

PERMANENT MAGNET SCREW COMPRESSOR

[Products \(index.html\)](#) / Permanent Magnet Screw Compressor

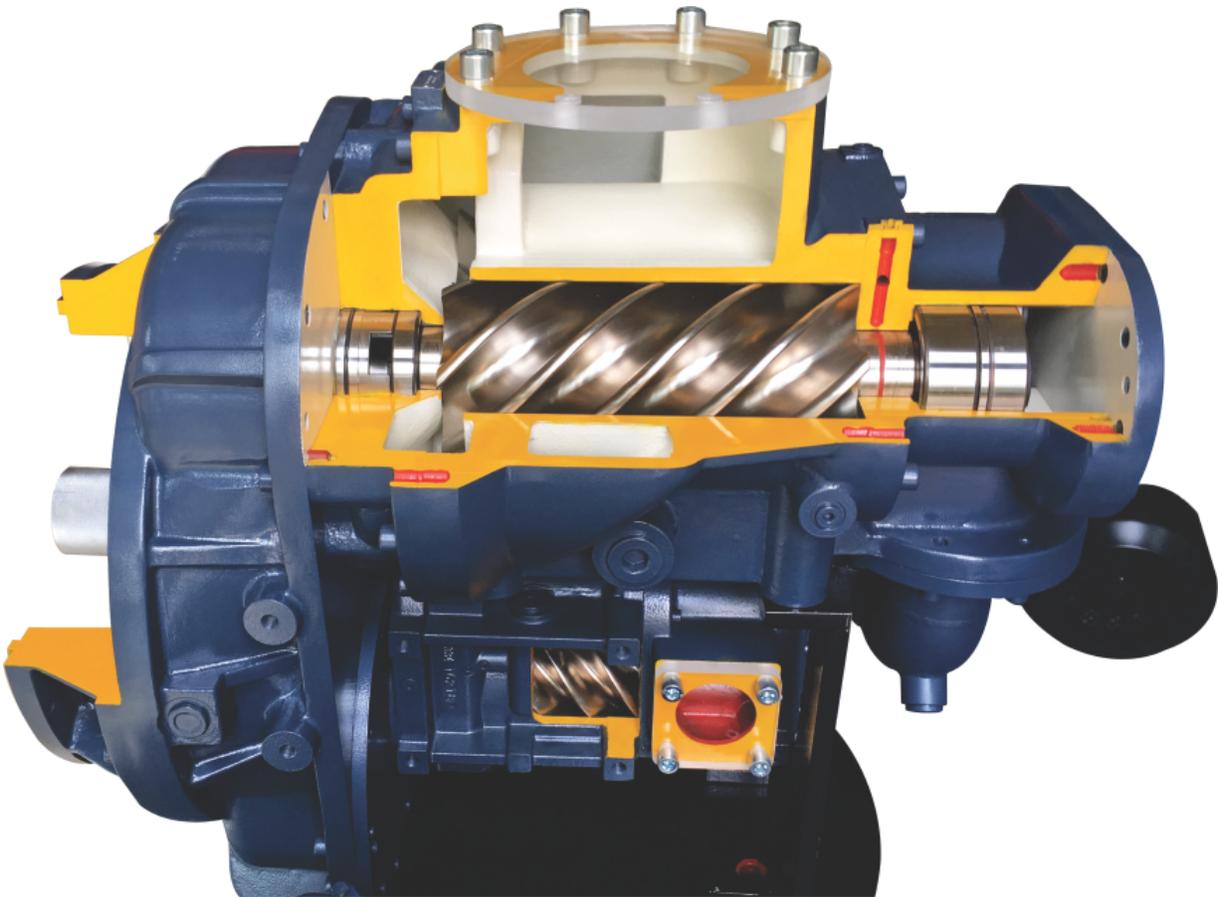
Energy saving efficiency —

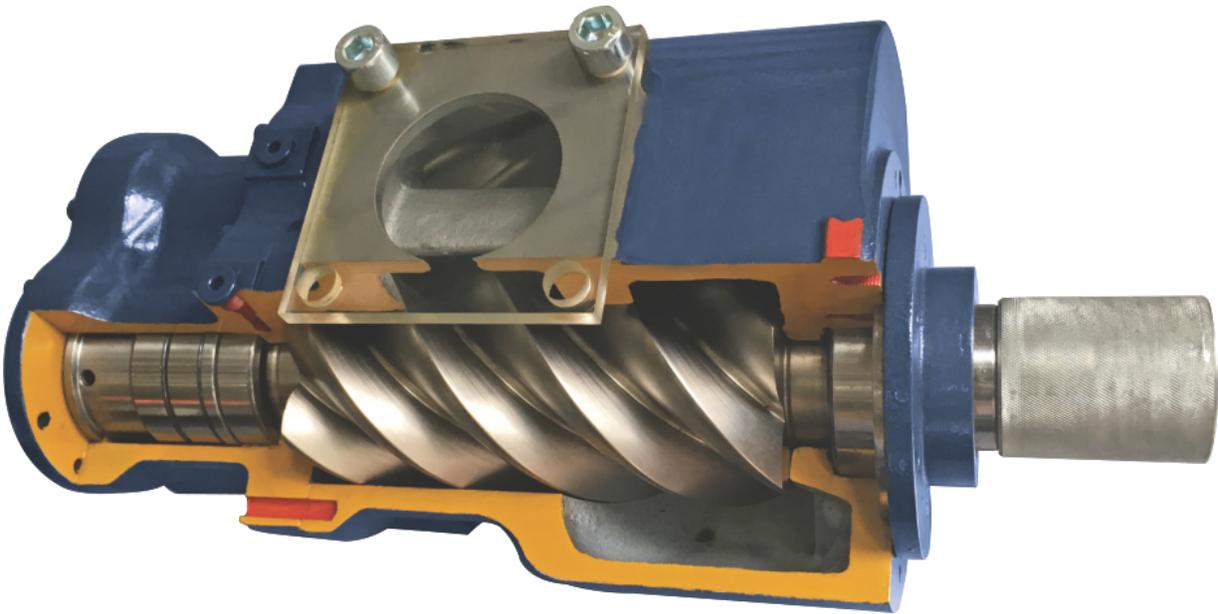
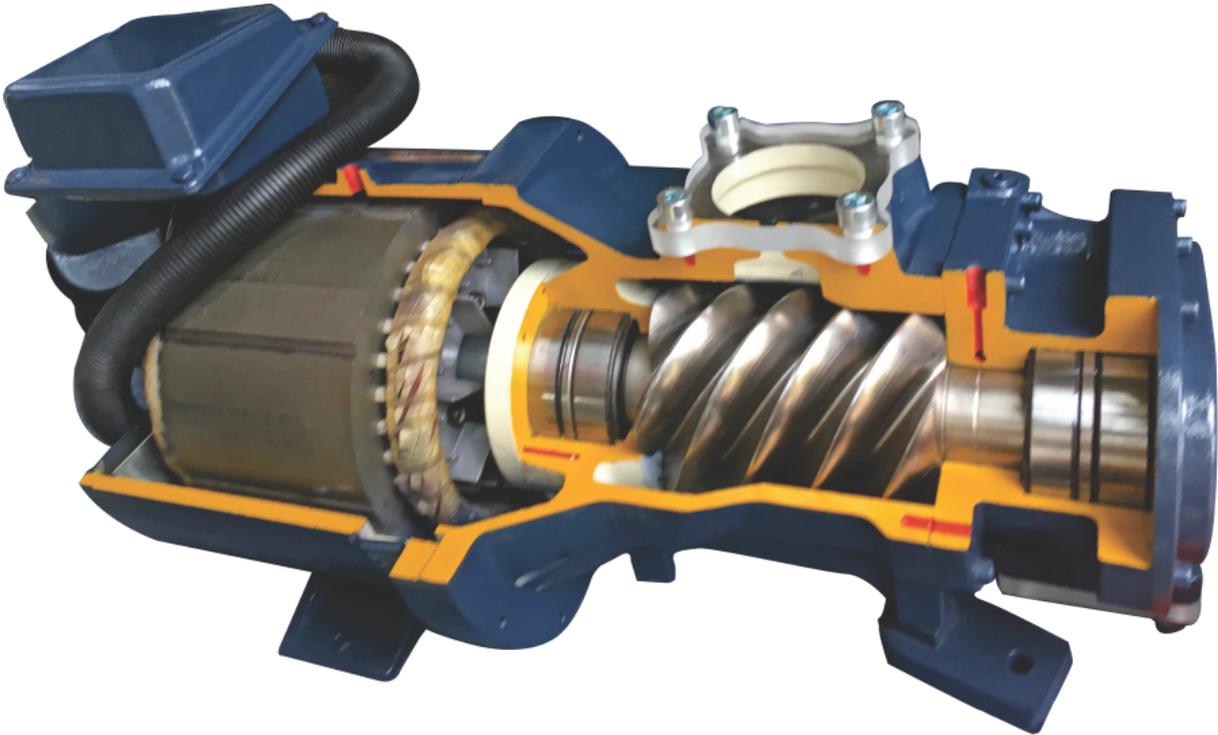
Under full load condition, permanent magnet compressors can supply the maximum air output under the minimum energy consumption, and when the load rate is lower by 20%, can still guarantee the efficiency. permanent magnet compressors always stays as much as 95% of running efficiency within the scope of the whole gas regulating speed. Save bandwidth control pressure waste of electricity (Variable frequency energy saving): In order to avoid the frequent starts that result in the cause to the unit, the impact on the grid, stationary compressor must set up a minimum of 1bar pressure range (The minimum and maximum pressure of the air compressor), the control of machine needs to have a pressure gradient when some units are used together, the pressure of the system will be wider VENUS series are of variable frequency control, can start and stop with unlimited times, so no need to set the pressure range, it only needs to set a pressure point, every saving of 0.14 bar pressure range, it will save the energy consumption by 5-7% for the whole system. VENUS series double screw host with its continuous optimization of rotor type line and internal structure, provides industry leading level specific power. The host energy efficiency is above the first level of energy efficiency of the national standard

The incomparable reliability +

Working condition of energy saving +

- The remarkable technology** +
- Saving energy when it starts up(Variable frequencyenergy saving)** +
- One shaft structure** +
- Screw host:** +
- High efficiency permanent magnet motor** +
- Drive charac teristics of VENUS series double screw host with efficient permanent magnet compressor** +





Model	Power	RPM	Free Air & Delivery	Working & Pressure	Noise	Machine & Dimension	Air & Outlet

Model	KW Power	Max. RPM	CFM Air & Delivery	Mpa Pressure	db Noise	(L*W*H)mm/(Weight)KG Machine & Dimension	Inch Outlet
	KW	Max.	CFM	Mpa	db	(L*W*H)mm/(Weight)KG	Inch
TSC- 15 PMV	11	300	65.34	0.80	62±2	980*710*1030/330	G3/4
			49.44	1.00			
			46.27	1.30			
TSC -20 PMV	15	300	85.07	0.80	62±2	980*710*1030/380	G3/4
			70.6	1.00			
			60.04	1.30			
TSC -25 PMV	18.5	300	113.02	0.80	62±2	1310*780*1220/500	G1"
			95.36	1.00			
			77.70	1.30			
TSC -30 PMV	22	300	134.21	0.80	72±2	1490*950*1210/530	G1"
			113.02	1.00			
			98.90	1.30			
TSC -40 PMV	30	300	183.66	0.80	72±2	1620*1120*1400/745	G1 ½"
			137.75	1.00			
			123.62	1.30			
TSC -50 PMV	37	300	240.17	0.80	72±2	1620*1120*1400/780	G1 ½"
			190.73	1.00			
			137.75	1.30			
TSC -60 PMV	45	300	282.56	0.80	75±2	1620*1120*1400/870	G1 ½"
			247.24	1.00			
			215.45	1.30			
TSC -75 PMV	55	300	370.86	0.80	75±2	2020*1370*1660/1040	G 2"
			307.28	1.00			
			264.90	1.30			

Model	Power	RPM	Free Air & Delivery	Working & Pressure	Noise	Machine & Dimension	Air & Outlet
	KW	Max.	CFM	Mpa	db	(L*W*H)mm/(Weight)KG	Inch
TSC -100 PMV	75	300	480.35	0.80	75±2	1850*1080*1635/1360	G 2"
			409.71	1.00			
			346.13	1.30			
TSC -120 PMV	90	300	575.71	0.80	78±2	2200*1380*1750/2150	G2 ½ "
			515.67	1.00			
			434.43	1.30			
TSC -150 PMV	110	300	716.99	0.80	78±2	2210*1310*1900/2360	G2 ½ "
			600.44	1.00			
			515.67	1.30			
TSC -175 PMV	132	300	883.00	0.80	78±2	2210*1310*1900/3150	G2 ½ "
			706.40	1.00			
			635.76	1.30			
TSC -200 PMV	160	300	956.63	0.80	78±2	2700*1460*2010/3480	G3"
			801.31	1.00			
			709.93	1.30			

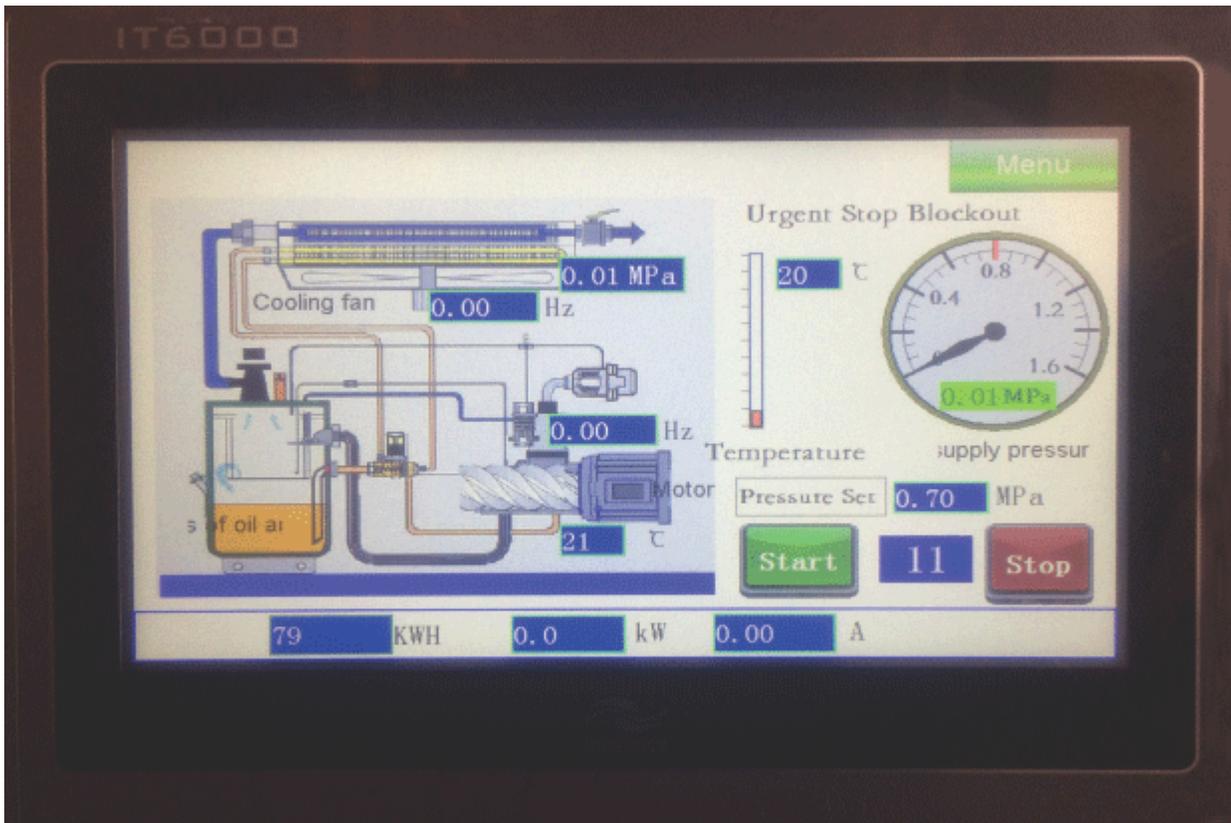
Benefits of Permanent Magnetic Motor

The benefits of PERMANENTMAGNET field-excited motors over electromagnetically-excited motors include:

Higher efficiency since no electrical energy is used or losses incurred for developing or maintaining the motors magnetic field. Higher torque and power density. Linear torque speed characteristics that are more predictable Better dynamic performance due to higher magnetic flux density in air gap Simplified construction and essentially maintenance-free More compact size Less bearing current due to large air gap. Low temperature due to less rotor losses Ramp up time-shorter, constant power up to maximum speed.



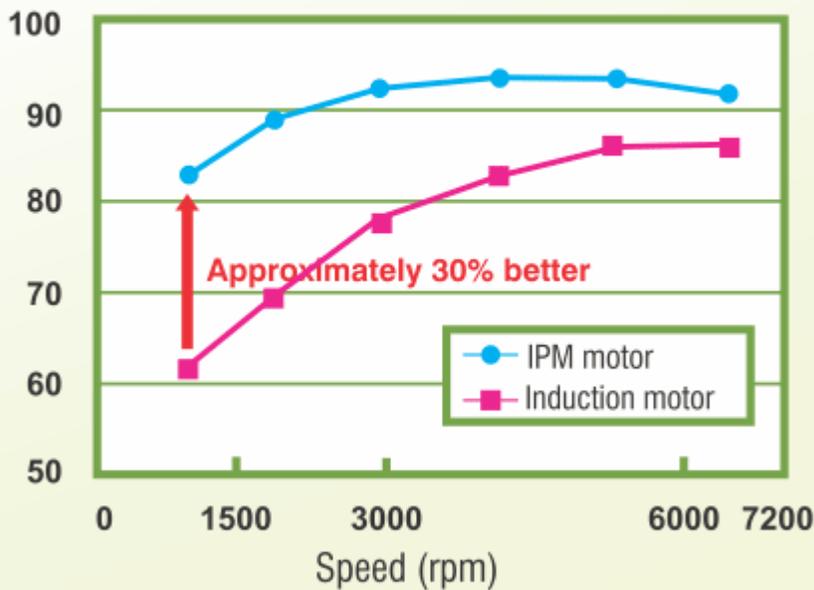
Touch Graphics PLC Controller



Induction Controller

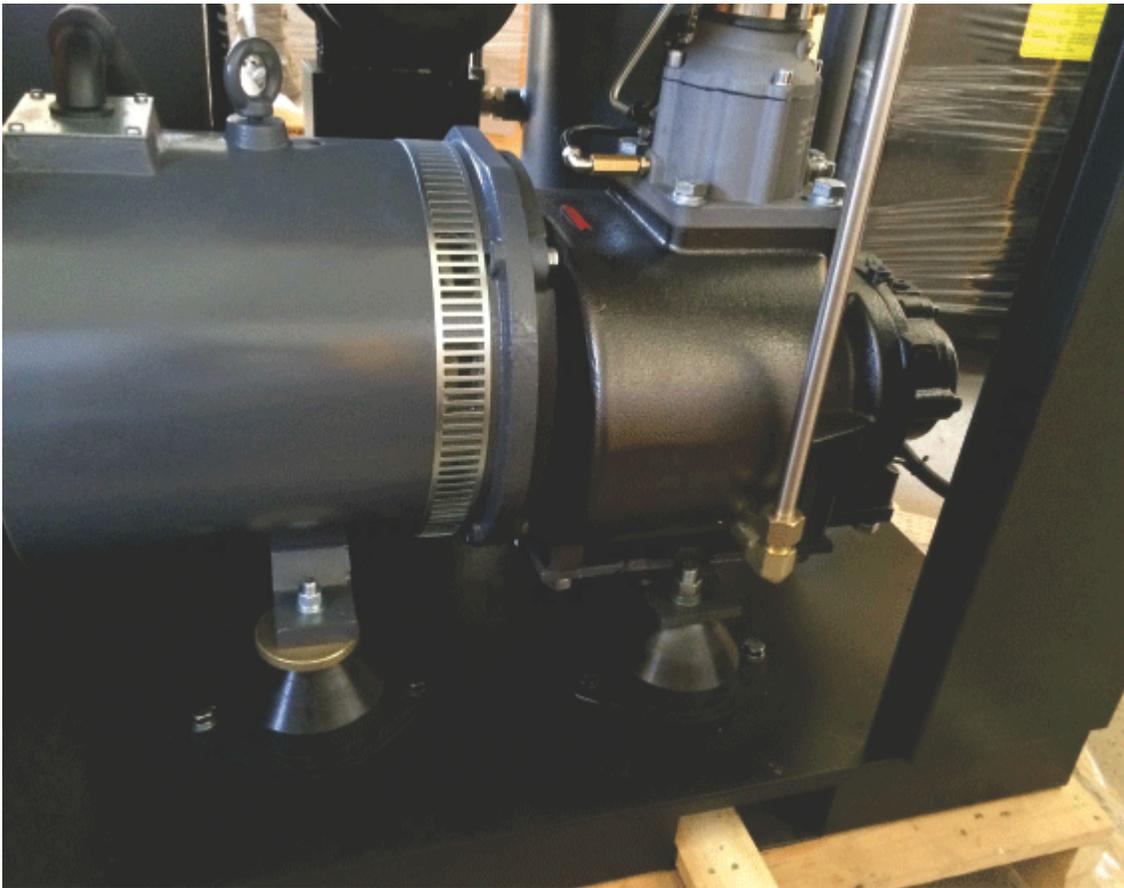
Comparison of Efficiency of IPM Motor and Induction Motor⁻³

Motor Efficiency(%)



⁻³ Journal of the Institute of Electrical Engineers of Japan D, Vol. 118-D, No.6 p. 813 (June 1998)

Direct Drive



Shaft Less Motor



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Design By Cross Concepts