

WEB CONTROL PRODUCTS

TECHNICAL DATA SHEET

ADVANCED SERIES Straight & Tapered-Bore Tension Brakes S450A, S600A, S800A, S1000A, T450A, T600A, T800A, T1000A

nexen.

Nexen's new advanced series tension brakes provide dependable, long-lasting torque for your unwind applications. The high thermal output and torque ratings of the advanced series make these units ideal for demanding tension operations. Because every application is different, we offer a full range of sizes to meet all your unique specification requirements.

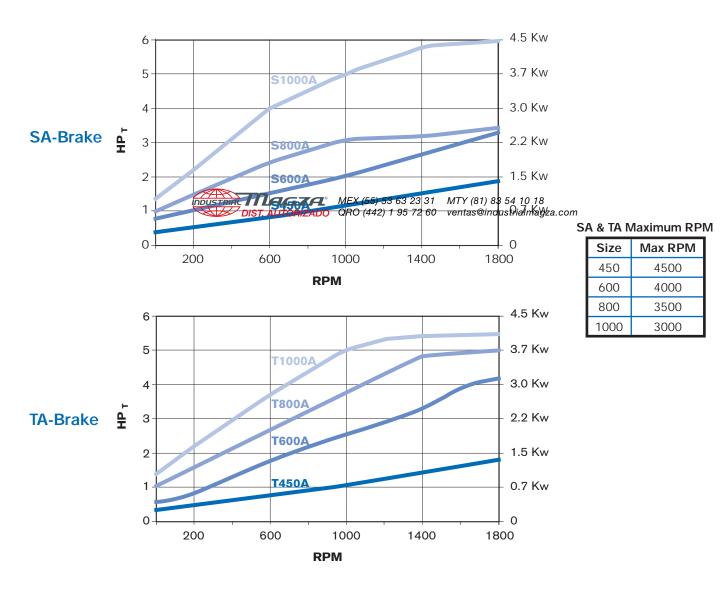
This advanced line offers both straight bore hubs or tapered bores for QD[®] mounting. Both models are available with Standard, Low Coefficient (LoCo) or Ultra LoCo friction facings to meet your torque requirements. The facings are split for fast and easy facing replacement, limiting downtime.



>>>

- High Dynamic Torque (at 5.5 bar [80 psi] air pressure)
 42.3 331.3 Nm [374 2932 in-lb] with Standard Facings
 25.3 198.9 Nm [224 1760 in-lb] with LoCo Facings
- High Thermal Capacity SA-Brakes: 1.42 – 4.44 Kw [1.90 – 5.96 HP_T] at 1800 rpm TA-Brakes: 1.28 – 4.12 Kw [1.73 – 5.53 HP_T] at 1800 rpm
- Straight bore hub in both inch and metric sizes for easy mounting (SA only) Bore Range: 25 – 75 mm [1.125 – 2.938 in]
- Tapered-bore hub uses QD bushings for a variety of shaft diameters (TA only)
- Variable mounting configurations
 Flange mounting or shaft mounting with a torque pin (SA only)
 Shaft mounting with a torque pin (TA only)
- Split facing for easy replacement and low maintenance costs
- High temperature o-rings
- High temperature bearing
- Brake safety guard for operator safety

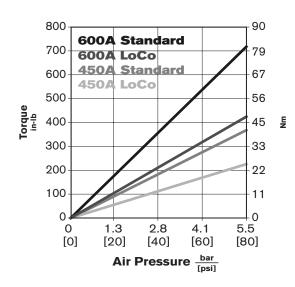
THERMAL CAPACITY

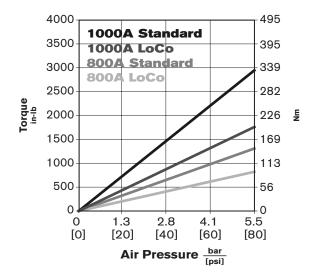


INDUSTRIAL MAGZA MEX (55) 53 63 23 31 MTY (81) 83 54 10 18

DIST. AUTORIZADO QRO (442) 1 95 72 60 ventas@industrialmagza.com

SA and TA Dynamic Brake Torque vs. Air Pressure

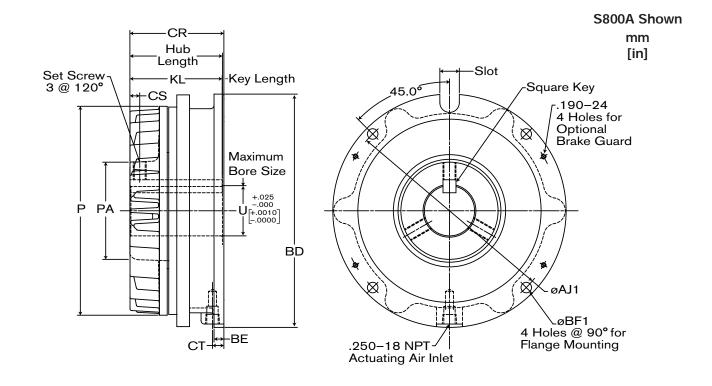




Ultra LoCo (low torque) friction facings are available on request.

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Advanced Series Straight-Bore Brake (SA), Approximate Dimensions



Model	øAJ1*	BD	BE	øBF1	CR	cs	СТ	Key (SQ.)	KL	Р	PA	Set Screws	U	Slot		Hub
woder	ØAJT	ЪЛ												WD	DP	Length
S450A	134.87 [5.310]		6.3 [0.25]	7.14 [0.281]	63.8 [2.51]	4.6 [0.18]	11.2 [0.44]	6.35 [0.250]	22.35 [0.88]	115.8 [4.56]	47.8 [1.88]	.250–20	28.575 [1.1250]	9.6 [0.38]	16.5 [0.65]	63.5 [2.50]
S600A	165.10 [6.500]		9.7 [0.38]	9.12 [0.359]	81.2 [3.19]	6.4 [0.25]	10.4 [0.41]	7.963 [0.312]	78.7 [3.10]	153.9 [6.06]	65.57 [2.58]	.375–16	34.925 [1.3750]	15.93 [0.63]	16.8 [0.66]	79.4 [3.13]
S800A	212.9 [8.38]	228.6 [9.00]	9.7 [0.38]	10.31 [0.406]	92.1 [3.63]	9.7 [0.38]	11.2 [0.44]	12.73 [0.500]	90.5 [3.56]	204.7 [8.06]	95.2 [3.75]	.500	49.212 [1.9375]	19.10 [0.75]	17.5 [0.69]	90.7 [3.57]
S1000A	277.8 [10.94]	301.8 [11.88]	12.7 [0.50]	13.49 [0.531]	103.1 [4.06]	9.7 [0.38]	18.3 [0.72]	19.08 [0.750]	100.0 [3.94]	255.5 [10.06]	127.0 [5.00]	.500	74.612 [2.9375]	22.3 [0.88]	23.1 [0.91]	100.8 [3.97]

* Four additional holes @ 90° apart and 15° from the centerline are present on the S1000A models.

Product Numbers

Model	Bore**	P/N	Bore	P/N
S450A, Std.	1.125 in	827818	25 mm	827820
S450A, LoCo	1.123 111	827819	25 11111	827821
S600A, Std.	1.375 in	827904	35 mm	827907
S600A, LoCo	1.375 11	827905	35 11111	827908
S800A, Std.	1.938 in	828006	EQ mm	828008
S800A, LoCo	1.938 11	828007	50 mm	828023
S1000A, Std.	2.020 in	828108	7E mm	828121
S1000A, LoCo	2.938 in	828109	75 mm	828122

SA-Brake Accessories

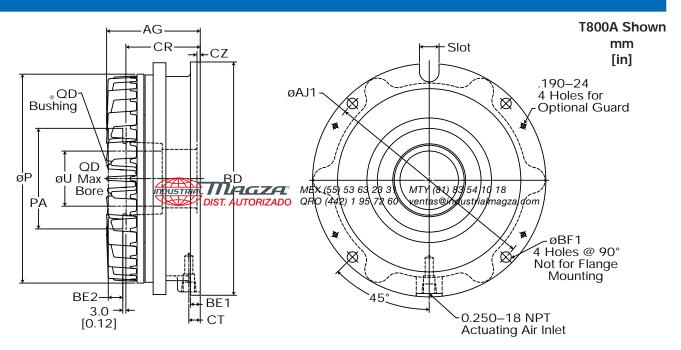
Model	Component	P/N	Shipping Weight
S450A	Torque Pin Bracket	819900	0.5 kg [1 lbs]
	Brake Safety Guard	817700	0.9 kg [2 lbs]
S600A	Torque Pin Bracket	821400	0.9 kg [2 lbs]
	Brake Safety Guard	818300	0.9 kg [2 lbs]
S800A	Torque Pin Bracket	823400	0.9 kg [2 lbs]
	Brake Safety Guard	826300	1.4 kg [3 lbs]
S1000A	Torque Pin Bracket	825500	1.8 kg [4 lbs]
	Brake Safety Guard	828200	1.8 kg [4 lbs]

These accessories have the same dimensions as standard S-brakes. Please consult the Nexen Product Catalog or www.nexengroup.com for dimensional drawings.

** For additional bore sizes, available bushings or Ultra LoCo friction facings, contact Nexen Technical Support at 800-843-7445.

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Advanced Series Tapered-Bore Brake (TA), Approximate Dimensions



Madal	Model AG ØAJ1 Ø	~ A 11	~ 4 12*	PD	BE1	BE2	øBF1	CR	СТ	CZ	Р	PA	øU	Slot	
woder		øAJ2*	BD		DEZ		CR	U	62	Р	PA	ØŪ	WD	DP	
T450A	63.4 [2.50]	134.87 [5.310]		150.9 [5.94]	7.1 [0.28]	7.9 [0.31]	7.14 [0.281]	52.6 [2.07]	11.2 [0.44]	7.1 [0.28]	115.8 [4.56]	50.8 [2.00]	25.4 [1.000]	9.6 [0.38]	16.5 [0.65]
T600A	81.5 [3.21]	165.10 [6.500]		182.63 [7.19]	9.65 [0.38]	11.2 [0.44]	9.12 [0.359]	61.5 [2.42]	10.41 [0.41]	1.8 [0.07]	153.92 [6.06]	66.5 [2.62]	34.93 [1.375]	15.93 [0.63]	16.8 [0.66]
T800A	91.7 [3.61]	212.85 [8.380]		228.6 [9.00]	9.7 [0.38]	14.2 [0.56]	10.31 [0.406]	72.8 [2.87]	11.2 [0.44]	3.5 [0.14]	204.7 [8.06]	98.6 [3.88]	53.98 [2.125]	19.1 [0.75]	17.5 [0.69]
T1000A	106.4 [4.19]	277.80 [10.937]	279.40 [11.000]	301.8 [11.88]	12.7 [0.50]	22.4 [0.88]	13.49 [0.531]	86.5 [3.40]	18.3 [0.72]	1.4 [0.06]	255.5 [10.06]	152.4 [6.00]	73.02 [2.875]	22.3 [0.88]	23.1 [0.91]

* Four additional holes @ 90° apart and 15° from the centerline are present on the T1000A models.

Product Numbers

Model	P/N**	QD [®] Bushing Type*
T450A, Std.	819003	JA
T450A, LoCo	819004	JA
T600A, Std.	820604	SH
T600A, LoCo	820605	SH
T800A, Std.	824202	SK
T800A, LoCo	824203	SK
T1000A, Std.	824305	E
T1000A, LoCo	824306	E

TA-Brake Accessories

Model	Component	P/N	Shipping Weight
T450A	Torque Pin Bracket	819900	0.5 kg [1 lbs]
	Brake Safety Guard	817700	0.9 kg [2 lbs]
T600A	Torque Pin Bracket	821400	0.9 kg [2 lbs]
	Brake Safety Guard	818300	0.9 kg [2 lbs]
T800A	Torque Pin Bracket	823400	0.9 kg [2 lbs]
	Brake Safety Guard	826300	1.4 kg [3 lbs]
T1000A	Torque Pin Bracket	825500	1.8 kg [4 lbs]
	Brake Safety Guard	828200	1.8 kg [4 lbs]

These accessories have the same dimensions as standard T-brakes. Please consult the Nexen Product Catalog or www.nexengroup.com for dimensional drawings.

**For Ultra LoCo Friction Facings, contact Nexen Technical Support at the number listed below.

In accordance with Nexen's established policy of constant product improvement, the specifications contained in this document are subject to change without notice. Technical data listed in this document are based on the latest information available at the time of printing and are also subject to change without notice. For current information, please consult: www.nexengroup.com

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