

# INNOVATING FOR STABLE PERFORMANCE

## VERDES AIR COMPRESSOR

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# HIGH PRESSURE SCREW AIR COMPRESSOR

Built for demanding industrial air systems



Disclaimer: The parameters listed are for reference only and are subject to change without prior notice. Please contact us for the most current specifications.

# OPENING STATEMENT

High-pressure compressed air is not about pushing numbers higher. It is about stability, safety margins, and long-term operational reliability.

In high-pressure applications, every fluctuation increases risk, downtime, and cost. That is why high-pressure systems must be engineered differently — from the core, not adjusted afterward.

# WHY HIGH PRESSURE NEEDS A DIFFERENT DESIGN LOGIC

High-pressure operation introduces significantly higher thermal load, mechanical stress, and system sensitivity.

Unlike standard compressors, high-pressure systems must operate continuously under strict control, where failure is not an option.

# PRODUCT OVERVIEW

High Pressure Screw Air Compressor  
Designed for continuous industrial operation

Pressure Range: 20 bar / 25 bar / 30 bar  
Power Range: Customized for demanding applications

Typical Applications: PET bottle blowing, laser cutting, pressure testing, heavy industry



# SAVING ENERGY 30%-50%



**25-30 Bar**  
Wide Pressure Range



**30-50%**  
Power Saving



## HEAVY-DUTY AIREND FOR HIGH PRESSURE OPERATION

- The air-end is the heart of any high-pressure compressor.
- Our high-pressure airends are specifically designed for increased internal pressure, mechanical load, and continuous operation
- Optimized rotor profiles and reinforced structures ensure stable compression efficiency and extended service life under demanding conditions.

## PERMANENT MAGNET MOTOR

- PM motor with high-performance neodymium iron boron (NdFeB) magnets
- The service life is more than 15 years
- The level 1 energy saving PM motor
- Cancels the loss of the excitation system which improves efficiency 5%-12%

## SMART TOUCH SCREEN PANEL

- Supports multiple languages
- Control panel has the remind & record function, Display the compressor situation clearly
- Monitor & control key compressor functions



## OIL SEPARATION & AIR QUALITY CONTROL

- The oil separation system is designed to maintain consistent pressure drop and separation efficiency over long operating periods, ensuring reliable air quality and system stability.



Type	Power		Max. Working Pressure		F.A.D		Weight kg	Dimension (mm) L*W*H
	kw	hp	bar	psi	m³/min	cfm		
VDSH15	11	15	25	362	0.9	31.8	290	1080*750*1000
VDSH20	15	20	30	435	1.0	35.3	306	1080*750*1000
VDSH30	22	30	25	362	2.0	70.6	424	1380*850*1160
VDSH40	30	40	25	362	3.0	105.9	455	1380*850*1160
VDSH50	37	50	30	435	3.2	113.0	641	1500*1000*1330
VDSH75	55	75	25	362	5.4	190.7	1130	1800*1250*1670
VDSH100	75	100	25	362	7.0	247.2	1230	1800*1250*1670
VDSH125	90	125	25	362	9.1	321.4	1230	1900*1250*1810
VDSH150	110	150	25	362	11.5	406.1	1870	2330*1470*1840
VDSH180	132	180	25	362	14.2	501.5	1990	2330*1470*1840
VDSH220	160	220	25	362	16.0	565.0	3200	3250*2100*2200
VDSH250	185	250	25	362	19.0	671.0	3600	3250*2100*2200
VDSH270	200	270	25	362	23.0	812.2	4500	-
VDSH300	220	300	30	435	21.5	759.3	-	-
VDSH340	250	340	25	362	27.0	953.6	-	-
VDSH380	280	380	25	362	29.0	1041.8	-	-
			30	435	26.5	935.8	-	-