

**KING NICE Tech.Co.Ltd**

Tel +886-4-25205630  
 Fax +886-4-25206080  
 service@kingnice.com.tw  
 www.kingnice.com.tw  
 www.taiwantrade.com.tw/oilskimmer  
 No.335,Dongyang Rd., Fengyuan Dist.,  
 Taichung City 420,Taiwan (R.O.C)

ISO 9001 / PATENT CERTIFICATE / INSPECTION



The above picture, data only for reference, according to the actual site conditions prevail



-  Cleaning of coolant oil tank
-  Removal of floating oil in coolant oil tank
-  Sub-micron filtration for industrial fluids in precision applications

CHOOSE THE BEST

**Dr. Healthy Tank**

OIL WATER & COOLANT PURIFYING



SLUDGE CHIP SAVER VACUUMING



FILTRATION SEPARATION SYSTEM



TAIWAN NO.1  
 www.kingnice.com.tw



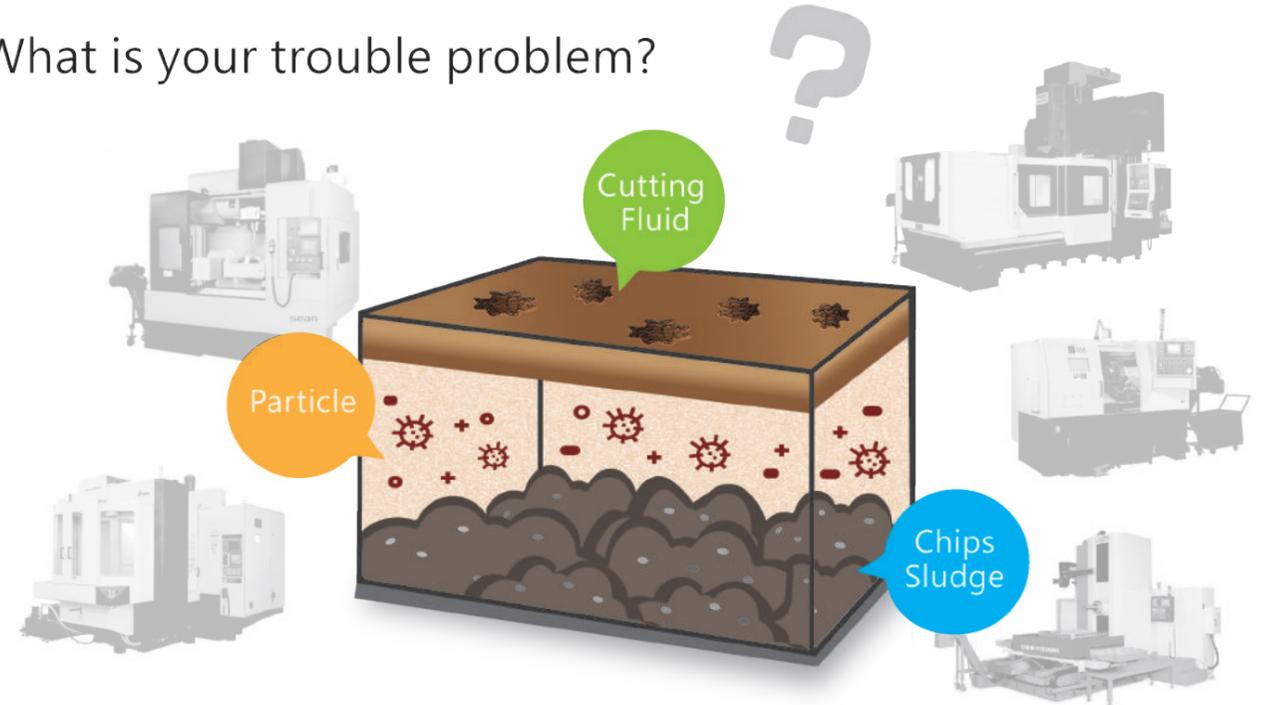
Since its establishment, KING NICE has been adhering to the excellent quality and competitive sales price, focusing on oil and water purification products, in order to keep the mechanical performance stable and improve the operation efficiency of the equipment, after the oil water purification cycle machine, the latest release “Gas Dynamic Type Sludge Chip Saver Vacumer”, its excellent performance and quality, successfully played the role of “HEALTHY TANK”.



Because environmental protection awareness has risen, the environmental protection equipment deployed in various precision machinery has been paid more and more attention. The “Gas Dynamic Type Oil Water & Coolant Purifying Machine” developed by Guanjia Technology can not only effectively solve the problem of oil-water separation, but also be more convenient and faster. The water containing impurities and oil slick is cleaned and the mechanical properties are greatly improved. Therefore, many domestic and foreign large factories are purchased and the market is well established.

# PROBLEM

What is your trouble problem?



## Solution

### OIL WATER & COOLANT PURIFYING SERIES

Cutting Fluid

This section illustrates the solution for cutting fluid purification. It features a diagram showing a brown rectangular block with a grid of holes, representing a filter. Below it is a photograph of a tank filled with dark, oily liquid. To the right, there are two circular icons labeled 'P.03' and 'P.04'. Further right are three images of different models of purifying machines: a small desktop unit, a medium-sized unit labeled 'KN-S', and a larger unit labeled 'KN-1'.

### SLUDGE CHIP SAVER VACUMER SERIES

Chips Sludge

This section illustrates the solution for chips sludge removal. It features a diagram showing a small amount of suspended solids (represented by red gear-like shapes) and a large amount of chips sludge (represented by a dark, wavy layer). A plus sign is between them. To the right is a photograph of a person using a tool to skim sludge from a tank. Further right are two circular icons labeled 'P.05' and 'P.06'. To the right of these are two images of vacumer machines: a red unit labeled 'KN-V300' and a white unit labeled 'KN-V200'.

### FILTRATION SEPARATION SYSTEM

Particle Sludge

This section illustrates the solution for particle sludge separation. It features a diagram showing a massive suspension of particles (represented by many red gear-like shapes) and a small amount of chips sludge (represented by a dark, wavy layer). A plus sign is between them. To the right is a photograph of a filtration system in operation. Further right are two circular icons labeled 'P.07' and 'P.08'. To the right of these are two images of filtration machines: a red unit labeled 'KN-F160' and a white unit labeled 'KN-F50'.

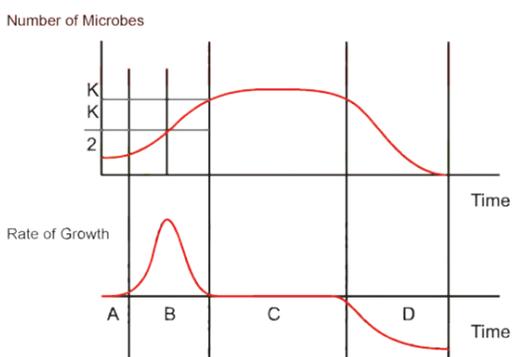


# Why is the coolant have to cleaned?

In the era of high oil prices, to keep the purificat ion of t cutting fluid for cooling , lubrication , rust , pseudo-concentration , grease cleaning , corrosion(bacteria , fungi) to enhance the performance and functionality of impurities can be prolong life.for you accumulate wealth,achieve profitability.



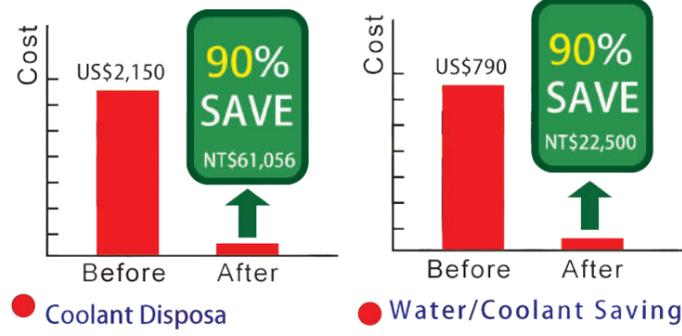
## Bacterial Growth Curve



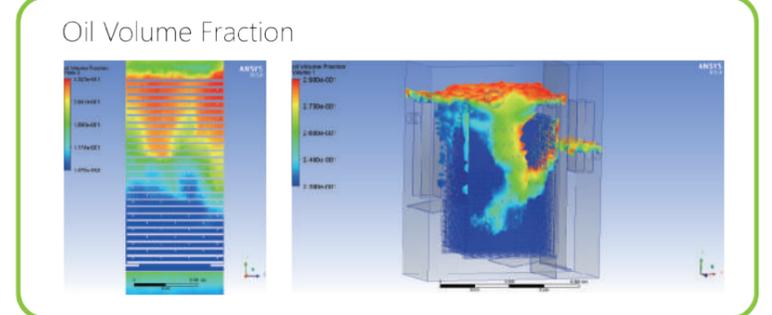
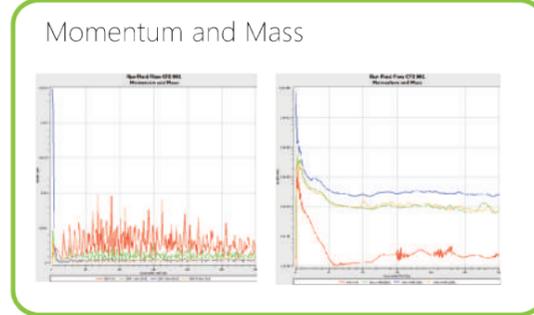
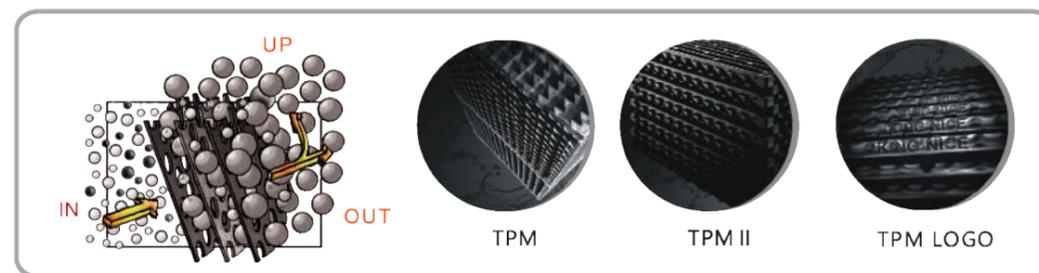
A : Lag Phase  
 B : Log Phase  
 C : Stationary Phase  
 D : Death Phase  
 Note:Rate of growth=Reproductive rate-Mortality rate

## Payout Time / Benefit Analysis

**Cost** savings are calculated for one machine with an 10 gallon sump by 10 CNC machines. The reduction in coolant changeouts will save two changeouts per year , coolant makeup is assumed to 8% , new coolant US\$900/per 50 gallon , labor for Changeouts : US\$10/per hr , US\$1,000 tooling cost ,coolant disposal US\$1.0 per gallon .

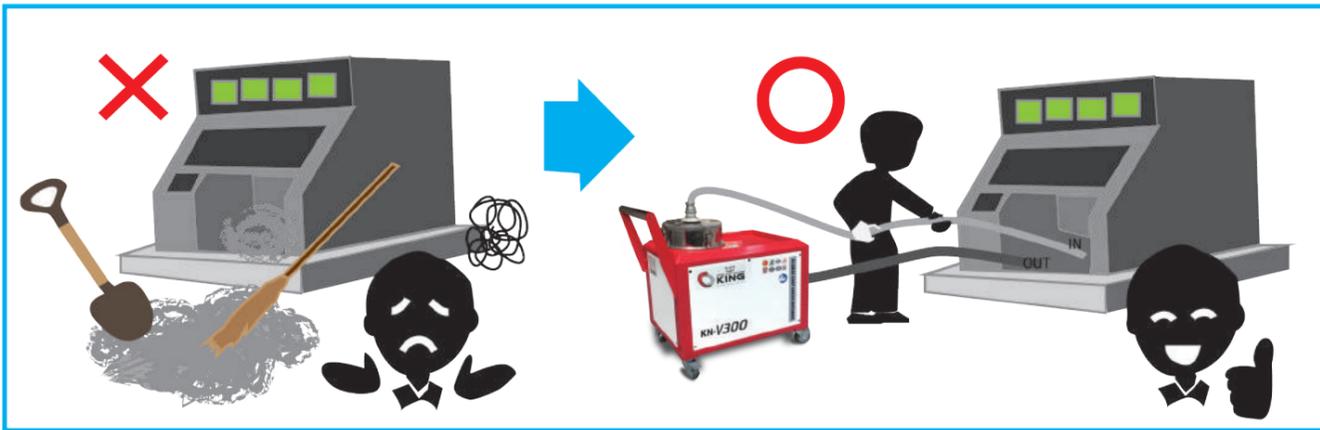


## T.P.M PATENT



## INSTANCE





To keep job clean & easy, reducing 50% working time.

**For liquid surface chips, water tank sludge, powder....ect**

- | To solve the cutting of iron filings, aluminum powder, fine sediment...and other long-time deposition in the CNC water tank troubled.
- | Take the air pressure drive way, to avoid public security problems.
- | Widely used in metal cutting, aluminum processing, grinding process, engineering plastics.
- | Patented technology-easy to deal with oily and water-soluble cutting fluid.
- | Patented technology-special dehydration drying method, can clean CNC water tank, processing liquid, sludge can also be a short time to clean.
- | The maximum filter accuracy can to 1um.



**Gas Dynamic Type | Easily Recovered | Easily Dry**

**Recycling**



The cutting liquid mixed with chips and sludge etc.

**Step1**



Completely collected within 3 min.

**Step2**



It is filtered and cleaned, and you can reuse it.

**Step3**



**Use Value**

- | Reduce the CNC machine failure rate, non-performing rate.
- | Water and Coolant are saving.
- | Reduce the cost of CNC mechanical downtime and operations.
- | Maintain the tank liquid capacity, reduce temperature rise.





Pure-oil Auto



Diesel oil



Liquid

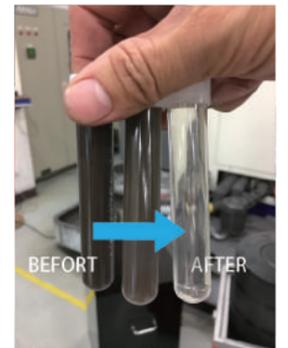


## Feature

- | Liquid filter purification, easy removal.
- | Patented technology - easily correspond with liquid, water-soluble and Pure-oil Auto.
- | Processing can easily recover swarf and sediment without stopping.
- | The highest filtration accuracy can correspond to 5 nano.
- | Solve the problem of long-term deposit on CNC water tanks such as iron chips, aluminum powder, fine sediment, etc. after machining.
- | Widely used in metal cutting, aluminum machining, grinding process, engineering plastics, etc.



- ◆ Corresponding to fine powder such as ceramic powder, quartz wire cutting powder, aluminum powder, tungsten steel powder, etc.
- ◆ Always supply clean liquid to prevent fine powder from invading the sliding surface, chuck, parts, etc. of the machine to prolong the service life of the machine.
- ◆ Low cost, mobile design and easy installation, which can reduce the waste of waste water and sludge and reduce the cost of supplementing cutting fluid.
- ◆ Prevent fine powder from filling vermiculite, prolong the service life of cutting tools and vermiculite, reduce the time of cleaning meteorites, and reduce the failure rate of high pressure water outlet system.
- ◆ High efficiency filtration function, filtration precision up to 1.0um, easy to filter for fine powder
- ◆ Large capacity filter for longer life.
- ◆ It is super easy to replace the filter with the quick connector.
- ◆ Oily and water-based cutting fluids can be used.





Every time, go to the end of the year, it is a headache to clean the tank. Fortunately, there are products of KING NICE' s KN-V200, saving time and easy to use.

Since the use of KING NICE' s KN-PLUS, the odor of the environment has been greatly reduced, and the oil mist is reduced when the machine is operated, and the skin is no longer allergic!

Every time need to change the coolant or clean the tank, the machine needs to be shut down, resulting in reduced production capacity and labor costs. Since the use of KING NICE' s KN-I and KN-V300, it really saves a lot!

We are processing high-tech metal products with strict quality requirements. In particular, too many impurities and suspended solids in the tank will lead to an increase in product non-performing rate. Since the use KING NICE' s KN-V160, the processing quality has been greatly improved. it really saves a lot!

## Ecology

- It can effectively separate the slide oil, foreign matter oil, etc. on the surface of the water tank.Reduce the foul smell produced by the fusion of cutting fluid.
- Reduce oil mist and liquid fly rafts causing grease on machinery and workpieces.Free from skin irritation and allergies.
- No need to discharge, can reduce the amount of waste oil and wastewater treatment.

## Quality

- Reduce workpiece corrosion, rust, improve machining accuracy and extend tool life.
- Purify cutting fluid to stabilize its quality, extend life and improve processing efficiency.
- Filter impurities such as suspended solids to prevent backlash from affecting the surface of the motor and the workpiece.

## Cost reduction

- Stop the production of anaerobic bacteria and reduce the frequency of changing cutting fluid.
- Reduce the failure rate of pipe and motor blockage.
- Reduce labor costs and cleaning time for cutting fluids Save processing costs for waste oil recovery.

OIL WATER & COOLANT PURIFYING

Model	NO.	Machine Size mm	N.W kg	Capacity L	Efficiency Capacity L/h	Timer System	Air inflate System	Unit Waste Oil Tank L	Extra Waste Oil	Air Pump min
	KN-S1	390X310X310	18	12	300	NO	NO	1.5	NO	1.6BAR
	KN-S	350X220X560	20	14	480	NO	NO	1.5	NO	1.6BAR
	KN-I	440X250X870	28	32	720~1200	NO	NO	3.5	Optional	1.6BAR
	KN-PLUS	350X280X850	32	35	720~1500	Optional	Optional	4.5	Optional	1.6BAR
	KN-PLUS2	350X280X850	32	35	720~1500	YES	YES	4.5	Optional	1.6BAR

SLUDGE CHIP SAVER VACUMER

Model	NO.	Machine Size mm	Filter L	N.W kg	MAX FLOW min	Air Pump min pressure	MAX Air min	Thickness Filter um	Filter
	KN-V200	350X500X900	MAX7/time	35	180	0.5Mpa	0.6m3	150um~850um	<b>SUS 304</b> KFS KFN Optional KFW Optional
	KN-V300	845X400X810	MAX9/time	56	300	0.5Mpa	0.6m3	1um~400um	

KFS Type : This is a durable stainless made filter,and no replacement is required.  
 KFN & KFW Type : This is a consumable filter,and replacement is periodically required.

FILTRATION SEPARATION SYSTEM

Model	NO.	Machine Size mm	Filter L	N.W kg	MAX FLOW min	Air Pump min pressure	MAX Air min	Thickness Filter um		Filter
	KN-V160	570X560X950	7	60	180	0.5Mpa	0.4m3	0.01um~25um		KFS KFN Optional KFW Optional
								V1	1~3um	
								V2	5~7um	
	KN-A50	550X400X1200		36	10~80	0.5Mpa 110V,220V	0.4m3	V3	10~15um	