



FLAGCRANE

FLAG CRANE



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SPREADER/CLAMP



Henan FLAG Crane Co.,Ltd.

Henan FLAG Crane Co.,Ltd.is a professional group company with the ability of design, manufacture, sale, installation and maintenance of cranes. We are located in Changyuan Lifting Industrial Park, Henan Province, covering an area of more than 850,000 square meters, modern heavy-duty steel production workshop of more than 400,000 square meters, registered capital of 560 million yuan. At present, there are more than 1600 employees, more than 200 middle and senior professional technicians and managers.

We have been certificated by ISO9001 system, OHSAS18001 system and ISO14001 system.

We have achieved honors "Henan Famous Brand Products", "Henan Province Famous Mark", "Henan Province High and New Tech Enterprise", "AAA Trustworthy Enterprises", "Henan Province Quality Control Excellent Enterprise" etc.

We have supplied 800T Double Girder Gantry Crane,360T Europe Type Double Girder Overhead Crane,225T Foundry Overhead Crane and other single girder, double girder cranes,electric hoists to various clients at different applications.



Overhead Crane CE



Electric Hoist CE



Gantry Crane CE



ISO 19001



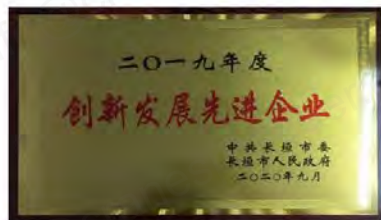
ISO 24001



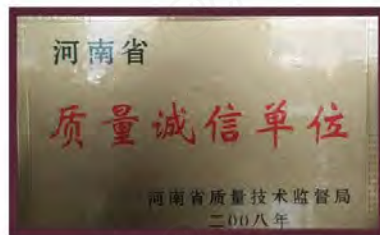
ISO 45001



Manufacturing Licenses



Advanced Enterprise



Quality And Integrity



Uncoiler Machine



CNC Cutting



Sand Blasting



Province Top Listed Enterprise



Innovation Driven Enterprise



U Channel Bending



CNC



Boring Machine



Industrial Benchmark



Intelligent Crane Supplier



Press Machine



Drum Processing



Welding Machine



CMES Member



Province Intelligent Crane Research Center



Welding Machine



Welding Machine



Welding Machine

冶金夹具、吊具系列

Metallurgical spreader/clamp series

冶金吊具是由奥发根据不同的吊装要求自主研发，设计的系列产品。目前不仅能设计生产纯机械杠杆的吊具，还可以设计生产各种电动类、液压类、真空气动类吊具，可完成各种繁杂的吊装动作。多年来我公司积累了大量的生产及吊装经验，可生产单梁、双梁、十字梁、井字梁、大型滑车、大型吊钩等产品，专业用于大型物件的吊运。

Metallurgical spreader is by the Aofa according to the requirements of the different segments of autonomous research and development, the design of series products. by using the principle of the mechanical, electric, electrical principle of the hydraulic principle, forming machine, electric, automatic fixture used in metallurgical industry professional hoisting also research and development design single, double beam and cross beam, tic-tac-toe beam, large block, large hook and other products series. Professional lifting for large objects.



钢坯夹具 Steel Billet clamp

钢坯吊具主要用于钢坯的多根吊运。Billet spreader is mainly used for lifting many steel billets.

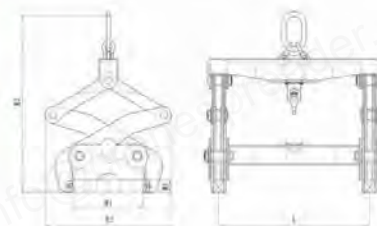
A 型方坯夹具 A Type-square clamp

应用范围：适用于常温或高温的多根方坯、小矩形坯的水平吊运。
工作特征：自动启闭，动作灵活，操作安全可靠，无需地面人员配合；可增设调节机构，适用于不同规格和不同层数的方坯；
额定范围：3-32 吨
技术支持：可根据用户要求特殊设计。

Application: apply to many normal temperature or high temperature of billet, the small rectangular billet horizontal lifting;

Work features: automatic opening and closing, flexible motion, safe and reliable operation, no ground personnel; Can add adjusting mechanism, suitable for different specifications and different layers of the billet, rated load range: 3-32 tons

Technical support: we can special design according to user requirements.

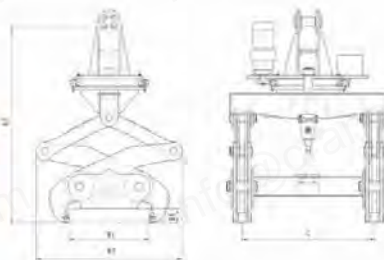


产品编码 Product Code	额定载荷 Rated Load (t)	适用范围 Scope of application (mm) W1	钳腿高 Clamp legs height (mm) H1	跨度 Span (mm) L	最大外形尺寸 The largest dimension (mm)	
					W2	H2
DBP5	5T	250~450	150	600	1350	1750
DBP5	5T	450~750	150	1000	1600	2200
DBP8	8T	600~900	300	1200	1650	2200
DBP8	8T	900~1200	300	1200	2210	3200
DBP12	12T	1200~1600	300	1600	2560	3370
DBP12	12T	1300~1800	300	1600	2880	3450
DBP16	16T	1200~1600	450	1600	2560	3500
DBP16	16T	1300~1800	450	1600	2880	3750
DBP20	20T	1600~2100	450	1600	3360	3780
DBP20	20T	1800~2300	450	1600	3680	3980
DBP25	25T	1300~1800	550	1800	2880	4000
DBP25	25T	1600~2100	550	1800	3360	4030
DBP32	32T	1800~2300	550	1800	3680	4230
DBP32	32T	2100~2600	550	1800	4160	4500
DBP50	50T	1800~2300	750	2000	3680	4280
DBP50	50T	2100~2600	750	2000	4160	4800
DBP80	80T	1800~2300	750	2000	3680	4580
DBP80	80T	2400~3200	750	2000	5120	5900

B 型电动旋转热坯吊具 B Type electric rotary heat billet spreader

1. 作用: 实现钢坯的吊运并进行自动旋转。
2. 原理: 采用二次杠杆工作原理, 结构简单, 动作灵活, 吊运安全可靠。不需任何外力可自动实现钳口的开闭动作。
3. 此吊具适用于单钩行车吊运, 也可根据客户的需求进行特殊设计。

1. application: to realize automatic lifting and billet.
2. the principle: the second lever principle of work, simple structure, flexible motion, lifting safety and reliability. Without any external force can automatically realize the opening of the jaw movement.
3. this sling is applicable to single hook crane hoisting, can also according to customer demand for special design.



产品编码 Product Code	额定载荷 Rated Load (t)	适用范围 Scope of application (mm) W1	钳腿高 Clamp legs height (mm) H1	跨度 Span (mm) L	最大外形尺寸 The largest dimension (mm)	
					W2	H2
DBP5	5T	250~450	150	600	1350	1750
DBP5	5T	450~750	150	1000	1600	2200
DBP8	8T	600~900	300	1200	1650	2200
DBP8	8T	900~1200	300	1200	2210	3200
DBP12	12T	1200~1600	300	1600	2560	3370
DBP12	12T	1300~1800	300	1600	2880	3450
DBP16	16T	1200~1600	450	1600	2560	3500
DBP16	16T	1300~1800	450	1600	2880	3750
DBP20	20T	1600~2100	450	1600	3360	3780
DBP20	20T	1800~2300	450	1600	3680	3980
DBP25	25T	1300~1800	550	1800	2880	4000
DBP25	25T	1600~2100	550	1800	3360	4030
DBP32	32T	1800~2300	550	1800	3680	4230
DBP32	32T	2100~2600	550	1800	4160	4500
DBP50	50T	1800~2300	750	2000	3680	4280
DBP50	50T	2100~2600	750	2000	4160	4800
DBP80	80T	1800~2300	750	2000	3680	4580
DBP80	80T	2400~3200	750	2000	5120	5900

C 型板坯夹具 C type-the slab clamp

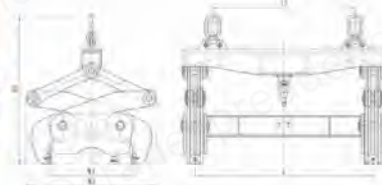
- 应用范围: 适用于常温或高温的中厚板坯的水平吊运。
- 工作特征: 自动启闭、动作灵活、操作安全可靠。无需地面人员配合; 可增设调节机构, 适用于不同规格和不同层数的板坯。
- 额定范围: 5~80 吨。
- 技术支持: 可根据用户要求特殊设计。

Application: To apply the normal or high temperature medium plate, slab to be horizontal lifting.

Work features: automatic opening and closing, flexible motion, safe and reliable operation, no ground personnel. Can add adjusting mechanism, suitable for different specifications and different layers of the slab.

Frontal range: 5-80 tons.

Technical support: we can special design according to user's requirements.



产品编码 Product Code	额定载荷 Rated Load (t)	适用范围 Scope of application (mm) W1	钳腿高 Clamp legs height (mm) H1	跨度 Span (mm) L	最大外形尺寸 The largest dimension (mm)	
					W2	H2
DFF3	3	100~300	150	600	1060	1520
DFF5	5	250~450	160	600	1350	1750
DFF5	5	400~600	160	1000	1460	2050
DFF5	5	450~750	160	1000	1500	2080
DFF8	8	400~600	160	1600	1460	2050
DFF8	8	450~750	160	1600	1500	2080
DFF8	8	600~900	160	1600	1650	2200
DFF8	8	750~1050	160	1600	1826	2950
DFF8	8	900~1200	160	1600	2210	3200
DFF12	12	450~750	180	2500/4000	1500	2080
DFF12	12	600~900	180	2500/4000	1650	2200
DFF12	12	750~1050	180	2500/4000	1826	2950
DFF12	12	900~1200	180	2500/4000	2210	3200
DFF16	16	750~1050	200	2500/4000	1826	2950
DFF16	16	900~1200	200	2500/4000	2210	3200
DFF20	20	960~1280	200	2500/4000	2460	3450
DFF20	20	1200~1600	200	2500/4000	2950	3660
DFF25	25	600~900	320	2500/4000	1850	2650
DFF25	25	750~1250	320	2500/4000	2015	3180
DFF32	32	900~1200	400	2500/4000	2240	3340
DFF32	32	960~1280	400	2500/4000	2430	3650

各类钢坯吊具样式与应用 All kinds of steel billet sling style and application



吊耳轴大跨度型
Lug shaft type large span



吊环大跨度型
Rings large span type



主副钩开闭型应用
Main and deputy hook opening and closing type



主副钩开闭型应用
Main and deputy hook opening and closing type



码头吊装实例
Port lifting instance



四腿型出厂
Four legs clamp shipping



双层钢坯起吊型应用
Double steel billet lifting applications



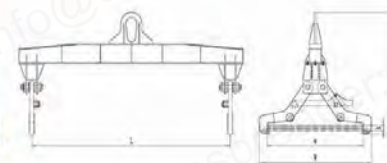
四腿型应用
Four legs clamp application

中板吊具 Medium plate sling

1. 原理：采用杠杆工作原理，结构简单，动作灵活，吊运安全可靠。不需任何力源自重锁紧，开闭器定位，自动实现钳口的开闭动作。
2. 作用：适用于6-10mm的薄板多层吊运。
3. 中板下必须有适当的枕木，并且钢板堆放需规则平整。

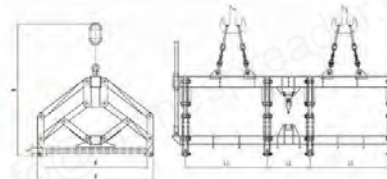
1. The use of automatic leveraged working principle, its structure is simple and reasonable, operating cicidly, lighting on the safe side. No need to provide any drive, depending on the self-respect lock, switch fixed position.
2. application: it is suitable in the 6-10mm thin steel plate multi-layer hoisting
3. Must have the appropriate sleepers, steel plate need put neat.

A型支撑杆式中板夹具 A type Support bar type Medium plate clamp



产品编码 Product Code	额定载荷 Rated load (t)	适用范围W Scope of application (mm)	夹持最大板厚h Holding the largest thickness (mm)	跨度L Span (mm)	最大外形尺寸The largest dimension(mm)		自重 Self Weight (mm)
					W	H	
ZBDJ-10	10	1800-2400	100	2500	3300	2800	1900
ZBDJ-10	10	2300-2900	100	2500	3900	2600	2000
ZBDJ-16	16	750-1430	100	2500	2000	2200	1600
ZBDJ-25	25	1800-2600	200	4000	3750	3300	3400
ZBDJ-25	25	1700-2800	200	6000	3900	3300	4400
ZBDJ-25	25	2000-3200	100	3000	4500	4800	3400
ZBDJ-32	32	1600-3250	300	5000	4200	3900	4200
ZBDJ-32	32	800-1630	250	3000	2900	3500	4500

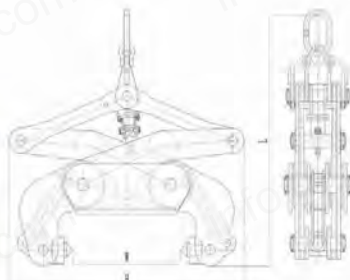
B型转锁式中板夹具 B type switch to lock type Medium plate clamp



产品编码 Product Code	额定载荷 Rated load (t)	适用范围W Scope of application (mm)	钳腿高h Clamp legs height (mm)	跨度L Span (mm)	最大外形尺寸The largest dimension(mm)	
					W	H
DZB10B	10	1280-1580	170	4000	2480	1700
DZB15B	15	1800-2500	200	5500	3400	2830
DZB25B	25	2000-2800	200	6000	3700	3240
DZB35B	35	2000-2800	200	6000	3700	3240
DZB45B	45	2000-3000	200	6000	3900	3500

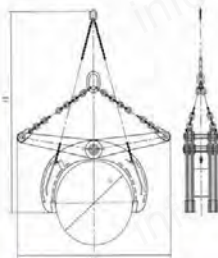
钢锭夹具 Steel ingot clamp

A 型竖式 A type vertical



产品编码 Product Code	额定载荷 Rated load (t)	开口 W Opening (mm)	最大外形尺寸 The largest dimension (mm)		自重 Self Weight (kg)
			H	L	
LFJJ-5	5	1020	2112	2400	1600
LFJJ-10	10	1150	2240	2670	2500
LFJJ-15	15	1450	2260	2910	4000

B 型卧式 B type horizontal



产品编码 Product Code	额定载荷 Rated load (t)	适用范围 Scope of application (mm)	最大外形尺寸 The largest dimension (mm)		自重 Self Weight (kg)
			W	H	
GDDJ-25	25	φ 0 - φ 1750	4100	8300	5500
GDDJ-63	63	φ 400 - φ 3500	6300	10000	13800
GDDJ-150	150	φ 700 - φ 3500	8000	12500	32000
GDDJ-350	350	φ 2000 - φ 4800	8000	11500	47000
GDDJ-550	550	φ 3000 - φ 5000	9300	11500	103000

液压翻转夹具 Hydraulic flip clamp

由吊耳、梁体、钳腿、油缸、液压控制系统、电气及电气控制系统、电缆卷筒等部分组成。

夹取准确，夹紧力大，效率高，安全可靠，技术先进，维修方便。

夹紧力由液压控制，可调节夹紧力大小，在液压系统中配有液压锁，能保持油缸压力可避免出现安全事故。

油缸、液压泵及阀体均为国际知名产品。

广泛应用于铝厂铸铝锭在竖井中吊出，水平放下，亦可完成水平吊运。

可根据用户要求进行特殊设计。

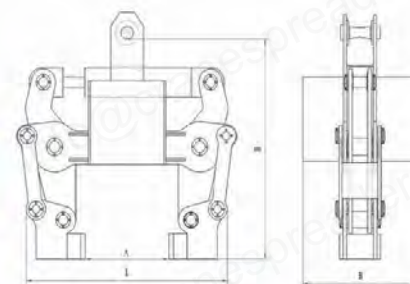
Hanging from the ears, beam, clamp legs, electric control systems, cable reel, and other parts.

Folder get accurate, efficient, safe and reliable, light weight, technologically advanced, easy maintenance.

Clamping force by the hydraulic control, adjustable clamping force size, in the hydraulic system with hydraulic lock, to maintain pressure on the fuel tank that to avoid accidents.

Widely used in aluminum ingot casting hanging out in vertical wells, put them down with horizontal and then finished the horizontal lifting.

May carry on the special design according to the users' requests.

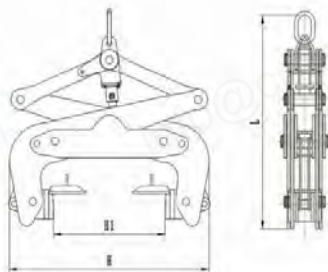


产品编码 Product Code	额定载荷 Rated Load (t)	适用范围 Application scope (mm)	最大外形尺寸 The largest dimension (mm)			自重 Self Weight (kg)
			L	B	H	
YFLJ-20	20	900-1630	3200	1600	2570	5000
YFLJ-30	30	1500-2100	3680	1600	2570	5000

铝坯翻转夹具 Aluminum billet flip clamp

1. 应用：广泛应用于铝厂铸铝锭在竖井中吊出，水平放下，亦可完成水平吊运。
2. 可根据客户要求要求进行特殊设计。

1. Application: widely applied in the aluminum casting aluminum ingots hanging out in the vertical Wells, put down with horizontal and then can finished the horizontal lifting.
2. can be designed according to customer's requirement.

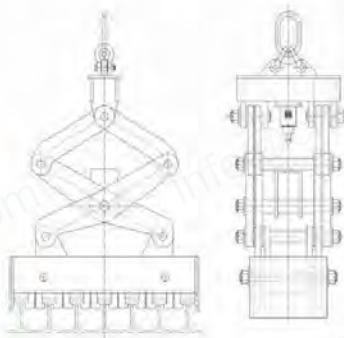


产品代码 Product Code	额定载荷 Rated load (t)	开口 H1 opening (mm)	最大外形尺寸 The largest dimension (mm)		自重 Self Weight (kg)
			H	L	
LFJJ-5	5	1020	2112	2400	1600
LFJJ-10	10	1150	2240	2670	2500
LFJJ-15	15	1450	2260	2910	4000

钢轨夹钳 Rail spreader

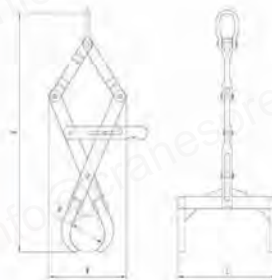
1. 长钢轨专用起重吊具具有结构新颖，刚性好、重量轻等特点。
2. 适用于多根钢轨共同起吊。
3. 可根据客户的需要进行特殊设计。

1. The special spreader for long rail has the advantages of novel structure, good rigidity, light weight, etc.
2. Suitable for more rails lifting together.
3. Can be designed according to customer's requirements.



石油钻杆吊具 Oil drill pipe spreader

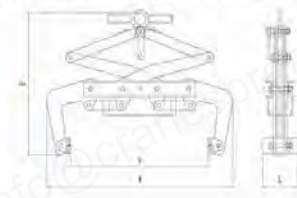
用于石油钻杆的吊装。It used for lifting oil drill pipe.



硅锭夹具 Silicon ingot clamp

1. 特点：此结构夹具采用多节点特殊连接设计，底部定位板支撑能有效保护硅锭不受冲击损伤，具有夹持平稳有力，不易晃动，使用方便安全的特点。还可以有效降低夹具在夹持硅锭过程中由于重力作用导致应力扩展进入硅锭内部。
2. 用途：适用于硅锭的吊运。
3. 可根据客户的需要进行特殊设计。

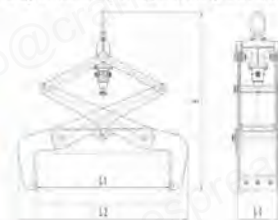
1. Features: the structure of fixture using multi-node special connection design, positioning plate at the bottom of the support can effectively protect the silicon ingot from impact damage, are characterized by their smooth holding strong, hard to shake, easy to use security features. Can effectively reduce the jig in the process of clamping silicon ingot extends into silicon ingot internal stress due to gravity.
2. Application: suitable for lifting the silicon ingot.
3. Can be designed according to customer's requirements.



碳块夹具 Carbon block clamp

1. 原理：采用自动杠杆式工作原理，其结构简单合理，动作灵活，起运安全可靠，不需任何力源自重锁紧，开闭器定位，自动实现钳口的开闭动作。
2. 作用：实现碳块的吊运。
3. 可根据客户的要求进行特殊设计。

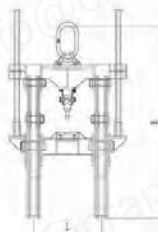
1. Principle: adopt automatic lever principle of work, the simple and reasonable structure, flexible motion, definition of safe and reliable, without any power can be locked, shutter positioning, automatic opening and closing action.
2. application: realize to lifting carbon block.
3. Can be designed according to customer's requirements.



圆钢夹钳 Round steel spreader

圆钢夹钳采用优质钢材制造而成，其强度高，自重轻，吊运方便灵活，无需外力辅助就可实现圆钢的吊运，且吊运安全可靠，吊具有重量起闭器。

Round steel spreader manufactured using high quality steel and its high strength, light weight, convenient and flexible for lifting, without external force auxiliary round steel can be realized the lifting and hoisting the safe and reliable.



竖变型
vertical change into horizontal type



多组型
Multiple sets type



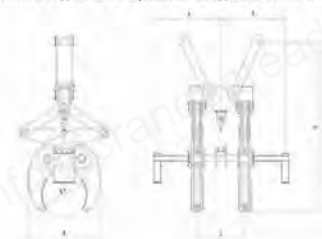
钢管夹具
Steel pipe clamp

产品编码 Product Code	额定载荷 Rated Load (t)	可吊圆钢直径 Round steel diameter (mm)	中心宽度 Center width (mm) L	整体高度 The overall height (mm) H
AFY-2	2	φ 160~φ 300	2000	1560
AFY-3	3	φ 200~φ 350	2000	2100
AFY-5	5	φ 250~φ 420	2000	2460
AFY-10	10	φ 320~φ 450	2500	2590
AFY-15	15	φ 380~φ 550	3000	2680
AFY-20	20	φ 450~φ 700	3000	3050

单轧辊吊具 Single-roll spreader

用于自动启闭控制钳口开闭，支撑机构支撑在轧辊的轴承座上，钳体与钳身接触部位加装铜板可以有效保护轧辊不受伤害，支撑机构可以调节，可以适用不同直径的轧辊。

The use of automatic control gate opening and closing gag, and support agencies in support of the roller bearing seat, and the clamp-contact roller body parts of the installation of copper can effectively protect roll avoid damage. Institutional support can be adjusted, can be applied to roll with different diameter.



产品编码 Product Code	额定载荷 Rated load (t)	轧辊直径 φ W Roll diameter (mm)	最大外形尺寸 The largest dimension (mm)		跨度 L Span (mm)	距离 A Distance (mm)	距离 B Distance (mm)
			W	H			
DZG-16	16	φ 645 φ 820	1800	3300	600	1300	1300
DZG-20	20	φ 630 φ 850	1650	3600	1000	1750	1750
DZG-25	25	φ 630 φ 800	1600	3650	1000	1510	1510
DZG-32	32	φ 860 φ 1070	2300	4000	600	1040	1040
DZG-63	63	φ 1100 φ 1350	2950	5200	1000	1400	1400

双轧辊吊具 Double roller hoisting mechanisms

用于自动启闭控制钳口开闭，支撑机构支撑在轧辊的轴承座上，钳体与钳身接触部位加装铜板可以有效保护轧辊不受伤害，支撑机构可以调节，可以适用不同直径的轧辊，仅适用于带轴承吊装。

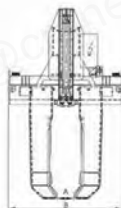
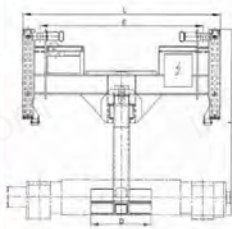
The use of automatic control gate opening and closing gag, and support agencies in support of the roller bearing seat, and the clamp-contact roller body parts of the installation of copper can effectively protect roll avoid damage. Institutional support can be adjusted, can be applied to roll with different diameter, only use lifting with bearing.



产品编码 Product Code	额定载荷 Rated load (t)	轧辊直径 φ Roll diameter (mm)	最大外形尺寸 The largest dimension (mm)		跨度 L Span (mm)	距离 A Distance (mm)	距离 B Distance (mm)
			W	H			
SZG-10	10	φ 410 φ 500	1200	2900	600	835	855
SZG-20	20	φ 500 φ 550	1500	3000	800	1100	1100
SZG-25	25	φ 645 φ 730	1500	3800	800	1430	1100
SZG-32	32	φ 645 φ 820	3100	4300	800	1450	1120
SZG-40	40	φ 605 φ 805	1900	4750	950	1458	1143
SZG-50	50	φ 580 φ 825	1850	5000	950	1655	1335
SZG-63	63	φ 540 φ 950	2100	5600	1000	1300	1600

电动液压工作辊吊具 Electric hydraulic work roller hoisting mechanisms

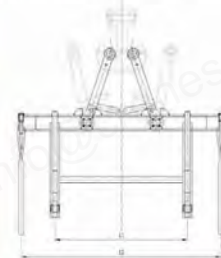
1. 由吊钩、梁体、钳腿、油缸、液压控制系统、电气及电气控制系统、电缆卷筒等部分组成。
 2. 不损伤轧辊表面，带轴承座的单轧辊及双轧辊均可起吊，夹取准确，效率高，安全可靠，技术先进，维修方便。
 3. 油缸、液压泵及阀体均选用知名产品。
 4. 可根据用户要求进行特殊设计。
1. Hanging from the shaft, beam, clamp, the fuel tank, hydraulic motors, hydraulic control system, electric and electric control systems, cable reel, and other parts.
 2. Non-injury roll on the surface, bearing with a single roll may be lifting, and folder access accurate and reliable, advanced technology, easy maintenance.
 3. The fuel tank, pump selection of well-known international Brand.
 4. Can carry on the special design according to the user's requests.



额定载荷 Rated Load (t)	轧辊规格 Roll specifications (mm)	吊具开度 A Opening (mm)	最大外形尺寸 The largest dimension(mm)			钳腿宽度 D Width (mm)	吊耳间距 E Lug spacing (kg)
			L	B	H		
50	φ 630-φ 850	330-1120	4300	2400	3700	1300	3500

支撑辊吊具 Bracing roller hoisting mechanisms

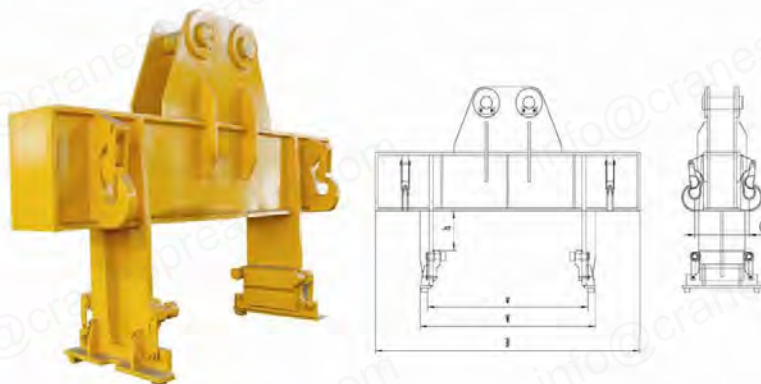
- 主要用途：用于轧钢厂支撑辊换辊时使用。
- 结构特点：结构简单，操作方便，安全可靠，可根据用户要求特殊设计。
- Main application: used for rolling mills, bracing roller change roll.
- Structure features: simple structure, convenient operation, safe and reliable. Special design according to user requirements.



产品编码 Product Code	额定载荷 Rated Load (t)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	自重 Self Weight (kg)
DZG200C	200	2460	5420	2030	2682	28000
DZG350C	350	6200	8600	2240	3190	40000

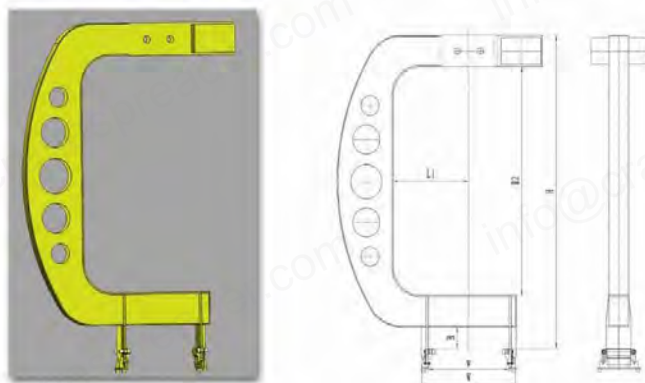
立辊吊具 Vertical roll spreader

主要应用于立辊轧机的吊运。Mainly used in lifting vertical roller machine.



立辊更换吊具 Vertical roll change spreader

应用于立辊轧机。立辊的安装与拆卸等吊装作业中使用的吊具。
Applied to the vertical roll rolling mill, the installation of the vertical roll and remove the sling used in hoisting operation



横梁吊具 Beam spreader

横梁吊具是起重机与被吊物的连接设备。The beam spreader is connected devices of Crane and suspended matter.



普通横梁
Common beam



板式横梁
Plate beam



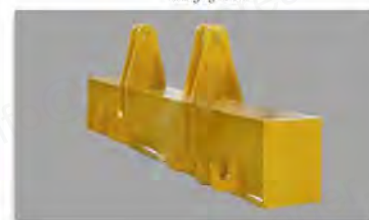
山型钩吊梁
Mountain type hook beam



吊梁
Hanging beam



耳轴式吊梁
Trunnion crane beam



吊梁
Hanging beam



机车吊梁
Locomotive hanging beam



港口用吊梁
Port hanging beam

横梁吊具 Beam spreader



可调节式横梁
Adjustable beam



可调节式工字梁
Adjustable H beam



电动旋转横梁
Electric rotating beam

机车吊具 Locomotive spreader

用于机车的起重吊装。奥发吊索具公司产品以应用于多种型号的机车。其产品种类多。

Used in locomotive lifting, the products for use in a variety of models of locomotive, Product has much variety.



支撑梁
Support beams



支撑梁
Support beams



机车横梁
Locomotive beam



机车横梁应用
Locomotive beam application



机车横梁应用
Locomotive beam application



机车横梁应用
Locomotive beam application



机车横梁应用
Locomotive beam application



机车横梁应用
Locomotive beam application



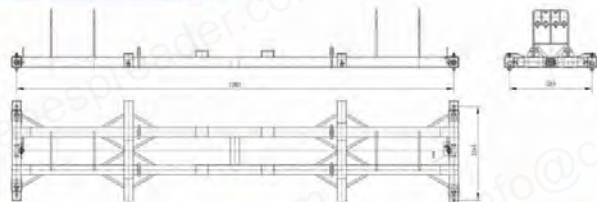
机车横梁应用
Locomotive beam application



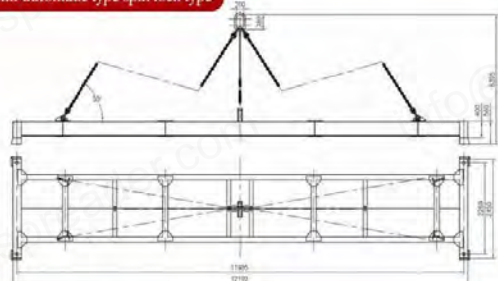
机车横梁应用
Locomotive beam application

集装箱吊具 Container spreader

手动旋锁型 Manual twist locks type



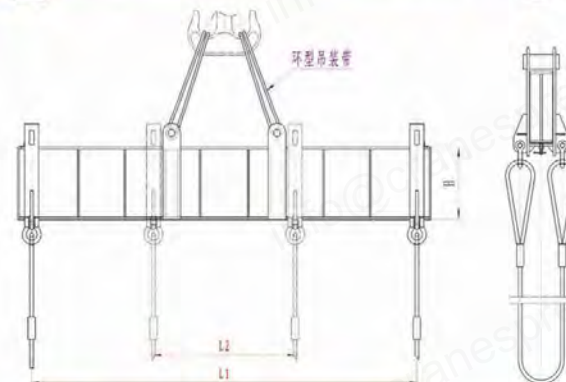
半自动旋锁型 Semi-automatic type spin lock type



转子吊具 Rotor lifting beam

转子吊具是汽轮机转子专用吊具，经过多年的生产经验形成了比较成熟的产品系列。

Rotor lifting beam is special sling for Steam turbine rotor, After many years of production experience formed more mature products series.

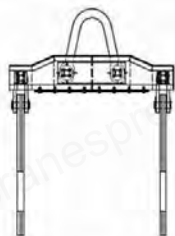


产品编码 Product Code	额定载荷 Rated load (t)	L1 (mm)	L2 (mm)	H (mm)	自重 Self Weight (kg)
AF-Z40	40	6100	5750	700	2300
AF-Z70	70	6500	6150	902	3500
AF-Z80	80	6500	6150	902	3850
AF-Z90	90	8000	7525	800	5600

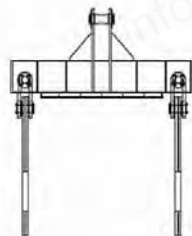
钢包吊具 Ladle spreader

1. 用途: 适用于钢包、铁水罐、料槽的吊运。
2. 特点: 结构简单, 操作方便, 安全可靠, 钩体可前后左右自由摆动易于挂钩。
3. 制作材料: 采用优质的低合金钢制造, 强度高、耐高温。钩体由钢板拼接铆制而成, 有较高的强度和柔韧性。
4. 可根据用户要求进行特殊设计。
5. 根据结构的不同可分为以下几种类型。

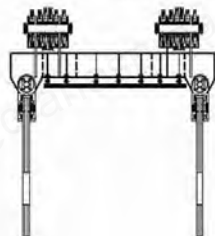
1. it used for lifting and moving of the steel ladle, iron can
2. Features: simple structure, convenient operation, safe and reliable, hook can freely swing around easily.
3. Material: made by high quality low carbon alloy steel, high strength, high temperature resistance. Hook by steel plate joining together as riveting, have higher strength and flexibility.
4. Can be designed according to user requirements.
5. According to the different can be divided into the following several types of structure.



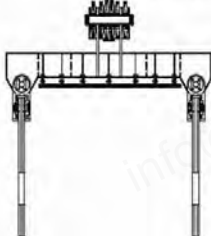
A type gantry hook spreader



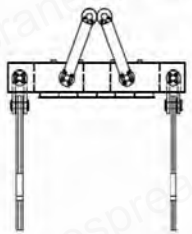
B type gantry hook spreader



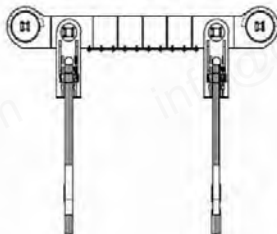
C type gantry hook spreader



D type gantry hook spreader



E type gantry hook spreader



F type gantry hook spreader



钢包吊具 Ladle spreader



吊攀型
Hanging climbing type



双滑车组型
Double block combination type



双滑车组型
Double block combination type



双滑车组型
Double block combination type



280吨钢包吊具分体出厂
280T Ladle spreader separate shipping

钢包吊具应用 Ladle spreader examples



翻包吊具 Steel ladle flip spreader

1. 作用：专门用于钢厂内钢水包的翻转。
2. 制作工艺：钢板拼接铆制而成，有较高的强度和柔韧性。
3. 可根据用户要求进行特殊设计。
4. 根据连接方式的不同可分为以下几种类型：

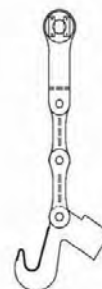
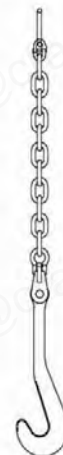
1. application: specially used for flipping steel ladle.
2. Manufacturing process: steel plate joining together as riveting, have higher strength and flexibility.
3. Can be designed according to user's requirements.
4. According to the different way of connection can be divided into the following several types:



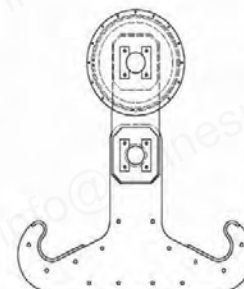
A 型钢包钩
A type steel ladle hook



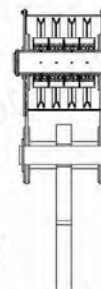
B 型钢包钩
B type steel ladle hook



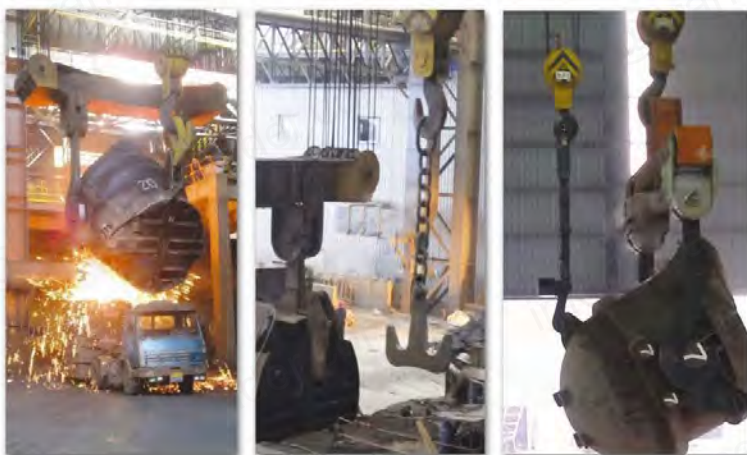
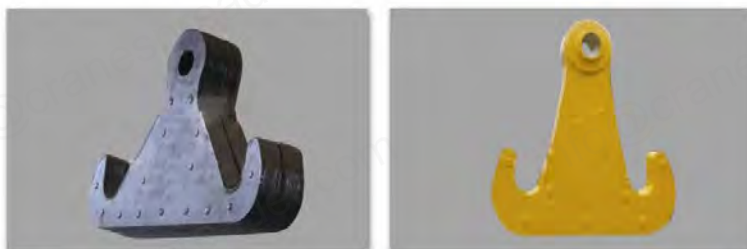
C 型钢包钩
C type steel ladle hook



D 型钢包钩
D type steel ladle hook



翻包吊具 Steel ladle flip spreader



应用实例
Examples of application

钢包清渣钩 Slag removal hook

A型 铸造型清渣钩 Type A casting slag removal hook



B型 焊接型清渣钩 Type B welding slag removal hook



渣盘夹具 Slag disc spreader

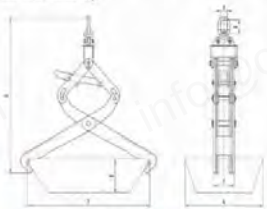
1. 用途：用于钢厂对渣盘的吊运
2. 分类：根据对渣盘吊运方式的不同可分为两种

1. Application: Used for lifting the slag disc for steel factory

2. According to the different methods of slag disc lifting can be divided into two kinds.

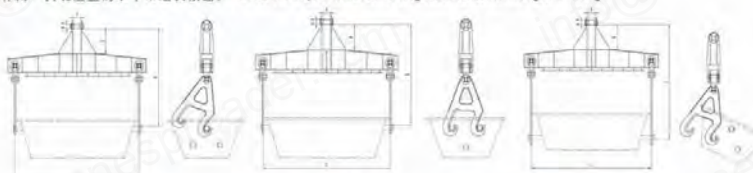
A: 夹钳式渣盘吊具 A Clamp type slag disc spreader

原理：采用机械杠杆原理，夹托渣盘，吊运安。 Principle: adopt mechanical lever principle, Clip slag disc, safe and reliable lifting, can open and close automatically.



B: 梁式渣盘吊具 B beam type slag disc spreader

作用：实现渣盘的水平吊运及倾翻。 Function: Implementation of slag disc horizontal lifting and tilting.



单轴吊运
Single shaft lifting

两轴吊运
Biaxial lifting

翻转渣盘
Flip slag disc



中间罐吊具 Middle cans spreader

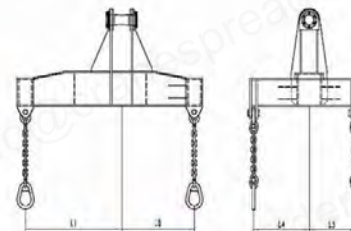
1. 作用：用于中间罐的吊运。
2. 特点：耐高温、强度高等特点。
3. 根据连接方式分为：链条式和板钩式。

1. application: it used for lifting and moving of middle cans

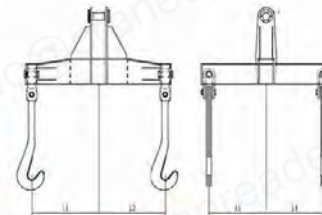
2. Characteristics: high temperature resistant, high strength, etc.

3. According to the mode of connection can be divided into: chain and plate hook type.

A 型下端链条式 A type (chain)



B 型下端板钩式 B type (plate hook)



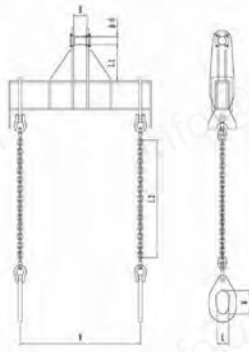
中间罐主梁分体出厂
Middle cans main beam separate shipping

中间罐的应用
Middle cans application

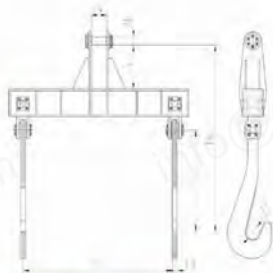
料槽吊具 Scrap metal container spreader

1. 作用：用于料槽的吊运。
 2. 特点：耐高温，强度高等特点。
 3. 根据连接方式分为：链条式和板钩式。
1. application: used for lifting of the scrap metal container.
 2. Characteristics: high temperature resistant, high strength, etc.
 3. According to the mode of connection can be divided into: chain and plate hook type.

A 型链条式 A-chain type

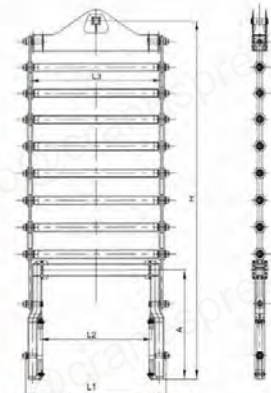


B 型板钩式 B-plate hook type



扇形段吊具 Fan-shaped section spreader

用途：用于扇形段的更换与安装。 It used for replacing and installation of Fan-shaped section.



额定载荷 Rated Load (t)	L1 (mm)	L2 (mm)	L3 (mm)	A (mm)	B (mm)	C (mm)	D (mm)	H (mm)	自重 Self Weight (kg)
70	5800	4600	5448	4200	1240	1030	1900	13750	37000
105	7940	6110	7630	4150	660	660	660	11700	47000

卧卷吊具 Horizontal rolling clamp

横梁双钩 Double hooks with beam

用途: 卧卷吊运。

特点: 制作简单, 作业空间小, 但操作繁琐。必须保证吊车司机视野好, 否则需地面人员配合作业。操作时要确保钳钩到底。对不同宽度的钢卷, 需要调节位置。

Application: horizontal volume lifting.

Characteristics: simple, work space is little, but the operation trival, nice view must be ensured for the crane driver, otherwise need to ground personnel assignment, operations to ensure that hooks to the end. For different width of the coil, need to adjust the position.



产品编码 Product Code	最大钢卷重量 The biggest steel coil weight (t)	钢卷宽度范围 A The steel coil width (mm)	φC (mm)	B (mm)	自重 Self Weight (kg)
AF-H25	25	600-1600	550	800	595
AF-H30	30	800-1800	550	900	773

机械卧卷 Mechanical horizontal rolling clamp

用途: 用于吊运冷轧, 热轧卧卷或卸车作业。

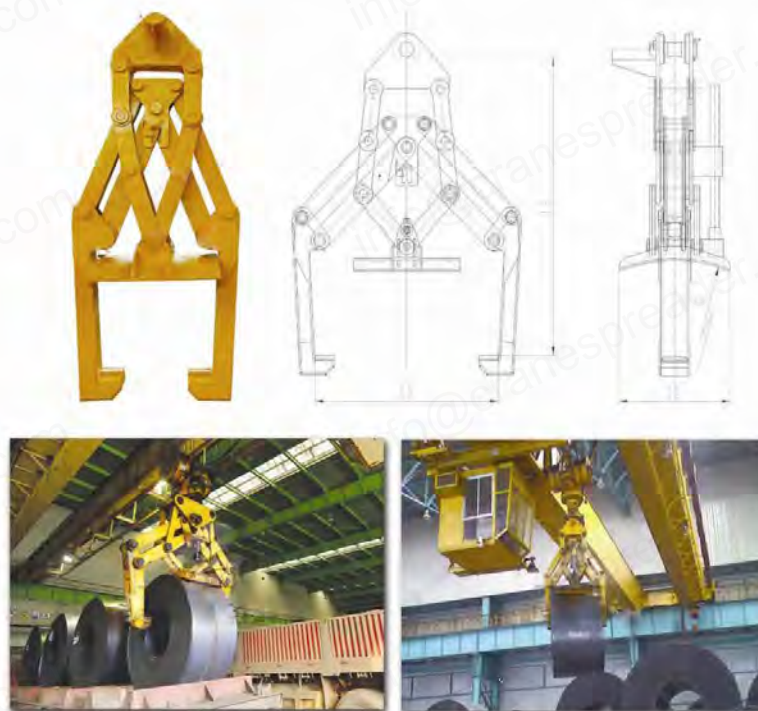
特点:

1. 作业效率高。
2. 操作方便, 仅需升降吊钩即可实现作业。
3. 不用电源, 适合高低温各种环境, 性能可靠, 维护方便。
4. 作业时, 每次都需开到最大开口度, 所以需要的大空间。

Application: used for lifting cold-rolled, hot-rolled lie or unloading operations.

Features:

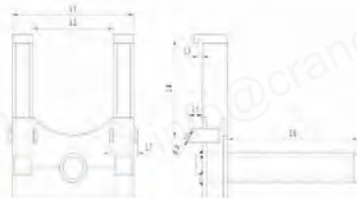
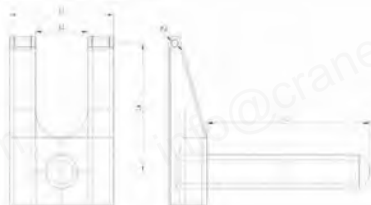
1. High work efficiency.
2. Easy to operate, just lift hook operation can be realized.
3. There is no power supply, suitable for high and low temperature various environment, reliable performance and convenient maintenance.
4. the opening must up to the biggest when u operation, so need the large space.



产品编码 Product Code	额定载荷 Rated load (t)	钢卷宽度 L1 Steel coil width (mm)	钢卷内径 Coil diameter (mm)	L2 (mm)	L3 (mm)	R (mm)
AF-WJ25D	25	900-1600	≥ 500	800	2500	1000
AF-WJ30D	30	1200-2000	≥ 600	920	2700	1200

叉车挑杆 Forklift rod

1. 叉车挑杆是叉车前端配用的起重装置。2. 挑杆适用于叉车起重卷装类重物。
1, It is Forklift Front with forklift lifting device. 2, Suitable for forklift truck lifting roll type products.



叉杆出厂
Forklift rod shipping



叉杆出厂
Forklift rod shipping



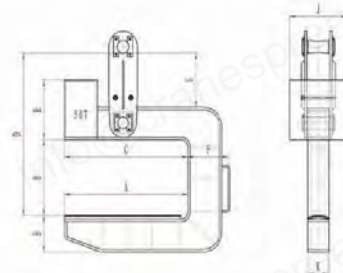
叉杆应用
Application



叉杆应用
Application

C型卷板吊具 C type coil clamp

主要用途：钢卷的水平吊运。 载荷的范围：0—50吨 采用低碳优质合金钢制造。 特殊异型可以根据要求设计。
Main application: steel volume horizontal lifting. The load range: 0-50 tons High quality alloy steel with low carbon. Special shaped can be designed according to the requirements.



产品编码 Product Code	额定载荷 Rated load (t)	重量 weight (t)	钢卷宽度 Steel coil width (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	K (mm)
AFC3	3	80	≤ 300	300	110	395	690	210	195	155	430	212	250
AFC3	3	130	300-500	500	145	500	735	230	225	155	450	275	250
AFC5	5	350	750-900	900	208	900	897	322	325	200	500	324	150
AFC5	5	420	900-1100	1100	252	1050	1040	300	350	200	600	318	160
AFC5	5	530	1100-1300	1300	254	1200	1038	302	370	200	600	375	170
AFC10	10	570	750-900	900	276	900	1209	416	390	300	650	435	190
AFC10	10	790	900-1120	1120	288	1120	1409	396	435	300	850	477	200
AFC10	10	795	1120-1300	1300	311	1200	1341	340	455	300	750	478	200
AFC10	10	1120	1300-1500	1500	328	1400	1456	450	455	300	850	467	200
AFC15	15	1140	900-1100	1100	312	1100	1457	500	440	310	850	594	240
AFC15	15	1250	1100-1250	1250	334	1250	1457	470	460	310	850	533	250
AFC22	22	1500	900-1100	1100	343	1100	1539	569	470	370	860	633	270
AFC22	22	1880	1100-1300	1300	380	1300	1578	550	510	370	860	716	280

C 型卷板吊具 C type coil clamp



A 型 包钢板式
A type cover steel plate



B 型 耳轴式
B type trunnion



C 型 工字型结构
C type I-shaped



D 型 滑轮组式
D type pulley set



E 型 弹簧套筒型
E type spring sleeve type



F 型 弹簧套筒型
F type spring sleeve type

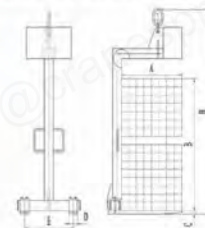
C 型梁式吊具 C type beam clamp



行车货叉（配重型） Pallet fork (heavy)

行车货叉配重型空载时货叉为水平状态，吊装时货叉上翘 2-3 度角，优点为无需进行空载状态与吊装状态吊点调节。

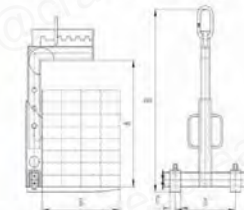
Driving goods fork with heavy goods fork for level during no-load condition, lifting goods fork upward 2-3 degrees, advantages as without which can adjust the light condition and state of lifting lifting point.



行车货叉 Pallet fork

无配重型由于没有配重自重相对较轻，但吊具空载状态与起重吊装时需要调节吊点位置。

No match relatively light weight is heavy because there is no balance, but spreader light condition and adjust the need when lifting lifting point location.



单腿线材吊具 Single leg wire sling

1. 作用：适用于单钢卷、盘条的水平吊运。 Application: suitable for single steel roll, Wire rod horizontal lifting.



双腿线材吊具 Double Legs wire sling

1. 作用：适用于双钢卷、盘条的水平吊运。

Application: suitable for double steel roll, wire rod horizontal lifting.



电动卧卷吊具（三丝杠传动） Electric horizontal rolling clamp (three slices pole drive)

该夹钳有吊耳、钳腿、钳腿驱动系统、电气及电气控制系统、电缆卷筒等部分组成。
该夹钳特点是结构紧凑、重量轻、载重量大、夹取准确、效率高、安全可靠、技术先进、适应性强、维修方便。
该夹钳广泛应用于钢厂的卧卷搬运、仓库堆垛、汽车和火车的装卸场合。
可根据用户要求特殊设计。

By the hanging ears clamp legs, legs clamp drive system, electrical and electric control systems, cable reel, and other parts.
The structure is compact, the weight is light, clamps takes accurately, the efficiency is high, serviceable, the technological advance, the service is convenient.
Widely used for steel volume handling warehouse stacking, loading and unloading for cars and trains.
Can carry on the special design according to the users' requests.

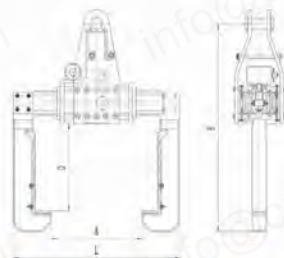


产品编码 Product Code	额定载荷 Rated load (t)	钢卷参数 Steel coil parameters (mm)	吊耳开口度 A Opening (mm)	最大外形尺寸 The largest dimension (mm)			限位方式 Limit way	备注 Note
				B	D	C		
DWS-10	10	内径 ϕ 508 The inner diameter 外径 ϕ 2150 Outer diameter	300-2000	1000	2900	2750	行程开关限位 Travel limit switch 光电开关限位 Photoelectric switch limit	最高温度 600℃ The highest temperature 最高温度 60℃ The highest temperature
DWS-20	20	内径 ϕ 508 The inner diameter 外径 ϕ 2150 Outer diameter	300-2000	1000	2900	2750	行程开关限位 Travel limit switch 光电开关限位 Photoelectric switch limit	最高温度 600℃ The highest temperature 最高温度 60℃ The highest temperature
DWS-30	30	内径 ϕ 508 The inner diameter 外径 ϕ 2150 Outer diameter	300-2000	1000	2900	2750	行程开关限位 Travel limit switch 光电开关限位 Photoelectric switch limit	最高温度 600℃ The highest temperature 最高温度 60℃ The highest temperature
DWS-40	40	内径 ϕ 508 The inner diameter 外径 ϕ 2150 Outer diameter	300-2000	1000	2900	2750	行程开关限位 Travel limit switch 光电开关限位 Photoelectric switch limit	最高温度 600℃ The highest temperature 最高温度 60℃ The highest temperature

电动卧卷吊具 (齿轮齿条传动) Electric horizontal rolling clamp (gear rack drive)

由旋转吊耳、钳腿、钳腿驱动系统、电气及电气控制系统、电缆卷筒等部分组成。结构紧凑、重量轻、夹取准确、效率高、安全可靠、适用性强、技术先进、维修方便。可在0-270℃范围内任意旋转。
广泛应用于钢厂卧卷下线及搬运、仓库码头堆垛、汽车、火车搬运等场合。
可根据用户要求进行特殊设计。

By the hanging ears clamp legs, legs clamp drive system, electrical and electric control systems, cable reel, and other parts. The structure is compact, the weight is light, clamps takes accurately, the efficiency is high, serviceable, the technological advance, the service is convenient. May revolve willfully in 0-270 °C degrees scopes. Widely used for steel volume handling warehouse stacking, loading and unloading for cars and trains.
Can carry on the special design according to the user's request.

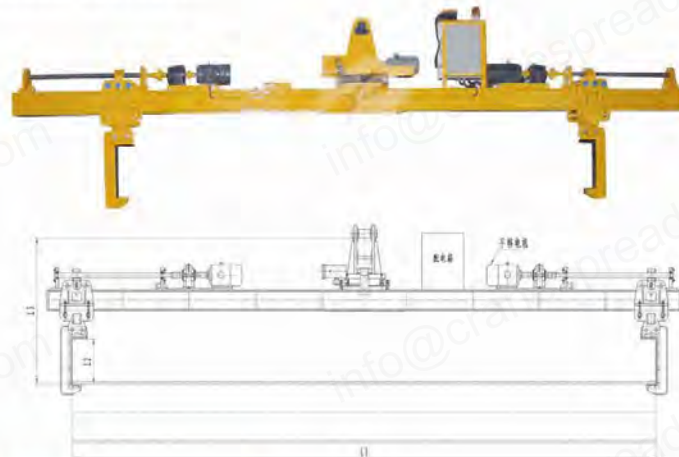


产品编码 Product Code	额定载荷 Rated load (t)	钢卷参数 Steel coil parameters (mm)	吊具开口度 A Opening (mm)	最大外形尺寸 The largest dimension(mm)			限位方式 Limit way	备注 Note
				D	L	H		
DWL-10	10	内径φ 508 The inner diameter 外径φ 2150 Outer diameter	300-2000	1000	2900	2800	行程开关限位 Travel limit switch 光电开关限位 Photoelectric switch limit	最高温度 600℃ The highest temperature 最高温度 60℃ The highest temperature
DWL-20	20	内径φ 508 The inner diameter 外径φ 2150 Outer diameter	300-2000	1000	2900	2800	行程开关限位 Travel limit switch 光电开关限位 Photoelectric switch limit	最高温度 600℃ The highest temperature 最高温度 60℃ The highest temperature
DWL-30	30	内径φ 508 The inner diameter 外径φ 2150 Outer diameter	300-2000	1000	2900	2800	行程开关限位 Travel limit switch 光电开关限位 Photoelectric switch limit	最高温度 600℃ The highest temperature 最高温度 60℃ The highest temperature
DWL-40	40	内径φ 508 The inner diameter 外径φ 2150 Outer diameter	300-2000	1000	2900	2800	行程开关限位 Travel limit switch 光电开关限位 Photoelectric switch limit	最高温度 600℃ The highest temperature 最高温度 60℃ The highest temperature

电动旋转钢管吊具 Electric rotary steel pipe clamp

说明：本钢管吊具可对较长的钢管进行吊装，适用钢管长度范围大，可对钢管进行90°度旋转，其结构紧凑，吊装高度小，适合吊装高度受限：仓库钢管多层码垛、装卸车等吊装作业。

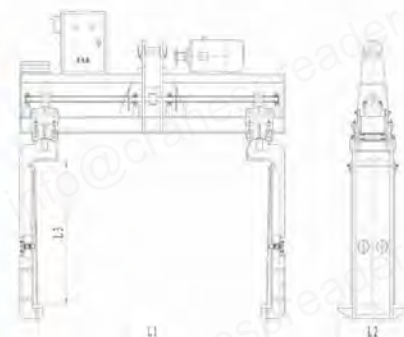
Description: this clamp is suit for lifting long steel pipe, can be used to rotate 90 degrees for steel pipe and its structure is compact, lifting height is small, suitable for lifting highly constrained, and warehouse steel multi-layer stacking, loading and unloading car lifting operation, etc.



电动沙箱吊具 Electric sandbox sling

说明：本吊具适用于对箱类被吊物进行起吊，吊具两腿间设计有限位开关，不会造成夹紧力过大对被吊物体产生损坏。

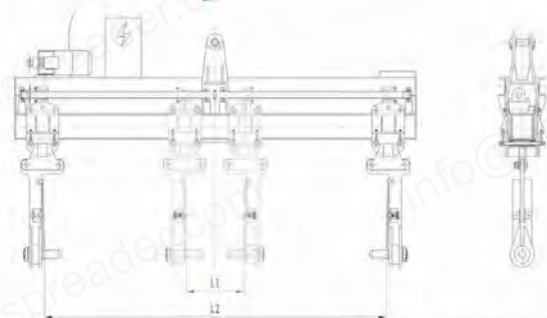
Description: this sling is suitable for lifting on box type of suspended matter. Sling design limited position switch between the two legs, not cause excessive clamping force have damage on the suspended objects.



电动薄膜或纸卷吊具 Electric Thin film or Paper roll sling

说明：本吊具适用于对卷状被吊物进行吊装，如卷状塑料薄膜、纸卷等物体。

Description: this sling is suitable for the roll of suspended matter in hoisting, such as plastic film roll, paper roll and so on.



现场安装调试
On-site installation and debugging



现场安装调试
On-site installation and debugging

A型 简易式立卷吊具 A type simple vertical rolling clamp

1. 吊具主要应用于竖卷的吊装。

2. 吊具的索具连接型式可以选用，吊带带，无接头绳圈，压制钢丝绳。（本图为吊带带式连接）。

3. 吊具吊装过程中必须有人配合吊装。

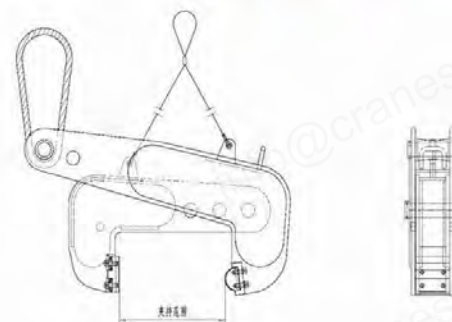
4. 吊装状态下侧卷存在倾斜。

1. It is used for lifting vertical rolling plate.

2. This clamp can be chosen connection type, and suppression of wire rope, lifting belt, endless wire rope sign type.(this picture for lifting belt type)

3. In the lifting process must have a personnel Cooperate.

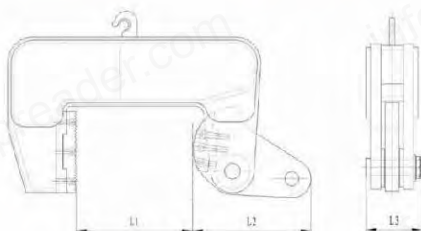
4. Vertical rolling has tilt during the lifting process.



类别 Type	产品编码 Product Code	额定载荷 Rated load (t)	夹运范围 Clip range (mm)	自重 Self Weight (kg)
吊带带	AFJ-5T	5	100-300	0.38
	AFJ-10T	10	150-450	0.48
	AFJ-15T	15	250-550	0.61
	AFJ-20T	20	350-700	0.98
	AFJ-35T	35	500-750	1.1

B 型 竖卷翻转吊具 B type vertical coil flip clamp

1. 吊具主要应用于卷板翻转使用，竖卷变卧卷。
2. 吊具需要人员操作使用吊具。



吊装状态
Lifting status



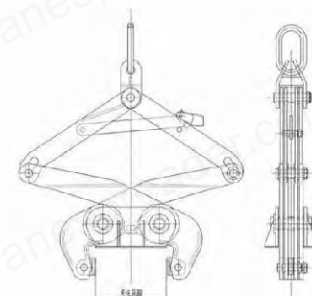
翻转卷板
Flip coil plate



吊装图
Hosting figure

C 型 支撑杆式立卷吊具 c type Support bar type vertical coil clamp

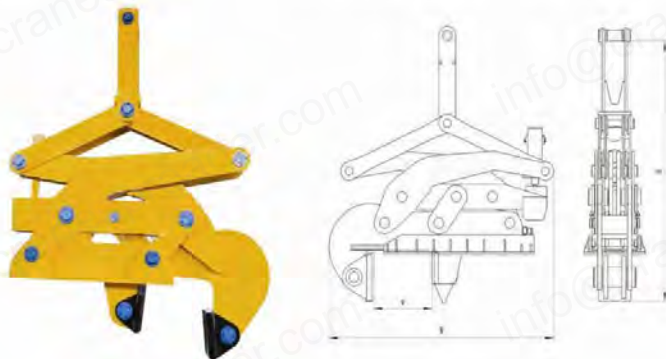
1. 用于竖卷的吊运，装卸车作业。
2. 吊具轻便、小巧、灵活，吊具有起闭机构，无需人员辅助配合起闭。
3. 吊运状态下钢卷存在倾斜。



类别 Type	产品编码 Product Code	额定载荷 Rated load (t)	夹运范围 Clip range (mm)	自重 Self Weight (kg)
	APG-8T	8	250-600	1.28
	APG-15T	15	235-450	1.2
支撑杆式 Support bar type	APG-20T	20	400-750	1.7
	APG-25T	25	400-650	1.7
	APG-30T	30	400-750	2

E 型 单边夹立卷吊具 E type single-side vertical wrapped plate clamp

1. 用于竖卷的吊运, 采用自动杠杆式工作原理, 动作灵活起运安全可靠。
 2. 吊具无需人员辅助, 可自动实现吊具的开闭动作。
 3. 吊装状态下钢卷存在略微倾斜。
1. Apply to vertical roll lifting, use automatic lever principle of work, flexible motion.
 2. The clamp without human assistance, can open and close automatically.
 3. Vertical rolling has tilt during the lifting process.



产品编码 Product Code	额定载荷 Rated load (t)	钢卷内径 Coil diameter (mm)	适用范围W Scope of application (mm)	最大外形尺寸The largest dimension(mm)		自重 Self Weight (kg)
				W	H	
DSJJ-4	4	φ 500	200~550	2400	3800	2500
DSJJ-8	8	φ 630	330~485	2400	3400	2600
DSJJ-12.5	12.5	φ 762	250~570	2500	4000	2800
DSJJ-32	32	φ 740	385~555	2800	4000	6300

D 型 立卷吊具配重型 D type vertical lifting rolling plate clamp with heavy

用途

用于热轧卷和退火后的冷轧成品卷的吊运。装卸车作业。

特点

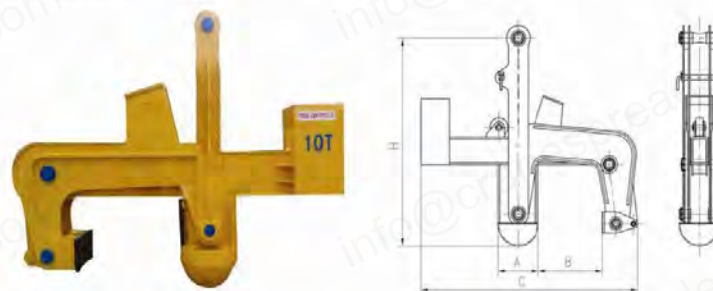
1. 作业效率高。
2. 夹钳夹起竖卷后, 倾斜角控制在 3—5° 以内。
3. 由于夹钳的体积, 使用该钳装卸火车时, 可以放到车箱的车箱边。
4. 穿入内轧的钳口带带牙, 吊钢卷后, 外圈无压痕, 内轧会有轻微的压痕。

Application:

For hot-rolled coil and after annealing cold-rolled products roll lifting, loading and unloading car action.

Features:

1. high working efficiency.
2. when the vertical roll lifted, Angle control within 3-5°.
3. due to the volume of the clamp, use the tongs when loading and unloading of the train, can be at the trunk side.
4. after hanging steel coil, Cylindrical without indentation, but there will be a slight indentation in the rolling.



产品编码 Product Code	额定载荷 Rated load (t)	适用钢卷厚度 The thickness of the steel coil (mm)	吊钩空载尺寸 Crabs no-load size(mm)			
			A	B	C	H
DSJ25D	25	450~600	450	680	2400	3250
DSJ30D	30	500~650	600	750	2600	3430
DSJ35D	35	550~700	650	800	2700	3669

F型机械双臂竖卷吊具 F type mechanical arms vertical roll clamp

用途

吊冷轧立卷。主要用于冷轧立卷装卸罩式退火炉作业。

特点

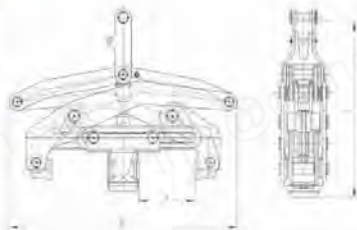
1. 吊立卷时夹钳的两对内外钳腿分别运动。作业时分别夹直径方向的两个壁厚。
2. 吊起竖卷后，竖卷的底面绝对水平。
3. 作业时，夹钳与钢卷无相对滑动。作业时不伤钢卷。
4. 夹钳的钳口对钢卷的夹紧力比一个钳口夹钳小一倍。接触应力小，夹钳对钢卷的应力伤害小。

Application:

lifting archives Cold rolled, it is mainly used for cold-rolled archives loading and unloading bell type annealing furnace.

Features:

1. hanging clamp when archives of two pairs of pliers leg movement respectively, both inside and outside respectively clamp diameter when working direction of the two wall thickness.
2. after lifting Vertical roll, the roll bottom absolute horizontal.
3. when working, clamp and steel coil without the relative sliding, does not hurt when working coil.
4. clamp jaw clamping force on the roll of steel is smaller than a mouth pliers clamp, the contact stress is small, clamp for less damage on the stress of the steel coil.



产品编码 Product Code	额定载荷 Rated load (t)	钢卷内径 Coil diameter (mm)	适用范围W Scope of application (mm)	最大外形尺寸The largest dimension(mm)	
				W	H
DSJS-20	20	φ 600	200-725	3650	5550
DSJS-32	32	φ 610-φ 720	120-720	3600	6200
DSJS-32	32	φ 762	550-770	3400	4500
DSJS-40	40	φ 762	420-720	3600	4500

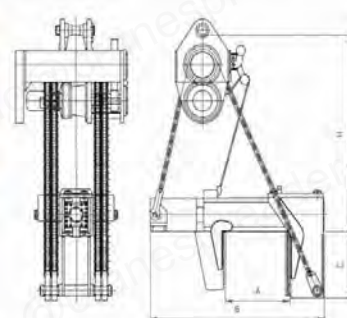
电动竖卧卷翻转夹具 Electric vertical and horizontal coil flip clamp

产品特点

1. 用途：电动竖卧卷翻转夹具。适用于吊起竖卷后，夹钳在空中翻转90°，转化为卧卷放在地面上。或者吊起卧卷在空中翻转90°，转化为竖卷放在地面上。主要的应用场合有钢铁企业将卧卷翻转成竖卷装车（火车和汽车），钢材的中转或使用单位将竖卷翻转成为卧卷；冷轧厂将卧卷转换成竖卷装卸退火炉的作业等。
2. 优点：起吊、翻转、装卸车（罩式炉）一次完成。节约了设备投资（少用一部吊车，一台翻卷机，一个竖卷夹钳，一个卧卷夹钳），节省两名工人；提高3倍效率。电动翻转夹钳，本身占用空间小，高度适中，合理的装卸作业中不伤害卷板，适用于装卸火车和各种不同的作业环境。
3. 特征：电动翻转夹钳分翻转和夹钳两部分。把夹钳部分的中心钳腿插入到卷板的中心孔中，启动夹钳电机，给卷板一个初始夹紧力，吊起卷板后靠夹钳的楔面夹紧卷板；启动翻动机通过链条带动夹钳和卷板翻转，到另一个工位自动停止。夹钳翻转时间约为30-50秒，可在吊车运行同进行。

Product features:

1. use: electric vertical lie volume reverse fixture, apply to lift after vertical roll, clamp in over 90°, converted to lie roll on the ground. Lie down or lift turn 90° in the air, into vertical roll on the ground. Main applications are iron and steel enterprises will lie in vertical roll loading (the train and bus). Steel transfer or the use of units will be turned vertical roll become lie volume. Will lie abrasion volume into vertical loading and unloading of the annealing furnace, etc.
2. advantages: lifting, flip, loading and unloading car (bell type furnace) one time. Saves investment in equipment (with a crane, a folding machine, a vertical clamp, a lie roll clamp). Save the two workers. Improve the efficiency of three times. Electric flip clamp, itself takes up the space is little, medium height, do not harm in reasonable handling rolled plate, suitable for loading and unloading of the train and a variety of different work environment.
3. features: electric flip clamp points and the clamp insert the leg of the center of the clamp part pliers rolled plate in the center hole, start the clamping motor, to board an initial clamping force, lift by wedge clamp after rolled plate surface clamping plate. Start turning motor through the chain drive the clamp and the plate bending, to another location automatically stop. Clamp turnover time is approximately 30-50 seconds, can be in crane operation with into.



产品编码 Product Code	钢卷重量 (t)	钢卷内径 Coil diameter (mm)	钢卷外径 Coil diameter (mm)	钢卷宽度 Steel coil width (mm)	A (mm)	B (mm)	C (mm)	H (mm)
AF-G20	20	φ 610	φ 1200-φ 1900	800-1350	800	2250	800	2250
AF-G30	30	φ 762	φ 1200-φ 2000	800-1600	850	2300	800	2280

翻转吊具 Flip spreader

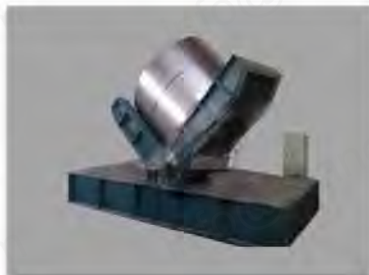
用于翻转被吊物可进行360度旋转。 used to flip suspended objects rotate 360 degrees.



液压翻转平台 A 型 A type hydraulic flipping platform

产品特点: 1 液压翻转平台无需固定, 不用挖坑打基础可任意摆放, 占地面积小。
2. 翻卷重量可根据用户要求设计翻吨吨位及速度。
3. 现本产品应用于很多钢铁企业, 均得到了很好的评价。

Features: 1 hydraulic flip platform without fixed, don't have to dig a hole, Can be arbitrarily placed, cover small area.
2. According to user's requirements designed to flip tonnage and speed.
3. This product is now used in a lot of iron and steel enterprises, all got good evaluation.



液压翻转平台 B 型 B type hydraulic flipping platform

产品特点: 1. 此产品可用于过跨平车上使用, 边走边翻卷。在翻卷的过程中安全可靠, 平稳, 无惯性, 每日翻卷量最大可达万吨。
2. 现本产品应用于很多钢铁企业, 均得到了很好的评价。

Features: 1. This product can be used with walking While flipping, in the process of overturn of safe and reliable, stable, no inertia. Up to a maximum of ten thousand tons of daily flip volume.
2. Now this product is applied to a lot of iron and steel enterprises, all got good evaluation.



真空吸盘吊具 Vacuum suction cup sling

说明: 真空吸盘吊具适用于非磁性材料如铝板、铜板、玻璃、木板、陶瓷, 等材料起重搬运。也解决了多层磁性材料(如多层钢板堆叠放在一起)用电磁吸盘或永磁吸盘容易吸起多层的问题。

Note: vacuum, sling is suitable for the nonmagnetic materials, such as lifting hanging aluminum plate, copper plate, glass, wood, ceramics etc. Also solved the multilayer magnetic material (such as multi-layer steel plate stacked together) with magnetic chuck or suction lift a problem of multilayer permanent-magnetic chuck easily.



真空薄板
Vacuum thin plate



真空薄板
Vacuum thin plate



真空玻璃翻转型
Vacuum glass flip type



真空薄板
Vacuum thin plate

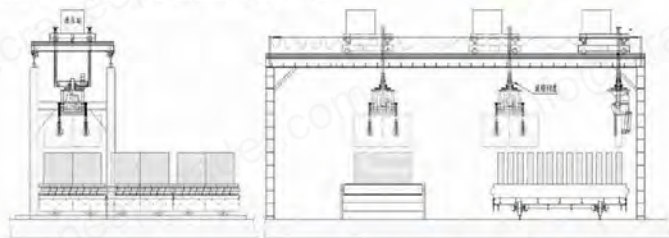


真空薄板
Vacuum thin plate

自动化吊装设备 Automatic lifting equipment

自动化吊装设备是在无人干预的情况下，利用光电限位开关、位移传感器、压力传感器、拉力传感器、光电编码器、等元器件实现吊具模拟量信号及数字量信号的采集，通过可编程控制器处理采集数据按照规定的程序或指令控制液压缸、步进电机或伺服电机等执行元件，实现吊具的精准移动。恒压夹紧、起吊、旋转或翻转及其他一系列复杂的动作。还可与客户其他的设备实现多种方式通信。可根据用户的实际情况吊装的不同要求进行设计。

Automatic lifting equipment working Without human intervention, using photoelectric limit switch, displacement sensor, pressure sensor, force sensor, photoelectric encoder, such as components to realize the spreader of analog signal and digital signal acquisition, through the collected data is processed by the programmable controller in accordance with the provisions of the procedures or instructions to control the hydraulic cylinder, a stepper motor or servo motor and the realization of the precision of sling executive components such as mobile, constant voltage clamping, lifting, rotate, flip, and other series of complex movements, can also be other way of equipment to achieve a variety of communication with the customers. According to the actual situation of user segments for the requirement of the design.



行走小车
Rail car



液压泵站
Hydraulic pump station



伺服电机减速机
Servo motor reducer



液压站配电箱
Hydraulic station distribution box



编程控制柜
Programming control cabinet

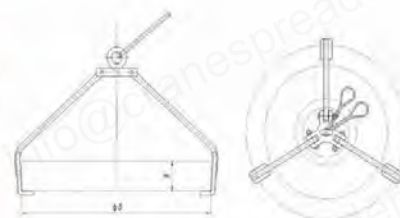


安装现场
Installation site

钢轮吊具 Steel wheel sling

A 型卧式外圆吊具 A type Horizontal cylindrical sling

本钢轮吊具只能对钢轮进行卧式吊装。This sling only can horizontal lifting the steel wheel.

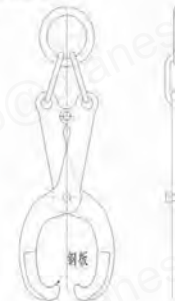


B 型卧式内孔吊具 B type horizontal inner hole sling



C 型立式吊具 C type Vertical sling

本吊具可对钢轮进行立式吊装。The clamp is used for vertical lifting of steel wheel.



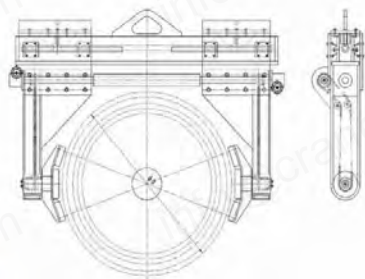
D 型轮对吊具 D type wheel sling

本吊具用于机车车轮的吊装。This sling used for hoisting of the locomotive wheel.



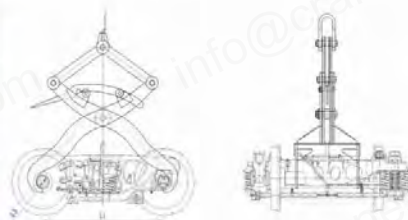
E 型电动翻转型 E type electric flip

本吊具可实现钢轮的翻转动。It can realize to flip steel wheel.



F 型转向架吊具 F type bogie clamp

用于机车的转向架吊装。Used for lifting locomotive bogie.



抓斗 crab bucket

本公司产品规格齐全，质量上乘，装卸效率高。使用寿命长，已广泛用于国内沿海、内河的几十个港口、钢厂、电厂，并受到一致好评和认可。

The product specifications complete, quality excellent, loading and unloading high efficiency, long service life. Has been widely used in domestic dozens of coastal and river ports, steel mills, power plants, and get the consistent high praise and recognition.



液压抓斗吊装实例
Hydraulic crab bucket hoisting instance



液压抓斗吊装实例
Hydraulic crab bucket hoisting instance



液压抓斗出厂
Hydraulic crab bucket shipping



木材用抓斗
Timber crab bucket



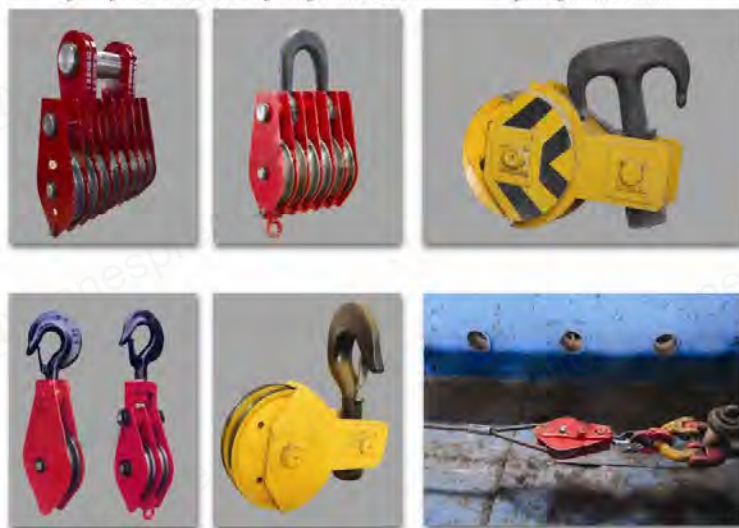
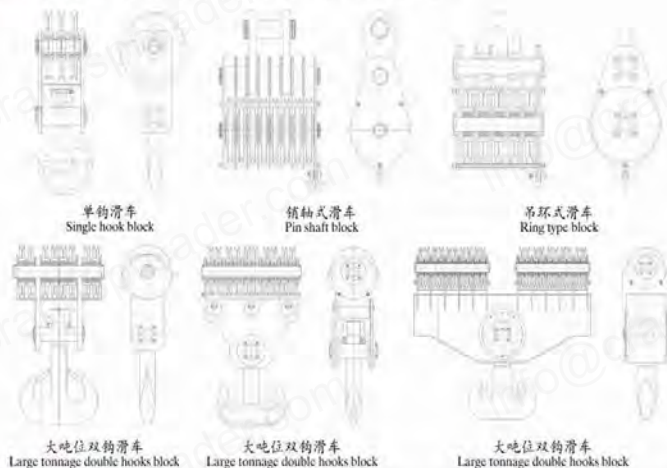
液压抓斗
Hydraulic crab bucket



液压抓斗
Hydraulic crab bucket

滑车 Block

河南弗尔格机械有限公司可根据用户需要制作各种样式的小型、中型、大型滑车。
we can according to user needs to make various styles of small, medium, large block.



滑车的拉力实验
Tensile test of block

手动吸盘 Manual chuck

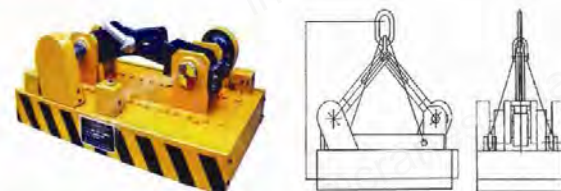
QZ 起重器系列产品无可匹敌的特点是：简便、轻巧、坚固、能量恒定。不论是在重工业还是轻工业领域，QZ 起重器是装卸平板和圆钢（已加工件或毛坯件）必不可少的工具。在实际应用中，既简便又安全。

The unique characteristic of QZ series of jack is simple, deft, firm and stable both in heavy industry and light industry. QZ jack is the necessary tool for assembling and un assembling plate and circle steel (processed parts or rough part). It is convenient and safe.



产品编码 Product Code	额定起重力 Rated lifting force (kg)	L (mm)	B (mm)	H (mm)	R (mm)	测试最大拉力 Max pull-off power (kg)	重量 Weight (kg)
QZ1-100	100	90	63	68	145	300	3
QZ1-400	400	160	95	180	160	1200	11
QZ1-600	600	220	115	125	230	1800	20
QZ1-1000	1000	260	145	145	280	3000	40
QZ1-1500	1500	310	145	145	280	3750	48
QZ1-2000	2000	340	160	165	410	5000	60
QZ1-3000	3000	420	185	185	510	7500	90
QZ1-4000	4000	480	200	200	510	10500	120
QZ1-5000	5000	580	300	300	650	15000	400

特制吊具 Auto-sucker



产品编码 Product Code	额定起重力 Rated lifting force (kg)	L (mm)	B (mm)	H (mm)	测试最大拉力 Max pull-off power (kg)	重量 Weight (kg)	执行标准 standards
QZ2-0.5	500	549	232	287	1100	80	中国船舶行业标准
QZ2-1.0	1000	928	450	315	2200	220	CB/T3555《平面永磁吸吊器》
QZ2-2.0	2000	950	450	325	4400	225	China's ship industry standard CB/
QZ2-3.0	3000	1072	700	387	6600	520	T3555 "planar permanent magnetic
QZ2-5.0	5000	1072	700	480	12000	880	suction hanging device"

特制吊具 Special spreader



二次杠杆式夹具
Quadratic lever type clamp



双臂竖卷夹具
Double arms vertical coil clamp



铝棒吊具
Aluminum bar spreader



钛坯吊具
Titanium slab spreader



电极吊具
Electrode spreader



中板吊具
Medium plate spreader

特制吊具 Special spreader



钢筒翻转吊具
Steel cylinder flip clamp



电动板坯夹具
Electric slab clamp



电动铝锭翻转夹具
Electric aluminum ingot flip clamp



液压铝锭翻转夹具
Hydraulic aluminum ingot flip clamp



电动纸卷吊具
Electric paper coil clamp



电动纸卷吊具
Electric paper coil clamp

特制吊具 Special spreader



电动伸缩夹具
Electric stretch clamp



电动伸缩夹具
Electric stretch clamp



电动翻转横梁吊具
Electric flip beam spreader



特制吊具
Special sling



叶片吊具
Leaf blade spreader



塔筒吊具
Fan spreader

特制吊具 Special spreader



大型横梁
Large beam



大型抬梁
Large hanging beam



滑轮组
Pulley block



电动旋转工字梁
Electric rotary H beam



工字梁
H beam



机舱吊具
Cabin spreader

特制吊具 Special spreader



水泥管道吊具
Cement pipeline clamp



液压加气砖夹具
Hydraulic pressure aerated brick clamp



圆钢夹具
Round steel clamp



尾坯吊具
Tail billet sling



单根钢轨夹具
Single rail clamp



多根手动钢轨夹具
Dogan rail clamp manually

特制吊具 Special spreader



自动内撑吊具
Automatic inner hole sling



手动内撑吊具
Manual inner hole sling



自动内撑吊具
Automatic inner hole sling



三爪吊具
Three jaw sling



三角梁吊具
Triangle beam spreader



特制吊具
Special sling

特制吊具 Special spreader



出口特制吊具
Export special sling



坩埚吊具
Crucible sling



出口特制吊具
Export special sling



叉车油桶吊具
Forklift oil drum spreader



炉渣抓斗
Slag grab bucket



钢丝绳存放架
Wire rope storage rack

