

# JINGYUAN® FILTRATION SYSTEMS

## 晶元® 高分子刚性复合膜系统

### Technical Inquiry Checklist · 技术询价参数清单

使用此清单发送过滤方案询价，有助于在 **3 个工作日** 内收到准确技术方案。

Use this checklist before requesting a filtration proposal to receive an accurate technical solution within **3 business days**.

#### Required Information · 建议准备信息

Field / 字段	Why it matters / 为什么重要	Example / 示例
● Fluid type 流体类型	Determines material compatibility and membrane selection — UHMWPE, PTFE, or PVDF are chosen based on chemical exposure. 决定材料兼容性和膜材选型 (UHMWPE / PTFE / PVDF 基于化学兼容性确定)	Diesel / 柴油, Hydraulic oil, Gear oil, Lubricant, Fermentation broth
● Flow rate 流量	Determines equipment size and pump configuration. Peak flow (not average) governs membrane module count. 决定设备规格和泵组配置。以峰值流量 (非平均值) 为设计基准。	40 t/h, 15 m <sup>3</sup> /h, 60 L/min, 10–40 L/min
● Cleanliness target 洁净度目标	Determines filtration precision and number of stages. Drives membrane pore size (2/5/10/15/20/25 µm). 决定过滤精度和级数，直接影响膜孔径选型 (2–25 µm)。	ISO 4406 14/12/9, NAS Class 6, Water ≤ 50 ppm, 国VI 标准
● Current problem 当前问题	Helps identify root cause and ROI — cartridge failure, injector clogging, pump wear, or water contamination each point to different solutions. 帮助判断根因和投资回报。滤芯失效、喷油嘴堵塞、泵磨损或水污染各指向不同方案。	Frequent cartridge replacement, Injector failure, Water contamination, 高压共轨卡死
● Site conditions 现场条件	Determines skid, explosion-proof, and power design. Mobile vs. fixed, power supply, ambient temp, hazardous-area classification. 决定撬装、防爆和供电方案。移动/固定、电源、环境温度及防爆区域等级均影响配置。	Fixed skid, Mobile cart, ATEX Zone 1, Off-grid / 离网, -20°C, High dust

#### Supplementary Parameters · 补充参数 (提供可加快方案精度)

Parameter / 参数	Why it matters / 重要性	Example / 示例
Fluid viscosity & temperature 流体粘度与温度	Operating viscosity range and max temp. Critical for high-viscosity oils (> 320 cSt @ 40°C).	ISO VG 46, VG 220 @ 40°C, 80°C max
Water content (inlet) 入口含水量	Free water level at inlet. Membrane achieves ≥ 95% removal when free water ≤ 1,000 ppm.	≤ 500 ppm, Free water visible, KF test result

Parameter / 参数	Why it matters / 重要性	Example / 示例
Power supply 供电情况	Voltage, phase, frequency. Off-grid or generator-only sites need special attention.	380V / 50Hz / 3ph, 220V single, Diesel gen-set
Industry / application 行业 / 应用场景	Refinery dispatch, fuel polishing for generators, off-road HPCR protection, or industrial oil recovery.	Oil depot dispatch, IDC generator, Mining HPCR, Wind gearbox
Inlet pressure / piping 入口压力 / 管路条件	Upstream pressure and pipe size. Max allowable working pressure: 0.5 MPa.	0.3 MPa inlet, DN50 flanged, Self-priming needed
Automation requirements 自动化需求	Auto backflush, DP alarms, PLC, remote monitoring — affects electrical design scope.	Auto backflush, 4–20 mA DP, Modbus RTU, Manual only

## Helpful Supporting Documents · 建议随附资料

### ► Oil analysis report / 油品检测报告

Particle count, water content, viscosity data — accelerates root-cause diagnosis and stage configuration.

### ► Site photos / 现场照片

Existing equipment layout, pipe connections, available space — critical for skid sizing and installation design.

### ► Existing cartridge model / 现用滤芯型号

Identifies current filtration precision and replacement frequency — key to quantifying TCO reduction.


### ► Process flow diagram (P&ID) / 工艺流程图

Shows upstream and downstream equipment, isolation valves, and bypass requirements.

## Applicable Product Series · 参考产品系列

Application / 应用场景	Typical Flow Range / 典型流量	Reference Model / 参考型号
Refinery dispatch / fuel loading 炼厂发油 / 装车过滤	40–60 m <sup>3</sup> /h	JY-DL60, JY-DX40, JY-Q325, JY-A30
Fuel polishing — generator standby 燃油抛光 — 备用发电机组	0.5–5 m <sup>3</sup> /h	JY-219F, JY-219A, JY-DX5
Off-road HPCR protection 非道路重机 HPCR 防御	15–40 L/min	JY-DX5, JY-DX40
Industrial oil (hydraulic / gear) 工业油净化 (液压 / 齿轮油)	10–40 L/min	JY-G100, JY-210
Petrol station receiving filter 加油站入库净化	40 m <sup>3</sup> /h	JY-DX40


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如有油品检测报告、现场照片、现用滤芯型号或工艺流程图，建议一并附上。

 **24 小时内** 初步回复确认收到

 **3 个工作日内** 标准方案和报价

\* 运行数据充分时提供

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