



SAB DRUM BRAKES ARE ASSEMBLED AND SUPPORTED IN NORTH AMERICA

Series SAB Drum Brakes are assembled and supported by Wichita Clutch, in Wichita Falls. Texas in the United States.

Series SAB Drum Brakes with Thrusters

FOR STEEL MILL CRANES

A leading steel producer needed a robust replacement braking solution for the overhead cranes at its round and round-corner square bar mill in the Southeastern U.S. The mill was experiencing repeated problems with the existing drum brakes and thrusters installed on multiple cranes throughout the mill.

The thruster seals were leaking because they couldn't withstand the harsh mill environment. The brakes often failed, causing an excessive amount of unplanned service delays and production stoppages. The most trouble was experienced on the cranes near the furnace where the thrusters needed to be replaced after less than a year due to heat and contamination damage.

The brakes, installed between the hoist's drive motor and gearbox, or directly on the hoist drum, function as service (holding) brakes. Each crane utilizes two to four thrusters. Rectifiers control the crane's electric motors. However, when the crane is stopped, it actually moves back and forth slightly as the rectifiers try to correct the crane's position. The drum brakes engage to securely hold the crane safely and precisely in a single position.

After visiting the mill with a distribution partner, our engineers worked closely with the mill's crane maintenance engineering team. After successful in-plant prototype testing, we were initially awarded an order to replace a majority of the competitor brakes. Recently, the distributor was directed to supply SAB units for all future brake replacements.

The Series SAB drum brakes with electrohydraulic thrusters supplied follow the AISE N.11 normative and are sized for drum diameters between 6" and 30". All units featured our exclusive "Steel Makers Option" which is designed to withstand high temperature and dusty mill environments.

WICHITA CLUTCH

1-860-238-4783





SAB Brakes Product Highlights

- Drum brakes with electrohydraulic thrusters
- Safety and Service brakes
- Maintenance-free, self-lubricated bushes
- · Auto-aligning brake shoe device
- Galvanized steel spindles and hinges
- Automatic wear compensation
- SDB units meet DIN 15435 & DIN 15430 norms
- SAB units meet AISE N.11 63.120

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FEATURES AND BENEFITS

SAB Thruster Drum Brakes offer many technical advantages and options:

- an automatic system of lining wear compensation
- a torque scale for easy adjustment
- an opening proving switch (option BRLS)
- a brake engaged proving swltch (option BELS)

- a manual release lever (option HRL)
- full lining wear indicators (option LWI)
- special paint or protection level (options SPA & SPR)

TS thrusters offer also a large range of options to meet requirements of every applications.

SPA SPECIAL PAINT **SPR** PROTECTION LEVEL C4 options

SW-SV-AV-DV

Thruster options

Steel Works - Special Voltage Thruster delay: Ascent Valve or Descent Valve



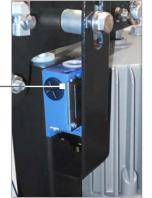
HRL HAND RELEASE LEVER (standard)

AUTOMATIC LINING WEAR COMPENSATION SYSTEM (standard)



LWI FULL LINING WEAR INDICATORS option

BRLS/BELS OPENING SWITCH option





TORQUE SCALE (standard)

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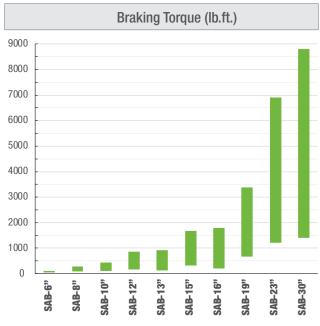
SAB THRUSTER DRUM BRAKES

SAB Thruster Drum Brakes are associated with different thrusters and springs for a large range of braking forces.

Protected against adverse environmental effects in their respective applications, they have precision tuned safety functions.

They permit easy adjustment of the braking torque with an accurate scale control following the demands of the AISE No. 11.





Standard voltage	230 / 460VAC 60Hz
Weight	From 70 to 980 lb
HxWxD	16.5 x 17 x 6.3 inch to 44.5 x 68 x 9.45 inch
Nominal Braking Torque	55 to 8800 lb.ft
Drums	6 to 30 inch

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SAB DRUM BRAKES

TECHNICAL DATA AND DIMENSIONS

According to standard **AISE N. 11 - 63.120** • Brake shoe auto-aligning device

- Spring application braking
- Thruster release
- Standard voltage 230/460 VAC 60Hz
- Paint color RAL7021
- Protection level C4M
- Automatic lining wear compensation

- Scale for torque adjustment
- Brake lever synchronization
- Aluminium shoes with non asbestos organic linings
- Self lubricated bushings at main hinge points
- Galvanized steel spindles and hinges

Operating conditions

• Ambient temperature : -20°C to 50°C • Relative humidity no higher than 90%

• IP rating: IP65



OPTIONS:

AV - DV	V - DV Thruster delay: Ascent Valve or Descent Valve					
BELS	S Brake Engaging Limit Switch					
BRLS Brake Release Limit Switch						
HRL Hand release lever with or without stop						
HRLM Switch for hand release monitoring						
LWI	Full lining wear indicators					
SPA Paint according to Customer Specification						
SV	Special Voltage					

THRUSTER TECHNICAL DATA:

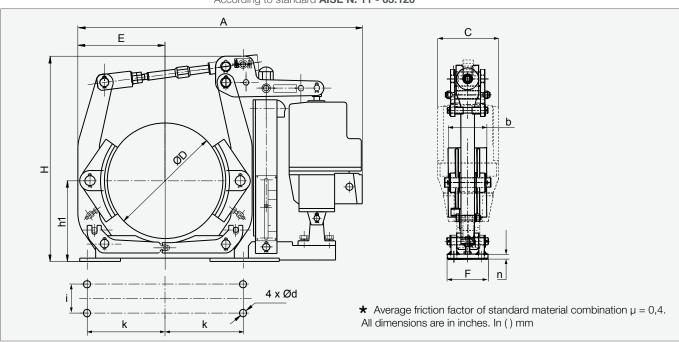
Thruster type	Power (VV)	Current at 400 V (A)	Weight (kg)			
TS 230/5	200	0.5	14			
TS 300/5	200	0.5	14			
TS 500/6	210	0.5	23			
TS 800/6	330	1.2	24			
TS 1210/6	330	1.2	39			
TS 2010/6	450	1.3	39			
TS 3010/6	550	1.4	40			

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

SAB DRUM BRAKES

TECHNICAL DATA AND DIMENSIONS

According to standard AISE N. 11 - 63.120



Brake	Thruster TS	M _{BR MAX} (lb-ft) ★	Α	b	С	D	d	Е	F	н	h1	i	k	n	Weight (lb)
type SAB – 6"	230/5	55-110	22.4	1.65	6.3	6 (152)	3/8 (9.5)	5.5	7.25	16.5	4.75 (120)	3 (76)	4 (102)	0.38	70
SAB - 8"	230/5 300/5	85-190 140-275	25.16	3.00	6.3	8 (203)	0.69 (17)	6.73	7.28	19.29	7.0 (178)	5.76 (146)	3.25 (83)	0.39	77 84
SAB - 10"	230/5 300/5	110-220 140-280	28.46	3.54	6.3	10 (254)	0.69 (17)	8.07	7.87	21.65	8.38 (213)	6.26 (160	4.0 (102)	0.47	100 106
	500/6	220-440	29.92		7.48	(254)	(17)				(213)	(100	(102)		116
SAB - 12"	300/5 500/6	170-345 270-540	32.44	5.51	6.3	12	0.81 (21)	10.40	11.00	23.86	9.88 (251)	9.0 (228)	5.75 (146)	0.55	155 164
	800/6	430-855	33.6		7.48	(305)									176
SAB - 13"	300/5 500/6	180-375 295-590	32.44	5.51	6.3	13	0.81 (21)	10.40	11.00	23.86	9.88 (251)	9.0 (228)	5.75 (146)	0.55	160 164
	800/6	460-930	33.6		7.48	(330)									176
SAB - 15"	500/6 800/6	330-665 515-1030	40.20	6.49	7.48	15 - (381)	1.06 (27)	12.20	13.38	28.15	12.13 10.76 (308) (273)		7.5 (191)	0.55	300 308
0,12 10	1210/6	840-1675	39.76	- 0.10	9.45					30.51		(273)			335
SAB - 16"	500/6 800/6	355-710 550-1110	40.20	6.49	7.48	16 (406)	1.06 (27)	12.20	13.38	28.15	12.13 (308)	10.76 (273)	7.5 (191)	0.55	304 308
	1210/6 800/6	900-1800 665-1330	39.76		9.45 7.48	(400)	(21)			30.51	(000)	(210)	(131)		335 445
SAB - 19"	1210/6 2010/6	1055-2110 1700-3390	46.46	8.50	9.45	19 (483)	1.06 (27)	14.64	15.35	32.95	13.25 (337)	13 (330)	9.25 (235)	0.79	455 455
	1210/6	1220-2440	53.15	10.98	9.45	23 (584)	1.31 (33)	17.60	18.90	41.0	15.88 (403)	16 (406)	11.75 (298)	0.79	695
SAB - 23"	2010/6 3010/6	1900-3870 2850-5760													695 705
	3010/12 1210/6	3450-6900 1400-2800	70.00	14.01	9.45	30 (762)	1.56 (40)	21.57	22.83	53.34	20.75 (527)	19 (482)	15.0 (381)	1.06	950
SAB - 30"	2010/6	2360-4720													950
	3010/6 3010/12	3650-7370 4400-8800													980

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APPLICATION DATA FORM

Email or Fax to: Wichita Clutch | Customer Service and Engineering

Email: wichita.info@wichitaclutch.com

Phone: +1-940-723-3400 Fax: +1-940-723-3436

CONTACT INFORMATION

Nam	ame:	Date:
Ema	mail:	Phone:
Con	ompany:	Location:
ENC	NQUIRY INFORMATION	
Mot	otor Brakes:	
	Motor Power:	
	Motor Speed:	
	Shaft Diameter:	
Loa	pad Brakes:	
	Torque Range:	
	Shaft Speed:	
	Shaft Diameter:	
	Rotational Inertia to stop:	
	dditional Application Notes: form us of any details of brake requirements; dynamic bra	uking, backlash, lifetime, response time, etc.

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Wichita Clutch Facilities

North America

USA

2800 Fisher Road Wichita Falls, TX 76302 - USA 940-723-3400

Pneumatic Clutches and Brakes

Europe

United Kingdom

Ampthill Road Bedford MK42 9RD - England +44 (0) 1234 350311 Pneumatic Clutches

and Brakes

Asia Pacific

Australia

+61 2 9894 0133

China

+86 21 5169-9255

Hong Kong +852 2615 9313

Singapore

+65 6487 4464

Taiwan

+886 2 2577 8156

Thailand

+66 2322 5527



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