

Mistral Pneumatic Brakes



Mistral

Wichita's design and research engineers have absorbed the needs of the corrugating and paper converting industry for an improved mill-roll-stand brake to suit current and future performance requirements. Many painstaking hours of design and consultation with the market have resulted in this compact high performance brake. For modern corrugator and paper converting line speeds, Mistral brakes are ideal for existing and future machines.

Safety

Mistral has integral guarding, eliminating the cost and effort of fitting extra guarding. Another safety feature is that the pneumatic and electrical supplies are automatically disconnected when the front cover is removed.



Compact Design

Because Mistral brakes are only 295 / 410 mm diameter, not only do they enhance the aesthetics of the mill-roll-stand, they also allow the operator to pick up small part reels used in short batch runs.

Wear Indicator

Fitted with a prominently positioned visual wear indicator, there is no need to lose valuable production time or even stop the machine to check the brake for wear.



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

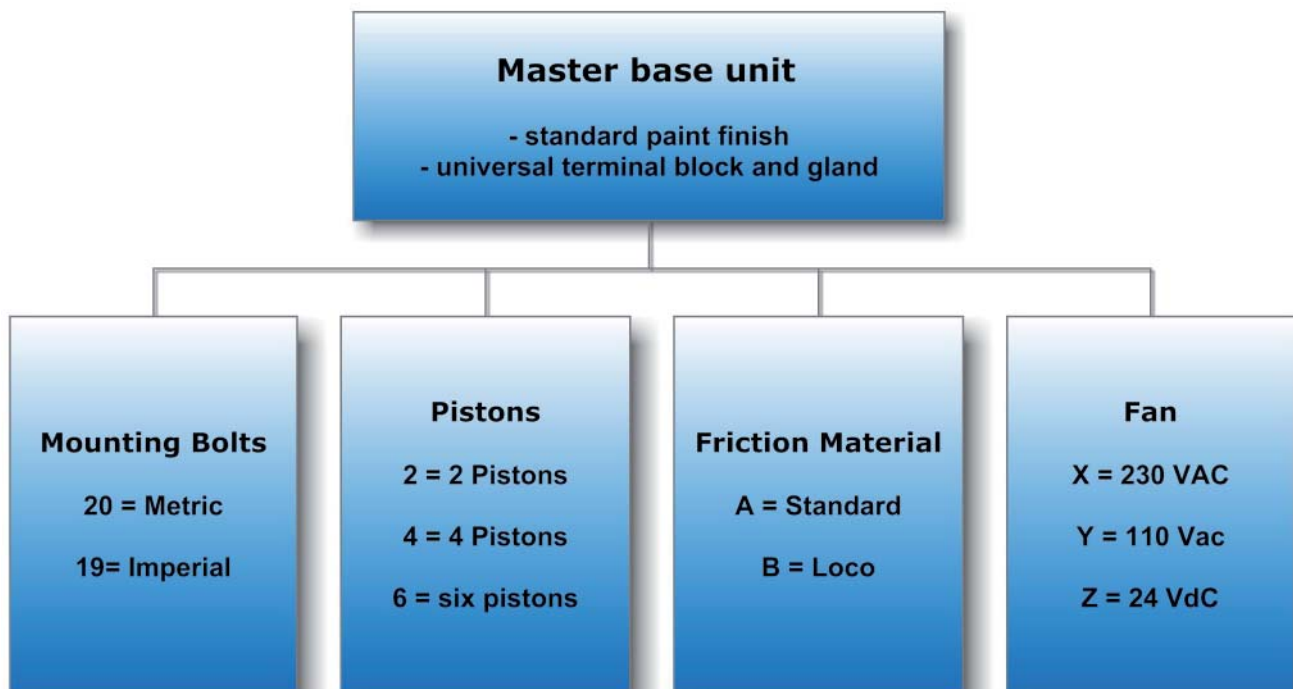
Front Cover Fixing

By removing just three cap screws, the front cover can be removed, allowing easy and fast access to the internal parts

Brake Installation

A three bolt attachment is used to fix the brake to the arm of the mill-roll-stand and an optional spigot location makes installation, to both new and existing machines, a simple operation.

Product Selector:



Example

Master base unit - Options selected: metric Bolts (20)– 2 pistons (2) - Low co (A), 110vac fan (Y)

Part No = CA71 –(20) – (2) – (A) – (Y)

From this Twiflex will be able to identify the appropriate unit and issue an assembly drawing.

Model	Dynamic Slipping Torque Capacity		Heat Transfer Capacity			Max Speed	Inertia of Rotating Parts	Weight	
			No fan	With fan				Total Brake	Rotating Parts
	@ 0.2 BAR *	@ 6 BAR		Cont	30 Min On/Off				
	[Nm]	[Nm]	[kW]	[kW]	[kW]	[min ⁻¹]	[kgm ²]	[kg]	[kg]
200/2/LC	4	200	1.1	2.4	2.8	2860	0.032	35	4.5
200/2	5	300							
200/4/LC	8 (4)	400							
200/4	10 (5)	600							
200/6/LC	12 (4)	600							
200/6	15 (5)	900							
280/3/LC	5	400	1.4	4.8	5.2	2090	0.076	50	9.4
280/3	6	600							
280/6/LC	10 (5)	800							
280/6	12 (6)	1200							
280/9/LC	15 (5)	1200							
280/9	18 (6)	1800							

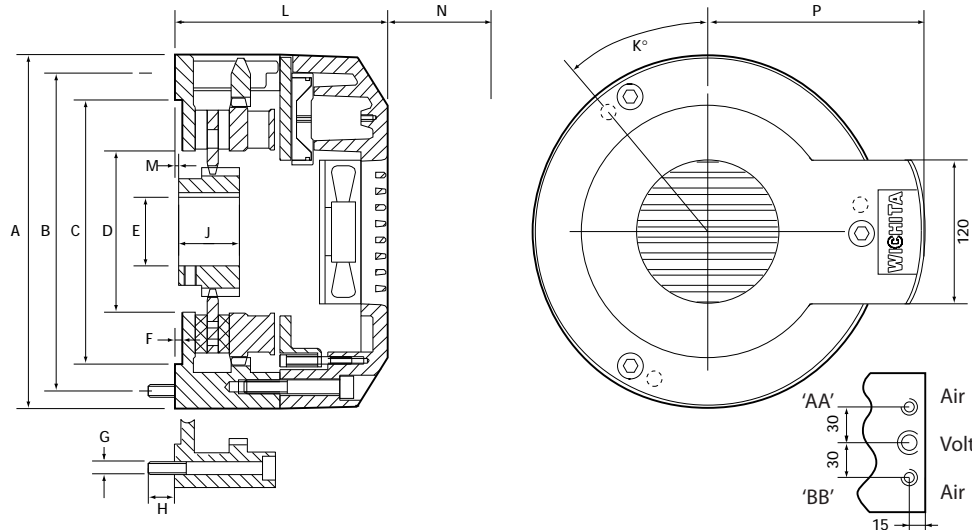
NOTES

* Torque value at 0.2 bar is for full quantity of actuators.

Torque at minimum quantity of actuators is shown in (parenthesis)

Torque at zero air pressure = zero Nm

Dimensions



Model(l)	A	B	C	D	E	F	G	H	J	K	L	M	N	P	
200	295	260	220	H7	N/A	60	6	3xM12	25	50	40	178	0	70	182.5
280	410	355	N/A	175	H7	65	0	3xM16	30	60	20	192	9.5	80	240.5

Model	Fan Voltages	Fan Power	Pneum.
200	220VAC or	20 W	1/8 BSP
	110VAC or		1/8 BSP
	24VDC		1/8 BSP
280	220VAC or	25 W	1/8 BSP
	110VAC or		1/8 BSP
	24VDC		1/8 BSP

Actuator/Inlet	Terminal Connections	
	'AA'	'BB'
200/2	2	0
200/4	2	2
200/6	2	4
280/3	3	0
280/6	3	3
280/9	3	6

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Worldwide support and distribution

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