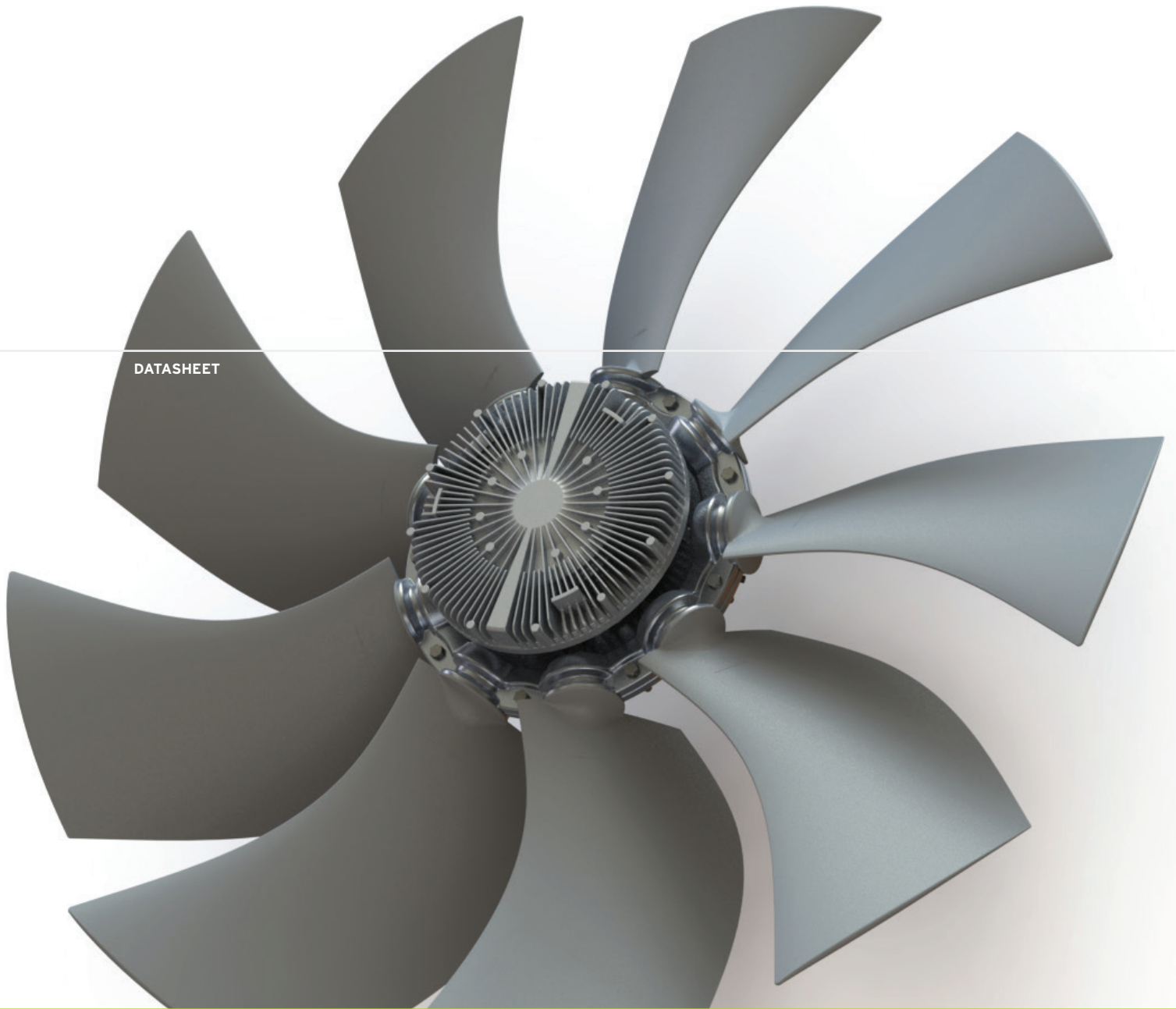


DATASHEET



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

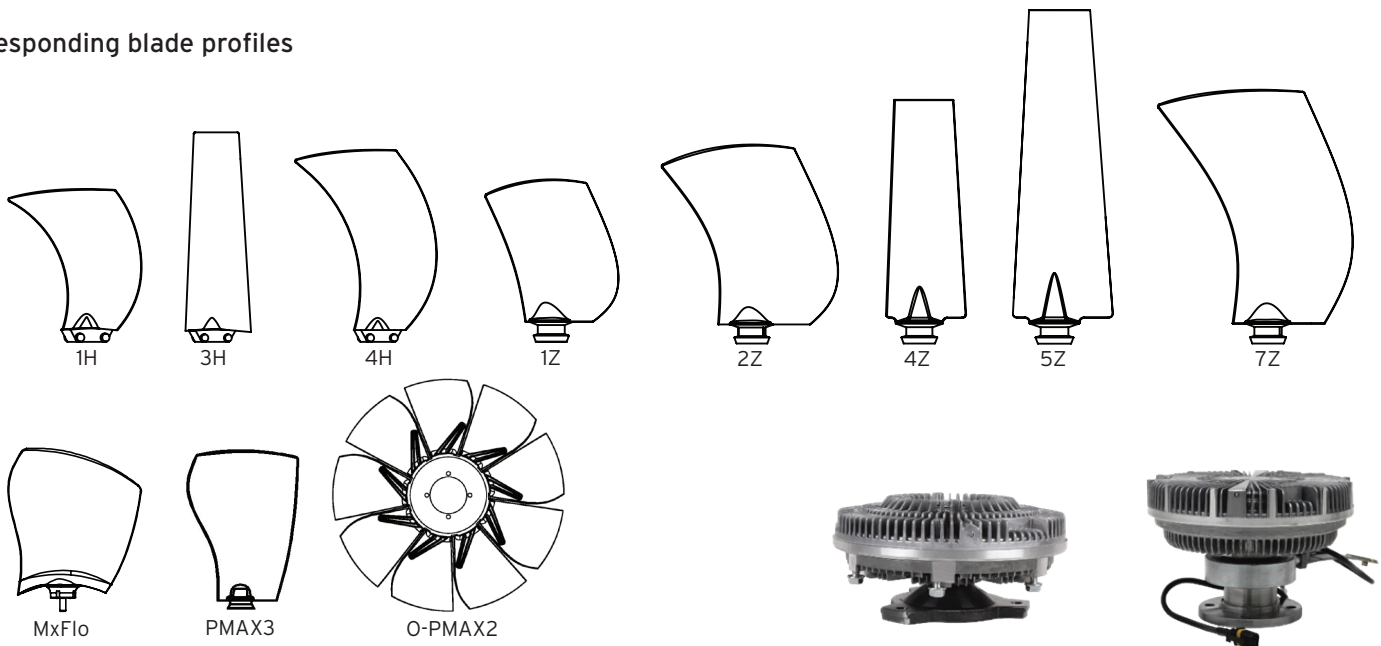
### Electronically controlled clutch features and advantages:

- 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								
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

\*Based on standard production