

## Our Operation:

FACTORY: Shanghai, CHINA / Taichung, TAIWAN  
SALES OFFICE: Pacific (Australia / NZ), Brasil, USA  
AGENTS: INDIA / VIETNAM / GERMANY / UK

[www.emaxpowers.com](http://www.emaxpowers.com)

## Distribution



# ROTARY SCREW AIR COMPRESSOR



**Safe and Reliable, No Vibration, Low Noise.  
Fixed Frequency and Variable Frequency double  
design, more energy saving**



ROTARY SCREW AIR COMPRESSOR



ISO 9001



**Shanghai Factory**



**American Factory**

## About Us

Emax power (Shanghai) Co., Ltd. , is the full amount of investment subsidiary of the United States Eerfine Inc. Eerfine Group is a manufacturing and sales if air compressors comprehensive mainly engaged in air compressor business has been 45 years of history, now in North America, industrial air compressor market-leading.

Emax power (Shanghai) Co., Ltd. Is located in Jiading District, Shanghai , covers an area of 15,000 square meters, have transport facilities, hardware equipped. During the long term of overseas market development and continuous process of upgrading the product., Company's business have been successfully building out a stable, young and creativity and entrepreneurial spirit of professional technical and business management team.

Company to develop and produce high equality piston and screw compressor driven civil, rational layout and structure of industrial produces. Company to enhance self-innovation and improving the core technical capabilities for long-term strategies. Now we had received a number of domestic and foreign patent invention and use of new certification form its own technical features. Through the use of our superb technical ability, and with a combination of international brands supporting parts and strict quality management, our products have passed the North American UL European CE,TUV/GS and other various certified and sold the United States, Canada, Australia, Spain and other 35 countries.

Emax power (Shanghai) Co., Ltd., will use in Shanghai, China's regional advantages, based in China, look to the global market. With "passion, responsible, self-confidence, breakthrough" for the enterprise core values, mission is to "create quality products, service customers around the world" concept, in good faith with the majority of friends at home and abroad cooperate continuous to maintain foreign market to the advantage of expanding domestic market. We are willing to genuine enthusiasm and sincere service, looking forward to cooperating with you and become your business partner.

## CERTIFICATES

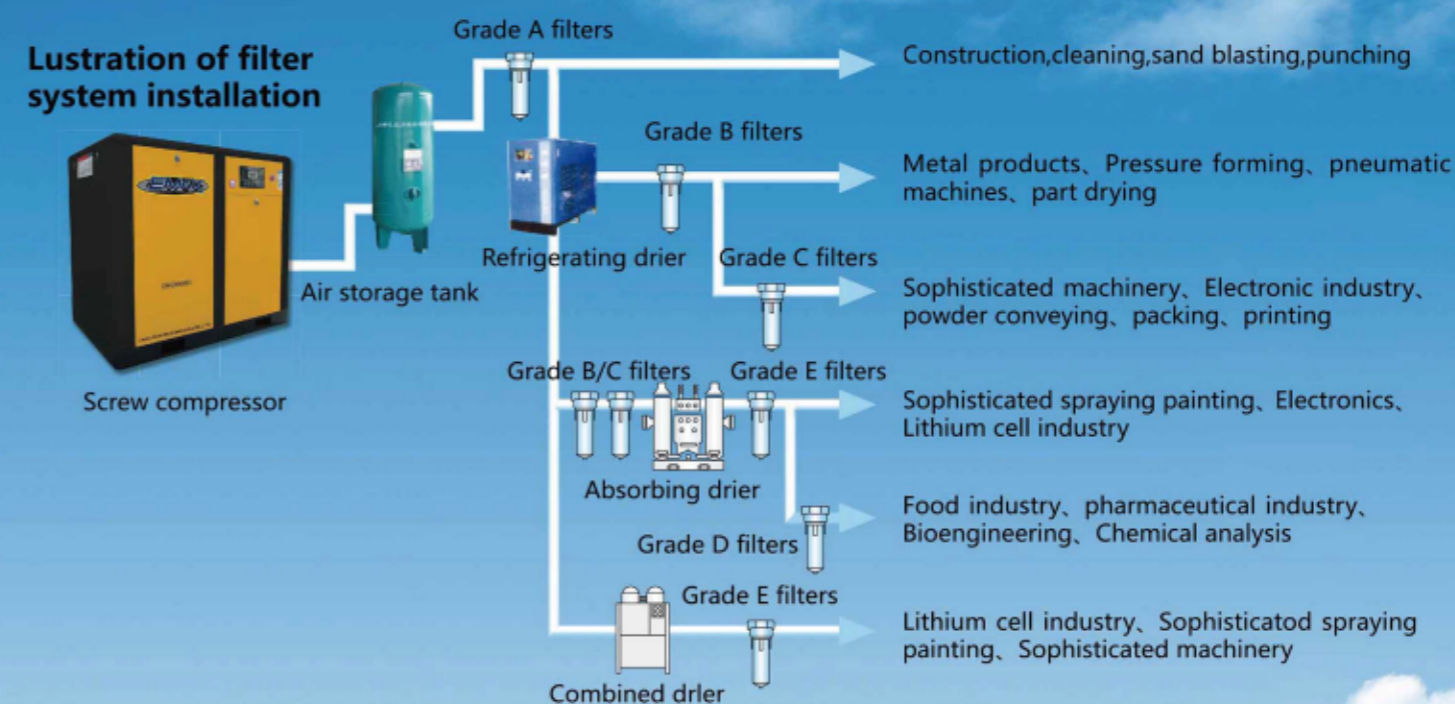


**Outstanding host, stable and reliable, high efficiency and energy saving.**

**Best products allocation, economic, reliable, durable**



Screw rotors(air end), with the length/diameter rate being rational, the tangent speed of the rotor is only 30-36m/s, much lower than that of an ordinary air compressor: 60m/s. There is a space of 0.03 inch between rotors, thus no wearing. The gear ratio is small, so the return loss is small, increasing the efficiency by 10-12% and saving electrical power by 20%. The service life of the air end is extended because of using SKF bearing from Sweden.



## Our operation philosophy:

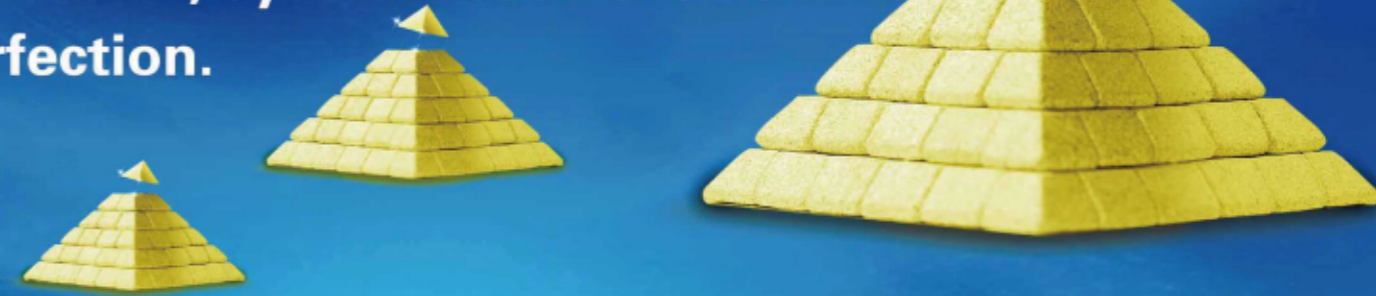
The customer is God, Customer benefit is of the top, Maximize the interests of customers. We trust Emax company will bring you brand new feelings.

## Our quality policy:

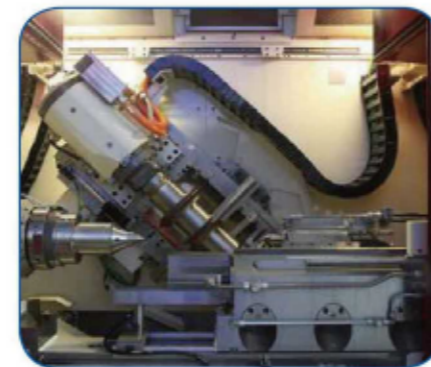
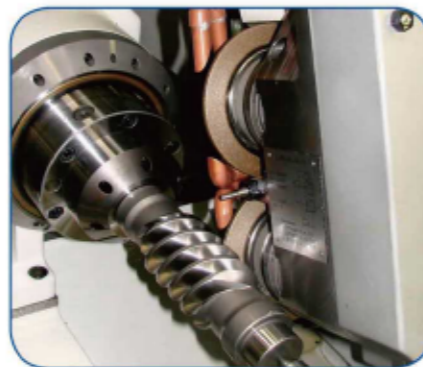
Excellent performance, excellent quality. Adhering Emax tradition of always paying attention to customer needs, seeking excellent quality.



Excellent performance, originated from the world final product allocation, system reach the acme of perfection.



Superior manufacturing equipment, sharp tools make good work.



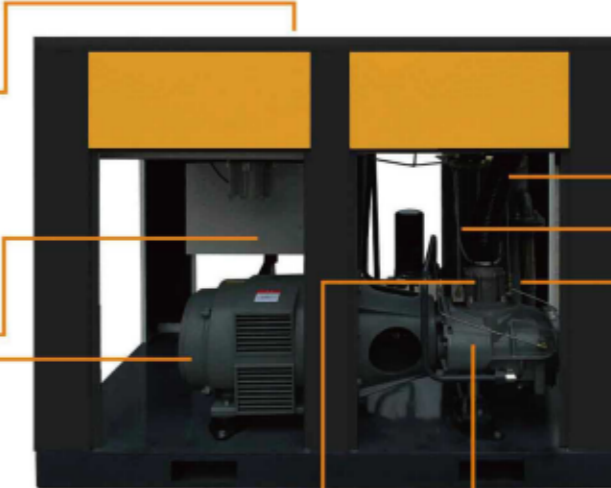
**Control Panel**  
English and Chinese control system, easy to operate unattended for 24 hours at work automatically.



**Electricity**  
Main electrical components use German Siemens brand, greatly improving the service life.



**Motor**  
Using well-known brand high-performance motor, SKF high load bearing, using full axes winding, can sustain 115 degrees, high class insulation.



**Inlet Valve**  
World-renowned brands, air output can be automatically adjusted from 0 to 100%, reducing operation cost.



**Air End**  
Original air end technology is from Europe, the powerful heart decides the high performance of the whole.



**Inlet Air Filter**  
Efficient heavy inlet filter ensures the quality of the inlet air and safety of the air end, greatly improves the life.



**Oil/Air Separator**  
Built-in high efficiency oil/air separator core, ensures the low oil content in the compressor to be 1-2ppm.



**Oil Filter**  
Rotary oil filter, have the impurity in the oil thoroughly filtrated, ensures the oil cleaning and extends the compressor life.



## SCREW AIR COMPRESSOR - BELT DRIVEN

Model	Power kw	Free air deliver m <sup>3</sup> /min	Discharge pressure MPa	Dimension length*width*height (mm) L*W*H	Weight kg	Air outlet Pipe Diameter
TSC-7.5A	5.5	0.85	0.7	800×720×950	240	3/4"
		0.78	0.8			
		0.65	1.0			
		0.55	1.2			
TSC-10A	7.5	1.2	0.7	800×720×950	250	3/4"
		1.1	0.8			
		0.9	1.0			
		0.75	1.2			
TSC-15A	11	1.65	0.7	950×800×1160	350	3/4"
		1.5	0.8			
		1.3	1.0			
		1.1	1.2			
TSC-20A	15	2.5	0.7	950×800×1160	400	3/4"
		2.3	0.8			
		2.1	1.0			
		1.9	1.2			
TSC-25A	18.5	3.2	0.7	1150×900×1380	550	1"
		3.0	0.8			
		2.7	1.0			
		2.4	1.2			
TSC-30A	22	3.8	0.7	1150×900×1380	600	1"
		3.6	0.8			
		3.2	1.0			
		2.7	1.2			
TSC-40A	30	5.3	0.7	1150×900×1380	650	1"
		5.0	0.8			
		4.5	1.0			
		4.0	1.2			
TSC-50A	37	6.8	0.7	1320×1000×1500	800	1 1/2"
		6.2	0.8			
		5.6	1.0			
		5.0	1.2			
TSC-60A	45	7.4	0.7	1320×1000×1500	900	1 1/2"
		7.0	0.8			
		6.2	1.0			
		5.6	1.2			
TSC-75A	55	10.0	0.7	1600×1170×1580	1300	2"
		9.2	0.8			
		8.5	1.0			
		7.6	1.2			
TSC-100A	75	13.4	0.7	1800×1250×1670	1500	2"
		12.6	0.8			
		11.2	1.0			
		10.0	1.2			
TSC-120A	90	16.1	0.7	1800×1250×1670	1700	2"
		15.0	0.8			
		13.8	1.0			
		12.6	1.2			

Other air output pressure compressors(up to 16 bar) if you want, welcome to inquire.

The company on product improvement and reserves the right of design improvement parameters are subject to change without prior notice.

### Vector variable frequency controlling technology principles

EMAX series variable frequency air compressors adopt vector technology, which ensures the motor drive smoothly the compressor in the most suitable torque by its least temperature rising, and also the machine speeding scope is much wider. Vector controlling technology divides stator electric current into excitation and torque and controls them separately, then combines them and transforms it to be the controlling signal of the transducer parameter, to achieve the efficient control of the electromagnetic torque.

Thus ensures the motor run at lower temperature even if under a lower speed. This high efficient conversion technology makes the noise and harmful harmonic wave to a lowest level, is much better than ordinary transducer. By using this new generation specialized vector variable frequency control can convert the direct current to alternating current, enhance the ability of anti high-temperature and obtains much more conversion efficiency, saves the energy cost and enhances the reliability.

### Energy saving advantage No.1 of the variable frequency compressor: variable flow, avoiding the waste of controlling loading and unloading.

Variable frequency compressor, by its speed changing control technology, produces air supply perfectly according to users' requirement, not only reduces the high-loaded running current but also avoids the waste of energy by 45% as its rating power.



## SCREW AIR COMPRESSOR - DIRECT DRIVEN

Model	Power kw	Free air deliver m <sup>3</sup> /min	Discharge pressure MPa	Dimension length*width*height (mm) L*W*H	Weight kg	Air outlet Pipe Diameter
TSC-20D	15kw	2.5	0.7	1200×750×1020	420	3/4"
TSC-25D	18.5kw	3.2	0.7	1380×850×1170	550	1"
		3.0	0.8			
TSC-30D	22kw	3.9	0.5	1380×850×1170	600	1"
		3.8	0.7			
		3.6	0.8			
		3.2	1.0			
TSC-40D	30kw	2.8	1.2	1380×850×1170	650	1"
		5.5	0.5			
		5.3	0.7			
		5.0	0.8			
TSC-50D	37kw	4.5	1.0	1500×1000×1320	850	1 1/2"
		4.0	1.2			
		6.8	0.5			
		6.7	0.7			
TSC-60D	45kw	6.2	0.8	1500×1000×1320	900	1 1/2"
		5.6	1.0			
		7.4	0.7			
		7.0	0.8			
TSC-75D	55kw	4.9	1.2	1900×1250×1600	1700	2"
		7.6	0.5			
		7.4	0.7			
		7.0	0.8			
TSC-80D	45kw	6.2	1.0	1500×1000×1320	900	1 1/2"
		5.6	1.2			
		10.2	0.5			
		10.0	0.7			
TSC-100D	75kw	9.2	0.8	2000×1250×1670	1850	2"
		8.5	1.0			
		7.6	1.2			
		14.0	0.4			
TSC-120D	90kw	13.5	0.5	2000×1250×1670	1950	2"
		13.4	0.7			
		12.6	0.8			
		11.2	1.0			
TSC-150D	110kw	11.2	1.0	2700×1470×1840	2700	DN65 (Water pipe diameter 2 1/2" )
		10.0	1.2			
		9.1	1.3			
		16.2	0.7			
TSC-175D	132kw	16.8	0.4	2700×1470×1840	2900	DN65 (Water pipe diameter 2 1/2" )
		16.5	0.5			
		15.0	0.8			
		13.8	1.0			
TSC-200D	160kw	13.8	1.0	2700×1470×1840	3200	DN65 (Water pipe diameter 2 1/2" )
		12.6	1.2			
		11.5	1.3			
		11.5	1.3			
TSC-250D	185kw	14.0	0.4	3200×2000×2050	3500	DN80 (Water pipe diameter 3")
		13.5	0.5			
		13.4	0.7			
		12.6	0.8			
TSC-300D	220kw	11.2	1.0	3200×2000×2050	4000	DN80 (Water pipe diameter 3")
		10.0	1.2			
		16.8	0.4			
		16.5	0.5			
TSC-350D	250kw	16.2	0.7	3200×2000×2050	4500	DN100
		15.0	0.8			
		13.8	1.0			
		12.3	1.2			
TSC-430D	315kw	13.4	0.7	3500×2000×2050	6000	DN110
		12.6	0.8			
		11.2	1.0			
		10.0	1.2			
TSC-480D	355kw	16.8	0.4	3500×2000×2050	6500	DN110
		16.5	0.5			
		15.0	0.8			
		13.8	1.0			
TSC-540D	400kw	14.0	0.4	3800×2000×2050	7200	DN120
		13.5	0.5			
		13.4	0.7			
		12.6	0.8			

Other air output pressure compressors(up to 16 bar) if you want, welcome to inquire.

The company on product improvement and reserves the right of design improvement parameters are subject to change without prior notice.

### Energy saving advantage No.2 of the variable frequency compressor: maintain the pressure and supply the air, avoiding the waste of pressure gap by 2 bar.

Variable frequency compressor maintains the pressure at 6 bar and supply the air constantly, not only ensure the stable air supply pressure but also avoids the high-loaded current waste caused by 2 bar pressure gap.

# Environment friendly plate heat exchanged air dryer series

With stainless steel made of plate heat exchanger, it completely avoids rusty risk of inner pipe line system and enables customer to get clean compressed air, international recognized R410a environmental friendly refrigerant has no hurt to ozone sphere at all, working pressure can be 1.6 times of R22 refrigerant, it not only creates stronger refrigerating capacity but also greatly elevating dryer's working accuracy.



# MF series precision filter

Precision filter effectively filtrate water, dust, oil mist and other impurities in compressed air by intercepting, inertia, diffusion and gravity to make compressed air cleaner and drier, enhance the compressed air quality.



### Compressor

Adopt Japan **Panasonic, Daikin** compressor, low vibration, low noise, reliable and high efficiency.

### Stainless steel plate heat exchanger

Stainless steel made of plate heat exchanger makes sufficient contact between heat transfer medium and plate surface, no heat exchanging dead angle, no need to have drain hole, no hernia problem, thus, the compressed air can be 100% heat exchanged, guarantee the stability of air dew point.



### Hot air bypass valve assembly

The energy regulation system including expansion valve and bypass valve able to automatically adjust the refrigerating capacity, avoid ice-block due to too much refrigerating capacity, and help save energy in some ways.

### Intelligent interactive microcomputer controller

1. Real time data acquisition of evaporating temperature and condensing temperature, once the temperature exceeds the preset value, the system will give alarm and read error code.
2. Strong fault protection shutdown function, all faults can be transferred to microcomputer through sensor automatically including overheat, overvoltage, overcurrent etc., enable the dryer to safety stop at first time.
3. Unique system pressure balance function, after dryer shutdown, preset some times for bypass valve to open to balance the system pressure, enable the compressor easier to restart.
4. Automatically identify normal shutdown and unexpected power outage, in unexpected power outage case, the microcomputer will do self-check before restarting the machine.
5. Drain preset function, customer can preset drain time according to actual working condition.



- Grade C, main pipe line filter, usually put after air compressor, aftercooler or before refrigerated dryer, capable to filtrate liquid and solid particles bigger than 3µ m, the minimum residual oil molecule of air after filtration can reach 5ppm.
- Grade T, dedusting filter, usually put before tools, machinery, motor, cylinder, other equipment and grade A filter or after desiccant dryer, capable to filtrate liquid and solid particles down to 1µ m, the minimum residual oil molecule of air after filtration can reach 0.5ppm.
- Grade A, super-efficient oil filter, usually put before desiccant dryer or after refrigerated dryer, capable to filtrate liquid and solid particles down to 0.01µ m, the minimum residual oil molecule of air after filtration can reach 0.01ppm. It is a must to put a grade T filter before grade A filter.
- Grade H, active carbon micro oil mist filter, usually for cleansing air for food, medicine and breath, capable to filtrate oil mist and hydrocarbon down to 0.01µ m, the minimum residual oil molecule of air after filtration can reach 0.003ppm. It is a must to put a grade A filter before grade H filter.



Grade	C	T	A	H
Function	Pre filtration	Precise filtration	Super precise filtration	Active carbon filtration
Diameter of particle	≤3µ m	≤1µ m	≤0.01µ m	≤0.01µ m
Residual oil	≤5ppm	≤0.5ppm	≤0.01ppm	≤0.003ppm

## Specifications

Model No.	Max. capacity (Nm <sup>3</sup> /min)	Connector Diameter (INCH)	Max. pressure (Bar)	Remark
MF-001	1.2	G1/2" ~ 1"	10	1. Max working pressure: ≤1.0Mpa 2. Fluid temperature: C/T/A grade 66 °C H grade 50 °C 3. Initial pressure drop: 0.01Mpa 4. Max permitted filter pressure drop: 0.07Mpa 5. Service life: C/T/A grade 8000Hours H grade 1000Hours 6. Connection type: taper pipe internal thread for 0.5 ~ 12 series flange for above 13 series
MF-002	2.4			
MF-004	3.8			
MF-005	5	G1" ~ 1-1/2"		
MF-007	7			
MF-010	11	G1-1/2" ~ 2"		
MF-013	14			
MF-018	18	G2" or DN50		
MF-022	22			
MF-026	26	G2" or DN80		
MF-035	35			
MF-045	45	DN80		
MF-054	54			
MF-066	66	DN100		
MF-088	88			

Model No.	Max. capacity (Nm <sup>3</sup> /min)	Refrigrant	Input power (KW)	Voltage&Frequency (V/Hz/PH)	Dimension (LxWxH mm)	Weight (KGS)	Outlet Diameter (INCH)
ADL-5/ADH-5	0.8	R134a	0.25	220/50/1	420x380x470	20	RC 1/2"
ADL-10/ADH-10	1.2		0.25		420x380x470	33	RC 3/4"
ADL-20/ADH-20	2.4		0.35		450x480x550	40	RC 3/4"
ADL-30/ADH-30	3.6		0.6		560x460x555	65	RC 1-1/4"
ADL-60/ADH-60	6.5		1.05		810x680x713	98	RC 1-1/2"
ADL-80/ADH-80	8.5	R410a	1.25	380/50/3	820x680x720	102	RC 2"
ADL-100/ADH-100	11		1.55		1000x710x800	125	RC 2"
ADL-150/ADH-150	16		2.3		1150x820x890	180	DN65
ADL-200/ADH-200	23		4.2		1330x890x890	280	DN80
ADL-300/ADH-300	33		5.2		1500x1200x1080	380	DN100
ADL-400/ADH-400	42		7.5		1800x1500x1200	560	DN100

Reference work conditions  
 Ambient temperature: 38 °C  
 Intake temperature for ADL series: 38 °C  
**Intake temperature for ADH series: 65 °C**  
 Intake pressure: 0.7Mpa  
 Pressure dew point: 2-10 °C

Max ambient temperature: 42 °C  
 Max intake temperature for ADL series: 45 °C  
**Max intake temperature for ADH series: 85 °C**  
 Max intake pressure: 1.0Mpa  
 Air dew point: -23 ~ -17 °C