

# EMUSEN

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EMUSEN

广东爱木森压缩机科技有限公司  
Guangdong EMUSEN Compressor Technology Co., Ltd.

laser Cutting Special Use Compressor  
[www.airmusen.com](http://www.airmusen.com)



## Laser Cutting Machine



激光切割机是指从激光器发射出的激光，经光路系统，聚焦成高功率密度的激光束。

激光束照射到工件表面，使工件达到熔点或沸点，同时与光束同轴的高压空气将熔化或气化后的金属吹走。

对于高压空气的含水量和含油量要求极高。

Laser cutter is a laser emitted from the laser, through the optical path system, focusing into a laser beam with high power density.

Laser beam hits the surface of the workpiece, melted the work-piece to a melting point or boiling point, while high pressure air coaxial with the beam blows away the molten or gasified metal.

High water content and oil content requirements for high pressure air.

## Compressor system for laser cutting with dryer and tanks

### 激光切割专用空压机



## All in one laser cutting special use air compressor

### 一体式激光切割专用空压机



广东爱木森压缩机科技有限公司是一家专业生产空压机的生产型企业，可以为您提供高品质的压缩机产品和服务，提供一站式空气系统解决方案。

公司多年来不断努力发展，现主要生产的产品有无油中高压空压机、有油中高压空压机、中高压螺杆增压空压机、螺杆机、后处理净化设备，激光切割专用空压机等产品。

Guangdong EMUSEN Compressor Technology co., ltd. is a manufacture specialized in producing air compressor, we can provide you with high quality products and service, one stop air compressor system solution.

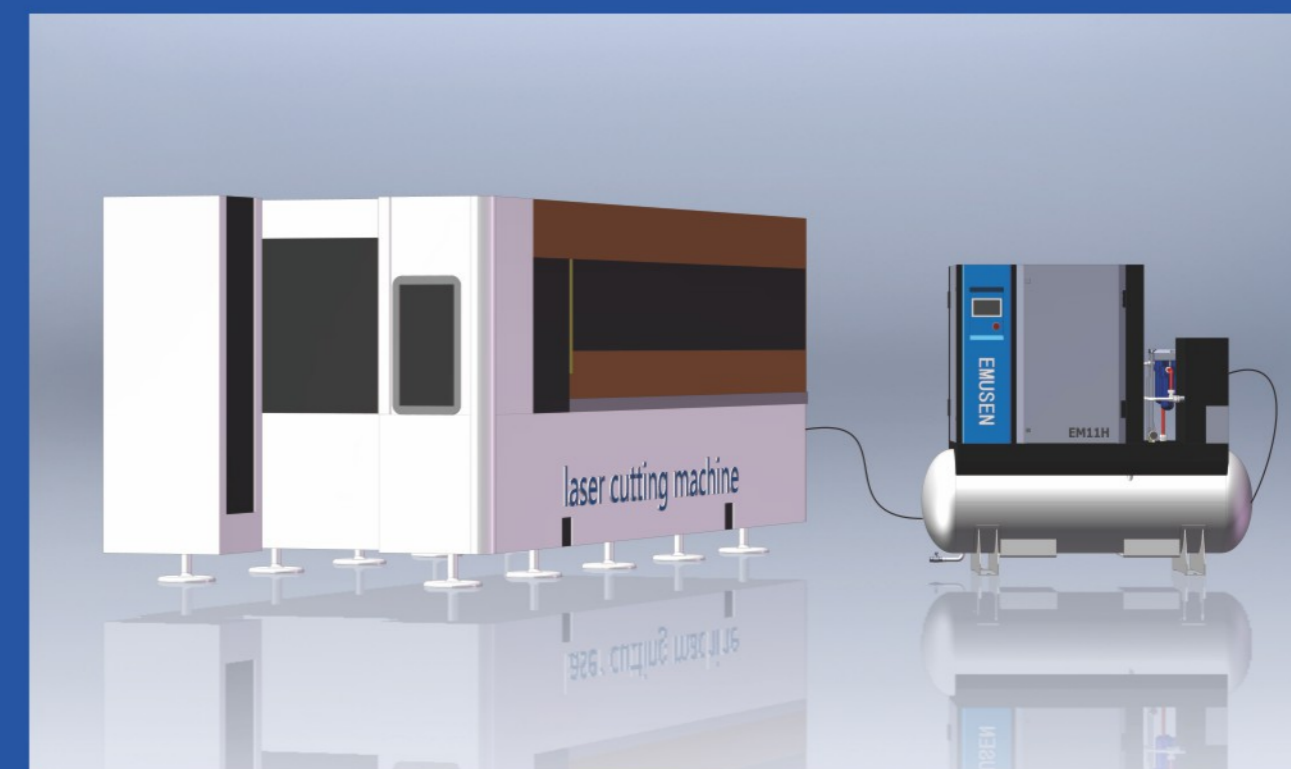
With years of effort, our main products including oil-free medium pressure and high pressure air compressor, oil-lubricated medium pressure and high pressure air compressor, medium pressure and high pressure boost air compressor, screw air compressor, air treatments, laser cutting industry special use air compressor and so on.

机组采用模块一体化集成设计，结构简单，安装方便，减少管道压损，减少易损件等优点，系统采用A系列智能变频控制器控制，机器运行时自动做全方位性能检测为机器运行提供保驾护航。

低运行成本，低能耗，低维护成本，低无功消耗，节约能源。

Adopt integrated design, the compressor is with the advantages of simple structure, easy to install, less pipe pressure loss, less wearing parts. The system is with A series intelligent controller, which can all-round detect the compressor performance to escort the safety operation.

Low running cost, low energy consumption, low maintenance cost, low unloading consumption, save energy.



### 技术参数 Technical Parameters

型号 Models	容积流量 FAD (m <sup>3</sup> /min)	排气压力 Pressure (kg)	装机功率 Power (kw)	排气出口尺寸 Outlet size	重量 Weight (kg)	外形尺寸 Dimension (mm)
EM11H	1.08	15.5	11	DN15	650	1780*780*1650
EM15H	1.3	15.5	15	DN15	680	1780*780*1650

## All in one laser cutting frequency conversion use air compressor

### 一体式激光切割变频空压机



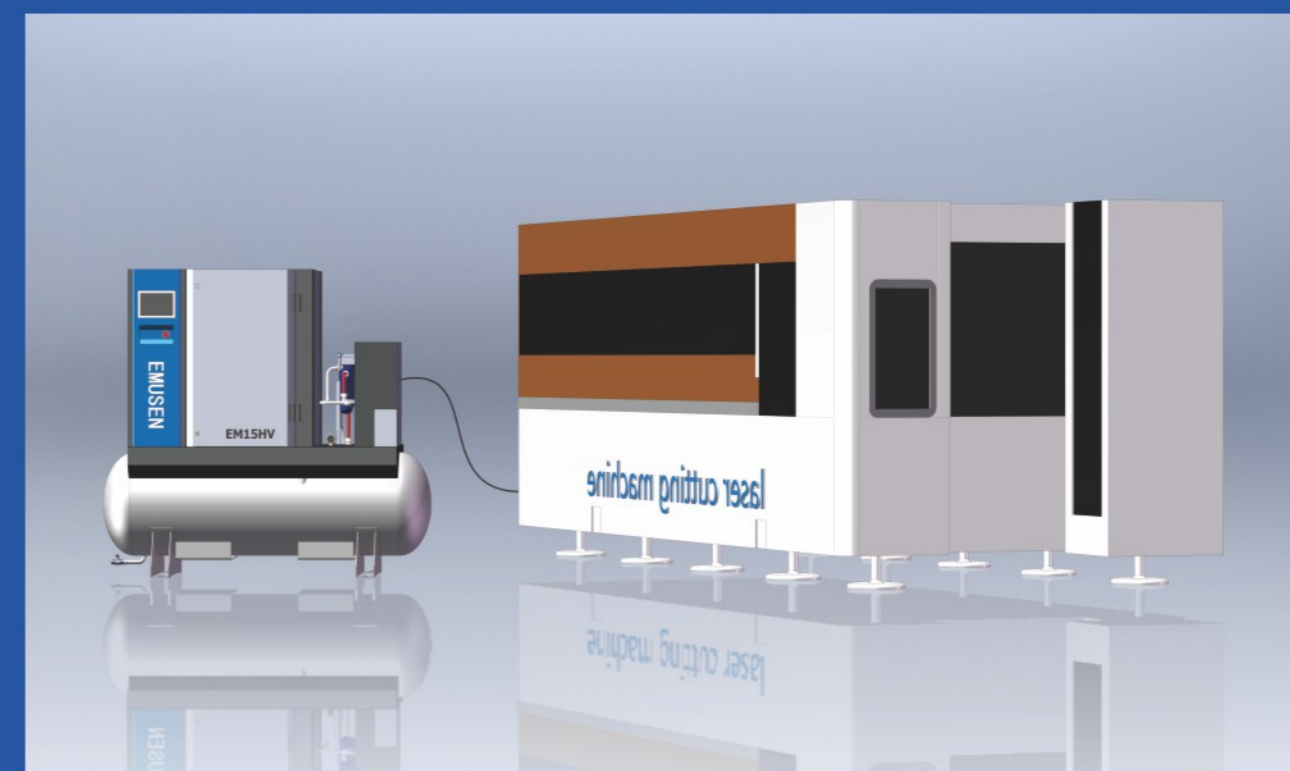
EMUSEN激光切割专用空压机提供采集大数据PLC控制器，通过变频恒压控制让目标压力控制在一个稳定的压力范围内，使激光切割机达到各种材料切割效果，通过恒压控制，当用气量小时自动恒压控制减低功率工作达到节能降耗的效果。

EMUSEN laser cutting special use air compressor is equipped with PLC controller, which can collect big data, through frequency conversion constant voltage control, the target pressure is controlled in a stable range. To make the laser cutting machine to achieve cutting effect of a variety of material, through constant voltage control, when using the less capacity, it can automatic reduce the power to reach the effect of energy saving.

### 创新 Innovation

通过对传统空气压缩机布置方式的变革，爱木森压缩机为整个行业带来了全新变革。不同于其他分体设计，浪费空间，采用卧式设计的EM系列占地面积更小，更大程度地节约了场地和工作空间，且维护简单。

By changing the layout of traditional air compressors, EMUSEN compressors have brought changes to the whole industry. Unlike other waste space split designs, the EM series adopts a horizontal design with a smaller floor space and longer range to save space and work space and it is simple in maintain.



### 技术参数 Technical Parameters

型号 Models	容积流量 FAD (m <sup>3</sup> /min)	排气压力 Pressure (kg)	装机功率 Power (kw)	排气出口尺寸 Outlet size	重量 Weight (kg)	外形尺寸 Dimension (mm)
EM15HV	1.3	15.5	15	DN15	750	1780*780*1650
EM22WV	2.4	15.5	22	DN25	950	1950*890*1850

## Laser cutting industry special use All in one frequency variable screw air compressor

### 一体式变频集成激光切割专用螺杆机



#### 卓越的一体式压缩空气解决方案

省钱又保护环境

避免了系统腐蚀和泄漏的风险，安全处置未经处理的冷凝水。

换热器板换式设计，压降更低

降低运行费用

通过降低环保型干燥机制冷剂的用量，减少温室气体排放50%

未经处理的压缩空气含有水分、油和固体颗粒，会破坏您的空气系统，污染您的最终产品，造成压缩空气系统腐蚀和泄漏的风险。维护保养费用会远远超过处理空气的成本，EMUSEN压缩机提供洁净、干燥的空气，提高了压缩空气系统的可靠性，避免了昂贵的故障停机和生产延误成本。

Excellent integrated air solutions

Saving money and protecting the environment

Avoiding the risk of system corrosion and leakage, and safely disposing of untreated condensed water.

Heat exchanger plate change type design, lower pressure drop

Reducing operating costs

Reducing greenhouse air emissions by 50% by reducing the amount of refrigerant used in environmentally friendly dryers

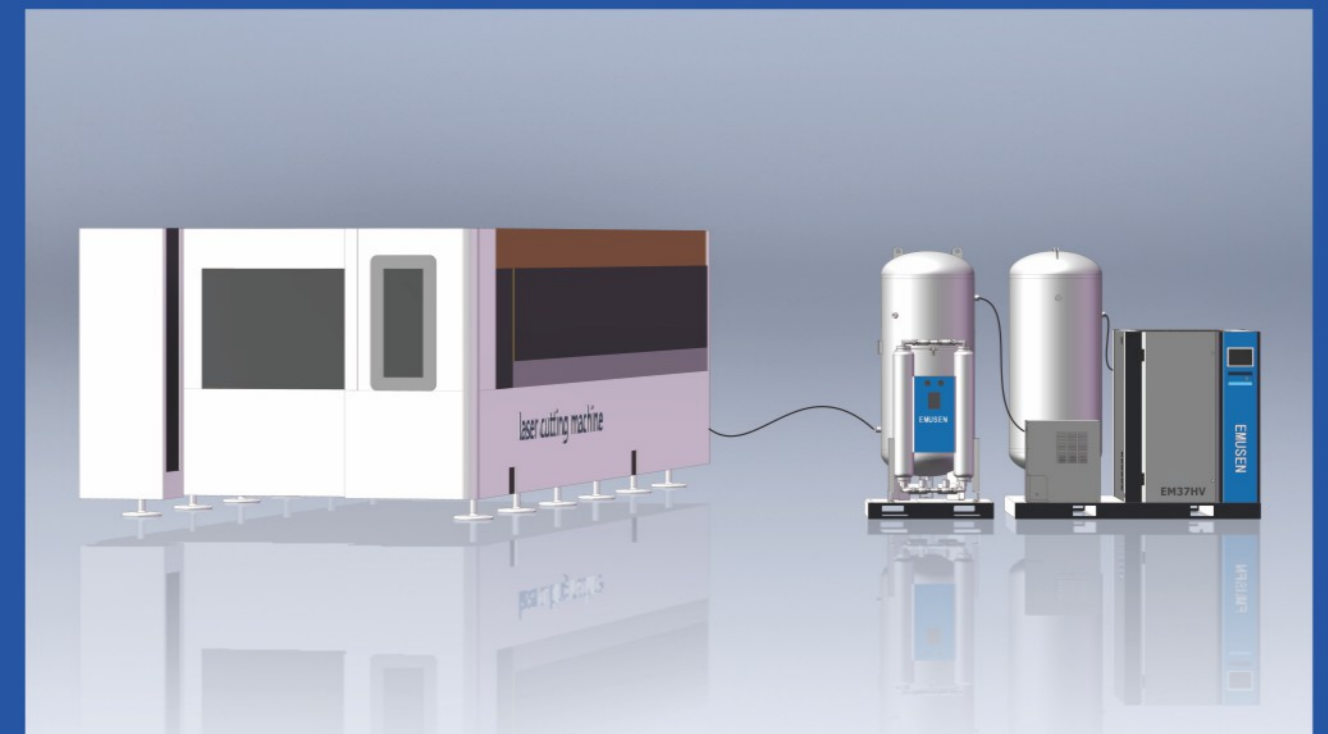
Untreated compressed air contains moisture, oil, and solid particles that can damage your air system, contaminate your end product, and pose a risk of corrosion and leakage of the compressed air system. Maintenance costs can far outweigh the cost of handling the air. EMUSEN compressors provide clean, dry air, improving the reliability of compressed air systems and avoiding costly downtime and production delays.

EMUSEN(爱木森) EM系列空压机行业带来了全新的变革。该系列空压机标配变频转速驱动，内置永磁电机 (IPM)，集成冷干机、吸干机和两个储气罐。

结构紧凑、占地面积小，平均节能高达50%，可在各种工况下稳定运行。EM系列超前的设计，在更长的运行时间内，实现低成本运行，为空压机未来的发展设立了新的标准。

EMUSEN EM series has brought a new change to the air compressor industry. This series of air compressor is standard equipped with variable speed drive, built-in permanent magnet motor (IPM), integrated cold dryer, adsorption dryer and two air storage tanks.

Compact structure, small footprint, average energy saving up to 50%, can be stable operation under various working conditions. EM series set a new standard for the future development of air compressor with advanced design, longer running time, low cost operation.



#### 技术参数 Technical Parameters

型号 Models	容积流量 FAD (m <sup>3</sup> /min)	排气压力 Pressure (kg)	装机功率 Power (kw)	排气出口尺寸 Outlet size	重量 Weight (kg)	外形尺寸 Dimension (mm)
EM22HV	2.4	15.5	22	G1	1100	2150*900*1900
EM37HV	3.3	15.5	37	G1	1500	2300*1455*2070
EM45HV	4.2	15.5	45	G1	1800	2300*1455*2070

## V series laser cutting special use air compressor

### V系列激光切割专用机



高效永磁(IPM)电机，结构紧凑，优化的冷却设计，效果显著，电机无轴承，无油脂，延长了有效工作时间

直接传动、卧式设计，更少零部件、无齿轮和皮带，联轴器装置、紧凑，减少占地面积

变频器、电控柜强制冷却，无需额外冷却风扇、全封闭、无杂质进入、外置散热片，单独冷却

High efficient permanent magnet (IPM) motor, compact structure, optimized cooling design, excellent effect, without bearing motor, no grease, which prolong the effective working time

Direct drive, horizontal design, less spare parts, no gearless and belt, connecting shaft device compact, less floor space

Frequency changer, electric control cabinet forced cooling, no need extra cooling fan, whole sealing, inclusion free, external cooling fin, single cooling

压缩机采用进口高精度轴承，采用高精度转子确保均匀的啮合间隙，提高压缩效率，整个密封件采用O型圈密封，杜绝泄漏现象，空压机采用自动调节功能，为后面激光切割提供稳定气源。

Compressor adopts imported high precision bearings, the use of high-precision rotor to ensure uniform gear clearance, improve compression efficiency, the whole seal using O-ring seal, prevent leakage phenomenon, air compressor using automatic adjustment function, provide the laser cutting machine a stable air source.

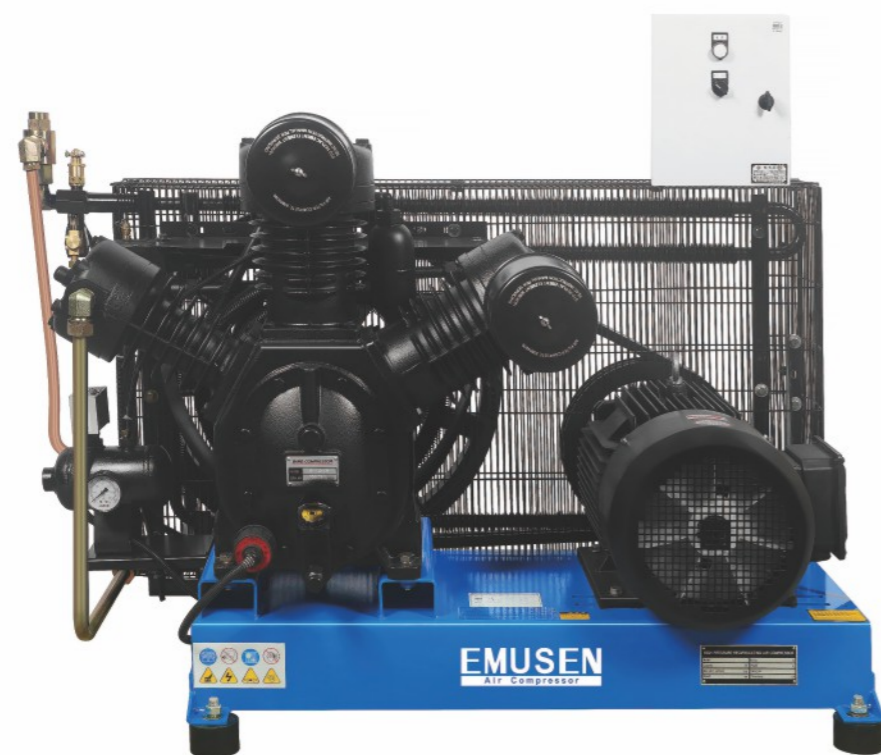


### 技术参数 Technical Parameters

型号 Models	容积流量 FAD (m <sup>3</sup> /min)	排气压力 Pressure (kg)	装机功率 Power (kw)	排气出口尺寸 Outlet size	重量 Weight (kg)	外形尺寸 Dimension (mm)
EM11GS	1.08	15.5	11	G3/4	400	1000*850*1100
EM15VS	1.3	15.5	15	G3/4	400	1000*850*1100
EM22VS	2.4	15.5	22	G1	550	1300*1000*1200
EM37VS	3.3	15.5	37	G1	600	1350*1000*1200

## H series laser cutting special use high pressure air compressor

### H系列激光切割专用高压机



压缩机采用进口高精度轴承，装有高效的高压气阀。

低油位开关系统，适时的检测油位，实行缺油停机保护。

适用于中功率和大功率激光切割，厚板专用切割配套。

空压机压力20-25kg调节功能，为后面激光切割提供稳定气源，更高效的提高切割的速度。

Compressor adopts imported high precision bearing, equipped with efficient high pressure valve.

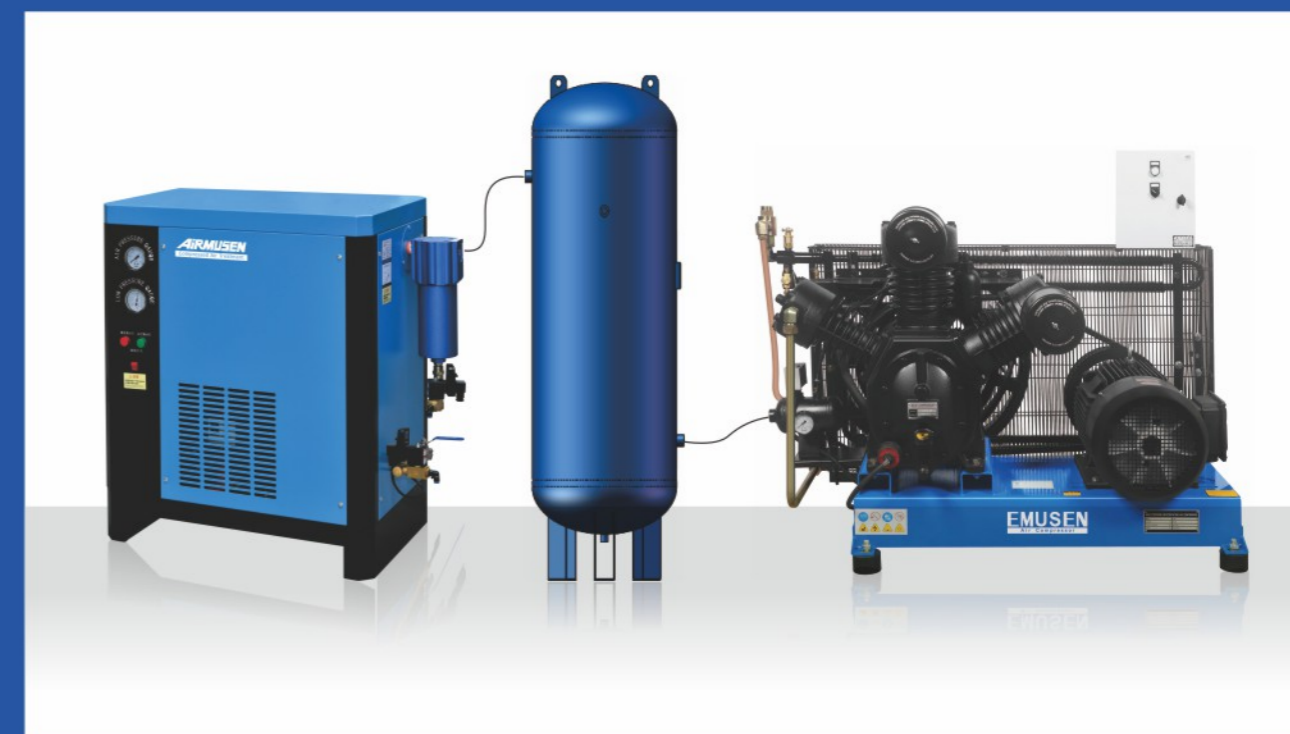
Low oil level switch system, timely detection of oil level, the implementation of oil shortage shutdown protection.

Suitable for medium power and high power laser cutting machine, thick plate special matching for cutting.

Air compressor pressure range adjustment from 20 to 25 bar, providing the laser cutting machine a stable air source, improving the cutting speed more efficiently.

压缩机气阀采用了世界先进的环形气阀，大流量，多动作，高效率等特点，提高了压缩机易损件的使用寿命和工作效率。

Compressor valve adopts the world's advanced annular valve, large flow, multi-action, high efficiency and other characteristics, to ensure the service life and work efficiency of the compressor vulnerable parts.

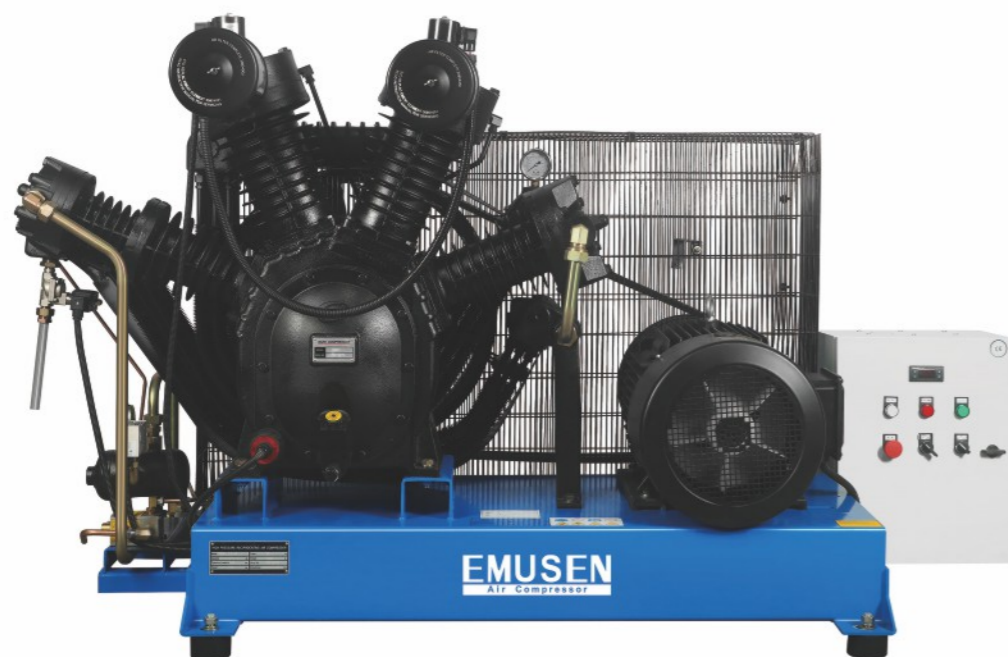


### 技术参数 Technical Parameters

型号 Models	容积流量 FAD (m <sup>3</sup> /min)	排气压力 Pressure (kg)	装机功率 Power (kw)	排气出口尺寸 Outlet size	重量 Weight (kg)	外形尺寸 Dimension (mm)
EMS-1H/30	1	30	11	DN20	513	1490*750*910
EMS-1.2H/30	1.2	30	15	DN20	550	1490*750*910

## H series laser cutting special use high pressure air compressor

### H系列激光切割专用高压机



压缩机主机设计为三级压缩，给用户带来安全，可靠，稳定的气源，风冷的冷却方式。

高压压缩机采用独特高效的冷却器，高效的散热效果，在气缸的表面铸有翅片，有利于压缩机主机散热。

The air-end is designed for three-stage compression, which brings safe, reliable and stable air source and air-cooled cooling mode to users.

The high pressure compressor adopts a unique and efficient cooler for efficient heat dissipation. Fins are cast on the surface of the cylinder, which is conducive to the heat dissipation of the compressor air-end.

压缩机入口装有全自动卸压系统，确保机组在无负荷的情况下安全启动，延长压缩机的使用寿命，有效避免主机和电机的损坏，降低对电网的冲击。

适用于配套多台激光切割和万瓦级激光切割。

Compressor inlet equipped with automatic pressure relief system, ensure the unit in the case of no load safe start, prolong the service life of the compressor, effectively protect the air-end and motor from damaging, reduce the impact on the power grid.

Suitable for supporting multiple laser cutting machines and ten thousand watt laser cutting machines.



### 技术参数 Technical Parameters

型号 Models	容积流量 FAD (m <sup>3</sup> /min)	排气压力 Pressure (kg)	装机功率 Power (kw)	排气出口尺寸 Outlet size	重量 Weight (kg)	外形尺寸 Dimension (mm)
EMS-2H/30	2	30	22	DN25	660	1800*850*1100
EMS-3H/30	3	30	30	DN25	930	2020*935*1100