

JZ-100

Machine Tool Oil-Water Separator

PRODUCT POSITIONING

A compact tramp-oil treatment unit for individual machine tools and machining centers, designed for online de-oiling and routine maintenance of coolant tanks.



FLOW RATE

100 L/H

SUCTION LIFT

1.0 m

POWER

25 W

FILTER

1.6 L

CORE VALUE

Continuous surface-oil skimming, coalescing separation and filtration within a compact footprint, reducing manual oil-skimming frequency and providing a stable base treatment unit for coolant maintenance.

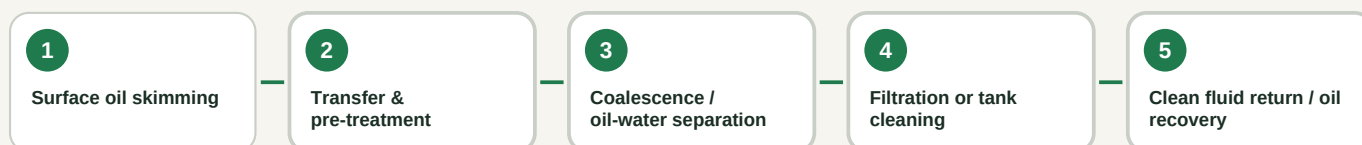
Detailed Technical Specifications

Data per this document version; model selection and non-standard configurations are subject to the final technical agreement.

Model	JZ-100	Application	Machine tools, machining centers
Dimensions	250 x 400 x 500 mm	Material	2.0 mm carbon steel
Surface Finish	Powder-coated paint	Power Supply	AC 220 V
Power	25 W	Pump	B-75
Filter	1.6 L SUS304	Filtration Rating	1.0 mm
Max Passable Particle	2.0 mm	Suction Lift	100 cm
Flow Rate	100 L/H	Floating Suction Unit	Rod type
Suction Radius	1.2 m	Port Standard	DN15

Working Principle & Process

WORKING PRINCIPLE



How It Works

The surface suction device maintains its intake position as the liquid level changes, preferentially drawing in the floating oil layer. Once the mixture enters the separation zone, fine oil droplets gradually coalesce into larger drops under gentle flow and rise to the surface; the cleaned fluid passes through basic filtration and returns to the tank.

Applications & Solution Boundaries

Configure based on actual working conditions - avoid selecting by flow rate alone.

01 Machining Centers

Online collection of surface tramp oil from coolant tanks; ideal for single-machine setups.

02 Small Circulation Tanks

For circulation tanks with modest throughput and limited installation space.

03 CNC Machine Tools

Reduces the continuous buildup of slideway oil and hydraulic oil in the coolant.

04 Maintenance Improvement

Cuts the workload of manual oil skimming and frequent shutdown tank cleaning.

Selection Checklist

SELECTION CHECKLIST

- Tank dimensions and liquid-level variation
- Fluid temperature and pH (acidity / alkalinity)
- Piping distance and required suction lift
- Type and viscosity of the tramp oil
- Particle size and concentration of solids
- Target throughput and continuous run time

Delivery & Service

- Application review and model selection
- Guidance on piping connections and installation position

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Source: Electronic Brochure (1), JZ-100 specification page.



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