

# DUST REMOVAL

HIGH SPEED | HIGH QUALITY | HIGH INTELLIGENCE

## 除尘系列

DUST REMOVAL SERIES



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/ 博大数控 / BODACNC

**BDLT**  
series

Cutting Fume Purification Device  
切割烟尘净化器

### 产品概述 | DESCRIPTION

数控等离子切割机在进行过程中会产生大量的烟尘，严重污染环境，损害操作员工的身体健康，因此，必须采取局部通风及治理措施，将烟尘、粉尘等予以净化处理，使生产环境达到国家有关标准。我公司生产的BDLT系列切割烟尘净化器，集国内外先进技术，除尘效果好，性价比高。

CNC plasma cutting machine will generate plenty of dust when running, thus it will make serious pollution and health damage to operators. Therefore, it's necessary to adopt partial aeration and control measures to purify smoke and dust so that the production environment can reach national related standard. The BDLT series cutting fume purification device which produced by our company combined with the advanced technology at home and abroad can offer the good dust remove effect and high price/performance ratio.



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系统采用模块化设计，由旋风除尘器、主过滤器、风机箱和控制系统四大部分组成。  
This system adopts the modular design. It is composed of four groups which are whirlwind dust collector, main filter, blower box and control system



### 旋风除尘器 WHIRLWIND DUST COLLECTOR

作为初级过滤模块，利用离心力有效去除烟尘空气中的大颗粒物。免除其对滤筒的撞击而降低其使用寿命。  
As a primary filter module, it removes the large fume particulate matter effectively by using the centrifugal force, and avoids the impact of filter cartridge to reduce the service life.

### 风机箱 BLOWER BOX

BDLT使用的所有风机采用先进的机翼状叶片，利用涡轮增压原理，在同等吸风量的情况下能产生更强的吸风压力。风机经过减震处理，机箱内部装有吸音材料，静音效果好。  
All BDLT blowers adopt advanced wing shaped blade and turbo principle, which can produce the stronger suction pressure under the same air suction quantity. All blowers adopt anti-shock treatment and sound absorbing material has been used in it to guarantee the muting effect.

### 主过滤器 MAIN FILTER

有效完成烟尘有害物质的分离，利用模块组合拼装联接为“4000，6000，9000，12000，16000”等风量主体。内部装配有分离挡板用来进一步降低大颗粒物质的流速使其直接掉入粉尘收集箱从而避免进入滤筒区，提高滤筒寿命。滤筒反吹装置来清洁滤筒本身。使粉尘无法在筒表面的任何一个位置堆积而影响筒的通风量；滤筒采用覆膜聚酯过滤材。

It can separate the harmful substances from the dust effectively, and assembly combine to the volume machine 4000, 6000, 9000, 12000, 16000 etc by the module combination. The filter equips separation baffle internal which is used to reduce the flow speed of the large particles further and make it fall into the dust collecting box directly to avoid entering into the filter cartridge area then improve the life time of the filter cartridge. The filter cartridge reverse-blow device cleans the filter cartridge, and makes the dust not pile up on the surface of any one site of the filter cartridge to affect the ventilation quantity of filter cartridge. The filter cartridge adopts the coated polyester filter material.

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控制系统图片待提供

BDLT  
控制系统 BDLT CONTROL SYSTEM

BDLT主机拥有PLC控制系统。净化系统的所有运作都是由一个现代化的数控程序来进行控制和监视。所有的操作数据再通过一个镀铂的按键面板进行设置，并在一个显示器上出现。该系统可自动监控设备的运行状态，对设备异常及故障具有自诊断功能，并自动显示预警和故障信息。

This control system uses the PLC integrated control. All operations of the purification system are controlled and monitored by a modern NC program. All operating data are then set via a platinum-plated button panel and appears on a display. Meanwhile, the system can monitor the running state of the equipment automatically. It has the equipment abnormality and fault self diagnostic function! and can display warning and information automatically.

## 基本配置 | BASIC CONFIGURATION

| 名称 Description   | 4000  | 6000        | 9000        | 12000        | 16000        |
|--|---|-------------|-------------|--------------|--------------|
| 高效滤筒除尘器<br>High efficiency filter cartridge dust collector | BDLT04-3L   | BDLT06-6-FX | BDLT09-9-FX | BDLT12-12-FX | BDLT16-18-FX |
| 旋风式预处理器<br>Whirlwind preprocessor                          |   | BDXF-φ700   | BDXF-φ800   | BDXF-φ700S   | BDXF-φ800S   |
| 吸风滑动组件<br>Suction sliding components                       | 600×300×250(mm)                                   |             |             |              |              |
| 吹风装置<br>Blowing device                                     | 离心吹风小车 Centrifugal blowing trolley                |             |             |              |              |
| 密封橡胶板<br>Sealed rubber sheet                               | 250×3(mm)   |             |             |              |              |
| 滑动风道<br>Sliding air channel                                | 300×400(mm)                                       |             |             |              |              |
| 配套风管及组件<br>Matched air channel and accessories             | 3mm板或0.8镀锌管<br>3mm plate or 0.8mm galvanized pipe |             |             |              |              |

## 主体件参数 | BODY PART PARAMETERS

| 项目 Item                    | 4000   | 6000   | 9000  | 12000     | 16000     |           |
|----------------------------|--|--|---|-----------|-----------|-----------|
| 主体<br>Machine<br>body      | 结构形式<br>Structure type   | 一体式设计, 室内安装<br>Integrated design indoor installation | 分体式设计, 室内安装<br>Divided design indoor installation |           |           |           |
|                            | 处理能力 Processing capacity   | 4000m³/h   | 6000m³/h  | 9000m³/h  | 12000m³/h | 16000m³/h |
| 滤筒<br>Filter<br>Cartridge  | 数量 Qty   | 3支 pcs   | 6支 pcs  | 9支 pcs    | 12支 pcs   | 18支 pcs   |
|                            | 滤筒材料 Filter cartridge material   | 进口覆膜 Imported coating                                |   |           |           |           |
| 风机箱体<br>Fan<br>cabinet     | 滤筒过滤面积 Cartridge filtering area  | 12m²/支 pc  |   |           |           |           |
|                            | 风机功率 Fan power   | 5.5KW  | 7.5KW   | 11KW      | 18.5KW    | 22KW      |
|                            | 风量 Air volume  | 4000m³/h   | 6000m³/h  | 9000m³/h  | 12000m³/h | 16000m³/h |
| 预处理器<br>Preprocessor       | 消音器 Silencer   | 380×380×1300   | φ670-1500   | φ670-1500 | φ670-1800 | φ670-1800 |
|                            | 旋风除尘器<br>Whirlwind dust collector  | 脉冲 (空气) Pulse (air)                                  |   |           |           |           |
| 清灰方式<br>Deashing<br>method | 工作方式 Working way   | 脉冲 (空气) Pulse (air)                                  |   |           |           |           |
|                            | 空气参数 Air parameter   | 0.3-0.5MP, 无油无水 No oil and no water                  |   |           |           |           |
|                            | 脉冲阀 Pulse valve  | 进口 Imported  |   |           |           |           |
| 运行形式 Run way               | 清灰采用在线、离线、手动三种形式 It adopta online offline manual three momdes for deashing |  |   |           |           |           |