	
闭合绳直径 Closed Rope Diameter	φ 18-20	φ 18-20	φ 18-20	φ 28	φ 28	φ 28	φ 32	φ 32	φ 32	
主要尺寸 Dimensions	闭合宽度	2100	1830	1680	2800	2600	2300	3000	2800	2550
	打开宽度	2800	2240	2050	3650	3500	2900	4300	4100	3390
	闭合高度	2700	2350	2190	3890	3800	3450	4000	4000	3600
	打开高度	3000	2670	2500	4400	4300	3950	4500	4500	4100
	侧面长度	1800	1600	1250	2350	2000	1600	2850	2450	2180



四索双瓣抓斗 4 Ropes Clamshell Grab

适用于港口门机、桥式卸船机、抓斗行车等，抓取比重为0.6-3.2t/m³各种粒度均匀的散货，通常为粮食、煤炭、水泥、硫磺、矿粉和矿石等。 专利号：201220200053.4

It's suitable for portal crane and ship unloader. Used for granular materials, bulk cargoes and mineral with density of 0.6-3.2t/m³.



● 技术参数表 Technical Specification

起重机载荷 Crane Load	5t			10t			16t			25t			
物料比重(t/m ³) Density	0.8-1.0	1.5	2.2-2.8	0.8-1.0	1.5	2.2-2.8	0.8-1.0	1.5	2.2-2.8	0.8-1.0	1.5	2.2-2.8	
斗容(m ³) Bucket Capacity	3.0	3.0	1.3	6.0	4.0	2.5	11	6.8	4.3	17	10	6.6	
自重(Kg) Weight	2200	2200	2000	4250	4000	3900	6000	5800	5700	9800	9500	9000	
滑轮直径(mm) Sheave Diameter	φ 355	φ 355	φ 355	φ 450	φ 450	φ 450	φ 560	φ 560	φ 560	φ 630	φ 630	φ 630	
倍率 Rate	3	3 or 4	4 or 5	3	3 or 4	4 or 5	3	3 or 4	4 or 5	3	3 or 4	4 or 5	
闭合绳直径 Closed Rope Diameter	φ 16	φ 16	φ 18	φ 22	φ 22	φ 22	φ 28	φ 28	φ 28	φ 32	φ 32	φ 32	
主要尺寸 Dimensions	闭合宽度	2150	2000	1850	2800	2800	2300	3000	3000	2550	3700	3600	2800
	打开宽度	2900	2750	2100	4000	3650	2900	4300	4300	3390	5300	5150	3650
	闭合高度	2600	2550	2200	4100	3890	3450	4000	4000	3600	4850	4750	4150
	打开高度	2860	2850	2600	4650	4400	3950	4500	4500	4100	5600	5450	4650
	侧面长度	1800	1600	1250	2350	2000	1600	2850	2450	2180	3450	3000	2350



四索双瓣抓斗 4 Ropes Clamshell Grab

适用于港口门机、桥式卸船机、抓斗行车等，抓取比重为0.6-3.2t/m³各种粒度均匀的散货，通常为粮食、煤炭、水泥、硫磺、矿粉和矿石等。

专利号：201220200053.4

It's suitable for portal crane and ship unloader. Used for granular materials, bulk cargoes and mineral with density of 0.6-3.2t/m³.



● 技术参数表 Technical Specification

起重机载荷 Crane Load	32-34t			36-42t			50-55t		62-65t	70-75t	
物料比重(t/m ³) Density	0.8-1.0	1.5	2.2-2.8	0.8-1.0	1.5	2.2-2.8	0.9-1.0	2.2-2.8	2.2-2.8	2.2-2.8	
斗容(m ³) Bucket Capacity	21	13	8.3	26	16.5	11	30	13	15	19.2	
自重(Kg) Weight	13000	12500	11500	15500	15000	14500	20000	20000	24800	28500	
滑轮直径(mm) Sheave Diameter	φ 710	φ 710	φ 710	φ 800	φ 800	φ 800	φ 900	φ 900	φ 1100	φ 1215	
倍率 Rate	3	3 or 4	5	3	3 or 4	5	3 or 4	5	5	5	
闭合绳直径 Closed Rope Diameter	φ 36	φ 36	φ 36	φ 40-44	φ 40-44	φ 40-44	φ 48-52	φ 48-52	φ 52-56	φ 52-56	
主要尺寸 Dimensions	闭合宽度	4000	4000	3100	4200	4000	4000	4400	4100	4000	4000
	打开宽度	5650	5400	4250	5750	5500	5500	5850	4550	5500	5500
	闭合高度	5350	5200	4600	5800	5600	5600	5850	5200	6500	6500
	打开高度	6000	5800	5050	6550	6300	6300	6650	6150	7000	7000
	侧面长度	3450	3000	2500	3900	3500	3500	4380	2950	3200	3300



双索多瓣抓斗 2 Wires Orange Peel Grab

双索多瓣抓斗，适用于双起开的小型起重机，如双索门机、浮吊、码头吊、行车等，该抓斗吃料较深，可抓取颗粒较大的散货，通常为废钢、煤炭和矿石等。

It is suitable for small size crane, such as 2 wires floating crane and port cranes, used for large granular materials, bulk cargoes and mineral.



● 技术参数表 Technical Specification

起重机载荷 Crane Load	3.2t			5t			10t			
物料比重(t/m ³) Density	0.6-0.8	1.0-1.5	2.5-3.2	0.6-0.8	1.5	2.5-3.2	0.6-0.8	1.5	2.5-3.2	
斗容(m ³) Bucket Capacity	1.5	1.2	0.75	3.0	2.8	1.0	6.0	4.5	2.0	
自重(Kg) Weight	2400	2300	2200	3200	2400	2300	5600	5000	4800	
滑轮直径(mm) Sheave Diameter	φ 355	φ 355	φ 355	φ 400	φ 400	φ 400	φ 630	φ 630	φ 630	
倍率 Rate	3	3 or 4	4 or 5	3	3 or 4	4 or 5	3	3 or 4	4 or 5	
闭合绳直径 Closed Rope Diameter	φ 16-18	φ 16-18	φ 16-18	φ 18-20	φ 18-20	φ 18-20	φ 28	φ 28	φ 28	
主要尺寸 Dimensions	闭合宽度	2220	2000	1800	2700	2500	2300	3500	2950	2700
	打开宽度	3120	3000	2800	3700	3150	2900	4700	4100	3300
	闭合高度	2300	2200	2100	2700	2600	2350	3500	3400	3300
	打开高度	2700	2600	2500	3200	2900	2800	4700	4200	3900



四索多瓣抓斗 4 Wires Orange Peel Grab

四索多瓣抓斗，适用于港口大型门机和抓斗行车，吃料较深，可抓取颗粒较大的散货，通常为废钢、煤炭和矿石等。

It is suitable for large port crane and grab crane, and used for large granular materials, bulk cargoes and mineral.



● 技术参数表 Technical Specification

起重机载荷 Crane Load	5t			10t			16t			25t	32t	40t	
物料比重(t/m ³) Density	0.6-0.8	0.9-1.0	2.5-3.2	0.6-0.8	0.9-1.0	2.5-3.2	0.6-0.8	0.9-1.0	2.5-3.2	2.5-3.2	2.5-3.2	2.5-3.2	
斗容(m ³) Bucket Capacity	3	2.8	1.2	6.0	4.5	2.0	10	8	4	5.6	6.0	8	
自重(Kg) Weight	3200	2400	2300	5600	5600	4800	8000	7500	7000	11000	14500	17000	
滑轮直径(mm) Sheave Diameter	φ 355	φ 355	φ 355	φ 450	φ 450	φ 450	φ 560	φ 560	φ 560	φ 630	φ 800	φ 900	
倍率 Rate	3	3 or 4	4 or 5	3	3 or 4	4 or 5	3	3 or 4	4 or 5	4 or 5	4 or 5	4 or 5	
闭合绳直径 Closed Rope Diameter	φ 16-18	φ 16-18	φ 16-18	φ 22-24	φ 22-24	φ 22-24	φ 28	φ 28	φ 28	φ 32	φ 36-40	φ 40-44	
主要尺寸 Dimensions	闭合宽度	2800	2600	3500	3500	2950	2700	3700	3500	3350	3650	3820	4200
	打开宽度	3500	3000	4700	4700	4100	3300	5000	4800	4300	4650	5000	5520
	闭合高度	2700	2600	3500	3500	3400	3300	3800	3700	3580	4000	4200	4650
	打开高度	3200	3000	4700	4700	4200	3900	4700	4500	4360	4900	5200	5800



七瓣木片抓斗
专利号: 201220200018.2

镍矿多用途抓斗 Multi-Purpose Grab for Nickel Mine

2011年4月，我公司针对以镍矿为典型的包括铝矾土、陶土等粘性较大的散货，在以往的卸船作业中出现严重的粘、撒漏和损耗现象。经过六个月的研究论证，2011年10月，首批2台25t镍矿专用抓斗研制成功，并先后投放到连云港东泰公司、营口港一公司试用，获得了较高的评价。

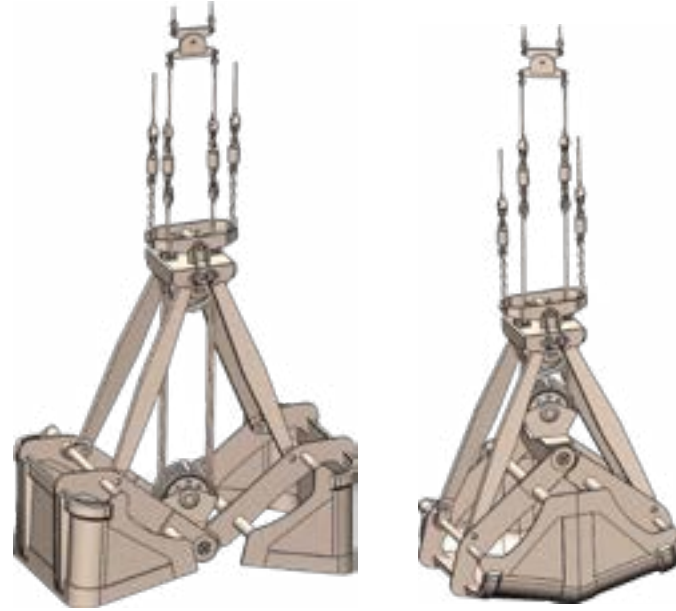
自2011年起，至今，新华起重总共向港口码头提供了超过300台镍矿多用途抓斗，解决了港口粘性物料的装卸难题，赢得了用户的好评！

专利号：201120535310.5、201220199996.X、
201420797492.7、201210137799.X。

THLE established research team and referred to large amounts of material and research regarding to the difficulty on grabbing viscous nickel mine in April, 2011. With 6 months' research and demonstrations, the first 2 sets of special grabs for nickel mine came out and received high reputation in October, 2011.

Since 2011, THEL has supplied over 300 multi-purpose grab for Nickel mine to different port. It solved viscous material grabbing problems and won a lot of received favourable comments.

Patent number: 2001205353110.5, 201220199996.X,
201420797492.7, 201210137799.X.



● 技术参数表 Technical Specification

起重机载荷 Crane Load	25t			40t		
物料比重(t/m ³) Density	1.2-1.4	1.5-1.6	1.8-2.0	1.2-1.4	1.5-1.6	1.8-2.0
斗容(m ³) Bucket Capacity	12	1.0	8.6	18	15.6	13
自重(Kg) Weight	10000	9500	9500	16000	15500	15000
主要尺寸 Dimensions	闭合宽度	4000	4000	3700	4400	4100
	打开宽度	5010	4698	4750	5600	5315
	闭合高度	5308	4698	4612	5542	5430
	打开高度	6016	5415	5245	6151	6011
侧面长度	2800	2600	2400	33000	3100	3100



木材抓斗 Grab Bucket for Wood

木材抓斗，专业用于港口门机和船用起重机的原木装卸船抓取作业，一般分为单索、双索、四索结构。

专利号：201520476691.2
01410778421.7
201420796570.1

It is designed for unloading wood under marine crane and port crane. It can be single, double or four wires grab bucket.



● 技术参数表 Technical Specification

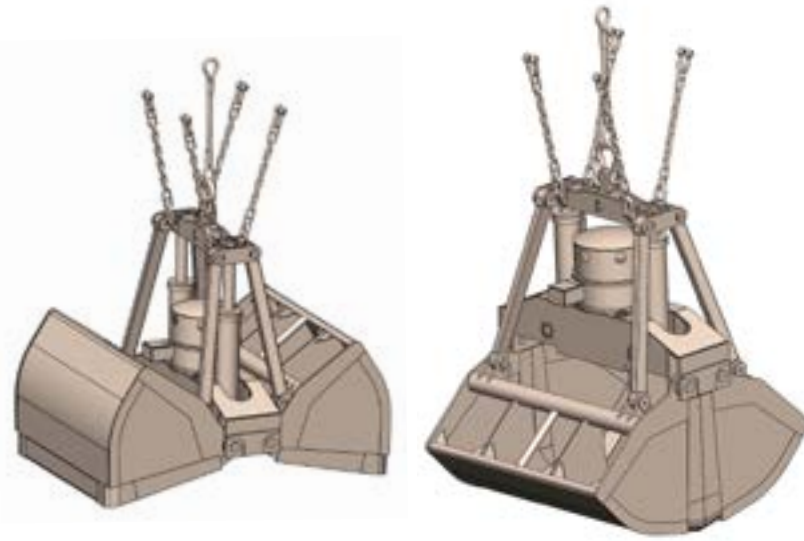
起重机载荷 Crane Load	10t	16t	25t		40t
抱合面积(m ³) Closed Size	1.2	2.0	2.5	3.5	4.5
单索自重(Kg) Single Ropes Weight	4000	6000	8500	8800	
双索自重(Kg) Double Ropes Weight	3400	5600	7500	7800	
四索自重(Kg) Four Ropes Weight	3500	5800	7800	8200	13000
主要尺寸 Dimensions	闭合宽度	2600	2900	3250	4000
	打开宽度	3150	4142	4600	5100
	闭合高度	3980	4527	5051	5160
	打开高度	4550	4843	5483	5760
侧面长度	1600	2000	2150	2150	2400



电动液压双瓣抓斗 Electric-Hydraulic Clamshell Grab

电动液压抓斗，适用于船用起重机、吊钩起重机，通过外接电源由电机驱动液压站，使油缸产生的作用力使斗瓣进行开闭动作而进行工作。广泛应用于船舶、环保电厂、钢厂等，抓取物料包括煤炭、沙石、矿石等。

It suits for marine crane and hanger type crane, which use outer power supply to drives built-in motor and hydraulic system to open and close. It's normally used in harbor, steel or power plant for granular materials, such as coal, sand and mineral.



● 技术参数表 Technical Specification

起重机载荷 Crane Load	5t	10t	16t	25t	32t	40t
物料比重(t/m ³) Density	0.6-3.0					
斗容(KG) Bucket Capacity	1.0-3.0	2.0-6.0	3.0-9.0	5.0-16.0	6.0-19.0	8.0-24.0
电机功率(Kw) Power of motor	18.5	22	30	37	45	55
自重(KG) Weight	2400	4500	7000	9500	13000	16000



电动液压多瓣抓斗 Electric-Hydraulic Orange Peels Grab

电动液压多瓣抓斗，适用于船用起重机、吊钩起重机，通过外接电源由电机驱动液压站，使油缸产生的作用力使斗瓣进行开闭动作而进行工作。广泛应用于船舶、环保电厂、钢厂等，抓取物料包括废钢、垃圾、块矿等。

It suits for marine crane and hanger type crane, which use outer power supply to drives built-in motor and hydraulic system to open and close. It's normally used in harbor, steel or power plant for granular materials, bulk cargoes and mineral.



● 技术参数表 Technical Specification

起重机载荷 Crane Load	5t	10t	16t	25t	40t
物料比重(t/m ³) Density	0.6-3.0				
斗容(KG) Bucket Capacity	1.0-2.5	1.8-5.0	3.0-9.0	4.5-14.0	7.5-22.5
电机功率(Kw) Power of motor	18.5	30	37	45	55
自重(KG) Weight	2800	4800	7500	11000	17500



遥控抓斗 Remote Control Grab Bucket

遥控抓斗一般用于吊钩式起重机（没有开闭功能）的散货装卸作业，通过吊钩的上下起降对抓斗进行遥控开斗来实现放料，遥控抓斗不需要外接电源，通过自带蓄电池、电磁阀、油缸等来实现抓斗的打开放料，通过抓斗自重及开闭钢丝绳来实现散货的抓取闭合。

专利号：201010533044.2、201420423534.0

It is normally used on hanger type crane, which has no wire rope for open and close. The hook controls the grab bucket to move. It needs no outer power source, having built-in battery driving the electromagnetic valve to open grab, using deadweight and releasing ropes to close and lifting bulk cargo.



技术参数表 Technical Specification

起重机载荷 Crane Load	5t	10t	16t	20t	25t	32t	40t	50t	
物料比重(t/m ³) Density	1.0-2.5								
斗容(m ³) Bucket Capacity	3.0-1.0	6.0-2.3	10.0-4.0	11.5-4.5	16.0-6.0	19.0-7.6	24-9.4	29.0-11.6	
自重(Kg) Weight	2200.00	4200	6200	8600	9500	13000	16500	21000	
主要尺寸 Dimensions	闭合宽度	2400	2660	2900	3050	3260	3450	3598	4160
	打开宽度	2980	3240	3600	3998	4184	4368	4480	5400
	闭合高度	3220	3566	3980	4168	4334	4697	5099	5800
	打开高度	3490	3898	4369	4596	4777	5088	5680	6169
	侧面长度	2000	2600	3250	3500	3750	4200	4560	4660

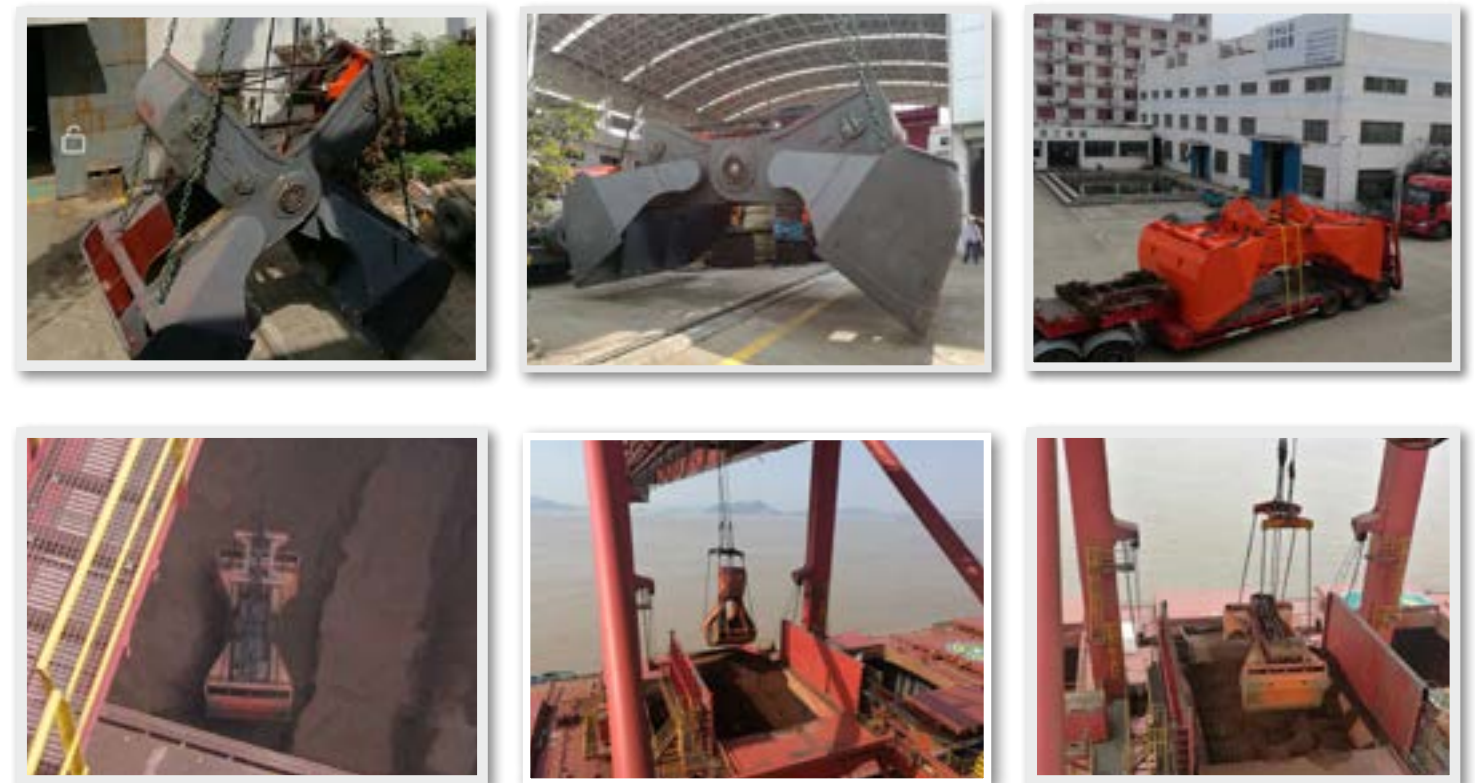


剪式抓斗 Scissors Grab

剪式抓斗是把抓斗两个板通过一个中心铰点连接，板端部延长为绳索式加力臂，依靠收紧滑轮组的钢丝绳，利用杠杆原理增力，使板闭合，抓取物料，多用在大型卸船机上；自重轻、爬取面积大、效率高，抓取比大于2。

专利号：201620559214.7

Scissors grab joins two petals by a hinge joint and two ropes pull the end of the petals through pulley as leverage to open, grab material and close the petals. It's normally used on large scale ship unloaders. It is lighter but covers more space, with high efficiency and grab ratio larger than 2.



双瓣疏浚抓斗 Clamshell Dredging Grab

双瓣疏浚抓斗，通过大吨位船用起重机（具备开闭功能）的开闭钢丝绳，对抓斗进行打开和闭合动作实现抓取和放料，可以对河道、海底、航道中的淤泥、石料、废弃沉船等进行抓取清障。

一般分四绳抓斗和八绳抓斗设计。

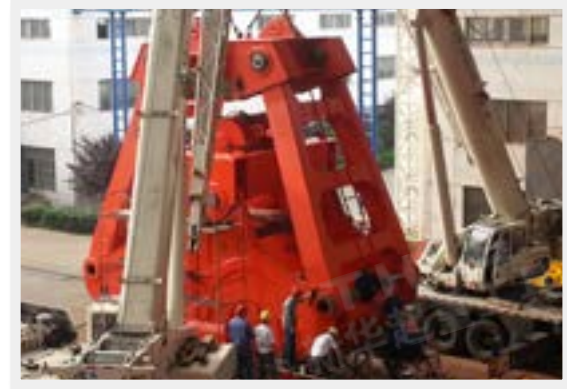
专利号：201320688079.2

Large-tonnage marine crane controls ropes to open and close the grab bucket to grab and release sludge. It can be used to clean mud, rock or sunk ship from river, ocean bottom.

It normally has four ropes type and eight ropes type.

主要规格：5立方、8立方、10立方、15立方、
20立方、30立方、40立方、50立方、60立方。

Main Types: 5M³, 8M³, 10M³, 15M³,
20M³, 30M³, 40M³, 50M³, 60M³.



多瓣打捞抓斗 Orange Peels Salvaging Grab

多瓣打捞抓斗，通过大吨位船用起重机（具备开闭功能）的开闭钢丝绳，对抓斗进行打开和闭合动作实现抓取和放料，可以对河道、海底、航道中的淤泥、石料、废弃沉船等进行抓取清障。

一般分四绳抓斗和八绳抓斗设计。

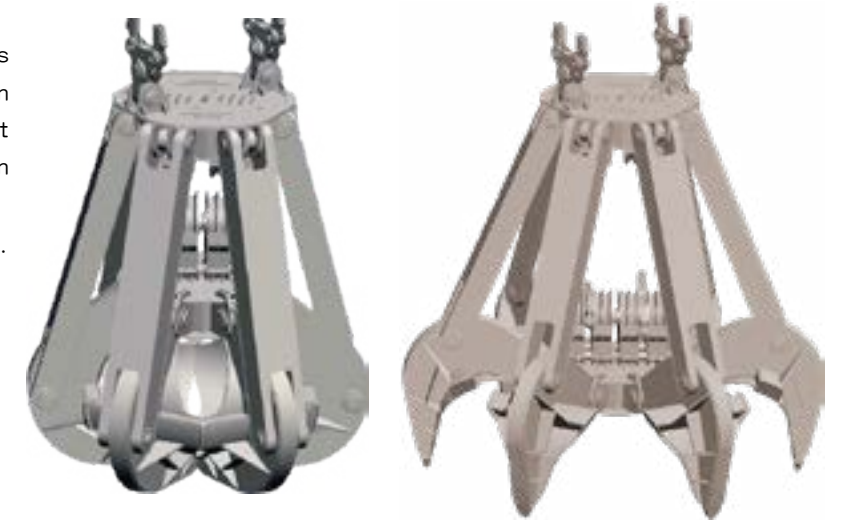
专利号：201320690946.6

Multiple-petals grab bucket for dredge controls ropes on large-tonnage marine crane, which has open and close control, to open and close the grab bucket to grab and release cargo. It can be used to clean mud, rock or sunk ship from river, ocean bottom.

It normally has four rope type and eight rope type.

主要规格：5立方、8立方、10立方、15立方、
20立方、30立方、40立方。

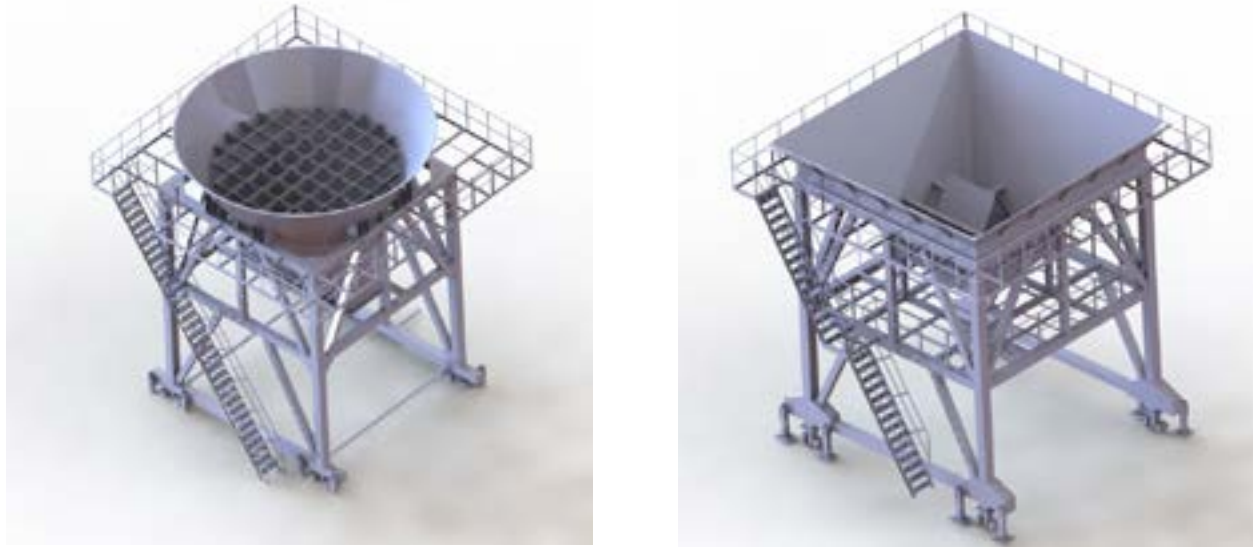
Main Types: 5M³, 8M³, 10M³, 15M³,
20M³, 30M³, 40M³.



散货移动漏斗 Bulk Cargo Removable Port Hopper

散货移动漏斗，广泛应用于港口门机抓斗的卸船和装车作业，直接把抓斗散货物料装卸在漏斗中，通过漏斗下部的闭合斗门，把散货装卸到地面行走的卡车中。适用于各种散货物料。

Bulk cargo removable port hopper is widely used for unloading on port cranes. Directly dock the grab bucket over the hopper and release and the valve at the bottom can load bulk material into trucks.

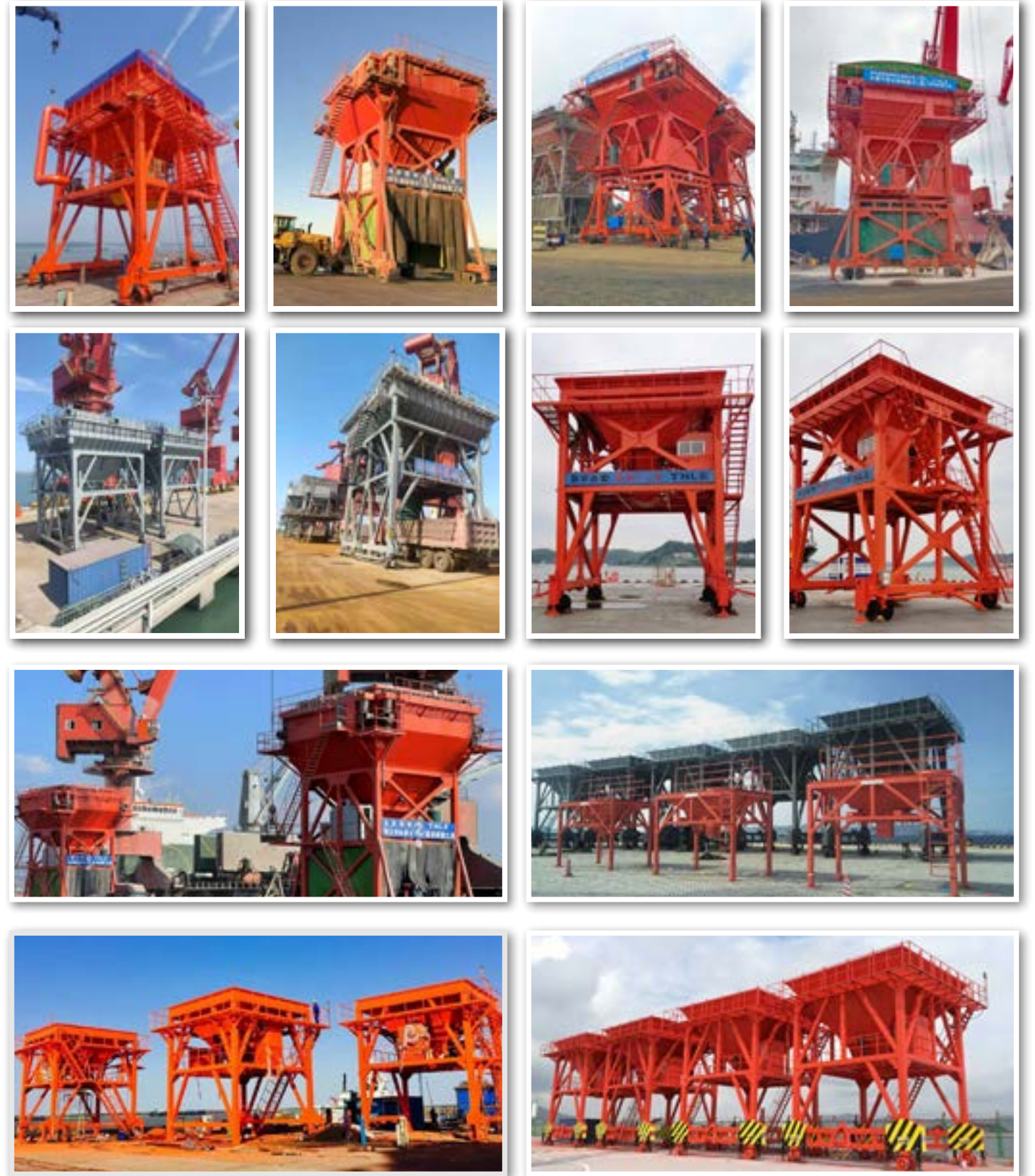


除尘装车料斗，广泛应用于港口易扬尘散货的抓斗卸船作业中，设有功能较强的除尘装置，能有效地降低易扬尘散货物料对环境的影响。

Dust suppression hopper is widely used for dusty bulk cargo, for it has a set of dust collector, which can effectively reduce bad influence for the environment.



除尘装车料斗 Dust Suppression Hopper

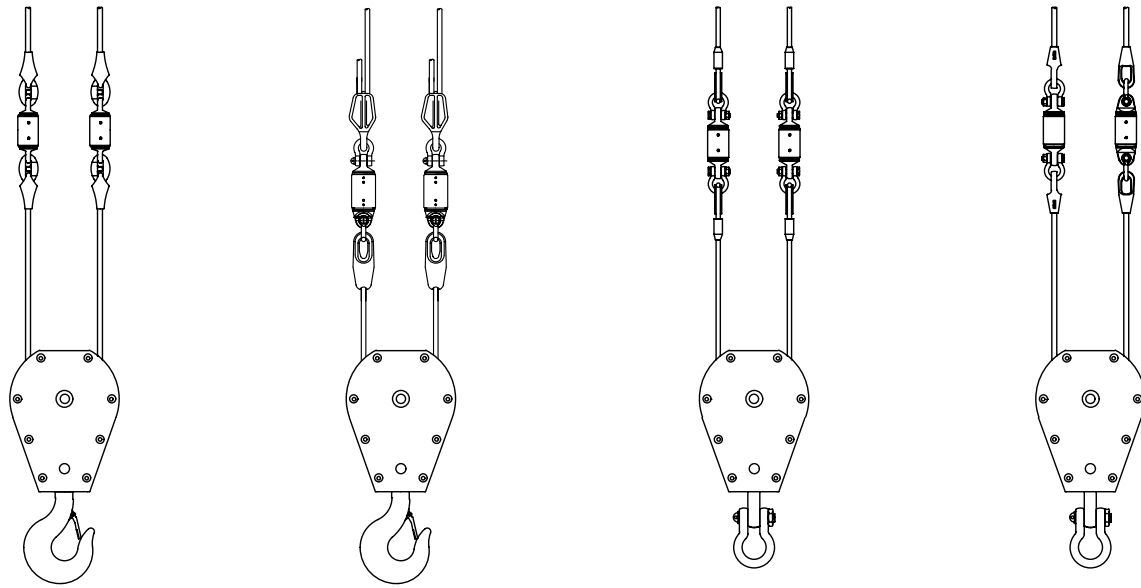


双索门机常用装卸工器具 Common Lifting Tools for Double Wire Ropes Port Crane

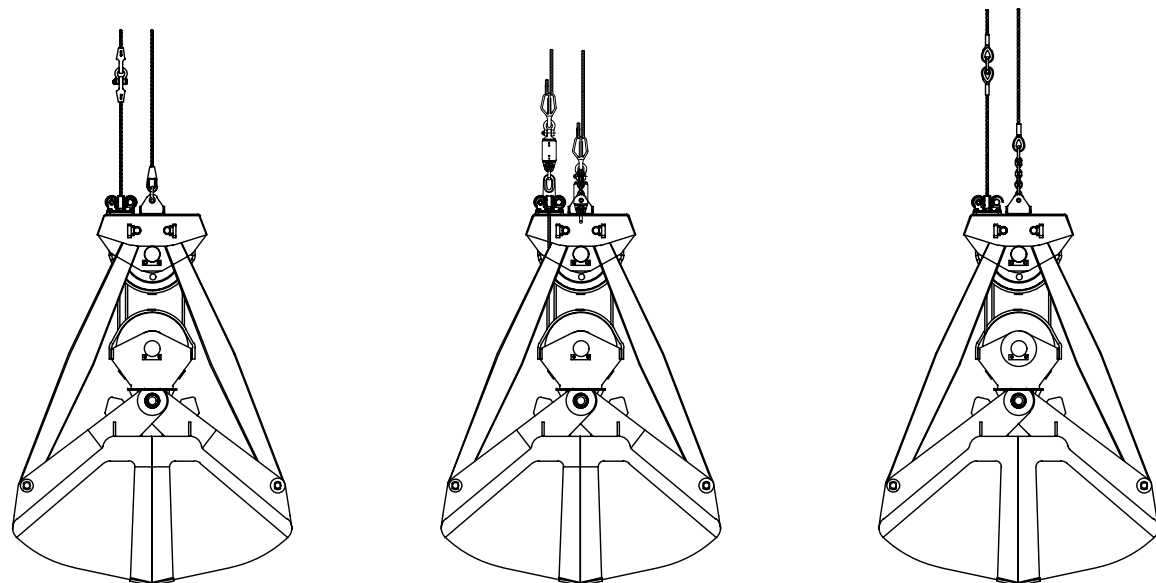
港口常用5t、10t和16t双索门机在装卸作业中，根据不同货种需经常更换吊钩总成、抓斗、专用吊具等，一般在钢丝绳末端使用梨形绳套、钢丝绳快速连接器、闭式索节、铝合金压制接头等作为连接件，在与C型快速卸扣、高强度卸扣、防转套等组合使用时，以确保较快的更换速度、最佳的安全性能和最高的经济效益。

5t, 10t and 16t double wire rope port crane often change hook block, grab bucket and special spreader according to lifting different goods. Mooring socket, rope fast connector, closed spelter socket and rope sleeve are used at the terminal of the rope to connect high-strength shackle and anti-rotation set to ensure quicker change, best safety performance economically.

● 使用吊钩总成时的常用工具配置图示 Common Tool Configuration with Crane Block



● 使用双索抓斗在抓取粮食、煤炭、矿粉等散货物料时的常用工具配置图示 Common Tool Configuration with 2 Wire Ropes Grab Bucket during Grab Bulk Cargoes

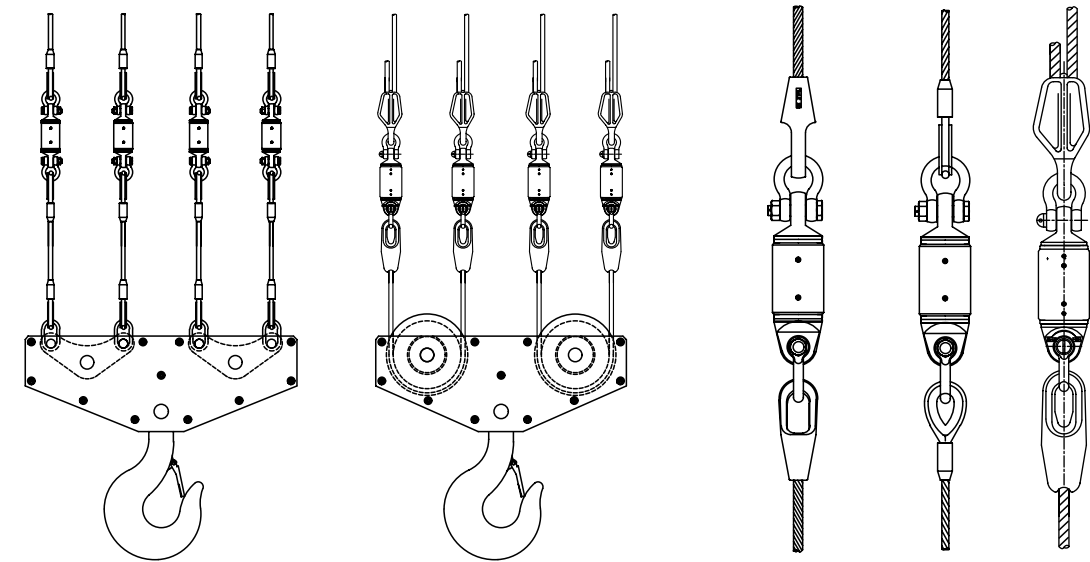


四索门机常用装卸工器具 Common Lifting Tools for Four Wire Ropes Port Crane

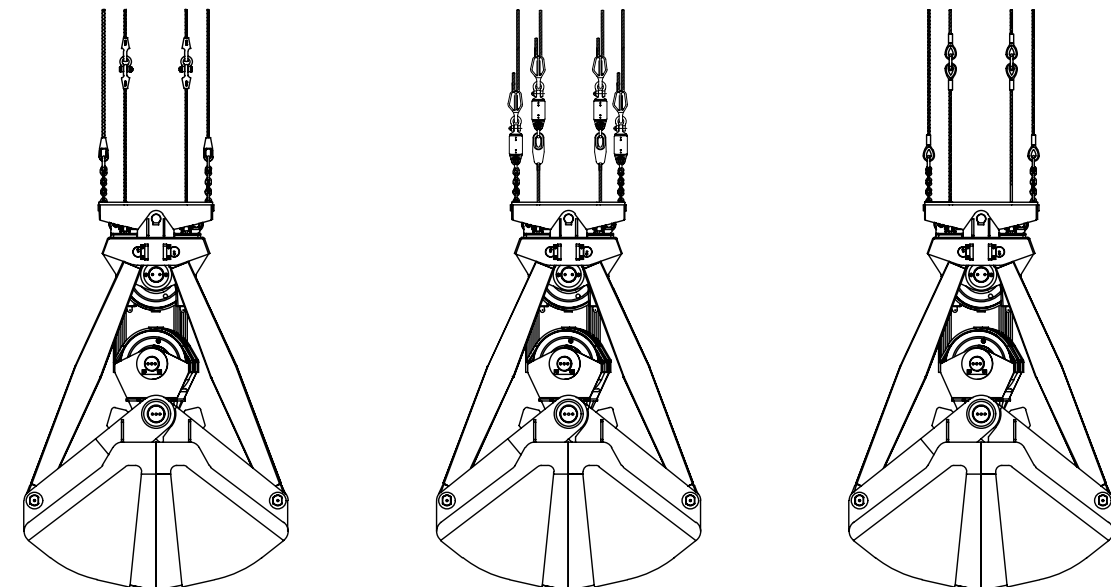
港口常用16t、25t、32t和40t双索门机在装卸作业中，根据不同货种需经常更换吊钩总成、抓斗、专用吊具等，一般在钢丝绳末端使用梨形绳套、钢丝绳快速连接器、闭式索节、铝合金压制接头等作为连接件，在与C型快速卸扣、高强度卸扣、防转套等组合使用时，以确保较快的更换速度、最佳的安全性能和最高的经济效益。

16t, 25t, 32t and 40t four wire rope port crane often change hook block, grab bucket and special spreader according to lifting different goods. Mooring socket, rope fast connector, closed spelter socket and rope sleeve are used at the terminal of the rope to connect high-strength shackle and anti-rotation set to ensure quicker change, best safety performance economically.

● 使用吊钩总成时的常用工具配置图示 Common Tool Configuration with Crane Block



● 使用四索抓斗在抓取粮食、煤炭、矿粉等散货物料时的常用工具配置图示 Common Tool Configuration with 4 Wire Ropes Grab Bucket during Grab Bulk Cargoes



卸船机下装卸工索具使用图例 Tool Configuration for Ship Unloader

桥式卸船机的索具连接方法:

A型: 起升钢丝绳+梨形绳套+起升链

开闭钢丝绳+梨形绳套+C型快速卸扣+梨形绳套+抓斗钢丝绳

B型: 起升钢丝绳+楔形接头+起升链

开闭钢丝绳+梨形绳套+C型快速卸扣+梨形绳套+抓斗钢丝绳

C型: 起升钢丝绳+开式索节+起升链

开闭钢丝绳+梨形绳套+C型快速卸扣+梨形绳套+抓斗钢丝绳

Bridge Type Grab Ship Unloader rigging configuration:

Type A: Hoist Rope+Mooring Socket+Lifting Chain

Wire Rope+Mooring Socket+Quick Release Link+Mooring Socket+Grab Rope

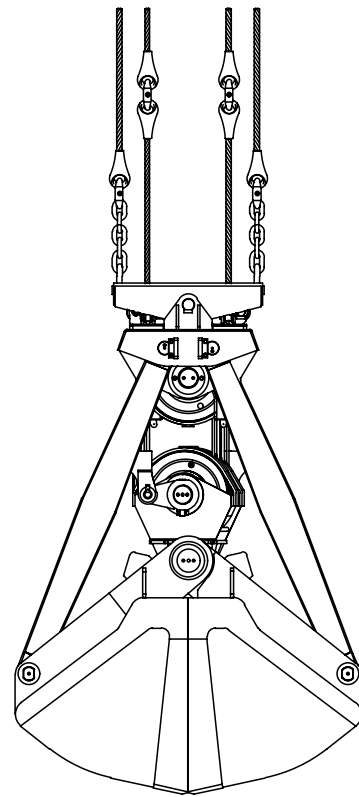
Type B: Hoist Rope+Wedge Socket+Lifting Chain

Wire Rope+Mooring Socket+Quick Release Link+Mooring Socket+Grab Rope

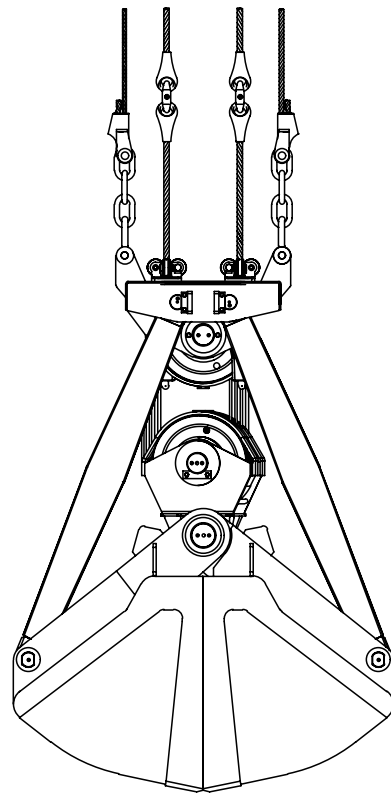
Type C: Hoist Rope+Open Spelter Socket+Lifting Chain

Wire Rope+Mooring Socket+Quick Release Link+Mooring Socket+Grab Rope

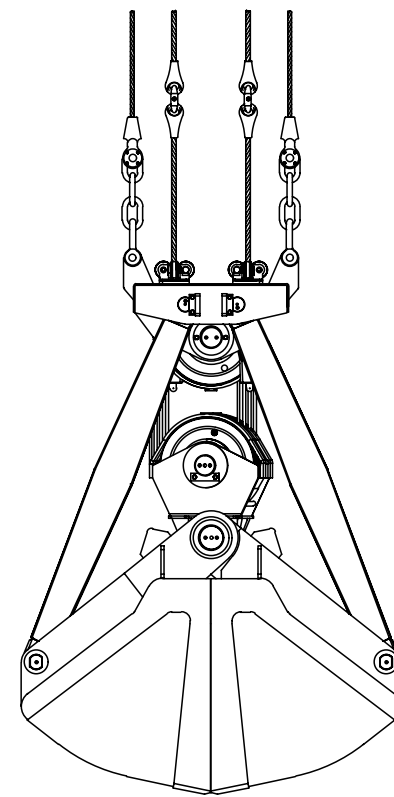
首选A型配置 Preferred Type A Configuration



A型配置
Type A Configuration



B型配置
Type B Configuration



C型配置
Type B Configuration



卸船机抓斗提升链 Chain for Ship Unloader Grab Bucket

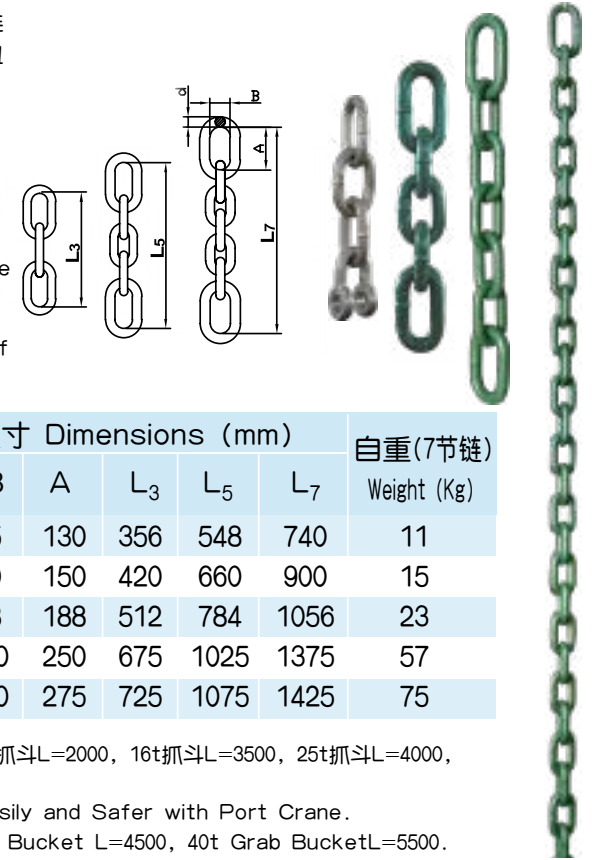
抓斗提升链, 主要用于抓斗起重机的起升钢丝绳下端与抓斗上承梁连接点之间的过渡连接, 防止在作业过程中钢丝绳与抓斗、船口、漏斗之间的经常性接触损伤, 对防止钢丝绳扭转、冲击、挂斗等情况有较好的改善作用, 大大延长钢丝绳的使用寿命。

对于桥式卸船机, 推荐使用7节抓斗提升链, 端环可与C型快速卸扣、梨形绳套等连接使用。

对于门座起重机, 推荐使用长度3-5M的加长链, 方便拆卸。

Used for connection between terminal of wire rope and grab bucket to prevent wire rope from damage when reverse and impact happens, contacting grab bucket, ship rim or hopper, which can extend the life of the rope. 7 section chain for grab bucket is preferred to bridge type grab ship unloader, using quick release link and mooring socket for connection.

3-5m long chain is recommended for gantry crane, for the convenience of removal.



产品代号 Item No.	许用负荷 SWL	适用载荷 Load	适用锁具规格 Type			主要尺寸 Dimensions (mm)						自重(7节链) Weight (Kg)
			钢丝绳 Wire Rope Accessories	快速卸扣 Wire Rope Shackle	绳套 Socket	d	B	A	L ₃	L ₅	L ₇	
TH2831	10t	16t	φ28-30	10t	9#	28	55	130	356	548	740	11
TH2832	14t	25t	φ32	12.5t	10#	32	70	150	420	660	900	15
TH2833	21t	40t	φ40-42	21t	13#	36	88	188	512	784	1056	23
TH2834	35t	50-55t	φ48	32t	15#	50	100	250	675	1025	1375	57
TH2835	50t	62-75t	φ53-56	45t	17#	55	100	275	725	1075	1425	75

港口门机工况下, 为更方便、更安全地更换抓斗, 建议使用加长抓斗提升链, 建议10t抓斗L=2000, 16t抓斗L=3500, 25t抓斗L=4000, 40t抓斗L=5500。

Preferred Long Chain for Grab Bucket to Change Grab Bucket More Easily and Safer with Port Crane.

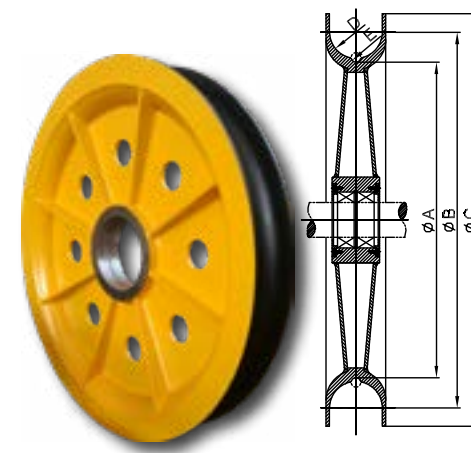
Suggestion: 10t Grab Bucket L=2000, 16t Grab Bucket L=3500, 25t Grab Bucket L=4500, 40t Grab Bucket L=5500.

卸船机宽槽滑轮 Wide Groove Pulley for Ship Unloader

宽槽滑轮安装在桥式卸船机中, 抓斗开闭钢丝绳与卸船机钢丝绳末端采用梨形绳套和C型快速卸扣链接, 使之通过宽槽滑轮, 也使抓斗能提升到较高的高度。

Wide Groove Pulley used in ship unloader, terminal of wire rope for grab bucket and ship unloader use mooring socket and quick release link to ensure enough lifting height by wide groove pulley.

产品代号 Item No.	行业代号 Industry No.	钢丝绳直径 Rope Diameter	可通过梨形绳套规格 Mooring Socket	主要尺寸 Dimensions (mm)				
				A	B	C	D	E
TH2804	4	16-17	4	560	694	750	60	9
TH2805	5	18-19	4-5-6	630	788	850	70	10
TH2806	6	20-21	5-6-7	710	880	960	75	11
TH2807	7	22-24	6-7-8	710	890	970	80	12
TH2808	8	25-27	7-8-9	800	984	1060	80	14
TH2809	9	28-30	8-9-10	900	1116	1210	95	15
TH2810	10	31-33	9-10-11	1000	1240	1360	105	17
TH2811	11	34-36	10-11-12	1000	1240	1360	105	19
TH2812	12	37-39	11-12-13	1200	1450	1260	110	20
TH2813	13	40-42	12-13-14	1200	1450	1560	110	21
TH2814	14	43-45	13-14-15	1400	1655	1760	110	23
TH2815	15	46-48	14-15	1600	1870	1960	110	25
TH2817	17	56	17	1800	2085	2200	122	29



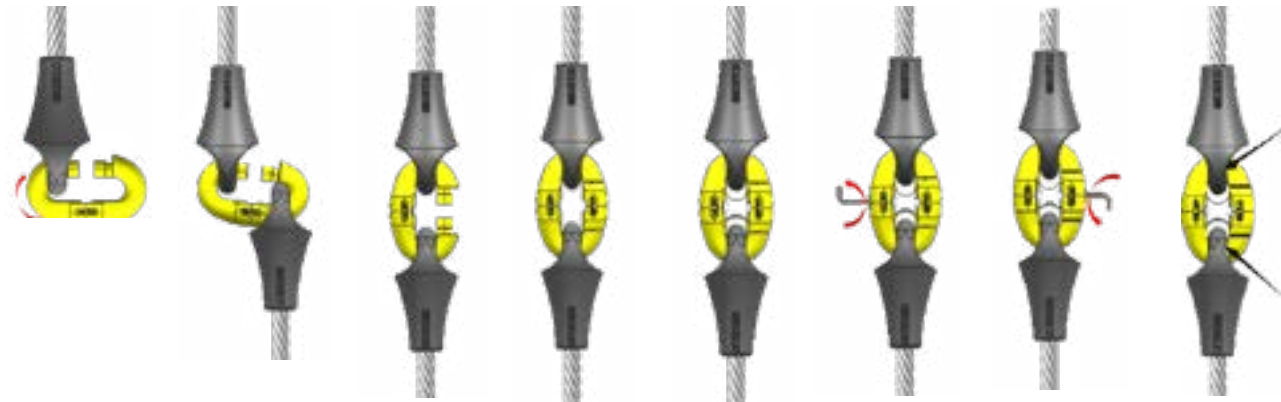
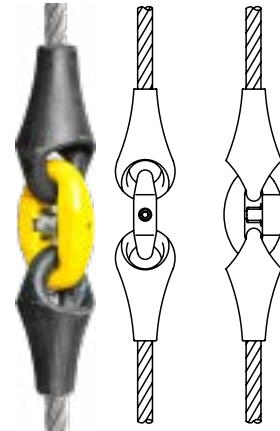
卸船机下装卸工索具使用 Tool Configuration for 4 Rope Ship Unloader

港口常用40t、52t和62t卸船机在煤炭和矿粉的卸船作业中，根据不同货种需经常更换吊钩总成、抓斗、专用吊具等，一般在钢丝绳末端使用梨形绳套、钢丝绳快速连接器、闭式索节、铝合金压制接头等作为连接件，在与C型快速卸扣、高强度卸扣、防转套等组合使用时，以确保较快的更换速度、最佳的安全性能和最高的经济效益。

40t, 52t and 62t four wire ropes port crane offer change hook block, grab bucket and special spreader according to lifting different goods during lifting. Mooring socket, rope fast connector, closed spelter socket and rope sleeve are used at the terminal of the rope to connect high-strength shackle and anti-rotation set to ensure quicker change, best safety performance economically.

● 开闭钢丝绳与吊具的连接方法 Connection between Open/Closed Wire Rope & Spreader:

梨形绳套+C型快速卸扣+梨形绳套的方法 Pear socket + Bow Type shackle + Pear Socket



卸船机下抓斗起重工具中梨形绳套、钢索索节在与钢丝绳的连接时采用巴氏合金（锡基、铅基）热铸法。

浇注方法如下：

- 1、将绳端完全打散清洗
- 2、绳套内壁清渣清洗
- 3、熔解巴氏合金，预热绳套
- 4、浇注并缓冷
- 5、完全冷却后即可投入使用
- 6、绳套可重复浇注2次

The connection between pear socket, spelter socket and wire rope in ship unloader uses either Babbitt or metal cold casting with epoxy resin.

Casting method is as follows:

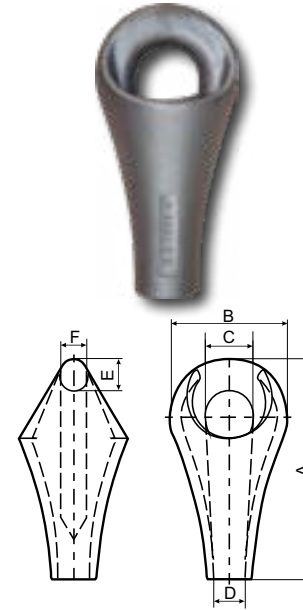
1. Clearly clean the terminal of wire rope
2. Clearly clean the inner wall of socket
3. Fuse Babbitt metal and preheat the socket
4. Casting and slowly cooling
5. Completely cooled for use
6. Socket can be casted two times

巴氏合金
Babbitt Metal



梨形绳套与C型快速卸扣在桥式卸船机中使用 Wire Rope Pear Socket and C Shaped Joining Shackle Configuration

● 钢丝绳梨形绳套系列（梨形头） Wire Rope Pear Socket



产品代号 Item No.	行业代号 Industry No.	钢丝绳直径(mm) Rope Diameter	主要尺寸 Dimensions (mm)						自重(Kg) Weight
			A	B	C	D	E	F	
TH2701	1	10-11	81	48	24	12	12	12	
TH2702	2	12-13	94	56	25	14	15	14	
TH2703	3	14-15	108	64	29	16	17	17	
TH2704	4	16-17	122	70	31	18	19	18	1.1
TH2705	5	18-19	135	84	38	20	21	19	1.5
TH2706	6	20-21	152	84	42	22	23	21	1.8
TH2707	7	22-24	166	100	44	26	26	23	2
TH2708	8	25-27	186	100	48	29	28	25	2.2
TH2709	9	28-30	202	120	56	31	31	27	3.4
TH2710	10	31-33	229	120	58	35	32	29	4.7
TH2711	11	34-36	239	142	64	37	36	31	5.8
TH2712	12	37-39	269	142	68	40	39	35	7
TH2713	13	40-42	285	166	70	43	43	37	9.5
TH2714	14	43-45	312	166	72	47	47	41	9.9
TH2715	15	46-48	326	176	80	51	49	43	11.5
TH2717	17	56	400	220	90	59	60	54	22

● C型快速卸扣（C型环） Quick Release Link (C Shaped Link) (JT/T246-1995)

发明专利号：201210137752.3

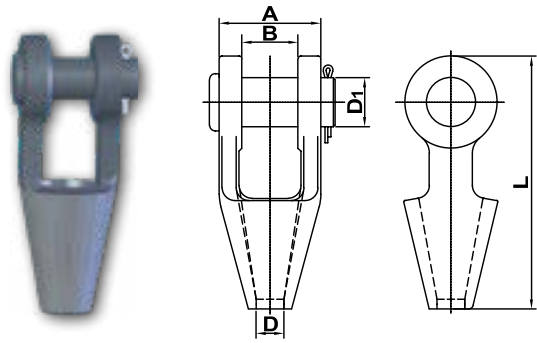


产品代号 Item No.	行业代号 Industry No.	许用负荷 SWL(t)	主要尺寸 Dimensions (mm)						自重(Kg) Weight
			d	L	B	H	A	C	
TH2751	1	1.5	13	78	52	19.5	15	17	
TH2752	2	2.5	15	90	60	22.5	17.5	20	
TH2753	3	3	17	102	68	25.5	19	22	
TH2754	4	3.5	19	114	76	30	21	26	1
TH2755	5	4	21	126	84	33	23	27	1.5
TH2756	6	5	23	138	92	35	26	30	2
TH2757	7	6.3	25	150	100	38	28	32	2.3
TH2758	8	8	27	162	108	41	31	35	2.5
TH2759	9	10	29	174	116	44	34	37	3
TH2760	10	12.5	32	192	128	48	37	41	4
TH2761	11	14	35	210	140	53	40	44	6
TH2762	12	16	38	228	152	57	43	48	7
TH2763	13	21	41	246	164	62	46	51	9
TH2764	14	25	44	264	176	68	50	54	12
TH2765	15	32	47	282	188	71	52	58	14
TH2767	17	45	56	334	220	84	66	68	23

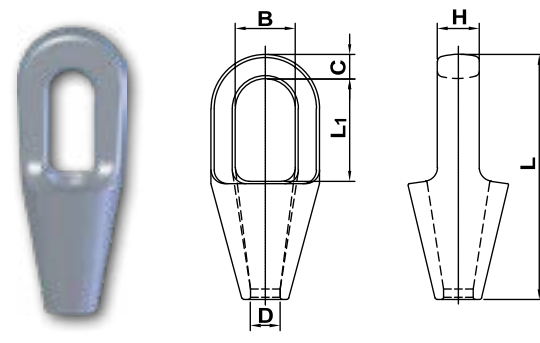


钢索索节 Spelter Socket (CB*654-84)

● 开式钢索索节 Open Spelter Socket



● 闭式钢索索节 Closed Spelter Socket



产品代号 Item No.	钢绳直径d Rope Diameter	主要尺寸 Dimensions(mm)					自重(Kg) Weight	产品代号 Item No.	钢绳直径d Rope Diameter	主要尺寸 Dimensions(mm)						自重(Kg) Weight
		L	B	A	D	D1				L	L1	B	D	H	C	
TH2501	10.5	144	29	45	14	20	0.5	TH2551	10.5	144	63	32	14	18	15	0.5
TH2502	12	159	31	49	16	22	0.7	TH2552	12	159	69	34	16	20	17	0.7
TH2503	14	176	31	53	18	24	0.8	TH2553	14	176	76	37	18	22	19	0.9
TH2504	16	193	32	58	20	26	1.0	TH2554	16	193	84	40	20	24	21	1.2
TH2505	18	210	35	65	23	29	1.5	TH2555	18	210	91	43	23	27	24	1.6
TH2506	20	227	37	73	25	32	2.1	TH2556	20	227	98	47	25	30	26	2.2
TH2507	22.5	245	40	80	30	35	2.8	TH2557	22.5	245	105	52	30	33	29	3.0
TH2508	24	262	44	88	32	38	3.8	TH2558	24	262	112	56	32	36	31	3.8
TH2509	25	281	48	96	33	41	4.8	TH2559	25	281	120	60	33	39	34	4.9
TH2510	28	298	51	103	36	44	5.9	TH2560	28	298	127	65	36	41	36	5.9
TH2511	30	316	54	110	38	47	7.5	TH2561	30	316	134	68	38	44	39	7.4
TH2512	31.5	335	56	118	40	50	9.2	TH2562	31.5	335	142	72	40	47	42	9.0
TH2513	33.5	353	59	125	42	54	11.3	TH2563	33.5	353	150	75	42	50	44	10.8
TH2514	36	373	62	132	44	57	13.1	TH2564	36	373	158	80	44	53	47	12.6
TH2515	37.5	392	66	138	47	60	15.4	TH2565	37.5	392	168	84	47	56	47	15.0
TH2516	40	413	70	146	49	63	18	TH2566	40	413	175	88	49	59	52	17.5
TH2517	42	434	72	152	52	66	20.9	TH2567	42	434	184	92	52	61	54	20.3
TH2518	45	474	79	167	54	72	27.5	TH2568	45	474	200	101	54	67	60	26.6
TH2519	47.5	494	82	174	57	75	31.4	TH2569	47.5	494	209	104	57	70	62	30.5
TH2520	50	516	85	181	60	78	35.1	TH2570	50	516	218	109	60	73	65	34.1
TH2521	53	536	89	189	63	81	39.3	TH2571	53	536	227	113	63	76	67	38.0
TH2522	56	567	93	199	66	85	43.9	TH2572	56	567	240	119	66	80	71	45.2
TH2523	60	619	101	215	70	92	59.4	TH2573	60	619	262	129	70	87	78	58.3
TH2524	63	641	105	221	74	95	64.5	TH2574	63	641	271	133	74	90	81	64.0

起重工具中梨形绳套、钢索索节在与钢丝绳的连接时也可采用环氧树脂冷铸法。

浇注方法如下:

- 1、将绳端完全打散清洗
- 2、绳套内壁清渣清洗
- 3、环氧树脂混合搅拌均匀
- 4、浇注并凝固
- 5、完全凝固后即可投入使用
- 6、绳套可重复浇注2次

The connection between pear socket, spelter socket and wire rope in ship unloader uses either Babbitt or metal cold casting with epoxy resin.

Casting method is as follows:

1. Clearly clean the terminal of wire rope
2. Clearly clean the inner wall of socket
3. Mix Epoxy
4. Casting and solidification
5. Completely solidified for use
6. Socket can be casted two times



防转套 Anti-Rotation Set

● 双转防转套技术参数及应用 Anti-Rotation Set Configuration & Application

防转套一般在起升高度较高的港口门机钢丝绳中使用,其主要目的是释放钢丝绳在使用中产生的扭转,并起到一定的配重作用。

我公司的防转套系列产品已从90年代起的单转升级为四轴承双转型,故障率很低。

专利号: 201020176516.9、201320602181.6、202023127862.0

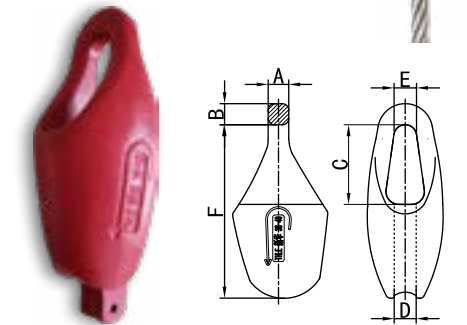
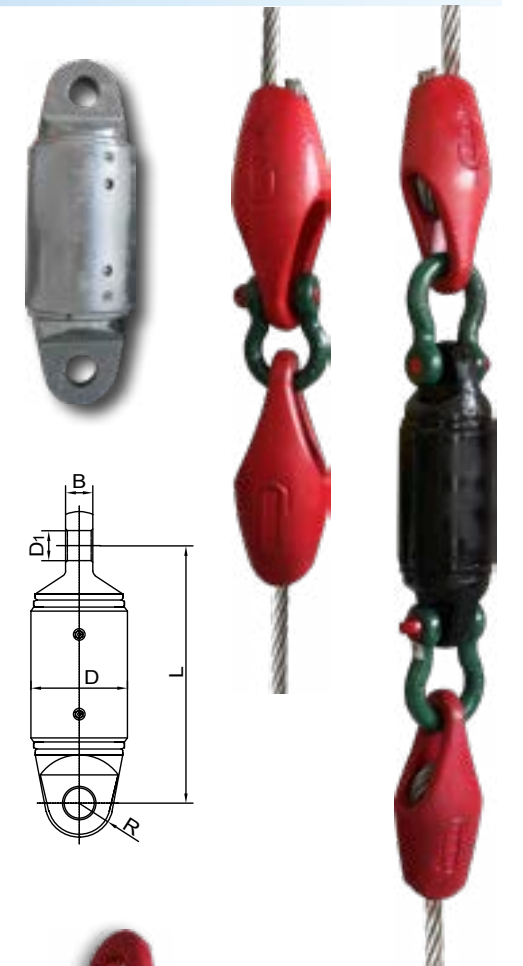
Used for high lifting height wire rope in portal crane. The aim is to release the force of reverse and play the anti-rotation type, which has less failure rate. Our company has obtained the patent certificate.

产品代号 Item No.	产品规格 SWL (t)	主要尺寸 Dimensions(mm)					自重(Kg) Weight
		L	D	D1	B	R	
TH2601	5.0	330	127	43	40	42	27
TH2602	10	414	168	53	48	55	60
TH2603	16	488	193	57	56	66.5	80
TH2604	25	544	228	61	64	65.5	103
TH2605	40	480	230	75	75	60	140
TH2606	50	600	260	85	100	85	176
TH2607	65	610	280	85	120		197
TH2608	70	570	280	85	95		207
TH2609	80	630	310	93	105		283

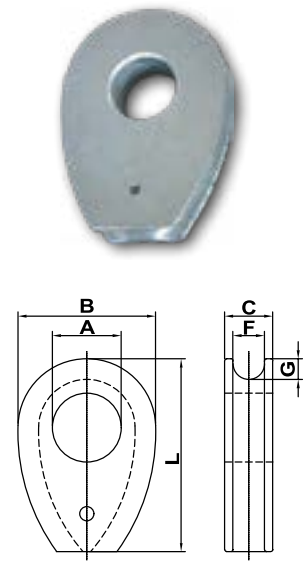
钢丝绳快速连接器 Wire Rope Fast Connector

产品代号 Item No.	适用钢丝绳直径d Rope Diameter	主要尺寸 Dimensions(mm)						自重(Kg) Weight
		A	B	C	D	E	F	
TH2924	24	32	34	136	30	40	286	11.7
TH2928	28	36	36	152	34	44	314	17.4
TH2932	32	40	41	171	38	50	326	23.7
TH2936	36	42	42	177	45	52	365	30.1
TH2940	40	45	46	177	48	52	382	35.3

钢丝绳免浇铸接头 Wire Rope Cast-free Socket

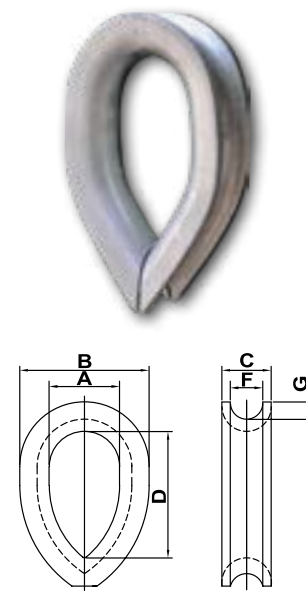


钢丝绳重型套环 Solid Wire Rope Thimble (GB5974.2-86)



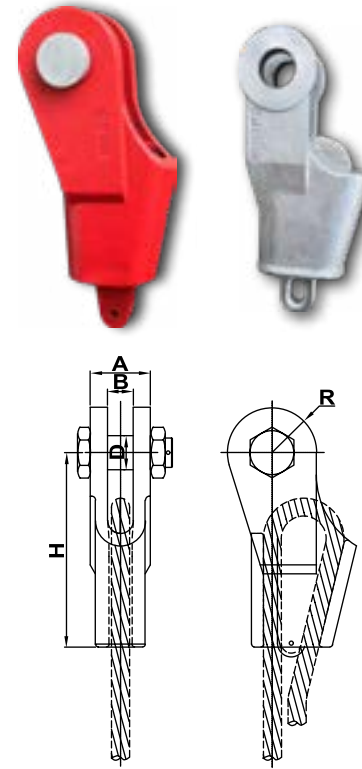
产品代号 Item No.	钢丝绳直径d Rope Diameter	主要尺寸 Dimensions(mm)						自重(Kg) Weight
		F	C	A	B	L	G	
TH2341	16	18.4	28	40	80	112	12	0.8
TH2342	18	20.7	31.5	45	90	126	13.5	1.1
TH2343	20	23.0	35	50	100	140	15	1.4
TH2344	22	25.3	38.5	55	110	154	16.5	2
TH2345	24	27.6	42	60	120	168	18	2.4
TH2346	26	29.9	45.5	65	130	182	19.5	4
TH2347	28	32.2	49	70	140	196	21	6.5
TH2348	32	36.8	56	80	160	224	24	8
TH2349	36	41.4	63	90	180	252	27	10
TH2350	40	46.0	70	100	200	280	30	15
TH2351	44	50.6	77	110	220	308	33	18
TH2352	48	55.2	84	120	240	336	36	22.8
TH2353	52	59.8	91	130	260	364	39	28.5
TH2354	56	64.4	98	140	280	392	42	35.6
TH2355	60	69.0	105	150	300	420	45	48.4

索具套环(钢丝绳普通套环) General Wire Rope Thimble (GB5974.1-86)



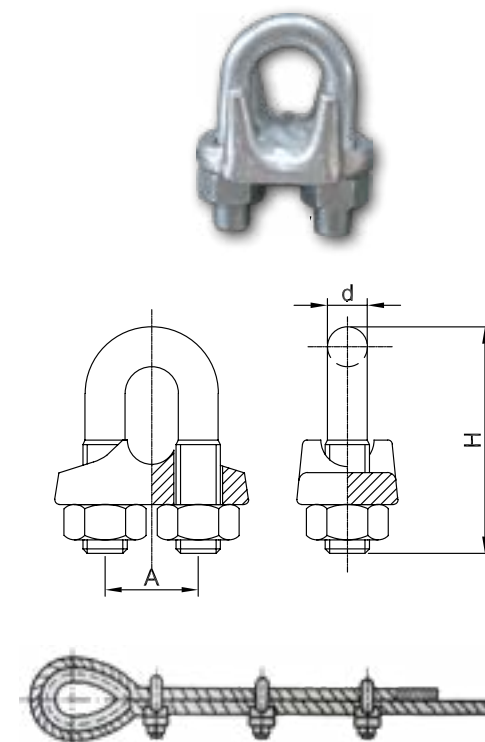
产品代号 Item No.	规格 Type	主要尺寸 Dimensions(mm)						自重(Kg) Weight
		F	C	A	B	D	G	
TH2321	WT12	13	18	30	56	60	7	0.18
TH2322	WT14	15	21	35	65	70	8	0.2
TH2323	WT16	18	24	40	74	80	9	0.25
TH2324	WT18	20	27	45	83	90	10	0.3
TH2325	WT20	22	30	50	92	100	11	0.45
TH2326	WT22	24	33	55	101	110	12	1.1
TH2327	WT25	28	38	62	115	125	14	2
TH2328	WT28	31	42	70	129	140	15.5	2.6
TH2329	WT32	35	48	80	147	160	17.5	3.2
TH2330	WT36	40	54	90	166	180	20	5
TH2331	WT40	44	60	100	184	200	22	5.5
TH2332	WT45	50	68	112	207	225	25	5.8
TH2333	WT50	55	75	125	231	250	28	8.5
TH2334	WT56	62	84	140	258	280	31	12.5
TH2335	WT63	69	94	158	291	315	35	18

楔形接头 Wedge Socket (GB5973-2006) (铸造或焊接)



产品代号 Item No.	钢丝绳直径d Rope Diameter	主要尺寸 Dimensions(mm)					自重(Kg) Weight
		A	B	D	R	H	
TH2406	6	29	13	16	20	90	0.9
TH2408	8	31	15	18	22	100	1.2
TH2410	10	38	18	20	25	120	1.5
TH2412	12	44	20	25	30	155	2.5
TH2414	14	51	23	30	35	180	4
TH2416	16	60	26	34	42	200	6.2
TH2418	18	64	28	36	44	220	9
TH2420	20	72	30	38	47	240	10.5
TH2422	22	76	32	40	52	250	14
TH2424	24	83	35	50	60	270	17
TH2426	26	92	38	55	65	290	22
TH2428	28	94	40	60	70	305	27
TH2432	32	110	44	65	77	370	38
TH2436	36	122	48	65	85	400	58
TH2440	40	140	55	75	90	450	74
TH2444	44	140	60	80	90	480	82
TH2448	48	144	65	85	95	500	88
TH2453	53	162	70	90	100	540	110

模锻钢丝绳夹 Wire Rope Clip (GB5976-86, FGF-G-450)



产品代号 Item No.	规格Type		主要尺寸 Dimensions(mm)			安装数量 Number
	公制Metric	英制Imperial	d	A	H	
TH2606	6-7	1/4	8	19	31	2
TH2608	8	5/16	10	22	43	2
TH2610	9-10	3/8	12	25	48	3
TH2612	11	7/16	13	30	59	3
TH2614	12-13	1/2	13	30	70	3
TH2616	14-15	9/16	14	33	70	3
TH2618	16	5/8	14	33	84	4
TH2620	18-20	3/4	16	38	84	4
TH2622	22	7/8	19	45	96	4
TH2624	24-26	1	19	48	106	4
TH2628	28-30	1 1/8	19	51	115	4
TH2632	32-34	1 1/4	22	59	133	5
TH2636	36	1 3/8	22	60	133	5
TH2640	38-40	1 1/2	22	65	145	5
TH2644	41-42	1 5/8	26	70	160	6
TH2648	44-46	1 3/4	29	78	174	6
TH2652	48-52	2	32	86	195	6
TH2656	56-58	2 1/4	32	99	213	7
TH2660	60	2 1/2	32	105	227	7



高强度直型(D)卸扣(美标卸扣) High-Strength American Standard D-Steel Shackle

新华公司企业标准Q/3203201AZH02-2003

材料采用合金钢整体锻造

安全系数: 1t-25t为6; 25t以上为4

型式有: 内螺纹型(A型)、外螺母型(B型)、内六角沉头型(C型)

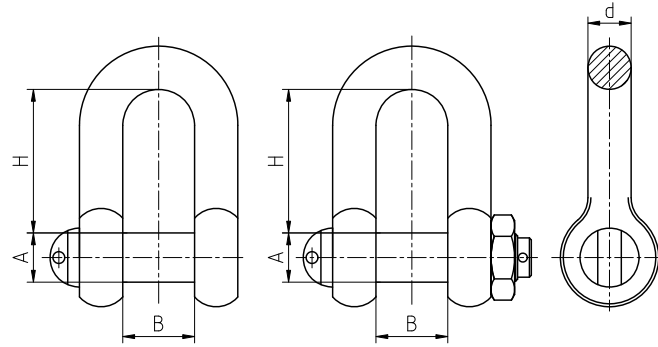
重量轻, 体积小、安全系数高, 便于操作, 优选产品

Overall Forged Alloy Steel

Safety Factor: 6 for 1t-25t, 4 for over 25t

It includes: internal thread type(A), external nut type (B), Internal Hexagonal Countersunk Head Type.

Light Weigh, Small Size, High Sasyety Factor, Easy Operation and Preferred Products



● 技术参数表 Technical Specification



产品代号 Item No.	许用负荷(t) SWL	英制公称(In.) Nominal	主要尺寸 Dimensions(mm)				自重(Kg) Weight
			d	A	B	H	
TH1101	1	3/8	10	12	16	32	0.15
TH1102	2	1/2	13	16	21	41	0.35
TH1103	3.25	5/8	16	20	27	51	0.66
TH1104	4.75	3/4	19	22	32	60	1
TH1105	6.5	7/8	22	25	37	70.5	1.5
TH1106	8.5	1	25	30	43	81	2.4
TH1107	9.5	1-1/8	29	32	46	90	3.2
TH1108	12	1-1/4	32	36	52	100	4.5
TH1109	13.5	1-3/8	35	38	57	112	5.1
TH1110	17	1-1/2	38	42	60	122	8.1
TH1111	25	1-3/4	44	50	73	146	12.2
TH1112	35	2	51	56	83	171	18.2
TH1113	45	2-1/4	56	65	95	180	26
TH1114	55	2-1/2	64	70	105	205	35.4
TH1116	85	3	76	82	121	263	60.6
TH1117	100	3-3/8	86	92	131	298	82.6
TH1118	120	3-1/2	90	95	154	312	100
TH1119	150	4	102	108	160	368	142
TH1120	175	4-1/4	108	120	170	390	170
TH1121	200	4-3/4	120	130	184	420	255
TH1122	250	5	127	140	210	450	310
TH1123	300	6	152	170	220	480	440
TH1124	400	7	178	190	230	500	620



高强度弓型(C)卸扣(美标卸扣) High-Strength American Standard Bow Type Shackle

新华公司企业标准Q/3203201AZH02-2003

材料采用合金钢整体锻造

安全系数: 1t-25t为6; 25t以上为4

型式有: 内螺纹型(A型)、外螺母型(B型)、内外六角自锁型(C型)

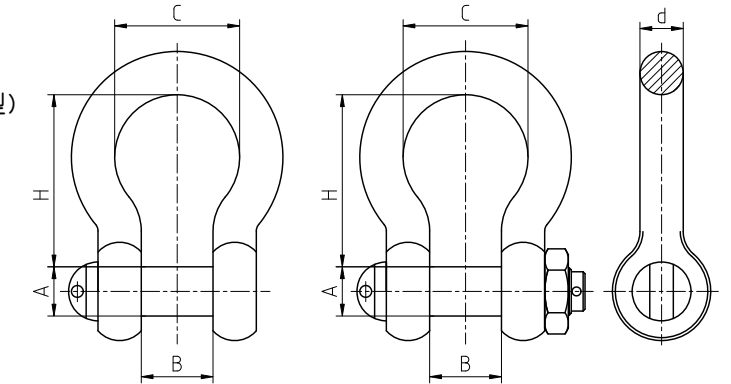
重量轻, 体积小、安全系数高, 便于操作, 优选产品

Overall Forged Alloy Steel

Safety Factor: 6 for 1t-25t, 4 for over 25t

It includes: internal thread type(A), external nut type (B), internal and external hexagonal self-locking type(C).

Light Weigh, Small Size, High Sasyety Factor, Easy Operation and Preferred Products



● 技术参数表 Technical Specification



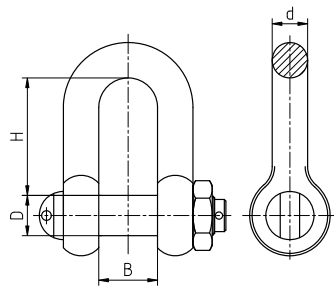
产品代号 Item No.	许用负荷(t) SWL	英制公称(In.) Nominal	主要尺寸 Dimensions(mm)				自重(Kg) Weight	
			d	A	B	C		H
TH1201	1	3/8	10	12	16	26	36	0.2
TH1202	2	1/2	13	16	21	33	46.5	0.43
TH1203	3.25	5/8	16	20	27	42	58	0.83
TH1204	4.75	3/4	19	22	32	51	69.5	1.3
TH1205	6.5	7/8	22	25	37	58	82.5	1.8
TH1206	8.5	1	25	30	43	68	92.5	2.8
TH1207	9.5	1-1/8	29	32	46	74	106.5	3.85
TH1208	12	1-1/4	32	36	52	83	117	5.3
TH1209	13.5	1-3/8	35	38	57	89	133	6.7
TH1210	17	1-1/2	38	42	60	98	146	8.8
TH1211	25	1-3/4	44	50	73	127	175	14.6
TH1212	35	2	51	56	83	146	195	22
TH1213	45	2-1/4	56	65	95	160	233	31
TH1214	55	2-1/2	64	70	105	184	266	43.3
TH1216	85	3	76	82	121	229	335	73.6
TH1217	100	3-3/8	86	92	131	232	356	100
TH1218	120	3-1/2	90	95	154	241	372	114
TH1219	150	4	102	108	160	254	390	165
TH1220	175	4-1/4	108	120	170	260	410	190
TH1221	200	4-3/4	120	130	184	280	440	283
TH1222	250	5	127	140	210	330	470	350
TH1223	300	6	152	170	220	345	520	470
TH1224	400	7	178	190	230	360	572	670



合金钢直型(D)卸扣 D-Steel Shackle with Alloy Steel (CB*3061-87)

材料采用合金钢整体锻造
安全系数为4
安装尺寸较大, 便于操作, 优选产品

Overall forged alloy steel
Safety Factor: 4
Bigger fitting size, easy operation and preferred product



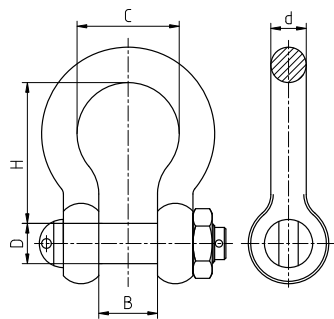
● 技术参数表 Technical Specification

产品代号 Item No.	型号 Type	许用负荷(KN) SWL(tf)	主要尺寸 Dimensions(mm)				自重(Kg) Weight
			d	D	B	H	
TH1301	D5	49(5)	23	26	44	97	1.9
TH1302	D6.3	62(6.3)	26	29	50	109	2.5
TH1303	D8	78(8)	29	33	56	123	4.0
TH1304	D10	398(10)	33	37	63	138	5.0
TH1305	D12.5	123(12.5)	36	42	70	154	6.8
TH1306	D16	157(16)	41	47	79	174	10.8
TH1307	D20	196(20)	46	52	89	195	13.4
TH1308	D25	245(25)	51	59	99	218	21.5
TH1309	D32	314(32)	58	66	112	247	30.9
TH1310	D40	392(40)	65	74	125	275	42.5
TH1311	D50	490(50)	72	83	140	308	59.6
TH1312	D63	617(63)	81	93	157	346	82.8
TH1313	D80	784(80)	91	105	177	390	120.4
TH1314	D100	980(100)	102	118	200	436	172.1
TH1315	D125	1125(125)	114	132	221	490	233.3

合金钢圆型(C)卸扣 Bow Type Shackle with Alloy Steel (CB*3061-87)

材料采用合金钢整体锻造
安全系数为4
安装尺寸较大, 便于操作, 优选产品

Overall forged alloy steel
Safety Factor: 4
Bigger fitting size, easy operation and preferred product



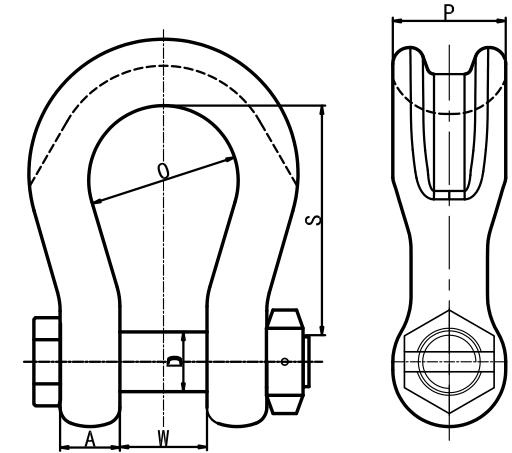
● 技术参数表 Technical Specification

产品代号 Item No.	型号 Type	许用负荷(KN) SWL(tf)	主要尺寸 Dimensions(mm)					自重(Kg) Weight
			d	D	B	C	H	
TH1401	C5	49(5)	26	28	44	75	111	2.6
TH1402	C6	62(6.3)	29	32	50	84	124	3.6
TH1403	C8	78(8)	33	36	56	95	140	5.4
TH1404	C10	398(10)	36	40	63	106	157	7.3
TH1405	C12.5	123(12.5)	41	44	70	119	175	10.3
TH1406	C16	157(16)	46	50	79	135	198	14.3
TH1407	C20	196(20)	51	56	89	150	221	19.9
TH1408	C25	245(25)	57	63	99	168	248	28.1
TH1409	C32	314(32)	65	71	112	190	280	40.9
TH1410	C40	392(40)	72	79	125	213	313	55.4
TH1411	C50	490(50)	81	89	140	248	350	80.3
TH1412	C63	617(63)	91	100	157	267	394	112.3
TH1413	C80	784(80)	102	112	177	301	444	158.6
TH1414	C100	980(100)	114	126	200	340	500	222.1
TH1415	C125	1125(125)	128	141	221	380	560	310.3

宽体卸扣 Wide Shackle

宽体卸扣材料用合金钢整体锻造, 200t以下试验载荷为2倍, 200t及以上试验载荷为工作载荷的1.5倍, 安全系数4倍, 适用于吊带及钢丝绳索具的连接吊装。

Wide shackle uses overall forged alloy steel, its safety factor (testing load to working load): 2 for 200t below, 1.5 for over 200t. It suits for connection of synthetic fiber sling and wire rope sling.

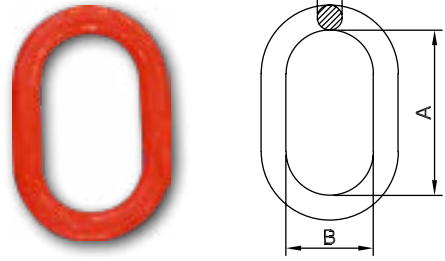


● 技术参数表 Technical Specification

工作负荷限制(t) Reted Capacity	主要尺寸 Dimensions (mm)						自重(Kg) Weight
	W	D	P	A	O	S	
55	85	57	100	55	160	240	32.6
85	110	76	130	75	200	310	78.4
120	130	85	150	85	220	365	110.5
150	140	95	170	90	250	390	154.8
200	150	105	205	100	280	460	215.8
300	185	134	265	120	350	630	451.7
400	220	160	320	145	370	650	758.9
500	250	180	340	160	450	700	1092.2
600	275	200	370	170	490	760	1404.2
700	300	215	400	190	540	780	1703.8
800	325	230	420	200	554	850	1958.3
900	350	255	440	220	584	900	2450
1000	380	270	460	240	614	900	2566.2
1250	430	300	530	260	644	950	3500
1500	460	320	560	280	680	950	4032
2000	500	385	600	320	680	1050	5067

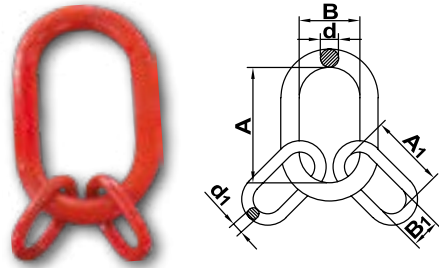


高强度长环 High-Strength Master Link (无缝长环或焊接长环)



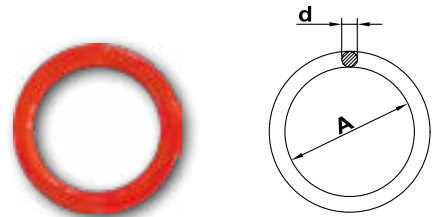
产品代号 Item No.	许用负荷 SWL	主要尺寸 Dimensions(mm)			自重(Kg) Weight
		d	B	A	
TH2121	2.0t	φ25	80	160	2.3
TH2122	3.0t	φ28	80	160	2.9
TH2123	5.0t	φ32	100	180	4.3
TH2124	8.0t	φ36	130	220	6.7
TH2125	10t	φ40	130	220	8.4
TH2126	16t	φ42	150	280	11.3
TH2127	20t	φ45	150	280	13.1
TH2128	32t	φ50	180	350	19.7
TH2129	40t	φ55	180	350	24.1
TH2130	60t	φ65	200	400	39.2
TH2131	80t	φ75	200	400	57.8

子母环 Master Link Assembly



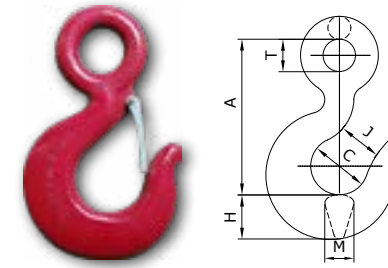
产品代号 Item No.	许用负荷 SWL	主要尺寸 Dimensions(mm)							自重(Kg) Weight
		A	B	d	A ₁	B ₁	d ₁		
TH2201	2.0t	140	80	25	60	32	14	2.1	
TH2202	3.0t	160	80	28	65	36	16	3.0	
TH2203	5.0t	180	100	32	80	45	18	4.6	
TH2204	10t	220	130	40	100	55	22	9.0	
TH2205	20t	280	150	45	110	65	28	14.5	
TH2206	32t	350	180	50	120	70	35	22.9	
TH2207	40t	350	180	55	140	80	40	33.6	

高强度无缝圆环 High-Strength Weldless Ring



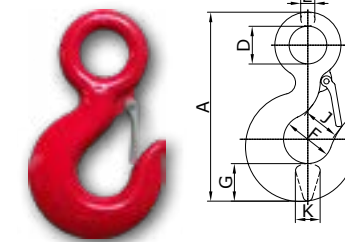
产品代号 Item No.	许用负荷 SWL	主要尺寸 Dimensions(mm)		自重(Kg) Weight
		d	A	
TH2161	2.0t	φ22	120	1.7
TH2162	3.0t	φ26	140	2.6
TH2163	5.0t	φ32	160	4.6
TH2164	8.0t	φ36	175	6.4
TH2165	10t	φ40	220	9.7
TH2166	16t	φ42	220	10.7
TH2167	20t	φ45	250	13.9
TH2168	32t	φ50	300	20.3
TH2169	40t	φ55	330	27.0
TH2170	60t	φ60	330	32.6
TH2171	80t	φ70	360	49.0

国标环眼吊钩 Eye Hook (沪Q/GW3-03-83)



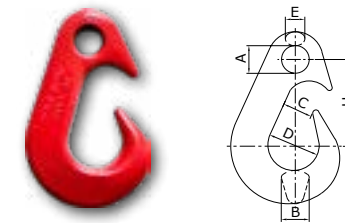
产品代号 Item No.	许用负荷 SWL	主要尺寸 Dimensions(mm)						自重(Kg) Weight
		C	A	M	T	H	J	
TH4101	0.5t	28	76	11	16	22	21	0.9
TH4102	1.0t	36	97	14	20	28	27	1.1
TH4103	1.5t	44	119	18	25	34	33	1.6
TH4104	2.0t	47	127	19	26	37	36	1.9
TH4105	2.5t	53	144	21	30	42	40	2.6
TH4106	3.0t	57	150	30	35	43	48	3.5
TH4107	5.0t	73	195	35	45	48	60	6.3
TH4108	8.0t	90	241	46	55	65	71	12
TH4108	12t	100	265	50	60	70	78	14.5
TH4110	16t	110	300	56	75	76	84	21.5

美标吊钩 US Type Hook



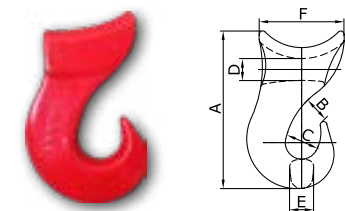
产品代号 Item No.	许用负荷 SWL	主要尺寸 Dimensions(mm)							自重(Kg) Weight
		A	D	E	F	G	K	J	
TH4201	1.0t	112	19	9	32	19	16	23	0.27
TH4202	1.5t	129	23	11	35	21	18	24	0.35
TH4203	2.0t	143	29	14	38	25	22	25	0.65
TH4204	3.0t	162	32	15	41	29	24	29	0.86
TH4205	5t	201	40	18	50	37	33	37	1.75
TH4206	7t	256	51	23	64	46	42	44	3.5
TH4207	11t	316	62	28	76	57	45	58	6.3
TH4208	15t	354	72	33	83	66	49	66	7.5

高强度鼻型钩 High-Strength Nose Hook



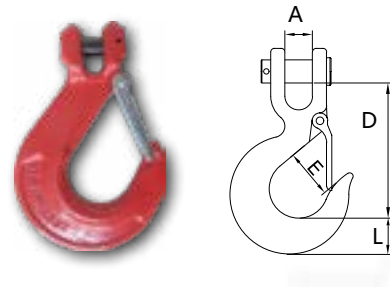
产品代号 Item No.	许用负荷 SWL	主要尺寸 Dimensions(mm)						自重(Kg) Weight
		A	B	C	D	E	H	
TH4301	1.0t	17	20	25	32	16	80	1.4
TH4302	2.0t	24	24	32	42	18	90	2.8
TH4303	3.0t	31	28	40	56	22	102	4.0
TH4304	5.0t	38	38	40	70	33	140	5.0
TH4305	8.0t	46	46	56	80	38	168	8.0
TH4306	12t	50	50	64	90	42	188	12.5
TH4307	20t	56	64	72	116	48	202	18.5

弯孔钩(钢丝绳滑钩) Choker Hook



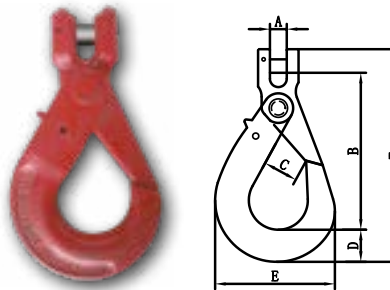
产品代号 Item No.	许用负荷 SWL	适用钢丝绳直径 Diameter	主要尺寸 Dimensions(mm)					自重(Kg) Weight	
			A	B	C	D	E		F
TH4401	3.0t	φ24	186	31	40	27	28	104	2.5
TH4402	5.0t	φ28	220	38	48	32	32	124	4.5
TH4403	8.0t	φ32	248	42	54	36	36	138	7.0

合金钢链钩 Clevis Slip Hook



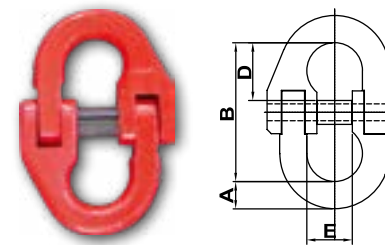
产品代号 Item No.	适用(T8)链条 Chain(mm)	工作载荷 SWL	主要尺寸Dimensions(mm)			
			A	D	L	E
TH4501	6.0	1.12t	7.5	79	18	23
TH4502	8.0	2.0t	9.5	98	22	27
TH4503	10	3.15t	12	121	29	34
TH4504	13	5.3t	15	147	37	44
TH4505	16	8.0t	17.5	166	42	48
TH4506	20	12.5t	25	200	50	56

羊角自锁安全钩 Clevis Sling Hook



产品代号 Item No.	适用(T8)链条 Chain(mm)	工作载荷 SWL	主要尺寸Dimensions)(mm)					
			A	B	C	D	E	F
TH4601	6.0	1.12t	7.5	96	28	20	70	131
TH4602	8.0	2.0t	9.5	123	35.5	26	90	166
TH4603	10	3.15t	12	144	45	30	109	196.5
TH4604	13	5.3t	15	182	53.5	40.5	138.5	251
TH4605	16	8.0t	17.5	217	62	50.5	170.5	303
TH4606	20	12.5t	25	235	76.5	62	192.5	337.5

链条连接环(双环扣) Connecting Link



产品代号 Item No.	英制公称(in) Normal Size	许用负荷 SWL		主要尺寸Dimensions(mm)				适用链径 Chain Diameter
		(t)	(Lbs)	A	B	D	E	
TH2221	1/4	1.2	3500	9	48	20	16	φ8-10
TH2222	5/16	2.0	4500	10	54	22	17.5	φ10-12
TH2223	3/8	3.2	7100	13	63	26	22	φ12-14
TH2224	1/2	5.4	12000	16	87	36	29	φ14-16
TH2225	5/8	8.2	18100	19	105	44	36	φ18-20
TH2226	3/4	12.5	28300	24	120	52	41	φ22-24
TH2227	7/8	15	34200	27	140	58	51	φ25-28
TH2228	1	21	47700	31	152	63	57	φ30-36
TH2229	1 1/4	32	72300	38	188	77	65	φ38-45

索具吊钩 Rigging Hook



链条吊环 Chain link

适应链条(T8) Chain (mm)	额定载荷 SWL(t)	净重(Kg) Weight
φ 10	3.15t	0.74
φ 13	5.3t	1.76
φ 16	8t	2.80



链条调节器 Clevis Clutch

适应链条(T8) Chain (mm)	额定载荷 SWL(t)	净重(Kg) Weight
φ 8	2t	0.37
φ 10	3.15t	0.97
φ 13	5.3t	2.01
φ 16	8t	3.32



链条欧姆环 Omega Chain Link

适应链条(T8) Chain (mm)	额定载荷 SWL(t)	净重(Kg) Weight
φ 8	2t	0.22
φ 10	3.15t	0.36
φ 13	5.3t	0.71
φ 16	8t	1.30



羊角抓钩 Clevis Sling Hook

适应链条(T8) Chain (mm)	额定载荷 SWL(t)	净重(Kg) Weight
φ 8	2t	0.32
φ 10	3.15t	0.73
φ 13	5.3t	1.60
φ 16	8t	2.80



大开口钩 Large Opening Hook

适应链条(T8) Chain (mm)	额定载荷 SWL(t)	净重(Kg) Weight
φ 8	2t	1.09
φ 10	3.15t	2.04
φ 13	5.3t	3.22
φ 16	8t	5.03



旋转自锁钩 Revolve Selflock Hook

适应链条(T8) Chain (mm)	额定载荷 SWL(t)	净重(Kg) Weight
φ 8	2t	1.10
φ 10	3.15t	2.00
φ 13	5.3t	4.00
φ 16	8t	7.30



链条滑钩 Chain Choker Hook

适应链条(T8) Chain (mm)	额定载荷 SWL(t)	净重(Kg) Weight
φ 8	2t	0.4
φ 10	3.15t	0.8
φ 13	5.3t	2.0
φ 16	8t	3.1



集装箱吊钩 Container Hook

适应链条(T8) Chain (mm)	额定载荷 SWL(t)	净重(Kg) Weight
	8.5t	3.9
	15t	10



纸浆钩 Paper Pulp Hook

适应链条(T8) Chain (mm)	额定载荷 SWL(t)	净重(Kg) Weight
	2t	2.55
	3t	3.20



S钩 S Hook

适应链条(T8) Chain (mm)	额定载荷 SWL(t)	净重(Kg) Weight
	3t	1.6
	5t	2.6
	8t	6.0



纤维带钩 Tetile Lifting Sling

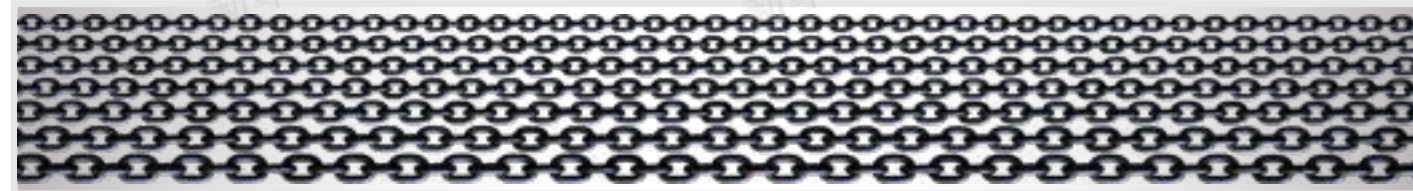
适应链条(T8) Chain (mm)	额定载荷 SWL(t)	净重(Kg) Weight
	2t	3.0
	3t	4.0



自动脱钩 Auto-break Hook

适应链条(T8) Chain (mm)	额定载荷 SWL(t)	净重(Kg) Weight
	2t	5.50
	3t	6.73
	5t	8.80

链条索具系列 Chain Sling

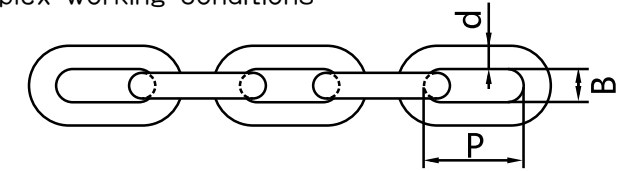


T8(80) 高强度起重圆环链 T8(80) High-Strength Lifting Chain Sling

参照JB/T8108.2-1999, GB/T12718-91)

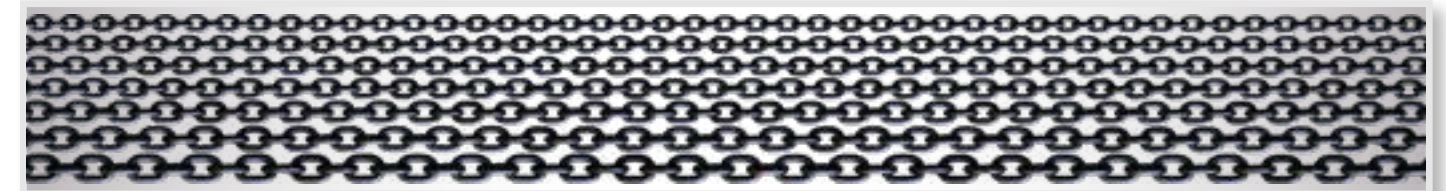
T8(80)级起重锚链强度高、耐磨损、重量轻,适用于较为复杂的工况中
根据使用工况的安全要求,可选用安全系数4-6。

High strength, less abrasion, light weight and used for complex working conditions
Use safety factors 4-6 accordingly.

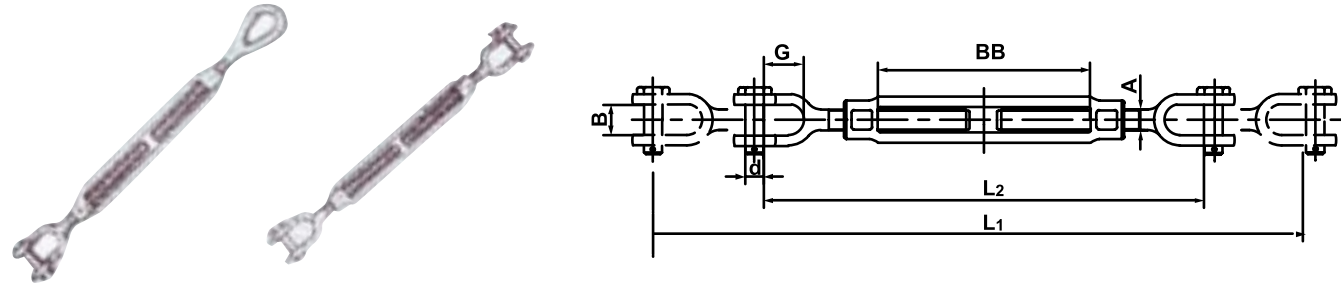


● 技术参数表 Technical Specification

链径 Chain Diameter(d)	基本尺寸 Dimensions (mm)		许用负荷(t) SWL	最小破断负荷(KN) Minimum Breaking Load	重量(Kg/m) Weight
	内宽 Inside Width (B)	节距 Pitch (P)			
6	8	18	0.6	35.4	0.86
7	9	21	0.8	49.3	1.17
8	10.4	24	1.0	63.3	1.53
10	13	30	1.5	99.0	2.39
12	16	36	2.5	141.3	3.4
12	16	45	2.5	141.3	3.15
13	17	39	2.7	159.0	4.03
14	18	42	3.2	191.0	4.66
16	21	48	5.0	251.7	6.11
18	23	54	5.5	320.5	7.70
20	26	60	6.5	394.7	9.53
22	28	66	8.0	478.0	11.50
24	32	72	10	568.0	13.77
26	39	91	12	585.0	15.40
28	42	98	15	646.0	17.86
30	45	105	17	735.0	20.50
32	48	112	20	816.0	23.33
34	51	119	22	973.0	26.33
36	54	126	25	1050.0	29.52
38	57	133	28	1160.0	32.90
40	60	140	30	1231.0	36.45
42	63	147	35	1400.0	40.19
44	66	154	37	1490.0	44.11
46	69	161	40	1680.0	48.21
48	72	168	45	1770.0	52.49
50	75	175	50	1960.0	56.96



美标UU型开式螺旋扣 American Standard UU Type Open Turnbuckle



产品代号 Item No.	型号 (in.) Type	使用符合(t) SWL	重量(Kg/件) Weight Each	尺寸参数 Dimensions (mm)						
				A	B	G	L ₁	L ₂	d	BB
TH3101	1/4×4	0.23	0.16	6.35	11.43	15.75	276.86	175.26	6.35	101.6
TH3102	5/16×4-1/2	0.36	0.24	7.87	12.70	22.10	313.94	212.34	6.35	114.3
TH3103	3/8×6	0.54	0.37	9.65	13.72	22.10	409.96	257.56	7.87	152.4
TH3104	1/2×6	1.00	0.71	12.70	13.97	26.92	469.90	292.10	9.65	152.4
TH3105	1/2×9	1.00	0.79	12.70	13.97	26.92	622.30	368.30	9.65	228.6
TH3106	1/2×12	1.00	1.09	12.70	13.97	26.92	774.70	444.50	9.65	304.8
TH3107	5/8×6	1.59	1.23	16.00	20.83	33.27	509.27	325.12	12.70	152.4
TH3108	5/8×9	1.59	1.56	16.00	20.83	33.27	661.67	401.32	12.70	228.6
TH3109	5/8×12	1.59	1.77	16.00	20.83	33.27	814.07	477.52	12.70	304.8
TH3110	3/4×6	2.36	1.86	19.05	26.16	38.10	546.10	355.60	15.75	152.4
TH3111	3/4×9	2.36	2.48	19.05	26.16	38.10	698.50	431.80	15.75	228.6
TH3112	3/4×12	2.36	2.98	19.05	26.16	38.10	850.90	508.00	15.75	304.8
TH3113	3/4×18	2.36	3.64	19.05	26.16	38.10	1155.7	660.40	15.75	457.2
TH3114	7/8×12	3.27	3.71	22.35	31.24	44.45	891.79	542.54	19.05	304.8
TH3115	7/8×18	3.27	4.89	22.35	31.24	44.45	1196.6	694.94	19.05	457.2
TH3116	1×6	4.54	4.62	25.40	33.27	52.32	627.89	424.69	22.35	152.4
TH3117	1×12	4.54	5.68	25.40	33.27	52.32	932.69	577.09	22.35	304.8
TH3118	1×18	4.54	6.87	25.40	33.27	52.32	1237.3	729.49	22.35	457.2
TH3119	1×24	4.54	8.20	25.40	33.27	52.32	1542.3	881.89	22.35	609.6
TH3120	1-1/4×12	5.89	9.34	31.75	47.24	71.37	1011.9	643.64	28.45	304.8
TH3121	1-1/4×18	6.89	11.2	31.75	47.24	71.37	1316.7	796.04	28.45	457.2
TH3122	1-1/4×24	6.89	12.8	31.75	47.24	71.37	1621.5	948.44	28.45	609.6
TH3123	1-1/2×12	9.71	13.9	38.10	57.15	71.37	1054.1	673.10	35.05	304.8
TH3124	1-1/2×18	9.71	16.7	38.10	57.15	71.37	1358.9	825.50	35.05	457.2
TH3125	1-1/2×24	9.71	18.9	38.10	57.15	71.37	1663.7	977.90	35.05	609.6
TH3126	1-3/4×18	12.70	24.5	44.45	66.04	85.85	1355.9	898.65	41.15	457.2
TH3127	1-3/4×24	12.70	28.7	44.45	66.04	85.85	1660.7	1051.1	41.15	609.6
TH3128	2×24	16.78	42.7	50.80	66.55	93.73	1766.3	1156.7	50.80	609.6
TH3129	2-1/2×24	27.22	74.8	63.50	77.72	112.78	1853.7	1244.1	57.15	609.6
TH3130	2-2/3×24	34.02	89.8	69.85	93.47	106.43	1898.6	1289.1	69.85	609.6

美标OO、CC型开式螺旋扣 American Standard OO/CC Type Open Turnbuckle



产品代号 Item No.	型号 (in.) Type	使用符合 SWL(t)	重量Weight Each(Kg/件)		尺寸参数 Dimensions (mm)							
			OO型	CC型	A	L ₃	L ₄	R	S	L ₅	L ₆	D
TH3201	1/4×4	0.23	0.12	0.14	6.35	229.7	198.1	19.81	8.61	282.45	180.85	11.43
TH3202	5/16×4-1/2	0.36	0.20	0.21	7.87	344.4	230.1	23.88	11.18	325.37	211.07	12.70
TH3203	3/8×6	0.54	0.34	0.35	9.65	443.7	291.3	28.45	13.46	419.10	266.70	14.22
TH3204	1/2×6	1.00	0.51	0.73	12.70	510.0	332.2	36.58	18.29	478.03	300.23	16.76
TH3205	1/2×9	1.00	0.70	0.83	12.70	662.4	408.4	36.58	18.29	630.43	376.43	16.76
TH3206	1/2×12	1.00	0.97	1.03	12.70	814.8	484.6	36.58	18.29	782.83	452.63	16.76
TH3207	5/8×6	1.59	1.28	1.25	16.00	557.0	372.9	44.45	22.35	520.70	336.55	22.28
TH3208	5/8×9	1.59	1.49	1.53	16.00	709.4	449.1	44.45	22.35	673.10	412.75	22.28
TH3209	5/8×12	1.59	1.55	1.59	16.00	861.8	525.3	44.45	22.35	825.50	488.95	22.28
TH3210	3/4×6	2.36	1.70	1.76	19.05	606.6	416.1	53.09	25.40	568.45	377.95	24.89
TH3211	3/4×9	2.36	2.09	2.39	19.05	759.0	492.3	53.09	25.40	720.85	454.15	24.89
TH3212	3/4×12	2.36	2.49	2.46	19.05	911.4	568.5	53.09	25.40	873.25	530.35	24.89
TH3213	3/4×18	2.36	3.26	3.68	19.05	1216.2	720.9	53.09	25.40	1178.1	682.75	24.89
TH3214	7/8×12	3.27	3.27	3.67	22.35	941.60	592.3	60.45	31.75	914.40	565.15	28.70
TH3215	7/8×18	3.27	4.51	4.51	22.35	2008.4	744.7	60.45	31.75	1219.2	717.55	28.70
TH3216	1×6	4.54	4.10	4.23	25.40	710.4	507.2	76.20	36.58	651.00	447.80	31.79
TH3217	1×12	4.54	5.22	5.41	25.40	1515.2	659.6	76.20	36.58	955.8	600.20	31.79
TH3218	1×18	4.54	6.35	6.35	25.40	1320.0	812.0	76.20	36.58	1260.6	752.60	31.79
TH3219	1×24	4.54	7.82	7.82	25.40	1624.8	964.4	76.20	36.58	1565.4	905.00	31.79
TH3220	1-1/4×12	5.89	8.62	9.33	31.75	1087.4	719.0	90.42	45.97	1027.2	658.88	38.10
TH3221	1-1/4×18	6.89	10.4	10.43	31.75	1392.2	861.2	90.42	45.97	1332.0	811.28	38.10
TH3222	1-1/4×24	6.89	12.2	12.25	31.75	1697.0	1023.9	90.42	45.97	1636.84	936.68	47.75
TH3223	1-1/2×12	9.71	12.5	12.47	38.10	115.7	744.7	103.12	53.85	1116.1	735.08	47.75
TH3224	1-1/2×18	9.71	14.1	14.06	38.10	1460.5	927.1	103.12	53.85	1421.4	887.48	47.75
TH3225	1-1/2×24	9.71	17.0	17.01	38.10	1765.3	1079.5	103.12	53.85	1725.7	1039.9	
TH3226	1-3/4×18	12.70	23.8		44.45	1475.5	1000.3	117.35	60.45			
TH3227	1-3/4×24	12.70	26.3		44.45	1762.3	1152.7	117.35	60.45			
TH3228	2×24	16.78	38.7		50.80	1922.5	1312.9	146.05	68.33			
TH3229	2-1/2×24	27.22	65.4		63.50	1996.9	2387.3	165.10	79.25			
TH3230	2-2/3×24	34.02	88.0		69.85	2057.4	1447.8	177.80	82.55			

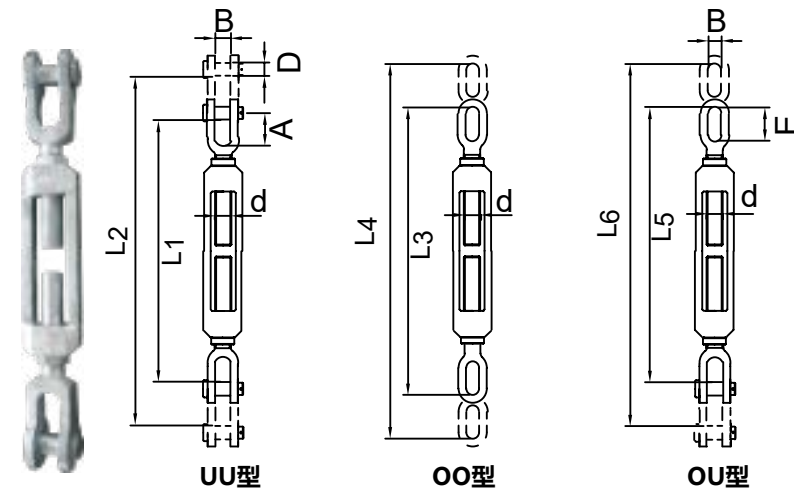
船用开式索具螺旋扣 Open Turnbuckle for Marine Use

CB/T3818-1999 (原GB561-87)

CB/T3818-1999(Original Standard GB561-87)

螺旋扣广泛应用于起重机械的索具连接调节, 以及结构之间的连接涨紧, 表面热镀锌耐腐蚀性更好, 分为普通M级和高强度P级, 安全系数4。

Turnbuckle is widely used for connecting riggings on cranes and structures. It has corrosiveness resistance due to hot-dip coating Zin. It has common M type and strengthened P type. Safety factor is 4.



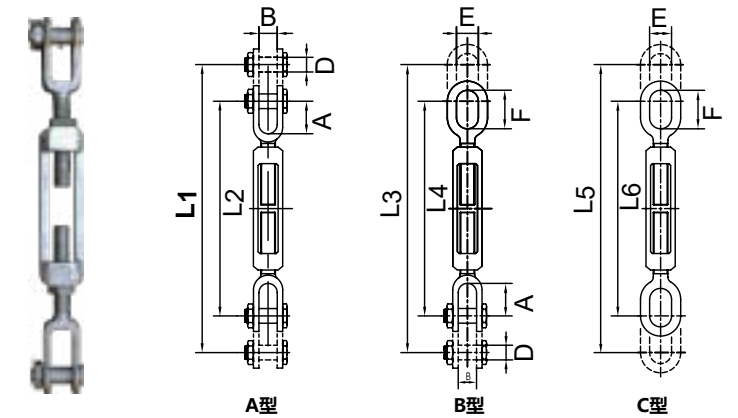
● 技术参数表 Technical Specification

产品代号 Item No.	许用负荷SWL		螺杆 直径d	UU型	OO型	OU型	主要尺寸 Dimensions(mm)				重量(kg) Weight
	M级	P级		L ₁ -L ₂	L ₃ -L ₄	L ₅ -L ₆	A	B	D	E	
TH3301	0.12t	0.18t	M6	155-230	140-245	160-235	18	10	6	19	0.2
TH3302	0.25t	0.4t	M8	210-325	230-345	220-335	20	12	8	24	0.4
TH3303	0.4t	0.6t	M10	230-340	255-365	240-355	25	14	10	28	0.5
TH3304	0.6t	0.8t	M12	280-420	310-450	295-435	30	16	12	34	0.9
TH3305	0.9t	1.2t	M14	295-435	325-465	310-450	36	18	14	40	1.1
TH3306	1.2t	1.7t	M16	355-525	390-560	375-540	42	22	16	47	1.8
TH3307	1.7t	2.1t	M18	375-540	415-580	395-560	50	25	18	55	2.3
TH3308	2.1t	2.7t	M20	420-605	470-655	445-630	55	27	20	60	3.1
TH3309	2.7t	3.5t	M22	445-630	495-680	470-655	62	30	23	70	4.1
TH3310	3.5t	4.5t	M24	505-720	575-785	540-755	65	32	26	80	6.2
TH3311	4.5t	5.5t	M27	545-755	610-820	575-790	78	36	30	90	7.3
TH3312	6.0t	7.5t	M33	635-880	700-950	665-915	85	40	32	100	12.1
TH3313	7.5t	9.5t	M36	655-900	730-975	690-940	95	44	38	105	15.1
TH3314	9.5t	12t	M39	725-985	820-1085	770-1035	105	49	41	120	21.3
TH3315	11t	14.5t	M45	765-1025	855-1120	810-1075	120	52	45	130	24.4
TH3316	14t	18t	M48	845-1135	940-1260	890-1180	130	58	50	140	35.9
TH3317	17.5t	22t	M56	870-1160	970-1260	920-1210	140	65	57	150	43.8
TH3318	21t	25t	M60	940-1250	1085-1390	1010-1320	150	70	61	170	57.2
TH3319	21t	32t	M64	975-1280	1130-1435	1055-1360	160	75	65	180	65.8

高强度开式螺旋扣 High-Strength Open Turnbuckle (Q320201 AZH03-2003)

高强度开式螺旋扣, 载荷大、重量轻、调节行程大, 适用于大型港口机械的涨紧调节、防风拉索和固定装置, 合金钢制造, 安全系数3。

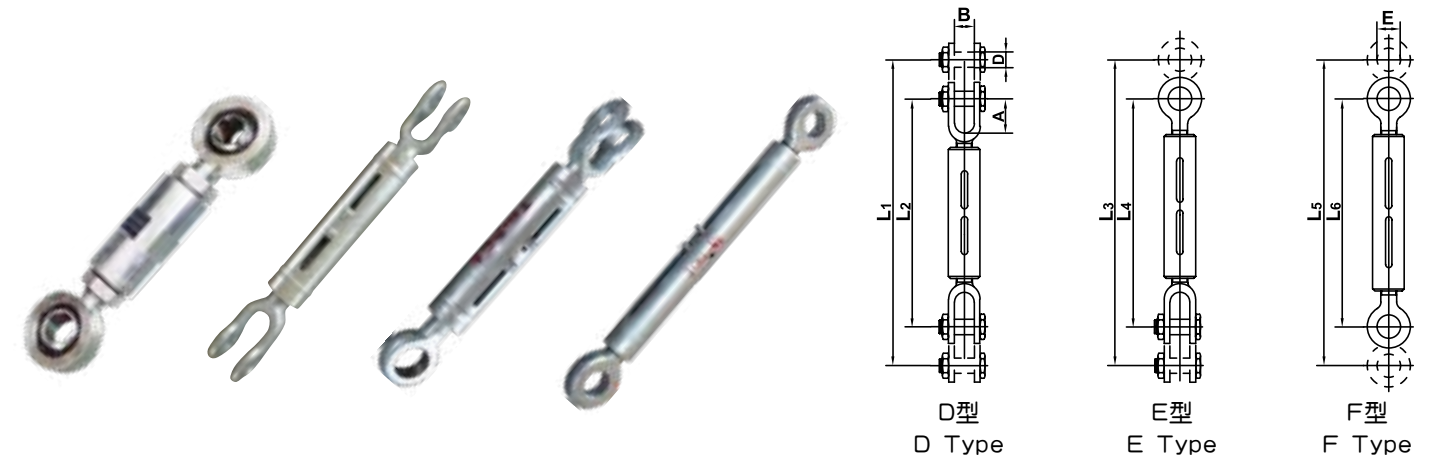
High-strength open turnbuckle has big load, light weight, big adjustment and is widely used for connecting riggings on cranes, wind resistant sling and fixing structures. It is made of alloy steel and safety factor is 3.



高强度闭式螺旋扣 High-Strength Closed Turnbuckle (Q320201 AZH03-2003)

高强度闭式螺旋扣, 载荷大、重量轻、调节行程大, 适用于大型港口机械的涨紧调节、防风拉索和固定装置, 合金钢制造, 安全系数3。

High-strength closed turnbuckle has big load, light weight, big adjustment and is widely used for connecting riggings on cranes, wind resistant sling and fixing structures. It is made of alloy steel and safety factor is 3.



防风螺旋扣 Windproof Tie Down

用于港机防风装置中, 结构形式有:

A型: 防风系固型

B型: 防风系缆型

C型: 防风系链型

固定载荷有: 25t、40t、60t、80t、100t、120t、180t、250t、300t、400t

专利号: 201210465050.6

Used for equipment to prevent wind in port crane

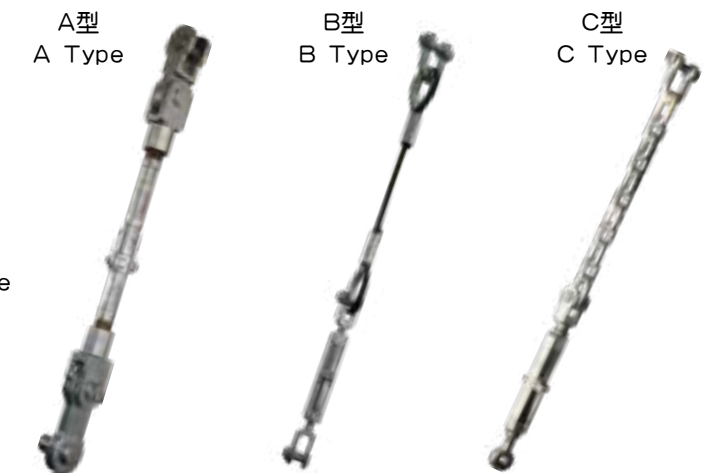
Type A: Solid Connection

Type B: Cable Connection

Type C: Chain Connection

Fixed Load: 25t、40t、60t、80t、100t、120t、180t、250t、300t、400t

Patent No.: 201210465050.6

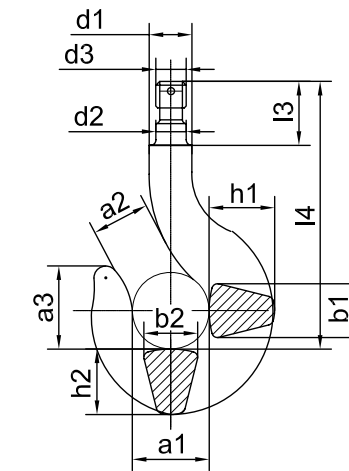


起重机单钩总成 Lifting Single Hook Block



起重吊钩 Lifting Single Hook

GB/T 10051《起重吊钩》-2010



直柄单钩尺寸表
Lifting Single Hook Dimensions Table

钩号	d ₁	d ₂	d ₃	l ₃	l ₄	a ₁	a ₂	a ₃	b ₁	b ₂	h ₁	h ₂	自重
10	75	64	TY64×8	135	446	112	90	127	100	85	125	106	40
12	85	72	TY72×8	157	504.5	125	100	143	112	95	140	118	55
16	95	80	TY80×10	170	576	140	112	160	125	106	160	132	77
20	106	90	TY90×10	187	645	160	125	180	140	118	180	150	112
25	118	100	TY100×12	207	716	180	140	202	160	132	200	170	160
32	132	110	TY110×12	232	788	200	160	225	180	150	224	190	220
40	150	125	TY125×14	257	885	224	180	252	200	170	250	212	310
50	170	140	TY140×16	280	969	250	200	285	224	190	280	236	430
63	190	160	TY160×18	322	1100	280	224	320	250	212	315	265	600
80	212	180	TY180×20	357	1245	315	250	358	280	236	355	300	860
100	236	200	TY200×22	402	1388	355	280	402	315	265	400	335	1220
125	265	225	TY225×24	465	1565	400	315	450	355	300	450	375	1740
160	300	250	TY250×28	510	1761	450	355	505	400	335	500	425	2480
200	335	280	TY280×32	613	2012	500	400	565	450	375	560	475	3420
250	375	320	TY320×36	690	2272	560	450	635	500	425	630	530	4800

上表所列各个钩号的基本参数，选择钩号时需根据起重机的繁重情况确定工作级别：

- 1、较低工作级别的起重机等级一般为M3、M4级，如一般起重机、汽车吊、建筑起重机等；吊钩材料可选用M级或P级材质：DG20、DG20Mn、Q345qD、Q420qD等。
- 2、中等工作级别的起重机等级一般为M5、M6级，如港口门机、船用起重机、造船安装起重机、重型车间等吊钩材料可选用（S）级或T级材质DG20Mn、Q420qD、35CrMo等。
- 3、繁重工作级别的起重机等级一般为M6、M7、M8级，如冶金起重机、集装箱起重机和低温工况起重机等吊钩材质可选用T级或（V）级35CrMo、34CrNi1Mo、34Cr2Ni2Mo及30Cr2Ni2Mo等。
- 4、钩号和选取按照GB/T10051.1-2010，首先确定环境温度、工作级别、材料等级，然后确定钩号。

Please choose different type according to the load level in the list above:

- 1、 Lower level cranes, such as common crane, motocrane and construction crane, normally uses M3 or M4. Choose M or P level material, such as DG20, DG20Mn, Q345qD, Q420qD, etc.
- 2、 Middle level cranes, such as portal crane, Ship-Mounted Crane, Shipbuilding crane, heavy workshop, normally uses M5 or M6. Choose (S) or T level material, such as DG20Mn, Q420qD, 35CrMo, etc.
- 3、 Heavy work level cranes, such as metallurgy crane, container crane and low temperature crane, normally uses M6, M7 or M8. Choose (V) level material, such as 35CrMo, 34CrNi1Mo, 34Cr2Ni2Mo and 30Cr2Ni2Mo.
- 4、 Measure environment temperature, work load level, material first before choosing types of hooks (GB/T10051.1-2010).

起重机山字吊钩总成 Lifting Double Hook Block

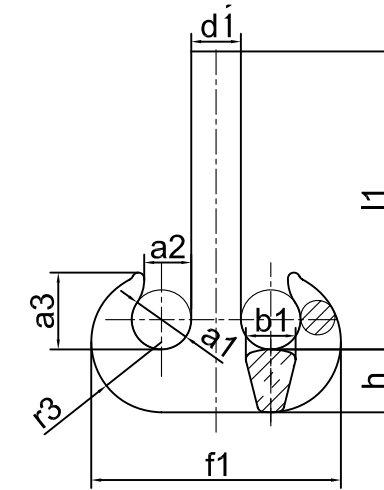


2016年, 海西重机中铁3600t浮吊项目
所有吊总成和钩滑轮组有新华起重工具提供
In 2016, CSIC Floating Crane (3600t)
All hook block and pulleys are provided by THLE.



山字钩 Lifting Double Hook

GB/T 10051《起重吊钩》-2010



直柄双钩毛坯尺寸表
Lifting Double Hook Dimensions Table

钩号	a_1	a_2	a_3	b_1	d_1	h	l_1	r_3	f_1	自重
10	90	71	116	75	75	95	450	106	377	36.3
12	100	80	130	85	85	106	510	118	421	50.5
16	112	90	146	95	95	118	580	132	471	71.1
20	125	100	163	106	106	132	650	150	531	99.5
25	140	112	182	118	118	150	715	170	598	138
32	160	125	205	132	132	170	790	190	672	197
40	180	140	230	150	150	190	885	212	754	286
50	200	160	260	170	170	212	965	236	842	394
63	224	180	292	190	190	236	1090	265	944	547
80	250	200	325	212	212	265	1235	300	1062	759
100	280	224	364	236	236	300	1375	335	1186	1060
125	315	250	408	265	265	335	1550	375	1330	1491
160	355	280	458	300	300	375	1745	425	1505	2115
200	400	315	515	335	335	425	1998	475	1685	3015
250	450	355	580	375	375	475	2250	530	1885	4268

上表所列各个钩号的基本参数, 选择钩号时需根据起重机的繁重情况确定工作级别:

- 1、较低工作级别的起重机等级一般为M3、M4级, 如一般起重机、汽车吊、建筑起重机等; 吊钩材料可选用M级或P级材质: DG20、DG20Mn、Q345qD、Q420qD等。
- 2、中等工作级别的起重机等级一般为M5、M6级, 如港口门机、船用起重机、造船安装起重机、重型车间等吊钩材料可选用(S)级或T级材质DG20Mn、Q420qD、35CrMo等。
- 3、繁重工作级别的起重机等级一般为M6、M7、M8级, 如冶金起重机、集装箱起重机和低温工况起重机等吊钩材质可选用T级或(V)级35CrMo、34CrNi1Mo、34Cr2Ni2Mo及30Cr2Ni2Mo等。
- 4、钩号和选取按照GB/T10051.1-2010, 首先确定环境温度、工作级别、材料等级, 然后确定钩号。

Please choose different type according to the load level in the list above:

- 1、Lower level cranes, such as common crane, motocrane and construction crane, normally uses M3 or M4. Choose M or P level material, such as DG20, DG20Mn, Q345qD, Q420qD, etc.
- 2、Middle level cranes, such as portal crane, Ship-Mounted Crane, Shipbuilding crane, heavy workshop, normally uses M5 or M6. Choose (S) or T level material, such as DG20Mn, Q420qD, 35CrMo, etc.
- 3、Heavy work level cranes, such as metallurgy crane, container crane and low temperature crane, normally uses M6, M7 or M8. Choose (V) level material, such as 35CrMo, 34CrNi1Mo, 34Cr2Ni2Mo and 30Cr2Ni2Mo.
- 4、Measure environment temperature, work load level, material first before choosing types of hooks (GB/T10051.1-2010).

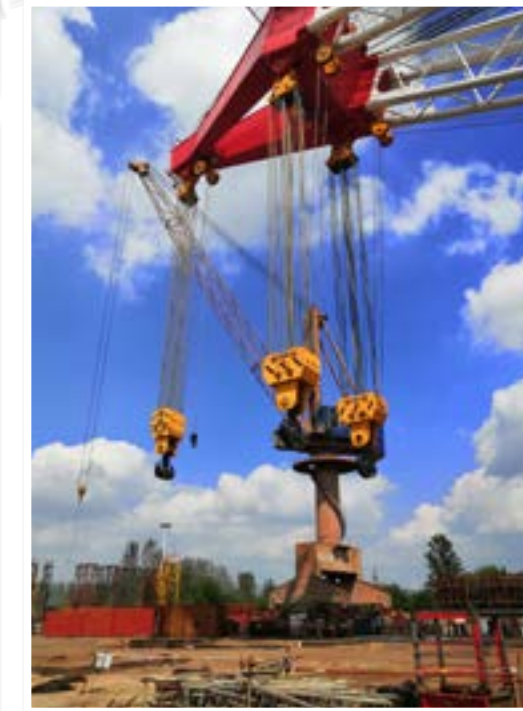
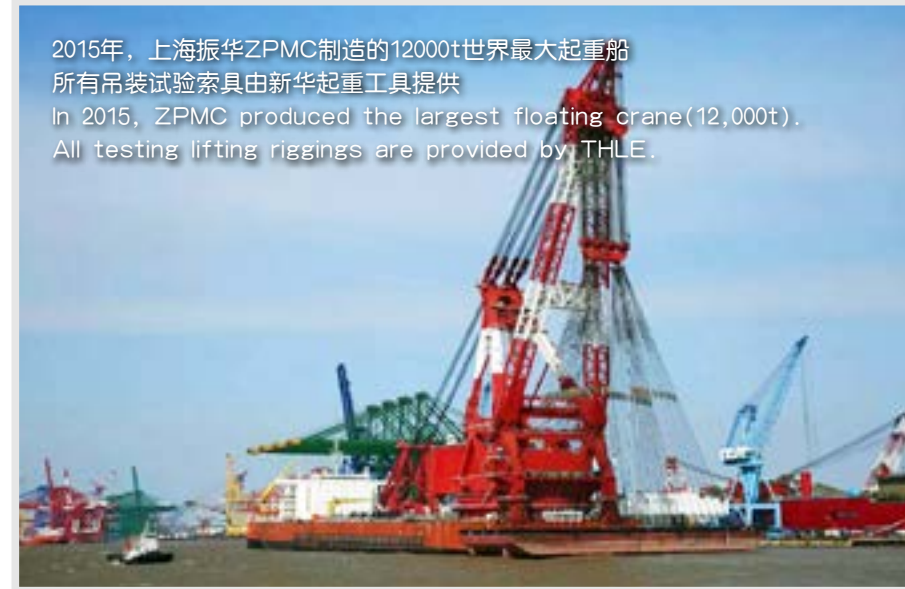
四爪钩 Four-Claw Lifting Hook

2016年，上海振华ZPMC制造的1000t铺管起重船，所用1000t四爪主钩由新华起重工具提供
In 2016, ZPMC produced petroleum pipe crane (1000t). All Four-claw hooks are provided by THLE.



滑车系列 Pulley

2015年，上海振华ZPMC制造的12000t世界最大起重船
所有吊装试验索具由新华起重工具提供
In 2015, ZPMC produced the largest floating crane(12,000t).
All testing lifting riggings are provided by THLE.



2020年，4600T海上风电施工船“冠盛一航”号采用两套2300t吊钩组由新华起重工具提供
In 2020, "Guan Sheng Yi Hang" floating crane (4600t) 2 sets of hook blocks are provided by THLE.



2021年，中国铁建大桥局2200吨起重船采用四套600t吊钩组由新华起重工具提供
In 2021, CRCC floating crane (2200t) 4 sets of hook blocks are provided by THLE.





单轮吊钩（开式、闭式）滑车 Single-Pulley Open/Closed Hook Type

产品型号 Item No.	滑车型号 Pulley Type	额定载荷 (t) SWL	适用钢绳直径(mm) Rope Diameter	滑轮直径(mm) Pulley Diameter
TH5101	THGK1-0.5t	0.5	6.2-7.7	71
TH5102	THGK1-1t	1.0	7.7-11	85
TH5103	THGK1-2t	2.0	11-14	112
TH5104	THGK1-3.2t	3.2	12.5-15.5	132
TH5105	THGK1-5.5t	5.5	15-18.5	160
TH5106	THGK1-8.0t	8.0	19.5-23	210
TH5107	THGK1-10t	10	23-24.5	240
TH5108	THGK1-16t	16	28-31	310
TH5109	THGK1-20t	20	31-35	355



单轮吊环（开式、闭式）滑车 Single-Pulley Open/Closed Ring Type

产品型号 Item No.	滑车型号 Pulley Type	额定载荷 (t) SWL	适用钢绳直径(mm) Rope Diameter	滑轮直径(mm) Pulley Diameter
TH5121	THLK1-0.5t	0.5	6.2-7.7	71
TH5122	THLK1-1t	1.0	7.7-11	85
TH5123	THLK1-2t	2.0	11-14	112
TH5124	THLK1-3.2t	3.2	12.5-15.5	132
TH5125	THLK1-5.5t	5.5	15-18.5	160
TH5126	THLK1-8.0t	8.0	19.5-23	210
TH5127	THLK1-10t	10	23-24.5	240
TH5128	THLK1-16t	16	28-31	310
TH5129	THLK1-20t	20	31-35	355



双轮吊钩（开式、闭式）滑车 Double-Pulley Open/Closed Hook Type

产品型号 Item No.	滑车型号 Pulley Type	额定载荷 (t) SWL	适用钢绳直径(mm) Rope Diameter	滑轮直径(mm) Pulley Diameter
TH5201	THGK2-1t	1.0	6.2-7.7	71
TH5202	THGK2-2t	2.0	7.7-11	85
TH5203	THGK2-3.2t	3.2	11-14	112
TH5204	THGK2-5t	5.0	12.5-15.5	132
TH5205	THGK2-8t	8.0	15-18.5	160
TH5206	THGK2-10t	10	17-20	180
TH5207	THGK2-16t	16	23-24.5	240
TH5208	THGK2-20t	20	26-28	280



双轮吊环（开式、闭式）滑车 Double-Pulley Open/Closed Ring Type

产品型号 Item No.	滑车型号 Pulley Type	额定载荷 (t) SWL	适用钢绳直径(mm) Rope Diameter	滑轮直径(mm) Pulley Diameter
TH5221	THD2-1t	1.0	6.2-7.7	71
TH5222	THD2-2t	2.0	7.7-11	85
TH5223	THD2-3.2t	3.2	11-14	112
TH5224	THD2-5t	5.0	12.5-15.5	132
TH5225	THD2-8t	8.0	15-18.5	160
TH5226	THD2-10t	10	17-20	180
TH5227	THD2-16t	16	23-24.5	240
TH5228	THD2-20t	20	26-28	280
TH5229	THD2-32t	32	28-31	355



三轮吊钩、吊环滑车 Three-Pulley Hook/Ring Type

产品型号 Item No.	滑车型号 Pulley Type	额定载荷 (t) SWL	适用钢绳直径(mm) Rope Diameter	滑轮直径(mm) Pulley Diameter
TH5301	THGL3-3.2t	3.2	7.7-11	85
TH5302	THGL3-5t	5.0	11-14	112
TH5303	THGL3-8t	8.0	12.5-15.5	132
TH5304	THGL3-10t	10	15-18.5	160
TH5305	THGL3-16t	16	17-20	180
TH5306	THGL3-20t	20	20-23	210
TH5307	THGL3-32t	32	26-28	280



四轮吊环滑车 Four-Pulley Ring Type

产品型号 Item No.	滑车型号 Pulley Type	额定载荷 (t) SWL	适用钢绳直径(mm) Rope Diameter	滑轮直径(mm) Pulley Diameter
TH5401	THD4-8t	8	11-14	112
TH5402	THD4-10t	10	12.5-15.5	132
TH5403	THD4-16t	16	15-18.5	160
TH5404	THD4-20t	20	17-20	180
TH5405	THD4-32t	32	23-24.5	240
TH5406	THD4-50t	50	28-31	315



五轮吊环滑车 Five-Pulley Ring Type

产品型号 Item No.	滑车型号 Pulley Type	额定载荷 (t) SWL	适用钢绳直径(mm) Rope Diameter	滑轮直径(mm) Pulley Diameter
TH5501	THD5-20t	20	15-18.5	160
TH5502	THD5-32t	32	20-23	210
TH5503	THD5-50t	50	26-28	280
TH5504	THD5-80t	80	31-35	355



六轮吊环滑车 Six-Pulley Ring Type

产品型号 Item No.	滑车型号 Pulley Type	额定载荷 (t) SWL	适用钢绳直径(mm) Rope Diameter	滑轮直径(mm) Pulley Diameter
TH5601	THD6-32t	32	17-20	180
TH5602	THD6-50t	50	23-24.5	240
TH5603	THD6-80t	80	28-31	315
TH5604	THD6-100t	100	31-35	355

八轮吊环滑车 Eight-Pulley Ring Type

产品型号 Item No.	滑车型号 Pulley Type	额定载荷 (t) SWL	适用钢绳直径(mm) Rope Diameter	滑轮直径(mm) Pulley Diameter
TH5801	THD8-80t	80	26-28	280
TH5802	THD8-100t	100	28-31	315
TH5803	THD8-160t	160	31-35	355
TH5804	THD8-200t	200	34-38	400

十轮吊环滑车 Ten-Pulley Ring Type

产品型号 Item No.	滑车型号 Pulley Type	额定载荷 (t) SWL	适用钢绳直径(mm) Rope Diameter	滑轮直径(mm) Pulley Diameter
TH5901	THD9-200t	200	31-35	355
TH5902	THD9-250t	250	35-38	400
TH5903	THD9-320t	320	40-43	450

滑轮 Pulley (Q/320211 ARE01-2002)

该产品在起重运输、港口装卸、船舶制造、抓斗、滑车、矿山机械、冶金机械、建筑安装中广泛应用，是继铸造滑轮和双幅板滑轮后的更新换代产品，优越性已为广大用户所验证。我公司可为用户生产非标产品，“质量好、交货快”是我们奉行的一贯原则。

It is widely used in lifting and transportation, port machinery, grab bucket, pulley, mining machinery, metallurgical machinery and construction. It is an update on casting pulley and double plate pulley, and it has been fully tested and accepted by our clients. We can make non-standard products in best quality, and a fast delivery is promised.

1、直径D的圆跳动公差 t_1 :

$0 \leq t_1 \leq D/1000$ D:单位mm
Diameter D Circular Runout
Tolerance $0 \leq t_1 \leq D/1000$ D:(mm)

2、槽底半径R允许偏差 t_2 :

R	t_2
≤ 15	+1.0
> 15	+1.5

3、轮缘宽度b允许偏差 t_3 :

轮缘号	t_3
1	+2
2	
3	+3
4	
5	+4
6	
7	+5
8	

4、外径 D_1 的允许偏差 t_4 :

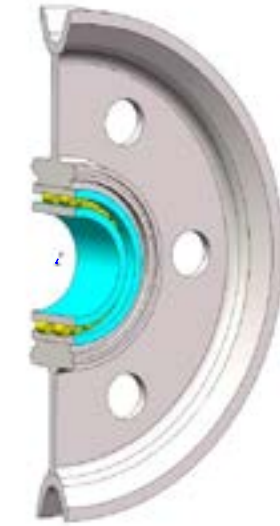
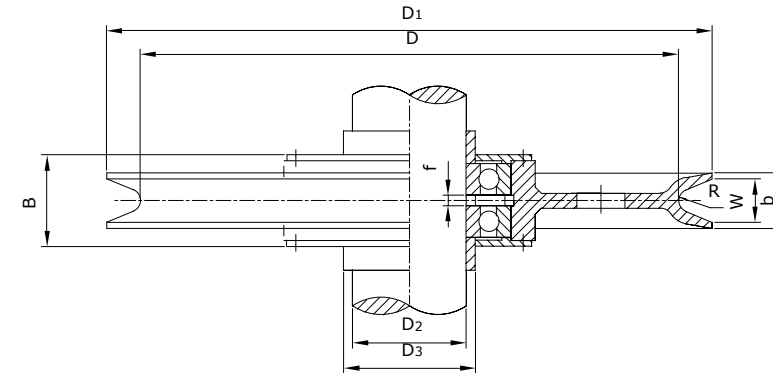
D_1	t_4
≤ 250	-0.5
$> 250-500$	-1.0
$> 500-1000$	-1.5
$> 1000-1200$	-2.0
$> 1200-1500$	-2.5
$> 1500-1800$	-3.0
$> 1800-2000$	-3.5

5、绳槽内侧向跳动公差 t_5 :

$t_5 \leq 2D/1000$ D: 单位mm
Crossrange runout Tolerance in Groove 5:
 $t_5 \leq 2D/1000$ D: (mm)

6、绳槽表面硬度为HB-140~220，或根据客户要求定制环锻双辐滑轮用合金钢制，绳槽表面硬度HRC ≥ 40

Rope groove surface hardness: HB-140~220, Ring forging double plate pulley is made of Alloy, rope groove surface hardness HRC ≥ 40



滑轮系列表 (一般密封型) Pulley Series Table (General Sealing Type) $D_0/d=20$ 表1

滑轮代号 Item No	钢丝绳直径 Diameter(mm)	主要尺寸 Dimensions(mm)							推荐轴承 型号Bearing	参考重量 Weight(Kg)		
		D	D_1	R	b	W	f	D_2				
TH1201P	10-14	280	325	7	37	28	8	55	63	64	211	12
TH1202P								60	69	66	212	12
TH1203P								65	75	68	213	13
TH1204P								70	80	70	214	13
TH2201P	>14-19	355	415	10	50	38	8	80	90	74	216	22
TH2202P								85	96	78	217	23
TH2203P								90	102	82	218	24
TH2204P								95	108	86	219	27.5
TH3201P	>19-23.5	450	521	12	60	46	10	95	108	90	219	38.5
TH3202P								100	113	94	220	39.5
TH3203P								110	124	102	222	42
TH3204P								120	135	106	224	43.5
TH4201P	>23.5-30	560	650	15	73	57	10	130	146	106	226	69
TH4202P								140	158	110	228	72.5
TH4203P								150	170	116	230	76
TH4204P								160	180	122	232	78
TH5201P	>30-37	710	822	19	92	72	12	160	188	128	42232	119
TH5202P								170	202	136	42234	123
TH5203P								180	212	136	42236	124
TH5204P								190	225	142	42238	129
TH6201P	>37-43	800	926	22	104	82	12	160	188	128	42232	152
TH6202P								170	202	136	42234	157
TH6203P								180	212	136	42236	158
TH6204P								190	228	142	42238	163
TH7201P	>43-50	900	1052	26	123	98	14	190	225	148	42238	278
TH7202P								200	235	154	42240	275
TH7203P								220	260	168	42244	305
TH7204P								240	278	182	42248	289
TH8201P	>50-58	1120	1292	29	135	110	14	190	225	148	42238	385
TH8202P								200	235	154	42240	384
TH8203P								220	260	168	42244	417
TH8204P								240	278	182	42248	397

① $D_0=D+d$ ②参考重量不包括轴承重量Weight Not including Bearing

滑轮系列表 (一般密封型) Pulley Series Table (General Sealing Type) $D_0/d=25$ 表2

滑轮代号 Item No	钢丝绳直径 Diameter(mm)	主要尺寸 Dimensions(mm)							推荐轴承 型号Bearing	参考重量 Weight(Kg)		
		D	D_1	R	b	W	f	D_2				
TH1251P	10-14	355	400	7	37	28	8	55	63	64	211	16
TH1252P								60	69	66	212	16
TH1253P								65	75	68	213	17
TH1254P								70	80	70	214	18
TH2251P	>14-19	450	510	10	50	38	8	80	90	74	216	28
TH2252P								85	96	78	217	29
TH2253P								90	102	82	218	31
TH2254P								95	108	86	219	32
TH3251P	>19-23.5	560	631	12	60	46	10	95	108	90	219	50
TH3252P								100	113	94	220	50
TH3253P								110	124	102	222	53
TH3254P								120	135	106	224	55
TH4251P	>23.5-30	710	800	15	73	57	10	130	146	106	226	91
TH4252P								140	158	110	228	95
TH4253P								150	170	116	230	97
TH4254P								160	180	122	232	101
TH5251P	>30-37	900	1012	19	92	72	12	160	188	128	42232	158
TH5252P								170	202	136	42234	163
TH5253P								180	212	136	42236	164
TH5254P								190	225	142	42238	168
TH6251P	>37-43	1000	1126	22	104	82	12	160	188	128	42232	205
TH6252P								170	202	136	42234	208
TH6253P								180	212	136	42236	209
TH6254P								190	228	142	42238	213
TH7251P	>43-50	1250	1402	26	123	98	14	190	225	148	42238	394
TH7252P								200	235	154	42240	394
TH7253P								220	260	168	42244	425
TH7254P								240	278	182	42248	406
TH8251P	>50-58	1400	1572	29	135	110	14	190	225	148	42238	504
TH8252P								200	235	154	42240	503
TH8253P								220	260	168	42244	538
TH8254P								240	278	182	42248	519

滑轮系列表 (一般密封型) Pulley Series Table (General Sealing Type) $D_0/d=28$ 表3

滑轮代号 Item No	钢丝绳直径 Diameter(mm)	主要尺寸 Dimensions(mm)							推荐轴承 型号Bearing	参考重量 Weight(Kg)		
		D	D_1	R	b	W	f	D_2				
TH1281P	10-14	400	445	7	37	28	8	55	63	64	211	18
TH1282P								60	69	66	212	18
TH1283P								65	75	68	213	19
TH1284P								70	80	70	214	20
TH2281P	>14-19	500	560	10	50	38	8	80	90	74	216	32
TH2282P								85	96	78	217	33
TH2283P								90	102	82	218	34
TH2284P								95	108	86	219	35
TH3281P	>19-23.5	630	701	12	60	46	10	95	108	90	219	56
TH3282P								100	113	94	220	57
TH3283P								110	124	102	222	61
TH3284P								120	135	106	224	63
TH4281P	>23.5-30	800	890	15	73	57	10	130	146	106	226	106
TH4282P								140	158	110	228	109
TH4283P								150	170	116	230	112
TH4284P								160	180	122	232	117
TH5281P	>30-37	1000	1112	19	92	72	12	160	188	128	42232	179
TH5282P								170	202	136	42234	186
TH5283P								180	212	136	42236	186
TH5284P								190	225	142	42238	190
TH6281P	>37-43	1120	1246	22	104	82	12	160	188	128	42232	237
TH6282P								170	202	136	42234	242
TH6283P								180	212	136	42236	243
TH6284P								190	228	142	42238	249
TH7281P	>43-50	1400	1552	26	123	98	14	190	225	148	42238	450
TH7282P								200	235	154	42240	451
TH7283P								220	260	168	42244	482
TH7284P								240	278	182	42248	468
TH8281P	>50-58	1600	1772	29	135	110	14	190	225	148	42238	598
TH8282P								200	235	154	42240	602
TH8283P								220	260	168	42244	635
TH8284P								240	278	182	42248	625

① $D_0=D+d$ ②参考重量不包括轴承重量Weight Not including Bearing

滑轮系列表 (一般密封型) Pulley Series Table (General Sealing Type) $D_0/d=32$ 表4

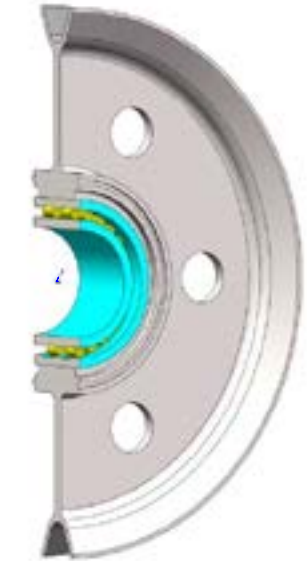
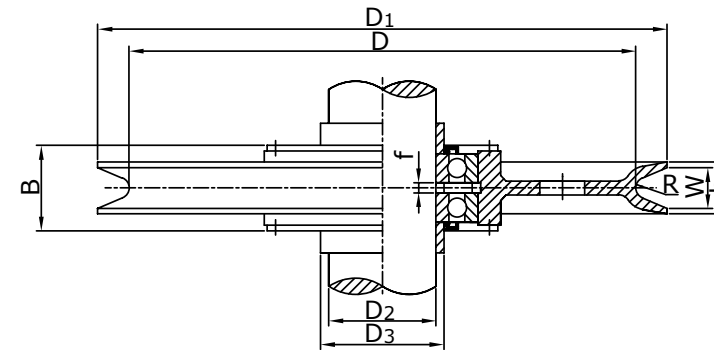
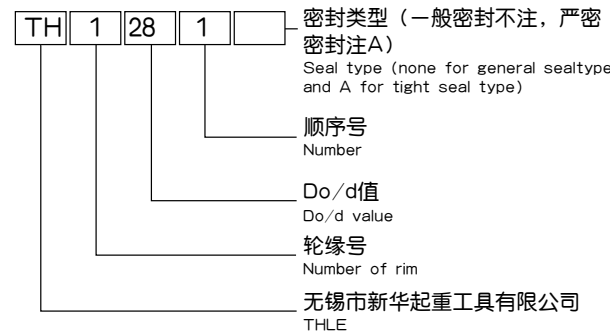
滑轮代号 Item No	钢丝绳直径 Diameter(mm)	主要尺寸 Dimensions(mm)							推荐轴承 型号Bearing	参考重量 Weight(Kg)		
		D	D_1	R	b	W	f	D_2				
TH1321P	10-14	450	495	7	37	28	8	55	63	64	211	21
TH1322P								60	69	66	212	21
TH1323P								65	75	68	213	22
TH1324P								70	80	70	214	22
TH2321P	>14-19	560	620	10	50	38	8	80	90	74	216	36
TH2322P								85	96	78	217	39
TH2323P								90	102	82	218	40
TH2324P								95	108	86	219	43
TH3321P	>19-23.5	710	781	12	60	46	10	95	108	90	219	66
TH3322P								100	113	94	220	67
TH3323P								110	124	102	222	70
TH3324P								120	135	106	224	73
TH4321P	>23.5-30	900	990	15	73	57	10	130	146	106	226	123
TH4322P								140	158	110	228	126
TH4323P								150	170	116	230	130
TH4												

滑轮 Pulley (Q/320211 ARE01-2002)

1. 用户可根据钢丝绳直径d, 滑轮名义直径D₀ (D₀=D+d) 与钢丝绳直径d之比D₀/d、轴承型号、使用环境[需一般密封或严密密封(A型)], 按滑轮系列选择即可(表1-4为一般密封型, 表5-8为严密密封型)。标注方法如下:
如, 选有1号轮缘, D₀/d值为20、轴承型号为211的一般密封型滑轮, 标注为TH1281。

Customers could choose pulley according to the diameter of the wire rope d, the ratio between the nominal diameter of the pulley D₀ (D₀=D+d) and wire rope diameter d (D₀/d), bearing model, the environment[with general seal or tight seal (A type)]. (Table 1-4 for general seal type, table 5-8 for tight seal type).
For example, the label TH1281 stand for the No.1 rim, D₀/d value of 20 and type 211 sealed pulleys.

2. 本厂可按用户要求制造特殊规格、可通过钢丝绳接头的宽配槽滑轮。
Our company could manufacture special specifications or wide groove pulley according to customer requirements.



滑轮系列表 (严密密封型) Pulley Series Table (Rigorous Sealing Type) D₀/d=20 表5

滑轮代号 Item No	钢丝绳直径 Diameter(mm)	主要尺寸 Dimensions(mm)							推荐轴承 Bearing	参考重量 Weight(Kg)
	D	D ₁	R	b	W	f	D ₂	D ₃	B	
TH1201A							55	63	86	211 12
TH1202A	10-14	280	325	7	37	28	60	69	88	212 13
TH1203A							65	75	90	213 14
TH1204A							70	80	92	214 14
TH2201A							80	90	96	216 23
TH2202A	>14-19	355	415	10	50	38	85	96	100	217 24
TH2203A							90	102	108	218 26
TH2204A							95	108	112	219 27
TH3201A							95	108	114	219 41
TH3202A	>19-23.5	450	521	12	60	46	100	113	118	220 42
TH3203A							110	124	128	222 44
TH3204A							120	135	132	224 45
TH4201A							130	146	134	226 73
TH4202A	>23.5-30	560	650	15	73	57	140	158	138	228 76
TH4203A							150	170	144	230 79
TH4204A							160	180	154	232 81
TH5201A							160	188	156	42232 122
TH5202A	>30-37	710	822	19	92	72	170	202	164	42234 128
TH5203A							180	212	164	42236 128
TH5204A							190	225	170	42238 133
TH6201A							160	188	156	42232 155
TH6202A	>37-43	800	926	22	104	82	170	202	164	42234 162
TH6203A							180	212	164	42236 162
TH6204A							190	228	170	42238 167
TH7201A							190	225	172	42238 281
TH7202A	>43-50	900	1052	26	123	98	200	235	178	42240 279
TH7203A							220	260	196	42244 310
TH7204A							240	278	210	42248 286
TH8201A							190	225	172	42238 387
TH8202A	>50-58	1120	1292	29	135	110	200	235	178	42240 388
TH8203A							220	260	196	42244 422
TH8204A							240	278	210	42248 399

①D₀=D+d ②参考重量不包括轴承重量Weight Not including Bearing

滑轮系列表 (严密密封型) Pulley Series Table (Rigorous Sealing Type) D₀/d=25 表6

滑轮代号 Item No	钢丝绳直径 Diameter(mm)	主要尺寸 Dimensions(mm)							推荐轴承 Bearing	参考重量 Weight(Kg)
	D	D ₁	R	b	W	f	D ₂	D ₃	B	
TH1251A							55	63	86	211 16
TH1252A	10-14	355	400	7	37	28	60	69	88	212 16
TH1253A							65	75	90	213 18
TH1254A							70	80	92	214 18
TH2251A							80	90	96	216 29
TH2252A	>14-19	450	510	10	50	38	85	96	100	217 30
TH2253A							90	102	108	218 32
TH2254A							95	108	112	219 33
TH3251A							95	108	114	219 51
TH3252A	>19-23.5	56	631	12	60	46	100	113	118	220 52
TH3253A							110	124	128	222 55
TH3254A							120	135	132	224 57
TH4251A							130	146	134	226 95
TH4252A	>23.5-30	710	800	15	73	57	140	158	138	228 97
TH4253A							150	170	144	230 101
TH4254A							160	180	154	232 105
TH5251A							160	188	156	42232 162
TH5252A	>30-37	900	1012	19	92	72	170	202	164	42234 167
TH5253A							180	212	164	42236 167
TH5254A							190	225	170	42238 173
TH6251A							160	188	156	42232 205
TH6252A	>37-43	1000	1126	22	104	82	170	202	164	42234 212
TH6253A							180	212	164	42236 212
TH6254A							190	228	170	42238 218
TH7251A							190	225	172	42238 396
TH7252A	>43-50	1250	1402	26	123	98	200	235	178	42240 398
TH7253A							220	260	196	42244 430
TH7254A							240	278	210	42248 408
TH8251A							190	225	172	42238 507
TH8252A	>50-58	1400	1572	29	135	110	200	235	178	42240 507
TH8253A							220	260	196	42244 543
TH8254A							240	278	210	42248 522

滑轮系列表 (严密密封型) Pulley Series Table (Rigorous Sealing Type) D₀/d=28 表7

滑轮代号 Item No	钢丝绳直径 Diameter(mm)	主要尺寸 Dimensions(mm)							推荐轴承 Bearing	参考重量 Weight(Kg)
	D	D ₁	R	b	W	f	D ₂	D ₃	B	
TH1281A							55	63	86	211 18
TH1282A	10-14	400	445	7	37	28	60	69	88	212 18
TH1283A							65	75	90	213 20
TH1284A							70	80	92	214 20
TH2281A							80	90	96	216 33
TH2282A	>14-19	500	560	10	50	38	85	96	100	217 34
TH2283A							90	102	108	218 35
TH2284A							95	108	112	219 37
TH3281A							95	108	114	219 58
TH3282A	>19-23.5	630	701	12	60	46	100	113	118	220 59
TH3283A							110	124	128	222 63
TH3284A							120	135	132	224 64
TH4281A							130	146	134	226 109
TH4282A	>23.5-30	800	890	15	73	57	140	158	138	228 111
TH4283A							150	170	144	230 116
TH4284A							160	180	154	232 120
TH5281A							160	188	156	42232 183
TH5282A	>30-37	1000	1112	19	92	72	170	202	164	42234 190
TH5283A							180	212	164	42236 189
TH5284A							190	225	170	42238 195
TH6281A							160	188	156	42232 241
TH6282A	>37-43	1120	1246	22	104	82	170	202	164	42234 246
TH6283A							180	212	164	42236 246
TH6284A							190	228	170	42238 253
TH7281A							190	225	172	42238 452
TH7282A	>43-50	1400	1552	26	123	98	200	235	178	42240 455
TH7283A							220	260	196	42244 488
TH7284A							240	278	210	42248 470
TH8281A							190	225	172	42238 601
TH8282A	>50-58	1600	1772	29	135	110	200	235	178	42240 606
TH8283A							220	260	196	42244 640
TH8284A							240	278	210	42248 625

①D₀=D+d ②参考重量不包括轴承重量Weight Not including Bearing

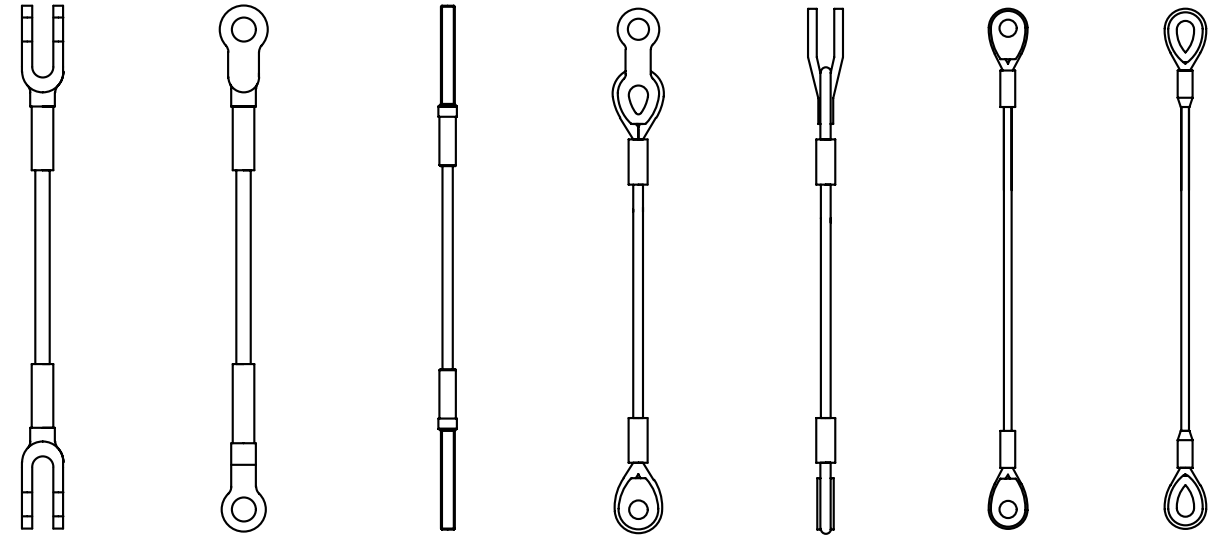
滑轮系列表 (严密密封型) Pulley Series Table (Rigorous Sealing Type) D₀/d=32 表8

滑轮代号 Item No	钢丝绳直径 Diameter(mm)	主要尺寸 Dimensions(mm)							推荐轴承 Bearing	参考重量 Weight(Kg)
	D	D ₁	R	b	W	f	D ₂	D ₃	B	
TH1321A							55	63	86	211 21
TH1322A	10-14	450	495	7	37	28	60	69	88	212 22
TH1323A							65	75	90	213 23
TH1324A							70	80	92	214 23
TH2321A							80	90	96	216 37
TH2322A	>14-19	560	620	10	50	38	85	96	100	217 40
TH2323A							90	102	108	218 41
TH2324A							95	108	112	219 44
TH3321A							95	108	114	219 67
TH3322A	>19-23.5	710	781	12	60	46	100	113	118	220 69
TH3323A							110	124	128	222 73
TH3324A							120	135	132	224 74
TH4321A							130	146	134	226 125
TH4322A	>23.5-30	900	990	15	73	57	140	158	138	228 129
TH4323A							150	170	144	230 133
TH4324A							160	180	154	232 138
TH5321A							160	188	156	42232 212
TH5322A	>30-37	1120	1232	19	92	72	170	202	164	42234 219
TH5323A							180	212	164	42236 219
TH5324A							190	225	170	42238 223
TH6321A							160	188	156	42232 281
TH6322A	>37-43	1250	1376	22	104	82	170	202	164	42234 287
TH6323A							180	212	164	42236 286
TH6324A							190	228	170	42238 289
TH7321A							190	225	172	42238 534
TH7322A	>43-50	1600	1752	26	123	98	200	235	178	42240 539
TH7323A							220	260	196	42244 573
TH7324A							240	278	210	42248 557
TH8321A							190	225	172	42238 702
TH8322A	>50-58	1800	1972	29	135	110	200	235	178	422

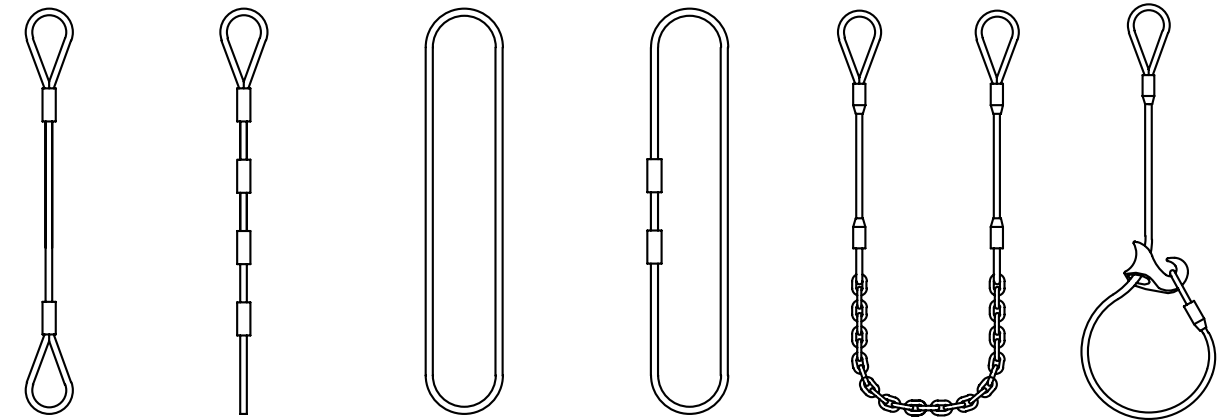
钢丝绳索具 Wire Rope Sling



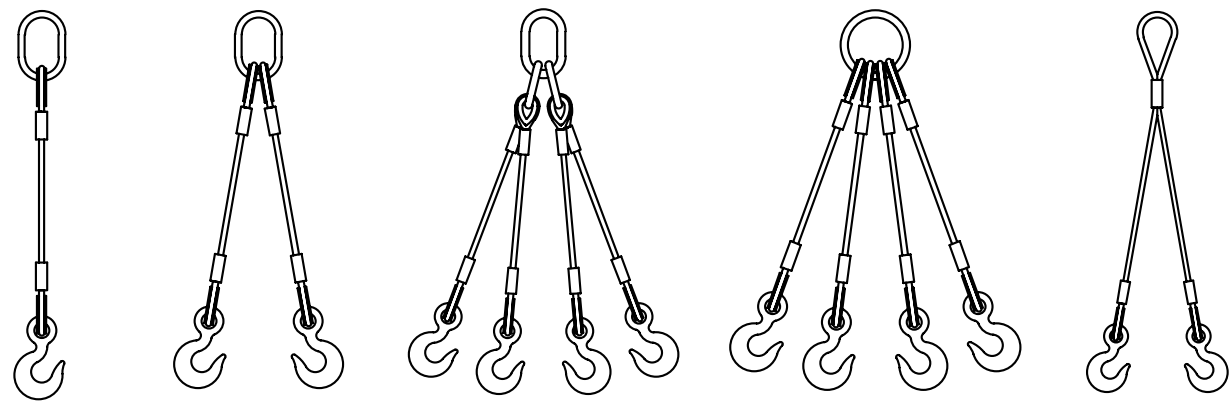
钢丝绳索具选用图 Wire Rope Sling Configuration



开式钢索索具 Open Wire Rope Sling 闭式钢索索具 Closed Wire Rope Sling 螺杆钢索索具 Screw Wire Rope Sling 臂架拉索索具 Boom Rope Thimble 重型套环索具 Solid Wire Rope Thimble 索具套环索具 Wire Rope Thimble



自由环索具 Soft Eye Machine Swaged 定位索节 Sling for Ship Use 无接头环式索具 Endless Ring Thimble 双接头索具 Double Connection Thimble 钢索链条索具 Wired Chain Thimble 弯孔钩滑动索具 Slide Choker Hook Thimble



单钩环索具 Master Link with Single Hook 双钩环索具 Master Link with Double Hook 子母环四钩索具 Master Link with Four Hook 圆环四钩索具 Ring with Four Hook 双钩人字形索具 Double Hook

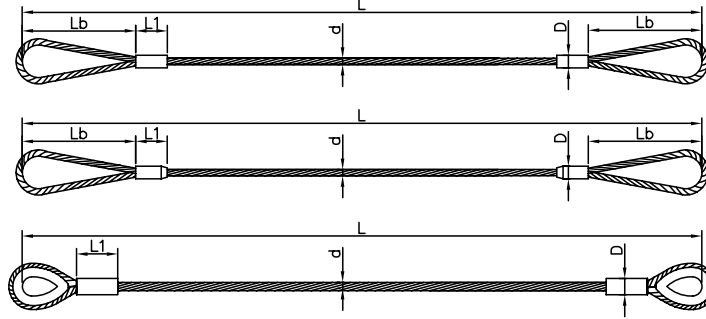
钢丝绳铝合金压制索具 Wire Rope Sling with Aluminum Sleeve Compression GB6946-2008

钢丝绳索具制作采用铝合金压制技术，可较大的减轻工人的劳动强度，提高生产效率，并可节省钢丝绳耗料10%以上。

采用该项技术可使钢丝绳索具的强度由手编和绳夹的70%提高到90%以上钢丝绳破断总和。

Wire rope sling use the technique of Aluminum sleeve compression to deduce work intensity, increase manufacture efficiency and save 10% material of wire rope.

Such technique could increase the intensity of wire rope sling from 70% to 90% or so in aggregate breaking force.



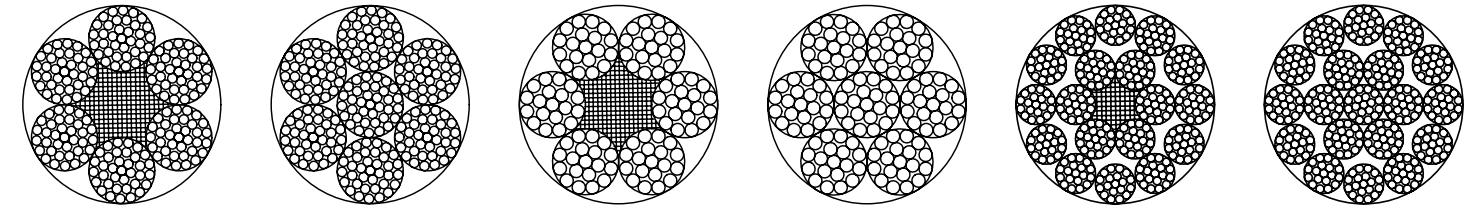
钢丝绳铝合金压制接头加工技术参数一览表 (单位: mm)

Aluminum Sleeve Compression Connector of Wire Rope Sling Technical Specification (mm)

接头号 Connector No.	钢丝绳直径d Diameter	钢丝绳总断面积 Total Basal Area of Wire Rope (mm ²)		自由环档长度 Free Ring Length Lb		压制接头直径D Sleeve Compression Diameter
		min	max	min	max	
6	6.2	14.2	15.1	100	150	13
8	7.7	21.9	23.3	100	150	16
10	9.3	31.9	24.0	120	200	20
11	11.0	44.8	47.2	120	200	22
13	12.0	57.2	61.4	150	250	25
14	13.0	72.4	77.0	150	250	28
16	15.0	88.7	94.4	200	300	30
18	17.5	113.1	120.3	200	350	36
20	19.5	147.7	157.1	250	400	40
22	21.5	170.6	181.2	250	400	44
24	24.0	212.6	226.2	350	500	48
26	26.0	249.5	265.5	400	600	52
28	28.0	289.4	307.9	500	600	56
30	30.0	341.6	370.0	500	700	60
32	32.5	389.9	414.8	600	800	65
34	34.5	446.1	470.0	600	900	68
36	36.5	491.8	523.2	600	900	72
40	39.0	590.6	628.3	700	1000	80
44	43.0	682.5	726.1	700	1000	88
48	47.5	832.9	886.0	800	1200	96
52	52.0	998.2	1061.9	800	1200	104
56	56.0	1157.6	1231.5	1000	1500	112
60	60.5	1351.1	1437.4	1000	1500	120

- 说明: 1. 铝合金压制接头索具使用强度1700N/mm²以下钢丝绳。
2. 索具长度L、钢丝绳规格d、钢丝绳结构由用户确定、自由环档长度Lb仅供参考, 我方可根据用户要求制作。
3. 加入索具套环、重型套环可延长钢丝绳索具的使用寿命, 使得配置更加合理。
4. 安全系数根据工况确定, 一般为4~6, 使用环境温度-40℃~150℃。
5. 当接头严重挤伤、裂纹、变形、腐蚀、直径缩小到d的95%时应停止使用。

- Explanation: 1. Wire Rope Sling with Aluminum Sleeve Compression use Wire Rope with Intensity under 1700N/mm².
2. Sling Length, Wire Rope Diameter and Wire Rope Structure depend on users, Free Ring Length is for reference only.
3. Equipped with Thimble and Solid Thimble could Extend Service Life.
4. Safety Factor depends on Working Condition, which generally be 4-6 under Temperature between -40-150°C.
5. Stop using it when the Connector Crushed, Cracked, Distorted, Corroded or Diameter Decreases to 95%.



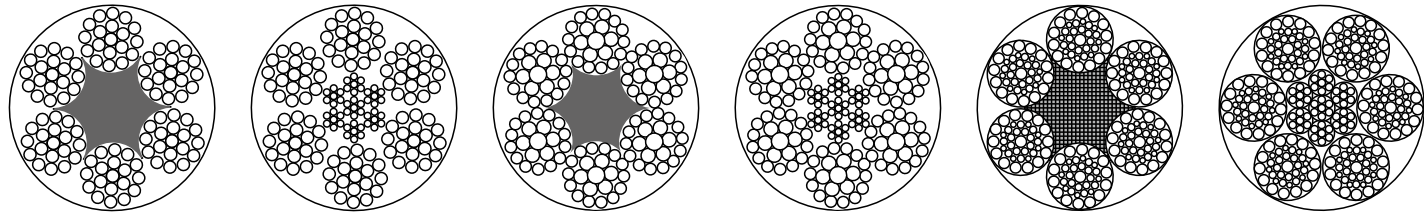
钢丝绳结构: 6×37+FC 股结构: (1+6+12+18) 钢丝绳结构: 6×37+IWRC 股结构: (1+6+12+18) 钢丝绳结构: 6×19+FC 股结构: (1+6+12) 钢丝绳结构: 6×19+IWRC 股结构: (1+6+12) 钢丝绳结构: 18×19+FC 股结构: (1+6+12) 钢丝绳结构: 18×19+IWS 股结构: (1+6+12)

常用钢丝绳选用表— Common Wire Rope Table 1

公称直径 Diameter	点接触钢丝绳						多层股钢丝绳					
	6×37+FC、6×37+IWRC		6×19+FC、6×19+IWRC		18×19+FC、18×19+IWS		6×19+FC、6×19+IWRC		18×19+FC、18×19+IWS		18×19+FC、18×19+IWS	
	公称抗拉强度 1770MPa		参考重量 KG/100m		公称抗拉强度 1770MPa		参考重量 KG/100m		公称抗拉强度 1770MPa		参考重量 KG/100m	
	最小破断拉力KN		纤维芯 钢芯		最小破断拉力KN		纤维芯 钢芯		最小破断拉力KN		纤维芯 钢芯	
10	52.2	34.6	40.0	54.4	58.8	35.4	40.0	54.9	58.1	39.0	43.0	
11	63.2	68.3	41.9	48.4	65.8	71.1	42.5	48.4	66.4	70.2	47.2	52.0
12	75.2	81.3	49.8	57.6	78.2	84.6	50.5	57.6	79.0	83.6	56.2	61.9
13	88.2	95.4	58.5	67.6	91.8	99.3	59.3	67.6	92.7	98.1	65.9	72.7
14	102	111	67.8	78.4	107	115	68.8	78.4	108	114	76.4	84.3
16	134	145	88.5	102	139	150	89.9	102	140	149	99.8	110
18	169	183	112	130	176	190	114	130	178	188	126	139
20	209	226	138	160	217	235	140	160	219	232	156	172
22	253	273	167	194	263	284	170	194	266	281	198	208
24	301	325	199	230	313	338	202	230	316	334	225	248
26	353	382	234	270	367	397	237	270	371	392	264	291
28	409	443	271	314	426	461	275	314	430	455	306	337
30	470	508	311	360	489	529	316	360	494	523	351	387
32	535	578	354	410	556	602	359	410	562	594	399	440
34	604	653	400	462					634	671	451	497
36	677	732	448	518					711	752	505	557
38	754	815	500	578					792	838	563	621
40	835	903	554	640					878	929	624	688
42	921	996	610	706					968	1020	688	759
44	1010	1090	670	774					1060	1120	755	832
46	1100	1190	732	846					1160	1230	825	910
48	1200	1300	797	922					1260	1340	899	991
50	1300	1410	865	1000					1370	1450	975	1080
52	1410	1530	936	1080					1480	1570	1050	1160
54	1520	1650	1010	1170					1600	1690	1140	1250
56	1640	1770	1090	1250					1720	1820	1220	1350
58	1760	1900	1160	1350					1850	1950	1310	1450
60	1880	2030	1250	1440					1980	2090	1400	1550

- 说明: 1. 6×37: 最小钢丝破断拉力总和=钢丝绳最小破断拉力×1.249 (纤维芯) 或 1.336 (钢芯)。
2. 6×19: 最小钢丝破断拉力总和=钢丝绳最小破断拉力×1.226 (纤维芯) 或 1.321 (钢芯)。
3. 18×19: 最小钢丝破断拉力总和=钢丝绳最小破断拉力×1.283。

- Explanation: 1. 6×37: Aggregate breaking force of wire rope equals minimum broken load multiplies 1.249 fiber core(FC) or 1.336 metal core(IWR).
2. 6×19: Aggregate breaking force of wire rope equals minimum broken load multiplies 1.226 fiber core(FC) or 1.321 metal core(IWR).
3. 18×19: Aggregate breaking force of wire rope equals minimum broken load multiplies 1.283.

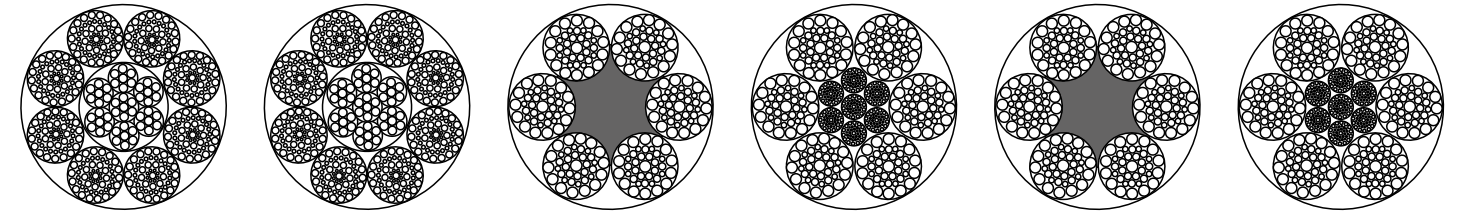


钢丝绳结构: 6×25Fi+FC 股结构: (1+6+6F+12) 钢丝绳结构: 6×25Fi+IWRC 股结构: (1+6+6F+12) 钢丝绳结构: 6×29Fi+FC 股结构: (1+7+7F+14) 钢丝绳结构: 6×29Fi+IWRC 股结构: (1+7+7F+14) 钢丝绳结构: 6×36WS+FC 股结构: (1+7+7/7+14) 钢丝绳结构: 6×36WS+IWRC 股结构: (1+7+7/7+14)

● 常用钢丝绳选用表二 Common Wire Rope Table 2

线接触钢丝绳 6×25Fi+FC、6×25Fi+IWRC、6×29Fi+FC、6×29Fi+IWRC、6×36WS+FC、6×36WS+IWRC										
公称直径 Diameter	钢丝绳公称抗拉强度 MPa								参考重量 KG/100m	
	1670		1770		1870		1960			
	最小破断拉力 KN									
	纤维芯	钢芯	纤维芯	钢芯	纤维芯	钢芯	纤维芯	钢芯	纤维芯	钢芯
10	55.1	59.5	58.4	63.0	61.7	66.6	64.7	69.8	38.0	41.8
12	79.4	85.6	84.1	90.7	88.9	95.9	93.1	100	54.7	60.2
13	93.1	100.5	98.7	106	104	112	109	118	64.2	70.6
14	108	117	114	124	121	130	127	137	74.5	81.9
16	141	152	150	161	158	170	166	179	97.3	107
18	179	193	189	204	200	216	210	226	123	135
20	220	238	234	252	247	266	259	279	152	167
22	267	288	283	305	299	322	313	338	184	202
24	317	342	336	363	355	383	373	402	219	241
26	373	402	395	426	417	450	437	472	257	283
28	432	466	458	494	484	522	507	547	298	328
30	496	535	526	567	555	599	582	628	342	376
32	564	609	598	645	632	682	662	715	389	428
34	637	687	675	728	713	770	748	807	439	483
36	714	770	757	817	800	863	838	904	492	542
38	796	858	843	910	891	961	934	1010	549	604
40	882	951	935	1010	987	1070	1030	1120	608	669
42	972	1050	1030	1110	1090	1170	1140	1230	670	737
44	1070	1150	1130	1220	1190	1290	1250	1350	736	809
46	1170	1260	1240	1330	1310	1410	1370	1480	804	884
48	1270	1370	1350	1450	1420	1530	1490	1610	876	963
50	1380	1490	1460	1580	1540	1660	1620	1740	950	1040
52	1490	1610	1580	1700	1670	1800	1750	1890	1030	1130
54	1610	1730	1700	1840	1800	1940	1890	2030	1110	1220
56	1730	1860	1830	1980	1940	2090	2030	2190	1190	1310
58	1850	2000	1960	2120	2080	2240	2180	2350	1280	1410
60	1980	2140	2100	2270	2220	2400	2330	2510	1370	1500

说明: 最小钢丝破断拉力总和=钢丝绳最小破断拉力×1.226(纤维芯)或1.321(钢芯)。
Explanation: Aggregate breaking force of wire rope equals minimum broken load multiplies 1.226 fiber core(FC) or 1.321 metal core(IWR).



钢丝绳结构: 8×61FWS+FC 股结构: (1+6+6F+12) 钢丝绳结构: 8×61FWS+IWRC 股结构: (1+6+6F+12) 钢丝绳结构: 8×29Fi+FC 股结构: (1+7+7F+14) 钢丝绳结构: 8×29Fi+IWRC 股结构: (1+7+7F+14) 钢丝绳结构: 8×36WS+FC 股结构: (1+7+7/7+14) 钢丝绳结构: 8×36WS+IWRC 股结构: (1+7+7/7+14)

● 常用钢丝绳选用表三 Common Wire Rope Table 3 粗直径钢丝绳

8×61FWS+FC、8×61FWS+IWRC					8×80WSNS+FC、8×80WSNS+IWRC、8×111SWSNS+FC、8×111SWSNS+IWRC				
公称直径 Diameter	钢丝绳公称抗拉强度1770MPa		参考重量 KG/100m		公称直径 Diameter	钢丝绳公称抗拉强度1770MPa		参考重量 KG/100m	
	最小破断拉力 KN								
	纤维芯	钢芯	纤维芯	钢芯		纤维芯	钢芯	纤维芯	钢芯
62	1990	2350	1460	1750	90	3870	4820	3000	3590
64	2120	2510	1560	1860	92	4040	5030	3130	3750
66	2260	2970	1660	1980	94	4220	5250	3270	3910
68	2400	2830	1760	2100	96	4400	5480	3410	4080
70	2540	3000	1860	2230	98	4590	5710	3550	4250
72	2690	3170	1970	2360	100	4780	5950	3700	4430
74	2840	3350	2080	2490	102	4970	6190	3850	4610
76	3000	3540	2190	2630	104	5170	6430	4000	4790
78	3160	3730	2310	2770	106	5370	6680	4160	4980
80	3320	3920	2430	2910	108	5570	6940	4320	5170
82	3490	4120	2560	3060	110	5780	7200	4480	5360
84	3660	4320	2680	3210	112	5990	7460	4640	5560
86	3840	4530	2810	3370	114	6210	7730	4810	5760
88	4020	4740	2940	3520	120	6880	8560	5330	6380
90	4200	4960	3080	3690	125	7470	9290	5780	6920
92	4390	5180	3220	3850	130	8080	10100	6250	7490
94	4580	5410	3360	4020	135	8710	10800	6740	8070
96	4780	5640	3500	4190	140	9370	11700	7250	8680
98	4980	5880	3650	4370	145	10000	12500	7780	9310
100	5190	6120	3800	4550	150	10800	13400	8330	9970
102	5400	6370	3950	4730	155	11500	14300	8890	10600
104	5610	6620	4110	4920	160	12200	15200	9470	11300
106	5830	6880	4270	5110	165	13000	16200	10100	12100
108	6050	7140	4430	5310	170	13800	17200	10700	12800
110	6280	7410	4600	5510	175	14600	18200	11300	13600
112	6510	7680	4770	5710	180	15500	19300	12000	14400
114	6740	7960	4940	5910	185	16400	20400	12700	15200
116	6980	8240	5110	6120	190	17300	21500	13400	16000
118	7220	8530	5290	6340	195	18200	22600	14100	16800
120	7470	8820	5470	6550	200	19100	23800	14800	17700

说明: 1. 8×61FWS: 最小钢丝破断拉力总和=钢丝绳最小破断拉力×1.234(纤维芯)或1.374(钢芯)。
2. 8×80WSNS、8×111SWSNS: 最小钢丝破断拉力总和=钢丝绳最小破断拉力×1.280(纤维芯)或1.398(钢芯)。
Explanation: 1. 8×61FWS: Aggregate breaking force of wire rope equals minimum broken load multiplies 1.234 fiber core(FC) or 1.374 metal core(IWR).
2. 8×80WSNS、8×111SWSNS: Aggregate breaking force of wire rope equals minimum broken load multiplies 1.280 fiber core(FC) or 1.398 metal core(IWR).



钢丝绳索具是根据吊装需求，以钢丝绳为主体，对其深加工并与不同的连接件组合，使其成为吊装专用索具。它有承载高、耐磨性好、抗拉强度大、使用寿命长、长度精确等特点，而且它对环境的要求不会太高。钢丝绳索具形式有无接头编制、浇铸、压制和插编等工艺方式。

Wire rope sling is a kind of special rigging, its main component is wire rope, which is under deep processing and integrated with various connecting parts according to the requirements of lifting. It features in high load, good wear resistance, high tensile strength, long service life and accurate length etc. In addition, it has few requires on environment. The processing methods for wire rope sling include: knnit without joint, pouring, pressing and splice etc.






无接头绳圈 Wire Rope Sling without Joint

无接头绳圈的显著特点是绳体柔软、吊点多，可解决吊装空间小、载荷高的作业要求，能够适用于变压器、造船和特殊机械等多种环境下的大件吊装的特殊要求。（无接头绳圈警示标识部位严禁做吊点）

Wire rope sling without joint is featured in softness, more suspension points. It can cater to operational requirements of small space and high load. It is adaptable for special requirements of bulk hoisting under various conditions such as transformer, shipbuilding and special machinery. (Where the warning mark locates cannot be used as lifting point.)



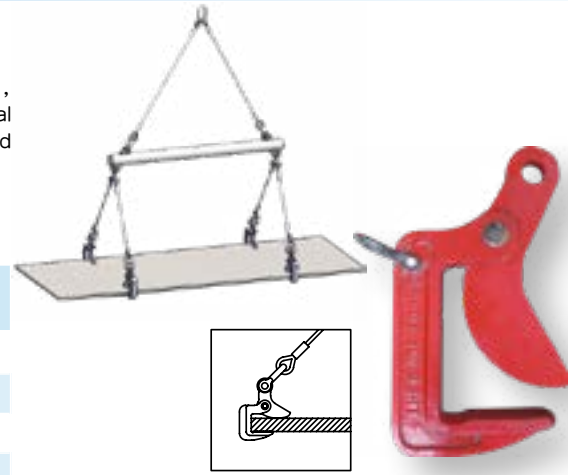
产品编码 Item No.	直径 Diameter (mm)	重量 Weight (kg/m)	破断载荷 Breaking Load (kg)	单肢额定载荷 Rated single-limb load (kg)		双肢额定载荷 Rated double-limb load (kg)		四肢额定载荷 Rated four-limb load (kg)	
							$\alpha = 0^\circ$	$\alpha \leq 45^\circ$	$45^\circ \leq \alpha \leq 90^\circ$
TH010	10	0.27	6000	1000	1800	1400	3700	2800	
TH012	12	0.43	10000	1600	3000	2000	5800	4000	
TH016	16	0.72	18000	3000	5600	4000	11200	8000	
TH019	19	1.04	24000	4000	7400	5600	14800	11200	
TH023	23	1.66	38000	6300	11700	8800	23400	17600	
TH029	29	2.79	48000	8000	14800	11300	29600	22600	
TH034	34	3.20	60000	10000	18500	14100	37000	28200	
TH040	40	4.75	90000	15000	27800	21200	55600	42400	
TH046	46	6.71	120000	20000	37000	28200	74000	56400	
TH054	54	8.74	150000	25000	46300	35300	92600	70600	
TH060	60	10.86	200000	32000	59200	45100	118400	90200	
TH067	67	12.83	240000	40000	74000	56400	148000	112800	
TH075	75	17.26	300000	50000	92500	70500	185000	141000	
TH080	80	18.44	360000	60000	111000	85000	222000	170000	
TH087	87	23.06	420000	70000	130000	99000	260000	198000	
TH095	95	26.91	480000	80000	148000	113000	296000	226000	
TH110	110	30.17	588000	98000	181000	138000	362000	276000	
TH110	110	34.89	690000	115000	213000	162000	426000	324000	
TH118	118	42.44	780000	130000	241000	183000	482000	366000	
TH135	135	54.92	1020000	170000	310000	240000	610000	470000	
TH148	148	65.72	1200000	200000	370000	280000	720000	560000	
TH160	160	76.69	1440000	240000	440000	340000	860000	670000	
TH172	172	88.22	1680000	280000	520000	400000	1000000	780000	
TH184	184	101.54	1800000	300000	550000	420000	1080000	840000	
TH196	196	114.89	2040000	340000	630000	480000	1220000	950000	
TH208	208	129.00	2280000	380000	700000	537000	1360000	1060000	
TH220	220	144.70	2520000	420000	770000	594000	1500000	1170000	
TH234	234	161.43	2820000	470000	870000	660000	1690000	1310000	
TH346	246	184.60	3120000	520000	960000	735000	1870000	1450000	
TH258	258	193.60	3420000	570000	1050000	800000	2050000	1600000	
TH276	276	231.80	3960000	660000	1220000	930000	2370000	1840000	
TH295	295	261.40	4500000	750000	1380000	1060000	2700000	2100000	
TH306	306	284.60	4920000	820000	1520000	1160000	2950000	2290000	
TH324	324	315.40	5520000	920000	1700000	1300000	3310000	2570000	
TH336	336	342.00	5940000	990000	1800000	1400000	3650000	2770000	
TH356	356	397.20	6600000	1100000	2030000	1550000	3960000	3080000	
TH368	368	427.40	7200000	1200000	2220000	1700000	4320000	3360000	

平吊钢板钳 Horizontal Lifting clamp

采用优质合金钢模锻制造，强度高、体积小、齿面淬火，耐磨防滑；用于水平起吊，在平衡吊梁下对称使用；每付4只，超长板需用6只；安全系数4。

Made of die-forged special alloy steel, High-strength, small size, hardened steel jaws, wear and not slip for lifting plates in horizontal position, in pairs with balance beam 4 horizontal lifting clamps a group and long plate with 6 clamps. Safety factors: 4.

产品代号 Item No.	规格 SWL(t)	适用钢板厚度 Thickness(mm)	使用总负荷4只/付 Total SWL(t)	单件重量 Weight Each
TH6103	5t	0-90	15t	11.8
TH6104	6t	30-130	18t	14
TH6105	8t	40-180	24t	20.2
TH6106	10t	40-220	30t	26.7

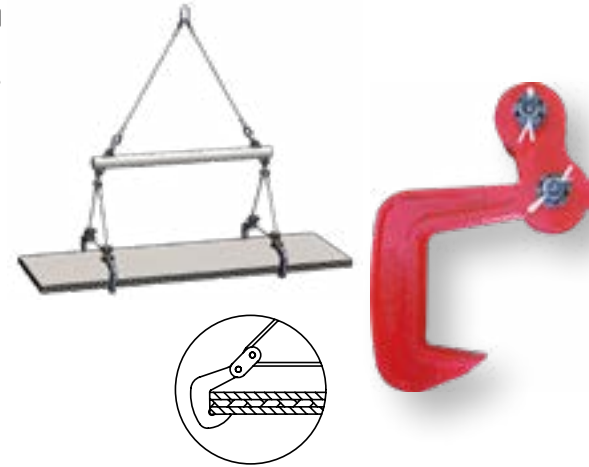


大板钩 Large Plate Lifting Clamp

在平衡吊梁下钢丝绳通过滑轮形成三角形吊法，使得大板钩与钢板紧密相扣；保持钢板吊运水平移动，谨防倾斜；安全系数3。

Triangle lifting way with wire rope and balance lifting beam to ensure the close connection between large plate lifting clamp and steel plate. Keep steel plate lifting in horizontal position and not tilt. Safety factors: 3.

产品代号 Item No.	规格 SWL(t)	适用钢板厚度 Thickness(mm)	使用总负荷4只/付 Total SWL(t)	单件重量 Weight Each
TH6301	3t	0-90	9t	8.5
TH6302	4t	0-130	12t	11.7
TH6303	5t	0-150	15t	13.2
TH6304	6t	0-180	18t	16.5
TH6305	8t	0-240	24t	19.6
TH6306	10t	0-240	30t	19.6

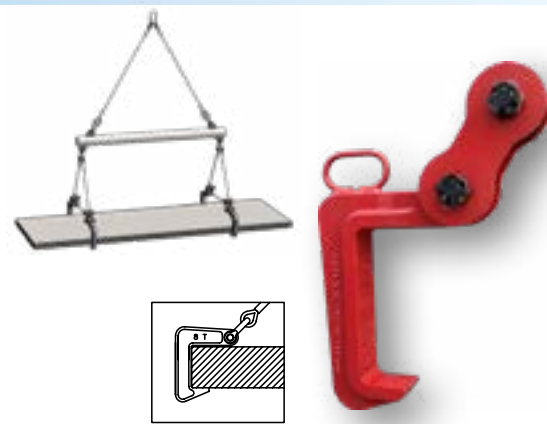


钢坯钩 Billet Lifting Clamp

强度高、体积小、钩尖淬火，耐用；在平衡吊梁下对称使用；每付4只，安全系数3。

High-strength, small size, hardened steel jaws, wear and not slip. 4 horizontal lifting clamps a group in pairs with balance beam. Safety factors: 3.

产品代号 Item No.	规格 SWL(t)	适用钢板厚度 Thickness(mm)	使用总负荷4只/付 Total SWL(t)	单件重量 Weight Each
TH6323	8t	0-180	24t	19.6
TH6324	10t	0-260	30t	22.5

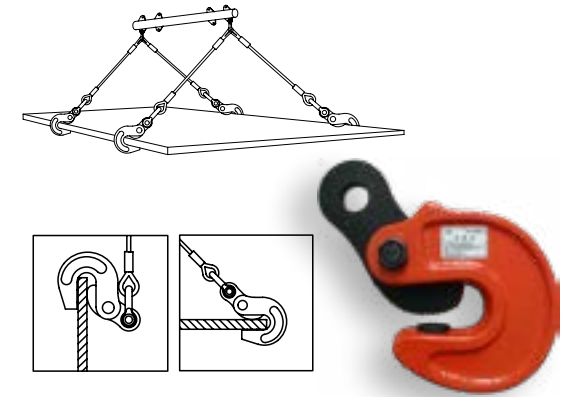


横锻翻转起重钳 Turn Clamp

采用优质合金钢模锻制造，具有高强度和耐久性。适用于钢板的水平吊运及钢板和型钢的翻转。额定载荷指单只翻转钳允许起吊的最大重量，吊装作业中可单只使用，水平吊运时必须加横梁。

Made of die-forged special alloy steel, which are optimally tempered for maximum strength and durability. Suitable for lifting and turn steel plates. The working load limit is the maximum load that the clamp are authorized to support. Single clamp can be used in lifting operations, while beam must be used for horizontal operation.

产品代号 Item No.	规格(t) SWL	适用钢板厚度(mm) Thickness	单件重量(Kg) Weight Each
TH6201	1.0	0-20	2.12
TH6202	2.0	0-30	3.4
TH6203	3.0	20-60	8.5
TH6205	5.0	50-100	16.2
TH6210	10	60-125	20.2

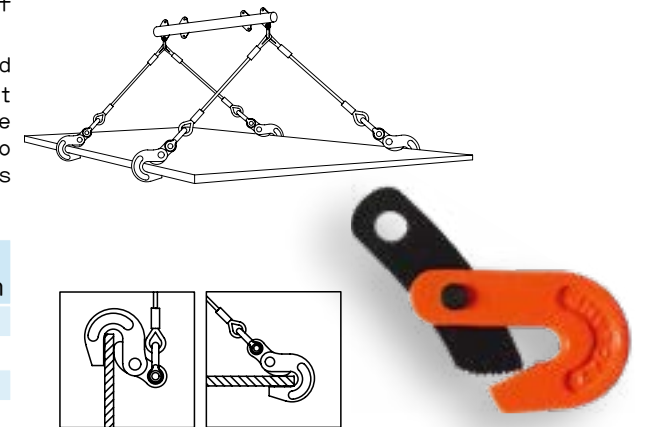


横吊钢板起重钳 Horizontal Plate Clamp

采用优质合金钢模锻制造，具有高强度和耐久性。适用于钢板、建筑和型材的水平吊运，吊运过程中不得碰撞吊运物。额定载荷指吊钩成对使用、吊点夹角且为60度时允许起吊的最大重量，吊装作业中两只或四只配套成组使用。

Made of die-forged special alloy steel, which are optimally tempered for maximum strength and durability. Suitable for lifting and transport of steel plates, construction and profiled bar in horizontal position. The working load limit is the maximum load that the clamp are authorized to support when used in pairs with a lift angle of 60°. In lifting operations the clamps can be used in pairs or multiples.

产品代号 Item No.	规格(t) SWL	适用钢板厚度(mm) Thickness	单件重量(Kg) Weight Each
TH6501	0.8	0-15	2
TH6502	1.0	0-20	4
TH6503	1.6	0-25	6.5
TH6504	2.0	0-30	9
TH6505	2.5	0-40	11

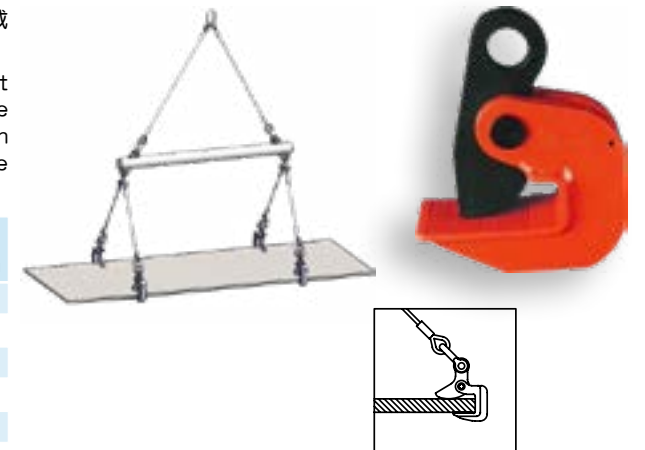


横吊钢板起重钳 Horizontal Plate Clamp

采用优质低碳合金钢制造，适用于钢板的水平吊运，吊运过程中不得碰撞吊运物。额定载荷指吊钩成对使用、吊点夹角且为60度时允许起吊的最大重量，吊装作业中两只或四只配套成组使用。

Made from die-forged alloy steels. Suitable for lifting and transport of steel plates in horizontal position. The working load limit is the maximum load that the clamp are authorized to support when used in pairs with a lift angle of 60°. In lifting operations the clamps can be used in pairs or multiples.

产品代号 Item No.	规格(t) SWL	适用钢板厚度(mm) Thickness	单件重量(Kg) Weight Each
TH6702	2.0	0-20	2.12
TH6703	3.0	0-30	3.4
TH6705	5.0	20-60	8.5
TH6708	8	50-100	16.2
TH67010	10	60-125	20.2

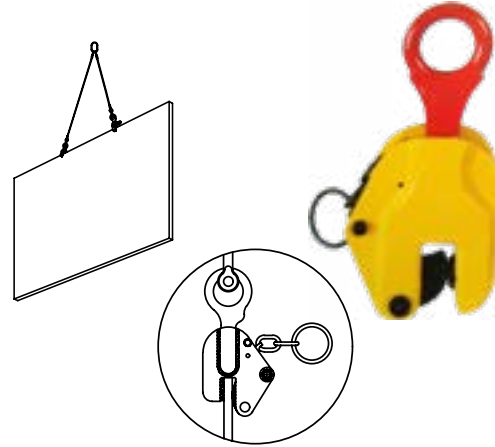


CDH系列竖吊钢板起重钳 CDH Vertical Plate Clamp

使用时清除钢板上油污杂物；两只起吊，起吊前必须扳紧制锁卡；仅限钢板单张起吊；安全系数3。

Decontamination on the steel plate lifting in pairs. Pull tight locker before lifting. Single steel plate lifting only. Safety factors: 3.

产品代号 Item No.	规格(t) SWL	适用钢板厚度(mm) Thickness	单件重量(Kg) Weight(Kg)
CDH0.8	0.8	0-16	2.8
CDH1	1.0	0-22	3.6
CDH2	2.0	0-30	5.5
CDH3.2	3.2	0-40	10
CDH5	5.0	0-50	17
CDH8	8.0	0-60	26
CDH10	10.0	0-90	432
CDH12	12.0	25-90	48
CDH16	16.0	60-125	80

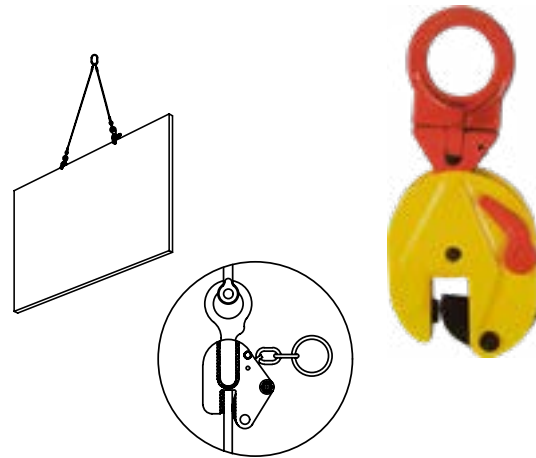


CD系列竖吊钢板起重钳 CD Universal Plate Clamp

使用时清除钢板上油污杂物；两只起吊，起吊前必须扳紧制锁卡；仅限钢板单张起吊；安全系数3。

Decontamination on the steel plate lifting in pairs. Pull tight locker before lifting. Single steel plate lifting only. Safety factors: 3.

产品代号 Item No.	规格(t) SWL	适用钢板厚度(mm) Thickness	单件重量(Kg) Weight(Kg)
CD0.8	0.8	0-15	2
CD1(B)	1.0	0-20	5
CD1.6	1.6	0-20	7
CD2	2.0	0-25/0-35	8
CD3.2	3.2	0-25	15
CD3.2(B)	3.2	0-30	15
CD5	5.0	0-30	21
CD5(B)	5.0	0-50	23
CD8	8.0	0-45	37
CD12	12.0	50-90	50
CD16	16.0	60-100	65

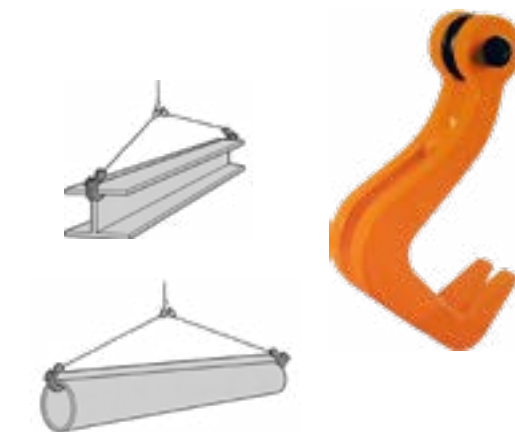


双板钢板起重钳 Double Steel Plate Clamp

采用优质合金钢制造，呈锐角形，容易插入狭小间隙，适用于钢板、(H、I、T、L形)构造物等的水平吊运，吊运过程中不得碰撞吊运物。额定载荷指吊钩成对使用、吊点夹角为60度时允许起吊的最大重量，吊装作业中两只或四只配套成组使用。

Made from die-forged special alloy steels and the sharp hook point is effective when inserting into a small clearance. Suitable for lifting and transport of steel plates, H, I, T and L shaped structured steel and plate steel in horizontal position. The working load limit is the maximum load that the clamp are authorized to support when used in pairs with a lift angle of 60°. In lifting operations the clamps can be used in pairs or multiples.

产品代号 Item No.	规格(t) SWL	适用钢板厚度(mm) Thickness	单件重量(Kg) Weight Each
TH6331	1.0	0-40	2
TH6332	2.0	0-50	3.5
TH6333	3.2	0-60	6
TH6335	5.0	0-70	14.5
TH6337	7.0	0-90	22



YG系列圆钢吊钳 YG Round Bar Clamp

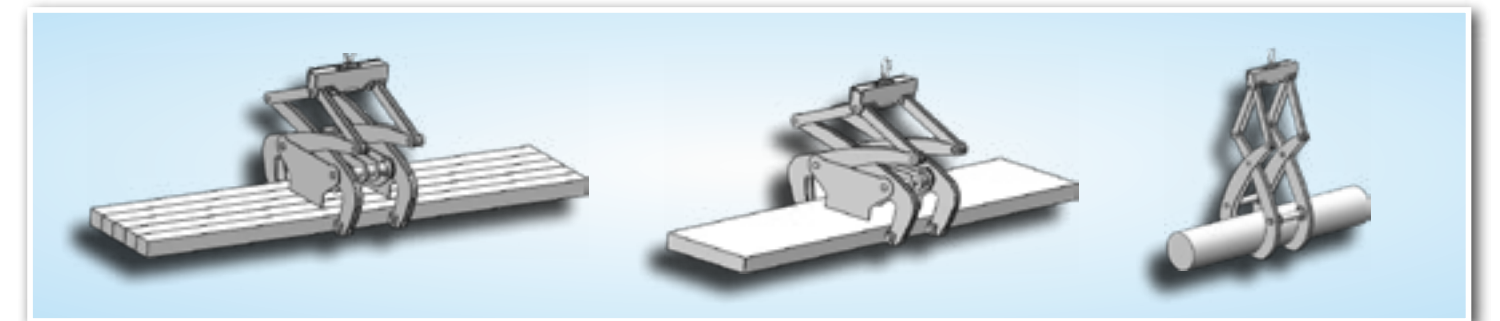
适合于钢管、圆钢、水泥管等的水平吊运；小巧、轻便、安全；带有安全锁装置。They are extremely easy and simple to use and make for safe lifting. Available with automatic open/close device.

产品代号 Item No.	规格(t) SWL	适用钢板厚度(mm) Thickness	单件重量(Kg) Weight Each
YG0.5	0.5	50-100	3.2
YG1	1.0	50-100	4.1
YG2	2.0	80-130	16
YG3	3.0	120-220	32
YG5	5.0	200-320	104



钢坯夹钳 Billet Clamp

载荷(t) SWL	跨度(mm) Height	适用范围 Width(mm)	最大外形尺寸 (mm) Max outer Dimension		重量(t) Weight
			长 L	宽 W	
10	1200	700-1200	2040	2680	2.5
15	1200	1000-1600	2420	3370	3.3
20	2000	1600-2100	2840	3700	5.5
30	2000	1800-2300	3630	4200	9.2



电动卷钢吊具 Electric Coil Clamp



卧式卷钢吊具 Horizontal Coil Clamp

A型：配重式卧式卷钢吊具，通过吊具自身的重量分配来满足空载和重载的平衡。
Type A: Weight Type Horizontal Coil Clamp, Ensure Balance of No Load and Overload by Weight Distribution of Clamp itself.



产品代号 Item No.	许用负荷 SWL	卷钢外径 Coil Outside Diameter	卷钢内径 Coil inside Diameter	卷钢长度 Coil Length	自重(Kg) Weight
TH6601	A-5t	900-1100	450-600	850-1000	850
TH6602	A-10t	1100-1300	450-600	1050-1200	1050
TH6603	A-15t	1250-1500	450-600	1150-1300	1275
TH6604	A-20t	1350-1600	500-650	1250-1400	1450
TH6605	A-25t	1500-1750	500-650	1300-1500	1800
TH6606	A-30t	1600-1850	500-650	1400-1600	2000
TH6607	A-40t	1900-2100	500-700	1500-1700	2200

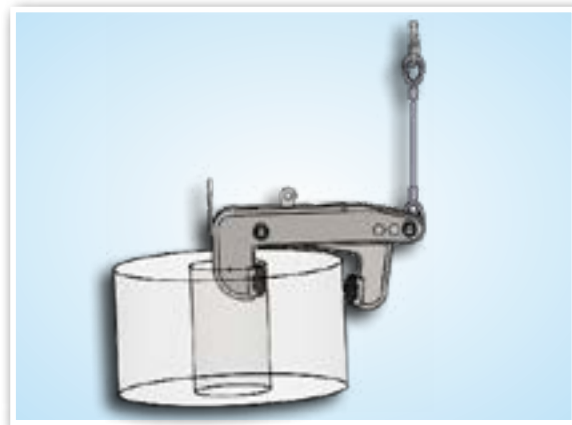
B型：内平衡卧式卷钢吊具，通过吊具内置的弹簧伸缩来满足空载和重载的平衡。
Type B: Balance Inside Type Horizontal Coil Clamp; Ensure Balance of No Load and Overload by Spring Stretch Inside Clamp



产品代号 Item No.	许用负荷 SWL	卷钢外径 Coil Outside Diameter	卷钢内径 Coil inside Diameter	卷钢长度 Coil Length	自重(Kg) Weight
TH6621	B-15t	1250-1500	450-600	1150-1300	850
TH6622	B-20t	1350-1600	500-650	1250-1400	1000
TH6623	B-25t	1500-1750	500-650	1300-1500	1200
TH6624	B-30t	1600-1850	500-650	1400-1600	1400

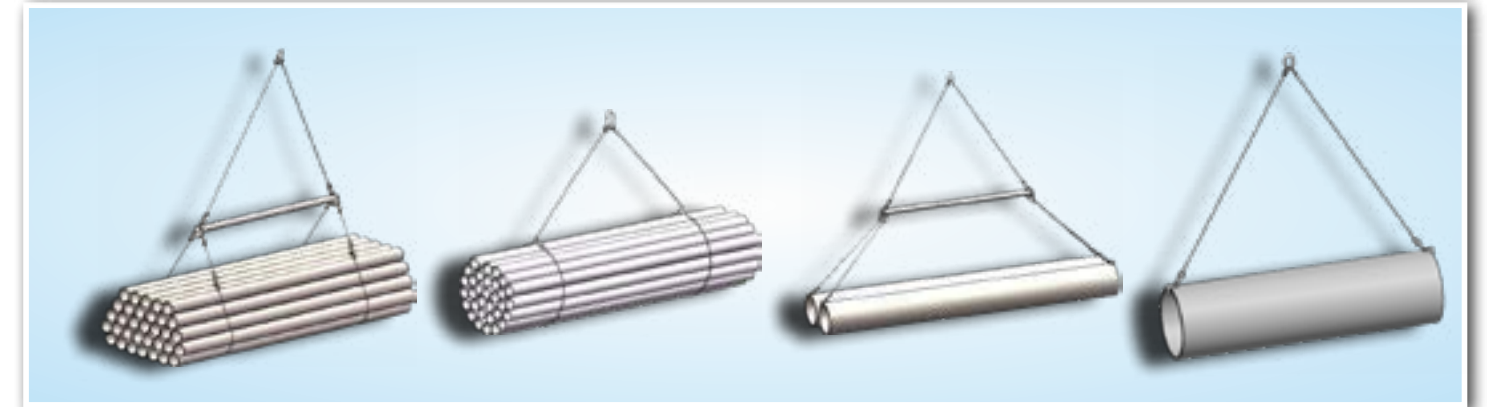


立式卷钢吊具 Vertical Coil Clamp



各式件杂货的吊装工艺 Different Lifting Technics for General Cargo

吊钩下钢丝绳与吊梁的吊系夹角一般采用60°，因起升高度所限的情况下最小夹角为45°
60° is normally accepted for the angle between wire rope and lifting beam. 45° is the smallest acceptable angle.



电磁吊具 Electromagnetic Lifter

- 自动永磁吊具 Automatic Permanent-Magnet Lifter
适用于搬运小型板件、钢结构件和机械零部件等。
Suit for the transportation of small steel structures or machinery.



额定起重量 SWL(t)	试验拉脱力(t) Max Breakaway Force	主要尺寸 (mm) Dimensions		重量(kg) Weight
		长 L	宽 W	
1	4	750	360	200
2	7.5	750	500	280
3	9	850	580	380
5	12.5	1200	620	750

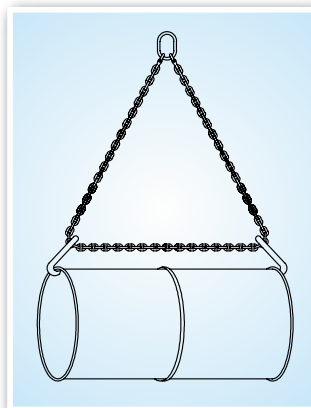
- 圆形电磁吸盘 Round Electromagnetic Lifter
适用于搬运铸铁锭、钢球及各种废钢。
Suit for the transportation of cast iron ingot, steel ball or scraps.



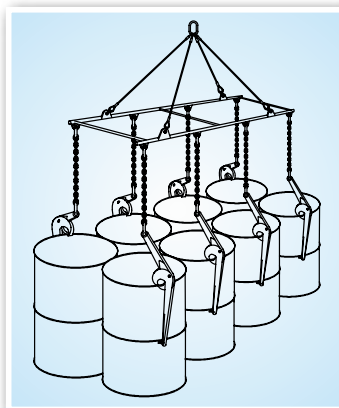
额定起重量 SWL(t)	废钢起重量 SWL (Kg)	主要尺寸 (mm) Dimensions		重量(kg) Weight
		直径 D	高度 H	
1	650	1300	1350	2100
2	1500	1800	1950	430
3	2000	2100	1950	6800
5	2500	2400	2050	9000



卧式油桶吊钩 Horizontal Oil Drum Lifting Clamp



立式油桶吊钩 Vertical Oil Drum Lifting Clamp



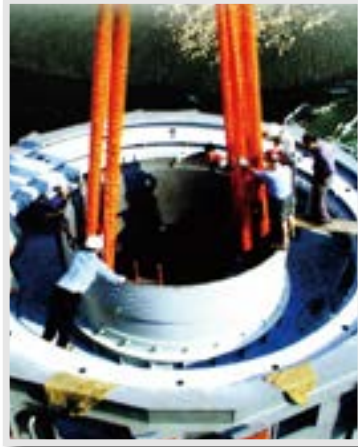
特种吊具 Special Lifting Spreader



合成纤维吊装带 Synthetic Fiber Sling

合成纤维吊装带（以下简称吊装带）为软吊装产品，采用非金属原料，属吊装行业中的钢丝绳、链条的换代产品，比同类金属绳链相对轻便。能解决实际吊装过程中大吨位、小吊装空间的吊装难题。吊装带有轻便、使用寿命长、减震性能好、不导电、不易腐蚀、保护被吊物品不被刮伤等特点。多次的断裂实验证明，吊装带相对于金属绳链产生的反向伤害几乎为零。吊装带采用国际标准化色来区分承载吨位，在使用过程中，吊装带上的标签磨损后，可通过调转大概外套的颜色识别承载重量。

Synthetic Fiber Sling (hereafter referred to as sling) is a soft lifting product. As a renewed product of wire rope and chain, it is made of non-metallic materials. Compared with similar metal rope or chain, the product is relatively lightweight. With this sling, problems in lifting of large tonnage and small space for lifting can be readily solved. The sling is characterized by lightweight, long service lifetime, shock absorption, non-conducting and non-corroding. The sling can protect the lifted objects from scratch. Several rupture proves that the sling hardly cause any resvers damage compared with metal rope or chains. International standard colors are used in the sling for differencing the carry tonnage. Since the label on the sling will be worn in operation.



吊装带荷载参照表 Technical Specification

产品编码 Item No	单根吊装带 Round Sling	单根吊装工作载荷 (kg) Working load of Single Sling				双根吊装工作载荷 (kg) Working load of double Sling		四根吊装工作载荷 (kg) Working load of four Sling		
		$7^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$	$7^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$	$7^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$	$7^\circ < \beta < 45^\circ$	$45^\circ < \beta < 60^\circ$	
	扁平吊装带 Webbing Sling									
	成套吊装带 Set Sling									
X=A-E	方式系数Way Coefficient	1.0	1.4	1.0	0.7	0.5	1.4	1.0	2.1	1.5
RX1-2	500Kg	500	700	500	350	250	700	500	1050	750
RX001	1000Kg	1000	1400	1000	700	500	1400	1000	2100	1500
RX002	2000Kg	2000	2800	2000	1400	1000	2800	2000	4200	3000
RX003	3000Kg	3000	4200	3000	2100	1500	4200	3000	6300	4500
RX004	4000Kg	4000	5600	4000	2800	2000	5600	4000	8400	6000
RX005	5000Kg	5000	7000	5000	3500	2500	7000	5000	10500	7500
RX006	6000Kg	6000	8400	6000	4200	3000	8400	6000	12600	9000
RX008	8000Kg	8000	11200	8000	5600	4000	11200	8000	16800	12000
RX010	10000Kg	10000	14000	10000	7000	5000	14000	10000	21000	15000
RX012	12000Kg	12000	16800	12000	8400	6000	16800	12000	25200	18000
RX015	15000Kg	15000	21000	15000	10500	7500	21000	15000	31500	22500
RX020	20000Kg	20000	28000	20000	14000	10000	28000	20000	42000	30000
RX025	25000Kg	25000	35000	25000	17500	12500	35000	25000	52500	37500
RX030	30000Kg	30000	43000	30000	21000	15000	42000	30000	63000	45000
RX040	40000Kg	40000	56000	40000	28000	20000	56000	40000		
RX050	50000Kg	50000	70000	50000	35000	25000	70000	50000		
RX060	60000Kg	60000	84000	60000	42000	30000	84000	60000		
RX080	80000Kg	80000	112000	80000	56000	40000	112000	80000		
RX100	100000Kg	100000	140000	100000	70000	50000	140000	100000		
RX200	200000Kg	200000	280000	200000	140000	100000	280000	200000		
RX300	300000Kg	300000	420000	300000	210000	150000	420000	300000		
RX400	400000Kg	400000	560000	400000	280000	200000	560000	400000		
RX500	500000Kg	500000	700000	500000	350000	250000	700000	500000		
RX600	600000Kg	600000	840000	600000	420000	300000	840000	600000		
RX700	700000Kg	700000	980000	700000	490000	350000	980000	700000		
RX800	800000Kg	800000	1120000	800000	560000	400000	1120000	800000		
RX900	900000Kg	900000	1260000	900000	630000	450000	1260000	900000		
RX1000	1000000Kg	1000000	1400000	1000000	700000	500000	1400000	1000000		

说明:

1. 吊装带的最大工作载荷与吊装方式有很大关系，吊装的角度不同，其吊装的最大工作载荷不同。
2. 双肢以上成套吊装带在编码后缀“-N”表示，N为肢数，有长度变化的产品，“-N”后缀“-Lm”表示，L为产品长度，m为长度变化量。例：RA010型单肢10m吊装带产品编码为RA010-10m，双肢的则为RA010-2-10m。
3. 吨位、长度规格一般以整数为单位。
4. 采用100%PES，安全系数6倍。工作温度：-40℃-100℃。安全负荷下，弹性伸长小于3%，破断延伸率为9%-12%。

Note:

1. Maximum working load of sling largely depends on way of lifting. Different angle of lifting results in different maximum working load.
2. For a set of sling with more than 2 limbs, code postfix "-N" is used for expression. N refers to number of limbs. For products of length change, "-Lm" postfix of "-N" is used for expression. L refers to product length and m refers to unit of length. E.g., product code of RA101 10m single-limb sling is RA010-10m and double-limb sling is RA010-2-10m.
3. Tonnage and length specification are usually expressed in integer.
4. When 100% PES is used, safety factor is sextupled. Working temperature: -40-100°C. Under safe load, elastic elongation is less than 3% and percentage elongation at rupture is 9-12%.

环形吊装带-普通环形吊装带 Round Sling-Common Round Sling

● RA环形吊装带 RA Round Sling

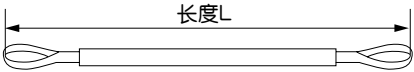
RA环形吊装带，质地柔软、可吊点多，缠绕性好。
RA Round Sling is soft in texture and with multiple suspension points and is entanglement.
SWL 0.5-200t



产品编码 Item No	颜色 Color	额定载荷 (kg) Rated Load	近似厚度 (mm) Thickness	近似宽度 (mm) Width	最小长度 (m) Min Length	最大长度 (m) Max Length
RA1/2	Orange	500	4	50	0.5	按客户需求制作 To be customized
RA001	Purple	1000	6	50	0.5	
RA002	Green	2000	8	60	0.5	
RA003	Yellow	3000	9	70	0.5	
RA004	Grey	4000	11	70	0.5	
RA005	Red	5000	13	85	0.5	
RA006	Brown	6000	13	85	1.0	
RA008	Dark Blue	8000	13	120	1.0	
RA010	Orange	10000	14	120	2.0	
RA012	Orange	12000	15	130	2.0	
RA015	Orange	15000	18	130	2.0	
RA020	Orange	20000	20	140	2.5	
RA025	Orange	25000	24	140	2.5	
RA030	Orange	30000	32	145	2.5	
RA040	Orange	40000	40	150	2.5	
RA050	Orange	50000	45	175	2.5	
RA060	Orange	60000	65	205	4.0	
RA080	Orange	80000	70	250	4.0	
RA100	Orange	100000	80	290	4.0	
RA200	Orange	200000	120	465	5.0	
RA300	Orange	300000	160	555	5.0	
RA400	Orange	400000	200	700	5.0	
RA500	Orange	500000	220	790	8.0	
RA600	Orange	600000	240	875	8.0	
RA700	Orange	700000	260	920	8.0	
RA800	Orange	800000	280	985	8.0	
RA900	Orange	900000	300	1050	9.0	
RA1000	Orange	1000000	320	1080	9.0	

● RB环形吊装带 RB Round Sling

RB环形吊装带是在RA环形吊装带的基础上加护套，且两端有固定吊装环套。
RB Round Sling is a jacketed RA round sling. It is of strong wear resistance.
Both ends of the sling are fitted with fixed lifting bushing.
SWL 0.5-200t

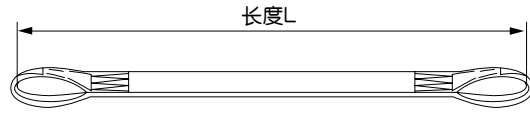


产品编码 Item No	颜色 Color	额定载荷 (kg) Rated Load	近似厚度 (mm) Thickness	近似宽度 (mm) Width	最小长度 (m) Min Length	最大长度 (m) Max Length
RB1/2	Orange	500	11	60	1	按客户需求制作 To be customized
RB001	Purple	1000	14	60	1	
RB002	Green	2000	20	70	1	
RB003	Yellow	3000	25	85	1.5	
RB004	Grey	4000	27	85	1.5	
RB005	Red	5000	29	120	1.5	
RB006	Brown	6000	29	120	1.5	
RB008	Dark Blue	8000	29	140	2.0	
RB010	Orange	10000	30	140	2.0	
RB012	Orange	12000	31	140	2.0	
RB015	Orange	15000	32	140	2.0	
RB020	Orange	20000	33	175	2.5	
RB025	Orange	25000	34	185	2.5	
RB030	Orange	30000	68	205	2.5	
RB040	Orange	40000	75	250	2.5	
RB050	Orange	50000	86	260	2.5	
RB060	Orange	60000	126	270	4.0	
RB080	Orange	80000	138	335	4.0	
RB100	Orange	100000	152	430	4.0	
RB200	Orange	200000	230	540	5.0	
RB300	Orange	300000	300	650	5.0	
RB400	Orange	400000	370	800	5.0	
RB500	Orange	500000	400	875	8.0	
RB600	Orange	600000	450	960	8.0	
RB700	Orange	700000	490	1050	8.0	
RB800	Orange	800000	510	1100	8.0	
RB900	Orange	900000	570	1190	9.0	
RB1000	Orange	1000000	600	1240	9.0	

扁平吊装带—普通扁平吊装带 Webbing Sling—Common Webbing Sling

扁平吊装带结构紧凑，相对于环形吊装带来说它有与物体接触面积大、带身厚、表面平整、耐磨性好等优点，使用广泛。
Webbing Sling is compact in structure. Compared with round sling, the contact area with the object of webbing sling is larger, the sling body is thicker and its surface is more flat and more wear resistance. It is widely used.

WA扁平吊装带WA Webbing Sling



产品编码 Item No.	颜色 Color	额定载荷(Kg) Rated Load	近似厚度(mm) Thickness	近似宽度(mm) Width	最小长度(m) Min Length	最大长度(m) Max Length
WA1/2		500	4	25	0.9	按 客 户 需 求 制 作 To be customized
WA001		1000	6	40	1.1	
WA002		2000	7	60	1.2	
WA003		3000	7	80	1.3	
WA004		4000	8	100	1.4	
WA005		5000	11	100	2.0	
WA006		6000	8	150	2.0	
WA008		8000	8	200	2.0	
WA010		10000	8	250	3.0	

WH耐磨吊装带 WH Pressed Rubber Webbing Sling



产品编码 Item No.	颜色 Color	额定载荷(Kg) Rated Load	近似厚度(mm) Thickness	近似宽度(mm) Width	最小长度(m) Min Length	最大长度(m) Max Length
WH002		2000	17	70	1.5	按 客 户 需 求 制 作 To be customized
WH005		5000	21	110	2.0	
WH008		8000	18	210	2.0	
WH010		10000	18	260	3.0	

WD扁平吊装带WD Webbing Sling



产品编码 Item No.	颜色 Color	额定载荷(Kg) Rated Load	近似厚度(mm) Thickness	近似宽度(mm) Width	最小长度(m) Min Length	最大长度(m) Max Length
WD001		1000	4	25	0.5	按 客 户 需 求 制 作 To be customized
WD002		2000	6	40	0.5	
WD006		6000	7	80	1.5	
WD008		8000	8	100	1.5	
WD010		10000	7	150	1.5	

环形吊装带—高强环形吊装带 Round Sling—High-Strength Round Sling



高强吊装带是为了满足客户对吊装索具的体积更小、重量更轻、操作更方便的需求，在RA、RB、RC、RD、RE产品形式之上，采用高强材料和特殊工艺生产的吊装带产品。

High-Strength Round Sling is a sling product manufactured with high-strength materials and by applying special production process on the basis of the product forms of RA, RB, RC, RD and RE for meeting the demand of the customers for smaller and lighter lifting sling.

SWL 0.5-200t

RHA/RHB高强环形吊装带 RHA/RHB High-Strength Round Sling

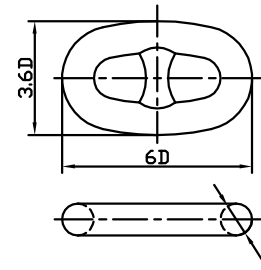
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RHA001		1000	3	20	1.5	按 客 户 需 求 制 作 To be customized
RHA002		2000	4	25	1.5	
RHA003		3000	5	30	1.5	
RHA005		5000	7	40	1.5	
RHA008		8000	10	50	2.0	

锚链附件 Anchor Chain Accessories

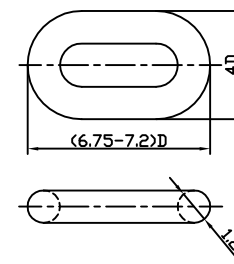
锚链链环 Anchor Chain Ring



Ⓒ 普通环



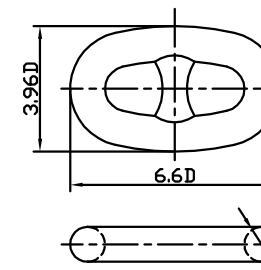
Ⓔ 末端环



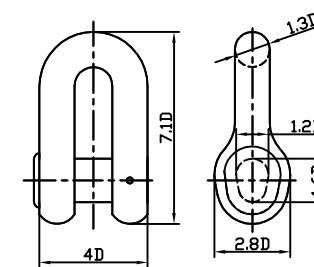
肯特卸扣 Kent Shackle (KS)



ⒺL 加大环



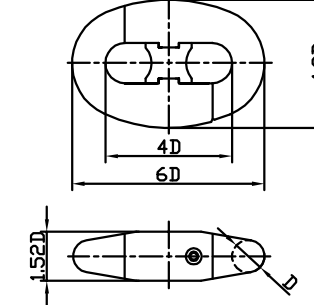
Ⓙ JS D型连接卸扣



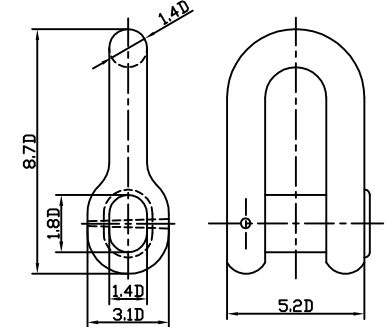
锚链转环 Anchor Chain Swivel (SW)



ⒿKS 肯特式卸扣



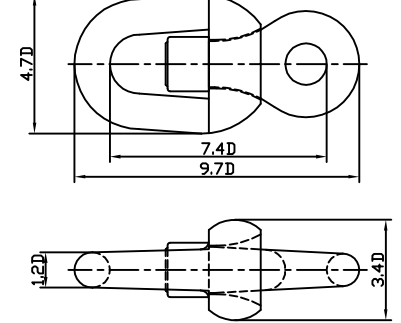
ⒿAS D型末端卸扣



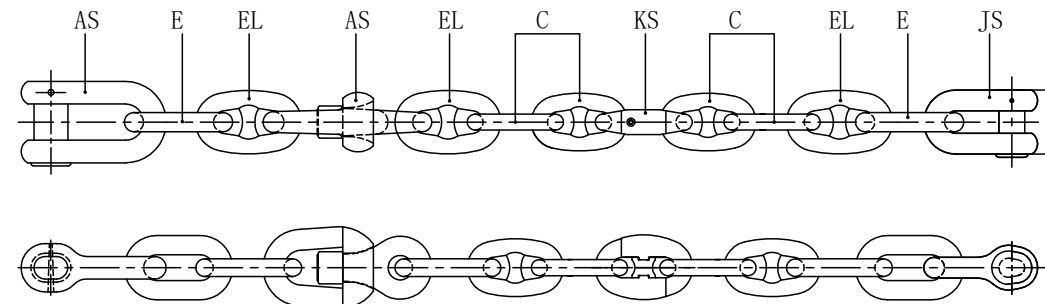
末端卸扣 End Shackle



ⒿAS 转环



有档锚链有锚端链节、末端链节和若干中间链节组成，链节和链节之间用连接卸扣连接。
Anchor chain contains end links and general links, and links are connected by shackles.

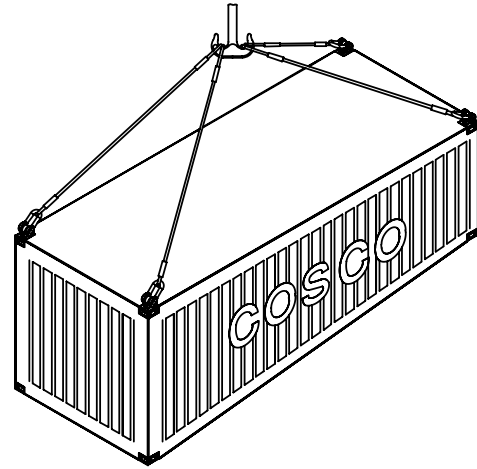


集装箱锁头 Container Lock Head

吊环式集装箱锁头和插片式集装箱锁头用法相同，配上四根钢丝绳即可成为一种最简易的集装箱吊具。
旋入集装箱顶部的四个锁孔内，手工旋转90度，放下制锁片即可起吊。

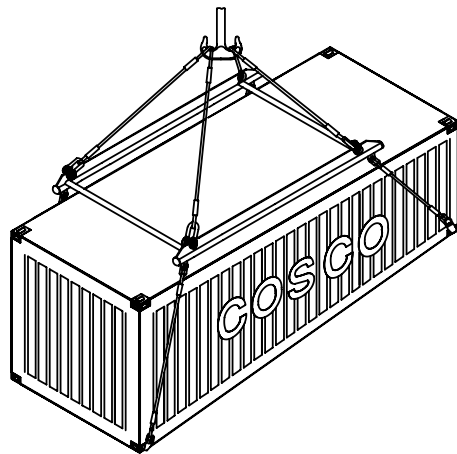
The usage of ring type container lock head and inserted container lock head are the same. Equipped with four wire ropes; it is a simple container spreader.

Insert into four holes at the top of the container, manually rotate 90 degrees and put down stopping lock plate, and then the spreader can lift.



集装箱底侧锁头一般用于无顶集装箱的吊运，配以钢丝绳吊索即可完成吊装作业。

Container bottom side lock head used for open top container with wire rope sling to lift



集装箱转锁是各种集装箱吊具中最关键的部件。

Container twist lock is the key component of container spreader.



无动力集装箱自动吊具 Automatic container spreader with no power

适用于40t门机下的集装箱装卸，具有重量轻、无需动力、操作简便和投入少等优点。

规格为：20英尺28t、40英尺35t

Suit for container cranes under 40t, which is light, no need for power supply, easy to operate and less investment.

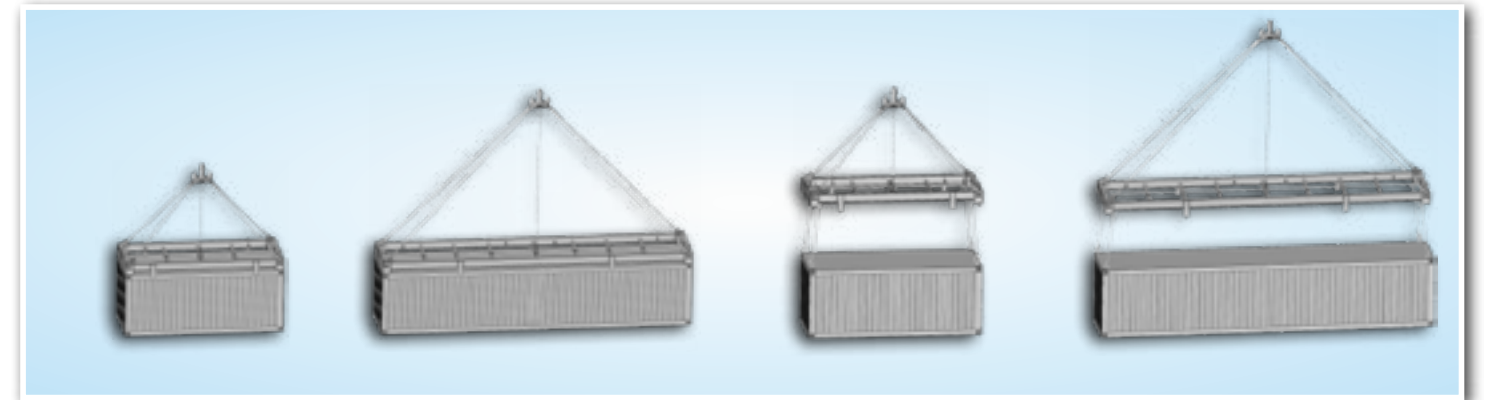
Two types of spreader: 28t for 20 feet, 35t for 40 feet.

操作步骤：

- 1、把吊具上吊索和中间开闭绳挂上起重机吊钩，确认吊具旋锁处于开锁状态；
- 2、吊钩吊起吊具至集装箱上对准锁孔落下吊具；
- 3、小幅上提吊钩拉动中心开闭绳，确认四角旋锁转至闭锁状态且闭锁指针已旋转90°；
- 4、吊起集装箱并放到指定位置；
- 5、重新提起吊钩拉动中心开闭绳，使四角旋锁转至开锁状态且指针回转90°，继续提起吊钩，吊具离开集装箱，完成一个作业循环。

Operation:

1. Put thimble and sling onto the hook, and make sure the locks are open.
2. Lift the hooks upto container keyholes, lower the thimble.
3. lift the hook a bit and pull the close rope in the middle and make sure it is locked, pin to 90°.
4. Lift the container to the appointed location.
5. Pull the rope in the middle again, pin back 90° and open the lock, lift the hook, away from the container.





桥梁建筑工装系列 Bridge&Construction Lifting Equipment



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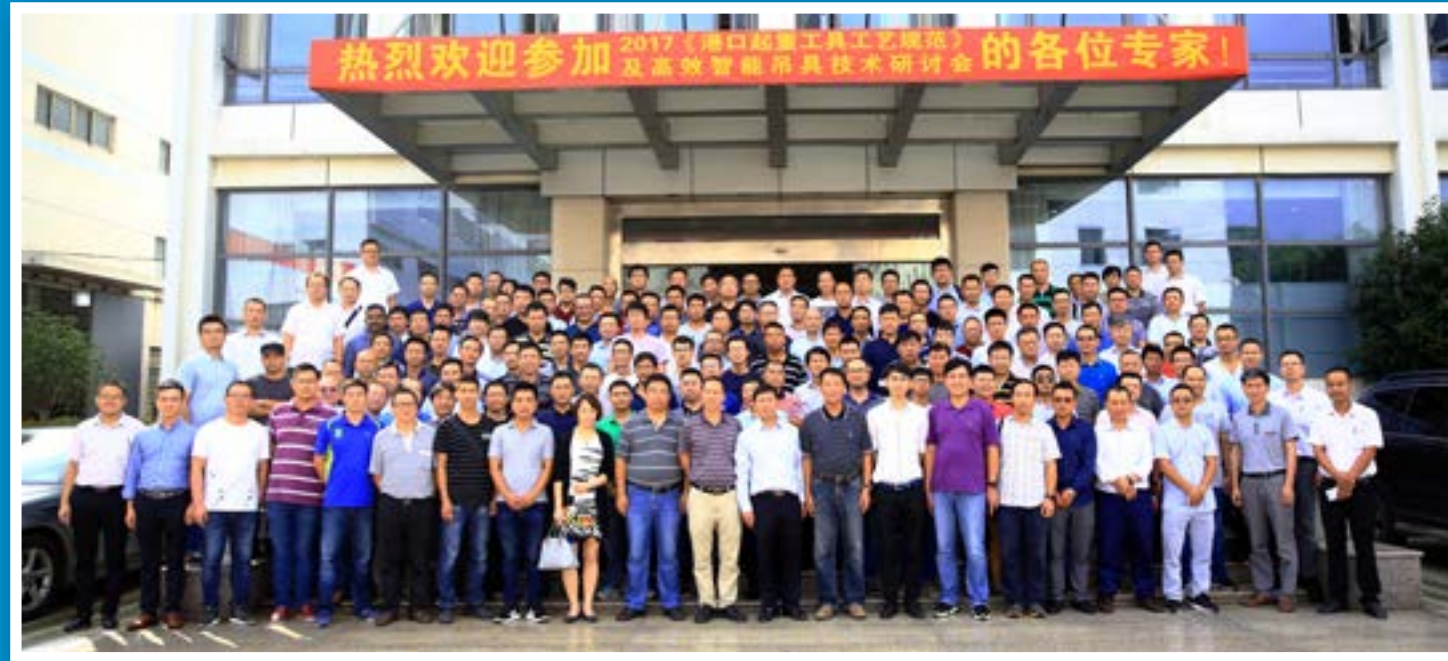




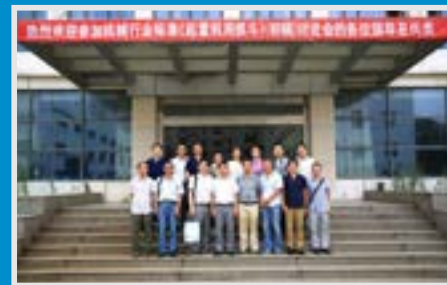
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2017《港口起重工具工艺规范》 高效智能吊具技术研讨会
2017《Portal Lifting Equipment Process Specification》 & High-efficient and Intelligent Lifting Tools Tech Seminar



机械行业标准《起重用抓斗》(初稿)讨论会
Machinery Standard《Crane Grab Bucket》Seminar



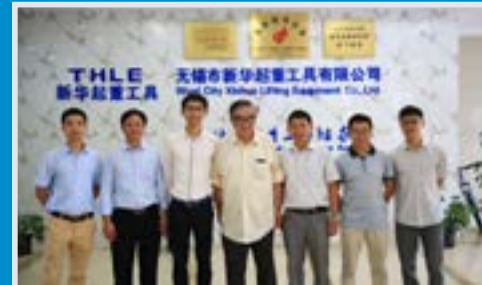
机械行业标准《起重用抓斗》(初稿)讨论会进行中
Machinery Standard《Crane Grab Bucket》Seminar in Process



2017公司质量、环境、职业健康安全体系专家评审会
2017 Quality, Environment, Professional Health and Safety System Expert Evaluation Meeting



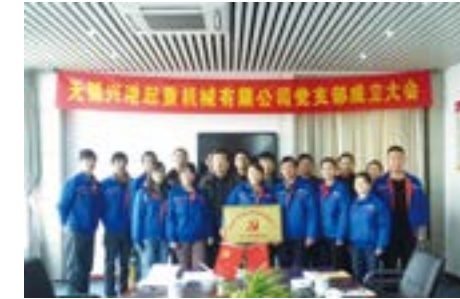
尚和船务1200吨风电安装船起重吊钩专家评审会
Expert Evaluation Meeting of Lifting Hook for Shanghai Zhenhua Marine's 1200t Wind Farm Installation Vessel



振华重工原总裁管彤贤先生 临公司指导工作
Mr. Guan Tongxian, Former President of Shanghai Zhenhua Heavy (ZPMC), Comes to Visit



欧洲客户在公司参观交流
Visits of European Clients



公司党支部成立
The Establishment of the Party Branch



年度销售会议
The Annual Sales Meeting



全体职工大会
The Meeting of the Entire Staff



公司成立十五周年庆典
The 15th Anniversary of the company's Founding



年度优秀管理人员颁奖
Annual Awards for Outstanding Management Personnel



公司成立二十周年庆典
The 20th Anniversary of the company's Founding



职工乒乓球比赛
The Staff Table Tennis Competition



职工乒乓球比赛
The Staff Table Tennis Competition



西安旅游活动
Staff Group Toursim in Xi'an



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