

DATASHEET

ENGLISH

COOLING SOLUTIONS - FAN & CLUTCH

Multi-Wing designs high efficient customized fans for your engine cooling challenges such as stringent emission requirements for Tier 4 / Stage IIIB and beyond. For a fan speed modulation we offer a wide range of fan assemblies with bi-metal or electronically controlled viscous clutches to your benefit:

- Fuel saving and significant noise reduction
- Wide modulation range and low off-speed
- Faster engine warm-up
- Reduced cooler clogging
- Maintenance free and long lifespan

Bi-metal clutch features and advantages:

- High temperature sensitivity and fast response time
- Light weight
- Flexible mounting interface

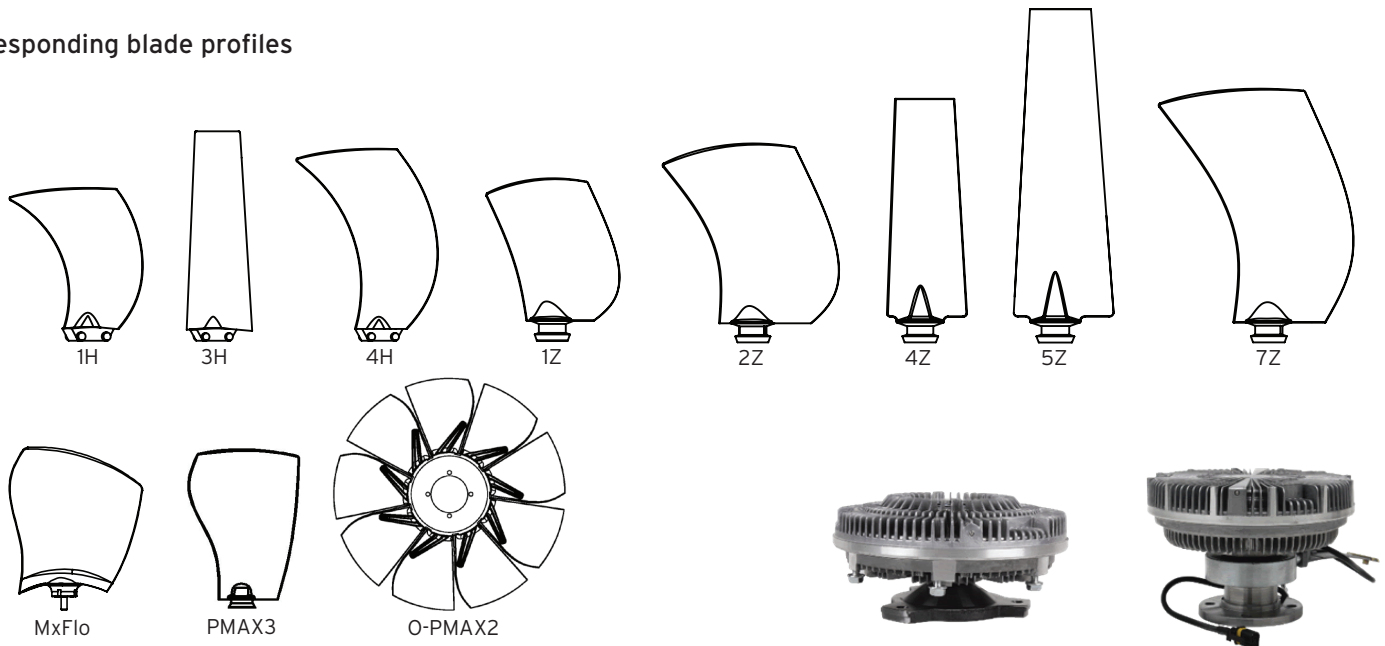
Electronically controlled clutch features and advantages:

- Wide torque range and fast response time
- Precise modulation thanks to fan speed monitoring
- Very low disengaged speed
- Flexible mounting interface

Typical fan & clutch solution

Clutch	Bi-metal Viscous Clutch				Electronic Viscous Clutch			
	BM 21	BM 39	BM 73	BM 105	EV 120	EV 150	EV 215	EV 350
Hub size	BM 21	BM 39	BM 73	BM 105	EV 120	EV 150	EV 215	EV 350
Torque	5-21 Nm	<39 Nm	35-73 Nm	60-105 Nm	<120 Nm	100-150 Nm	140-215 Nm	200-350 Nm
H10								
H12								
H14								
Z8								
Z9L								
Z12								
Z16								
W8								
W10								

Corresponding blade profiles



Clutch dimensions

Model	Bi-metal Viscous Clutch				Electronic Viscous Clutch			
	BM 21	BM 39	BM 73	BM 105	EV 120	EV 150	EV 215	EV 350
Torque range (Nm)	5 - 21	<39	35 - 73	60 - 105	<120	100 - 150	140 - 215	200 - 350
Typical fan size (mm)	<550	400 - 650	450 - 750	500 - 800	600 - 900	700 - 1000	700 - 1200	750 - 1500
Max. diameter (mm)*	160,4	162,5	205	242	221,5	237	265	275,2
Max. length (mm)*	74,1	168	211	217	154	167	178	168
Min. length (mm)*	74,1	81	95	109	125	130	152	156
Weight (kg)	1	2 +/- 0,25	3 +/- 0,5	5 +/- 1,5	5,5 +/- 0,5	8 +/- 0,5	8,5 +/- 0,5	9,2 +/- 0,5
Power supply	N/A	N/A	N/A	N/A	12V / 24V	24V	24V	24V