



AirMaKKs
LiSSB
Air Cooled,
Low Inertia
Spring-Set
Brakes





WICHITA AIRMAKKS LISSB

The Wichita AirMaKKs LiSSB is designed to provide braking assistance in applications including conveyors, cranes and drawworks where they serve as a main brake that provides both parking and E-stop functions.

The AirMaKKs offers superior features for application usage, product performance, installation and serviceability, and interchangeability. These brakes offer significantly more torque (both static and dynamic) capacity over competing spring set plate brakes.

The stationary torque plates float axially on the frame and allow for lower rotating brake inertias, greater heat soak area, and accommodate electronic temperature sensing. With the rotating Friction Disc members being a splined

interface with the hub, extremely low rotating inertias are present. Competing plate brakes that utilize rotating rotors are commonly subjected to rotor/disc seizing to the hub that are a result of heat loading from 'brake drag' and excessive 'E-stops'. The AirMaKKs design minimizes this common issue.

The torque columns prevent brake torque wrap while also eliminating the need for outboard brake support requirements. Wear adjustment shims are in the outboard position, so precise wear adjustments may be easily made to prevent dramatic 'worn condition' torque drops. Axial wear indication is also easily measured and may be done with an optional electronic sensor.

FEATURES

AirMaKKs LiSSB models utilize the basic, easy-to-maintain, pin-style, modular design of the AquaMaKKs including the brake jacket housing with torque plates installed instead of water jackets.

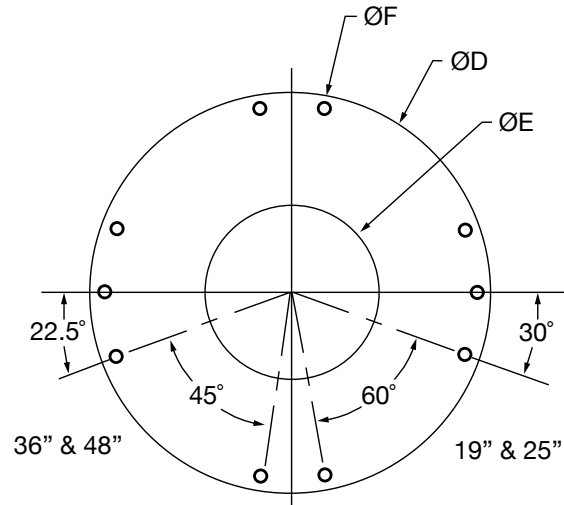
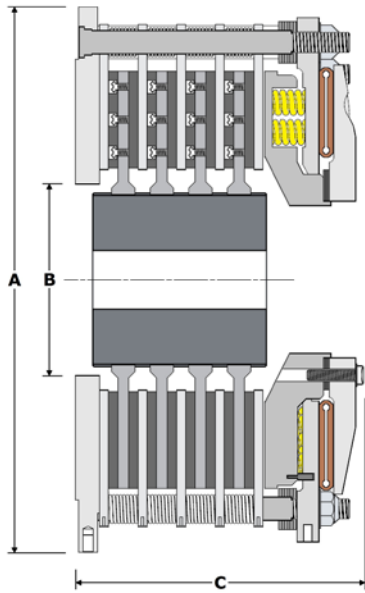
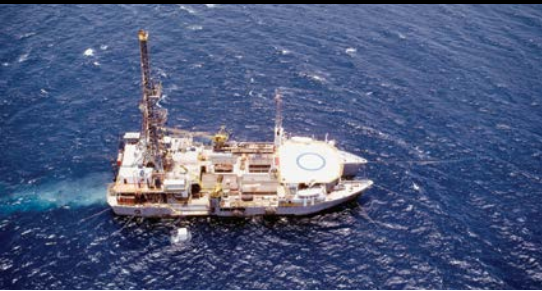
- Air cooled, spring-set air tube release high torque brake
- HiCo frictions offer extremely high torque characteristic, long friction life, and are proven
- Marine version with optional stainless steel torque plates designed to withstand the highly corrosive environment of an offshore deck area where sea spray and direct seawater splash is prevalent
- Three-part epoxy marine grade paint and engineered corrosion resistant coatings for added protection on offshore rig applications
- Pneumatic Airtube, Hydraulic or Dual Actuated
- Available in 19, 25, 36, & 48 inch sizes
- Additional sizes available upon request
- Select units interchangeable with competing pin style brakes

AVAILABLE OPTIONS:

Optional for direct sea spray applications are the use of Stainless Steel Torque Plates and unique friction material to provide a corrosion free braking system. This combination reduces static torque only slightly from the normal ductile iron configuration.

Optional Dual Actuator available. This version provides for fail-safe braking in a unique actuation circuit and a separate tensioning braking circuit that can be used when the Spring Set actuator is fully released.

Other options available to meet the customers need. Please contact a Wichita Engineer for additional information.



AirMaKKS
Mounting Hole Pattern

Dimensions

Model Size - ATD	(A) Diameter*		(B) Diameter*		(C) Length*		Torque**		
	in.	(mm)	in.	(mm)	in.	(mm)	lbf-in	lbf-ft	Nm
119					13.14	334	148,800	12,400	16,812
219	28.30	719	11	279	18.15	461	298,800	24,900	33,760
319					19.96	507	448,800	27,400	50,708
125					14.67	373	290,400	24,200	32,811
225	34.12	867	16.7	424	21.31	541	582,000	48,500	65,757
325					21.31	541	873,600	72,800	98,704
425					25.24	641	1,165,200	97,100	131,650
236					19.19	487	1,646,400	137,200	186,018
336	45.25	1,149	23.63	600	23.11	587	2,469,600	205,800	279,027
436					28.36	720	3,292,800	274,400	372,036
248					24.74	628	3,643,200	303,600	411,626
348	58.00	1,473	26	660	30.82	783	5,464,800	455,400	617,439
448					36.21	920	7,286,400	607,200	823,252

* Dimensions subject to change, contact a Wichita Clutch Engineer or Representative for validation

** Torque values based on Iron Torque plates, 95 psi balance pressure, and Hico linings.
120-130 psi full release pressure required. Optional Stainless Steel Torque plates will have slightly less torque.
Please contact a Wichita Clutch Engineer for other available options.

Model Size - ATD	Ø D		Ø E		Ø F		Hole Circle		ID Pilot		OD Pilot		# Holes Qty	PLT THK	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)		in.	(mm)
19"	28.3	719	11	279	0.656	17	22.00	559	18.25	464	23.25	591	10	1.63	41
25"	24.12	867	16.7	424	0.656	17	28.75	730	24.38	619	30.00	762	10	1.63	41
36"	44.5	1130	23.6	599	1.062	27	42.00	1067	36.38	924	44.50	1130	10	1.614	41
48"	58	1473	26	660	1.438	37	54.00	1372	26.00	660	56.50	1435	16	1.75	44

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