# 上海耐托弗科技有限公司

Shanghai Netover Technology Co., LTD

产品宣传手册

Product Brochure

# *干式无油螺杆压缩机

# *NF系列搅拌车减速机

*Dry-Type Oil-Free Screw Compressor

*Series NF Mixer Truck Reducer



# 公司简介

上海耐托弗科技有限公司是上海拖内发动机制造有限公司的子公司，成立于2000年，是一家专业生产内燃机，上海50拖拉机及汽车零部件，也是上汽集团相关企业可靠的配套供应商。

公司2016年成立耐托弗科技有限公司，专业研发生产车载干式无油杆空压机及水泥搅拌车减速机的企业。公司生产基地位于上海市奉贤区金大公路7939号，公司生产的加工设备全部进口设备。

公司凭借雄厚的科研实力及先进的生产设备，使公司在无油螺杆式空压机的制造技术又上了一个新的水平。

公司已研发成功车载干式无油螺杆压缩机性能稳定，客户反馈良好。

此项发明填补了国内在这一技术科技领域的空白，解决了干式无油螺杆压缩机完全依赖进口的弊端，公司也因此成为干式无油螺杆压缩机领域中的引领者，机械制造业领域中的实力创新企业。

产品进入市场以来，公司一贯秉承世界先进的设计理念和精湛的生产管理，并不断改进生产工艺，引用进口的有效检测设备通过了ISO-9000国际质量体系认证。我们坚信：上海耐托弗科技有限公司是您可以信赖的螺杆空压机专业制造商，将是您最值得信任的合作伙伴。



# Company Overview

Shanghai Netover Technology Co., Ltd., a subsidiary of Shanghai Tuonei Engine Manufacturing Co., Ltd., was established in 2000. The company specializes in producing internal combustion engines, components for the Shanghai 50 tractor, and automobile parts. It is also a reliable supplier for SAIC Group's related enterprises.

In 2016, Netover Technology Co., Ltd was established, specializing in the R&D and production of vehicle-mounted dry-type oil-free screw compressors and cement mixer air compressor reducers. The production base is located at No. 7939, Jinda Road, Fengxian District, Shanghai, equipped with all imported machinery.

With strong research capabilities and advanced production equipment, the company has elevated the manufacturing technology of oil-free screw compressors to new heights.

The company has successfully developed a stable-performing vehicle-mounted dry-type oil-Free screw compressor, receiving positive customer feedback.

This invention has filled a domestic gap in this technological field, reducing reliance on imported compressors and establishing the company as a leader in this sector.

Since entering the market, the company has consistently adhered to advanced global design concepts and superior production management, continuously improving production processes and utilizing effective imported testing equipment. The company has passed the ISO-9000 international quality system certification. We firmly believe that Shanghai Netover Technology Co., Ltd. is a trusted professional screw compressor manufacturer and a reliable partner for your business.

# NTF

## 干式无油螺杆压缩机



### •干式无油螺杆压缩机特点

体积小，重量轻。

运行稳，性能高，寿命长。

风量大，无振动，噪音低，操作简单。

排气洁净，无污染。

## Dry-Type Oil-Free Screw Compressor

### •Features of Dry-type Oil-Free Screw Compressor

Compact size, lightweight.

Stable operation, high performance, long service life.

Large air volume, no vibration, low noise, easy to operate.

Clean exhaust, no pollution.



### •干式无油螺杆压缩机用途

### •Applications of Dry-type Oil-Free Screw Compressor



动物饲料
Animal feed



化学
Chemical industry



食品饮料
Food and beverage

医药
Pharmaceuticals



建筑材料
Building materials



罐装存储
Packaging and storage



## •干式无油螺杆压缩机基本参数

压缩机型号：NTF-C18

最大压力：2.5Bar

流量：800-1800m³/h

重量：128kg

外形尺寸：693*393*325 (mm)

应用：散装物料输送

适合PTO驱动转数：1000-1800rpm

## •Basic Parameters of Dry-type Oil-Free Screw Compressor

Compressor Model: NTF-C18

Maximum Pressure: 2.5 Bar

Flow Rate: 800-1800m³/h

Weight: 128 kg

Dimensions: 693 x 393 x 325 mm

Application: Bulk material conveying

Suitable PTO Drive Speed: 1000-1800 rpm

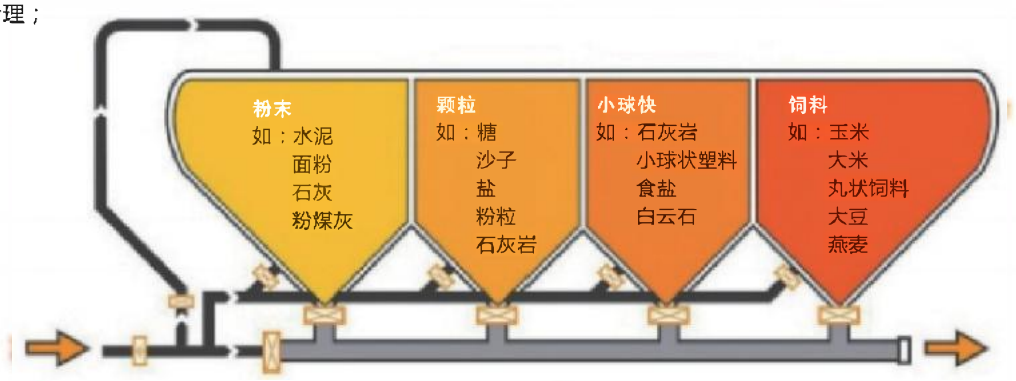
## •干式无油螺杆压缩机输送物料图

01 输送管道能够灵活布置，从而使工厂设备工艺配置合理；

02 实现散料输送，效率高，降低包装装卸运输费用；

03 系统密闭，粉尘飞扬逸出少，环境卫生条件好；

04 运动部件少，维修保养方便，易于实现自动化；



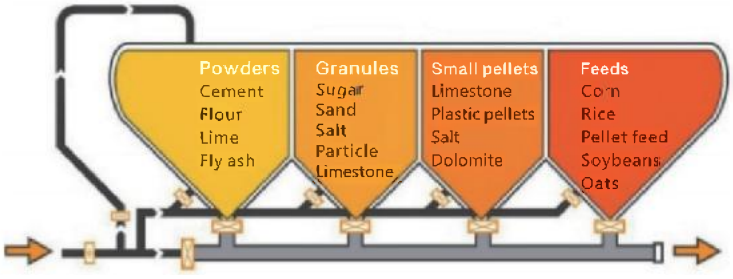

05 能够避免物料受潮、污损或混入其他的杂物，可以保证输送物料的质量

06 在输送过程中可以实现多种工艺操作，如混合、粉碎、分级、干燥、冷却、除尘、和其他化学反应；

07 可以进行有数点集中送往一处或由一点分散送往数点的远距离操作；

08 对于化学性能不稳定的物料，可以采用惰性气体输送。

## •Advantages of Material Conveying with Dry-type Oil-Free Screw Compressors




01 Flexible pipeline arrangementfor efficient plant equipmentlayout.

02 Enables efficient bulk material transport, reducing packaging and handling costs.

03 Closed system with minimal dust emissions, ensuring good hygiene conditions.

04 Fewer moving parts, easy maintenance, and automation-friendly.

05 Prevents moisture, contamination, or foreign material from mixing with conveyed materials, ensuring material quality.

06 Allows for multiple processing operations during conveyance, such as mixing, crushing, grading, drying, cooling, dust removal, and chemical reactions.

07 Can be used for long-distance transport to multiple points or from one point to multiple destinations.

08 For chemically unstable materials, inert gas conveyance can be used

NTF

# 车载干式无油螺杆机 VS 传统摆杆空压机

## 维护和保养成本对比

| | C18干式无油螺杆机（主车PTO取力） | 摆杆机式空压机（主车PTO取力） |
|---|---|---|
| 重量（安装后） | 180kg | 430kg |
| 寿命 | 8-10年 | 2-3年 |
| 保修期 | 保修2年，螺杆终身保修，保修期只换不修，可延保至5年，适当收取延保费 | 保修0.5年 |
| 维修和保养 | 基本免维护，普通保养1000元 | 每两年保养一次，费用约3000元，半年更换机油一次500元，半年更换皮带一次200元，平均每年2900元 |
| 五年周期费用 | 5000元 | 14500元 |

**五年保养费用　节省：9500元**

## PTO取力油耗成本对比

| | C18干式无油螺杆机（主车PTO取力） | 摆杆机式空压机（主车PTO取力） |
|---|---|---|
| 转速(r/min) | 750 | 1050 |
| 扭矩(NM) | 471 | 219 |
| 发动机油耗(L/H) | 9.3 | 11.6 |
| 水泥装载量(T) | 35.02 | 34.77 |
| 卸料时间(H) | 0.39 | 0.48 |
| 油耗节省（元/车） | 19.95 | 30.63 |
| 五年油耗总计 | 59850 | 91890 |

按120公里运距，每天运输两车，每年运输时间为300天

**五年主车取力油耗　节省：32040元**

NTF

# Vehicle-Mounted Dry-type Oil-Free Screw Compressor

# VS

# Traditional Swing Rod Air Compressor

## Maintenance and Operation Cost Comparison

| | C18 Dry-type Oil-Free Screw Compressor (PTO) | Swing Rod Compressor (PTO) |
|---|---|---|
| Weight (after installation) | 180 kg | 430kg |
| Lifespan | 8-10 years | 2-3 years |
| Warranty | 2 years warranty, lifetime warranty on the screw, during the warranty period, only replacement (no repairs), extendable to 5 years with an additional fee | 0.5 years |
| Maintenance & Repair | Basically maintenance-free, regular servicing costs CNY 1,000 | Servicing every two years, costing about CNY 3,000; oil change every six months costing CNY 500; belt replacement every six months costing CNY 200; average annual cost CNY 2,900 |
| Five-year total cost | CNY 5,000 | CNY 14,500 |

**5-Year Maintenance Cost Savings: CNY 9500**

## PTO Fuel Consumption Comparison

| | C18 Dry-type Oil-Free Screw Compressor (PTO) | Swing Rod Compressor (PTO) |
|---|---|---|
| Speed (r/min) | 750 | 1050 |
| Torque (NM) | 471 | 219 |
| Engine Fuel Consumption (L/H) | 9.3 | 11.6 |
| Cement Load (T) | 35.02 | 34.77 |
| Unloading Time (H) | 0.39 | 0.48 |
| Fuel Savings (CNY/vehicle) | 19.95 | 30.63 |
| 5-Year Total Fuel | 59850 | 91890 |

Based on two trips per day over 120 km, 300 transport days per year.

**Fuel Savings Over 5 Years: 32040**

# NTF

## NF系列搅拌车减速机

### ●NF系列搅拌车减速机特点



1、产品采用德国FAG调心轴承及进口油封，输出法兰轴可以实现不大于6度的摆动角，但是不能径向和轴向移位；

2、输出端为法兰输出，可以与搅拌筒体直接联接；

3、产品可以与液压马达直接联接，安装非常方便，使整机厂的产品制造非常简洁，且体积小，维护简便；

4、减速机采用行星齿轮传动，传动平稳、耐冲击。噪音低、传动效率4高，是国外工程机械中唯一选用的传动结构。

### ●NF系列搅拌车减速机用途

1、适合混凝土运输车（罐）、水泥搅拌车的传动装置，及输出端需要一定的摆动的其它场合；

2、适应条件为-30℃-45℃的野外工作条件；

3、输入转速不大于2500rpm ；

4、输出扭矩30000~80000mm适用于3m至18m的混凝土搅拌运输车；

5、可以正反向运转，负载持续率不大于40%

# Series NF Mixer Truck Reducer

## • Features of Series NF Mixer Truck Reducer

1. Equipped with FAG self-aligning bearings and German-imported oil seals. The output flange shaft can achieve a swing angle of up to 6°, but cannot have radial or axial displacement.
2. The output end is flange-connected, allowing direct attachment to the mixer drum.
3. Can be directly connected to a hydraulic motor, simplifying installation and manufacturing while remaining compact and easy to maintain.
4. Utilizes planetary gear transmission for smooth, impact-resistant operation. Low noise and high transmission efficiency make it the only transmission structure chosen for foreign engineering machinery.

## • Applications of Series NF Mixer Truck Reducer

1. Suitable for concrete transport trucks (tanks), cement mixers, and other transmission systems requiring a swing at the output end.
2. Operates efficiently in outdoor conditions between -30°C and 45°C.
3. Input speed ≤ 2500 rpm.
4. Output torque 30,000 ~ 80,000 N·m, applicable for 3m³ to 18m³ concrete mixer trucks.
5. Supports forward and reverse operation with a load duty cycle ≤ 40%.



# NTF

## ●NF系列搅拌车减速机基本参数

| 型号 | 重　量 (Kg) | 减速比 ( i ) | 最大输出扭矩 ( N·m ) | 最大安装角度 ( ° ) | 搅拌罐容积 ( m³ ) |
|---|---|---|---|---|---|
| Nf430 | 240 | 134:1 | 56000 | ±(5~6)° | 5-7 |
| NF530 | 280 | 136:1 | 62000 | ±6° | 8-10 |
| NF730 | 349 | 145:1 | 74000 | ±5° | 12-15 |
| NF830 | 345 | 148:1 | 88000 | ±5° | 16-18 |



## •Basic Parameters of Series NF Mixer Truck Reducer

| Model | Weight (Kg) | Reduction Ratio (i) | Max Output Torque (N·m) | Max Installation Angle (°) | Mixer Capacity ($m^3$) |
|---|---|---|---|---|---|
| NF430 | 240 | 134:1 | 56000 | ±(5~6)° | 5-7 |
| NF530 | 280 | 136:1 | 62000 | ±6° | 8-10 |
| NF730 | 349 | 145:1 | 74000 | ±5° | 12-15 |
| NF830 | 345 | 148:1 | 88000 | ±5° | 16-18 |



**上海耐托弗科技有限公司**
Shanghai Netover Technology Co., LTD

地址：上海奉贤区齐贤工业园区金大公路7939号
Add：No. 7939 Jinda Road, Qixian Industrial Park, Fengxian District, Shanghai

电话：李总 18918269881
Tel：Mr. Li 18918269881