



PERMANENT MAGNET VARIABLE SPEED SCREW AIR COMPRESSOR 7.5 kW-250 kW

WE TAKE CARE OF YOUR COMPRESSED AIR

PROFESSIONAL AIR COMPRESSOR MANUFACTURER



Verdes(Guangzhou)Technology Co., Ltd
ADD: 75 Yonghe Economic Development Zone, Guangzhou, Guangdong
Wechat/Whatsapp/Tel: 15360875152
WEB: WWW.VDCOMPRESOR.COM



7.5-315kW

DISCLAIMER: This parameter list is for reference only. We may adjust the related parameter. If there is any change, we will not inform you otherwise. If you do not know, please call us.

VDS SERIES
VDS 10 - 350
PERMANENT MAGNET MOTOR
VSD SCREW AIR COMPRESSOR
7.5 kW-250 kW

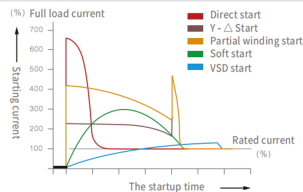
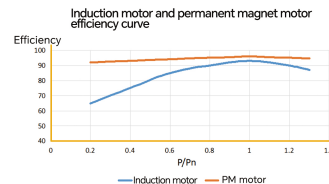
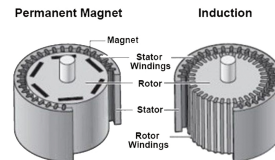


**Save
Energy
35-40%**



Permanent Magnet Motor

- PM motor with high-performance neodymium iron boron (NdFeB) magnets
- The service life is more than 15 years
- Cancels the loss of the excitation system which improves efficiency 5%-12%
- The level 1 energy saving PM motor
- Compact structure, Small size, Light weight
it cancel the excitation winding and the excitation power (magnetic pole core), the structure is simple reliable operation and easy maintain
- High precision, fast response, bigger starting torque



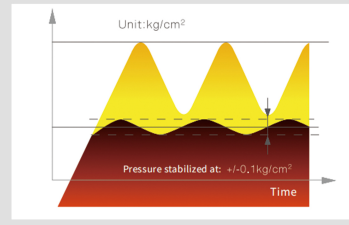
Smooth start

No generating surge current

- Through system control, the characteristic of variable frequency drive is that the motor starts smoothly
- The motor always runs below the rated current
- Effectively avoid the expensive cost of surge current generation

Constant pressure control

- Provide the necessary amount of air with the necessary pressure
- the pressure is stable below ± 0.1 bar.
- Saving energy, no pressure loss energy consumption



Energy Saving Solution

Compared with the fixed speed compressor, PM-VSD compressor, can save electric charge more than

75,356 kWh/year.

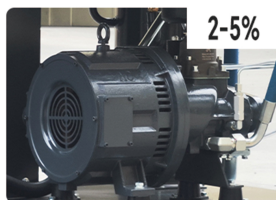
$52,123 \text{kw.h} + 9,680 \text{kw.h} + 13,552 \text{kw.h} = 75,356 \text{kw.h/year}$

(above data is the 37kw screw air compressor industry data, your factory actual saving value is depends on actual using condition)



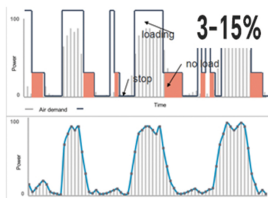
Smart inverter

Advanced motor control technology. A wide speed control range of frequency converter prevents unnecessary power consumption for no-load operation



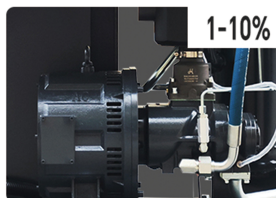
Permanent magnet motor

High efficiency IE3 Permanent magnet motor reduce energy costs



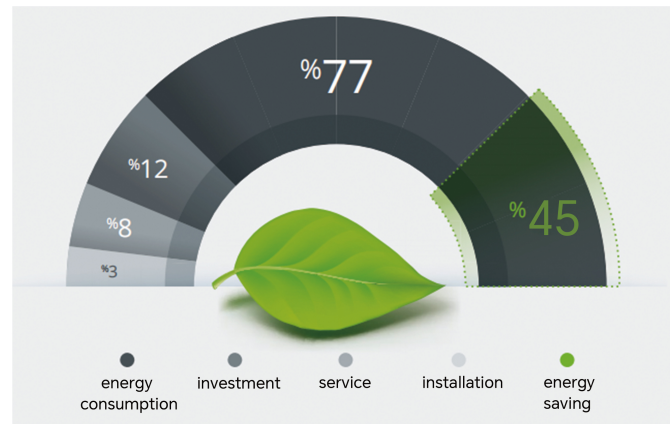
No unnecessary pressure

Constant pressure setting reduce the pressure drop, 1 bar of unnecessarily high pressure corresponds to about 7% of the energy



Lossless direct drive

The direct connect in between the air-end and motor has reduce transmission loss for 100% efficiency



Visible Cost Reductions

When purchasing industrial air compressors, adopt a forward-looking approach by prioritizing total lifecycle costs—including energy efficiency, maintenance, and operational expenses—over mere upfront purchase price. This strategic perspective ensures long-term value and sustainability

? Why Energy Efficiency

Energy costs represent about 77% of the total operation costs of your compressor. That is why efficiently reducing the energy consumption of your compressed air installation should be a major focus.

? Why Variable Speed

As a majority of customers have a variable demand for compressed air, variable speed compressor is superior VS fixed speed compressor in terms of energy saving by perfectly matching air supply to air demand of avoiding unloading losses.

? Why Permanent Magnet Motor

Permanent magnet is a high efficiency motor combines our variable speed technology with our new and highly efficient drive train, resulting in energy saving of up to 40%.

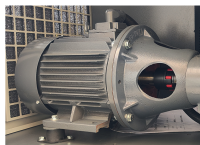
HIGH QUALITY KEY COMPONENTS

Ensuring product quality, stability, efficiency, and energy efficiency



RELIABLE AIR-END

- Over Sized Air-end , Low Speed ,No Overheat Problem
- The screw air-end is the core, with high-precision rotors ensuring enhanced stability, longer lifespan, and higher energy efficiency.
- 8 sets of SKF brand bearings ensure the stability and long service life of the compressor air- end.



PERMANENT MAGNET MOTOR

- Integrates high efficiency permanent magnet motor with high-performance neodymium iron boron (NdFeB) magnets
- IP54 dust/water resistance, and Class F insulation, it operates reliably in extreme temperatures from -30°C to 60°C,



SMART INVERTER

- Advanced control technology for PM motor driver
- Proportional motor speed control as per variable air pressure
- Industrial grade EMC protection,C2 and C3 specifications meeting there quirements of different power grids



SMART CONTROL PANEL

- Adopt a 7-inch touch screen panel(supports multiple languages)
- Monitor & control key compressor functions
Protect compressor in the event of faults
(Overload, high temperature)
- Provide service required information(Replacement time for air filter, oil filter, oil gas separator, and lubricating oil)
- Control panel has the remind&record funtion, show the compressor situation clearly

Technical Parameter

VDS Series Permanent Magnet VSD Screw Air Compressor

Type	Power		Max. Working Pressure		F.A.D		Noise	Connection	Dimension (mm) L*W*H	Weight
	kw	hp	bar	psi	m³/min	cfm				
VDS10	7.5	10	8	116	1.0	38.8	68±2	Rp1/2	900*670*880	179
			10	145	0.9	31.8				
VDS15	11	15	8	116	1.88	66.4	68±2	Rp3/4	1080*750*1000	290
			10	145	1.2	42.4				
VDS20	15	20	8	116	2.2	77.7	68±2	Rp3/4	1080*750*1000	306
			10	145	1.9	67.1				
VDS25	18.5	25	8	116	3.0	105.9	68±2	Rp1	1380*850*1160	420
			10	145	2.2	77.7				
VDS30	22	30	8	116	3.6	127.1	68±2	Rp1	1380*850*1160	424
			10	145	3.2	113.0				
VDS40	30	40	8	116	5.0	176.6	70±2	Rp1	1380*850*1160	455
			10	145	4.2	148.3				
VDS50	37	50	8	116	6.2	218.9	70±2	Rp1 1/2	1500*1000*1330	641
			10	145	5.3	185.4				
VDS60	45	60	8	116	7.3	257.8	72±2	Rp1 1/2	1500*1100*1510	685
			10	145	6.6	233.0				
VDS75	55	75	8	116	9.2	324.9	72±2	Rp2	1800*1250*1670	1130
			10	145	8.2	289.5				
VDS100	75	100	8	116	12.6	444.9	75±2	Rp2	1800*1250*1670	1215
			10	145	11.0	388.4				
VDS120	90	120	8	116	15	529.7	75±2	Rp2	1900*1250*1810	1230
			10	145	13.8	487.3				
VDS150	110	150	8	116	19.8	699.1	79±2	DN65	2330*1470*1840	1870
			10	145	16.8	593.2				
VDS175	132	175	8	116	22.1	780.4	79±2	DN65	2330*1470*1840	1990
			10	145	19.5	688.5				
VDS215	160	215	8	116	28.5	1006.5	79±2	DN100	3250*2100*2200	3200
			10	145	22.8	805.2				
VDS250	185	250	8	116	30.0	1059.4	82±2	DN100	3250*2100*2200	3600
			10	145	28.0	988.8				
VDS270	200	270	8	116	32.5	1147.7	82±2	DN125	2550*2300*2300	4500
			10	145	29.2	1031.2				
VDS300	220	300	8	116	38.0	1342.0	82±2	DN125	2550*2300*2300	5500
			10	145	33.0	1165.4				

-According to the standard of GB 19153-2009

-Compressor stage:One stage compression

-Standard power supply:380V/50Hz/3Ph

-Exhaust temperature:Ambient Temperature+15

-Please contact us for any specification that is not within the above mentioned standards.