
The origin of roots blower

Roots Blower It was invented in 1849 by the Englishman George Jenkins. Later, it was improved and popularized by the American Roots Brother, and it was gradually widely recognized and applied. Because the Roots Brothers applied for "Roots". Roots (Roots) trademark, so European and American countries call it "Rotary blower", which was translated into "Roots Blower" when it was introduced into China. Roots Blower is a kind of positive displacement and constant flow gas conveying equipment. At the same speed, when the pressure difference caused by system resistance increases, the internal leakage will be aggravated and the trace loss will be proportional. Therefore, when selecting high-pressure fans, roots blowers with slightly higher theoretical flow can be selected to make up for it. In addition, it has a pressure-holding characteristic, that is, its pressure comes from the reaction force of the system itself, which has a mandatory characteristic, so this characteristic is called "hard wind". Roots blower also has a disadvantage, that is, the noise is high, especially with the increase of pressure. With the continuous improvement of national noise requirements, it is also a problem that roots blower must face in its development. At present, the best way to control noise is to add a sound insulation cover to the fan. However, because of its forced air blowing characteristics, when there is no suitable product to replace it, even if this problem is not solved well, it cannot be eliminated in many places;**Multistage centrifugal fan** Or although the pressure of high-speed fan can reach the same pressure as that of Roots blower, its characteristics are "soft wind" after all, that is, the wind pressure generated by centrifugal force is not mandatory, so Roots blower is the first choice when customers need high pressure and require stable flow.

Roots blower was first produced in China in 1947 by "China Diesel Engine Co., Ltd.". Due to technical reasons at that time, it was impossible for a blower to both blow and exhaust air, so it was called "only used for blowing".**Roots blast 机**, called "Roots vacuum pump" which can only be used for ventilation. In the 1980s, in order to implement the strategy of standardization of the industry and generalization of products, the Ministry of Machinery organized the domestic manufacturers of roots blowers at that time, set up a joint design group, and re-formulated the specific structure and dimensions of roots blowers, which was called the new L series roots

blowers. However, with the mid-1990s, "Changfeng" introduced the roots blower production technology from Japan, and the domestic roots blower market gradually entered the track of diversification and fierce competition!

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