

Mistral II Pneumatic Tension Brakes





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Mistral II

Wichita Clutch, leading multinational designer and manufacturer of innovative power transmission products, have developed the Mistral II series of pneumatic tension brakes to meet the needs of the global paper converting industry. Building on the success of the original Mistral design widely used in corrugating, foil and film processing, and paper converting lines, the new range addresses market demand for an updated brake without compromising the industry-leading performance of the legacy model.

Extensively tested in-house, the Mistral II has been benchmarked against products from competing brands and meets or exceeds all performance criteria. The result is a compact, high-performance and versatile product capable of fulfilling tensioning needs of the latest machine designs.

FEATURES

Design

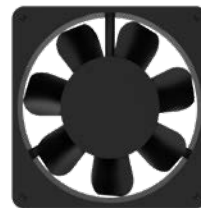
Mistral II is compact at 295 mm diameter, facilitating the pick-up of small or part-reels used in short batch runs. The new, vented housing is semi-gloss black powder coated for durability and aesthetics. Internally, an integrated high-performance, low energy cooling fan enables high heat dissipation to support increased productivity. Removing just three cap screws provides access to the internal parts. Fine tuning of torque capacity is achieved with a variable number of actuators for optimum tension control.

Mounting

Three bolts mount the brake to the arm of the mill roll stand or machine frame and a pilot location simplifies new build and retro-fit installations.

Safety

Mistral II retains the integral guard of the original, eliminating the costs associated with providing additional guarding.



Integrated Cooling

A high performance, low energy cooling fan is housed within the brake to provide high heat dissipation - a must for higher productivity through controlled tension at high web speeds.

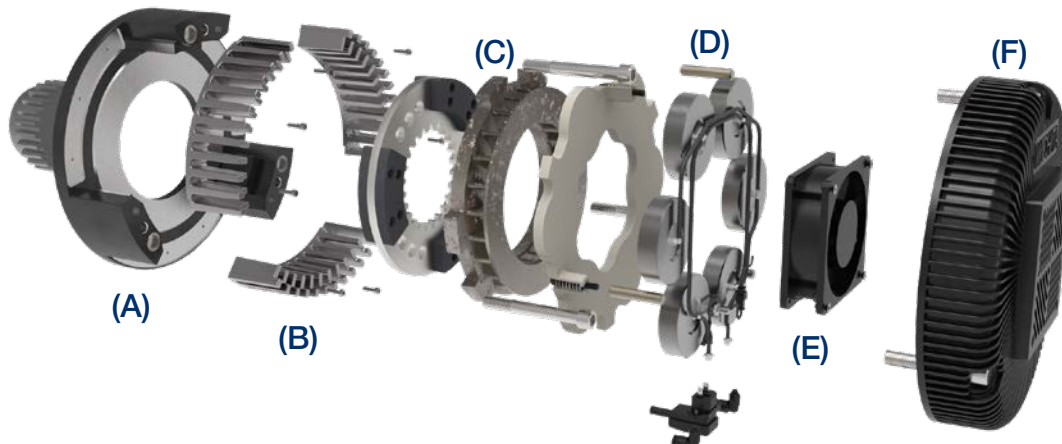
Fine Tuning

The brake may be fitted with a variable number of actuators, allowing precise selection of brake torque capacity for optimum tension control.



Front Cover Fixing

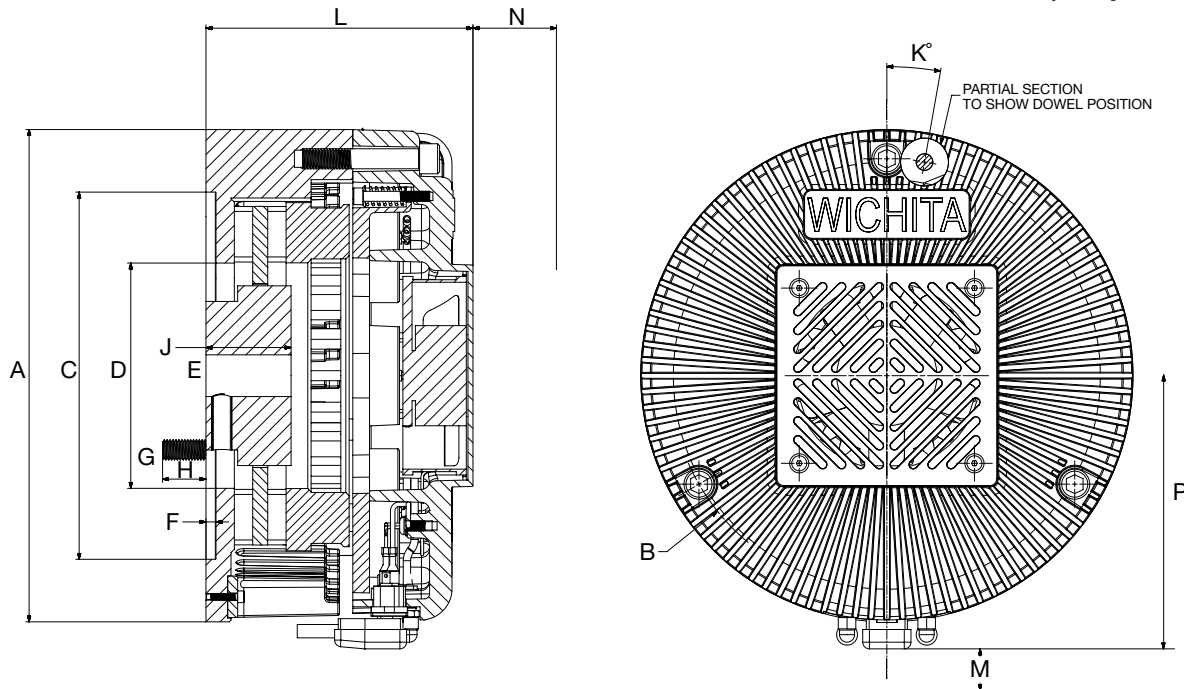
By removing just three cap screws, the front cover can be removed, allowing easy and fast access to the internal parts, which will also automatically disconnect the air and electricity supply.



Exploded view of the Mistral II, showing major components (A) ring and backplate, (B) heat sinks, (C) floating plate, (D) actuator assembly, (E) Fan and (F) cover

Dimensions (mm)

Mistral II



E – maximum permissible shaft dia.
M – space required for plug removal
N – distance required for cover removal

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P
200	295	260	220 H7	N/A	60	6	3xM12	26	51	10	160	25	50	163

Model	Fan Voltages	Fan Power	Electric	Pneumatic
200	220 VAC	16 W	Standard IEC Plug	6 mm OD push-fit tube
	110 VAC			
	24 VDC	13.2 W		

Actuator/Inlet	'AA'	'BB'
200/2	2	0
200/4	2	2
200/6	2	4

Performance

Model	Dynamic Slipping Torque Capacity			Heat Transfer Capacity			Max Speed	Inertia of Rotating Parts	Weight	
									Total Brake	Rotating Parts
	Standard Friction Material			No Fan	With Fan		rpm	kgm ²	kg	kg
	0.2 bar	5.5 bar	6 bar	kW	Cont.	30 Min On/Off				
	Nm	Nm	Nm		kW	kW				
200/2	7	198	216	1.1	2.4	2.8	2860	0.01	21.3	3.5
200/4	14	396	432						21.8	
200/6	22	594	648						22.2	

The Mistral II is highly linear in its response: The dynamic braking torque is directly proportional to the incoming air supply pressure and the quantity of actuators employed.

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