

# 江苏威泽智能科技股份有限公司 Jiangsu Weize Intelligent Technology Co.,Ltd.

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Non-consumable Purification Filtration Advocator

无耗净化 | 创新过滤







# 创新科技 全情投入

我们将一如既往地致力于无耗材过滤设备的研发,我们认为开发符合环保节能理念、和高效率的节能产品永远是我们努力的方向。

We will continue to devote ourselves to the research and development of non-consumable filtration equipment. We think it is always the direction of our efforts to develop environmentally energy-saving and energy-efficient products.

#### 公司简介

江苏威泽智能科技股份有限公司是一家致力于机械加工净化过滤行业,集产品研发、制造、 销售于一体的专业型公司。

公司自 1998 年创建以来,经过近 20 年的不懈努力,逐渐拥有完善的过滤产品系列。其中体现高效率、环保的无耗材过滤系列产品更是威泽公司对行业巨大的贡献!

公司产品分两大主要板块:磨削加工类净化过滤产品系列广泛用于齿轮磨削过滤、铸件磨削过滤、硬质合金刀具磨削过滤以及其它类机械加工类磨削过滤。切削过滤类产品系列,广泛用于:汽车发动机制造行业、航空发动机制造行业、3C制造等领域!

多年来, 威泽公司凭借优秀的产品设计、精良的制造工艺、良好的服务品质得到广大用户的 认可!

公司有专业的数控钣金生产设备,如意大利数控激光切割机,数控剪板机,数控弯板机等。 公司位于风景秀丽的天目湖畔,省级工业区内。宁杭高速南出口距公司仅3分钟车程,宁杭 高铁站距公司仅8分钟车程,南京禄口国际机场距公司仅45分钟车程,地理位置十分优越,交 通便利。公司占地面积50亩,标准钢结构厂房28000余平方米,适合各类大型过滤系统制造。

## Company Profile

Jiangsu Weize Intelligent Technology Co.,Ltd.is a professional company dedicated to the mechanical processing, purification and filtration industry, integrating product development, manufacturing and sales.

Since its establishment in 1998, after nearly 20 years of unremitting efforts, the company gradually has a complete series of filtration products. Among them, the high-efficiency and environmentally friendly non-consumable filter series products are the great contribution of Weize to the industry!

The company's products are divided into two main sections: Grinding purification filter product series are widely used in gear grinding filters, castings grinding filters, carbide tool grinding filters and other types of machining grinding filters. The cutting filter product series are widely used in: automobile engine manufacturing industry, aero engine manufacturing industry, 3C manufacturing and other fields!

Over the years, Weize has been recognized by users for its excellent product design, sophisticated manufacturing technology, and good service quality!

The company has professional CNC sheet metal production equipment, such as Italian CNC laser cutting machine, CNC shearing machine, CNC bending machine and so on.

The company is located in the beautiful Tianmu Lake, a provincial-level industrial zone. The south exit of Nanjing-Hangzhou Expressway is only a 3-minute drive from the company, the Nanjing-Hangzhou high-speed railway station is only an 8-minute drive from the company, and Nanjing Lukou International Airport is only a 45-minute drive from the company. The geographical position is very superior and the transportation is convenient. The company covers an area of 50 acres, with a standard steel structure workshop of more than 28,000 square meters, which is suitable for the manufacture of various large-scale filtration systems.

# 系统化的 加工解决方案 是您最好的选择!

The systematic processing solution is your best choice!



# 齿轮磨床过滤系统

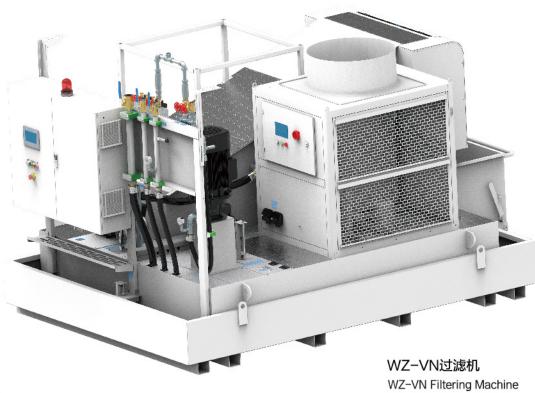


#### Gear Grinding Filtration System

应用特色

应用领域

WZ-VN过滤机功能布置



# **Product Features**

- 使用成本低 (耗材可反复使用约2年以上);
- 结构紧凑美观、超强的配合度以及承载性,可方便将液压系统制冷单元和油雾过滤器集成在过滤系 统上;
- 因采用连续过滤方式所以可以向磨床源源不断的提供清洁的磨削液,同时将过滤到的杂质干燥后形 成滤饼送入垃圾车内,整个过程中无需人工干预。
- Low using cost(The consumables can be repeatedly used for more than 2 years.),compact & nice construct, good adaptability and bearing.
- It can integrate the hydraulic system cooling unit and oil mist filter onto the filtration system.
- It can supply the clean grinding oil continuously to the grinder by continuous filtration. It can send the filtered dry filter cake to the dirt cart without manual intervention.

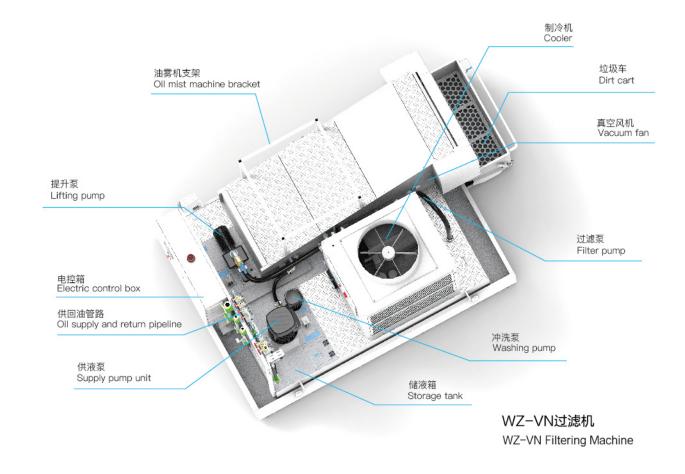


#### **Application Field**

WZ-VN过滤系统广泛应用于各类磨削场合,特别是CBN砂轮对成型齿轮的磨削是此 过滤机的主要应用领域之一。

WZ-VN filtration system has been widely used for all kinds of grinding occasions, especially mainly used for the CBN grinding wheel grinding to the forming gears.

## WZ-VN Filtering Machine Functional Layout

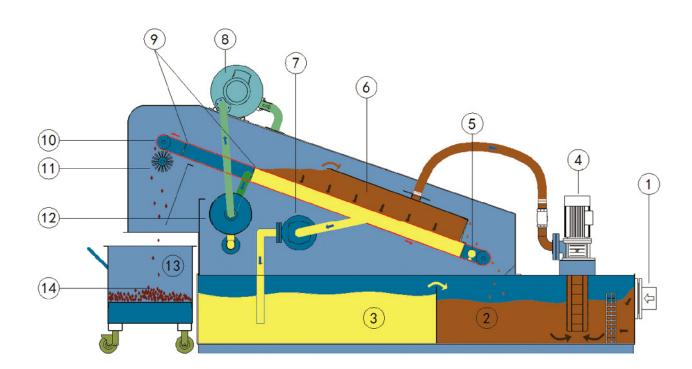




WZ-VN示意图

过滤效果

技术参数



# WZ-VN Sketch

- 1、回油口 Oil return port
- 2、污油箱 Sump tank
- 3、净油箱 Clean tank
- 4、提升泵 Lifting pump
- 5、冲洗喷管 Flush nozzles
- 6、污油过滤箱 Sump filter box
- 7、抽吸泵 Suction pump

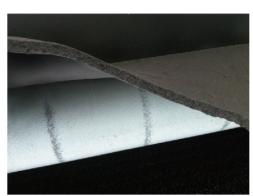
- 8、真空风机 Vacuum fan
- 9、干燥区 Drying area
- 10、传动滤布 Driving filter cloth
- 11、清洁刷 Cleaning brush
- 12、油气分离器 Oil-gas separator
- 13、垃圾回收车 Dirt cart
- 14、滤渣 Leached residue

## 4

## Filtering Effects

系统通过抽吸泵强大的抽吸力不断的将脏油透过滤布而 形成连续的过滤。在完成过滤的同时滤渣在滤布表面被截留, 当滤渣形成一定的厚度时在滤布表面产生负压,在达到一定 负压度时滤布自动前行,并在干燥区干燥处理后形成滤饼,最 终被集中收集在垃圾回收车内。整个过程为程序自动控制,系 统可加装冷却控温装置。

The system continuously penetrates the dirty oil into the filter cloth by the strong aspirating ability of the aspirating pump to form the continuous filtration. At the same time of filtration, the dirt will be retained on the filter cloth surface. When the dirt form the certain thickness, the negative pressure will appear on the filter cloth surface. And if with the certain amount of negative pressure degrees, the filter cloth will go forward automatically and form the filter cake in the drying station after drying treatment and finally collected in the dirt cart. The whole process will be automatic and can be added with the cooling temperature control devices.





# **Technical Parameter**

型号/Model	WZ200VN	WZ300VN	WZ400VN	WZ600VN	WZ800VN	
设计流量(L/min) Design flow(L/min)	200	300	400	600	800	
滤纸幅宽(mm) Filter paper width(mm)	995*4150	995*5150	995*6150	2-995*5150	2-995*6150	
参考尺寸L*W*H(mm) Reference dimensions (mm)	2500*1800*1950	2500*2200*1950	3500*2000*1950	2800*2200*2650	3500*2200*2650	
过滤介质 Filtering medium	磨削液 Grinding oil	磨削液 Grinding oil	磨削液 Grinding oil	磨削液 Grinding oil	磨削液 Grinding oil	
过滤杂质 Impurities Filtered	CBN砂轮灰 CBN grinding wheels'gray	CBN砂轮灰 CBN grinding wheels'gray	CBN砂轮灰 CBN grinding wheels' gray	CBN砂轮灰 CBN grinding wheels'gray	CBN砂轮灰 CBN grinding wheels'gray	
过滤精度(μm) Filtering precision(μm)	20	20	20	20	20	



现场应用





齿轮磨削集中过滤现场 Centralized filtering system for gear grinding machine

# 球墨铸铁 磨削专用过滤系统



Nodular Cast Iron Grinding Special Filtration System

方案1: 无耗材过滤系统预涂方式

制冷接口 Cooling Interface

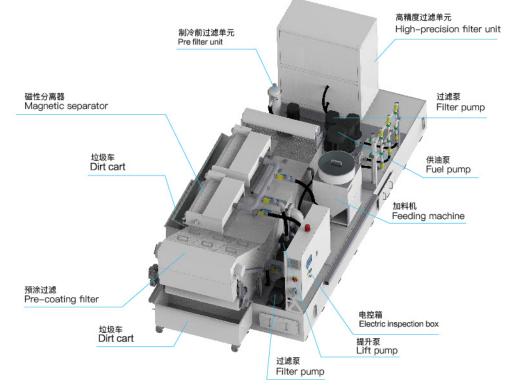
方案2: 滤纸过滤系统预涂方式



#### Especially suitable for rotor grinding

特别适用于转子磨削

Option one:Pre-coating Filtering Paper
Option two:Non-consumable Pre-coating





过滤效果

产品特色

助滤剂预涂



### Filtering Effects

WZ-VA系统是一款由我公司专门研发的应用于球墨铸铁磨削的专用过滤系统。特别针对目前空压机市 场,球墨铸铁转子的磨削。

VZ-WA filtration system is specially developed by our company for the ductileiron grinding of the special filtration system. Adopting current pre-coating aid filtering reagents method, it is especially used for ductile iron rotor grinding of the air compressor.







#### Product Features

- 1、该系统应用目前国际前沿技术,通过添加助滤剂从而实现高精度的过滤,使得在铸件磨削过程中产 生的石墨颗粒得到吸附过滤。
- 2、该系统紧凑美观,超强的整体性,使得庞大的系统占地面积小,更利于现场设备的摆放。
- 3、该系统高度自动化,从添加助滤剂到滤渣的排除,整个过滤过程无需人工干预。
- 4、该系统采用高精度水冷机,通过板式换热器对磨削油的高精度冷却,控温精度达到±0.5度,保证加 工环境恒温。
- 1. The system adopts the international advanced technology, to achieve highprecision filtration by adding filtering aid reagents. Absorbing and filtering the graphite particle generated during the casting grinded process.
- 2. The system is compact and beautiful. The super integrity makes the huge system covering a small area and more conducive to place the equipment on the site.
- 3. The system is highly automated, from the addition of filter aid reagents to the removal of residue. The entire filtration process works without human intervention.
- 4. The system adopts high-precision water-cooled machine, through the plate heat exchanger achieving high-precision cooling on the grinding oil. The temperature controlled accuracy can reach ±0.5℃ to ensure the processing environment temperature.



#### Pre-coating aid filtering reagents

助滤剂预涂方式是目前国际上过滤石墨颗粒效果较好的方式。 将助滤剂加入加料机,通过泵打等方式使助滤剂和脏油充分 接触,再释放至过滤设备充分吸收过滤石墨颗粒。

Pre-coating aid filtering reagents method is a better way to filter graphite particles in the world now . The aid filtering reagents is added to the feeder then contacting the dirty oil fully by means of pump or the like. The mixture is released to filtering device after-wards and the graphite particles are absorbed and filtered sufficiently.







全自动加料机 Full automatic charging machine



现场应用





转子(球墨铸铁)磨削专用过滤系统 Specialized Rotor(Ductile Iron) Grinding Filtration System

# 完美的切削液净化过滤产品



Perfect cutting fluid purification and filtration products

设计原理

产品特色

## Design principle

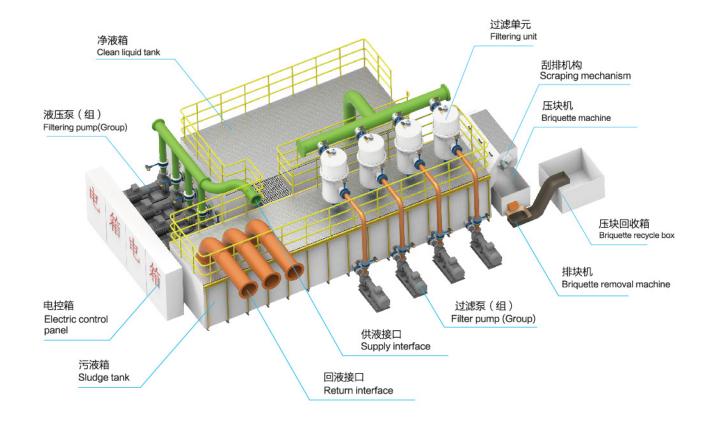
采用独特的反冲再生原理,没有耗材。特别适用于铝加工行业。

Adopting unique back flushing regeneration principle without consumable material. Especially suitable for aluminum processing industry.

#### Product features

过滤单元寿命最长可达10年以上,是替代传统过滤的完美产品。

Filter unit's life up to 10 years or more. It is the perfect alternative to traditional filtration products.





无耗材集中过滤方案构成

切削液无耗材集中过滤方案



#### No consumable filtering scheme

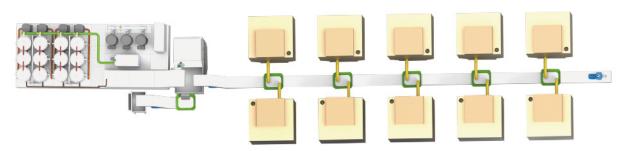
无耗材过滤方案由一体式排屑系统→全自动压块机→压块输送机→排屑车→无耗材集中 过滤系统。可根据客户不同的工况及对自动化程度的要求来进行设备的选配,使工厂净化系 统实现自动化。

No consumable centralized filtration system consists of: Integrated chip removal system; Automatic briquette machine; Briquette conveyors; Briquette cart; No consumable centralized filtration system According to customer's different processes and the requirements to select equipment to realize the factory purification system automatically



# Cutting fluid non consumable centralizde filtering scheme

布局方案1 Layout one



布局方案2

可采用架空走管方式,避免管道凌乱,节省空间。

Layout two

Could install pipelines overhead to avoid pipelines mess and space



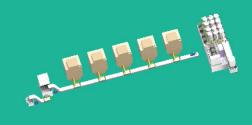












一体式排屑系统

Integrated chip removal system

全自动压块机 Automatic briquette machine **压块输送机**Briquette conveyors

排**屑车** Briquette cart

无耗材集中过滤系统 No consumable centralized filtration system 车间布局示意图 Workshop layout

#### 切屑压块的优点

洁净的切削液对加工的益处

切屑压块自动处理简介

无耗材冷却液过滤系统的现场应用



#### Advantages of squeezed chip

- 1、减少资源浪费。
- 2、减少放置场所的面积。
- 3、降低人工成本。
- 4、减少机床后部漏点,防止切削液(油)的外漏。切削液(油)实现回收再次利用。
- 5、工厂的环境得到净化,切削、切削液的腐败及外漏等得到控制,美化车间使工人工作环境更优异。
- 1. Reducing the waste of resources.
- 2. Reducing the area of goods placement.
- 3. Reducing labor cost.
- 4. Making machine tool around clean, preventing leakage of cutting fluid (oil), realizing cutting fluid (oil) recycling.
- 5. Purified the factory environment, preventing cutting fluid deterioration and leakage, beautifying the workshop, improving the working environment.



# Benefits for the processing by clean cutting fluid

- 1、快速去除冷却液里面的固体颗粒物(20μm以上)及杂油(小于1%)。
- 2、减少废液排放费用。
- 3、大大延长刀具及砂轮的使用寿命。
- 4、改善工人的工作环境。
- 5、改善加工质量(由干净的冷却液带来)。
- 1. Quickly removing solid particles (20 µ m or more) and impurity oil (less than 1%) from the coolant.
- 2. Reducing waste discharged cost.
- 3. Greatly extending the life of the tool and the grinding wheel.
- 4. Improving the working environment.
- 5. Improves processing quality by clean coolant.



#### Brief introduction to automatic process of squeezed chip

- 1、机床冷却液夹带杂质自然回流至一体式排屑系统。
- 2、固液进入排屑系统后透过渗漏孔,将固液进行初步分离。
- 3、固体随排屑系统前进进入压块系统,液体通过泵打至过滤系统集中处理。
- 4、切屑输送至压块机进行全自动化的压块,并输出至垃圾车存放。
- 5、脏液至过滤系统再次进行高精度的固液分离 (精度20 µ m左右), 使得切削液的洁净程度进一步提升。
- 6、洁净的冷却液经过去浮油、杀菌、自动配比集中供油至客户机床使用。
- 1. Machine tools' coolant with impurities naturally flowing to the integrated chip removal system.
- 2. Solid solution flowing into the chip removal system ,realizing the initial separation of solid solution through leakage hole.
- 3. Solid particles following the chip discharged system into squeezed chip system, the liquid flowing into the filter centralized processing system through pump.
- 4. The chip is fed to the squeezed chip machine for fully automated squeezed then stored in the garbage cart.
- 5. Again the filtration system implementing high–precision solid–liquid separation (accuracy  $20 \mu$  m) to the dirty liquid, further enhancing the cleanliness of the cutting fluid.
- 6. With removed the floating oil and sterilized, the clean coolant is supplied to the customer's machine tools afterwards by automatic ratio way.



#### Site Application



# 真空过滤系统



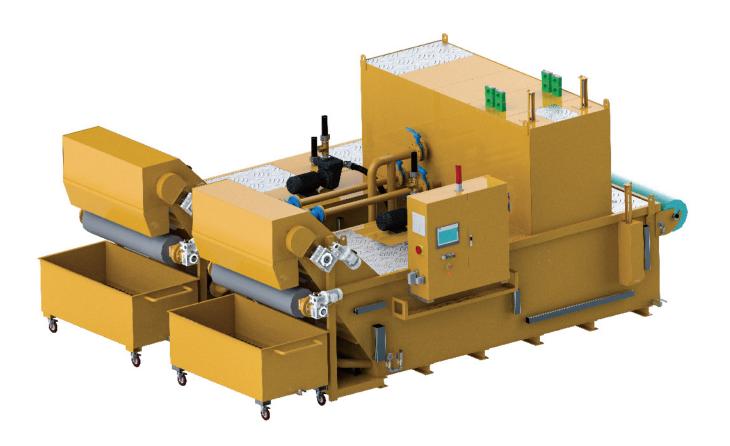
Vacuum Filtration Cooling System

WZ-V示意图

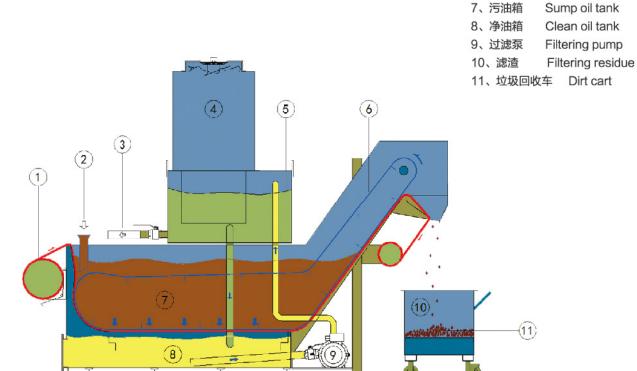
技术参数

WZ-V真空过滤冷却系统适用于各类磨床如:齿轮磨、外圆磨、平面磨、大型加工中心等场合,适用于油性及水溶性冷却液。此过滤系统可以采用单机过滤和多机集中过滤两种方式,公司可以提供整厂规划设计和集中过滤方案。

WZ-V vacuum filtration cooling system is used for all kinds of grinders such as gear grinder, cylindrical grinder, surface grinder, large machining center and etc.lt is suitable for the oily and water soluble cooling liquid. It can be used for the single machine filtration, multiple machine concentrate filtration design.







1、过滤纸带 Filter paper

4、制冷机

6、刮板链

5、净冷油箱

Return interface

Supply interface

Scraper chain

Clean cooling oil tank

Cooler

# Technical Parameter

型号/Model	WZ300V	WZ500V	WZ1000V	WZ4000V	WZ8000V
设计流量(L/min) Design flow(L/min)	300	500	1000	4000	8000
滤纸幅宽(mm) Filter paper width(mm)	1300	1400	1500	1800	2200
参考尺寸L*W*H(mm) Reference dimensions (mm)	3700*1700*2600	4500*1950*2700	7200*2100*2800	13000*2500*2800	18000*2800*3000
过滤介质 Filtering medium	切削液 冷却油 Cutting fluid,Coolant oil				
过滤精度(μm) Filtering precision(μm)	10-20	10-20	10-20	10-20	10-20

WZ-V真空过滤机功能布置1

WZ-V真空过滤机功能布置2

WZ-V系列切屑液过滤控温装置从单机配套到集中处理,可按用户要求将过滤、冷却、除油、高压供液、油雾收集、排污清理等多功能部件组合在一起,组成不同的过滤系统,适用各种加工工艺对各种冷却液的不同处理要求,并长期供给各种性能优良的配套滤材。

集中过滤系统的供液和回液大体有三种方案:一是全部架空走管;二是架空供液,地沟回液;三 是供液管和回液管全部都在地沟中,空间没有管道。方案的选择取决于用户车间厂房条件和切屑性质, 维泽会按用户的具体情况做出合理设计。

WZ-V series cutting liquid filtration temperature control system can combine the filtration, cooling, degrease, high-pressure oil feed, oil & mist collection, pollution discharge function together to form the different filtration systems, suitable for the different requirements that all kinds of the process technology may have to the different cooling liquid. And we will supply all kinds of superior matching filter material.

There are three plans for the liquid feed and liquid return of the centralized filtration system, one is complete overhead pipe laying, second is the overhead liquid feed, trench liquid return, third is the liquid feed & return pipes all in the trench without the pipes in the space. The choice of plans will be determined by the customer's workshop conditions and cutting properties and we will make the suitbale design accordingly.



## 9

#### WZ-V Vacuum filtration system functional layout 2





威泽最先进的全自动真空过滤系统可为单机床或多机床提供大到 9000L/min,过滤精度 达到 10um 的切屑液处理。

威泽从过滤方式、系统布置、供液方式、回液方式、切屑液配置、除油灭菌、净化再生、 温度控制及滤渣处理等各方面为用户提供系统设计、设备制造和现场安装调试等服务。

Our most advanced fully automatic vacuum filtration system can supply up to 9000L/min and filter precision 10  $\mu$  m cutting liquid treatment for the single machine or multiple machines.

We can provide customers with system design, equipment manufacturing, on—site installation and commissioning services from the aspects of filter methods, system layout, liquid feed method, liquid return method, cutting liquid set, degreasing&sterilization, purification& recycle, temperature control, filter residue treatment and so on.

# 刀具磨床过滤系统



#### **Tool Grinding Filtration System**

产品特色

过滤步骤

#### 应用领域 Application Field

硬质合金刀具磨削冷却过滤、超硬钻石刀具磨削冷却过滤等场合。

Application in grinding cooling filtration occasions especially for carbide cutting tools, super-hard diamond tools etc.

#### 过滤精度 Filtration Precision

可提供最高至1微米  $(1 \mu m)$  的绝对精度过滤。 The filtration precision can be up to  $1 \mu m$ .

#### 适用液体 Suitable Liquid

油性冷却液。

Oil-based cooling liquid.

#### 适用刀具磨床 Suitable tool grinder

任何品牌的刀具磨床。

Any brand of cutter grinder.





威泽最新型的 WOFNA 系列刀具 磨床过滤系统,可为单机或多机提供过 滤,过滤精度最高可达 1 微米 (1um)。

The newest WOF-N-A series tool grinder filtration system can supply the filtration for the single machine or multiple machines and the filter precision can be up to  $1\mu m$ .



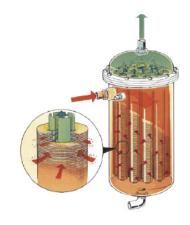
#### **Product features**

威泽公司的 WOFNA 过滤系统采用模块式设计,系统在用户需要的情况下能够通过加装滤芯加大过滤量来为更多磨床供油。同时整台过滤系统采用威泽智能的第三代设计成果,已经将制冷单元、过滤单元、磁性过滤单元等组合设计在一起,其结构紧凑、合理、高效同时维修方便,整台设备部件无外露,所有设备均在一体式机箱内运行,干净整洁且噪音极低。通过 WOFNA 高精度过滤,油品清洁度达到 1pm, 在有效延长油品使用寿命的同时减少了细微硬质合金对机床的伤害,大大降低了机床的维护成本。

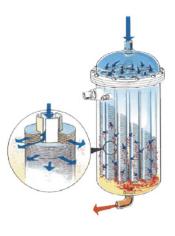
The WOF-N-A filtration system adopts the modular design. If necessary, the system will feed the oil for more grinders by adding the filter cartridges and increasing the filter capacity. And the whole set of filtration system adopts latest the 3rd design achievements and it has combine the cooling unit, filtration unit and magnetic filtration unit together with the compact design, high efficiency and easy maintenance. The whole set of equipment is operated in the integrative machine without any explosure to the outside, and it is tidy, clean and with little noise. The oil cleanliness precision can reach 1µm by the WOF-N-A high precision filtration and the system can effectively extend the oil service life and reduce the harm that the tiny hard alloy may cause to the machine tools, thus to reduce the maintenance cost of the machine tools greatly.



## Filtration Steps







1 过滤阶段

Filtering process

2 脏油排空

Dirty oil discharging

3 反冲排渣

Back flushing discharging

单机过滤系统

集中过滤系统

选型配置



#### Single Filtration System

Single Filtration System: particularly suitable for customers with few machine tools. Layout simple,less occupied space.

单机过滤系统:特别适合机床数量较少的客户群体。布局简单,占地面积小。



# 3

#### Centralized Filtering System

saving system cost;saving energy consumption;more handling capacity;higher oil temperature control precision. Workshop layout and arrangement more easy. Equipment placed more reasonable and beautiful;production management more convenient.

集中过滤系统:节省系统配套成本,节省能耗,处理量大,油温控制更精密。便于车间统一布局统一规划。设备摆放更合理,美观,便于生产管理。





## Type Selection

型号 Model	滤桶数量(只) Filter Bucket Number	过滤流量 (L/min) Filtering Flow	过滤精度 (μm) Filtering Precision	供油压力 (bar) Supply oil pressure	自动排污机 Automatic tungsten discharging Machine	循环容积 (L) Circulation volume	系统电力 (kW) Power system
WOF-N-A-1S	1	100	1	3-6	无 (Nothing)	400	3
WOF-N-A-1	1	140	1	3-15	无 (Nothing)	500	4
WOF-N-A-2	2	280	1	3-15	无 (Nothing)	700	8
WOF-N-A-2-G	2	280	1	3-15	WZG100	800	8
WOF-N-A-3	3	420	1	3-15	无 (Nothing)	1100	11
WOF-N-A-3-G	3	420	1	3-15	WZG100	1200	11
WOF-N-A-5	4	560	1	3-15	无 (Nothing)	2200	18
WOF-N-A-5-G	4	560	1	3-15	WZG100	2400	19
WOF-N-A-10	6	840	1	3-15	无 (Nothing)	2800	23
WOF-N-A-10-G	6	840	1	3-15	WZG100	3000	24
WOF-N-A-15	8	1120	1	3-15	无 (Nothing)	3500	28
WOF-N-A-15-G	8	1120	1	3-15	WZG300	3800	29
WOF-N-A-20-G	12	1680	1	3-15	WZG400	5400	36
WOF-N-A-30-G	16	2240	1	3-15	WZG500	7200	48





# 高速钢刀具磨削过滤系统



High speed steel cutter grinding filtration system

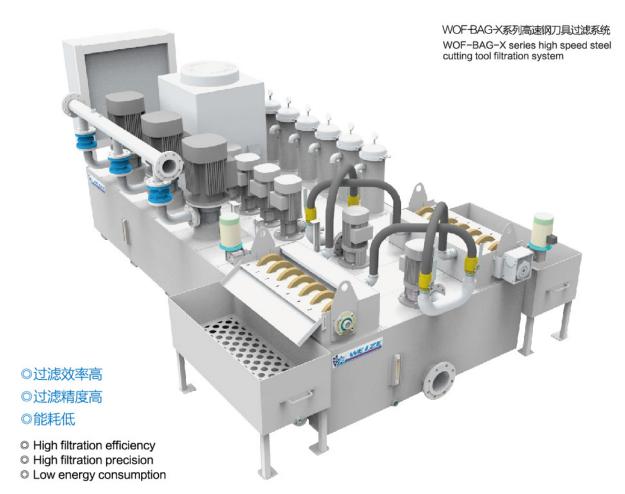
应用现场

高速钢过滤效果

WOF-BAG-X高速钢过滤机功能布置

针对高速钢刀具研磨的特性,威泽智能经过多年的研究现推出高效率的过滤系统:WOF-BAG-X系列过滤系统在推出的第一时间就得到用户一致好评!

According to the specific characteristics of the high speed steel tool grinder,we have produced the high efficiency filtration system after many years of research. And our products have received the consistent high praise by the customers in the beginning.



经过多年潜心研究,针对普通过滤系统磁性过滤机效率不高的问题,我公司专门研发了独特的磁性过滤单元。此过滤单元能够将磨削产生的杂质大部分滤除,后续经过独特的终端过滤单元过滤后,油品清洁度能够达到3-5m,且电力消耗低于其它类过滤系统达40%以上。

Main advantages: High filtration efficiency, high filtration precision, low consumption. After many years of research, we have specially produced the unique magnetic filtration unit as for the problem of low efficiency of the general filtration system. And the filtration unit can filter most of impurity and the oil cleanliness can reach 3–5m after unique terminal filtration and the consumption will be lower than the 40% of power consumption of the other filtration system.



#### Site Application



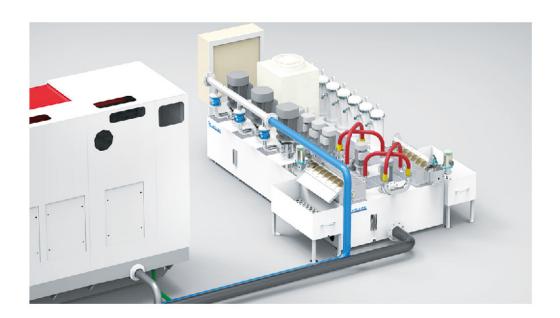


# High speed steel filtering effect





WOF-BAG-X High speed steel filter functional layout



# 其它过滤系统



#### Other filtration system

WZ-G重力式纸带过滤机

WZ211系列磨削油

磁性过滤机



#### WZ-G gravity type paper filter

WZ-G重力式纸带过滤机是平网托纸型重力式过滤的基本形式,过滤时托网和滤纸形成盆型过滤面,切削液靠自身重力渗透过滤纸达到过滤效果。此种形式过滤一般适用于300L/min以下的中小流量过滤场合。当滤纸表面堆积一定数量的污垢时液位自然升高将浮球抬起而触发走纸机构工作。

WZ-G gravity paper filter is the basic form ofthe grid-type gravity filter. Filter net and filter paper form a basin-type surface. The cutting fluid penetrates the filter paper by its own gravity to achieve filtering effect. This type of filter is generally applicable to 300L / min below, that is, the small flow filtering occasions. When the filter paper surface is accumulated of a certain amount of dirt, the liquid level rises naturally to lift the float and trigger the paper working.





#### WZ211 series grinding oil

WZ211-A合成磨削油无色、无味,对环境及人体无伤害。适用于高速钢及超硬刀具磨削,具有流动性好、散热性好等优点。粘度:8cp(40℃),闪点:160℃。

WZ211-B半合成磨削油无色、无味,对环境及人体无伤害。粘度: 4.5cp (40°C),闪点: 145°C。

WZ211-A synthetic grinding oil, colorless and tasteless, harmless to environment and human body. The utility model is suitable for grinding high speed steel and ultra hard cutting tools, and has the advantages of good fluidity, good heat dissipation, etc.. Viscosity: 8cp (40 DEG C), flash point: 160 DEG C.

WZ211-B semi synthetic grinding oil, colorless and tasteless, harmless to environment and human body . Viscosity:  $4.5\,cp$  (40 DEG C), flash point: 145 DEG C.





#### Magnetic filter

可用于高速钢刀具磨削场合作为前置过滤 As pre-fitering,this filter can be used for high speed steel tool grinding/cutting field.