

Increasing Arc Series Fan Blades

High performance in tight conditions



Ideal for Virtually Any Air-Moving Application



The Answer in Air-Moving Applications

•Engineered Solutions •Competitive Pricing •Short Lead Times

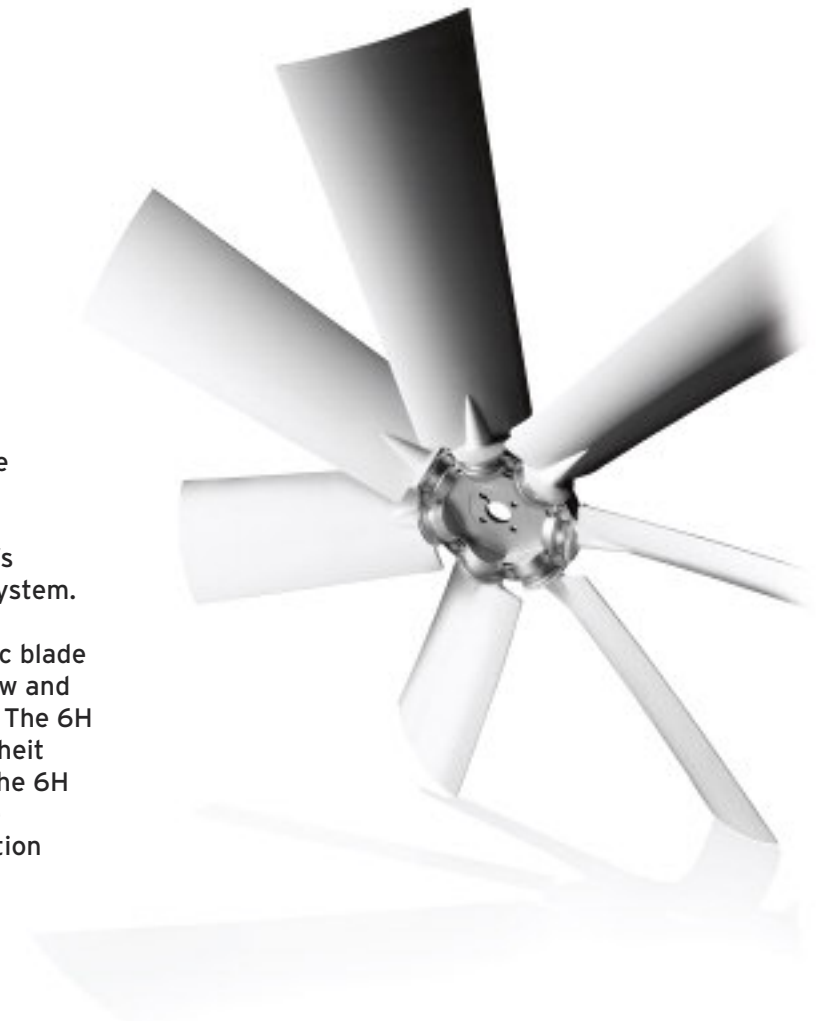
The Challenge

The Environmental Protection Agency and the European Union have issued separate, stringent Tier emission standards for off-road engines (50-750 hp). With Tier III compliance scheduled for 2008, the focus has shifted to the EPA's Tier IV requirements calling for 90 percent reduction in emissions of particulate matter and NO_x over the period of 2008-2015. These standards create more demanding cooling requirements and lower emissions while generating the necessary pressure for your applications. Compliance is mandatory, and Multi-Wing may have your answer.

One Solution

When a major manufacturer of mobile compressors prepared to take their new low-horsepower unit to market, they discovered two problems. First, the engine's excessive vibration required a large tip clearance in the shroud, reducing the fan's ability to generate the required static pressure and airflow. Second, the steel replacement fan was almost double the engine manufacturer's specified weight limit on the fan-drive system.

Multi-Wing offered our 6H Increasing Arc blade with a profile designed to produce airflow and static pressure in poor inlet conditions. The 6H profile cooled the engine to 125° Fahrenheit though the application required 120°. The 6H fan was also *46 percent lighter* than the replacement fan, generating a cool solution to a weighty problem.



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ISO 9001-2000



The Increasing Arc Blade Profiles

•H Series •Z Series

Features

- Custom designed to your specifications
- Light weight: Half the weight of steel
- Diameter range of 12-49.5"
- High pressure capability
- Hydraulic mount available

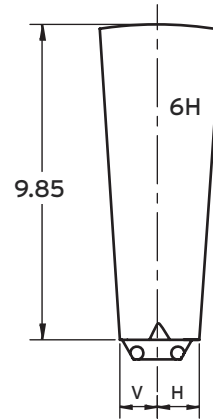
Applications

- Generators
- Construction equipment
- Cranes
- Motor coach chassis
- Turf maintenance equipment

Multi-Wing's increasing arc series blades are the answer for virtually any air-moving application. The increasing arc series is the perfect solution for applications requiring high airflow and high static pressure while operating with inefficient inlet geometry. The increasing arc blades' broad tip area improves impeller performance in engine-cooling applications with a sharp-edge inlet or large tip clearance.

THE H SERIES

No. of hub pos.	Maximum Blade Diameters
	6H
6	23.5
8	25
10	26.5
12	27.75
14	29



Leading Edge V

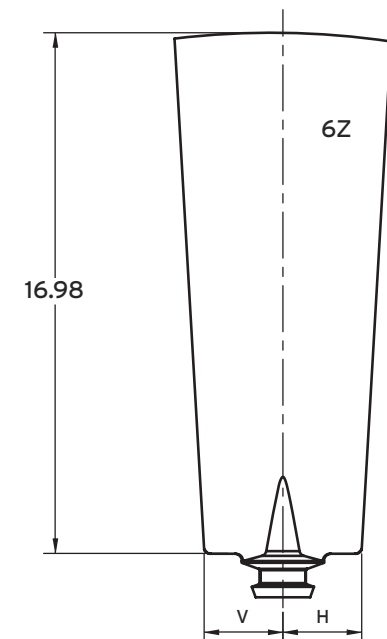
Pitch	15°	20°	25°	30°	35°	40°	45°
6H	0.12	0.20	0.32	0.43	0.51	0.67	0.79

The (V) dimension is measured at the base of the blade.

Trailing Edge H

Pitch	15°	20°	25°	30°	35°	40°	45°
6H	0.63	0.75	0.83	0.91	0.98	1.06	1.14

The (H) dimension is measured at the base of the blade.



No. of hub pos.	Maximum Blade Diameters
	6Z
5	40.25
6	40.75
7	42
8	45
9	42.5
12	45.75
16	49.5

THE Z SERIES

Leading Edge V

Pitch	20°	25°	27.5°	30°	32.5°	35°
6Z	0.24	0.47	0.59	0.71	0.83	0.95

The (V) dimension is measured at the base of the blade.

Trailing Edge H

Pitch	20°	25°	27.5°	30°	32.5°	35°
6Z	1.58	1.73	1.81	1.89	1.97	2.05

The (H) dimension is measured at the base of the blade.



The Perfect Fit in The Tightest Conditions