



# MANGAN INDUSTRIAL GROUP

## JET FAN

### Mangan Jet Fan

Mangan as a leading Iranian Manufacturer of turbomachinery systems has extensive experience in design and manufacturing turbomachineries through the recent decades. Our Projects Department of Jet Fan, which has technicians specialized in the design of ventilation system is continuously make deeper and deeper in design modification of fans by state of the art design analysis methodologies. Using the newest aviation aerodynamic design technologies as well as numerical and experimental analysis prove the characteristics of high efficiency, wide high-efficiency range and equal efficiency in each rotational directions in reversible type with adjustable blades.

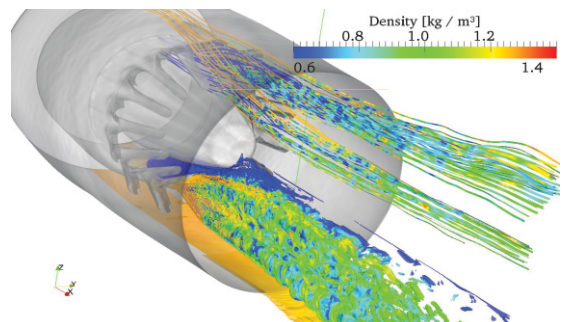
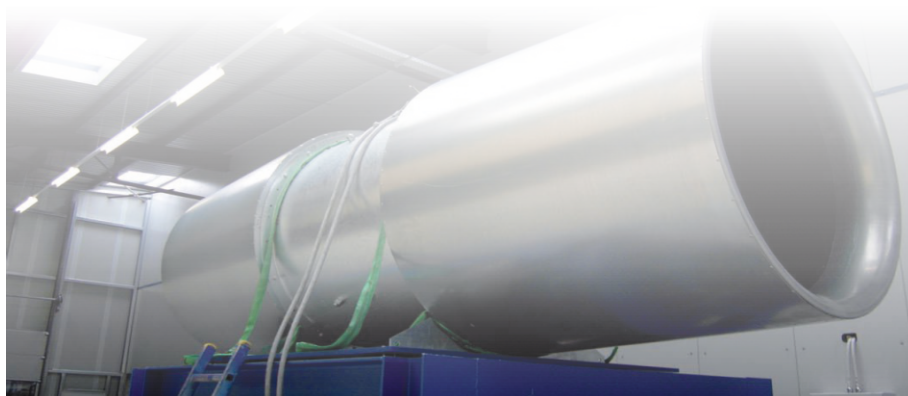
Jet fans are increasingly preferred over traditional ducted systems as a means of ventilating pollutants from large spaces such as tunnel and car parking buildings.

### Application

Road Tunnel Ventilation  
Metro Ventilation  
Subway Ventilation  
Car Park Ventilation

### Some Key Benefits:

- High aerodynamic performance blades constructed by modern manufacturing tools
- Low noise level
- High strength blades are cast in aluminum alloy
- High temperature resistant
- Adjustable blades





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### Development

Mangan R&D department combines expertise within all sectors of fan technology with highly efficient simulation tools such as CFD for Aerodynamic analysis and FEM to calculate the structure-mechanical characteristics, as well as test ducts and -chambers according to international standard ISO 5801, equipped with the latest measuring technology in order to determine the aerodynamic and aero acoustic characteristics.

### Quality

Mangan products are subject to a Quality Assurance System. All products can be bought and installed with every confidence possible. All fan products are tested in test facilities in conformity Mangan Fans stand for high operational reliability.

### Performance Characteristics

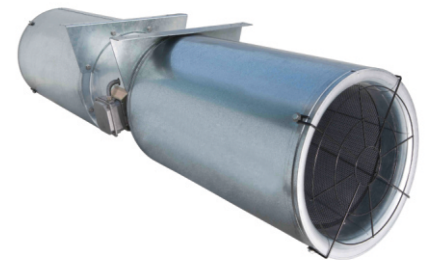
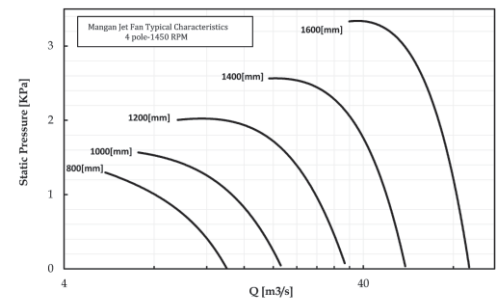
Performance Maps of Jet fan are obtained by experimental and numerical procedures.

### Control System

MANGAN's Product control system meets the requirements of specific project. CO sensors determine the ventilation rate according to demand. When used for smoke extract, the control system must be connected to fire detection system.

### Research and Development

Continuous research and development is our major consideration and our goal is to meet the requirements for ventilation. Aerodynamic and structural optimizations as well as acoustic noise reduction are continuously done for our Fans based on state of the art researches made around the world



No. 401, Hefdah Shahrivar Ave.Km 5 Old Karaj Road Tehran-Iran

Po Code: 13787-56111

Tel: +98 21 66 80 33 64

Po Box: 13865-193

Fax: +98 21 66 80 13 75



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