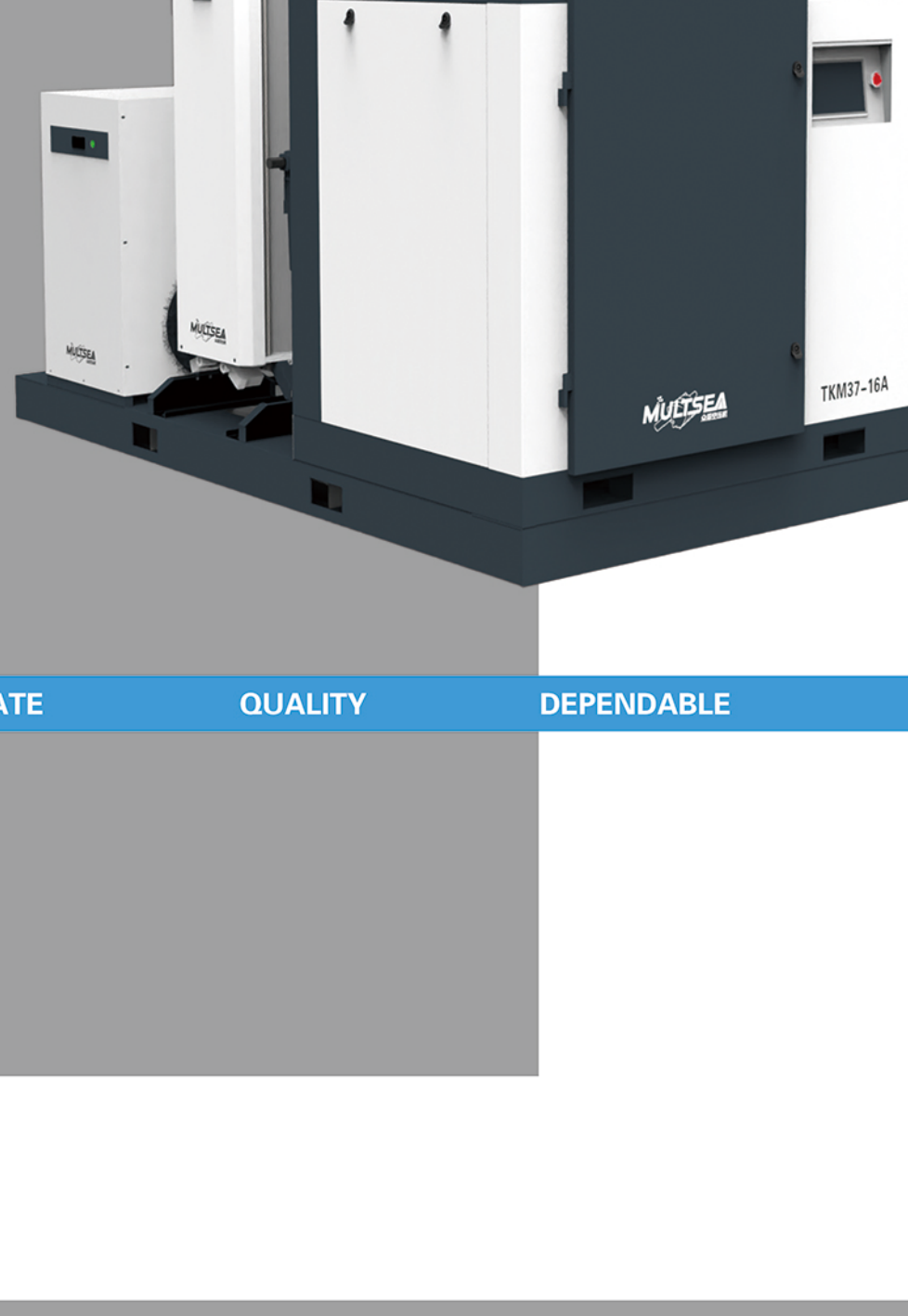


MANUFACTURER OF AIR SYSTEMS SPECIAL FOR LASER CUTTING

激光切割专用空气系统制造商



山东众海机械有限公司
Shandong Zhonghai Machinery Co., Ltd



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INNOVATE QUALITY DEPENDABLE FUTURE

1 | INNOVATE

INNOVATE | 2

What kind of product are you making?
We are a professional compressor problem solver

SINGLE STAGE SCREW COMPRESSOR AIR END

Got new ideas?
We are willing to innovate with you

Common Development

Since 2015, we have been focusing on screw air compressor technology and becoming an energy-saving air compressor manufacturer. Today, MULTSEA can provide a comprehensive "multisea solution" to the fiber laser cutting market. Our product series includes: laser engraving specialized combination machines, laser cutting specialized combination machines, laser cutting specialized air compression stations, laser cutting dual purpose air compressor units, laser cutting box type air compression stations, laser cutting high-pressure combination machines, laser specialized purification systems, and laser cutting air detection systems. The reason why we continue to develop new products and become a market benchmark is that we focus on researching, manufacturing, and selling world-class air compressor systems, and we look forward to working together with our users for development.

Over the past 8 years, over 120,000 MULTSEA screw air compressors have been put into the market and generated profits. Innovation is our engine.

In 2016, we obtained the ISO9001 quality management system certification. In 2017, we obtained the CE safety certification, which has always been the key to opening up the EU market. In 2018, we obtained the GCCA product quality and safety certification. In 2019, we were awarded the title of "Enterprise Standard Leader for Variable Frequency Screw Air Compressor". In 2020, we were awarded the title of "Energy Efficiency Label Testing Laboratory". In 2021, we became a high-tech enterprise in Shandong Province. In 2022, we became a specialized, refined, and innovative enterprise in Shandong Province, with a total of 16 invention patents, 64 utility model patents, 14 appearance patents, and 2 computer software works.

The newly developed laser industry replacement products, such as laser cutting high-pressure combination machines, laser cutting dual purpose air compressor units, and laser cutting dedicated purification systems, are all the results of joint efforts by users and employees of MULTSEA.

SAVE | 4

Do you expect the highest quality?
We never compromise.

Do you need efficient energy conservation?
Our energy-saving products will definitely satisfy you.

Technical Parameter

product specifications may be updated over time, please consult the product manager for details

Name	Model	Power (kW)	Pressure (MPa)	Free Air Delivery (m³/min)	Weight (kg)	Dimension (L*W*H) (mm)	Air Outlet Pipe Diameter (mm)
POLARS	TKM15-3BA	15	1.6	1.5	602	1780*790*1780	G1
	TKM22-3BA	22	1.6	2.6	689	1840*890*1780	G1
	TKM37-3BA	37	1.6	3.7	805	2300*990*2020	G1-1/2

Technical Parameter

product specifications may be updated over time, please consult the product manager for details

Name	Model	Power (kW)	Pressure (MPa)	Free Air Delivery (m³/min)	Weight (kg)	Dimension (L*W*H) (mm)	Air Outlet Pipe Diameter (mm)
	TKM15-3BA	22	1.6	2.6	880	1800*1300*1780	G1
	TKM22-3BA	30	1.6	3.1	930	1800*1300*1780	G1
	TKM37-3BA	37	1.6	3.7	1130	2000*1300*1780	G1-1/2

3 | QUALITY

SAVE | 4

Technical Parameter

product specifications may be updated over time, please consult the product manager for details

Name	Model	Power (kW)	Pressure (MPa)	Free Air Delivery (m³/min)	Weight (kg)	Dimension (L*W*H) (mm)	Air Outlet Pipe Diameter (mm)
FASTANT	KYM15-3BA	7.5	0.8	1.06	136	1380*700*1220	G3/4
	KYM15-4BA	7.5	1.45	0.7	136	1380*700*1220	G3/4
	KYM15-4BA	7.5	1.45	0.7	136	1380*700*1220	G3/4
	KYM15-4BA	11	1.6	1.1	118	1780*790*1780	G1
	KYM15-4BA	15	1.6	1.5	172	1780*790*1780	G1
	KYM15-4BA	22	1.6	2.6	630	1840*890*1780	G1
	KYM15-4BA	30	1.6	3.1	701	1840*890*1780	G1
	KYM15-4BA	37	1.6	3.7	805	2300*990*2020	G1-1/2

NOTE
TK stands for MULTSEA Integrated coaxial air cooling model
KY stands for MULTSEA Simplified integrated coaxial air cooling model
TS stands for MULTSEA Split type direct drive air-cooled model
M stands for Permanent magnet variable frequency model
A stands for Combined machine

Technical Parameter

product specifications may be updated over time, please consult the product manager for details

Name	Model	Power (kW)	Pressure (MPa)	Free Air Delivery (m³/min)	Weight (kg)	Dimension (L*W*H) (mm)	Air Outlet Pipe Diameter (mm)
	TKM15-3BA	22	2.5	1.4	657	1840*890*1780	G1
	TKM22-3BA	30	2.5	2.1	640	1840*890*1780	G1
	TKM37-3BA	37	2.5	2.5	869	2300*990*2020	G1-1/2
	TKM45-3BA	45	2.5	3.4	901	2300*990*2020	G1-1/2

Technical Parameter

product specifications may be updated over time, please consult the product manager for details

Name	Model	Power (kW)	Pressure (MPa)	Free Air Delivery (m³/min)	Weight (kg)	Dimension (L*W*H) (mm)	Air Outlet Pipe Diameter (mm)
	TKM15-3BA	15	1.6	1.5	501	1500*1000*1500	G1
	TKM22-3BA	22	1.6	2.6	540	1700*1000*1500	G1
	TKM37-3BA	37	1.6	3.7	730	1800*1000*1500	G1-1/2

NOTE
TK stands for MULTSEA Integrated coaxial air cooling model
TS stands for MULTSEA Split type direct drive air-cooled model
A stands for Combined machine
B stands for Two stage compression

5 | SYSTEM

SPACE | 6

Are you looking forward to a truly high pressure product?
Please learn about our high pressure system.

Do you need smaller products to achieve the same effect?
We have a plan.

Technical Parameter

product specifications may be updated over time, please consult the product manager for details

Name	Model	Power (kW)	Pressure (MPa)	Free Air Delivery (m³/min)	Weight (kg)	Dimension (L*W*H) (mm)	Air Outlet Pipe Diameter (mm)
POLARS	TKM15-3BA	22	2.5	1.4	657	1840*890*1780	G1
	TKM22-3BA	30	2.5	2.1	640	1840*890*1780	G1
	TKM37-3BA	37	2.5	2.5	869	2300*990*2020	G1-1/2
	TKM45-3BA	45	2.5	3.4	901	2300*990*2020	G1-1/2

Technical Parameter

product specifications may be updated over time, please consult the product manager for details

Name	Model	Power (kW)	Pressure (MPa)	Free Air Delivery (m³/min)	Weight (kg)	Dimension (L*W*H) (mm)	Air Outlet Pipe Diameter (mm)
	TKM15-3BA	15	1.6	1.5	501	1500*1000*1500	G1
	TKM22-3BA	22	1.6	2.6	540	1700*1000*1500	G1
	TKM37-3BA	37	1.6	3.7	730	1800*1000*1500	G1-1/2

NOTE
TK stands for MULTSEA Integrated coaxial air cooling model
TS stands for MULTSEA Split type direct drive air-cooled model
A stands for Combined machine
B stands for Two stage compression

KNOW ABOUT MULTSEA MANUFACTURER

We believe that products are not conventional. In the process of communicating with users, we have learned which details are important for improvement, which omissions are fatal, and which development are valuable to enterprises and society. In the stage of demand transformation, the actual functionality of each component should ensure that it exceeds its technical standards. MULTSEA's product manager will coordinate with customers and engineers to control the production process to achieve continuous quality improvement and higher process stability, until the mass production of this product. We strive to retain the unique and irreplaceable skills and abilities of all MULTSEA employees, and once again strive to promote the technical improvement of our products until we achieve user satisfaction and recognition. In fact, it is us and the users who together endow our products with tenacious vitality.

7 | PURIFY

PURIFY | 8

If you need absolutely oil-free high-pressure air
The MULTSEA Purification Series is your best choice

Do you need high-pressure air without water?
We have two sets of drying systems.

Innovation, Reliability, High Standards

The MULTSEA Purification MS series is an oil purification equipment developed based on catalytic oxidation technology. This technology is different from traditional filtration technology and is not affected by factors such as ambient air quality, pressure, temperature, humidity, and the lifespan of consumables such as filter cartridges. It has a wide range of applications. The equipment adopts an integrated reaction design, which can continuously meet the highest purification level of Class 0 oil-free compressed air required by the standard GB/T13277.1-2008 (eqv. ISO8573.1).

Technical Parameter

product specifications may be updated over time, please consult the product manager for details

Name	Model	Power (kW)	Pressure (MPa)	Processing Volume (m³/min)	Dimension (L*W*H) (mm)	Air Outlet Pipe Diameter (mm)
	MC0.8-1.6	0.8	1.6	0.8	430X380X860	GL/2
	MC0.8-2.5	0.8	2.5	0.8	430X380X860	GL/2
	MC1.5-1.6	1.5	1.6	1.5	430X380X860	GL/4
	MC1.5-2.5	1.5	2.5	1.5	430X380X860	GL/4
	MC2-1.6	2	1.6	2.5	980X410X1050	G1
	MC2-2.5	2	2.5	2.5	980X410X1050	G1
	MC2.2-1.6	2.2	1.6	4	980X410X1050	GL 1/4
	MC2.2-2.5	2.2	2.5	4	980X410X1050	GL 1/4

Stable, Green, Energy-saving

The working principle of the MULTSEA purification MN series products is based on reducing the temperature of compressed air, allowing water vapor to carry dust and precipitate water droplets, which are automatically discharged. The MN series products focus on using aluminum alloy plate material because its heat exchange efficiency is extremely high per unit area, and the processing capacity of compressed air in the same space is also great. Similarly, the all-aluminum alloy design of the gas path is more corrosion-resistant, eliminating secondary pollution, and ensuring that the comprehensive performance of this series of products is more stable in laser cutting applications.

Technical Parameter

product specifications may be updated over time, please consult the product manager for details

Name	Model	Power (kW)	Pressure (MPa)	Processing Volume (m³/min)	Weight (kg)	Dimension (L*W*H) (mm)	Air Outlet Pipe Diameter (mm)
	MN0.8-1.6	0.8	1.6	1	48	380*1200*950	G1
	MN0.8-2.5	0.8	2.5	1	48	380*1200*950	G1
	MN1.5-1.6	1.5	1.6	2	52	380*1200*950	G1
	MN1.5-2.5	1.5	2.5	2	58	380*1200*950	G1
	MN2-1.6	2	1.6	2.6	65	380*1200*950	G1
	MN2-2.5	2	2.5	2.6	72	380*1200*950	G1
	MN2.2-1.6	2.2	1.6	3.8	84	500*1400*950	G1-1/2
	MN2.2-2.5	2.2	2.5	3.8	95	500*1400*950	G1-1/2

The MULTSEA Purification MK series is mainly a modular suction dryer. When the most gas collides with the adsorbent according to a fixed flow direction curve, it absorbs liquid water from the air under pressure. Due to the saturation of water absorbed by the adsorbent, as long as the instantaneous depressurization method is used, the water will automatically desorb to the adsorbent. The MK series utilizes this feature and adopts a dual group switching method, alternating work according to the procedures of adsorption, desorption, regeneration, and charging.

Technical Parameter

product specifications may be updated over time, please consult the product manager for details

Name	Model	Power (kW)	Pressure (MPa)	Processing Volume (m³/min)	Weight (kg)	Dimension (L*W*H) (mm)	Air Outlet Pipe Diameter (mm)
	MK0.8-1.6	0.8	1.6	0.8	95	695*400*1100	G1
	MK0.8-2.5	0.8	2.5	0.8	100	695*400*1100	G1
	MK1.5-1.6	1.5	1.6	1.5	95	695*400*1100	G1
	MK1.5-2.5	1.5	2.5	1.5	100	695*400*1100	G1
	MK2-1.6	2	1.6	2.5	105	695*400*1100	G1
	MK2-2.5	2	2.5	2.5	112	695*400*1100	G1
	MK2.2-1.6	2.2	1.6	4	119	695*400*1100	G1-1/2
	MK2.2-2.5	2.2	2.5	4	123	695*400*1100	G1-1/2

9 | PURIFY

PURIFY | 10

Do you need to verify the gas quality?
MULTSEA Testing can help you solve problems.

MULTSEA IoT Integrated CRM management

Confirming quality through testing

Our new detection system is specifically designed to accurately monitor air or gas quality in many industrial applications. With our equipment, our users can prove the quality of air or gas according to the ISO8573 standard. We provide a "cost-efficiency" standard system that balances flexibility and modularity, designed according to user and application requirements.

Reliability, high reading accuracy, ultra low sensors, service life, and on-site proofreading are the most significant product features of our product. Our measuring equipment is manufactured to the highest quality standards.

MJ product series

MJ oil monitor

An online measurement system for oil/hydrocarbon content in gases according to the ISO8573-5 standard.

MJ oil pipe

An online measurement system for oil/hydrocarbon content in collected gases according to the 8573-2 and -5 standards.

MJ multiple gases

According to the modular online measurement system applied by the customer, suitable sensors include CO₂, CO, O₂, SO₂, NO₂, He, H₂S, and can measure pressure, temperature, humidity, and pressure dew point.

MJ Super Multiple Gas

A high-resolution online measurement system for measuring oil/hydrocarbon content in air and process gases under any conditions.

MULTSEA 众海

11 | PURIFY

PURIFY | 12

Do you value high-quality service?
We are always ready.

What are your dissatisfaction with our products?
Thank you for your valuable feedback.

Our services include

- Technical suggestions and scheme optimization
- Training course
- For example, installation, operation, maintenance, technical guidance, etc
- Spare parts service
- Customization of user needs
- Grid based on-site after-sales service
- Industry case sharing

Users are the true boss of MULTSEA, accepting criticism with an open mind, always paying attention to customer needs, and focusing on user experience are our important principles. We pursue how to achieve users' dreams, and from leaders to employees, we are committed to continuous optimization of products, services, and systems with a sense of responsibility and mission, in order to provide customers with solid quality products.

The truth is all naked.
—Qian Zhongshu

MULTSEA 众海

13 | PURIFY

PURIFY | 14

What kind of future are you envisioning?
MULTSEA helps you achieve your blueprint.

What other concerns do you have?
Please leave your comments or suggestions.

We have great plans for the future, we are opening up emerging markets and expanding our presence in global markets. An open and friendly team is always ready to assist you, as everything we do is focused on users.

MULTSEA also hopes to contribute to the environment, realizing that humans should reduce greenhouse gas emissions for the future of our planet. Every time we develop our products, we need to consider factors such as environmental protection, energy efficiency, noise, and so on.

We will continue to expand vigorously in the future, explore the future with our users, and transform it into economic benefits.

MULTSEA 众海