



DATASHEET

ENGLISH

OUR SICKLE SERIES

Our series of sickle-shaped impellers is one of the latest developments in our product range. It covers diameters from 317 mm to 2536 mm.

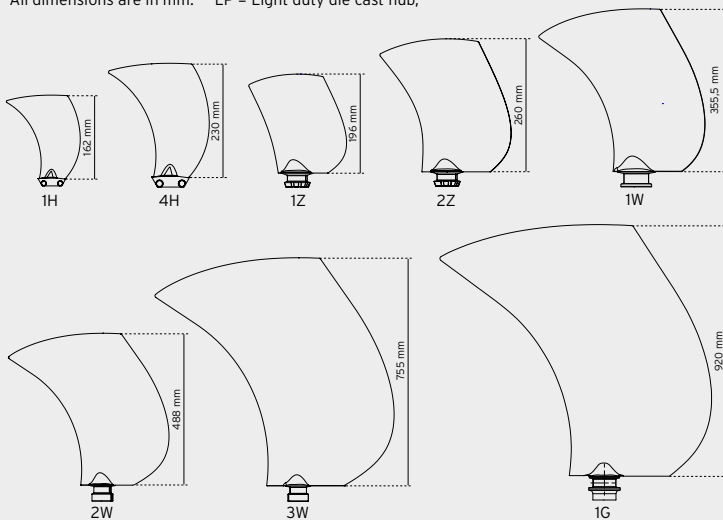
One of the advantages of the sickle-shaped blade design is the low noise capabilities. The curved leading trailing edge of the blades reduces the noise generated during blade passage. Another noise reducing design feature is the very thin trailing edge of the blades causing the wake vortex to shed more easily. The large chord length of the sickle-shaped design also means that this series is able to produce high pressure rates at lower speeds, ultimately also contributing to lower noise levels.

The sickle-shaped series is a natural choice for applications with a relative high pressure loss i.e. applications within refrigeration and the radiator/engine cooling market specifically oil coolers, compressors, generators and other off highway equipment.

Max diameter

Blade type								Pos. in hub
1H	4H	1Z	2Z	1W	2W	3W	1G	No.
							2220	3
				911				3, 4 & 5 (LP)
		537	665	985	1250	1784	2220	5
421	557	570	698	985	1250	1784	2320	6
		578	706					7
458	594	658	786	1091	1356	1890	2536	8
		592	720					9
496	632			1181	1446	1980		10
530	666	672	800					12
				1339	1604	2138		13
566	702							14
		767	895					16

All dimensions are in mm. LP = Light duty die cast hub,



Design Features

- The sickle shaped blades are additions to our existing H, Z, W and G series, and can therefore be assembled in a number of different retaining plates.
- Blade types 1H and 4H are available in 6 standard, fixed pitch angles ranging from 25° to 50°. The remaining blade types have adjustable pitch angles. For fan blades 1Z and 2Z the available pitch angles are 20°, 25°, 30°, 32.5°, 35°, 37.5°, 40°, and 45°. For fan blades 1W, 2W, 3W and 1G the pitch angle can be changed with 1 degree increment.
- 1H, 4H, 1Z and 2Z are available for both clockwise and counterclockwise rotation.
- 1W, 2W, 3W and 1G are available for counter-clockwise rotation only.
- A range of different mounting solutions are available from stock i.e. bosses with standard bore/keyway sizes and solutions incorporating taper-lock bushings.
- For information on specific fixing configurations, please look at our data-sheets covering mounting solutions or visit multi-wing.com/products.

Materials

The hub parts are as standard manufactured in a pressure die cast silumin alloy EN AC-AI Si12 Cu1 (Fe). The fan blades are available in 4 different materials as listed below. 2ZL is the only fan blade moulded in pressure die cast silumin alloy EN AC-AI Si12 Cu1 (Fe).

PPG Glass reinforced polypropylene
Temperature range: -10°C to +80°C

PAG Glass reinforced polyamide
Temperature range: -40°C to +110°C

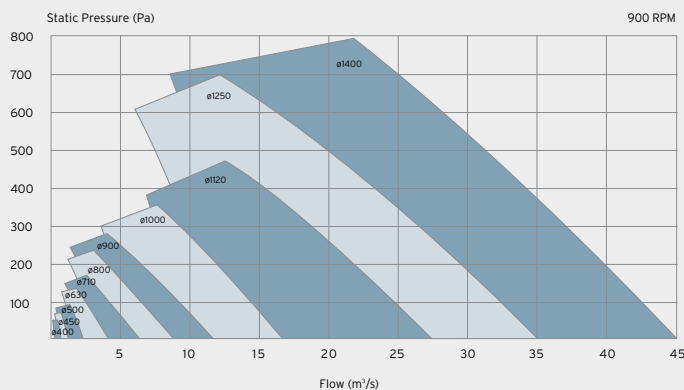
PAGAS Anti static glass reinforced polyamide
For explosion proof working conditions
Temperature range: -40°C to +110°C

AL Aluminium
Temperature range: -60°C to +245°C
Standard alloy for the fan blades is EN AC-AI Si12 Cu1 (Fe).

Please observe penalty factors for operation above listed max temperatures. For further information on high temperature operation please refer to Multi-Wing's Optimiser programme.

We reserve the right to change the materials of manufacture. The values for the mechanical properties are mean values and can be subject to variations due to the use of different suppliers.

Selection guide



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