



BST Series

40kg/cm² High Pressure Booster Compressors



東正[®] 鐵工廠股份有限公司

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選用大豆油墨，守護地球
永續，實現美好未來。
Opt for soy ink, protect the Earth.
Sustainability, secure a brighter future.

TC201805AB

40kg/cm² High Pressure Booster Compressors

40kg/cm² 高壓增壓機組

No Need Of Engineering Foundation Works And Circulating Water Cooling System

With precision calibration balance to ensure running smoothly. With excellent cooling air circulating design, no cooling water needed.

免基礎、循環水系統

精密校正平衡，運轉更順暢，空氣冷卻氣流，免裝冷卻水。

Can Be Used With Both High Pressure And Low Pressure

Low pressure is applicable to general equipments, and boosted pressure is for specific high-pressure operation.

高低壓力，一次備齊

低壓適用一般廠用各項設備，高壓適用特定超高壓之作業。

Oil Alert For Safety And Automatic Overload Protection

Oil alert and overload protection will make sure the air compressor with free malfunction under general operation.

失油、超載自動保護

潤滑油設失油，負載設過載，完美保護設定，運轉零故障。

Enforced Lubrication, Selective Control Modes

Lubricating oil is filtered to perform enforced lubrication; Senior Automatic control mode is selectable according to different operating requirements.

強制潤滑，彈性選擇控制

潤滑油過濾潔淨與強制式潤滑，半、自動控制視作業條件選擇。

Applications

Bottles blowing, wells drilling, stamping, pneumatic blasting, leak testing, clamping, and other ultra-high pressure operations.

用途範圍

寶特瓶吹瓶、鑿井、衝壓、氣壓爆破、試漏、鉗物... 等超高壓作業。



BST-315

Patent Oil Recovery System

發明專利潤滑油回收系統

Oil Collector Assembly

Collect the oil through the ventilation unit and return them back to the crankcase to reduce the oil consumption.

集油桶組合

彙集通氣蓋之油氣，回收潤滑油再自動導入曲軸箱內部，大大降低潤滑油消耗量。

Ventilating Units Assembly

With special design, ventilating units assy. can effectively separate oil and gas generated by compressing air, and, thereby, creating a clean working environment.

通氣蓋組合

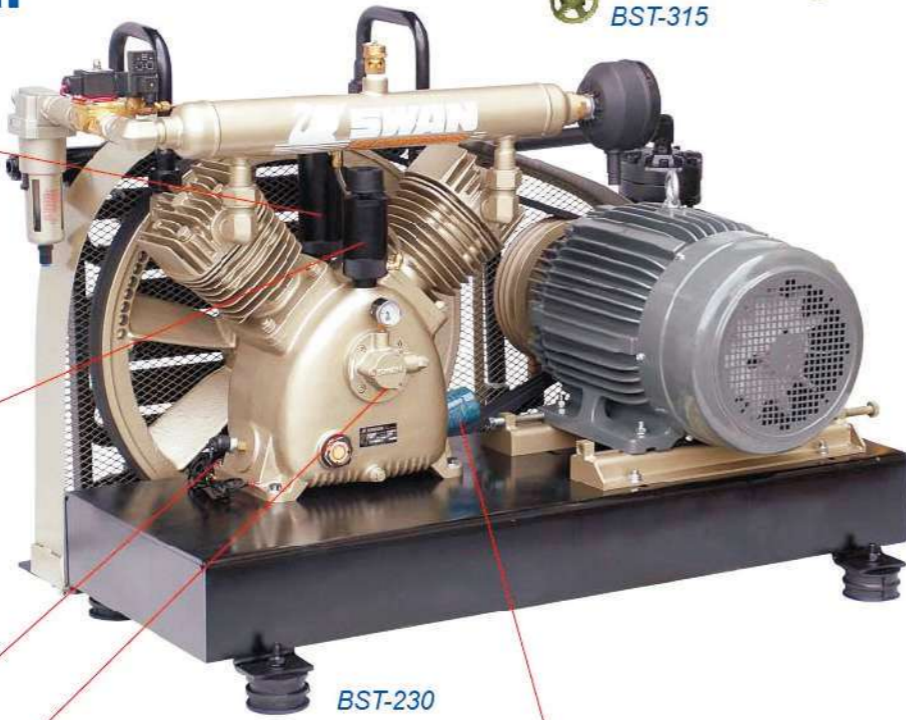
特殊設計，有效分離曲軸箱呼吸所產生之油氣，創造潔淨環保環境。

Precise Low Oil-Pressure Protecting Switch

Oil Alert — avoid the compressor being blocked without well oil lubricating.

精確的失油開關

失油開關保護，免束心之慮。



BST-230

Oil Pump

With appropriate oil lubricating quantity to greatly reduce oil consumption.

潤滑油幫浦

提供適量適壓之潤滑油，減少潤滑油消耗量。

Long-Lasting Oil Filter

Ensure clean lubricating oil supply by equipping with oil filter.

長效性潤滑油過濾系統

設有過濾裝置，提供潔淨潤滑油。

Model 型式	Specs 規格	Motor (kw/hp) 馬達	Inlet Pressure (kg/cm ² g) 進氣壓力	Discharge Pressure (kg/cm ² g) 排氣壓力	Design Pressure (kg/cm ² g) 設計壓力	Inlet Air Volume (l/min) 進氣量	F.A.D. (l/min) 實際排氣量	Air Tank Capacity (liter) 儲氣桶容量
BST-315	7.5	10	7	30	35	1495	1166	310
	11	15				2616	1749	
BST-230	19	25		40	45	3282	2370	
	22	30				4012	2905	

※ 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。

Swan BST Series Booster Features Description

A high efficient and flexible pressurization system especially developed for bottles blowing, deep well drilling, special clamping, high-pressure stamping/ leaking test.

天鵝牌增壓機BST系列特性說明

一套專為寶特瓶吹瓶、深井鑽探、特殊夾持、高壓沖壓、高壓檢測、高壓試漏等用途所開發的高效率，富彈性的增壓系統。

Free From Basic Installation And Water Cooling Issue

• A common base with anti-vibration design, providing stable operation and random installation convenience.
 • Air-cooled design: Cooling is provided by large cooling fan wheel, no power consumption of cooler, no piping problem of cooling water pipe.
 沒有基礎安裝和冷卻水的問題

• 共同底座附防震動的設計，提供穩定運轉和隨機安裝的方便。
 • 氣冷式設計：由大型冷卻風扇輪提供冷卻，沒有冷卻器的電力消耗，也沒有冷卻水管配管的問題。

Higher Efficiency, High Energy Efficiency Of Displacement

• The air inlet of the turbocharger is cooled and dried, and the compression efficiency is higher than that of the multistage compressor with atmosphere air as inlet.
 • The suction/ displacement volume of the is much larger than that of the same size air compressor.
 • Especially designed for high water-cooled high-pressure design, the efficiency difference is significant.

高效率、高排氣量的能源效益

• 增壓機進氣經過冷卻乾燥，壓縮效率較以空氣為進氣之多段式壓縮機為高。
 • 增壓機的進氣吸入量遠較相同體積之空壓機為大，其排氣量也大。
 • 專門為高壓增壓目的設計，較多段水冷高壓的設計，效率差異顯著。

Comprehensive Protection And Control

• Two kinds of control systems: automatic operation or continuous operation is selectable according to different demands.
 • Overload shutdown protection, and loss of oil shutdown protection.
 • With Idle running design to reduce mechanical wear after the air compressor start-up and before the air compressor shutdown.

周全的保護與控制

• 全自動運轉與連續運轉兩種控制，視需要選擇。
 • 過載停機保護，失油停機保護。
 • 啟動後及停機前皆行空車運轉的減低磨耗設計。

Comparison Between SWAN BST Series Booster And General Compressors

本產品 (BST系列) 與一般產品之比較

Model 型式	Product Specification 產品別	BST Series 本產品 (BST系列)	General Compressors 一般產品
Structure Design 結構設計	Air cooled type, air booster design, oil pump enforced lubrication, ase installation, removable. 空冷、增壓式設計、油泵潤滑、可移動式。	Air cooled type, air booster design, oil pump enforced lubrication, ase installation, removable. 空冷、增壓式設計、油泵潤滑、可移動式。	Multi-stage compression structures, oil pump enforced lubrication, fixed installing foundation. 水冷、多段壓縮結構、油泵潤滑、基礎固定式。
Compression 壓縮方式	Low-pressure inlet air, single-stage compression. 以低壓氣體為吸入源，單段式壓縮。	Low-pressure inlet air, single-stage compression. 以低壓氣體為吸入源，單段式壓縮。	The inlet air is from atmosphere, multi-stage compression. 以空氣密度氣體為吸入源，多段式壓縮。
Energy Efficiency 能源效益	High efficiency, high displacement, energy saving. 高效率，高排氣量，充分發揮省能源效益。	High efficiency, high displacement, energy saving. 高效率，高排氣量，充分發揮省能源效益。	Low efficiency, low displacement, wasting energy. 低效率，低排氣量，浪費能源效益。
Installation 安裝方式	Air cooled structure, no installing foundation required, space-saving. 空冷式整體結構，免基礎，免循環水系統，佔空間小。	Air cooled structure, no installing foundation required, space-saving. 空冷式整體結構，免基礎，免循環水系統，佔空間小。	Water-cooled, need to build an installing foundation and water cooling system, large-space needed. 水冷式，需建構基礎，配置冷水循環水系統，佔空間大。
Environmental-friendly Design 環保設計	Low pollution, low noise. 低污染、低噪音之作業環境。	Low pollution, low noise. 低污染、低噪音之作業環境。	General Compressors —High pollution, very noisy. 高污染、高噪音之作業環境。
Lubrication While Starting 初運轉潤滑	Crankshaft with oil storage design, can supply clean lubricant right away while starting to run. 曲軸儲油式設計，即時充分供給潔淨潤滑油。	Crankshaft with oil storage design, can supply clean lubricant right away while starting to run. 曲軸儲油式設計，即時充分供給潔淨潤滑油。	Can not supply lubricant in time while starting to run. 不易即時供給足夠潤滑油。
Control Mode 操控方式	Automatically change to auto or semi-auto mode due to different required air consuming quantity. No-load while starting/stopping the unit to avoid parts worn-out, and increase running life-time. 操作控制系統，隨作業需求轉換(全、半自動)。無負載啟動、停止，避免金屬間磨損，增長壽命。	Automatically change to auto or semi-auto mode due to different required air consuming quantity. No-load while starting/stopping the unit to avoid parts worn-out, and increase running life-time. 操作控制系統，隨作業需求轉換(全、半自動)。無負載啟動、停止，避免金屬間磨損，增長壽命。	With single control mode and can't change the running condition automatically. Lower energy efficiency. Always under loading condition while starting / stopping the unit and can't establish the lubricating oil protection in time to extend running life-time. 個別控制，不易隨作業需求調控，能源效益低。負載啟動、停止，潤滑油膜不易建立，機件壽命較低。

BST Series

BST系列

Flexible Design For Sharing High And Low Air

Pressure Source In The Plant

• Use plant air as the air supply to the booster. Do not have to buy two sets of independent high and low air pressure system, cost savings, and flexible to use too.

高低氣源共用的彈性設計

• 增壓機氣源使用廠用空氣，亦即廠用空氣與高壓空氣共用氣源，不必購買兩套獨立的高低壓系統，節約成本，也富使用上的彈性。

Oil Pump Enforced Lubricating System With

Pressure-resistant Rigid Structure

• Low oil pressure protection for oil pump lubrication.
 • The oil filter ensures the running parts under well lubricating with clean oil.
 • The whole structure is rigid and strong, the important components such as crankcase, cylinder, connecting rod, bearings,... etc. are adopted with high quality materials and with overload-resistant design.

油泵強制潤滑的耐高壓強力結構

• 油泵強制潤滑附低油壓保護、潤滑確實。
 • 裝置油過濾器做潤滑油潔淨，作動部分得到真正的潤滑。
 • 整體結構堅實強固，重要組件如曲軸箱、汽缸、連桿、軸承等皆採用高級材料並超荷設計。

Save Installation Space, Simple Structure,

Easy Maintenance

• Low noise, no foundation installation needed, you can freely choose the appropriate place to install.
 • With air-cooled design, small size, can save up to 50% of the installation space.
 • With high overload-resistant design, and oil recovery device. Structure is simple, and easy to maintenance. No worry about long-term operation.

節省安裝空間、構造簡單、維護容易

• 噪音低，不必基礎安裝，可以自由選擇適當地方安裝。
 • 氣冷式，體積小，可節省50%的安裝空間。
 • 高負荷設計，附油氣回收裝置，結構簡單，保養容易，長期運轉沒煩惱。