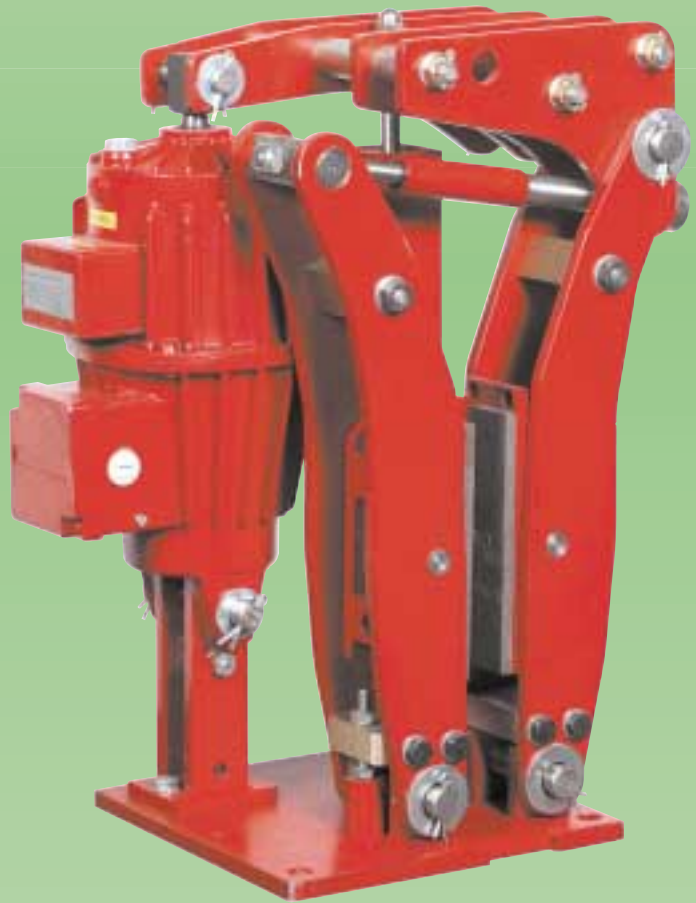


TRANSFLUID

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NB - TFDS
DRUM AND DISC BRAKES

DESCRIPTION OPERATING CONDITIONS AND SELECTION

1. Operation

- TF Drum and Disc Brakes are negative type i.e. the braking action happens when the brake is not electrically actuated. The braking force is obtained by means of a spring that, through a suitable system of levers, transmits its amplified force to the braking drums through the braking pads.

2. Technical Features

- Welded steel frame in accordance to DIN 15435 (drum brakes). Zinc coated steel frame (disc brakes).
- Epoxy resin painting (2 coatings) with RAL 3000 final color.
- Manganese phosphated pins (drum brakes). Stainless steel pins (disc brakes).
- Self lubricating bushes and stainless steel pins.
- Light alloy drums with asbestos free glued braking pads (drum brakes) Asbestos free lining pads, glued to easy-to-replace plates (disc brakes).
- Friction coefficient $\mu = 0,42$.
- Braking torque scale indicator.
- Protection grade IP 56.

3. Optionals (upon request)

- Automatic wear compensation device.
- Lining max wear indicator, fitted on rod.
- Open brake indicator, either fitted on thrustor or on spring set (to be specified).
- Adjustable delay valve.
- Brake manual opening lever.
- Protection grade IP65.
- Braking drums 50% wider (drum brakes).
- Stainless steel pins instead of phosphated pins (drum brakes).

4. Thrustor Types

- TRANSFLUID Electrohydraulic (Standard).
- EMG ELTMA Electrohydraulic (Upon request).
- EMG ELDRO Electrohydraulic (Upon request).
- Pneumatic (Upon request).

5. Brake Selection Data

- Type of application.
- Stops per hour.
- Required voltage (standard 230/400 V – 50 Hz).
- Air pressure supply (in case of pneumatic actuator).
- Required optionals.
- Drum diameter and width (drum brakes).
- Disc diameter (disc brakes). Standard disc thickness is 30 mm.

6. Abbreviations of actuators

- TF: TRANSFLUID Electrohydraulic actuator.
- Ed: ELDRO Electrohydraulic actuator.
- Eb: ELTMA Electrohydraulic actuator.

7. Abbreviations of Drum and Disc Brakes

- FCA: Open brake indicator.
- FCU: Maximum wear indicator.
- LSM: Manual disengagement lever.
- SV: Adjustable delay valve.
- RG: Automatic wear compensation device.

Drum brakes only:

- L: Special large drums.
- INOX: Stainless steel pins.

Disc brakes only:

- DX: Right hand execution.
- SX: Left hand execution.

8. Applications

- Brake for lifting service.
- Brake for translating service.
- Emergency brake.
- Safety brake.

9. Quick Selection Tables

- **TAB. A**) DRUM BRAKES.
- **TAB. B**) DISC BRAKES.



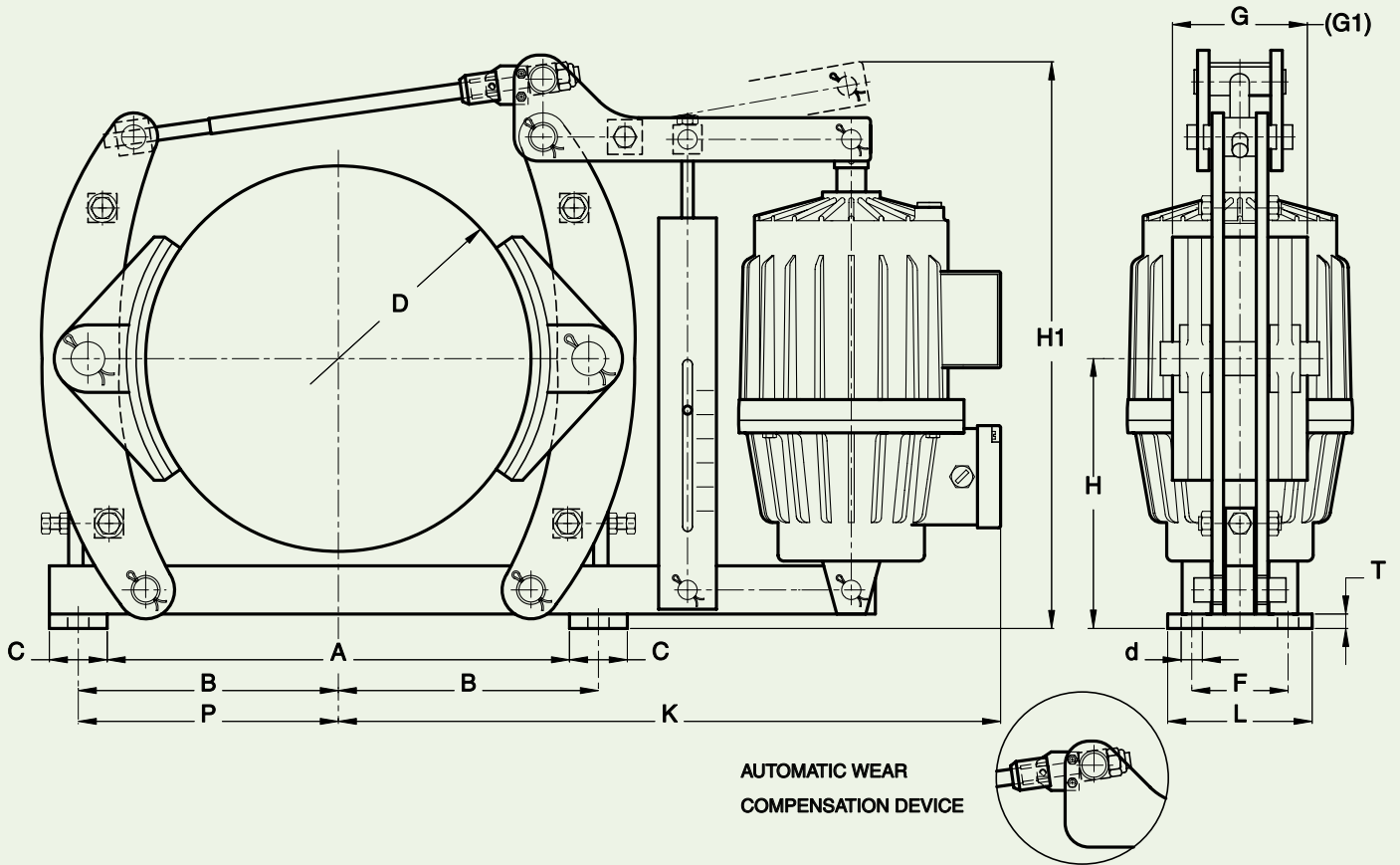
TAB. A

Brake Series	Thrustor Maximum brake torque Nm						
	TF 22/50	TF 30/50	TF 60/50	TF 75/50	TF 80/60	TF 200/60	TF 300/60
NB 160	120	–	–	–	–	–	–
NB 200	160	240					
NB 250	220	250	500	1000	2100	–	–
NB 315	250	350	700				
NB 400	–	500	870	1250	2100	4400	7800
NB 500		–	1100	1600	2700		
NB 630	–	–	–	–	3270	5400	7800



TAB. B

Brake Series	Disc dia. mm	Thrustor Maximum brake torque Nm					
		TF 22/50	TF 30/50	TF 60/50	TF 80/60	TF 200/60	TF 300/60
TFDS 1	355	290	435	870	–	–	–
	400	340	490	980			
	450	390	530	1060			
	500	440	575	1150			
TFDS 2	450	–	–	1350	2700	4500	–
	500			1500	3000	5000	
	560			1700	3400	5700	
	630			1850	3700	6200	
	710			2100	4200	7000	
TFDS 3	630	–	–	3900	6500	9750	–
	710			4410	7350	11000	
	800			5050	8500	12750	
	1000			6300	10500	15750	
	1250			7700	12800	19000	

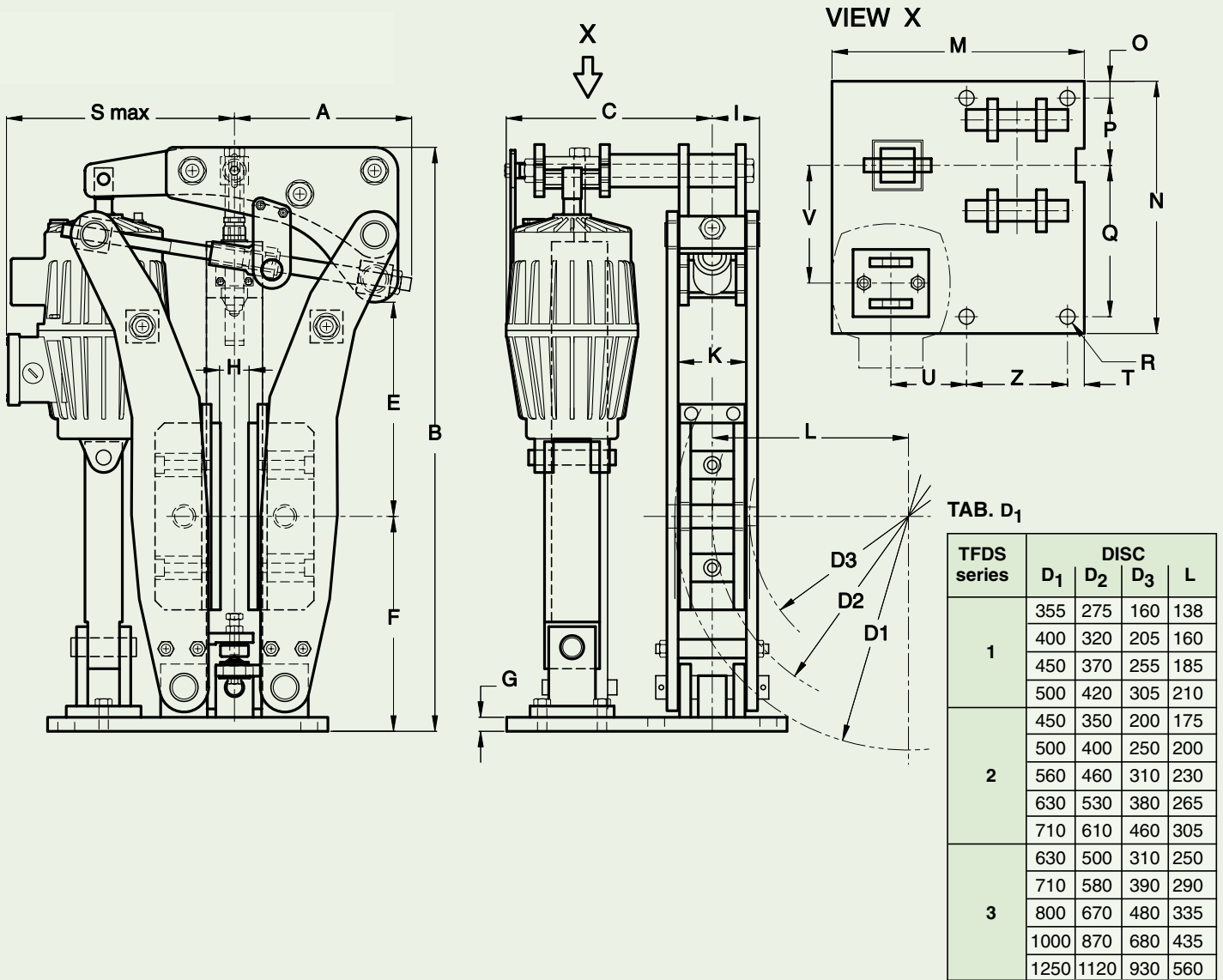


TAB. C

SERIES NB	Thruster TF	D	A	B	C	Nr	Dimensions mm.										Brake Weight Kg	Total Weight Kg
							d Ø	F	G	(G ₁)	H	H ₁ max	K	L	P	T		
160	22/50	160	200	120	40	4	12	50	55	-	130	376	362	80	140	10	9	16
200		200	250	145			14	55	70	105	160	471	386	92	165		11	18
200	30/50	250	310	180	50		18	65	90	135	190	517	453	110	207	12	18	25
250	22/50												541				36	
	30/50												478				30	
315	60/50	516	32															
	22/50	541	36															
	30/50	566	41															
315	60/50	566	41															
	75/50	574	43															
	30/50	400	480	270	60		22	100	140	210	280	600	669	150	312	15	48	60
400	60/50												668				62	
	75/50					668							69					
500	80/60.2	500	586	325	60	22	130	180	270	340	800	693	180	400	15	79	93	
	500											60/50				712	96	
												75/50				712	96	
	200/60											723				122		
630	80/60.2	630	700	400	100	27	170	225	335	420	888	903	250	475	20	122	143	
	630											200/60				903	165	
												300/60				903	167	

G₁ INCREASED WIDTH BRAKE DRUM

DIMENSIONS ARE SUBJECT TO ALTERATION WITHOUT NOTICE



TAB. C

TFDS series	Thrustor TF series	Dimensions mm.																				
		A	B max	C	E	F	G	H	I	K	M	N	O	P	Q	Nr	Ø	S max	T	U	V	Z
1	22/50			221														246				
	30/50	225	650	234	220	230			62	70	300	300		80	180		18	268		90	140	120
	60/50			246			15											276				
2	60/50			316														311				
	80/60	250	800	332	290	280		30	75	90	370	375		130	130	4	22	330		145	175	140
	200/60			352														341				
3	80/60			352														342				
	200/60	290	1050	372	440	370	20		95	120	410	460	50	180	180		27	353	30	155	187	160
	300/60			372														353				

DIMENSIONS ARE SUBJECT TO ALTERATION WITHOUT NOTICE