



• **Additional filtration stage**

For special and severe applications (smoke, VOC and odors) there is the possibility to install an additional filtration module that perfectly fits on the unit. The addition is simple and can be done even later with a special kit.

• **額外的過濾層**

在特別嚴苛的應用場合(煙霧，揮發性有機化合物和氣味)中，本機也能夠安裝完美搭配的額外的過濾組。此加裝非常簡易且僅須增加一個特殊元件。

Absolute filtration

To eliminate dry smoke typical of certain applications where straight oil is used. The efficiency level guaranteed is 99.95% MPPS according to EN 1822 (equivalent to H13). Its clogging can be monitored with an optional pressure gauge.

完整過濾

在使用油的場合中減少乾式煙霧。過濾效果根據EN1822可達到99.95%MPPS(相當於H13)。堵塞狀況可經由選配的壓力計監測。

Maintenance time alarm signal
維修時間警告訊號

Additional controls and monitoring systems
額外控制和監視系統

Fittings and ducting
接頭和管路

Vertical stands, stand on wheels
附輪直立式支架

Accessories for installation

The WS series, has a complete line of dedicated accessories for installation on the machine tools.

裝機附件

WS系列擁有安裝於工具機上完整的相關附件產品線



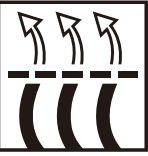
• Bar Feeding Systems
• 棒材送料系統



• Chip Management Systems
• 切屑管理系統



• Coolant Management Systems
• 冷卻液管理系統



• Air Filtration Systems
• 空氣濾清系統

Your "One-Stop-Shop" for machine-tool peripherals

LNS provides a full range of bar feeders, chip conveyors, coolant management systems and air filtration systems which is second to none on the market. We are known in the industry for the solid expertise we have gained over several decades in an exceptionally wide range of applications, our excellent customer service and our sound technical support. This support is ensured by highly qualified technicians who are available at key locations throughout Asia.

“一站式” 服務，滿足您一次購足工具機週邊配備之需求

艾恩司提供您完整的工具機週邊產品，包括棒材送料機、切屑與冷卻液管理系統及空氣濾清系統，所有配備可謂市場上首屈一指的優良產品。艾恩司擁有多年的客戶服務經驗與技術支援團隊，除了提供齊全的設備零件更換，技術人員皆受過專業訓練，派及亞洲各區，給予顧客最完善的售後服務，是您值得信賴的最佳夥伴。



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FOX WS

Oil mist collectors

油霧收集器

Fox WS Series: 250 • 500 • 1000 • 1500 • 2000



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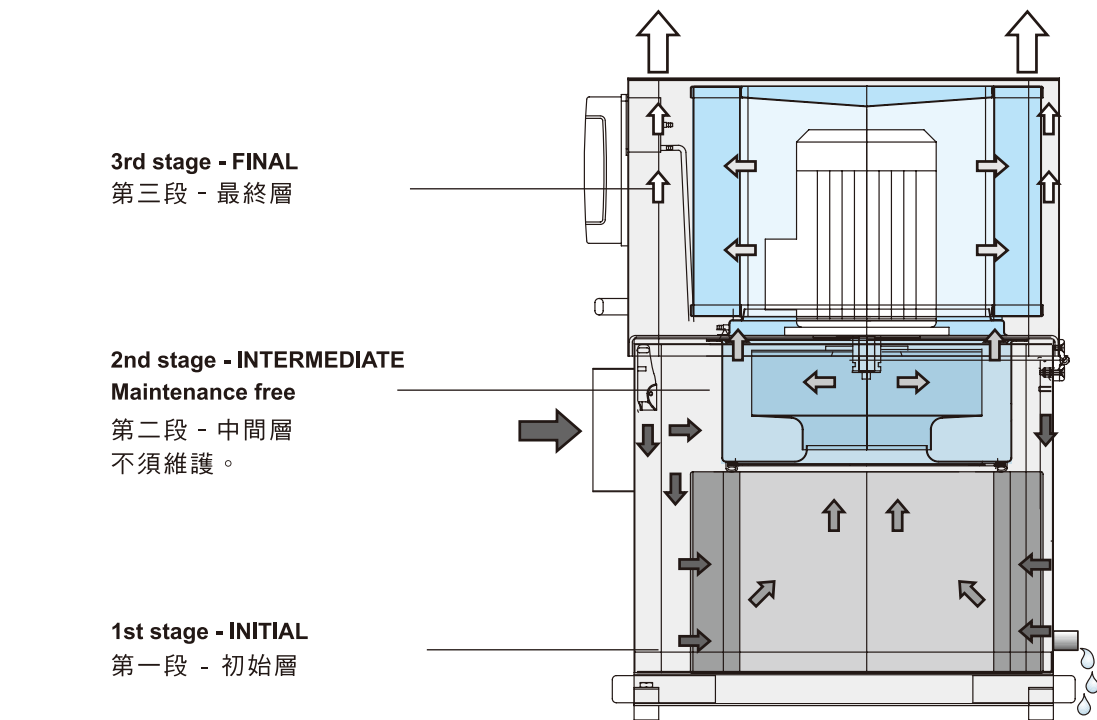
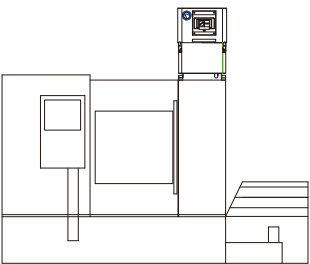
FOX WS

• Oil mist collectors

The Fox WS series represents a quality solution for the collection of soluble coolant and oil mist. It is characterized by a sophisticated design, compact dimensions, standard and customizable accessories, and 5 sizes ranging from 250 to 2000 m3/hr. Specifically developed for the elimination of mist, smoke and odours typical of wet machining operations these mechanical filters can also be employed in mixed application (wet/dry) and for EDM machines.

• 油霧收集器

Fox WS系列產品提供了回收水溶性冷卻液和油霧收集的解決方案。其特色包含了精密的設計、簡潔的結構、標準及客製化的零配件，及從250到2000 m3/hr的5種不同排風量的產品。專為減少濕式加工過程所產生的煙、霧、氣味而發展出的機械式過濾器，甚至可應用於乾/濕混合及放電加工機的使用場合。



• Guaranteed filtration

1st STAGE - INITIAL: Pre-filtration, a special cartridge, composed of 3 different stages(one of them washable) with progressive filtration levels grants a 92% efficiency level. Its main characteristics are the high capability of accumulating particles and the slow and efficient draining effect.

2nd STAGE - INTERMEDIATE: Centrifugal, a special impeller ensures the centrifugal effect that enables the continuous discharge of recondensed particles..

3rd STAGE - FINAL: Extended filtration area, Made of fiberglass, provides an average efficiency level above 99% (measured accordingly to AFNOR NFX 44-060 norm). Clogging is monitored by a pressure gauge that clearly indicates when the cartridge must be replaced.

• 過濾保證

第一段 - 初始層: 前級過濾，一個由三個先進過濾單元(其中一個具逆洗功能)所組成的特殊濾芯。過濾效果達到92%的效率。其主要特色包含高容量的微粒累積能力及慢速但有效率的穿流效應。

第二段 - 中間層: 離心力作用，一個特製的渦輪葉片確保壓縮過的微粒持續地排出。

第三段 - 最終層: 延伸的過濾區域，由玻璃纖維製成，提供平均效率高達99%的過濾等級（經由AFNOR NFX 44-060 規範量測）。濾芯之堵塞程度乃是藉由一壓力計監測，並可清楚顯示何時需進行更換。

• Services

LNS Fox's entry in the market is not limited to the supply of filtration units but, upon request, to a complete consulting service related to the evaluation of the air quality in the workplace.

With the support of internal qualified personnel we can perform an analysis of pollutants concentration level and in conjunction with a certified external lab we submit a complete report of evaluation. This certifies the filtration efficiency that is obtained once the unit is installed on site.

• 服務

艾恩司Fox在市場中，不僅僅局限於空氣濾清器的提供，更能針對工作場所中的空氣品質進行評估，進而根據需求提供完整的對策服務。在艾恩司內部專業人員的支援下，我們可以針對污染濃度等級進行分析，並與外部實驗室配合，提出最完整的評估報告。過濾效率的實證在過濾器安裝後即可獲得。



• Easy maintenance :

Maintenance requires less than five minutes (complete replacement of filters). The result is a considerable saving in time and costs across the life of the unit.

• 簡易的維護:

維護時間不超過5分鐘（全部濾芯的更換）。使用本機可帶來節省時間及成本的雙重效果。

• Guaranteed reliability :

Due to the special impeller and to the high quality of the components, each thoroughly selected and tested.

• 保證的可靠度:

特殊的渦輪葉片及高品質的零件，每一個都經過全檢及測試。

• Patented system 專利系統



• Filtration efficiency / Air quality

The filtration efficiency of the OILMIST collector determines how clean the air is inside the workshop and how healthy is the environment for the operator. LNS provides test reports to certify the filtration level of the Fox WS line according to the AFNOR norm. In addition, trained LNS technicians can provide onsite measurement of air quality to measure with high accuracy how clean the air is. The analysis is conducted using a sophisticated dedicated instrument.

• 過濾效率 / 空氣質量

油霧收集器的過濾效率決定了車間裡的空氣清潔程度和工作環境的健康指數。艾恩司基於AFNOR規範提供測試報告以證明WS系列油霧收集器產品的過濾等級。此外經培訓認證的艾恩司技術人員使用專業的精密便攜檢測儀器可以提供現場空氣檢測服務。



• Technical specifications 技術規格

Model 型號	WS 250		WS 500		WS 1000		WS 1500		WS 2000	
Frequency 電頻率 [Hz]	50	60	50	60	50	60	50	60	50	60
Air flow* 空氣流量** [m³/h]	240	285	470	560	950	1130	1450	1720	1800	2120
Static pressure 靜壓 [Pa]	470	600	610	890	950	1420	1260	1800	1720	2300
Sound level 噪音等級 [dB(A)]	62	64	65	67	71	73	74	76	76	78
Motor 馬達 [Kw]	0.24	0.3	0.37	0.4	0.75	0.9	1.5	1.8	2.2	2.6
Weight 重量 [kg]	28		35		55		75		85	

**WS 500-1000-1500-2000: With HEPA filter installed about -15%

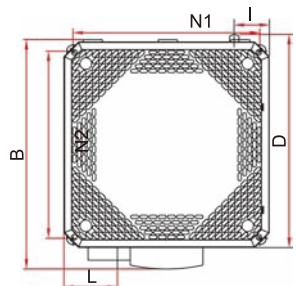
** 加裝HEPA濾器，排風量減少約15%。

- Information is subject to change without notice.本公司保留變更權利不另行通知
- All units painted in RAL 7035/7016 (special colors available upon request). 所有塗裝顏色均為RAL 7035/7016 (可選配其他顏色)
- Electrical motors (V/Hz) 馬達規格 (電壓/頻率) 230/50-400/50



• Dimensions (mm) 尺寸 (mm)

Model 型號	A	B	C	D	E	ø F	ø G	H	I	L	N1 x N2 x øM
Fox WS 250	378	476	534	418	225	98	25	32	80	100	332 X 382 X 9
Fox WS 500	408	505	630	450	265	123	25	42	85	119	363 X 395 X 9
Fox WS 1000	525	592	781	533	353	148	25	42	90	136	478 X 478 X 9
Fox WS 1500	600	667	892	607	387	198	25	42	95	168	552 X 552 X 9
Fox WS 2000	663	730	981	670	437	198	25	42	100	173	615 X 615 X 9



• Air flow 空氣流量

