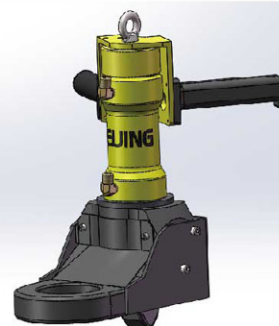
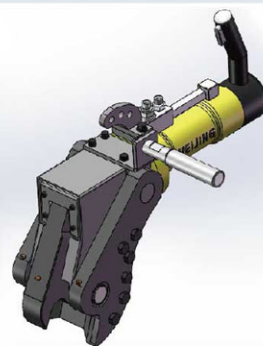




浇冒口分离器 Degating Wedge Breaker



苏州微晶自动化有限公司
SUZHOU WEIJING AUTOMATION CO., LTD

公司概况 >>>

About Weijing

苏州微晶自动化有限公司，成立于2008年，是一家致力于为全球铸造企业提供专业、优质的设备、服务和解决方案中国公司。

我们的服务覆盖：方案设计、设备制造、设备销售和维护。

我们的产品有：冒口分离器、浇道勾断器、气冲锤、打磨机、浇注机、铁水搬运系统，及其他定制设备、解决方案；已有多个产品获得专利。

苏州微晶现已提供超过600套设备和系统在全球近300家铸造厂使用。

SUZHOU WEIJING AUTOMATION CO., LTD, established in 2008, is a Chinese company dedicating to provide professional equipment, services and solutions with premium quality for global foundries.

Our services cover: solution designing, equipment manufacturing, equipment selling and service.

Our products include: Wedge Breaker, Runner Breaker, Air Hammer, Grinding Machine, Pouring Machine, Molten Iron Handling System, and other customized equipment and systems. And several products have been patented in China.

There are more than 600 sets of equipment and systems supplied by Weijing at nearly 300 foundries worldwide.

公司使命 >>>

Our Mission

作为中国市场的清理解决方案的领导者，为铸造厂提供专业的清理解决方案，是我们的使命。积极行动、坦诚沟通、高效合作，是我们的使命、行为风格。

As the degating machine leader in China market, providing the most suitable machine to foundries is our mission.

Positive action, honest communicating, efficient collaboration, is our behavior style.

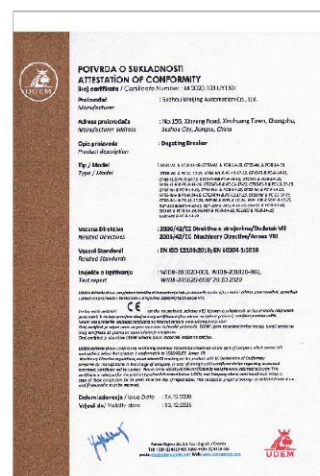
产品专利 >>>

Product patent



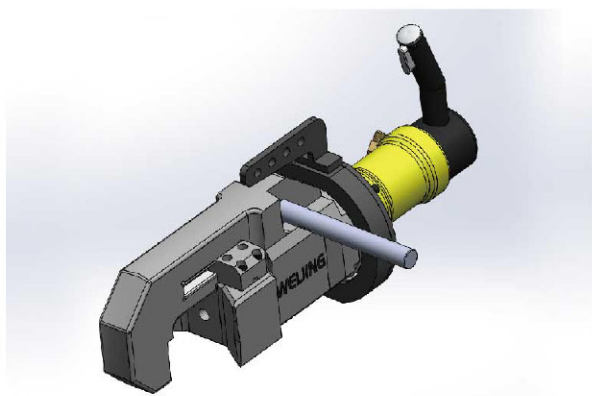
公司资质 >>>

Certificates

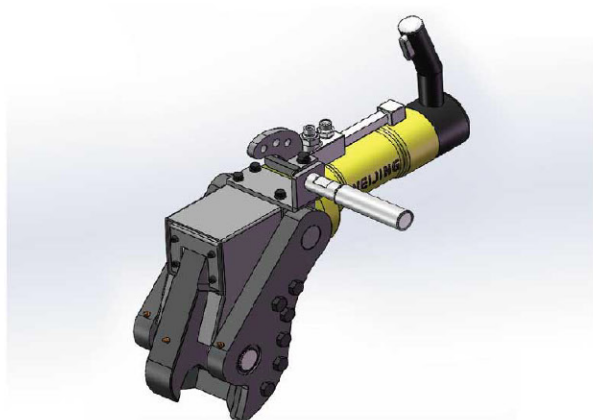




浇冒口分离器
Wedge Breaker



浇道勾断器
Runner Breaker



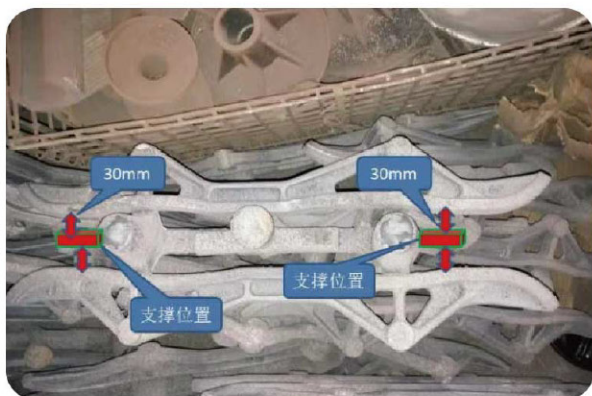
浇道剪切器
Runner Cutter



发热冒口去除器
Exothermic Riser Breaker



泵站系列
Pumps



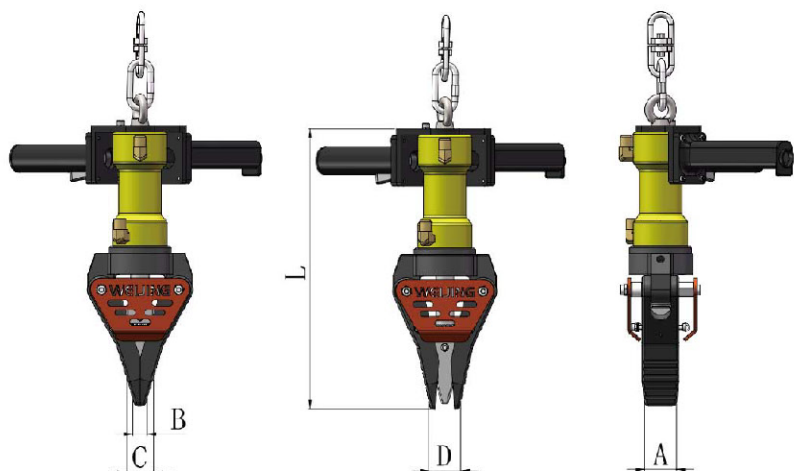
应用介绍
Application introduction

■ 备注：此产品，仅适用于灰铁、球铁铸件浇冒口分离。

Notes: These breakers are just suitable for degating Grey Iron Castings, SG Iron Castings.

WL系统分离器介绍

WL Type Wedge Breaker



WL系列型号 Models of WL Type	破坏力 Force (T)	分截面积 Section Area (mm*mm)	重量 Weight (KG)	钳头参数Wedge Dimensions: 单位mm				
				L	A	B	C	D
GT40-WL	9T	15*15	12	385	50	12	44	39
GT50-WL	14T	30*30	25	485	70	18	53	75
GT55-WL	16T	35*40	27	490	75	20	69	68
GT65-WL	25T	55*60	30	500	75	26	72	71
GT80-WL	35T	60*65	43	585	75	26	72	71

特点:

- 适用性: 工作时, 无中心楔块突出, 能垂直分离; 分离速度能达30次/分钟, 满足高效生产需求;
- 人体工程学: 短手柄设计, 使得腰部高度鳞板分离更轻松; 宽大、防滑两边刀片, 支撑更稳且不容易打滑; 独特的结构设计, 使得日常维护更容易;
- 耐用性: 内部双层密封, 效果好且寿命长。
- WL型分离器, 更适合在腰部高度鳞板上高效使用!

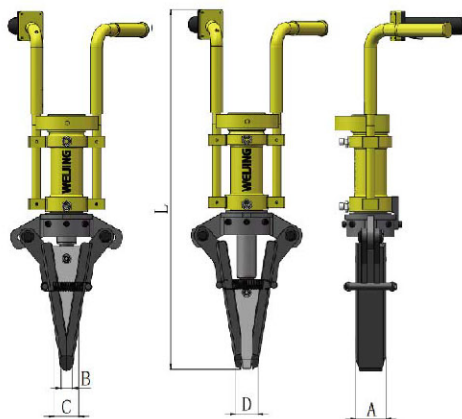
Features:

- Applicability: When working, no central wedge protruding, can be separated vertically. The separation speed can reach 30 times per minute to meet the high efficiency production demand.
- Ergonomics: Short handle design, make waist height scale plate separation easier. Wide, anti-slip blades on both sides, support more stable and not easy to slip. Unique structural design, making daily maintenance easier.
- Durability: internal double-layer seal, good effect and long life.
- WL separator, more suitable for the waist height scale board efficient use!

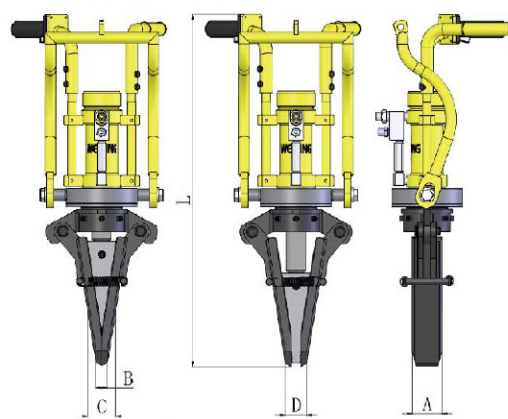
FL系统分离器介绍

FL Type Wedge Breaker

FL系列



FL-R (旋转) 系列



FL系列型号 Models of FL Type	破坏力 Force (T)	分截面积 Section Area (mm*mm)	重量 Weight (KG)	钳头参数 Wedge Dimensions: 单位mm				
				L	A	B	C	D
GT40-FL	9T	15*15	14	700	50	12	44	39
GT45-FL	12T	20*30	30	820	69	17	52	43
GT45-FL-R	12T	20*30	35	830	69	17	52	43
GT55-FL	16T	35*40	32	825	69	27	62	53
GT55-FL-R	16T	35*40	36	830	69	27	62	50
GT60-FL-R	20T	55*55	55	885	60	24	75	46
GT80-FL-R	35T	60*65	58	900	60	24	75	46

特点:

- 适用性: 工作时, 无中心楔块突出, 能垂直分离; 分离速度能达30次/分钟, 满足高效生产需求;
- 人体工程学: 长手柄设计, 使得地面或地面鳞板分离更轻松且保护工人腰部; 宽大、防滑两边刀片, 支撑更稳且不容易打滑; 独特的结构设计, 使得日常维护更容易;
- 耐用性: 内部双层密封, 效果好且寿命长。
- FL型分离器, 更适合在地面或地面鳞板上高效使用!

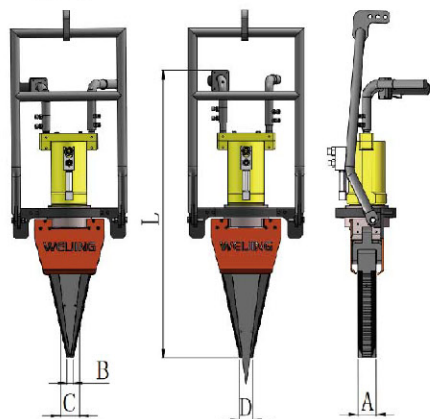
Features:

- Applicability: When working, no central wedge protruding, can be separated vertically. The separation speed can reach 30 times per minute to meet the high efficiency production demand.
- Ergonomics: The long handle design makes the ground or the ground scale plate separation easier and protects the worker waist. Wide, anti-slip blades on both sides, support more stable and not easy to slip; Unique structural design, making daily maintenance easier.
- Durability: internal double-layer seal, good effect and long life.
- FL type separator, more suitable for efficient use on the ground or on the ground scale board!

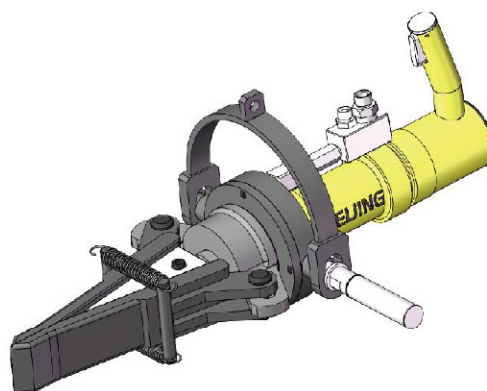
RH系统分离器介绍

RH Type Wedge Breaker Introduction

RH系列



RH+系列



RH系列型号 Models of RH Series	破坏力 Force (T)	分截面积 Section Area (mm*mm)	重量 Weight (KG)	钳头参数 Wedge Dimensions: 单位mm				
				L	A	B	C	D
GT45-RH	12T	20*30	33	835	50	21	55	42
GT45-RH+	12T	20*30	32	725	69	31	45	57
GT55-RH	16T	35*40	42	840	50	20	60	44
GT55-RH+	16T	35*40	33	720	69	31	45	57
GT63-RH+	20T	50*55	26	510	50	18	56	39
GT80-RH	35T	60*65	70	970	60	21	72	42
GT80-RH+	35T	60*65	67	775	60	21	72	42

特点:

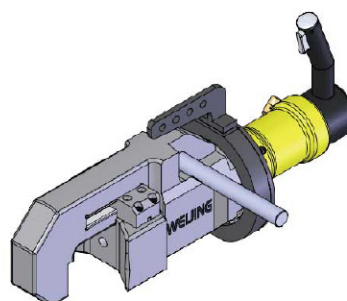
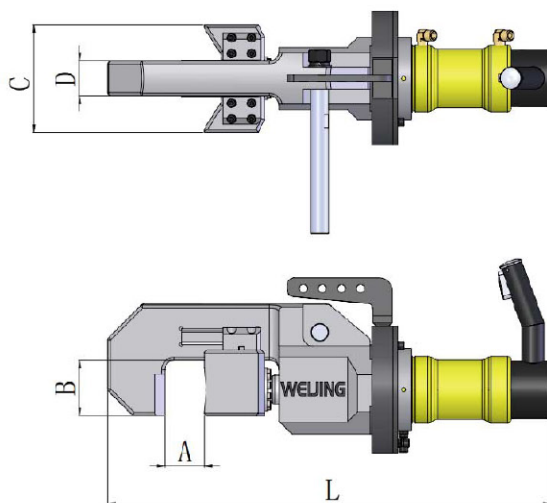
- 适用性: 特别适合分离斗齿、工程机械铸件地面分离; 同样适合腰部鳞板线上分离铸件;
- 人体工程学: 180度旋转, 使得水平作业或垂直作业都方便; 宽大、防滑两边刀片, 支撑更稳且不容易打滑; 独特的结构设计, 使得日常维护更容易;
- 耐用性: 内部双层密封, 效果好且寿命长。
- RH型分离器, 特别适合分离斗齿、工程机械铸件地面分离!

Features:

- Applicability: Especially suitable for separating bucket teeth and construction machinery castings; Also suitable for waist scale plate line separation casting;
- Ergonomics: 180 degrees rotation, making horizontal or vertical work convenient. Wide, anti-slip blades on both sides, support more stable and not easy to slip; Unique structural design, making daily maintenance easier.
- Durability: internal double-layer seal, good effect and long life.
- RH type separator, especially suitable for separating bucket teeth, construction machinery castings ground separation!

浇道勾断器

Runner Breaker



规格型号 Model	重量 Weight (KG)	分截断面积 Section Area mm*mm	A/mm	B/mm	C/mm	D/mm	L/mm
GDJ-55	36	Φ40	42	77	150	50	523
GDJ-65	64	Φ55	62	87	170	55	700
GDJ-80	76	Φ65	70	80	200	60	720

特点:

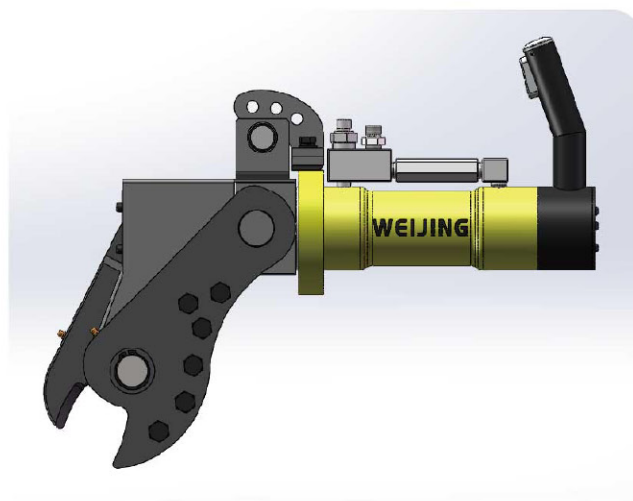
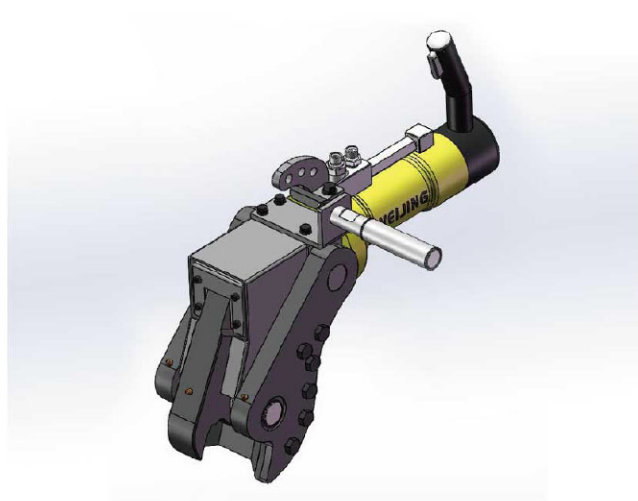
- 适用性: 主要应用于铸件浇道勾断, 提高废料回炉率; 对比切割方式, 这种方式更安全、环保、高效、成本低。
- 人体工程学: 双手操作, 更方便且符合安全性要求。

Features:

- Applicability: It is mainly applied to the casting gate hook and break, to improve the rate of waste return furnace. Compared with cutting mode, this way is safer, environmentally friendly, efficient and low cost.
- Ergonomics: Hand operation, more convenient and meet the safety requirements.

浇道剪切器

Runner Cutter



型号 Model	RC1660
剪切力 Cutting power	16 T
最大浇道直径 Maximal runner size	60mm (可剪切) / 60 mm diameter
剪切效率 Circle time	12次/分钟 / 12 times per minute
自身重量 Weight	58 Kg
尺寸 Cutter dimensions	610*190*465mm

应用特点:

- 安全、便捷、高效剪切灰铁、球铁浇道，方便回炉，提供回炉率。

Applications:

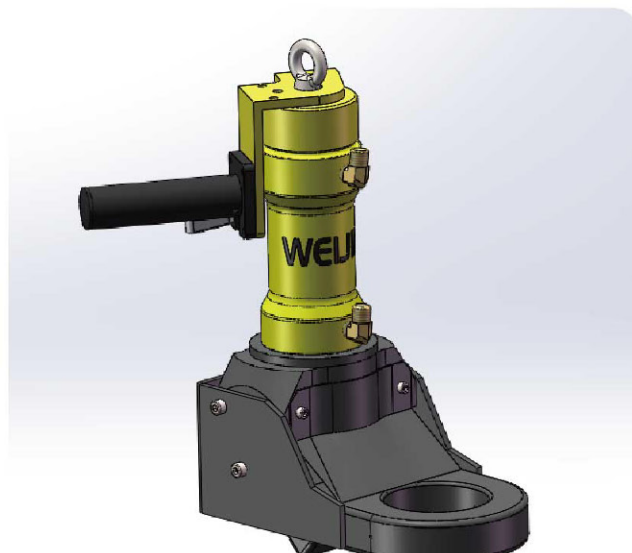
- Cutting runners of Grey Iron castings or Ductile Iron castings before putting back to the furnace.

Features:

- More ergonomic, more flexible, more quicker. Improve efficiency of putting runners back to the furnace.

发热冒口去除器

Exothermic Riser Breaker



型号 Model	ERB1640
断裂力 Breaking Force	16 T
最大冒口断裂面 Max. neck size	40mm (可切断) / 40mm
最大冒口直径 Max. riser diameter	80mm (可套入) / 80mm
自身重量 Weight	42 Kg

应用特点:

- 适用于分离灰铁、球铁铸件上的立式冒口，尤其没有支撑点，而且便捷、灵活、高效。

Features:

- More ergonomic, more flexible, more quicker.

Applications:

- Quickly break the vertical risers of Grey Iron castings or Ductile Iron castings, especially without any supporting points for wedge breaker.

动力单元

Power Pack



型号 Model		PC-8-14-19	PC-11-17-23	PC-8-14-19-S	PC-11-17-23-S
电压 Voltage	V	380V 50/60HZ	380V 50/60HZ	380V 50/60HZ	380V 50/60HZ
额定输出功率 Output Power	KW	7.5	11	7.5	11
低压泵输出 Low Pressure Oil Flow	L/Min	19	23	19	23
低压泵压力 Low Pressure	Mpa	18	18	18	18
增压缸工作压力 High Pressure	Mpa	45	45	45	45
油箱容量 Oil Tank Capacity	L	140	170	140	170
油箱容量（有效）Effective Tank Capacity	L	105	120	105	120
液压油 Hydraulic Oil		ISO(VG46)	ISO(VG46)	ISO(VG46)	ISO(VG46)
油温 Oil Temperature		10-60°	10-60°	10-60°	10-60°
冷却方式 Cooling Way				S	S
标配风冷 Air Cooling S水冷 Water Cooling					
待用重量 Weight	KG	310	355	325	370
外型尺寸（长*宽*高） Dimensions (L*W*H)	mm	1130*555*1110	1135*630*1190	1130*685*1110	1135*770*1190



特点:

- 基本功能：计数器、液压油位显示、风冷；
- 出色体验：两种压力自动切换：18Mpa用于分离前和分离后钳芯伸出和缩回；45Mpa用于接触到铸件和分离时供压；在快速分离和密封件寿命长久性两个维度上找到平衡点。
- 超级耐用：低压泵3百万次寿命确保，增压缸8百万次保证，正确日常维护为前提；内置固态继电器在铸造厂多粉尘环境下更安全，2千万次寿命确保，稳定电压为前提；水冷系统可选，满足7*24小时使用，更好保持低油温，延长密封件使用寿命。
- 节能省时：20分钟不作业，泵站将会自动休眠，一碰分离器手柄上按钮，又会自动启动，不需要人去开关机。
- 更多可选项：可根据不用分离场景要求选择高低功率搭配风冷/水冷系统泵站。

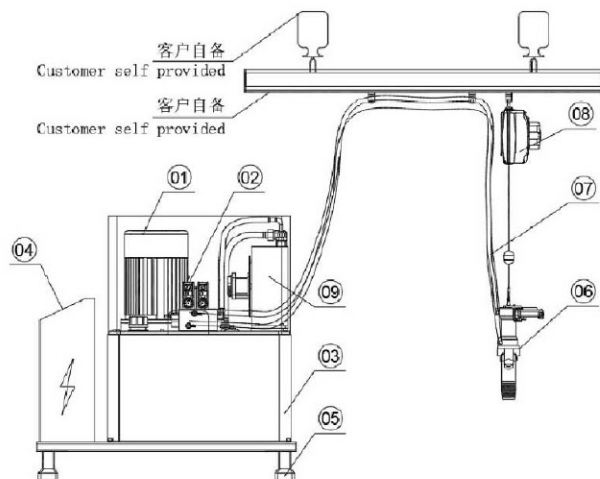
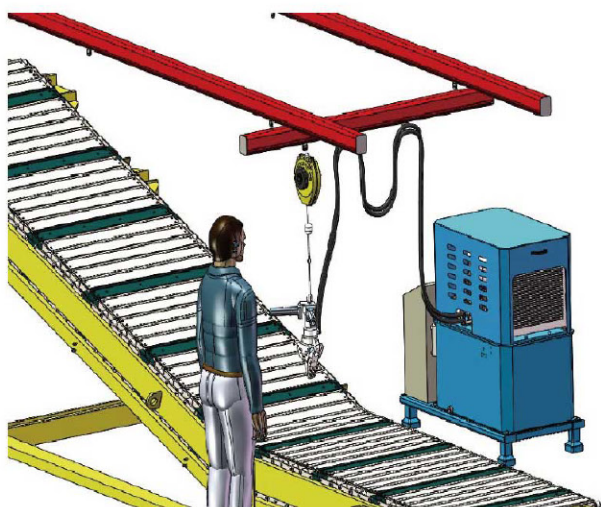
Features:

- Basic functions: cycle counting, oil level indicating, air cooling.
- Great experience: two working pressures switch automatically: 18 Mpa before breaking castings and for drawing back central wedge. 45 Mpa only for a few second casting breaking. Keep a balance between fast degating and long lifetime of sealing inside.
- Super durability: 3M times guaranteed for low pressure pump, 8M times for Booster Pump based on regular correct maintenance. solid-state relays inside for more safer since no sparks in dust. 20M times guaranteed based on stable voltage supplied. Water Cooling system is an option available for 24*7 operating condition. It can keep hydraulic oil temperature at acceptable level for prolonging lifetime of sealing inside.
- Energy & time saving: pump will hibernate automatically after 20 minutes non operating, operator doesn't need to turn off the machine after work.
- More options available: 7.5KW/11KW Power Station are available for foundries to choose for different speed required with air cooling or water cooling.



布局及部件说明

Layout And Key Part Description



代号 No	名称 Description	数量 Qty
1	电机及油泵 Electric Motor and Pump	1
2	高低压组合阀组 Valve block	1
3	油箱 Oil Tank	1
4	控制系统 Control System	1
5	底座 Base	1
6	液压钳头 Wedge	1
7	高压油管 Oil Hose	2
8	弹簧平衡器 Balancer	1
9	冷风机组件 Cooling system	1

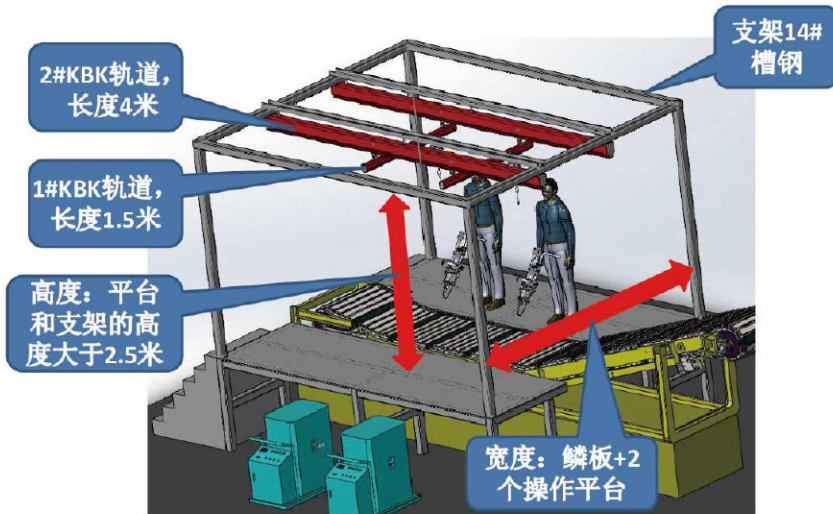
■ 备注：此布局图，仅供参考。实际安装布局，微晶将会根据现场情况给出最适合的建议。

Notes: The layout is just for reference. Weijing people will give you the most suitable proposal according to your real situation.

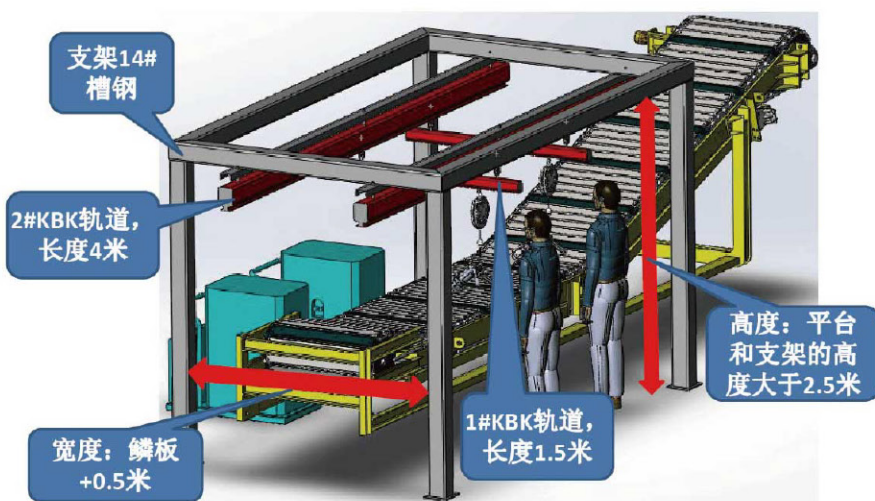
设备安装方式可分为如下

Installation way

FL型号分离器安装方式 设备低腰操作方式（人员和鳞板的高度一致） FL Type Wedge Breaker Installation

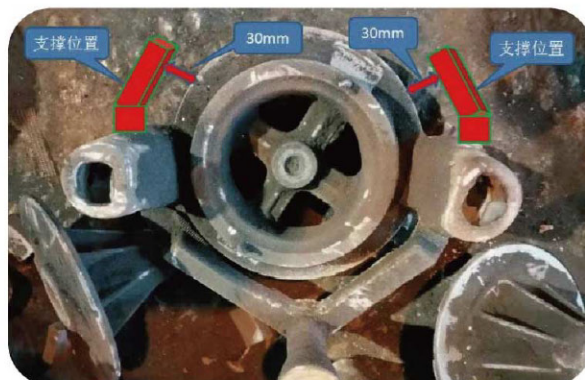
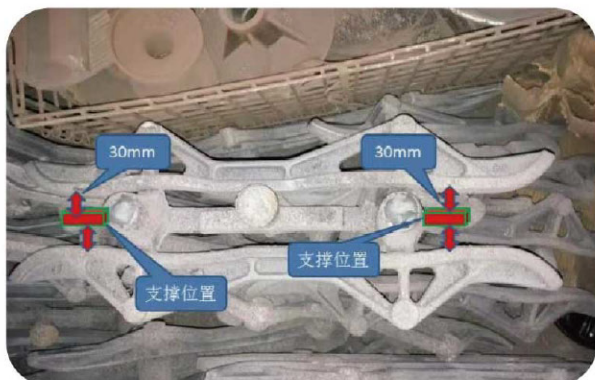
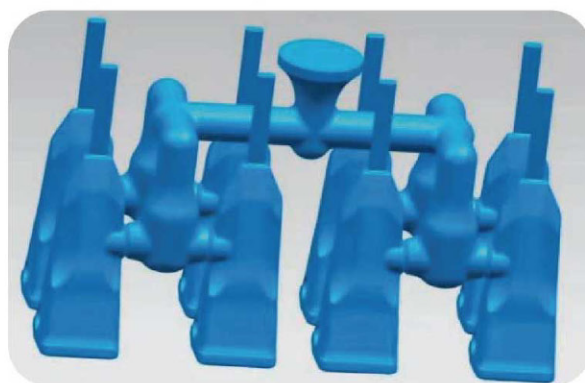
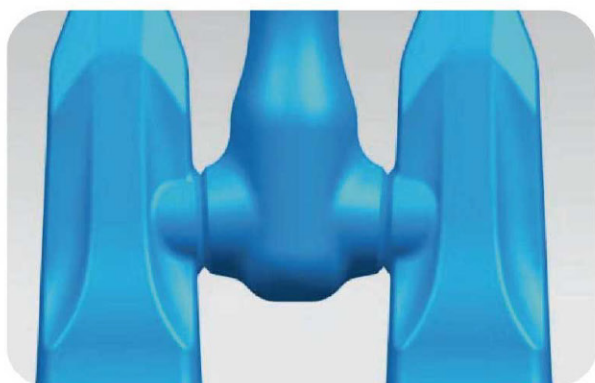


WL型号分离器安装方式 设备低腰操作方式（人员站在地面上操作） WL Type Wedge Breaker Installation



冒口浇道设计参考图

Riser/Runner Design Suggestion



原因和益处:

- 分离器插入需要一定的间隙，作业时两边刀片需要有支撑点，这样才能插入正常作业。
- 刀片支撑面需要大于冒口断裂面，这样分离才不会带肉。

Reasons and benefits:

- Should keep the room for wedge to insert, and should have two supporting points for two side blades to break the risers.
- The area of supporting points should be bigger than neck size of risers for avoiding casting damaging.

客户名称	Customer Name	归属 Attribution
富士和机械工业（湖北&昆山）有限公司	Fujiwa Machinery Industry (Kunshan & Hubei) Co.,Ltd	中国China
福州六和机械有限公司	Fuzhou Lioho Machinery Co., Ltd	中国China
广州六和桐生机械有限公司	Guangzhou KLC Machinery Co., Ltd	中日China-Japan
六和金属（湖北）有限公司	Lioho Metal (Hubei) Co., Ltd	中国China
苏州中央可锻有限公司	Suzhou Chuo Malleable Iron Co., Ltd	日本Japan
苏州石川制铁有限公司	Suzhou Ishikawa Iron Manufacturing Co., Ltd	日本Japan
苏州市华川铸造有限公司	Suzhou Huachuan Foundry Co., Ltd	中国China
乔治费歇尔汽车产品（昆山）有限公司	Georgfischer Auto Parts (Kunshan) Co.,Ltd	瑞士Switzerland
溧阳市万盛铸造有限公司	Liyang Wansheng Casting Co., Ltd	中国China
科华控股股份有限公司	Kehua Holdings Co.,Ltd	中国China
常柴股份有限公司	Changchai Co., Ltd	中国China
贝原合金（苏州）有限公司	Kaibara Alloy (Suzhou) Co., Ltd	日本Japan
常州市常牛机械有限公司	Changzhou Changniu Machinery Co., Ltd	中国China
江苏常发农业装备股份有限公司	Changfa Agriculture Equipment Co., Ltd	中国China
江苏恒立液压股份有限公司	Jiangsu Hengli Hydraulic Co., Ltd	中国China
烟台胜地汽车零部件有限公司	Yantai Winhere Auto Part Manufacturing Co., Ltd	中国China
天润曲轴股份有限公司	Tianrun Crankshaft Co., Ltd	中国China
山东金鼎实业股份有限公司	Shandong Jinding Industrial Co., Ltd	中国China
山东联诚精密制造股份有限公司	Shandong Liancheng Precision Manufacturing Co.,Ltd	中国China
山东美陵化工设备股份有限公司	Shandong Meiling Chemical Equipment Co.,Ltd	中国China
四川绵阳好圣汽车零部件制造有限公司	Mianyang oasheng Auto Parts Manufacturing Co., Ltd	中国China
四川都江堰铸造有限责任公司	Sichuan Dujiang Foundry Co., Ltd	中国China
浙江点铁科技有限公司	Hangzhou Diantie Auto Components Co.,Ltd	中国China
浙江开山铸造有限公司	Zhejiang Kaishan Foundry Co., Ltd	中国China
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