

公司简介 »
Company Profile



▲ 厂房外景

ECOTRUST 公司致力于产品的品质与价值，始终奉行“品质决定价值、细节成就未来”的生产经营理念。我们努力的目标一是为压铸行业提供高性价比的压铸周边用品。希望能以我们对压铸的专业，给客户带来裨益、效益与成功。

ECOTRUST MACHINERY is dedicated to the products' quality and value, and embracing the production and operation philosophy of “**and details create the future**”. What we aim at is to provide the peripherals with high performance-price ratio in the die casting industry. We hope that we can provide our customers with benefits and success by leveraging our expertise in die casting.

DIE CASTING CONSUMABLE

Contact us at any time...

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Wechat QR Code

产品系列 >>
Company Products



• 二位自吸式复合管喷枪
Two Self-suction Of Composite Pipe Spray Gun



• 锻造用双喷嘴枪
Double Atomization Spray Gun For Forging



• 二位自吸式双管喷枪
Two Self-suction Of Double Pipe Spray Gun



• 自吸式喷砂枪
Self Suction Sand-blasting Gun



• 复合熔剂
Multi-Function Flux



• 压铸脱模剂
Die Casting Release Agents



• 球墨铸铁冲头
Nodular Cast Iron Plunger Tip



• 镍基合金冲头
Nickel-base Plunger Tip



• 真空自补偿冲头
Vacuum Self-compensating Plunger Tip



• 纳米微晶冲头
Namocrystalline Plunger Tip



• 冲头润滑油滴注机
Plunger Lubricants Drip Machine



• 冲头润滑油
Plunger Lubricants



• 自动喷雾头
Automatic Spray Tip

喷枪系列 >>
Spray Gun

ECOTRUST 喷枪是以压缩空气在喷嘴内腔突扩形成负压为原理，来实现远程自动吸送液体涂料而喷涂；分成三类：二位自吸可调式双管喷枪、二位自吸可调式复合管喷枪及二位自吸背调式喷枪。双管喷枪雾化量及雾化面积可调节，复合管喷枪出气量及雾化量可调节。出气档位用于涂料吹匀吹干及清理模具残留物，出液档位用于喷涂液体涂料。

ECOTRUST MACHINERY spray gun realizes automatic remote to convey and spray liquid coating with the principle that the negative pressure is produced by the sudden expansion of the compressed air in the spray nozzle; it is classified into two types: two-position self-suction adjustable double-pipe spray gun, and two-position self-suction adjustable composite-pipe spray gun. The atomization quantity and area of the double-pipe spray gun are adjustable, while both the gas discharge and atomization quantities of composite-pipe spray gun are adjustable. The gas discharge position is used for the uniform drying of the coating by blowing and for the removal of the mold residues, while the liquid discharge position is used for the spraying of the liquid coating.



技术参数: 压缩空气压力 0.4~0.6MPa, 涂料有效提升高度 <4m;
常用喷枪长度: 400mm/450mm/500mm; 喷枪长度可以定制, 以 50mm 倍增。

① 注意事项

① 喷枪使用后最好能及时清洗，特别喷涂粘连或带固体微粒的涂料。清洗方法：将涂料输送管插入清水（或有机溶剂）喷雾 2~3 分钟，即可达到清洗效果；
② 如果发现喷枪堵塞，可以用拇指堵住喷嘴，同时打开第一、第二档位，堵塞物有可能从涂料管道返回，解除堵塞。

1. The spray gun shall be timely cleaned after the use, particularly after spraying sticky coating or coating with particles.
Cleaning method: insert the coating conveying pipe into clean water (or organic solvent) for 2-3 minutes of atomization, to achieve the cleaning effect;
2. If the spray gun is blocked, you may use your thumb to block the spray nozzle, and open the first and the second positions at the same time, so that the blocked substances can possibly return from the coating pipe and be removed.

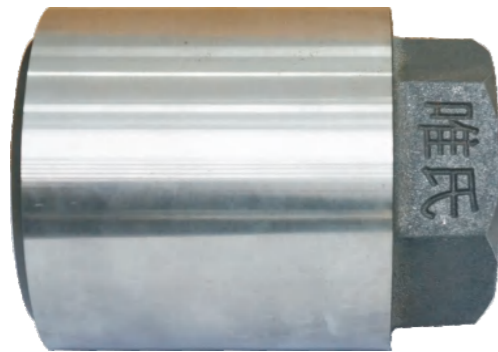


球墨铸铁冲头

Nodular cast iron injection head

ECOTRUST 集二十多年应用与制造压射头的研究，通过添加改变球铁中的合金元素含量，并经过特殊处理，细化组织晶粒并让其晶格产生畸变和位错，提高球铁的耐高温与耐金属间磨损性能，制造出当前较为科学理想的使用寿命高达5000模次球墨铸铁压射头。

ECOTRUST MACHINERY has more than 20 years of research on the application and manufacture of the plunger tip, by adding the content of alloy elements in the ductile iron, and refining the grain structure to make its crystal lattice distortion and dislocation after special treatment. Therefore, the high temperature resistance and the wear resistance between metals are improved. At present, our company produced a scientific and ideal nodular cast iron plunger tip whose service life is up to 5000 times.



⚠ 压射头使用注意事项

- ①如出现单边拉伤或磨损，检查容杯与浇口套配合是否错位；
- ②压射头最好预热后使用，可消除其同容杯和浇口套的间隙，以免冲头拉伤；平时起始开机时，慢压射几模，也可致使压射头与容杯配合间隙理想化；
- ③压射头在高温状态机械性能会有所损失，尽可能采用水循环冷却，延长使用寿命；
- ④球墨铸铁石墨虽呈团状具储油润滑功能，但球状石墨极其细小，建议采用低分子量的润滑油润滑，延长压射头使用寿命；
- ⑤用户应根据冲头规格大小、冷却状况以及容杯状况，大致确定冲头配合公差系数，通常公差系数从 0.10%至0.17%之间选取，来计算冲头公差。

Instructions for use and notes of the plunger tip

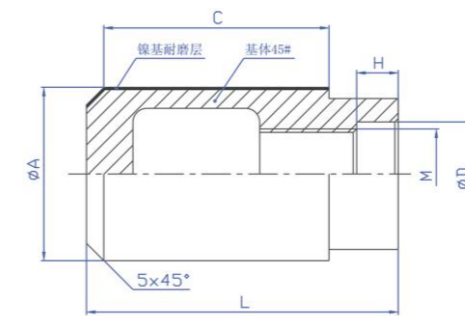
1. The sprue bushing and the shot sleeve should be correctly axially fit with each other; otherwise they will result in the unilateral tensioned damage and unilateral wearing of the plunger tip;
2. Preheat the plunger tip before using, because it can eliminate the gap between the shot sleeve and sprue bushing, so as to avoid the strain of the plunger tip. Shot several modes slowly on the plunger tip when opening the machine, it can also make the gap between injection and solution cup idealized.
3. The mechanical properties of the plunger tip will lost at high temperature, and the water cycle cooling can be used as much as possible to extend the service life of the plunger tip.
4. Although the graphite in nodular cast iron presents pellets which have oil lubrication function, the spherical graphite is extremely small. The suggestion is that the users should use low molecular weight lubricating oil to extend the service life of the plunger tip.
5. The user should roughly determine the tolerance coefficient of the plunger according to the sizes of the plunger, cooling conditions and the shot sleeve conditions. The tolerance coefficient is usually selected from 0.10% to 0.17% to calculate the tolerance of the plunger.

镍基合金冲头

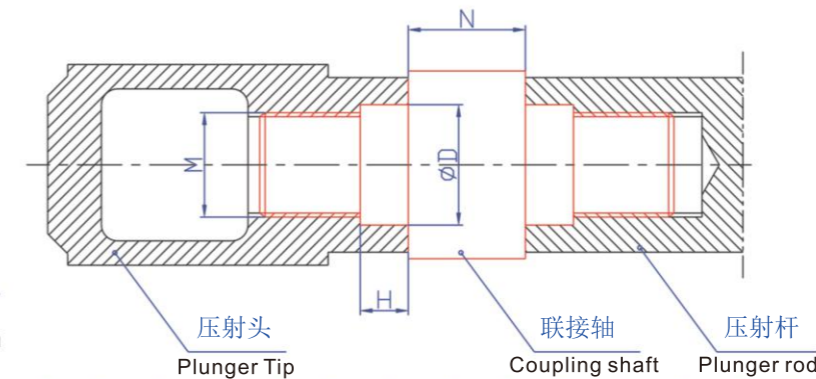
Nickel-base injection head

镍基冲头以碳钢为基材，表面焊接Ni、Cr、B、Si、Mo耐磨减磨合金强化层而成。以Ni、Mo自身极佳的耐高温性、减磨性，成倍提高了冲头耐金属间的磨损性，并大大降低了对容杯的损伤性。强化层硬度HRC45±3。使用寿命1万模次左右。

Nickel-base plunger tip is made with carbon steel as the base material, and is welded with Ni, Cr, B, Si and Mo wear-resistant and wear-reducing alloys strengthening coat. With excellent high temperature resistance and wear reduction characteristics of Ni and Mo, doubly improving the wear resistance among the metals and the plunger tip, and largely reducing the damage of the shot sleeve. Nickel-base plunger tip has strengthening hardness of HRC45±3. The service life is about ten thousand times.



镍基压射头示意图



压射头必须【标注】的5个关键尺寸

- ①压射头外径ØA及其公差
(公差系数从0.10%到0.17%之间选定)
- ②压射头总的长度L
- ③与压射杆连接的螺纹尺寸M
- ④与压射杆配合的肩位尺寸ØD
- ⑤以及肩位尺寸ØD的深H

Five key dimensions of the plunger tip that shall be marked

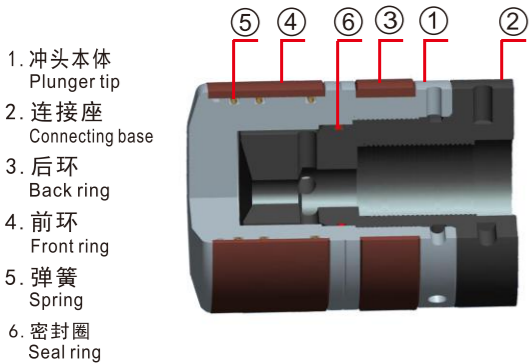
1. Outer diameter of the plunger tip ØA and its tolerance (tolerance coefficient is selected from 0.10% to 0.17%)
2. Total length L of the plunger tip
3. Thread size M connected to the injection rod
4. Shoulder size ØD fits for the injection rod
5. Depth H of ØD, the shoulder size

WP-HVR真空自补偿冲头 >>
WP-HVR Vacuum Self-compensate Plunger Instructions

真空自补偿冲头(专利产品)工作原理是开口铜环在内置弹簧弹力作用下永远处于“张开”态势，致使铜环外径的磨损得到环的“张大”自动补偿，始终让铜环外周与容杯内壁处于紧贴状态，密闭容杯内室，达到真空密封效果并延长冲头使用寿命。

The working principle of the vacuum self-compensating plunger(patent product) is that the open copper ring is always in the "open" tendency under the acting force of the built-in spring, so that the wear of the outer diameter of the copper ring is automatically compensated by the "expanding" of the ring, always allowing the outer circumference of the copper ring and the inner wall of the shot sleeve stay in a tight state, hermetically seals the inner chamber of the shot sleeve to achieve the vacuum sealing effect and increase of the service life of the plunger.

产品结构示意图
PRODUCT STRUCTURE



单环真空自补偿冲头
Single ring vacuum self-compensate plunger



双环真空自补偿冲头
Two ring vacuum self-compensate plunger

零部件寿命：本体30000-50000模次；
前环5000-10000模次；
后环是前环的2-3倍。

Component life: Body 30000-50000 shots;
Front ring 5000-10000shots;
Back ring is front ring × 2-3.



纳米微晶冲头 >>
Nanocrystalline Plunger Tip

通过特种工艺处理，致使晶间组织微晶化、晶格位错畸变、组织密度增大，成倍提高金属材料的耐磨性。

- 经微晶化处理的球墨铸铁冲头，使用寿命是未经处理的5倍以上；
- 正确选择冲头的公差范围，是保证冲头使用寿命的前提。



Through the special processing technology, the microcrystallization of intercrystalline structure, lattice dislocation distortion, the density of structure increases, causes the wear resistance of metal material improved several times.

- The nodular cast iron plunger tip treated with microcrystallization has 5 times more service life than the untreated.
- Proper selection of the tolerance range of plunger tip is the prerequisite to guarantee the service life of the plunger tip.

压铸脱模剂

Die Casting Release Agents



以我们对压铸及化学的专业，并历经二十余年的应用研究，唯氏压铸脱模剂从品质性能到经济性能都广泛得到同行们信赖与认同。主要成份合成蜡、合成油、改性硅氧烷以及乳化剂等原材料源自美国德国，部分原料来自国内一级企业，产品品质性能与进口产品已经没有太大差异。

理化指标：无限混溶于水（水溶性），乳白色液体（液滴偏光为淡蓝色），无闪点，芳香味，PH8.0~PH9.0，密度0.96~0.97g/cm³

Based on our professional level in die casting and chemical industry, as well as more than twenty years of research and development, the company's die casting release agents has been widely trusted and recognized by the counterparts from quality performance to economic performance. The main constituents, including synthetic wax, synthetic oil, modified siloxane and emulsifier, are imported from USA and Germany, with some raw materials being purchased from the first-class enterprises in China, whose products' quality and performance are comparable with the imported products.

Physical and chemical indexes: unlimitedly soluble in water (water soluble), milk white liquid (the liquid drop has the bluish polarized light), without flash spots, aromatic smell, pH 8.0-9.0, density 0.96-0.97g/cm3

参考稀释比

中小型铸件、锌合金稀释比：1:100~1:120；
大型复杂件、深腔模稀释比：1:80~1:100；
纯铝、低Si铝合金稀释比：1:50~1:60；

Reference dilution ratio

Small and medium-sized castings, zinc alloy dilution ratio: 1:100~1:120;
Large-sized complex castings, deep cavity dilution ratio: 1:80~1:100;
Pure aluminum and low-Si aluminum alloy dilution ratio: 1:50~1:60;



包装规格：20Kg或200Kg桶装
Package specification: 20kg or 200kg

⚠ 注意事项 Notes

保管注意:防冻防晒，室内保管
开封后注意密封盖好
保质期为原液密封状态12个月
应急处理:如若溅入眼睛,立即用水清洗

Storage caution: keep from frost and sunshine, store indoor, seal properly after opening
Expiry date is 12 months in the original liquid seal status
Emergency treatment: if splashed in eyes, immediately wash with water

自吸式喷砂枪

Self Suction Sandblasting Gun



自吸式喷砂枪喷嘴是采用复合耐磨材料高温高压烧结而成，硬度大于HRC93，密度大于2.50g/cm³，铝座采用耐磨铝合金固溶处理，硬度达到HB110，整把枪使用寿命大于1000小时；负压腔设计理想，喷出的砂刚劲有力，是目前比较理想的表面处理工具。



Self-suction sandblasting gun is made by sintering at high temperature and under high pressure with the composite wear-resistant materials, with the hardness stronger than HRC93. The aluminum seat is put under the solution treatment with the wear-resistant aluminum alloy with the hardness up to HB110, and the service life of the whole gun is more than 1,000h; The negative pressure cavity is designed extremely well, so that the blasted sand is powerful. This is currently the ideal surface treatment tool.

主要技术参数

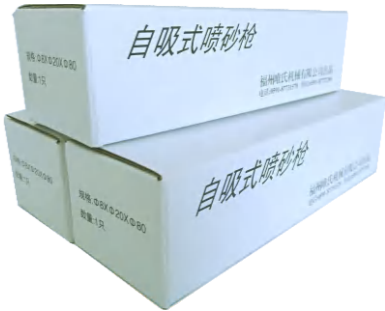


压缩空气	≥0.6MPa	喷砂距离	≤0.5m
耗气量	0.8-1.2m³/min	磨料粒度	≥46#
磨料提升高度	≤2.0m	喷砂量	3-10Kg/min
固定架外径	Ø45mm	进砂接头	Ø13.5mm
喷嘴内孔直径	Ø8mm	进气接头	Ø9.5mm

Main technical parameters



Compressed air	≥0.6MPa	Sandblasting distance	≤0.5m
Gas consumption	0.8-1.2m³/min	Abrasive material particle size	≥46#
Abrasive material lift height	≤2.0m	Sandblasting quantity	3-10Kg/min
Fixed bracket outer diameter	Ø45mm	Sand feeding adaptor	Ø13.5mm
Spray nozzle inner diameter	Ø8mm	Inlet connector	Ø9.5mm



铝合金熔剂
Multi-Function Flux

铝合金熔剂分为「打渣剂」和「复合熔剂」两种。主要成份由钠盐、钾盐、氟盐组成。具有除渣、除气、覆盖等性能，复合熔剂（即四元变质剂）兼具变质细化性能，是种万能熔剂。铝合金熔剂无烟无毒，符合国家环保要求，特别适合于压铸铝合金坩锅熔炼作业。

Aluminum alloy flux includes “fluxing medium” and “multi-function flux”. The main constituents include sodium salt, potassium salt and fluorine salt. It is capable of removing the residue and gas and providing the coverage. multi-function flux(that is four-component modifier) is also capable of alteration and thinning, and it is the universal flux. Aluminum alloy flux is smokeless and non-poisonous, complies with the national environmental protection requirements, and it is particularly suitable for the smelting during the die casting of aluminum alloy crucible.



包装规格：每小袋装1Kg，20Kg箱装
Package specification: 1kg per small bag, 20kg per carton

Storage notes

Keep it from moisture and avoid being under pressure in a long time. In case of any caking, it shall be crushed and then baked beside the furnace before the use,and does not affect the use effect.

保管注意事项

谨防受潮，避免长期受压，如果出现结块现象，粉碎后放置炉边烘烤后即可使用，不影响使用效果。



冲头润滑油
Plunger Lubricants

冲头油系列产品由耐高温合成油、极压添加剂制成；不含石墨，作业环境清洁；涂滴在压射头上，能迅速形成极佳的润滑膜，减少压射头、容杯、浇口套等之间摩擦磨损，有效提高冲头、容杯的使用寿命。适用于自动滴注或手工涂刷。

Series products of plunger lubricants are made with synthetic high temperature resistant grease and extreme pressure agents. Plunger lubricants does not contain graphite, thus ensuring clean environment. It is dropped on the plunger tip, capable of quickly forming excellent lubricating film, reducing the frictional wear between the plunger tip, shot sleeve and sprue bushing, thus effectively improving the service life of the plunger tip and shot sleeve. It is suitable for automatic dripping and manual application.



P-LB100 P-LB160

理化指标

外 观	色度(号)	运动粘度 (25℃)	开口闪点	倾点
琥珀色液体	4	1000±50 cSt	310° C	-8° C

包装规格	储存方式	保质期
18Kg彩桶包装	室内保管	3年
180Kg铁桶包装	室内保管	3年



Physical and chemical indexes

Appearance	Color number	Kinematic Viscosity (25℃)	Open flash point	Pour point
Amber liquid	Four	1000±50cst	310℃	-8℃

Package specification	Storage	Expire date
18Kg	Store indoor	3 years
200Kg	Store indoor	3 years

冲头润滑油滴注机 >>

Plunger Lubricant Drip Machine

滴注机应用优点

- 超有效润滑, 润滑成本是其它润滑方式的一半;
- 润滑剂用量少, 发气量少, 有效减少铸件内在气孔(特别氢孔);
- 可对容杯中的残留物进行吹气清理, 提高铸件内在品质;
- 滴注量可调, 不会在铸件表面留下斑点, 改善铸件涂装性能;
- 定点定量滴注润滑, 改善车间周边环境;
- 采用定点喷涂润滑, 成膜均匀, 有效润滑, 成倍延长冲头使用寿命。

1、Effective lubrication, the cost of lubrication is half that of other lubrication methods.

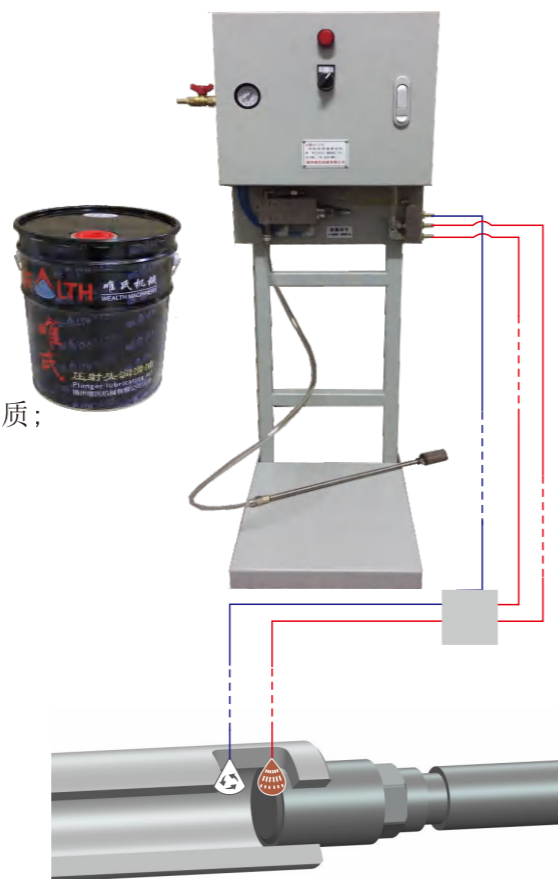
2、Less lubricant, low gas evolution, effectively reduce the inner porosity of casting (especially hydrogen stomata)

3、The residues in the solution cup can be blown away, improve the inner quality of casting.

4、Drop volume can be adjustable, no spot on the casting's surface, improve casting coating performance.

5、Fixed-point and quantitative dripping lubrication, improve the environment around the workshop.

6、Using the fixed-point spray lubrication, uniform coat and effective lubricating, the service life of the plunger tip is multiplied.



品质决定价值
细节成就未来

Quality Determines Value

Details Achieve The Future

LOOKING FORWARD TO COOPERATE WITH YOU.