

天鵝牌TS-V系列 智慧型變頻螺旋式空氣壓縮機
INTELLIGENT FREQUENCY SCREW AIR COMPRESSOR



變頻節能式空壓機

TS-V Series Variable Speed Screw Air Compressors

>>> 特點 Features

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。

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.

恆壓控制

- 具先進控制系統與保護措施，使系統之運轉率和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。

Stable Pressure Control

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

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)使降低電力成本和使用週期成本(LCC)降低。
- 內建變頻器用於空壓機速度改變和馬達平順啟動，同時加裝電抗器。
- 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。

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 operation 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 electricity-consuming and operating costs.
- Equipped with frequency inverter and electric reactor to change speed according to different loading condition and start-stop the motor smoothly.
- Lower the power-consumption under no-loading condition.
- Variable-frequency and fixed frequency are interchangeable to keep working pressure stable, and production will not be affected.
- Due to lower system pressure, the compressed air leakage is less and the electricity cost is lowered.



此系列空壓機含原裝進口的高效率主機，堅實的全密馬達，精密的油過濾系統，模組化的進氣調節系統，達到完美的組合及最高的信賴度。

The series of Compressor is equipped with highly efficient Screw Air-end, totally enclosed fan-cooled powerful electric Motor, precise oil Filtering/Separating components and modulating Suction Regulator.. etc, built to a complete Unit with perfect integration and highest reliable System.



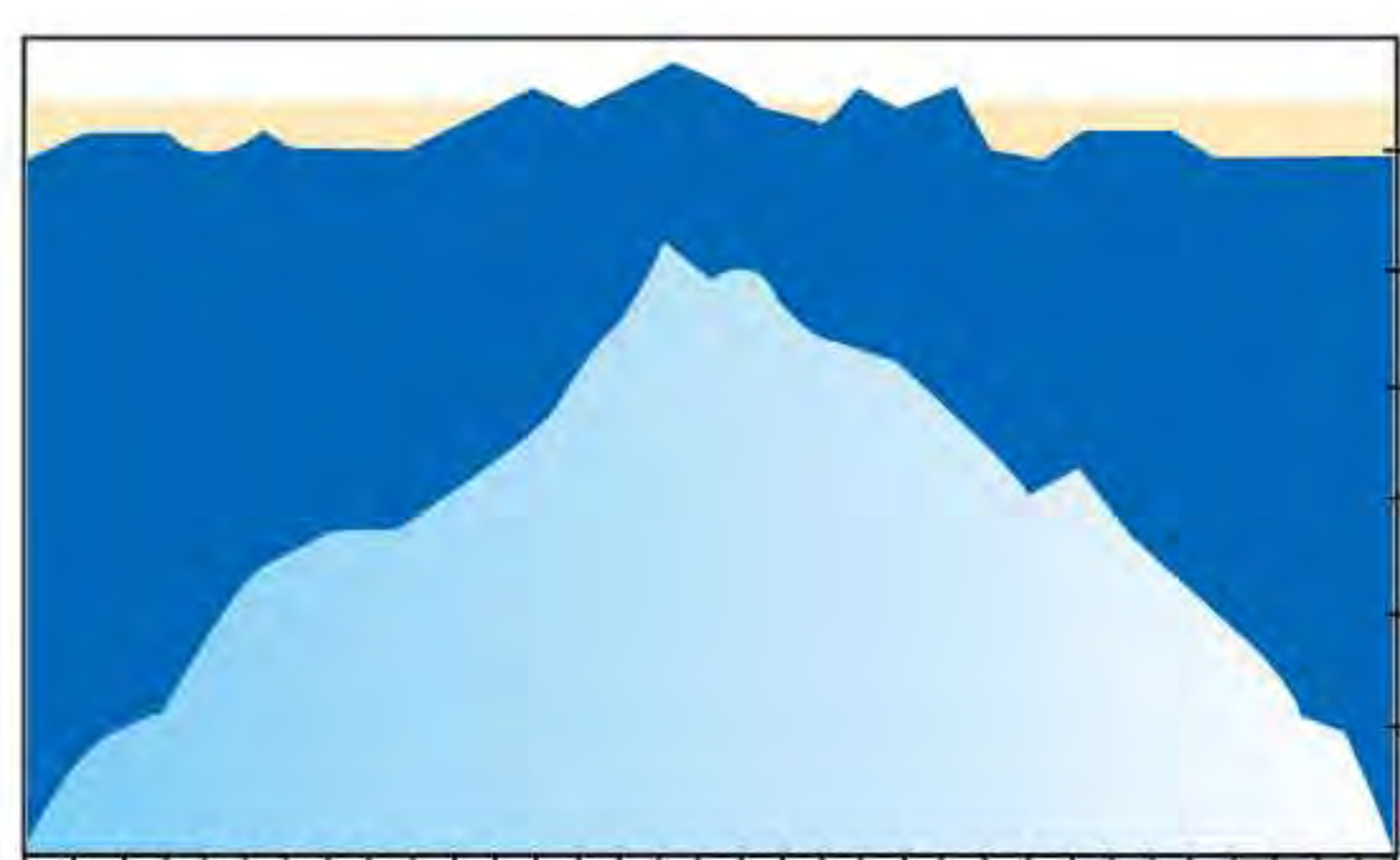
智慧變頻節能控制系統 *Intelligent Inverter with energy-saving control system*

1. 獨特的專利彈性複合式操控系統, 具備雙驅動機能。
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. 速控單元維修時特具有備援能量, 生產不影響。

1. Distinctive multi-functional control system 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 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.

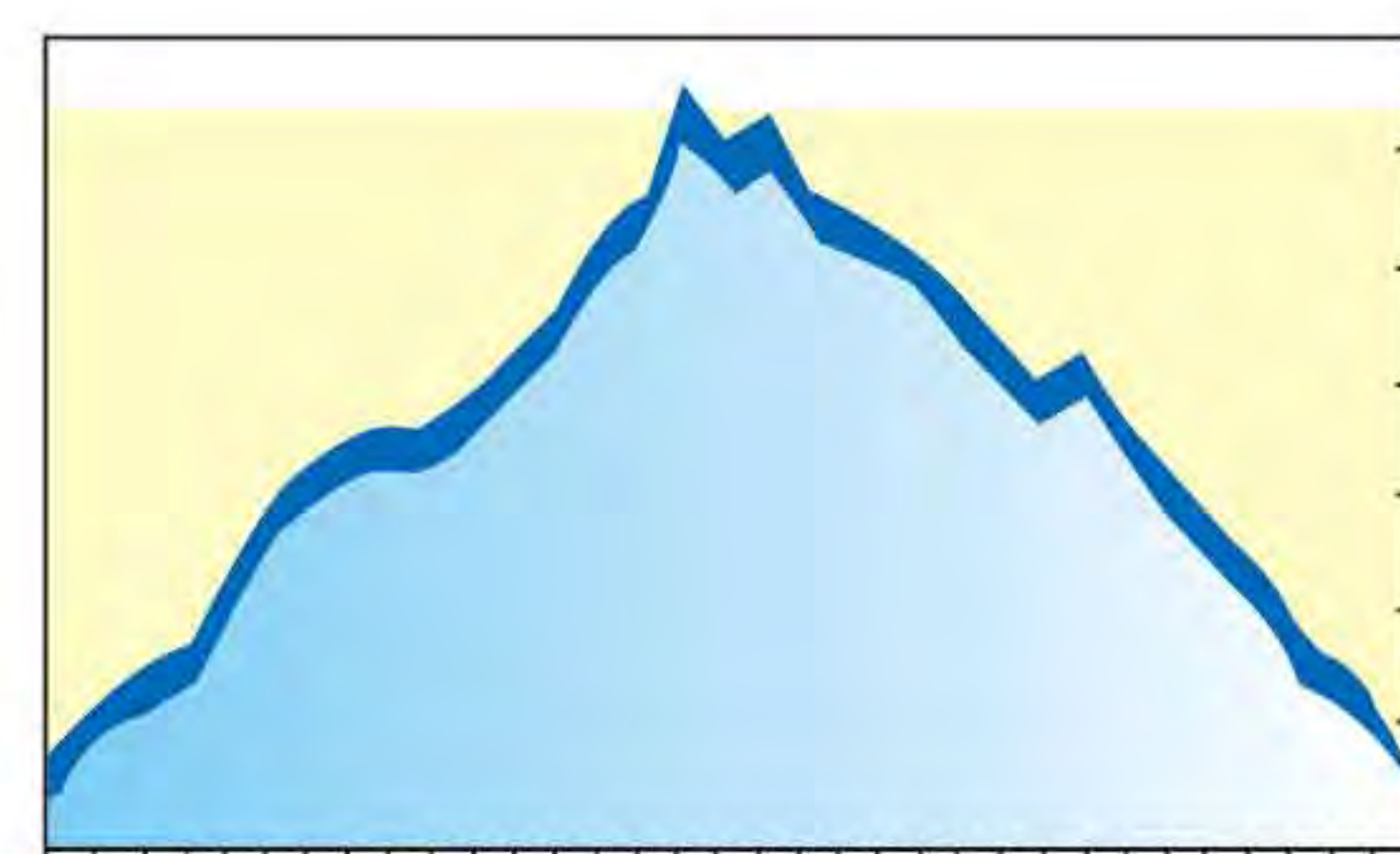
變頻空壓機節能效益 Comparison of the total cost

變動需求：高能耗，高費用
THE HIGH PRICE OF FLUCTUATING DEMAND



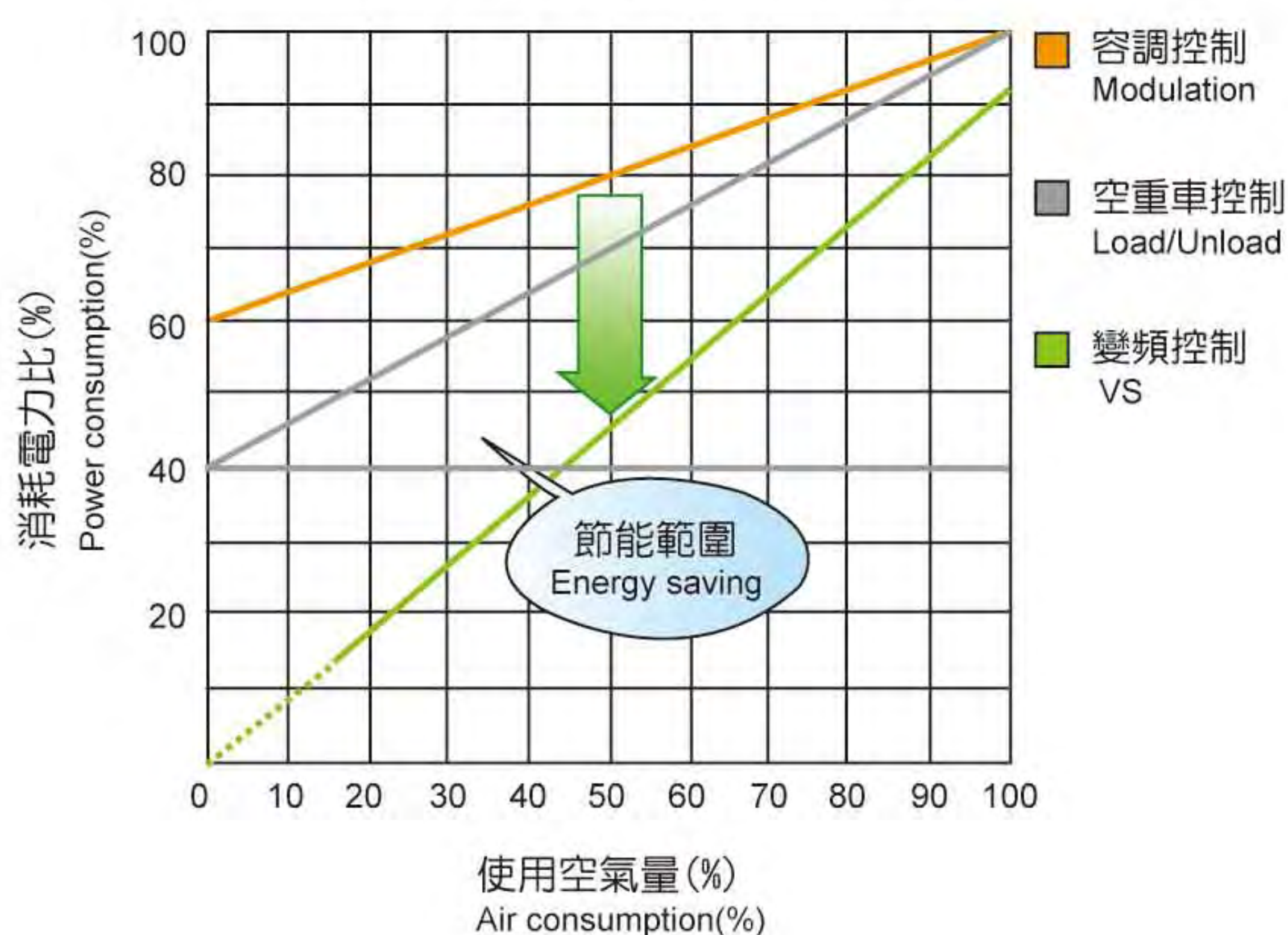
電力耗損 Energy Consumption
空氣需求 Air Demand

變頻控制：低能耗，低費用
VSD: VARIABLE VOLUME, CONTROLLED COSTS

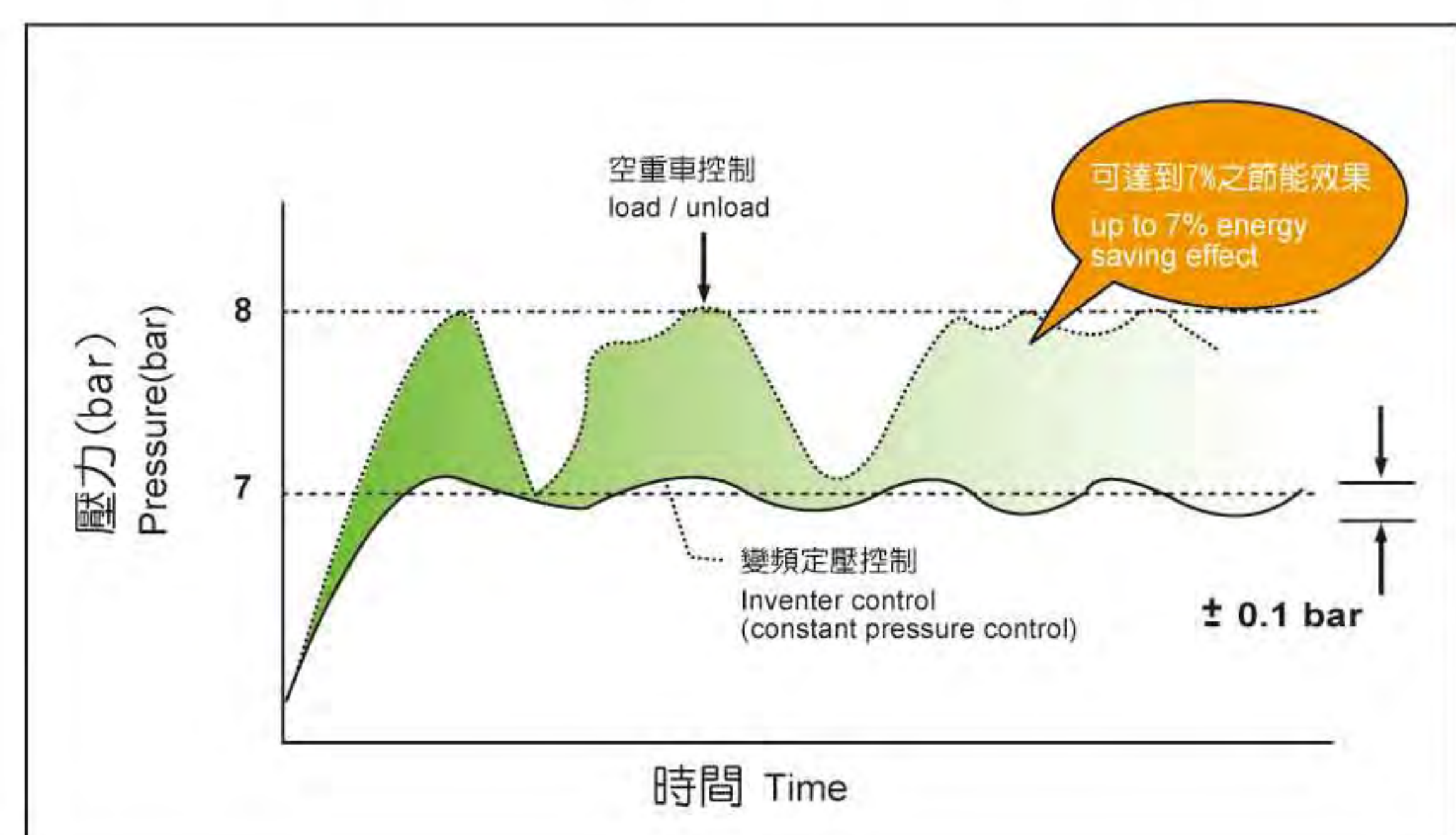


電力耗損 Energy Consumption
空氣需求 Air Demand

節能性能曲線
Energy-saving performance graph



節能的空壓控制
Energy saving with constant pressure control



變頻節能式空壓機

VST Series Variable Speed Screw Air Compressors

規格 Specifications

型式 Model	馬力 Motor Output kw (HP)	電壓頻率 Frequency (V/Hz)	工作壓力 Working Pressure (kg/cm ² .G)	排氣量 FAD (m ³ /min)	冷卻方式 Cooling	出口風徑 Air delivery connection	噪音 Noise dB(A)	重量 Weight (kgs)	外型尺寸 Dimension (mm) LxWxH
TS-15-VT	15(20)	220.380.415.440 / 50.60	8.5 10 13	2 1.9 1.6	氣冷式 Air-cooled	G1	70±3	460	960x900x1050
TS-15A-VT	15(20)	220.380.415.440 / 50.60	8.5 10 13	2.2 1.9 1.6	氣冷式 Air-cooled	G1	70±3	560	1020x1020x1250
TS-22-VT	22(30)	220.380.415.440 / 50.60	8.5 10 13	3.4 3 2.4	氣冷式 Air-cooled	G1-1/4	70±3	685	1100x1100x1350
TS-37-VT	37(50)	220.380.415.440 / 50.60	8.5 10 13	5.9 5.3 4.5	氣冷式 Air-cooled	G1-1/2	74±3	975	1350x1350x1650
TS-22-VS	22(30)	220.380.415.440 / 50.60	8.5 10 13	3.4 3 2.5	氣冷式 Air-cooled	G1-1/4	70±3	720	1100x1200x1450
TS-37-VS	37(50)	220.380.415.440 / 50.60	8.5 10 13	5.5 5 4.2	氣冷式 Air-cooled	G1-1/2	74±3	975	1350x1350x1650
TS-55-VS	55(75)	220.380.415.440 / 50.60	8.5 10 13	8.6 7.8 6.6	氣冷式 Air-cooled	G2	76±3	1850	1850x1400x1650
TS-75-VS	75(100)	220.380.415.440 / 50.60	8.5 10 13	10.6 9.8 8.5	氣冷式 Air-cooled	G2	78±3	1950	1850x1400x1650
TS-75-VD	75(100)	220.380.415.440 / 50.60	8	11.6/13.3	氣冷式 Air-cooled	G2	77±3	2400	2500x1350x1700

※本公司不斷研究改進，規格如有變更，恕不另行通知。

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

※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。

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

Variable Speed
Range 20~100hp
TS-15~TS-75

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

INTEGRATION
RELIABILITY
COST-SAVING





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