

TS-V Intelligent Variable Screw Air Compressor

智慧型變頻螺旋式空氣壓縮機



Intelligent Inverter With Energy-saving Control System

智慧變頻節能控制系統



TS-V Series Variable Speed Screw Air Compressors

TS-V變頻節能式空壓機



Air End
螺旋主機



Oil Recovery Viewer
回油視鏡



Suction Valve
進氣閥



Oil Filter
油濾清元件



Over pressure Switch
過壓開關

Features

The series of compressor is equipped with highly efficient screw air-end, totally enclosed fan-cooled powerful electric motor, precise oil filter, oil/air separator element and modulating suction regulator...etc, built to a complete unit with perfect integration and highest reliable system.

特點

此系列空壓機含原裝進口高效率主機，堅實的全密封馬達，精密的油過濾器，油氣分離元件模組化的進氣調節系統，達到完美的組合及最高的信賴度。



Variable S

To Ensure Extremely Smooth Running Under Any Working Condition

任何的條件下，皆能穩定地運轉

**High
Reliability
Superior
Performance**



TS-75-VS

Easy Maintenance

- All inspection points are concentrated for easy maintenance and saving time.
- Easy to dismantle covers, control panels and filters to expedite service.
- No special tools are needed for maintenance.
- Running condition and operating history can be retained and achieved through the screen display.

易維護

- 所有定期檢查點集中化及維修簡易化，縮短維修時間。
- 易拆式門板、面板及過濾元件使維修快速化。
- 所有組件不需特殊工具即可拆卸。
- 維修保養可藉由功能完備控制面板清楚顯示維護運轉狀況。

Stable Pressure Control

- Equipped with advanced control system and safety protection to improve running efficiency, safety and reliability.
- Keep the pressure range within ± 0.1 bar and lessen the average working pressure.

恆壓控制

- 具先進控制系統與保護措施。使系統之運轉率及安全可靠性大幅提升。
- 維持工作壓力變動在 ± 0.1 bar 內，可降低平均工作壓力。

High Efficiency, Energy-Saving

- Will be able to run with variable speed under different working condition to save energy average 15%~30%.
- Variable-frequency compressor is able to run, under different loading condition, with operating optimization to ensure maximum air discharge quantity and energy-saving.
- Equipped with the leading brand high efficient control devices (frequency inverter, controller) to greatly lower down electricity consuming and operating costs.
- Equipped with high frequency inverter to change speed according to different loading condition and start-stop the motor smoothly.
- Lower down the power consumption under no-loading condition.
- Variable-frequency and fixed frequency are interchangeable to keep stable air supply and production will not be affected.
- Due to lower system pressure, the compressed air leakage is less and the electricity cost is lowered down.

高效率節能運轉佳

- 可根據現場各種運轉狀況，平均節電在15%~30%。
- 變頻空壓機在任何負荷條件之最佳化操控，確保最大排氣量與最小電力消耗。
- 使用世界領導品牌高效率之電控元件(變頻器、控制器)能降低電力成本和使用週期成本(LCC)。
- 內建變頻器用於空壓機速度改變和馬達平順啟動。
- 減少在無負荷時電力消耗。
- 系統具備變頻與定頻控制迴路，可依需要切換，使供氣品質提升，不致影響生產。
- 由於較小系統壓力使用，可降低電力成本。

Intelligent Inverter With Energy-saving Control System

智慧變頻節能控制系統

Features

1. With two independent drive units.
2. Variable speed module to start the compressor under un-loading condition and change the speed according to different air consumption.
3. The flexible system can integrate with several different compressor units altogether to save space.
4. To guarantee the most efficient power consumption operating.
5. Variable speed control module is set with minimum speed for un-loading start/stop function.
6. The variable speed control module is set with stable pressure running function to minimize power consumption.
7. The flexible control system can integrate with several different compressor units altogether to optimize energy-saving.
8. The variable speed control module can be disconnected for maintenance without interfering the normal operation of the unit.

特點

1. 具備獨特的雙驅動機能。
2. 變速型模式可無負載軟啟動，隨消費空氣之用量調控空壓機轉速。
3. 機型可多元彈性選項匹配多樣化安裝空間。
4. 確保空壓機之運轉能耗在最適切的彈性操控。
5. 變速型模式設有最低（依馬達適用特性）轉速方式之無負載運轉及停止功能。
6. 變速型模式設有“恆壓”轉速調控運轉，使所需之能耗最佳化。
7. 多機時，可以最佳之能耗方式規劃群組型運轉模式。
8. 變速型模式維修時具有備援能量，生產不影響。

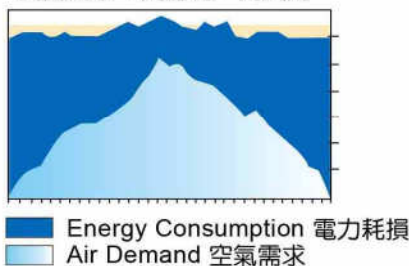


Comparison Of The Total Cost

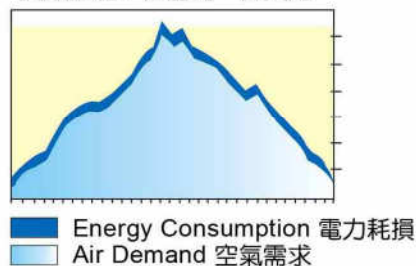
變頻空壓機節能效益

1. Under fluctuating air demand condition, the compressor is running alternatively with full-loading and un-loading, which will result in high energy consumption.
 2. With Inverter control, the running speed is variable according to different air demand and energy consumption will be greatly reduced.
1. 在定頻模式下，變動的壓縮空氣需求，空壓機工作在全負荷、無負荷條件，當在無負荷時，造成高能耗產生。
 2. 在變頻控制時，依空氣需求調控空壓機轉速，並有恆壓運轉功能，使電力耗損大幅降低。

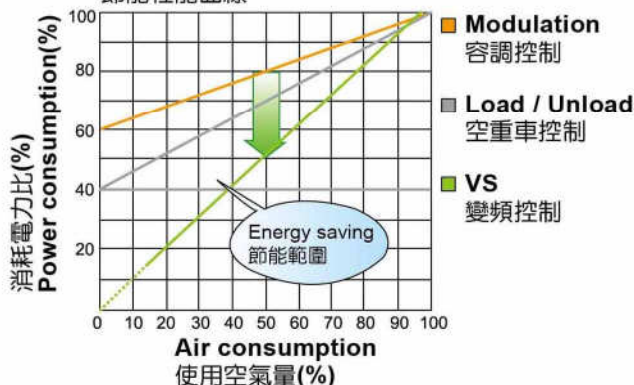
The high cost under fluctuating air demand
變動需求：高能耗，高費用



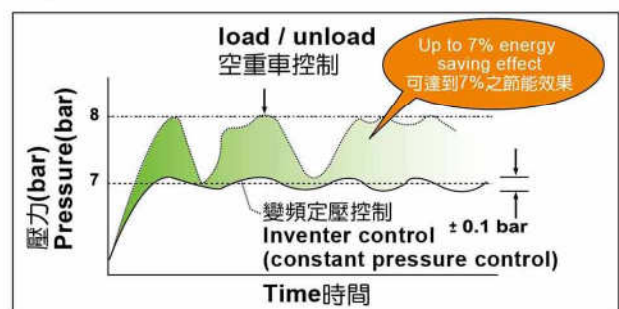
With vsd: Low energy consumption under fluctuating air demand
變頻控制：低能耗，低費用



Energy-saving performance graph
節能性能曲線



Energy saving with constant pressure control
節能的恆壓控制



TS-V Intelligent Variable Screw Air Compressor

TS-V變頻螺旋式空壓機

Easy Maintenance Stable Pressure Control

Integration Reliability Cost-saving

An inverter driven compressor is designed to change the speed of the main motor and reduce power consumption, results in energy saving and the best return on investment.



TS-55-VS

Model 型式	Specs. 規格		Motor (kw/hp) 馬力		Frequency (V) 電壓		Working Pressure (kg/cm ² .g) 使用壓力	排氣量 FAD (m ³ /min)	Cooling Type 冷卻方式	Air Delivery Connection 出口風徑	Noise Level dB(A) 噪音值	Weight (kg) 重量	Dimension LxWxH(mm) 外型尺寸
	50HZ	60HZ	50HZ	60HZ									
TS-15-VT	15	20	220.380.415.440	8.5 10 13	2 1.9 1.6	Air-cooled 氣冷式	G1	70±3	460	960x900x1050			
TS-15A-VT	15	20	220.380.415.440	8.5 10 13	2.2 1.9 1.6	Air-cooled 氣冷式	G1	70±3	560	1020x1020x1250			
TS-22-VT	22	30	220.380.415.440	8.5 10 13	3.4 3 2.4	Air-cooled 氣冷式	G1-1/4	70±3	685	1100x1200x1450			
TS-37-VT	37	50	220.380.415.440	8.5 10 13	5.9 5.3 4.5	Air-cooled 氣冷式	G1-1/2	74±3	975	1350x1350x1650			
TS-22-VS	22	30	220.380.415.440	8.5 10 13	3.4 3 2.5	Air-cooled 氣冷式	G1-1/4	70±3	720	1100x1200x1450			
TS-37-VS	37	50	220.380.415.440	8.5 10 13	5.29 5 4.2	Air-cooled 氣冷式	G1-1/2	74±3	975	1350x1350x1650			
TS-55-VS	55	75	220.380.415.440	8.5 10 13	8.6 7.8 6.6	Air-cooled 氣冷式	G2	76±3	1850	2000x1400x1650			
TS-75-VS	75	100	220.380.415.440	8.5 10 13	10.6 9.8 8.5	Air-cooled 氣冷式	G2	78±3	1950	2000x1400x1650			
TS-75-VD(50Hz)	75	100	220.380.415.440	8	11.6	Air-cooled 氣冷式	G2	77±3	2400	2500x1350x1700			
TS-75-VD(60Hz)				7	13.3								

※ Keep on developing for excellence, we reserve the right to alter specifications without prior notice.

※ Other special discharge, pressure and drive type are available upon request.

※ 本公司不斷研究改進，規格如有變更，恕不另行通知。

※ 規格外之壓力、排氣量、空壓設備，詳細資料歡迎與本公司洽詢。

TS-V

20~100HP High Efficiency 高效率 Energy-saving 節能



CE



ISO 9001:2015



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