

政鈺機械股份有限公司 GMA MACHINERY ENTERPRISE CO., LTD.



風刀 Air Knife

- 可提供穩定氣流,以風切型式,將滾輪與成品間產生的熱氣壓縮排出
- 本體採用鋁合金製造,方便清潔
- 内建特殊設計導流片,出風量均匀,氣流穩定
- 風嘴可調整,控制風口狹縫的開口尺寸
- 適用材質:一般泛用塑膠
- 適用產品:各項塑料板材類之除水與乾燥及薄膜產品的熱定效果
- Stability airflow to discharge the air that generated by the casting roller during high speed production.
- Made of aluminum alloy, easy to clean and corrosion resistant.
- · Built-stopper plate ensure uniform air flow.
- Adjustable gap for air flow.
- Applicable materials: general plastic.
- Applicable products: water removal and drying of various plastic sheets and heat setting effect of film products.

標準型風刀 Standar



無接口槽縫吹出的空氣,風切壓力均匀分佈(風速偏差精度±3%)。

The air blown out from the slot without the interface, the wind cutting pressure is evenly distributed (wind speed deviation accuracy \pm 3%).

斜嘴式風刀 Standar



無接口槽縫吹出的空氣,風切壓力均匀分佈(風速偏差精度±3%)並因有理想的角度,減少周圍空氣捲入得以延長吹出空氣的到達距離。

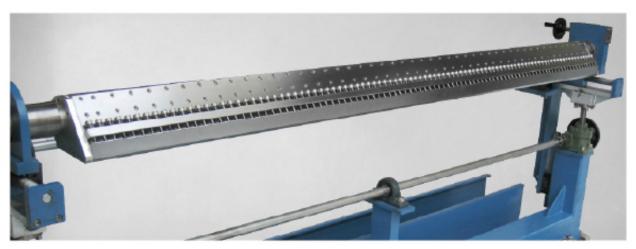
The air blown out without the interface slot, the air cutting pressure is evenly distributed (wind speed deviation accuracy \pm 3%) and due to the ideal angle, reducing the surrounding air entrapment can prolong the reach of the blown air.

精密型風刀 Presision



特殊風道設計,風嘴可精密調整至0,風切壓力均匀分佈(風速偏差精度±3%)並因有理想的角度,減少周圍空氣捲入得以延長吹出空氣的到達距離。

Special air duct design, the air nozzle can be precisely adjusted to 0, the wind cutting pressure is evenly distributed (wind speed deviation accuracy \pm 3%) and due to the ideal angle, the surrounding air is reduced to extend the reach of the blown air.



模擬分析

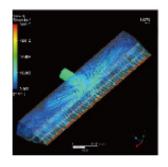
Simulation Analysis

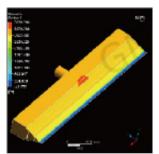
政鈺通過模擬分析,對風刀結構的流場進行 計算和校核,在不同入風方向皆可達到均匀 度差異小於 ±3%的模擬結果,根據實際經 驗提供適合客戶的方案!

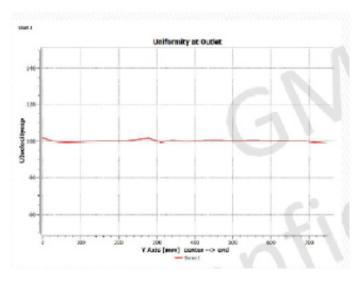
Through simulation analysis, the political plaque calculates and checks the flow field of the air knife structure, and can achieve simulation results with uniformity difference less than $\pm 3\%$ in different directions of entering the wind, and provide solutions suitable for customers according to actual experience!

模擬條件 Simulation conditions 風刀寬 width:1500mm

入口風量 Inlet air volume: 5.2m3/min







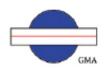
產品類型	標準型風刀	鋁合金風刀	精密型風刀
Type	Standard	Standard	Precision
寬幅範圍 Width range	300~2650mm	300~2650mm	300~2650mm
開口範圍 Lip opening	0.5~1mm	0.5~1mm	0~2mm
出口型式	直吹式	45度	直吹式
outlet type	vertical	45 degree	vertical
風量調整方式	鼓風機	鼓風機	螺栓調整開口
Air flow control	blower	blower	Adjusting bolts
建議鼓風機規格 Blower model	3HP for 300~1000mm 5HP for 1001~2000mm 7.5HP for 2001~3000mm	3HP for 300~1000mm 5HP for 1001~2000mm 7.5HP for 2001~3000mm	3HP for 300~1000mm 5HP for 1001~2000mm 7.5HP for 2001~3000mm
建議鼓風機型式	環型式	環型式	環型式
Proposed blowing type	Ring blower	Ring blower	Ring blower
其他	應用於薄膜(流涎)及乾燥, 可客制化設計制作		
Other information	Application on film extrusion line, provide custom-made		

風箱 Vacuum Box

- 於輪面作抽氣造成腔内負壓力,使塑料與輪面可以緊密貼合不會因高速生產下與滾輪間 產生包風現象
- 薄膜高速生產狀態,膜與輪之間不易有空氣產生,故不易產生不良品
- 提供一個穩定的生產環境與條件,降低氣泡或荷葉邊等的不良品
- 適用材質:一般泛用塑膠
- 適用產品:塑料薄膜類產品
- · Suck air out on the casting roller, so that the plastic and the roller can be tightly fitted without air entrapment.
- The film is produced at a high speed, and there is no air generated between the film and the wheel, so it is not easy to produce defective products.
- · Provide stability of film forming area to reduce air generation and strengthen film edges.
- Applicable material: general plastic
- Applicable products: plastic film products



寬幅範圍 Width range	500~2500mm	
對應滾輪直徑 Roll diameter	Ø350~ Ø1200	
出風口調整方式	閘門調整	
Air suction	By blower	
風量調整方式	閘門調整 變頻器	
Air flow control	Blower and adjusting valve	
建議鼓風機規格 Proposed blowing spec.	500↓ 1HP 1000↓ 3HP 1001~2000 5HP 2001~3000 7.5HP	
建議鼓風機型式	環型式	
Proposed blowing type	Ring blower	
其他	應用於薄膜(流涎)生產線上,可客制化設計制作	
Other information	Application on film extrusion line, provide custom-made	





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