

**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

**Dr. Healthy Tank**

CHOOSE THE BEST

OIL WATER & COOLANT PURIFYING



SLUDGE CHIP SAVER VACUUMING



FILTRATION SEPARATION SYSTEM



**冠佳科技**  
 TAIWAN NO.1  
 www.kingnice.com.tw



冠佳科技從成立至今，皆秉持卓越的品質，及極具競爭力的銷售價格，專注於油水淨化產品，為了讓機械性能保持穩定，提升設備運轉效率，繼油水淨化循環機後，再度推出最新「氣動式吸屑過濾機」，其優異的性能與品質，成功扮演「水箱健康守護神」的角色。

因為環保意識抬頭，各種精密機械中所配置的環保設備愈來愈受到重視，冠佳科技自行研發的「氣動式油水淨化循環機」，不僅可有效解決油水分離問題，而且能更方便、更快速將含有雜質、浮油的水處理乾淨，大幅提升機械性能，因此獲得許多國內外大廠採購，建立市場好口碑。

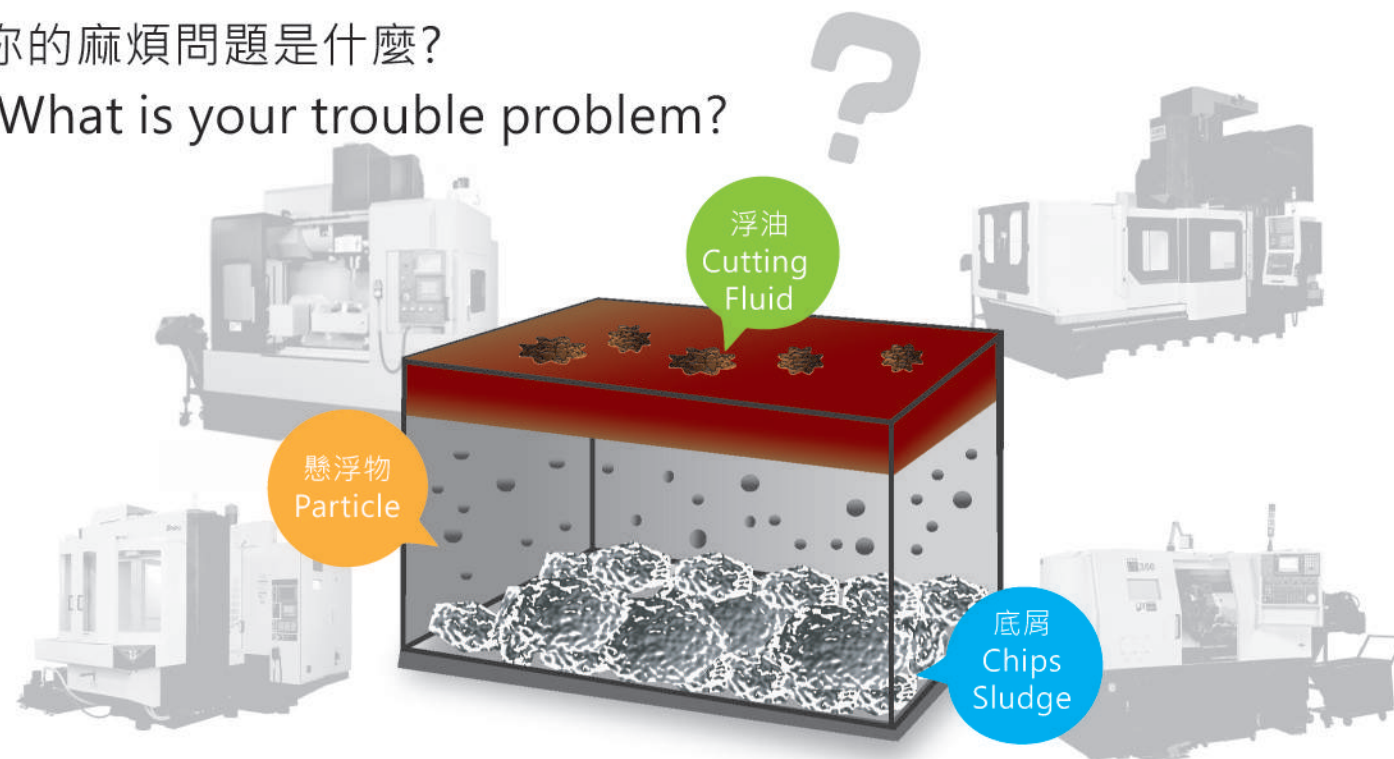
Since its establishment, KING NICE has been adhering to the excellent quality and competitive sales price, focusing on oil and water purification products, in order to keep the mechanical performance stable and improve the operation efficiency of the equipment, after the oil water purification cycle 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

你的麻煩問題是什麼?  
What is your trouble problem?



## 解決方案 Solution

### 切削液油水淨化循環機 OIL WATER & COOLANT PURIFYING SERIES

Cutting Fluid  
浮油  
懸浮物  
乳化

浮油  
Cutting Fluid

P.03 P.04

### 吸屑過濾循環機 SLUDGE CHIP SAVER VACUMER SERIES

Chips Sludge  
底屑  
底泥  
底粉  
沈澱物

少量懸浮粒子  
Suspension Particle  
+  
大量底屑  
Sludge and Chips

P.05 P.06

### 超淨化過濾循環機 FILTRATION SEPARATION SYSTEM

Particle Sludge  
雜質  
懸浮物  
粉末

大量懸浮粒子  
Suspension Particle  
+  
少量底屑  
Sludge and Chips

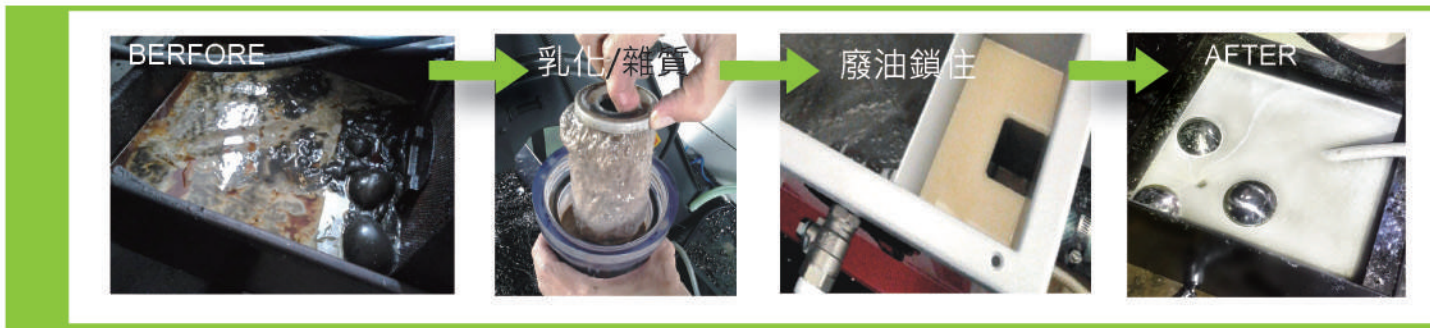
P.07 P.08



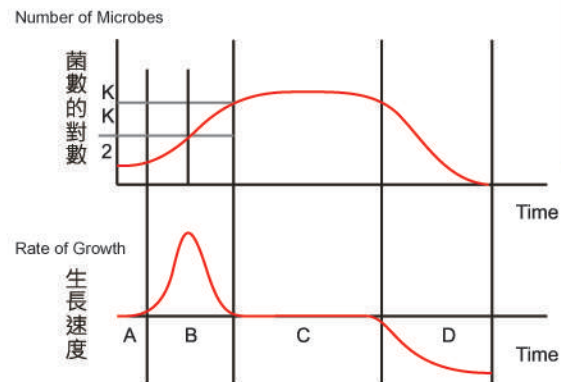
### 切削液為何要淨化?

高油價的時代，保持淨化的切削液對於冷卻、潤滑、防銹、假性濃度、油漬清洗、腐蝕(細菌、黴菌)、雜質...等皆可提升之性能和功能，延長切削液的使用壽命，冠佳科技為你累積財富，達到獲利

In the era of high oil prices, to keep the purification 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

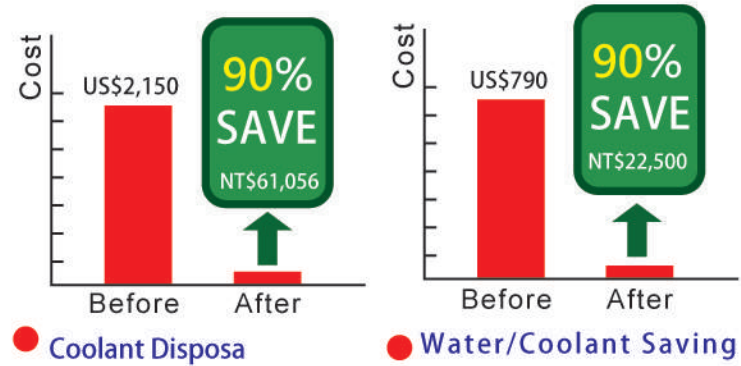


- A : 遲緩期 Lag Phase
- B : 對數生長期 Log Phase
- C : 穩定期 Stationary Phase
- D : 衰亡期 Death Phase

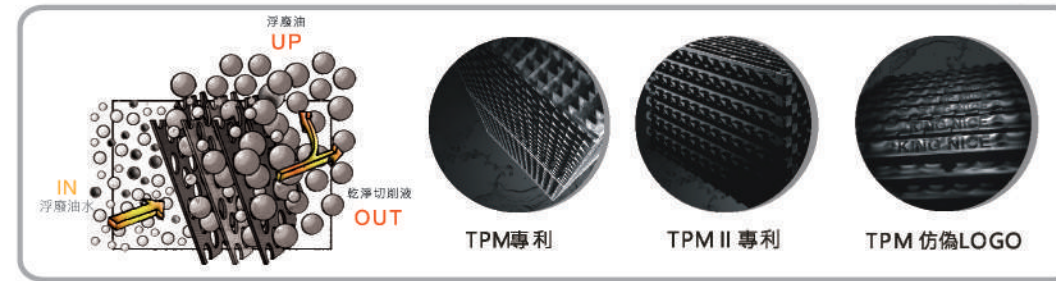
注：增長率=生殖率·死亡率  
Note:Rate of growth=Reproductive rate·Mortality rate

### Payout Time / Benefit Analysis

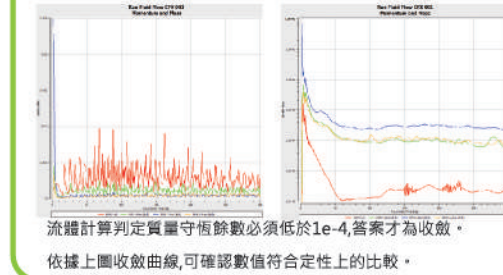
Cost savings are calculated for one machine with an 10 gallon sump by 10 CNC machines. The reduction in coolant changeouts will save two changeouts per year , coolant makeup is assumed to 8% , new coolant US\$900/per 50 gallon , labor for Changeouts : US\$10/per hr , US\$1,000 tooling cost ,coolant disposal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



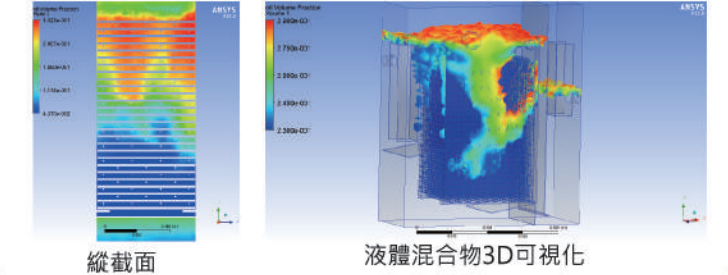
專利.T.P.M介質模組/T.P.M PATENT



收斂性比較/Momentum and Mass



油液體積分率/Oil Volume Fraction



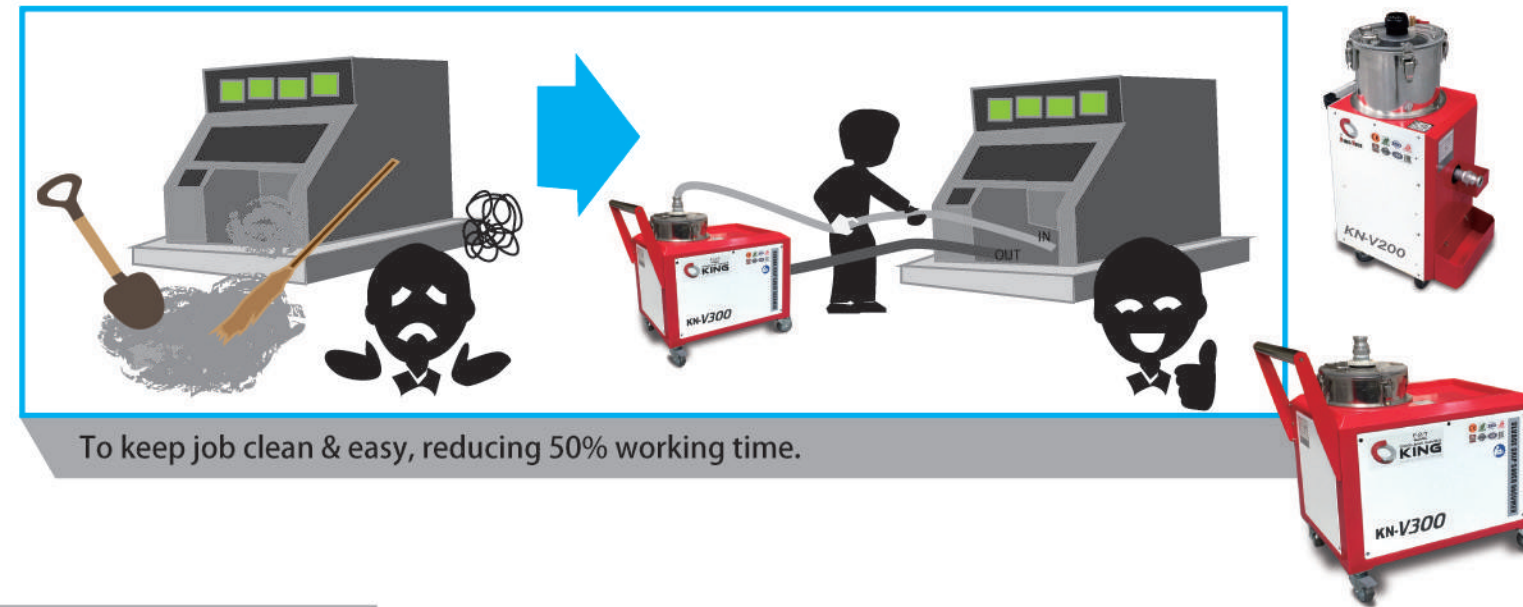
回收實例  
Recycling



針對油性、水性、切削液之液面  
浮屑、水箱底屑、底泥...等輕鬆回收

For liquid surface chips、water tank sludge、powder...ect

- | 解決切削加工後的鐵屑、鋁粉末、細微底泥...等長久沉積於CNC水箱的困擾
- | 採空壓驅動方式，避免公安問題發生
- | 廣泛應用於金屬切削、鋁加工、研磨製程、工程塑膠...等都可對應
- | 專利技術-可輕鬆對應油性及水溶性切削液
- | 專利技術-特殊脫水乾燥方式，能淨化CNC水箱加工液體，汙泥也能短時間內清除
- | 淨化並延長液體使用壽命
- | 最高過濾精度可對應至1UM
- | 加工機不需停機即可簡單回收切屑、底泥



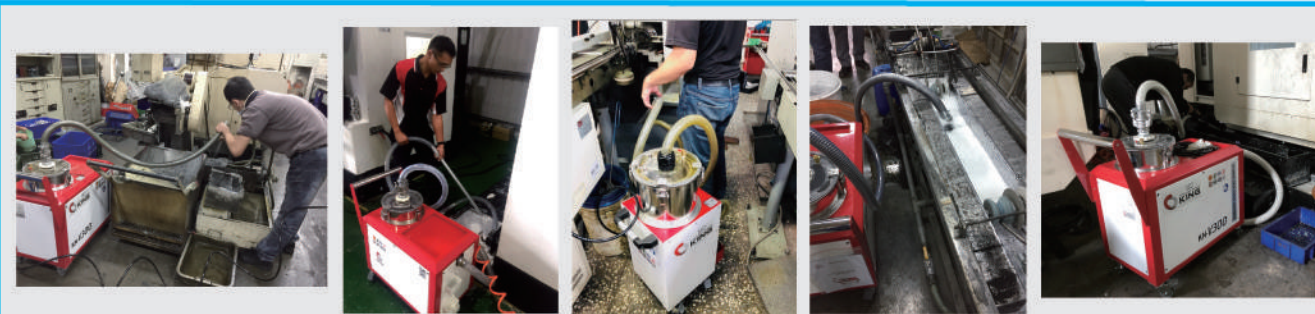
The cutting liquid mixed with chips and sludge etc.

Step1



Completely collected within 3 min.

Step2



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

Step3



- | 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 be to 1um.

導入優點 Use Value

- | 降低工作母機的故障率與加工不良率
- | 減少切削液的更換作業及時間
- | 減少機械停機與作業的支出
- | 維持水箱液體容量，降低溫升困擾
- | 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.





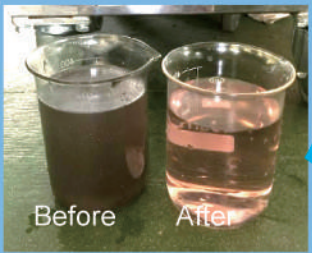
廢水過濾 Liquid



柴油過濾 Diesel oil



全合成油過濾 Pure-oil Auto



現場實況

特色Feature

- 液體過濾淨化、輕鬆除屑
- 採空壓驅動方式，避免公安問題發生
- 專利技術-可輕鬆對應液體過濾、油性與水溶性切削液淨化
- 淨化並延長液體使用壽命
- 加工機不需停機即可簡單回收切屑、底泥
- 最高過濾精度可對應至5奈米
- 解決切削加工後的鐵屑、鋁粉末、細微底泥...等長久沉積於CNC水箱的困擾
- 廣泛應用於金屬切削、鋁加工、研磨製程、工程塑膠...等都對應
- 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.

保持加工液、作動油潔淨的良好狀態

提高加工品質、降低成本

KN-V50



- ◆ 對應細粉如 陶瓷粉 石英 線切割粉 鋁粉 鎢鋼粉..... 等細粉過濾。
- ◆ 時常供給乾淨的液體，防止細粉侵入機械的滑動面、夾頭、零件...等延長機械使用壽命。
- ◆ 低成本、移動式設計、安裝容易，可減少廢水、污泥的廢棄量及降低補充切削液之成本。
- ◆ 防止細粉堵塞砥石，延長刀具、砥石之使用壽命，減少清洗砥石時間，降低高壓出水系統故障率之發生。
- ◆ 高效率過濾機能，過濾精度可達1.0um，對於細粉也能輕鬆過濾
- ◆ 大容量濾心使用，壽命更長。
- ◆ 使用快速接頭方式更換濾心超容易。
- ◆ 油性、水性切削液皆可對應。

Keep high quality



- ◆ 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.

使用冠佳科技油水系列產品所帶來的價值



每次要到年底時，清理水箱是個頭痛的工作，還好有冠佳的吸屑過濾機，省時又省力  
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.

自從使用了冠佳的油水淨化循環機後，環境的惡臭味大大降低，在操作機台時也減少了油霧產生，皮膚也不再過敏了！  
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!

每次更換切削液或清掃水箱的時候，機台必需要停機，導致產能降低與人工成本花費，自從用了冠佳的油水淨化循環機與吸屑過濾機後，真的替公司省很大！  
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!

我們是加工高科技金屬產品，對品質要求嚴格，尤其是水箱的雜質與懸浮物太多會導致產品不良率上升，自從用了冠佳的超淨化淨化循環機後，加工品質大大提升，早就該購買了！  
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** 環境改善

- 能有效將水槽表面之滑道油、異物油..等分離 降低切削液變質融合所產生的惡臭味  
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.
- 減少油霧與液體飛濺導致機械和工件所附著的油垢 免於皮膚接觸所產生刺激與過敏  
Reduce oil mist and liquid fly rafts causing grease on machinery and workpieces.Free from skin irritation and allergies.
- 不需亂排放，可減少廢油、廢水的處理量  
No need to discharge, can reduce the amount of waste oil and wastewater treatment.

**Quality** 品質提升

- 減少工件腐蝕、生鏽，提高加工精度，延長刀具壽命  
Reduce workpiece corrosion, rust, improve machining accuracy and extend tool life.
- 淨化切削液可使其品質穩定，延長壽命，提升加工效能  
Purify cutting fluid to stabilize its quality, extend life and improve processing efficiency.
- 過濾懸浮物等雜質，避免回沖影響馬達與工件表面的損壞  
Filter impurities such as suspended solids to prevent backlash from affecting the surface of the motor and the workpiece.

**Cost reduction** 成本降低

- 抑止厭氧菌的產生，減少更換切削液的頻率  
Stop the production of anaerobic bacteria and reduce the frequency of changing cutting fluid.
- 降低管路與馬達阻塞的故障率  
Reduce the failure rate of pipe and motor blockage.
- 減少更換切削液的人工成本與清潔時間，節省廢油回收的處理費用  
Reduce labor costs and cleaning time for cutting fluids Save processing costs for waste oil recovery.

OIL WATER & COOLANT PURIFYING

Model	NO.	機台尺寸 Machine Size mm	淨重 N.W kg	容量 Capacity L	處理流量 Efficiency Capacity L/h	時間控制 Timer System	活氧系統 Air inflate System	內建儲油容量 Unit Waste Oil Tank L	儲油外掛筒 Extra Waste Oil	空壓壓力 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	選配 Optional	1.6BAR
	KN-PLUS	350X280X850	32	35	720~1500	選配 Optional	選配 Optional	4.5	選配 Optional	1.6BAR
	KN-PLUS2	350X280X850	32	35	720~1500	YES	YES	4.5	選配 Optional	1.6BAR

SLUDGE CHIP SAVER VACUMER

Model	NO.	機台尺寸 Machine Size mm	處理量 Filter L	淨重 N.W kg	最大處理流量 MAX FLOW min	空壓壓力 Air Pump min pressure	最大耗氣 MAX Air min	過濾精度 Thickness Filter um	過濾材質 Filter
	KN-V200	350X500X900	MAX7	35	180	0.5Mpa	0.6m3	150um~850um	SUS 304 KFS
	KN-V300	845X400X810	MAX9	56	300	0.5Mpa	0.6m3	1um~400um	KFN (選配) Optional KFW (選配) Optional

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 SYATEM

Model	NO.	機台尺寸 Machine Size mm	處理量 Filter L	淨重 N.W kg	最大處理流量 MAX FLOW min	空壓壓力 Air Pump min pressure	最大耗氣 MAX Air min	過濾精度 Thickness Filter um	過濾材質 Filter
	KN-V160	570X560X950	7	60	180	0.5Mpa	0.4m3	0.01um~25um	KFS KFN (選配) Optional KFW (選配) Optional
	KN-V50	530X480X1100		36	10~80	0.5Mpa 110V,220V	0.4m3	V1	1~3um
								V2	5~7um
								V3	10~15um