OPPAIR

SCREW AIR COMPRESSOR

OPPAIR Compressor（Shanghai）Co.,Ltd
Shandong OPPAIR Machinery Manufacturing Co.,Ltd

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www.oppaircompressor.com

OPPAIR

PROFESSIONAL AIR COMPRESSOR MANUFACTURER

www.oppaircompressor.com



OPPAIR COMPRESSOR（SHANGHAI）CO.,LTD
SHANDONG OPPAIR MACHINERY MANUFACTURING CO.,LTD















COMPANY PROFILE

OPPAIR Compressor (Shanghai) Co.,Ltd., an AAA-level enterprise with high-quality service and integrity in China.

As one of the world's largest air compressor system suppliers, OPPAIR is currently developing the following products: Fixed-speed series, Permanent Magnet Variable Frequency series, Two-stage series, 4-IN-1 series (Integrated series for Laser Cutting Machine), Oil Free series, Nitrogen generator, Supercharger, Air Dryer, Adsorption Dryer, Air Tank and related accessories. OPPAIR adheres to the business philosophy of win-win cooperation and provides one-stop service for every customer!

German standard, manufactured by OPPAIR. As a leading technology company in the industry, OPPAIR has been committed to cultivating talents and pursuing quality. We have a group of out-standing talents who have a strong aerodynamic foundation and are always active in the field of mechanical applications and R&D technology. This gives OPPAIR an unparalleled advantage in technology research and development, product innovation and customization.

OPPAIR has achieved rapid development on the basis of innovaton and scientific research. We have won great attention from the industry and have obtained the national GC-evel energy eficiency certification. OPPAIR compressor are 15% higher than the air flow rate in the same industry. PV series can save up to 40% of energy.

Choose OPPAIR, your energy saving expert!

OPPAIR adheres to the attitude of win-win cooperation and welcomes customers from all over the world to discuss cooperation!

QUALIFICATION CERTIFICATE



SCREW AIR COMPRESSOR

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WWW.OPPAIRCOMPRESSOR.COM

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400v/50hz/3p	415v/50hz/3p	440v/60hz/3p
220v/50hz/1p	220v/60hz/1p	600V/60hz/3p

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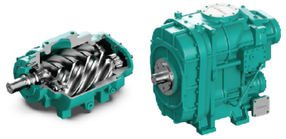
SCREW AIR COMPRESSOR

CHOOSE OPPAIR

HICH QUALITY / DURABLE / FEEL AT EASE

AIR END

1. Adopts the international top-level third-generation asymmetric wire twin-screw air end, adheres to the exquisite manufacturing process, adopts the peak high eficiency low-pressure, high-efficiency tooth shape and the axial air inlet design.
2. Optimized flow channel design, with a large rotor, low speed and high efficiency. Increased energy efficiency by 5% -15% compared to the second generation.
3. Uses Swedish SKF heavy-duty bearings, double-lip lip shaft seal, durable and reliable. The bearing design life is 80,000-100,000 hours and the air end design life is about 200,000 hours.



MOTOR

01



02

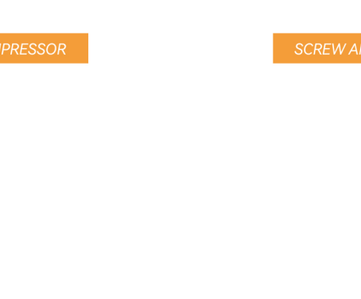


1. The motor adopts a well-known brand high-performance motor. The permanent magnet synchronous motor (PM motor) adopts high-performance permanent magnets, which do not lose magnetism under 200°, and have a service life of up to 15 years.
2. The stator coil uses the frequency converter special halo proof enameled wire, the insulation is outstanding and the service life is longer.
3. The motor has the function of temperature protection. It also has a wide range of motor speed regulation, high precision and wide range of volume regulation. The reliability is significantly improved with small size, low noise and large excess current.
4. Protection grade IP55, insulation grade F, effectively protects the motor and increases the service life of the motor, the efficiency is 5%-7% higher than similar products.

SMART CONTROLLER

1. Adopts PLC multilanguage control system, beautiful and intuitive interface, easy to operate function, operators can quickly and easily adjust the compressor.
2. 14 protection functions such as overload protection, short circuit protection, reverse protection, low temperature protection, high voltage protection, etc. to fully protect the unit.
3. The advanced microcomputer control drive system realizes intelligent control, air volume variable speed control automatic adjustment of load start and soft start. Intelligent dynamic control, dynamic display of the working status of each component of the compressor, visual pressure, temperature, current working curve, etc.
4. Large memory and equipped with printer interface: it can use computer remote monitoring or multiple linkage control between air compressors.





FAN

01



02



1. The fan uses a large fan design to effectively enhance the fan's heat dissipation effect.The motor adopts aspecial internal design to adapt to harsh working conditions.
2. The fan motor adopts special winding and high protection grade design to adapt to harsh working conditions.
3. The fan is controlled by the controller to realize the automatic start and stop function, which effectively maintains the normal working temperature of the air compressor lubricant.

INTAKE VALVE

1. Intake valve is the core component to control the air intake of the air compressor.
2. Adopting the world famous brand air intake valve, it can automatically adjust the air volume by 0-100% according to the requirement of the system air quantity. It promises small pressure loss, stable action and long life consequently reduced operating costs.



HEAT EXCHANGER



1. The heat exchanger uses high-quality raw materials and a unique internal channel design, which increases the heat exchange area and can effectively dissipate heat for the air compressor.
2. The inner wall of the heat exchanger is treated with corrosion protection to increase the service life of the heat exchanger and increase the heat transfer effect.
3. The radiator has passed the strict factory test, and the quality is reliable, which effectively prevents the high temperature of the air compressor and increases the service life of the machine.

7.5KW-250KW
SCREW AIR COMPRESSOR

STABLE,LOW NOISE,INTELLIGENT CONTROL

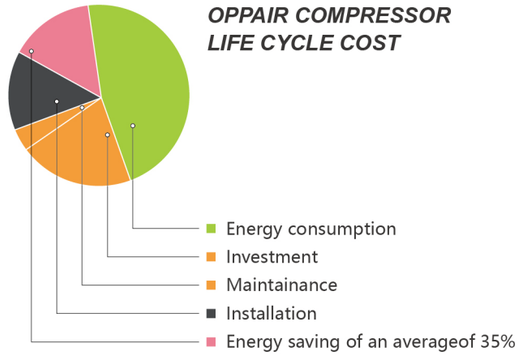


PM VSD
SCREW AIR COMPRESSOR
7.5KW-55KW

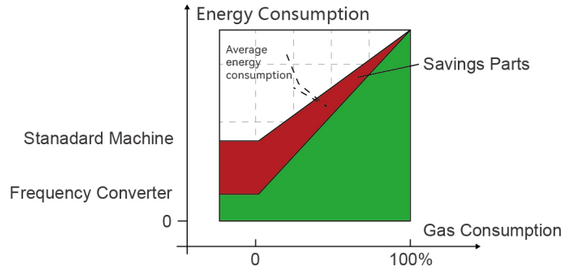
Model	OPP-10PV	OPP-15PV	OPP-20PV	OPP-30PV	OPP-40PV	OPP-50PV	OPP-60PV	OPP-75PV
Power (kw)	7.5	11	15	22	30	37	45	55
Horsepower(hp)	10	15	20	30	40	50	60	75
Air displacement / Working pressure (m3/min. / bar)	1.2 / 7	1.6 / 7	2.5 / 7	3.8 / 7	5.3 / 7	6.8 / 7	7.4 / 7	10.0 / 7
	1.1 / 8	1.5 / 8	2.3 / 8	3.6 / 8	5.0 / 8	6.2 / 8	7.0 / 8	9.2 / 8
	0.9 / 10	1.3 / 10	2.1 / 10	3.2 / 10	4.5 / 10	5.6 / 10	6.2 / 10	8.5 / 10
	0.8 / 12	1.1 / 12	1.9 / 12	2.7 / 12	4.0 / 12	5.0 / 12	5.6 / 12	7.6 / 12
Air out let diameter	DN15	DN20	DN20	DN25	DN40	DN40	DN40	DN50
Lubricating oil volume (L)	6	10	10	15	22	22	22	40
Noise level dB(A)	60±2	62±2	62±2	64±2	66±2	66±2	66±2	68±2
Driven method	Direct driven							
Type	PM VSD							
Start method	Variable frequency start							
Length (mm)	930	1080	1080	1300	1390	1390	1500	1600
Width (mm)	620	700	700	850	950	950	950	1170
Height (mm)	820	1060	1060	1150	1250	1250	1250	1520
Weight (kg)	185	245	245	425	460	460	550	1005

PM VSD FEATURES

OPPAIR COMPRESSOR LIFE CYCLE COST



ENERGY CONSUMPTION CURVE OF FREQUENCY CONVERSION COMPOSSOR



As the main model of OPPAIR, the Permanent Magnet Variable Frequency Air Compressol(PM VSD/VFD Type) has outstanding advantages:

· Deep energy saving can reach 30%
· Intelligent control system
· The latest generation of high-efficiency permanent magnet motors
· The latest generation of ultra-stable inverter
· Soft start,small start impact
· Low noise

PM VSD
SCREW AIR COMPRESSOR
75KW-250KW

Model	OPP-100PV	OPP-125PV	OPP-150PV	OPP-175PV	OPP-220PV	OPP-275PV	OPP-350PV
Power (kw)	75	90	110	132	160	185	250
Horsepower(hp)	100	125	150	175	220	275	350
Air displacement / Working pressure (m3/min. / bar)	13.4 / 7	16.2 / 7	21.0 / 7	24.5 / 7	30.25 / 7	33.15 / 7	45.5 / 7
	12.6 / 8	15.0 / 8	19.8 / 8	23.2 / 8	30.15 / 8	32.15 / 8	43 / 8
	11.2 / 10	13.8 / 10	17.4 / 10	20.5 / 10	26.9 / 10	30.1 / 10	38.9 / 10
	10.0 / 12	12.3 / 12	14.8 / 12	17.4 / 12	23 / 12	24.32 / 12	36 / 12
Air out let diameter	DN50	DN50	DN65	DN65	DN75	DN75	DN100
Lubricating oil volume (L)	40	60	70	70	90	110	130
Noise level dB(A)	68±2	70±2	70±2	70±2	75±2	85±2	85±2
Driven method	Direct driven						
Type	PM VSD						
Start method	Variable frequency start						
Length (mm)	1720	2480	2480	2480	2600	2600	3350
Width (mm)	1220	1460	1460	1460	1550	1550	1970
Height (mm)	1600	1850	1850	1850	1850	1850	2440
Weight (kg)	1250	1700	1900	1950	2100	2800	4500

FIXED SPEED

SCREW AIR COMPRESSOR

7.5KW-55KW

Model	OPP-10F	OPP-15F	OPP-20F	OPP-30F	OPP-40F	OPP-50F	OPP-60F	OPP-75F
Power(kw)	7.5	11	15	22	30	37	45	55
Horsepower (hp)	10	15	20	30	40	50	60	75
Air displacement/ Working pressure (m^3/min./ bar)	1.2/7	1.6/7	2.5/7	3.8/7	5.3/7	6.8/7	7.4/7	10.0/7
	1.1/8	1.5 /8	2.3/8	3.6/8	5.0/8	6.2/8	7.0/8	9.2/8
	0.9/10	1.3/10	2.1/10	3.2/10	4.5/10	5.6/10	6.2/10	8.5/10
	0.8/12	1.1/12	1.9/12	2.7/12	4.0/12	5.0/12	5.6/12	7.6/12
Air outlet diameter	DN20	DN25	DN25	DN25	DN40	DN40	DN40	DN40
Lubricating oil volume (L)	6	10	10	15	22	22	22	40
Noise level dB(A)	60±2	62±2	62±2	64±2	66±2	66±2	66±2	68±2
Driven method	Direct driven							
Type	Fixed Speed							
Start method	Y-△							
Length (mm)	930	1080	1080	1300	1500	1500	1500	1600
Width (mm)	620	700	700	850	950	950	950	1170
Height (mm)	820	1060	1060	1150	1250	1250	1250	1520
Weight (kg)	185	245	245	425	550	550	550	1005

FIXED SPEED

SCREW AIR COMPRESSOR

75KW-250KW

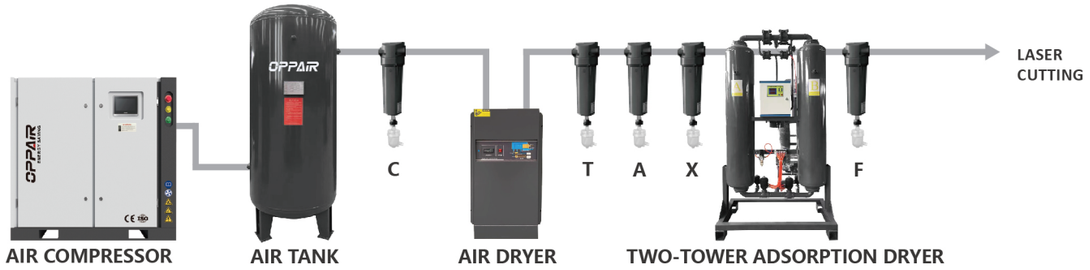
Model	OPP-100F	OPP-125F	OPP-150F	OPP-175F	OPP-220F	OPP-275F	OPP-350F
Power(kw)	75	90	110	132	160	200	250
Horsepower (hp)	100	125	150	175	220	275	350
Air displacement/ Working pressure (m^3/min./ bar)	13.4/7	16.2/7	21.0/7	24.5/7	32.4/7	38.2/7	45.5/7
	12.6/8	15.0/8	19.8/8	23.2/8	30.2/8	36.9/8	43/8
	11.2/10	13.8/10	17.4/10	20.5/10	26.9/10	33/10	38.9/10
	10.0/12	12.3/12	14.8/12	17.4/12	23/12	28.5/12	36/12
Air outlet diameter	DN50	DN50	DN65	DN65	DN75	DN75	DN100
Lubricating oil volume (L)	40	60	70	70	90	110	130
Noise level dB(A)	68±2	70±2	70±2	70±2	75±2	85±2	85±2
Driven method	Direct driven						
Type	Fixed Speed						
Start method	Y-△						
Length (mm)	1720	2480	2480	2480	2600	2600	3350
Width (mm)	1220	1460	1460	1460	1550	1550	1970
Height (mm)	1600	1850	1850	1850	1850	1850	2440
Weight (kg)	1250	1700	1900	1950	2100	2800	4500

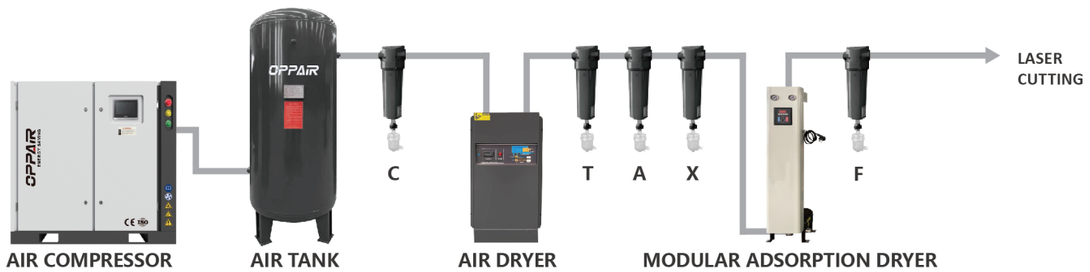
FOCUS ON ENERGY-SAVING

• AIR COMPRESSOR CONNECTION SCHEME









1. Air compressor + Air tank

2. Air compressor + Air tank +QPS precision filter + Air dryer

3. Air compressor + Air tank +CTAXF precision filter + Air dryer + Two-tower adsorption dryer

4. Air compressor + Air tank +CTAXF precision filter + Air dryer + Modular adsorption dryer

4-IN-1 INTEGRATED SCREW AIR COMPRESSOR

7-20BAR

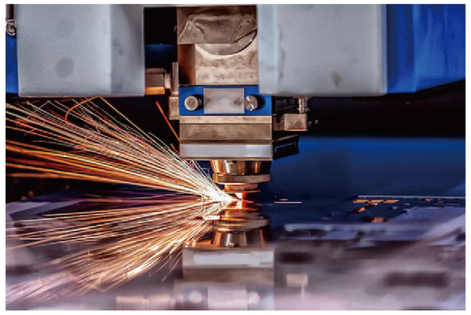


7-12BAR

Model	OPA-10F	OPA-15F	OPA-20F	OPA-30F	OPA-10PV	OPA-15PV	OPA-20PV	OPA-30PV
Power(kw)	7.5	11	15	22	7.5	11	15	22
Horsepower (hp)	10	15	20	30	10	15	20	30
Air displacement/ Working pressure (m³/min./ bar)	1.2/7	1.6/7	2.5/7	3.8/7	1.2/7	1.6/7	2.5/7	3.8/7
	1.1/8	1.5/8	2.3/8	3.6/8	1.1/8	1.5/8	2.3/8	3.6/8
	0.9/10	1.3/10	2.1/10	3.2/10	0.9/10	1.3/10	2.1/10	3.2/10
	0.8/12	1.1/12	1.9/12	2.7/12	0.8/12	1.1/12	1.9/12	2.7/12
Air Tank (L)	380	500	500	500	380	500	500	500
Type	Fixed Speed				PM VSD			
Air outlet diameter	DN20	DN20	DN20	DN20	DN20	DN20	DN20	DN20
Lubricating oil volume(L)	5	10	10	16	5	10	10	16
Noise level dB(A)	60±2	62±2	62±2	68±2	60±2	62±2	62±2	68±2
Driven method	Direct driven							
Start method	Y-△				Variable frequency start			
Length (mm)	1520	1820	1820	2080	1520	1820	1820	2080
Width (mm)	640	700	700	850	640	700	700	850
Height (mm)	1490	1740	1740	1840	1490	1740	1740	1840
Weight (kg)	380	480	500	600	380	480	500	600

COMPRESSOR FEATURES

- IE3/IE4 permanent magnet motor
- Constant voltage/mute
- Automotive grade design
- Small footprint
- Light in weight
- Easy to install and easy to maintain
- Five-stage filtration, the maximum protection of your laser cutting machine



16BAR

FOR LASER CUTTING

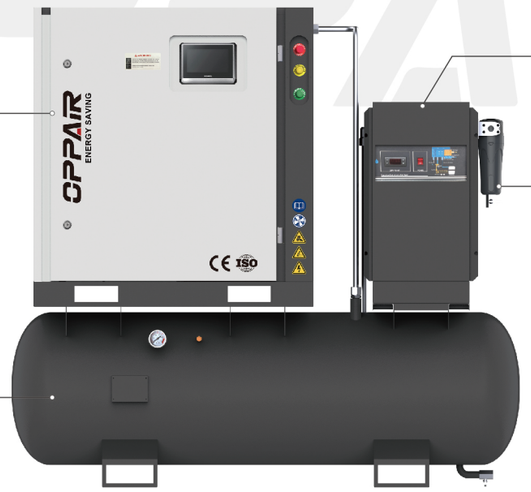
Model	OPA-15F/16	OPA-20F/16	OPA-30F/16	OPA-15PV/16	OPA-20PV/16	OPA-30PV/16
Power(kw)	11	15	22	11	15	22
Horsepower (hp)	15	20	30	15	20	30
Air displacement/ Working pressure (m³/min./ bar)	1.0/16	1.2/16	2.0/16	1.0/16	1.2/16	2.0/16
Air Tank (L)	500	500	500	500	500	500
Air outlet diameter	DN20					
Type	Fixed Speed			PM VSD		
Driven method	Direct driven					
Start method	Y-△			Variable frequency start		
Length (mm)	1830	1830	2080	1830	1830	2080
Width (mm)	720	720	850	720	720	850
Height (mm)	1750	1750	1840	1750	1750	1840
Weight (kg)	480	500	600	480	500	600

PRO SERIES

Model	OPA-20F/16 Pro	OPA-30F/16 Pro	OPA-20PV/16 Pro	OPA-30PV/16 Pro
Power(kw)	15	22	15	22
Horsepower(hp)	20	30	20	30
Air displacement/ Working pressure (m³/min. / bar)	1.47 / 16	2.16 / 16	1.47 / 16	2.16 / 16
Air Tank（L）	500	500	500	500
Air outlet diameter	DN20			
Type	Fixed Speed		PM VSD	
Driven method	Direct driven			
Start method	Y-Δ		Variable frequency start	
Length (mm)	1830	2080	1830	2080
Width (mm)	720	850	720	850
Height (mm)	1750	1840	1750	1840
Weight (kg)	500	600	500	600

4-IN-1 INTEGRATED SCREW AIR COMPRESSOR

20BAR



SCREW AIR COMPRESSOR

Energy-saving and efficient, not prone to high temperature.

AIR DRYER

Plate exchange high efficiency air dryer, long life, deep water removal.

PRECISION LINE FILTER

High-precision line filter, dust removal, water removal, oil removal can reach 0.001um

AIR TANK

Extra large air tank to ensure stable air supply and remove water.

NOTE:

· If there are other air equipment in the workshop, air compressor needs to choose bigger one.

· The above is only a reference matching scheme.According to different brands of laser cuting machines and air compressors, there may be differences in the specific power selection.

· Multiple laser cutting machines can use the same air compressor to supply air, but the air supply volume must be calculated.

4-IN-1 INTEGRATED 20BAR

Model	OPA-20PV/20	OPA-30PV/20
Power(kw)	15	22
Horsepower(hp)	20	30
Air displacement/ Working pressure (m³/min. / bar)	1.01 / 20	1.92 / 20
Air Tank（L）	500	500
Air outlet diameter	DN20	DN20
Type	PM VSD	
Driven method	Direct driven	
Start method	Variable frequency start	
Length (mm)	2080	2080
Width (mm)	850	850
Height (mm)	1840	1840
Weight (kg)	600	650

5-IN-1 INTEGRATED SCREW AIR COMPRESSOR

16BAR



WHAT IS 5-IN-1?

Screw air compressor

Air Dryer

Air tank

5-clase Precision filter

Modular adsorption dryer.

OPTIONAL PRESSURE:

8/10/12/16bar

CUSTOMIZED VOLTAGE:

380V/400V/415V 50HZ 3P, 220V/440V 60HZ 3P

LANGUAGE SUPPORT:

Chinese, English, Spanish, Russian, French, Portuguese

				
Class C	**Class T**	**Class A**	**Class X**	**Class F**
Polymer filter, filtration accuracy 3μm, oil content 3 ppm.	Coalescing filter, filtration accuracy 1 μm, oil content 0.1 ppm.	Coalescing filter, filtration accuracy 0.01μm, oil content 0.01ppm.	Efficient oil removal, filtration accuracy 0.01μm, oil content 0.001ppm.	Dust removal filter, filtration accuracy 0.01μm.

Model	Power (kw)	Horsepower (hp)	Air displacement Working pressure (m/min./ bar)	Air Tank (L)	Air outlet diameter	Type	Driven method	Start method	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
Super-20F/16	15	20	1.2/16	500	DN20	Fixed Speed	Direct driven	Y-△	2000	700	1750	500
Super-30F/16	22	30	2.0/16	550	DN20	Fixed Speed	Direct driven	Y-△	2200	870	1830	650
Super-20PV/16	15	20	1.2/16	500	DN20	PM VSD	Direct driven	PM VSD	2000	700	1750	500
Super-30PV/16	22	30	2.0/16	550	DN20	PM VSD	Direct driven	PM VSD	2200	870	1830	650

SKID MOUNTED LASER SCREW AIR COMPRESSOR

16BAR

COMPOSITION

PM VSD Inverter Compressor
Efficient air dryer
2*600L tank
Modular adsorption dryer
CTAXF 5-clase precision filter



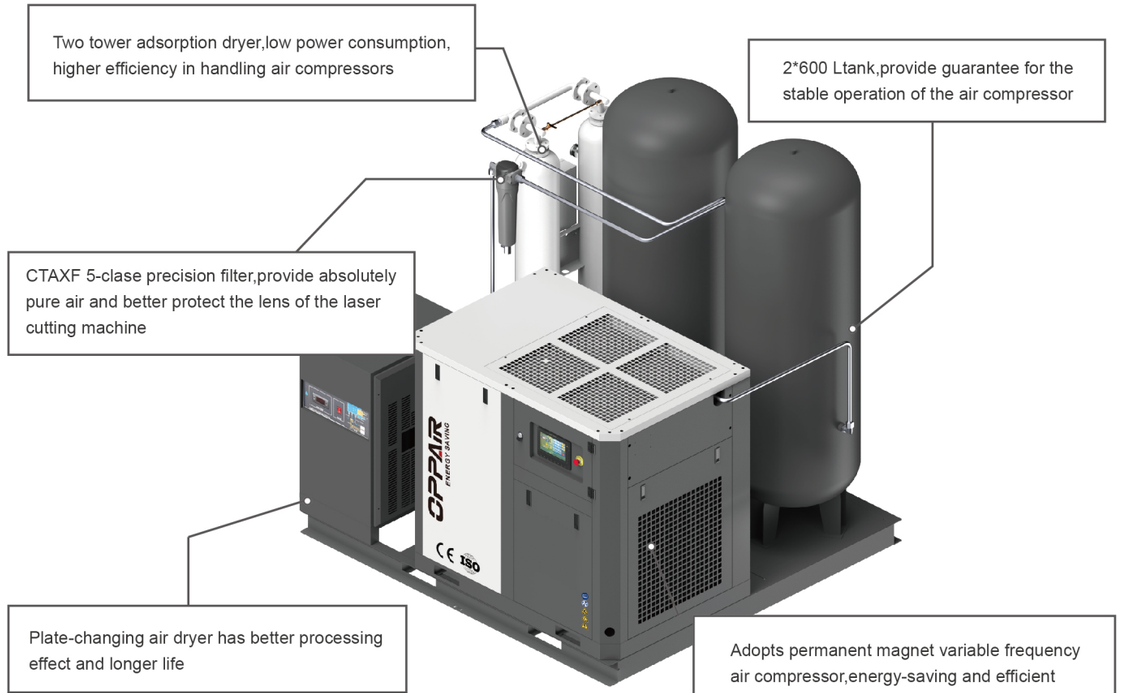
ADVANTAGE

- Using permanent magnet variable frequency(PM VSD) screw air compressor, saving energy by 30%
- The modular adsorption dryer is used, which saves space, saves energy, has low power consumption, good pressure dew point stability, and higher efficiency in handling air compressors.
- Adopt five-stage high-precision filter, dust removal, water removal, oil removal effect can reach: 0.001um
- It adopts a large-capacity air storage tank, 600Lx2, with a total capacity of 1200L, which provides guarantee for the stable operation of the air compressor.
- Air dryer + modular adsorption dryer + five-stage filter to provide absolutely pure air and better protect the lens of the laser cutting machine
- Large air supply capacity, capable of supplying air to multiple laser cutting machines at the same time

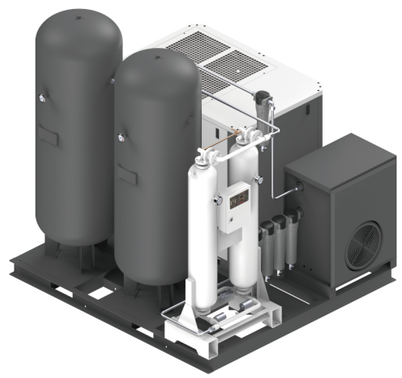
Model	Power	Pressure	Air Supply	Type	Size	Outlet size	Filter level	Filtration accuracy
Laser-30PV/16	22KW 30HP	16bar	2.0m3/min = 70cfm	PM VSD	1950*1780*2190mm	G 1" =DN25	CTAXF 5-clase	Oil removal water removal dust removal filtration accuracy: 0.001um
Laser-40PV/16	30KW 40HP	16bar	3.4m3/min = 119cfm		2130*1880*2190mm	G 1" =DN25	CTAXF 5-clase	
Laser-50PV/16	37KW 50HP	16bar	4.5m3/min = 157.5cfm		2130*1880*2190mm	G 1" =DN25	CTAXF 5-clase	

SKID MOUNTED LASER SCREW AIR COMPRESSOR

20BAR



Suitable for 30KW-60KW laser cutting machine



Model	Power	Pressure	Air Supply	Type	Size	Weight	Filter level	Filtration accuracy
Laser-40PV/20	30KW 40HP	20bar	2.36m3/min 82.6cfm	PM VSD	2200*2020*2190mm	G 1" =DN25	CTAXF 5-clase	Oil removal water removal dust removal filtration accuracy: 0.001um
Laser-50PV/20	37KW 50HP	20bar	3.3m3/min 115.5cfm		2200*2020*2190mm	G 1" =DN25	CTAXF 5-clase	

2-IN-1
SCREW AIR COMPRESSOR
WITH TANK





FEATURES

· Equipped with wheels, easy to move.
· Ultra-quiet wheels, silent.
· Permanent magnet frequency conversion series, energy saving 30%.
· Support single-phase and three-phase power.

Model	OPN-5PV	OPN-7PV	OPN-10PV	OPN-10F
Power(kw)	4	5.5	7.5	7.5
Housepower(hp)	5	7.5	10	10
Air displacement/working pressure(m3/min/bar)	0.67/7	0.98/7	1.2/7	1.2/7
	0.63/8	0.95/8	1.1/8	1.1/8
	0.59/10	0.7/10	0.9/10	0.9/10
	0.52/12	0.6/12	0.8/12	0.8/12
Air Tank (L)	220			
Voltage	Single-Phase/3-Phase			3-Phase
Type	PM VSD			Fixed speed
Air outlet diameter	DN20*2	DN20*2	DN20*2	DN20*2
Lubricating oil volume(L)	4-5	4-5	4-5	4-5
Noise level dB(A)	56±2	60±2	60±2	60±2
Driven mothod	Direct driven			
Smart method	Variable frequency start			Y-△
Length(mm)	1220	1220	1220	1220
Width(mm)	650	650	650	650
Height(mm) with wheels	1260	1260	1260	1260
Height(mm) without wheels	1150	1150	1150	1150
Weight(kg)	190	200	230	230

3-IN-1
SCREW AIR COMPRESSOR
WITH TANK AND DRYER





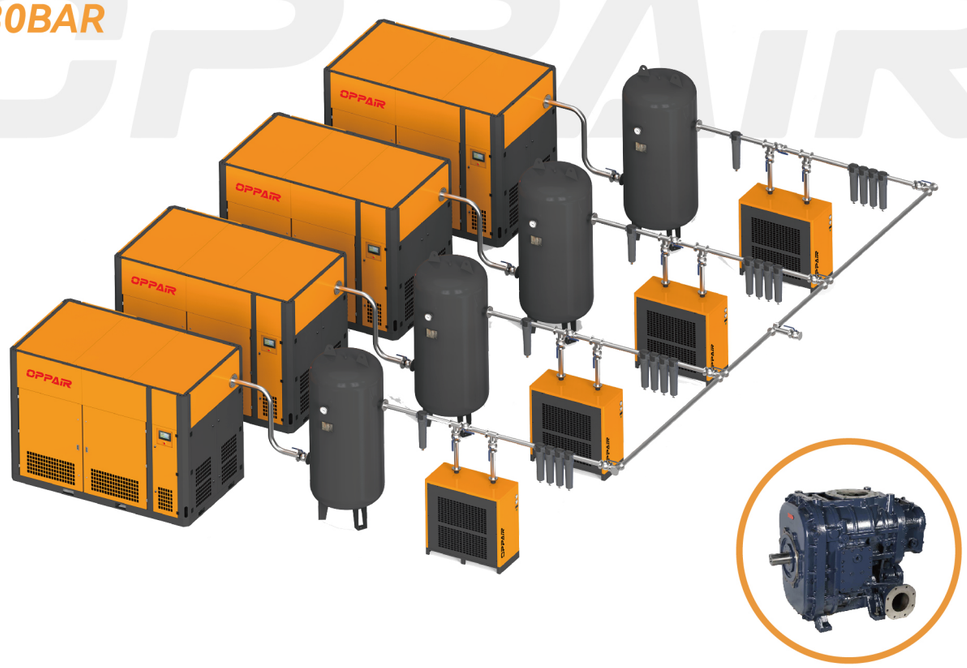
FEATURES

· Small size,easy to move, specially designed for auto repair,suitable for all kinds of machines with small air consumption.
· Equipped with ultra-quiet wheels with brakes, no sound when moving.
· Optional three-phase/single-phase electricity.

Model	OPR-5PV	OPR-7PV	OPR-10PV	OPR-10F
Power(kw)	4	5.5	7.5	7.5
Horsepower(hp)	5	7.5	10	10
Air displacement/Working pressure (m³/min. / Bar)	0.67/7	0.98/7	1.2/7	1.2/7
	0.63/8	0.95/8	1.1/8	1.1/8
	0.59/10	0.7/10	0.9/10	0.9/10
	0.52/12	0.6/12	0.8/12	0.8/12
Air Tank (L)	270			
Type	PM VSD			Fixed speed
Voltage	Single-Phase/3-Phase			3-Phase
Air outlet diameter	DN15 *1	DN15 *1	DN15 *1	DN15 *1
Noise level dB(A)	55±2	60±2	60±2	60±2
Driven method	Direct driven			
Start method	Variable frequency start			Y-△
Length (mm)	1400	1400	1400	1400
Width (mm)	650	650	650	650
Height(mm) with wheels	1340	1340	1340	1340
Height(mm) without wheels	1200	1200	1200	1200
Weight (kg)	250	260	280	280

TWO STAGE SCREW AIR COMPRESSOR

8-30BAR



Series diagram : Screw air compressor + Air tank + Air dryer + Precision filter

8-13BAR

Model	OPT-50PV	OPT-60PV	OPT-75PV	OPT-100PV	OPT-125PV	OPT-150PV	OPT-175PV	OPT-220PV	OPT-250PV	OPT-275PV	OPT-300PV
Power(kw)	37	45	55	75	90	110	132	160	185	200	220
Horsepower(hp)	50	60	75	100	125	150	175	220	250	275	300
Air displacement/ Working pressure (m^3/min. / bar)	6.82/8	9.06/8	11.3/8	15.15/8	18.9/8	22.27/8	24.98/8	31.08/8	38.54/8	41.0/8	43.75/8
	5.74/10	/	9.02/10	12.41/10	15.16/10	18.8/10	22.15/10	26.25/10	30.93/10	/	38.35/10
	/	5.55/13	6.84/13	10.85/13	11.93/13	15.08/13	18.78/13	23.56/13	26.11/13	/	30.7/13
	3.69/15	/	5.25/15	8.4/15	11.06/15	12.51/15	18.5/15	/	23.31/15	/	/
Air outlet diameter	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN80	DN80	DN100	DN100
Noise level dB(A)	68±3	70±3	73±3	76±3	76±3	76±3	76±3	76±3	80±3	80±3	80±3
Type	PM VSD										
Driven method	Direct driven										
Start method	Variable frequency start										
Length (mm)	1600	1600	1920	1920	2600	2600	2600	3000	3000	3200	3600
Width (mm)	1050	1050	1270	1270	1600	1600	1600	1750	1750	2000	2200
Height (mm)	1260	1260	1600	1600	1900	1900	1900	2000	2000	2200	2500
Weight (kg)	600	680	1400	1450	1500	1600	1800	2700	3000	3800	4800

More Energy-Saving

Direct gear drive allows air end to operate at the optimal energy-saving speed. Variable frequency soft start reduces startup energy consumption, resulting in a 40% energy saving for two-stage PM VSD air compressor.

More Stable

No mechanical transmission failures. The motor and male rotor utilize an integrated shaft structure, eliminating the need for couplings and gears, and the potential for coupling and gear failure.

More Efficient

The PM VSD motor eliminates transmission efficiency losses. The integrated structure reduces coupling and gear losses. Compared to traditional single-stage compressors, the displacement is increased by 15% at the same power.





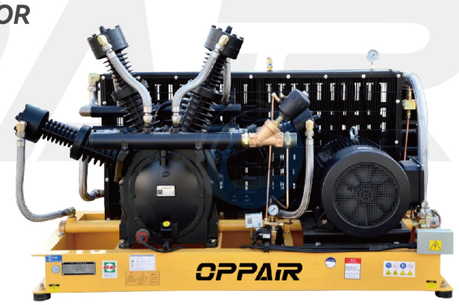
20-30BAR

Model	OPT-100PV	OPT-125PV	OPT-150PV	OPT-175PV	OPT-220PV	OPT-250PV	OPT-275PV	OPT-300PV
Power(kw)	75	90	110	132	160	185	200	220
Horsepower(hp)	100	125	150	175	220	250	275	300
Air displacement/ Working pressure (m^3/min. / bar)	8.41/20	9.46/20	11.56/20	14.57/20	16.33/20	21.3/20	22.66/20	23.27/20
	7.18/25	8.19/25	10.24/25	12.22/25	14.18/25	18.10/25	19.55/25	21.0/25
	/	6.95/30	8.91/30	10.89/30	12.78/30	16.34/30	17.76/30	19.18/30
Air outlet diameter	DN50	DN50	DN65	DN65	DN80	DN80	DN100	DN100
Noise level dB(A)	76±3	76±3	76±3	76±3	76±3	80±3	80±3	80±3
Type	PM VSD							
Driven method	Direct driven							
Start method	Variable frequency start							
Length (mm)	1920	2600	2600	2600	3000	3000	3200	3600
Width (mm)	1270	1600	1600	1600	1750	1750	2000	2200
Height (mm)	1600	1900	1900	1900	2000	2000	2200	2500
Weight (kg)	1450	1500	1600	1800	2700	3000	3800	4800

BOOSTER AIR COMPRESSOR

FOR BOTTLE BLOWING
NEED TO MATCH 8/10BAR SCREW AIR COMPRESSOR

The pressurized air compressor can pressurize the low-pressure air source to the high-pressure air source suitable for the blow molding machine. Compared with the traditional piston air compressor, it has the characteristics of low noise and high efficiency, and is especially suitable for large-flow application's gas requirements.



Model	SCH-1.5/30	SCH-2.4/30	SCH-3.2/30	SCH-5.0/30	SCH-6.0/30
Displacement (m^3/min)	1.5	2.4	3.2	5.0	6.0
Exhaust pressure (bar)	30	30	30	30	30
Input pressure (bar)	8	8	8	8	8
Power (kw)	7.5	11	15	18.5	22
Overall dimensions L×W×H (mm)	1000×550×950	1350×800×1100	1350×800×1100	1350×800×1100	1450×950×1250
Weight (kg)	230	380	400	480	520

SCH-8.0/30	SCH-10.0/30	SCH-2.4/40	SCH-4/40	SCH-5/40	SCH-6/40	SCH-8/40	SCH-10/40
8.0	10.0	2.4	4.0	5.0	6.0	8.0	10.0
30	30	40	40	40	40	40	40
8	8	10	10	10	10	10	10
30	37	15	18.5	22	30	37	45
1500×950×1300	1600×1000×1400	1500×950×1300	1600×1000×1300	1600×1000×1300	1650×1000×1400	1800×1200×1500	1800×1200×1500
600	850	600	750	750	800	850	850

MEDIUM PRESSURE PISTON AIR COMPRESSOR
CAN REACH 30/40/60BAR DIRECTLY FROM 0BAR

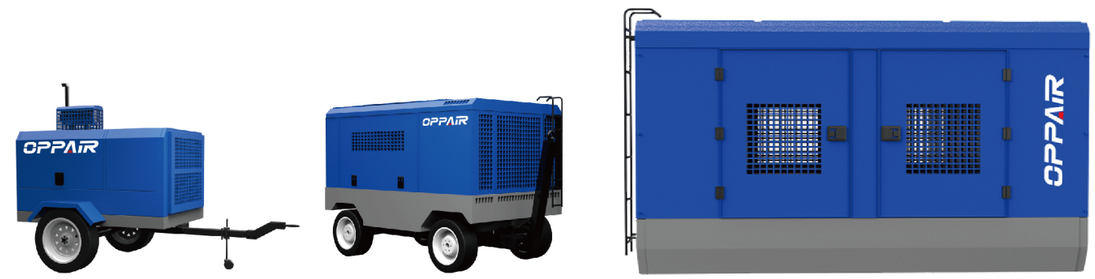
Model	SCW-0.6/30(2)	SCW-1.0/30(2)	SCW-1.2/30(2)	SCW-1.6/30(3)	SCW-2.0/30(2)	2-SCW-2.4/30(2)
Displacement (m^3/min)	0.6	1.0	1.2	1.6	2.0	2.4
Exhaust pressure (bar)	30	30	30	30	30	30
Compressed stage	Two-stage compression			Three-stage compression	Two-stage compression	
Cooling way	Air cooled			Air cooled	Air cooled	
Power	7.5	11	15	18.5	22	2*15
Speed (rmp)	780	750	780	800	800	780
Overall dimensions L×W×H (mm)	1100*530*1020	1150*800*1000	1200*850*1150	1350*850*1040	1500*1300*1000	1800*1100*1200
Weight (kg)	290	440	480	500	800	850

SCW-0.8/40(3)	SCW-1.0/40(3)	SCW-1.2/40(3)	SCW-1.6/40(3)	SCW-2.0/40(3)	SCW-0.6/60(3)	SCW-1.0/60(3)	SCW-1.6/60(3)
0.8	1.0	1.2	1.6	2.0	0.6	1.0	1.6
40	40	40	40	40	60	60	60
Three-stage compression							
Air cooled							
11	15	18.5	22	30	11	18.5	22
780	750	780	780	800	720	750	820
1150*800*1100	1200*750*1113	1400*1000*1100	1350*900*1040	1800*1300*1200	1200*850*1150	1400*1000*1100	1800*1300*1200
450	440	520	550	850	480	520	850

FOCUS ON ENERGY-SAVING

DIESEL MOBILE AIR COMPRESSOR

150-1400CFM, 8-30BAR



· High reliability: fewer parts, no wearing parts longer life, the interval between overhauls can reach 40,000 to 80,000 hours.

· Convenient operation and maintenance: high degree of automation, unattended operationcan be realized.

· Strong adaptability: the volume flow is almost not affected by the exhaust pressure, maintain high efficiency in a wide range of speed.

Model		OPM-37-8	OPM-53-8	OPM-53-10	OPM-55-8	OPM-55-10
Model style		Two/No wheel	Two/No wheel		Two/No wheel	
Screw air compressor	Compression level	Single stage	Single stage		Single stage	
	Exhaust pressure	8bar (116psi)	8bar (116psi)	10bar (145psi)	8bar (116psi)	10bar (145psi)
	Volumetric flow	4.5m3/min (157cfm)	6m3/min (210cfm)	5m3/min (175cfm)	6m3/min (210cfm)	5m3/min (175cfm)
	Max towing speed (km/h)	20	20		20	
	Air supply valve size / quantity	G1"*2	G1" *2		G1" *2	
	Max recommended working altitude	2000	2000		2000	
Diesel engines	Rated power (kw)/speed (r/min).	37/1600	55/2000		55/2000	
	Brand name	XICHAI	XICHAI		XICHAI	
	Number of cylinders	4	4		4	
	Air inlet method	Inhale naturally	Turbocharging & inter-air cooling		Turbocharging & inter-air cooling	
	Displacement (L)	2.54	2.54		2.54	
	Engine lubricating oil quantity(L)	18	36		36	
	Fuel tank capacity (L)	80	100		100	
	Number of batteries	1	2		2	
Machine parameters	Length (mm)	2300	2300		2300	
	Width (mm)	1600	1400		1400	
	Height (mm)	1600	2000		2000	
	Weight (kg)	950	1100		1100	
	Noise level (sound level) db	75 ± 3	80 ± 3		80 ± 3	
	Exhaust emission standards	China Ⅱ	China Ⅱ		China Ⅲ	



Model		OPM-93-8	OPM-93-10	OPM-93-12	OPM-97-8	OPM-97-10
Model style		Two/No wheel			Two/No wheel	
Screw air compressor	Compression level	Single stage			Single stage	
	Exhaust pressure	8bar (116psi)	10bar (145psi)	12bar (174psi)	8bar (116psi)	10bar (145psi)
	Volumetric flow	9.5m3/min (333cfm)	8.5m3/min (297cfm)	8m3/min (280cfm)	10m3/min (350cfm)	9m3/min (315cfm)
	Max towing speed (km/h)	20			20	
	Air supply valve size / quantity	G1" *2			G1" *2	
	Max recommended working altitude	2000			2000	
Diesel engines	Rated power (kw)/speed (r/min).	93/2200			97/2000	
	Brand name	CUMMINS			CUMMINS	
	Number of cylinders	4			4	
	Air inlet method	Turbocharging & inter-air cooling			Turbocharging & inter-air cooling	
	Displacement (L)	3.9			3.9	
	Engine lubricating oil quantity(L)	36			36	
	Fuel tank capacity (L)	200			200	
	Number of batteries	2			2	
Machine parameters	Length (mm)	2450			2450	
	Width (mm)	1900			1900	
	Height (mm)	2000			2000	
	Weight (kg)	1900			1900	
	Noise level (sound level) db	82 ± 3			82 ± 3	
	Exhaust emission standards	China Ⅱ			China Ⅲ	

Model		OPM-110-8	OPM-110-10	OPM-132-8	OPM-132-12	OPM-132-15
Model style		No /Four wheel		No /Four wheel		
Screw air compressor	Compression level	Single stage		Single stage		
	Exhaust pressure	8bar (116psi)	10bar (145psi)	8bar (116psi)	12bar (174psi)	15bar (218psi)
	Volumetric flow	13m3/min (455cfm)	12m3/min (420cfm)	18m3/min (630cfm)	16m3/min (560cfm)	15m3/min (525cfm)
	Max towing speed (km/h)	20		20		
	Air supply valve size / quantity	G1" *2		G1" *2		
	Max recommended working altitude	2000		2000		
Diesel engines	Rated power (kw)/speed (r/min).	110/2300		132/2300		
	Brand name	CUMMINS / YUCHAI		CUMMINS		
	Number of cylinders	4		4		
	Air inlet method	Turbocharging & inter-air cooling		Turbocharging & inter-air cooling		
	Displacement (L)	5.9		6.7		
	Engine lubricating oil quantity(L)	45		45		
	Fuel tank capacity (L)	250		250		
	Number of batteries	2		2		
Machine parameters	Length (mm)	3000		3200		
	Width (mm)	2100		2100		
	Height (mm)	2100		2200		
	Weight (kg)	2100		2400		
	Noise level (sound level) db	84 ± 3		84 ± 3		
	Exhaust emission standards	China Ⅱ		China Ⅱ		

Model		OPM-140-8	OPM-140-12	OPM-140-15	OPM-153-8/10	OPM-153-15	OPM-153-15
Model style		No /Four wheel			No /Four wheel		
Screw air compressor	Compression level	Single stage			Two-stage		Single stage
	Exhaust pressure	8bar (116psi)	12bar (174psi)	15bar (218psi)	8/10bar (116/145psi)	15bar (218psi)	15bar (218psi)
	Volumetric flow	18m3/min (630cfm)	17m3/min (595cfm)	16m3/min (560cfm)	23m3/min (770cfm)	21m3/min (700cfm)	17m3/min (630cfm)
	Max towing speed (km/h)	20			20		
	Air supply valve size / quantity	G1 1/2" *1 G1" *1			G1 1/2" *1 G1" *1		
	Max recommended working altitude	2000			2000		
Diesel engines	Rated power (kw)/speed (r/min).	140/2200			153/2300		
	Brand name	YUCHAI			CUMMINS		
	Number of cylinders	4			4		
	Air inlet method	Turbocharging & inter-air cooling			Turbocharging & inter-air cooling		
	Displacement (L)	4.5			6.7		
	Engine lubricating oil quantity(L)	45			45		
	Fuel tank capacity (L)	250			250		
	Number of batteries	2			2		
Machine parameters	Length (mm)	3200			3200		
	Width (mm)	2100			2100		
	Height (mm)	2200			2200		
	Weight (kg)	2400			2400		
	Noise level (sound level) db	84 ± 3			84 ± 3		
	Exhaust emission standards	China Ⅲ			China Ⅱ		

Model		OPM-140-8	OPM-140-12	OPM-140-15	OPM-153-8/10	OPM-153-15	OPM-153-15
Model style		No /Four wheel			No /Four wheel		
Screw air compressor	Compression level	Single stage			Two-stage		Single stage
	Exhaust pressure	8bar (116psi)	12bar (174psi)	15bar (218psi)	8/10bar (116/145psi)	15bar (218psi)	15bar (218psi)
	Volumetric flow	18m3/min (630cfm)	17m3/min (595cfm)	16m3/min (560cfm)	23m3/min (770cfm)	21m3/min (700cfm)	17m3/min (630cfm)
	Max towing speed (km/h)	20			20		
	Air supply valve size / quantity	G1 1/2" *1 G1" *1			G1 1/2" *1 G1" *1		
	Max recommended working altitude	2000			2000		
Diesel engines	Rated power (kw)/speed (r/min).	140/2200			153/2300		
	Brand name	YUCHAI			CUMMINS		
	Number of cylinders	4			4		
	Air inlet method	Turbocharging & inter-air cooling			Turbocharging & inter-air cooling		
	Displacement (L)	4.5			6.7		
	Engine lubricating oil quantity(L)	45			45		
	Fuel tank capacity (L)	250			250		
	Number of batteries	1			2		
Machine parameters	Length (mm)	3200			3200		
	Width (mm)	2100			2100		
	Height (mm)	2200			2200		
	Weight (kg)	2400			2400		
	Noise level (sound level) db	84 ± 3			84 ± 3		
	Exhaust emission standards	China III			China II		

Model		OPM-228-15	OPM-228-20	OPM-264-23	OPM-264-25	OPM-294-23	OPM-294-25
Model style		No /Four wheel					
Screw air compressor	Compression level	Two-stage		Two-stage		Two-stage	
	Exhaust pressure	15bar (218psi)	20bar (290psi)	23bar (334psi)	25bar (363psi)	23bar (334psi)	25bar (363psi)
	Volumetric flow	26m3/min (910cfm)	22m3/min (770cfm)	28m3/min (1015cfm)	27m3/min (980cfm)	30m3/min (1015cfm)	29m3/min (980cfm)
	Max towing speed (km/h)	20		20		20	
	Air supply valve size / quantity	G2" *1 G1" *1		G2" *1 G1" *1		G2" *1 G1" *1	
	Max recommended working altitude	2000		2000		2000	
Diesel engines	Rated power (kw)/speed (r/min).	228/2200		264/2000		294/2000	
	Brand name	YUCHAI		CUMMINS		CUMMINS	
	Number of cylinders	6		6		6	
	Air inlet method	Turbocharging & inter-air cooling		Turbocharging & inter-air cooling		Turbocharging & inter-air cooling	
	Displacement (L)	8.4		8.9		8.9	
	Engine lubricating oil quantity(L)	90		90		90	
	Fuel tank capacity (L)	400		400		400	
	Number of batteries	2		2		2	
Machine parameters	Length (mm)	3600		3600		3600	
	Width (mm)	2100		2100		2100	
	Height (mm)	2900		2900		2900	
	Weight (kg)	4100		4200		4200	
	Noise level (sound level) db	85 ± 3		85 ± 3		85 ± 3	
	Exhaust emission standards	China III		China III		China III	



Imported heavy duty air filter



Brand Power



Humanized control system

- *Support customized color/logo/configuration.*
- *Stable quality and excellent performance.*
- *Available: no wheels/2 wheels/4 wheels,suitable for mining, engineering,and drilling applications.*







Model		OPM-315-15	OPM-375-25	OPM-375-30	OPM-410-20	OPM-410-25	OPM-410-30
Model style		No /Four wheel	No-wheel		No /Four wheel		
Screw air compressor	Compression level	Two-stage	Two-stage		Two-stage		
	Exhaust pressure	15bar (218psi)	25bar (363psi)	30bar (435psi)	20bar (290psi)	25bar (363psi)	30bar (435psi)
	Volumetric flow	35m3/min (1225cfm)	35m3/min (1225cfm)	25m3/min (770cfm)	40m3/min (1400cfm)	38m3/min (1330cfm)	36m3/min (1260cfm)
	Max towing speed (km/h)	20	//		//		
	Air supply valve size / quantity	G2" *1 G1" *1	G1"*1 G11/2"*1 G2"*1		G1"*1 G11/2"*1 G2"*1		
	Max recommended working altitude	2000	2000		2000		
Diesel engines	Rated power (kw)/speed (r/min).	315/2200	375/1800		410/1900		
	Brand name	YUCHAI	YUCHAI		CUMMINS		
	Number of cylinders	6	6		6		
	Air inlet method	Turbocharging & inter-air cooling			Turbocharging & inter-air cooling		
	Displacement (L)	10.3	13		13		
	Engine lubricating oil quantity(L)	120	120		120		
	Fuel tank capacity (L)	600	700		700		
	Number of batteries	2	2		2		
Machine parameters	Length (mm)	3800	4000		4000		
	Width (mm)	2300	2400		2400		
	Height (mm)	2900	2600		2600		
	Weight (kg)	4800	5500		6500		
	Noise level (sound level) db	85 ± 3	88 ± 3		88± 3		
	Exhaust emission standards	China III	China III		China III		

AIR DRYER





Model		OFD-1	OFD-2	OFD-3	OFD-6	OFD-8	OFD-10	OFD-13	OFD-15
Processing capacity (m³/min)		1.5	2.5	3.5	6.5	8.5	10.5	13.5	15.5
Working pressure (bar)		2-10 bar （16/20/30/40bar can be customized）							
Dew point temperature(°C)		2-10℃							
Operating temperature		≤ 45℃							
Voltage		220V/50Hz/1P or 220V/60Hz/1P or other voltage							
Compressor power (kw)		0.5	0.7	0.9	1	1.6	2	3	3.1
Fan power (w)		80	95	120	240	300	380	420	480
Air outlet diameter (mm)		DN25	DN25	DN40	DN40	DN50	DN50	DN50	DN50
Dimensions	Length (mm)	650	750	800	930	1000	1050	1280	1160
	Width (mm)	420	420	440	500	580	600	650	700
	Height (mm)	620	710	800	910	1000	1030	1120	1230
Machine net weight (kg)		31	38	50	70	87	140	167	190

Model		OFD-20	OFD-25	OFD-30	OFD-40	OFD-50	OFD-60	OFD-80	OFD-100
Processing capacity (m³/min)		20	25	30	40	50	60	80	100
Working pressure (bar)		2-10 bar （16/20/30/40bar can be customized）							
Dew point temperature(°C)		2-10℃							
Operating temperature		≤ 65℃							
Voltage		380V/50Hz/3P or 220V/440V/60Hz/3P or other voltage							
Compressor power (kw)		3.68	4.41	5.15	6.62	8.82	11.03	14.7	18.4
Fan power (w)		480	480	720	720	720	760	960	1440
Air outlet diameter (mm)		DN75	DN75	DN100	DN100	DN100	DN100	DN150	DN150
Dimensions	Length (mm)	1500	1550	1770	1950	1950	2200	2500	2700
	Width (mm)	750	750	850	900	1050	1325	1325	1600
	Height (mm)	1440	1600	1445	1560	1600	1585	1695	2100
Machine net weight (kg)		220	270	360	490	560	680	760	970

MODULAR ADSORPTION AIR DRYER





FEATURES

● Energy saving

Unique silencer emission design saves more than 50% than traditional dryers.

● Low leakage point

Scientific fluid distribution design to overcome the tunnel effect. The adsorption module is designed according to the "golden ratio" for more thorough adsorption.

● Modular design

Compact, small, beautiful, takes up little space, and easy to install. The entire adsorption process is made more thorough and the molecular sieve utilization rate is increased.

Model		MAD-1.5/16	MAD-2.5/16	MAD-3.8/16	MAD-5/16	MAD-7.5/16	MAD-10/16
Processing capacity (m³/min)		1.5	2.5	3.8	5	7.5	10
Work pressure (bar)		12-16bar					
Dew point temperature(°C)		-40℃					
Operating temperature		≤ 50℃					
Voltage		220V/50Hz/1P or 220V/60Hz/1P or other voltage					
Matching air compressor power(HP)		20HP	30HP	40HP	50HP	75HP	100HP
Air outlet diameter (mm)		DN20	DN20	DN20	DN25	DN25	DN50
Dimensions	Length (mm)	260	260	260	320	320	320
	Width (mm)	350	350	350	580	580	580
	Height (mm)	680	1010	1260	1010	1230	1700
Machine net weight (kg)		22	30	37	58	75	90

TWO-TOWER ADSORPTION AIR DRYER





Model	OAD-1	OAD-2	OAD-3	OAD-6	OAD-8	OAD-10	OAD-13
Working pressure (bar)	2-10（16bar, 20bar, 30bar can be customized）						
Operating temperature(℃)	45						
Processing capacity (m³/min)	1	2	3	6	8	10	13
Air outlet diameter	DN25	DN25	DN25	DN40	DN50	DN50	DN50
Length (mm)	690	750	860	1010	1010	1240	1280
Width (mm)	450	500	540	700	700	800	800
Height (mm)	1290	1324	1350	1558	1785	2232	2232
Weight (kg)	120	130	230	330	390	420	550

Model	OAD-15	OAD-20	OAD-25	OAD-30	OAD-40	OAD-50
Working pressure (bar)	2-10（16bar, 20bar, 30bar can be customized）					
Operating temperature(℃)	45					
Processing capacity (m³/min)	15	20	25	30	40	50
Air outlet diameter	DN65	DN65	DN80	DN80	DN100	DN100
Length (mm)	1280	1320	1700	1750	1850	1900
Width (mm)	860	860	930	960	1060	1100
Height (mm)	2360	2477	2570	2626	2646	2750
Weight (kg)	650	970	750	1150	1300	1500

AIR TANK



Model	OAT-300/8	OAT-300/10	OAT-600/8	OAT-600/10	OAT-600/13	OAT-600/16	OAT-1000/8	OAT-1000/10
Capacity(L)	300	300	600	600	600	600	1000	1000
Working pressure (bar)	8	10	8	10	13	16	8	10
Height (mm)	1770	1770	1905	1905	1905	1905	2180	2180
Inner diameter (mm)	500	500	700	700	700	700	800	800
Weight (kg)	75	84	121	121	163	202	155	155

Model	OAT-1000/13	OAT-1000/16	OAT-1000/20	OAT-1000/25	OAT-1000/30	OAT-1000/40	OAT-2000/8	OAT-2000/10
Capacity(L)	1000	1000	1000	1000	1000	1000	2000	2000
Working pressure (bar)	13	16	20	25	30	40	8	10
Height (mm)	2180	2180	2180	2180	2180	2180	2860	2860
Inner diameter (mm)	800	800	800	800	800	800	1000	1000
Weight (kg)	216	273	388	388	465	565	315	375

Model	OAT-2000/13	OAT-2000/16	OAT-2000/20	OAT-2000/25	OAT-2000/30	OAT-3000/10	OAT-3000/13	OAT-3000/16
Capacity(L)	2000	2000	2000	2000	2000	3000	3000	3000
Working pressure (bar)	13	16	20	25	30	10	13	16
Height (mm)	2860	2860	2860	2860	2860	/	/	/
Inner diameter (mm)	1000	1000	1000	1000	1000	1300	1300	1300
Weight (kg)	445	580	580	725	870	642	765	765

Note: Can be selected stainless steel material.

SPARE PARTS



Oil Filter



Air Filter



Oil-Gas Seperator



Precision Filter
Q P S / C T A



Maintenance Filter
Q P S / C T A



High precision Filter
CTAXF



Maintenance Filter
CTAXF



Ultra-fine filter



Center bracket



Coupling



Plum blossom pad
in coupling



Intake valve



Minimum
pressure valve



Temperature sensor



Pressure sensor



Oil level gauge



Automatic
drain valve



Electronic
drain valve



Air tank
automatic drain valve



Controller



Pressure gauge



Safety valve



Oil return check valve



Shaft seal
Shaft sleeve



Inverter



Air filter assembly



SIEMENS
AC contactor



Schneider
AC contactor



Pipeline



Three-way
air outlet



Connector



Pressure reducing
valve











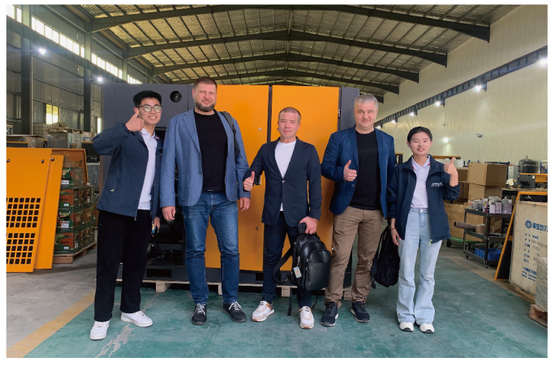















OPPAIR

Skid mounted Compressor for 10000/20000w laser cutting

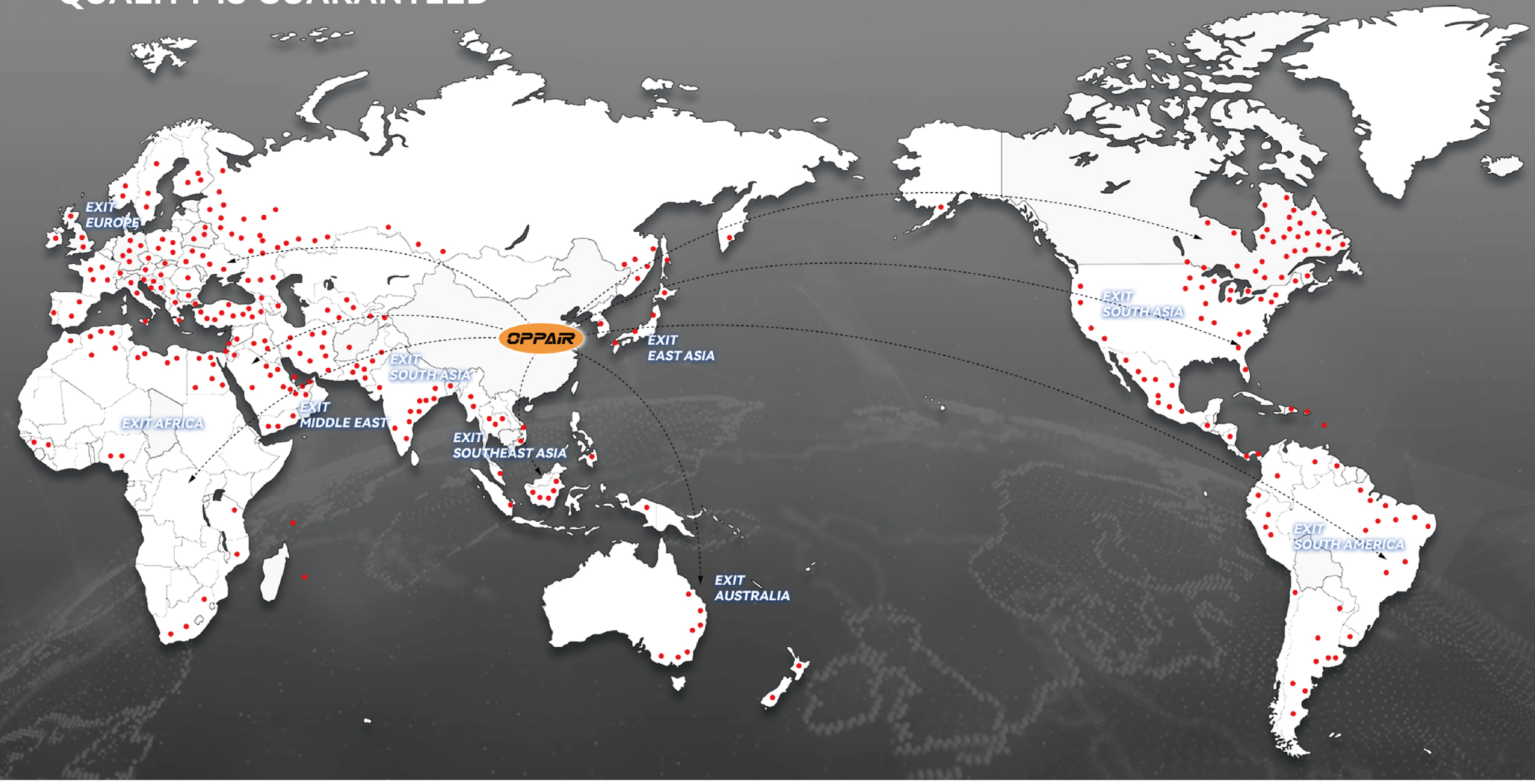
Diesel mobile compressor
Skid mounted Compressor for 10000/20000w laser cutting
ENERGY SAVING

75KW





EXPORTED 100+ COUNTRIES
COMPLETE CERTIFICATES
QUALITY IS GUARANTEED



OPPAIR

WE SINCERELY INVITE GLOBAL AGENTS!
WELCOME TO VISIT OPPAIR!