

THRUSTER DRUM BRAKES (IN ACCORDANCE WITH AISE)



ADE DISTRIBUTION INC.

2515 Wyatt Street
Oakville, Ontario
Canada, L6L 5L1

FTC
BRAKES

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A.I.S.E STANDARD

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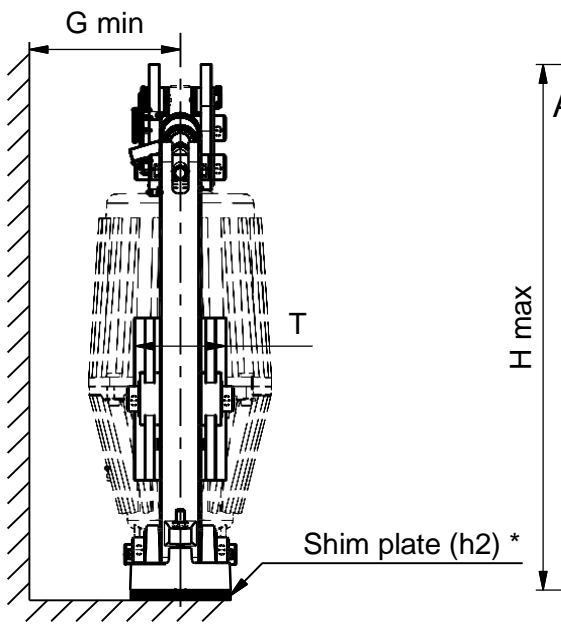
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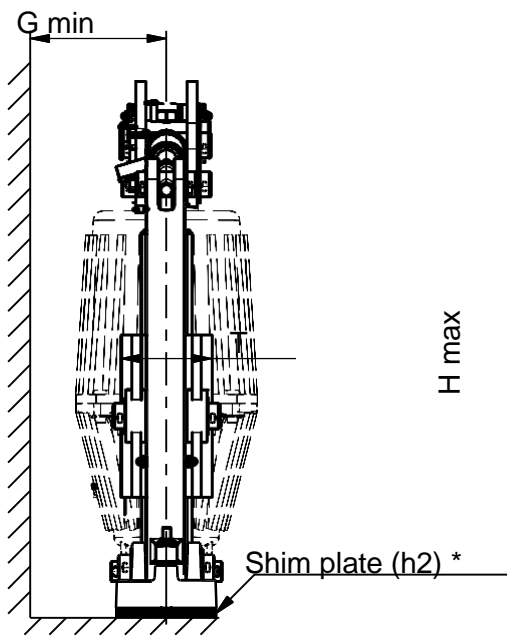
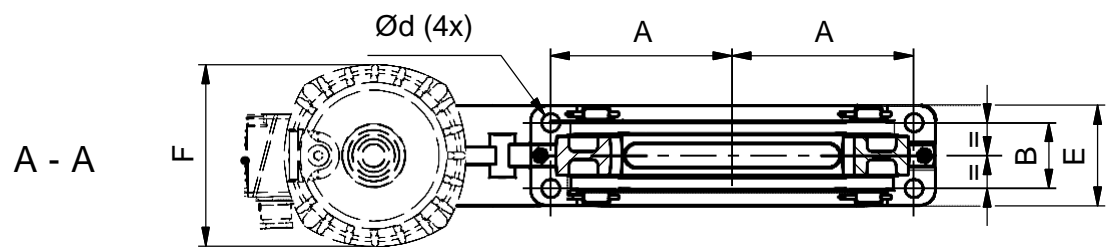
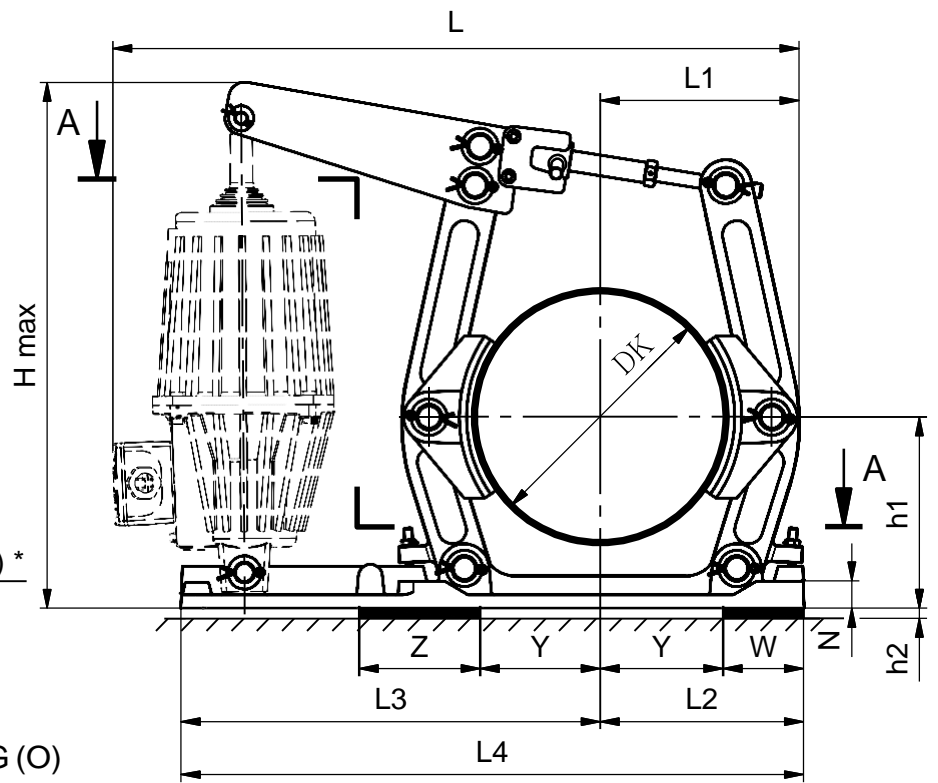
WEB: www.adedinc.com

AISE STANDARD DRUM BRAKES WITHOUT INSTALLED ELECTROHYDRAULIC THRUSTER SERIE "ESM"			"O" BRAKING MOMENT {lb ft} (μ=0,42)	"C" BRAKING MOMENT {lb ft} (μ=0,42)	BUILT-IN MEASURES																	MASS (without thruster)			
BRAKE DRUM (inch)	"	"C"			DK	h	Hmax	N	L	L1	L2	L3	L4	W	Y	Z	A	B	d	E	F	T	Gmin	"O"	"C"
	ORDERING CODE (WITHOUT EXTERNAL SPRING)	ORDERING CODE (WITH EXTERNAL SPRING)			inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
6	DK 6 - ESM 20/50-O	DK 6 - ESM 20/50-C	127	21-140	6	5,25	18,78	0,79	20,87	5,20	5,51	13,39	18,90	2,17	3,35	3,62	4,72	2,17	0,47	3,94	5,98	2,17	5,12	34,2	37,5
8	DK 8 - ESM 20/50-O	DK 8 - ESM 20/50-C	173	22-210	8	7	18,90	0,91	23,23	6,34	6,69	14,49	21,18	2,56	4,13	3,94	5,59	2,17	0,55	3,94	5,98	2,76	5,12	41,9	45,0
	DK 8 - ESM 32/50-O	DK 8 - ESM 32/50-C	262	22-292	8	7	18,90	0,91	23,23	6,34	6,69	14,49	21,18	2,56	4,13	3,94	5,59	2,17	0,55	3,94	5,98	2,76	5,12	41,9	45,0
10	DK 10 - ESM 50/50-O	DK 10 - ESM 50/50-C	558	30-577	10	8,38	20,55	1,06	27,56	7,87	7,95	16,38	24,33	3,15	4,72	4,72	7,09	2,56	0,71	3,94	7,17	3,54	5,51	56,0	62,2
13	DK 13 - ESM 50/50-O	DK 13 - ESM 50/50-C	727	77-757	13	9,88	23,62	1,10	31,50	9,61	9,45	19,29	28,74	3,35	6,10	5,71	8,66	3,15	0,71	4,33	7,17	4,33	5,51	90,8	106,7
	DK 13 - ESM 80/60-O	DK 13 - ESM 80/60-C	1151	77-1206	13	9,88	23,62	1,10	31,89	9,61	9,45	19,29	28,74	3,35	6,10	5,71	8,66	3,15	0,71	4,33	8,19	4,33	6,10	90,8	106,7
16	DK 16 - ESM 50/50-O	DK 16 - ESM 50/50-C	734	187-776	16	12,13	29,09	1,30	36,97	11,69	11,61	21,85	33,46	3,94	7,68	6,10	10,63	3,94	0,87	5,51	7,17	5,51	5,51	149,9	168,2
	DK 16 - ESM 80/60-O	DK 16 - ESM 80/60-C	1162	187-1259	16	12,13	29,09	1,30	36,97	11,69	11,61	21,85	33,46	3,94	7,68	6,10	10,63	3,94	0,87	5,51	8,19	5,51	6,10	149,9	171,1
	DK 16 - ESM 125/60-O	DK 16 - ESM 125/60-C	1859	187-1956	16	12,13	29,09	1,30	36,97	11,69	11,61	21,85	33,46	3,94	7,68	6,10	10,63	3,94	0,87	5,51	8,19	5,51	6,10	149,9	171,1
	DK 16 - ESM 250/60-O	DK 16 - ESM 250/60-C	2911	225-3057	16	12,13	29,09	1,30	36,97	11,69	11,61	21,85	33,46	3,94	7,68	6,10	10,63	3,94	0,87	5,51	9,84	5,51	6,89	158,7	187,4
19	DK 19 - ESM 80/60-O	DK 19 - ESM 80/60-C	1395	249-1460	19	13,27	31,93	1,38	42,56	14,25	14,17	26,65	40,83	4,53	9,65	7,28	12,80	5,12	0,87	7,09	8,19	7,09	6,10	253,5	264,6
	DK 19 - ESM 125/60-O	DK 19 - ESM 125/60-C	2125	249-2314	19	13,27	31,93	1,38	42,56	14,25	14,17	26,65	40,83	4,53	9,65	7,28	12,80	5,12	0,87	7,09	8,19	7,09	6,10	253,5	264,6
	DK 19 - ESM 250/60-O	DK 19 - ESM 250/60-C	3200	249-3738	19	13,27	31,93	1,38	42,56	14,25	14,17	26,65	40,83	4,53	9,65	7,28	12,80	5,12	0,87	7,09	9,84	7,09	6,89	262,3	273,4

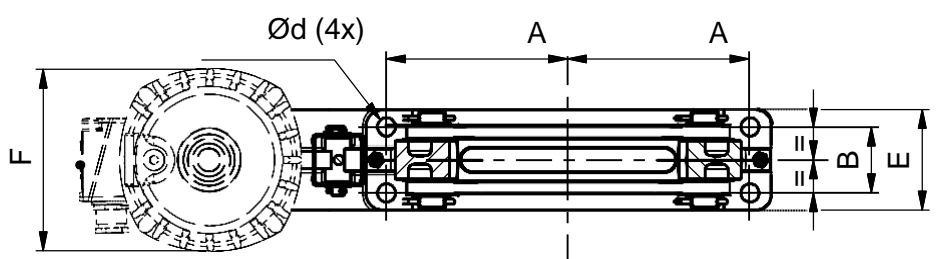
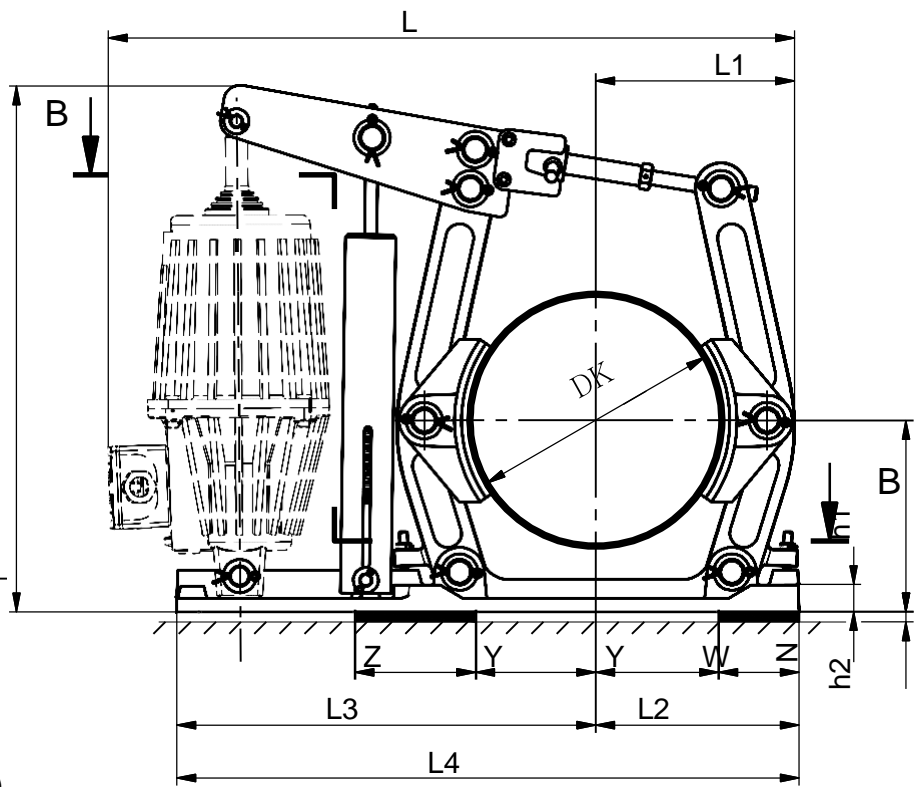
AISE STANDARD DRUM BRAKES WITHOUT INSTALLED ELECTROHYDRAULIC THRUSTER SERIE "ESM AS DIN 15430"			"O" BRAKING MOMENT {lb ft} (μ=0,42)	"C" BRAKING MOMENT {lb ft} (μ=0,42)	BUILT-IN MEASURES																	MASS (without thruster)			
BRAKE DRUM (inch)	"	"C"			DK	h	Hmax	N	L	L1	L2	L3	L4	W	Y	Z	A	B	d	E	F	T	Gmin	"O"	"C"
	ORDERING CODE (WITHOUT EXTERNAL SPRING)	ORDERING CODE (WITH EXTERNAL SPRING)			inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
6	DK 6 - ESM 300-50-O	DK 6 - ESM 300-50-C	169	21-183	6	5,25	18,78	0,79	20,87	5,20	5,51	13,39	18,90	2,17	3,35	3,62	4,72	2,17	0,47	3,94	5,98	2,17	5,12	34,2	37,5
8	DK 8 - ESM 300-50-O	DK 8 - ESM 300-50-C	262	22-292	8	7	18,90	0,91	23,23	6,34	6,69	14,49	21,18	2,56	4,13	3,94	5,59	2,17	0,55	3,94	5,98	2,76	5,12	41,9	45,0
10	DK 10 - ESM 500-60-O	DK 10 - ESM 500-60-C	558	30-577	10	8,38	20,55	1,06	27,56	7,87	7,95	16,38	24,33	3,15	4,72	4,72	7,09	2,56	0,71	3,94	7,17	3,54	5,51	56,0	62,2
13	DK 13 - ESM 500-60-O	DK 13 - ESM 500-60-C	727	77-757	13	9,88	23,62	1,10	31,50	9,61	9,45	19,29	28,74	3,35	6,10	5,71	8,66	3,15	0,71	4,33	7,17	4,33	5,51	90,8	106,7
	DK 13 - ESM 800-60-O	DK 13 - ESM 800-60-C	1151	77-1206	13	9,88	23,62	1,10	31,89	9,61	9,45	19,29	28,74	3,35	6,10	5,71	8,66	3,15	0,71	4,33	8,19	4,33	6,10	90,8	106,7
16	DK 16 - ESM 500-60-O	DK 16 - ESM 500-60-C	734	187-776	16	12,13	29,09	1,30	36,97	11,69	11,61	21,85	33,46	3,94	7,68	6,10	10,63	3,94	0,87	5,51	7,17	5,51	5,51	149,9	168,2
	DK 16 - ESM 800-60-O	DK 16 - ESM 800-60-C	1162	187-1259	16	12,13	29,09	1,30	36,97	11,69	11,61	21,85	33,46	3,94	7,68	6,10	10,63	3,94	0,87	5,51	8,19	5,51	6,10	149,9	171,1
	DK 16 - ESM 1250-60-O	DK 16 - ESM 1250-60-C	1859	187-1956	16	12,13	29,09	1,30	36,97	11,69	11,61	21,85	33,46	3,94	7,68	6,10	10,63	3,94	0,87	5,51	8,19	5,51	6,10	149,9	171,1
	DK 16 - ESM 2000-60-O	DK 16 - ESM 2000-60-C	2911	225-3057	16	12,13	29,09	1,30	36,97	11,69	11,61	21,85	33,46	3,94	7,68	6,10	10,63	3,94	0,87	5,51	9,84	5,51	6,89	158,7	187,4
19	DK 19 - ESM 800-60-O	DK 19 - ESM 800-60-C	1395	249-1460	19	13,27	31,93	1,38	42,56	14,25	14,17	26,65	40,83	4,53	9,65	7,28	12,80	5,12	0,87	7,09	8,19	7,09	6,10	253,5	264,6
	DK 19 - ESM 1250-60-O	DK 19 - ESM 1250-60-C	2125	249-2314	19	13,27	31,93	1,38	42,56	14,25	14,17	26,65	40,83	4,53	9,65	7,28	12,80	5,12	0,87	7,09	8,19	7,09	6,10	253,5	264,6
	DK 19 - ESM 2000-60-O	DK 19 - ESM 2000-60-C	3200	249-3738	19	13,27	31,93	1,38	42,56	14,25	14,17	26,65	40,83	4,53	9,65	7,28	12,80	5,12	0,87	7,09	9,84	7,09	6,89	262,3	273,4



BRAKE MECHANISM
WITHOUT EXTERNAL SPRING (O)



BRAKE MECHANISM
WITH EXTERNAL SPRING (C)



ADE DISTRIBUTION INC.



B - B

The shoes brake mechanisms from FLUIDOTEHNIC are designed for use with ESM series electrohydraulic thrusters in accordance to A.I.S.E. standard. Should you require other configurations we can supply the mechanism to suit other thruster designs such as: EB, EB-DIN 15430, BL, EHT, SZH, TGM, REH, EMG-Ed, or DIN 15435.

See “ELECTROHYDRAULIC THRUSTERS” Catalogue for more options.

Two Basic types of mechanisms:

- **Type “O”**, Brake mechanism requires an electrohydraulic thruster with an internal spring. In these versions the torque is not adjustable, and is always the maximum brake torque relative to the installed spring.

- **Type “C”**, Brake mechanism is with external spring. In this case it is necessary to install an electrohydraulic thruster without a n internal spring. The brake torque is therefore adjustable and can be read on the torque label affixed to the spring tube.

Brake mechanisms can be delivered with or without electrohydraulic thrusters installed, as per the customer requirements.

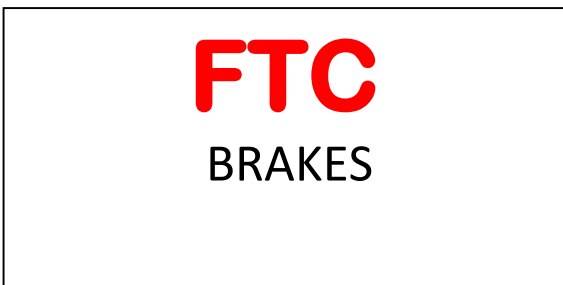
All components are of a robust construction, made of steel castings, and designed for the hardest environmental conditions as seen in, Mines, Steel Mills, Cement Plants... Brake shoes are made of aluminum alloy, and have asbestos free linings, which have a theoretical coefficient of friction of, $\mu=0.42$. Other friction materials are available upon request. The assembly comes standard with a Self adjuster which maintains the clearance between the brake shoe lining and drum automatically, during operation. This means that the braking force is always in the optimal operating range and does not need any special maintenance or daily adjustments. It is important to emphasize that all the pins are stainless steel, and are guided by Teflon bushings, to accommodate the harshest conditions.

Examples when, “ORDERING BRAKE MECHANISMS”

- Mechanism for: 13inch drum, thruster ESM 50/50, without external spring, without electrohydraulic thruster is **DK13-ESM 50/50-0**

- Mechanism for: 16 inch drum, thruster ESM 1250-60 as DIN 15430, with external spring, without electrohy-draulic thruster is **DK16-ESM 1250-60-C**

- Mechanism for: 10 inch drum, thruster ESM 50/50, without external spring, with electrohydraulic thruster ESM 50/50 C50 R S Z 230/460V 60Hz is **DK10-ESM 50/50-0/ESM 50/50 C50 R S Z 230/460V 60Hz**



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