

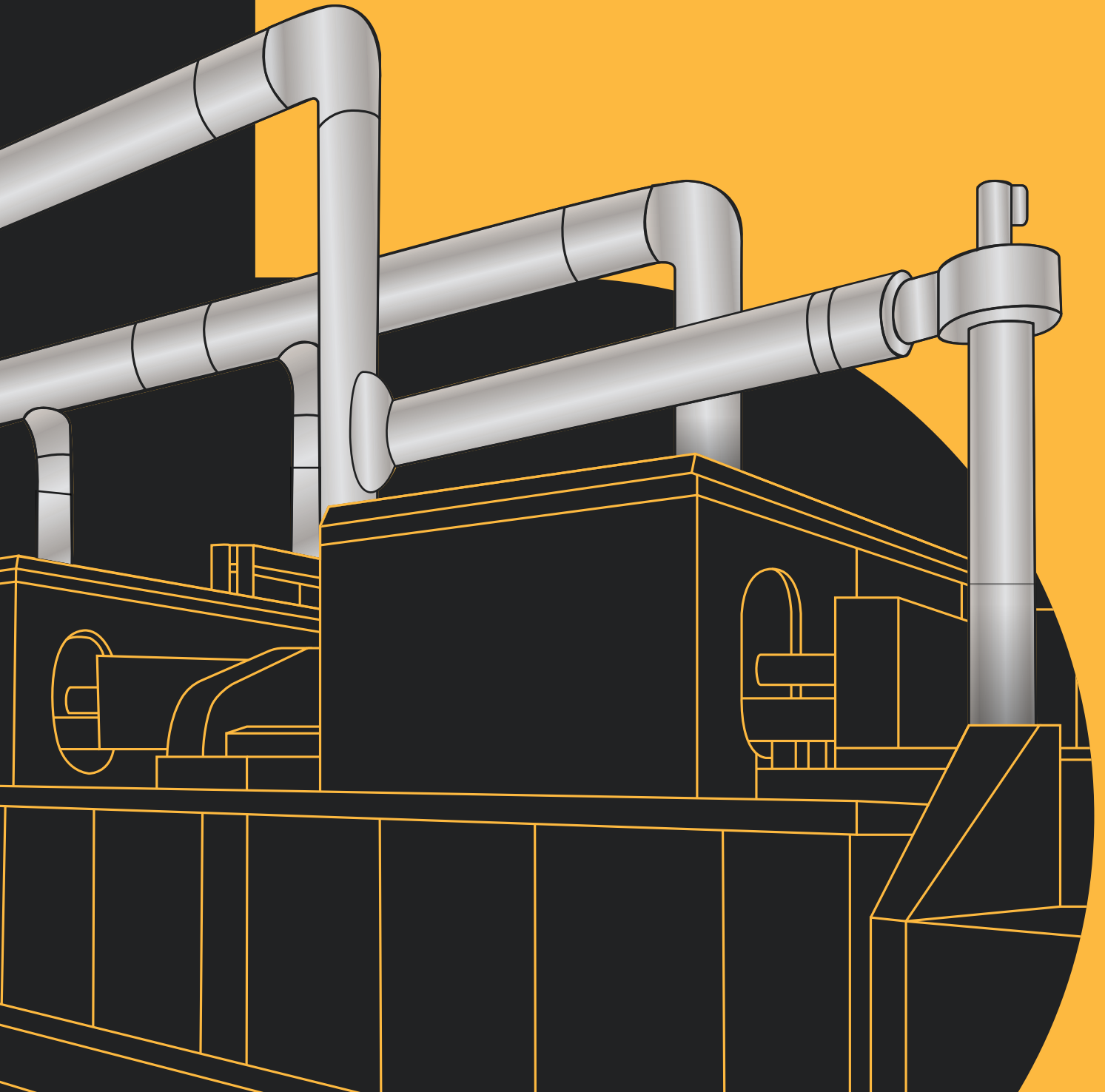


BAUTAI

| Oil Mist Filtration | Water Treatment | Wet & Dry Dust Collection |
| Integrated Equipment & System Solutions |

PRECISION STANDALONE FILTRATION SYSTEMS

**Turnkey Plant-wide Environmental
Purification Solutions**



Modular Manufacturing Capability

Applications:
Oil Mist Filtration
Fume & Dust Extraction
Fluid Management
Air Pollution Control

Solution Models:
Standalone Equipment
Full-plant Planning

Value Proposition:
In-House R&D Modules + Precise Custom Selection + Integrated Engineering Delivery

Core Values

- Production Line Protection (Machine-side): Source-based air pollution control with precise system selection or customized workstation solutions.
- Facility & Office (Environmental Purification): Addressing air pollution leakage in office spaces adjacent to production lines by planning air purification systems and facility-wide airflow circulation to improve indoor air quality.

Company Profile

From Standalone Equipment Manufacturing to System Integration

Bautai Co., Ltd. has been dedicated to environmental purification equipment for many years, focusing on the development and manufacturing of high-efficiency, energy-saving, and sustainable technologies. With strong modular manufacturing capabilities, our solutions are widely applied across diverse machining environments, supporting the concept of zero consumables and eco-friendly operations.

We provide both Standalone equipment and Turnkey plant solutions, enabling flexible and phased implementation based on production scale and budget. Starting from upstream process optimization and source pollution control, our offerings extend to environmental protection systems and customized centralized filtration solutions, including dry and wet dust collection for large-scale facilities. By continuously enhancing application depth, Bautai is committed to achieving sustainable operations and advancing green smart manufacturing.

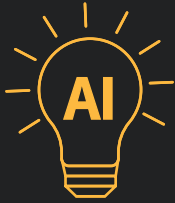
Turnkey Plant Solutions

Creating Efficient and Clean Modern Facilities

Bautai provides comprehensive integrated solutions for pollution control, addressing a wide range of industrial challenges. Whether dealing with large volumes of oil mist, odors, and dust generated in traditional manufacturing, or handling high-value fine particles and VOCs from advanced industries such as energy, electronics, AI, and aerospace—including materials like precious metals, graphite, quartz, and fibers—we deliver precise and reliable environmental solutions.

Our approach covers machine layout planning, workflow optimization, and airflow dynamics, ensuring stable machining conditions for high-precision manufacturing while enhancing overall operational efficiency and environmental performance.

Advantages & Competitiveness



AI-driven R&D
Patent separation technology integrated with smart monitoring modules.



85% Energy-saving
Zero consumables, reduced maintenance cost optimization.



Sustainable Green Innovation
Eco-friendly, low-carbon, and energy-saving solutions.

One-stop Comprehensive Service



1
On-Site Inspection & Risk Assessment



2
Whole-plant System Evaluation and Planning



3
Solution Proposal & Quotation



4
Engineering Construction & Management



5
System Testing, Commissioning & Handover



6
Long-term Maintenance & Support

In-house R&D Modules

Independent design capabilities with modular architecture for full control over core technology.

Precision Selection & Customization

Optimal configuration tailored to specific machining conditions for maximum efficiency.

Integrated Engineering Delivery

Expertise in engineering integration and ductwork design, from single units to centralized systems.



China Patents

Japan Patents

Taiwan Patents

Energy Saving Label
Gold Award

Energy Saving Label
Silver Award

Stand-Alone Unit Solution

Specifically designed to eliminate oil mist generated from cutting fluids, as well as fine particulate dust produced during graphite machining, composite material processing, and various dry machining applications.

Specifications	Model	Horsepower (HP)	Airflow (m ³ /min)	Frequency (Hz)	Voltage (V)	Inlet Diameter (mm)	Weight (KG)	Dimensions L x W x H (mm)
Oil Mist Recovery System	LC-1000	1/4	13 / 15	50 / 60	1Ø220	150	17	510 × 340 × 440
	LC-2000	1/4	18 / 22	50 / 60	3Ø220/380	150	24	630 × 330 × 470
	LS-1000	0.5	24 / 29	50 / 60	3Ø220/380	150	45	710 × 375 × 520
	LS-2000	1	33 / 41	50 / 60	3Ø220/380	200	54	750 × 420 × 575
Air Purifier	LA-2000	2	40	50 / 60	3Ø220/380	—	—	700 × 620 × 1730
	LOS-750	1	20	50 / 60	3Ø220/380	150	—	450 × 450 × 1000

Large-Scale Filtration Systems (Engineering Planning Included)

Designed for plant-wide air management systems. Provides large-scale integrated air purification solutions for high-concentration mist and dust machining environments, suitable for centralized facility control.

Specifications	Model	Horsepower (HP)	Airflow (m ³ /min)	Frequency (Hz)	Voltage (V)	Inlet Diameter (mm)	Weight (KG)	Dimensions L x W x H (mm)
Centralized Oil Mist Recovery System	LOB-45	2	80	50 / 60	3Ø220/380	300 × 1	290	960 × 1030 × 2150
	LOB-80	5	130	50 / 60	3Ø220/380	300 × 2	550	1100 × 1300 × 2700
	LOB-120	7.5	200	50 / 60	3Ø220/380	300 × 3	730	1150 × 1800 × 2700
Centralized Fume Recovery System	LOD-45	2	—	50 / 60	3Ø220/380	200 × 2	—	800 × 900 × 2500
	LOD-80	3	—	50 / 60	3Ø220/380	200 × 2	—	1100 × 1300 × 2700
	LOD-120	7.5	—	50 / 60	3Ø220/380	250 × 2	—	1350 × 1500 × 3250
	LOD-1000	2	—	50 / 60	3Ø220/380	150 × 1	—	600 × 650 × 1900

Coolant Circulation & Quality Management

Effective recovery and treatment of coolant and waste materials.

Specifications	Model	Airflow (L/min)	Power Supply	Weight (KG)	Dimensions L x W x H (mm)
Coolant Management-Oil-Water Separator	LW-S20	32	Pneumatic	30	350 × 500 × 810
	LW-M15	32	Pneumatic	20	450 × 320 × 335
Sludge Management-Sludge Filtration System	LG-F160	159	Pneumatic	45	680 × 390 × 850
	LG-F400	378.5	Pneumatic	65	750 × 410 × 900

Filtration Accessories

High-precision interception, airflow guidance, and long-life circulation filter systems tailored for diverse machining requirements.

Type	Vertical Purification Filter		Stainless Steel Functional Filter Mesh		Molecular Filtration Layer
Series	L	H	S	P	Customizable
Filtration Grade	Light oil mist Water mist Filters down to 10µm	Oil mist Full oil machining Filters down to 0.3µm	Filtration range: 10~1µm	Filters down to 1~0.3µm	Adsorbs odors and VOCs
Applications & Features	Light cutting Suitable for water mist and minimal oil mist environments	HEPA H13 grade, up to 99.97% efficiency Full Oil Machining Air-Conditioned Facility Suitable for Demanding Operating Conditions	Washable and reusable design Intercepts medium to large oil mist particles to prevent clogging and reduce the load on downstream filters	HEPA H13 grade, up to 99.97% efficiency Meets medical-grade spatial cleanliness requirements	Effectively captures gaseous pollutants and odor molecules Enhances exhaust cleanliness and deodorization performance

The specifications above are for reference only; design modifications can be made based on actual machining requirements.



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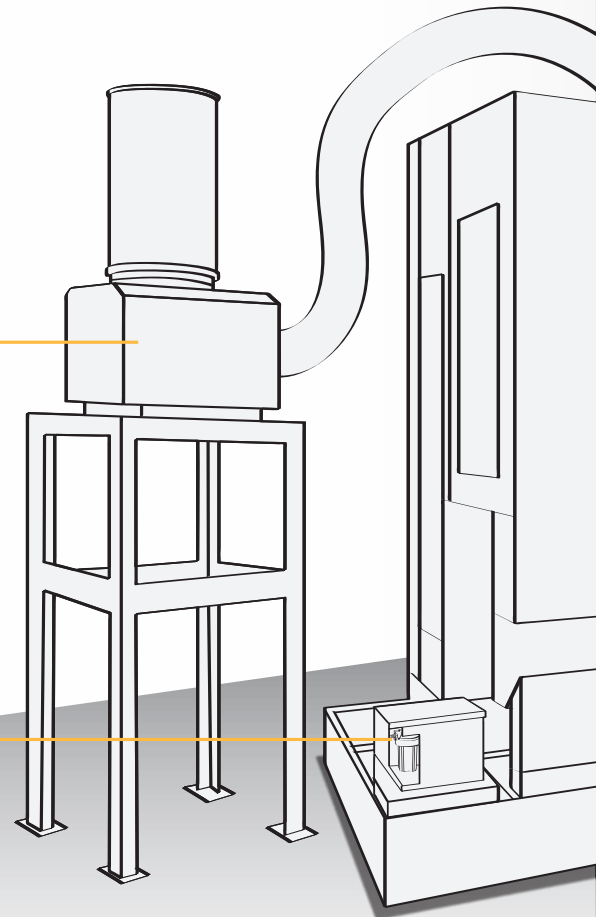




TMBA Energy Saving Label
Gold Award



TMBA Energy Saving Label
Silver Award



LS Series Point-of-Source Oil Mist Recovery System

Patented 3D Centrifugal Technology | High Efficiency & Energy Saving

Product Advantages

- High Suction, Low Horsepower: Achieves up to 85% energy savings.
- Low RPM with High Efficiency: Anti-vibration dynamic balance calibration.
- Medical Grade Filtration: Equipped with High-precision HEPA filters (up to 99.97% efficiency).

Standalone Applications

Suitable for CNC turning and milling machines, open-type machine tools, precision grinding machines, and both water-based and neat oil machining environments, as well as fine oil mist processes.

- Effective Capture: Efficiently collects airborne mist and fine metal chips.
- Rapid Improvement: Instantly mitigates oil mist leakage and dispersion.
- Enhanced Environment: Improves overall workplace air quality and cleanliness.

System Applications

Serves as a pre-treatment module in a centralized oil mist extraction system:

LS Series → Centralized Ducting → External Exhaust or Post-Treatment

- Reduced Maintenance: Minimizes oil sludge accumulation within the ductwork.
- Load Reduction: Pre-filtration at the source significantly reduces the operational load on centralized fans.
- Flexible Integration: Compatible with centralized piping, activated carbon towers, or other advanced purification equipment.

LW Series Coolant Management - Oil-Water Separator

Pneumatic Driven | Patented Physical Separation | Zero Consumables

Product Advantages

- Energy Efficient & Safe: Pneumatically driven, eliminating risks of electrical sparks or fire.
- Zero Consumables: Patented physical separation technology requires no filter replacements or extra costs.
- Powerful Suction: Rapidly separates floating oil, sludge, and debris.
- Smart Expansion: Compatible with AI Intelligent Monitoring and automatic coolant replenishment systems.

Standalone Applications

Suitable for CNC machining centers, grinding equipment, and various industrial coolant tanks.

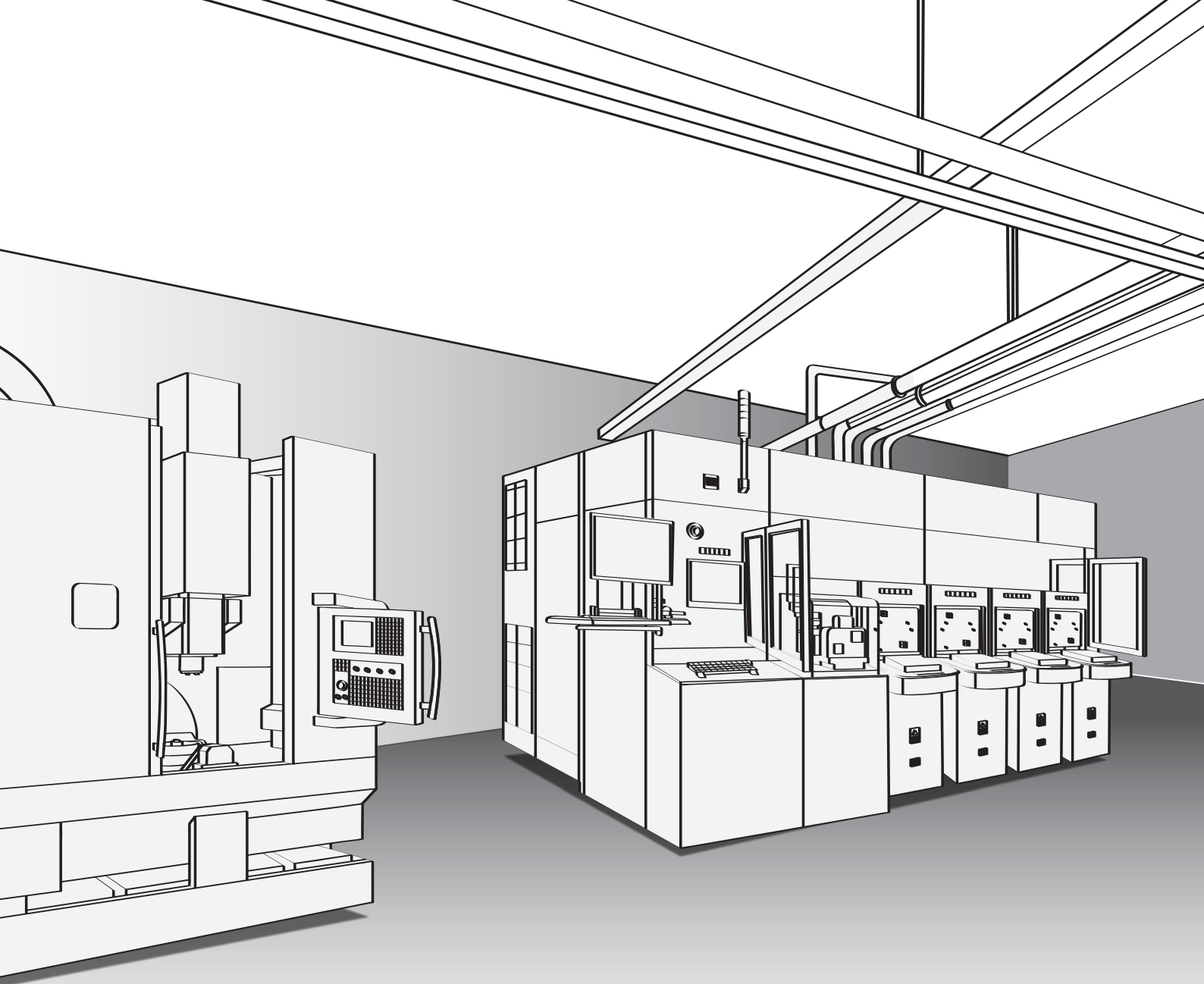
- LW-M15: Designed for independent stand-alone operation.
- LW-S20: Mobile design for flexible use across multiple machines.
- Plug & Play: Ready to use with no horizontal leveling or complex calibration required.
- Precision Guard: Ensures machining accuracy and minimizes the risk of contamination backflow.
- Cost Efficiency: Reduces coolant replacement frequency and machine downtime.

System Applications

Serve as an oil/water separation module within a centralized coolant management system:

Coolant/Recirculation Tank → LW Series → Recirculation or Centralized Treatment

- Plant-wide Purity: Significantly enhances the overall cleanliness of the factory's coolant supply.
- Load Reduction: Lowers the filtration and treatment burden on downstream wastewater systems.
- Extended Lifespan: Prolongs the service life of both your production equipment and lubricants.



LG Series Sludge Management - Sludge Filtration System

Pneumatic Driven | Sludge Removal & Backflow Pressure Stabilization

Product Advantages

- Energy-Efficient & Safe: Fully compliant with industrial safety regulations and environmental standards.
- Pressure-Stabilized Backflow: Specialized design prevents backflow splashing and secondary contamination during the filtration process.
- Modular Stainless Steel Filter: Flexible configurations available based on sediment particle size.

Standalone Applications

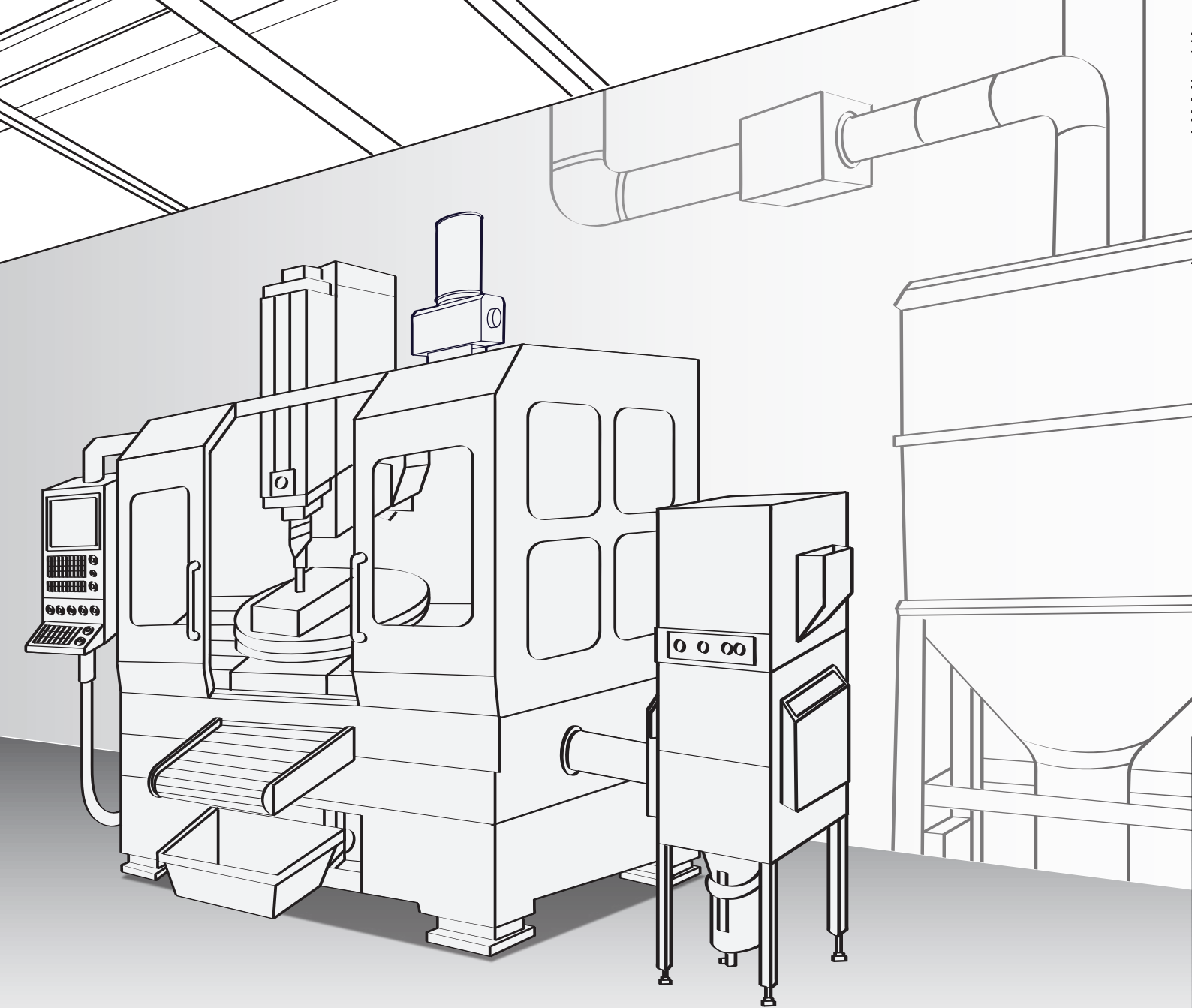
Designed for all types of machining coolant tanks and circulation reservoirs.

- Mobile Design: Mobile design for flexible multi-machine use.
- Rapid Cleaning: Efficiently removes bottom sludge and accumulated debris.
- Contamination Control: Minimizes fluid degradation and eliminates unpleasant odors.
- Process Stability: Maintains coolant purity to ensure consistent machining quality.

System Applications

Functions as a core sludge removal module for plant-wide fluid management:
Coolant Tank → LG Series → Recirculated Usage

- Enhanced Cleanliness: Improves overall tank cleanliness across the facility.
- Reduced Maintenance: Reduces equipment wear and clogging risks.
- Full Management System: Can be integrated with oil/water separators to form a complete coolant management system.



LA/LOS Series Localized Stand-alone Air Purifier

Point-of-Source Pollution Control | Industrial-Grade Air Quality Improvement

Product Advantages

- Standalone Unit Design: Plug-and-play, no complex ducting installation required.
- High Deployment Flexibility: Easily movable to adapt to changing floor plans and equipment layouts.
- Customizable Filtration: Modular filter selection tailored to specific pollutants and operational requirements.

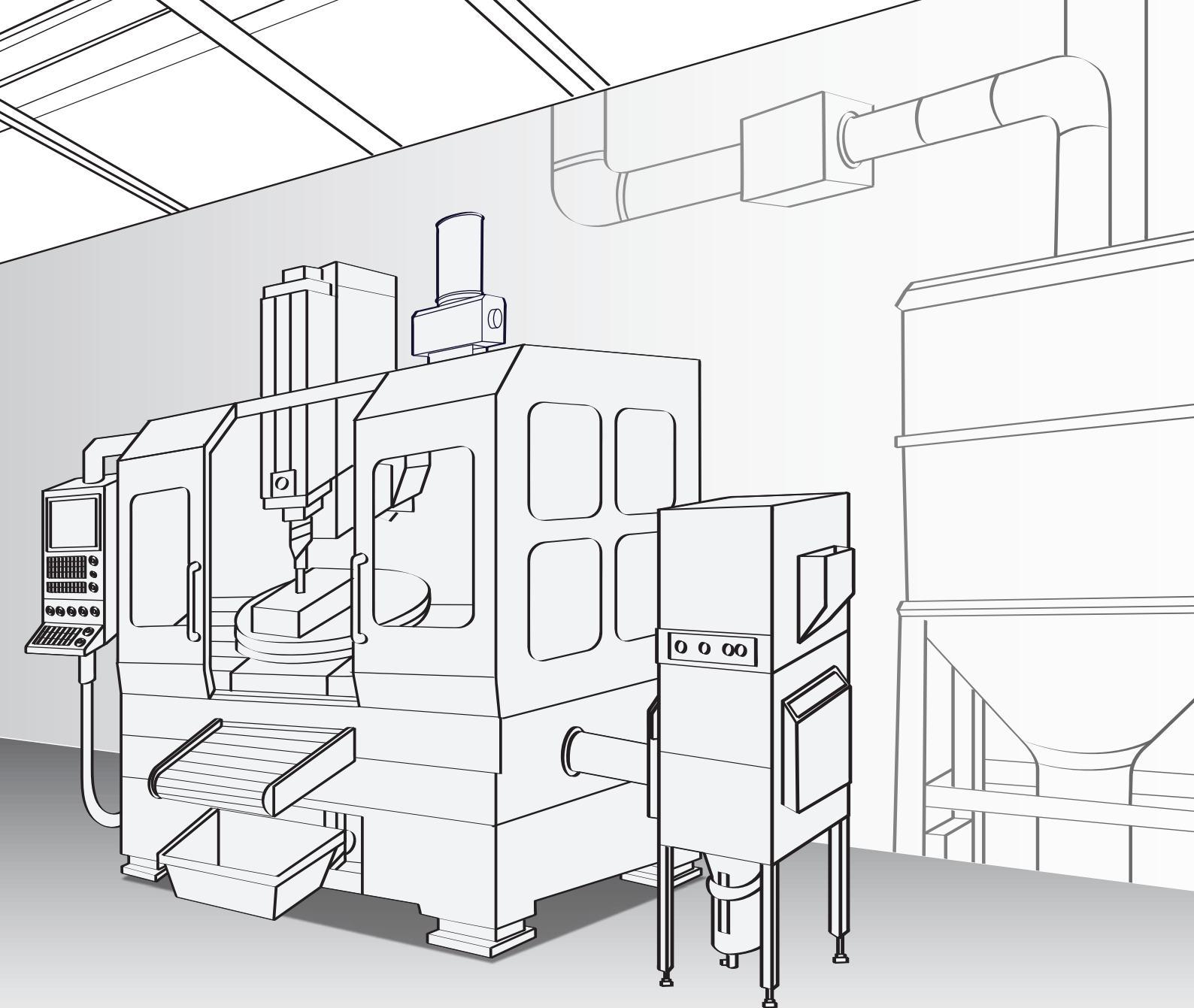
Standalone Applications

- Plug-and-play
- Point-Source Dust Control: Captures airborne particulates directly at the source to prevent spreading.
- Localized VOC & Odor Mitigation: Effectively targets volatile organic compounds and unpleasant industrial smells.
- Independent Space Management: Maintains high air quality standards in isolated or enclosed workspaces.

System Applications

Serve as a Supplementary Module for Plant-Wide Air Pollution Control Systems:
Specific Zone → LA / LOS Series → Improved Local Air Quality

- Eliminates Blind Spots: Complements central dust collection systems by targeting areas with poor coverage.
- Agile Process Adaptation: Provides flexible support for dynamic manufacturing line changes.
- Holistic Environmental Management: Enhances the integrity and effectiveness of the factory's total air purification strategy.



LOD Series Centralized Fume Recovery System

Patented Cyclone Separation Technology | High Efficiency & Centralized Grade

Product Advantages

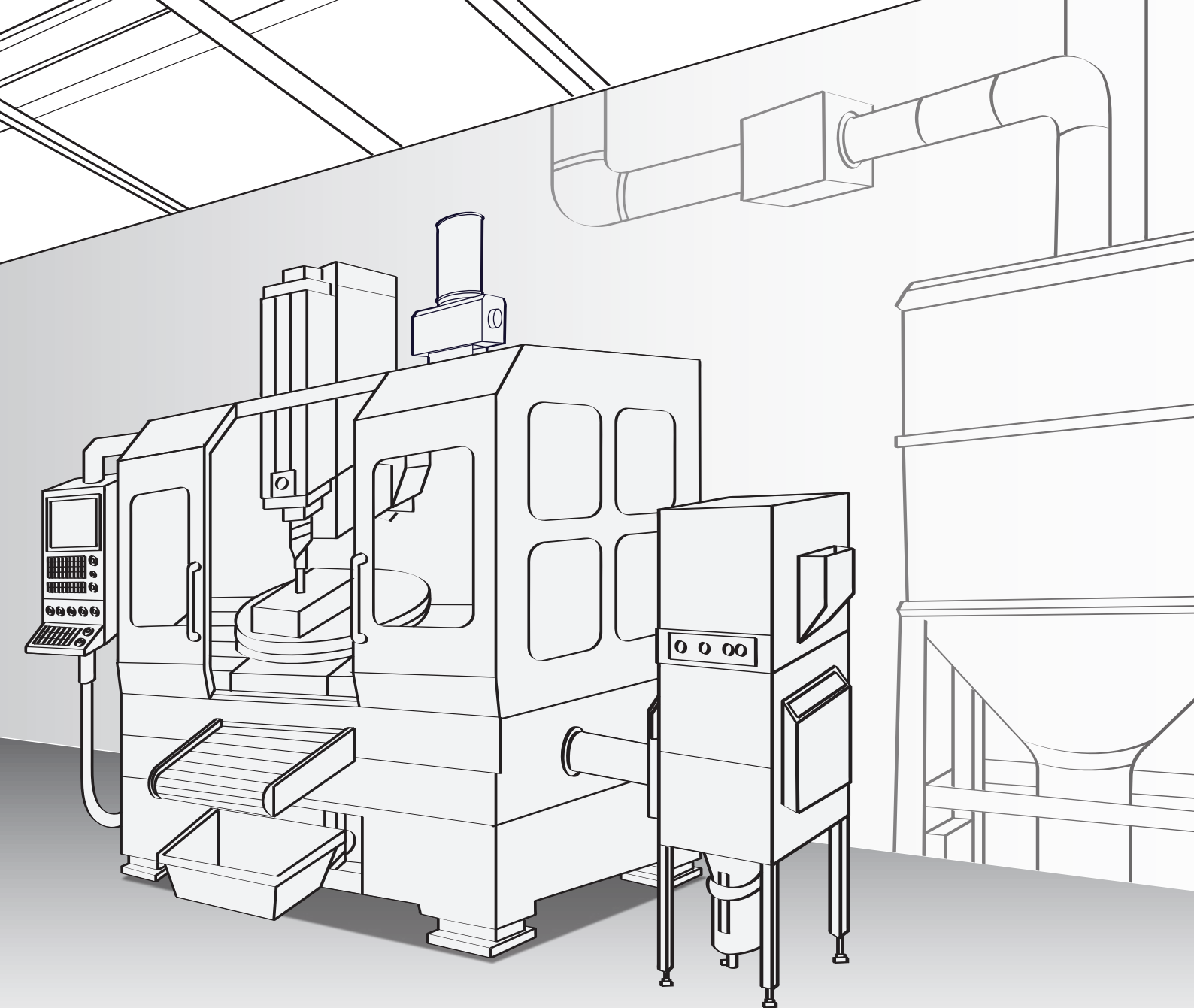
- **Safety-First Design:** Features centralized dust collection and a dedicated pressure-relief safety housing.
- **Versatile Material Handling:** Suitable for processes involving circled chips, granules, and ultra-fine particulates.
- **Stable Separation:** Provides consistent separation results to minimize secondary dust dispersion.
- **Modular Expansion:** Flexible modular design allows for capacity expansion based on specific needs.

Standalone Applications

- **Process Optimization:** Effectively improves high-dust manufacturing processes as an independent unit.
- **Specialized Material Handling:** Suitable for grinding, fibers, precious metal powders, and fine particulates.
- **Operational Safety:** Significantly enhances workplace safety and environmental quality.

System Applications

- Serve as the primary unit for plant-wide centralized dust collection:
Centralized Ductwork → LOD Series → Centralized Dust Recovery or Air Discharge
- **Total Plant Planning:** Suitable for comprehensive facility-wide dust management.
 - **Enhanced Recovery Efficiency:** Maximizes the efficiency of powder and material recycling.
 - **Reduced Energy Consumption:** Reduces overall system energy consumption and operational load.



LOB Series Centralized Oil Mist Recovery System

High Suction, Low Horsepower | Large-Scale Units & Centralized Systems

Product Advantages

- High-Load Performance: Designed for heavy-duty processing of dense oil mist and aerosols.
- Coolant Recovery: Built-in chip filtration mechanism effectively separates fine particles and enables coolant recycling.
- Scalable Architecture: Modular components ensure the system can grow alongside your production capacity.

Standalone Applications

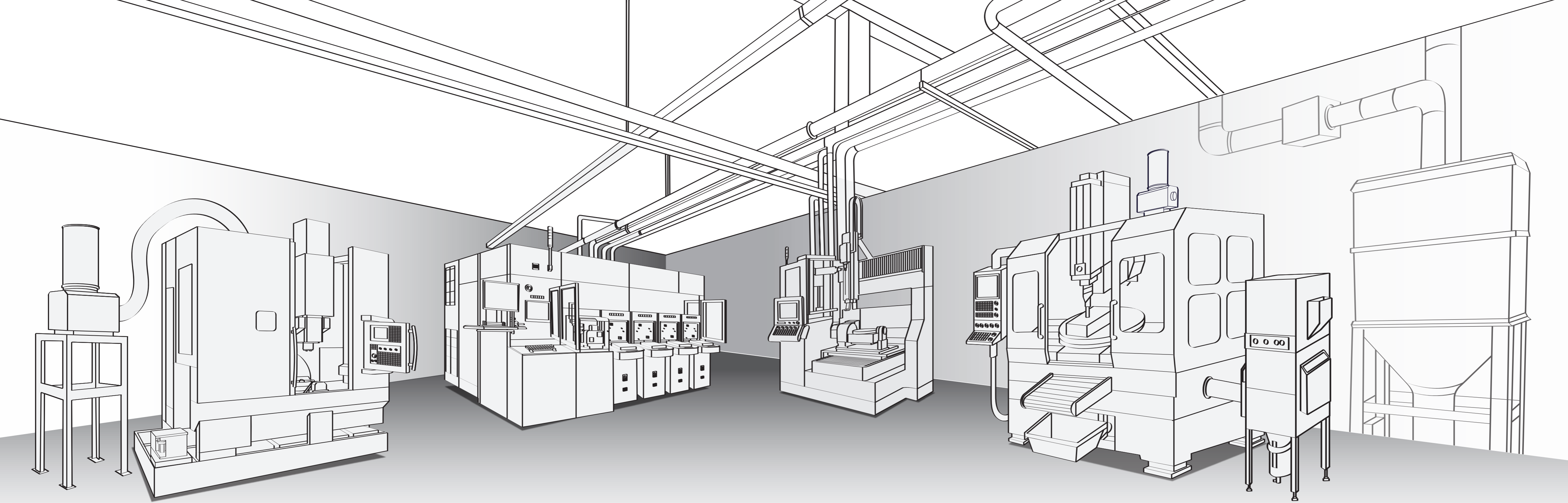
- Heavy-Duty Machining: Suitable for processes with high coolant usage and intensive cutting loads.
- Large Equipment Compatibility: Capable of supporting large-scale machining equipment as a stand-alone unit.
- Reduced Maintenance Costs: Minimizes the need for frequent manual cleaning and downstream maintenance.

System Applications

Serve as the main unit for centralized oil mist system:

Centralized Ductwork → LOB Series → External Exhaust or Post-Treatment

- Plant-Wide Oil Mist Control: Suitable for comprehensive factory-wide air quality planning.
- Agile Capacity Expansion: Modular scalability to accommodate production expansion.
- Turnkey Solutions: Offers full system planning and seamless integration with existing standalone equipment.



| Oil Mist Filtration | Water Treatment | Wet & Dry Dust Collection | Integrated Equipment & System Solutions |

PRECISION STANDALONE FILTRATION SYSTEMS

TURNKEY PLANT-WIDE ENVIRONMENTAL PURIFICATION SOLUTIONS

Powerful Suction
Rapidly increases plant ventilation capacity, effectively purifies air, and ensures continuous clean air circulation.



Precision Filtration
Engineered filtration layers effectively capture oil mist, metal fumes, dust, and PM2.5 with up to 99.9% efficiency.



Extended Maintenance Cycle
Stainless steel functional components reduce consumable costs, are washable and reusable for easy maintenance.



Eco-Friendly
Adjustable performance levels for energy saving, carbon reduction, and sustainable operation.

