



## Industrial Strength Roots Vacuum Pump for Heavy Duty Applications in Harsh Conditions

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: ZW
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Export Standard Packaging
- Payment Terms: T/T, L/C



### Product Specification

- Flow Range: 0.22-59.21m³/min
- Material: HT250
- Models: ZW
- Vacuum Degree: -9.8kPa~-49kPa
- Highlight: strength roots vacuum pump,  
industrial roots type pump,  
industrial roots vacuum pump



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## Product Description

# Industrial-Strength Roots Vacuum Pump for Heavy-Duty Applications in Harsh Conditions

## Product Features

### Product Overview

Engineered to withstand the rugged demands of heavy industrial applications, this durable rotary lobe vacuum pump delivers reliable, high-performance vacuum output even in the most challenging operating environments. Leveraging a robust, roots-type design, this vacuum pump is built to endure intense vibration, shock loads, abrasive particulates, and other extreme conditions commonly found in mining, manufacturing, and similar industrial settings.

### Key Technical Features

#### Heavy-Duty Rotary Lobe Pump

Reinforced cast iron and steel construction with oversized bearings

Able to withstand severe shock loads, high levels of vibration, and other extreme stresses

Maintains consistent vacuum performance over extended operating periods

#### Powerful, Energy-Efficient Drive System

High-torque permanent magnet motor provides ample power for demanding applications

Advanced variable frequency drive enables precise speed control and optimization

Maximizes vacuum output while minimizing energy consumption

#### Optimized Aerodynamic Design

Computational fluid dynamics (CFD) analysis used to refine airflow paths

Improves overall efficiency and reduces pressure losses, noise, and vibration

Maintains excellent vacuum capabilities even under heavy-load conditions

#### Robust Environmental Protection

Totally enclosed, dust-tight cabinet and premium filtration systems

Prevents ingress of abrasive particulates, liquids, and other contaminants

Extends service life and uptime in rugged industrial environments

### Key Advantages

Exceptional durability and reliability for use in harsh, demanding applications

Powerful, energy-efficient vacuum performance to support high-productivity operations

Advanced aerodynamics optimize efficiency and minimize noise/vibration

Comprehensive environmental protection safeguards against machine degradation

## Scope of application

It is suitable for sewage treatment industry, petrochemical industry, food and drug industry, textile industry, metallurgy industry, cement and construction materials industry, printing and dyeing industry and other industries.

## Market Distribution

We have 42 offices throughout the country, in addition to Taiwan Province, 33 provinces in the country's administrative regions have a sound sales and service network. We can provide you with pre-sale, in-sale and after-sales service in a timely and convenient manner, understand your needs, and constantly improve the service and quality system while meeting the customized needs of customers.

## High Performance Aerodynamic Design Methodology for Wide Service Conditions

By studying the influence of impeller and volute flow on efficiency and working stability, the R&D team proposed a flow control method and a pneumatic optimization design method to improve the performance of the main engine, which greatly improved the efficiency of the main engine.

## Manufacturing & Equipment Base

has built laboratories, R&D buildings, processing workshops, etc., with internationally advanced and China leading high-precision processing equipment.



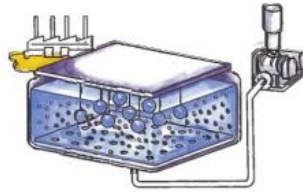
## Examples of uses



■水泡浴 Foaming in Bath



■燃烧炉  
Combustion a Fireplace



■电镀槽搅拌  
Stirring in Plated Vessel



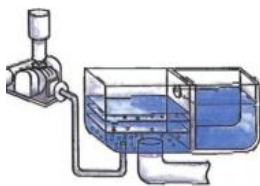
■公寓大楼的污水处理（曝气）  
Waste water Aeration in Condominiums



■工厂废水和畜产废水处理（曝气）  
Waste Water Aeration for Shop and  
Livestock Industries



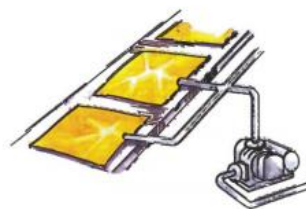
■养鱼用 Fish Care



■冲洗 Back Washing



■粉体输送（水泥、饲料、小片状物）  
Transport of Particles



■食品真空包装  
Vacuum Pack for Foods



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