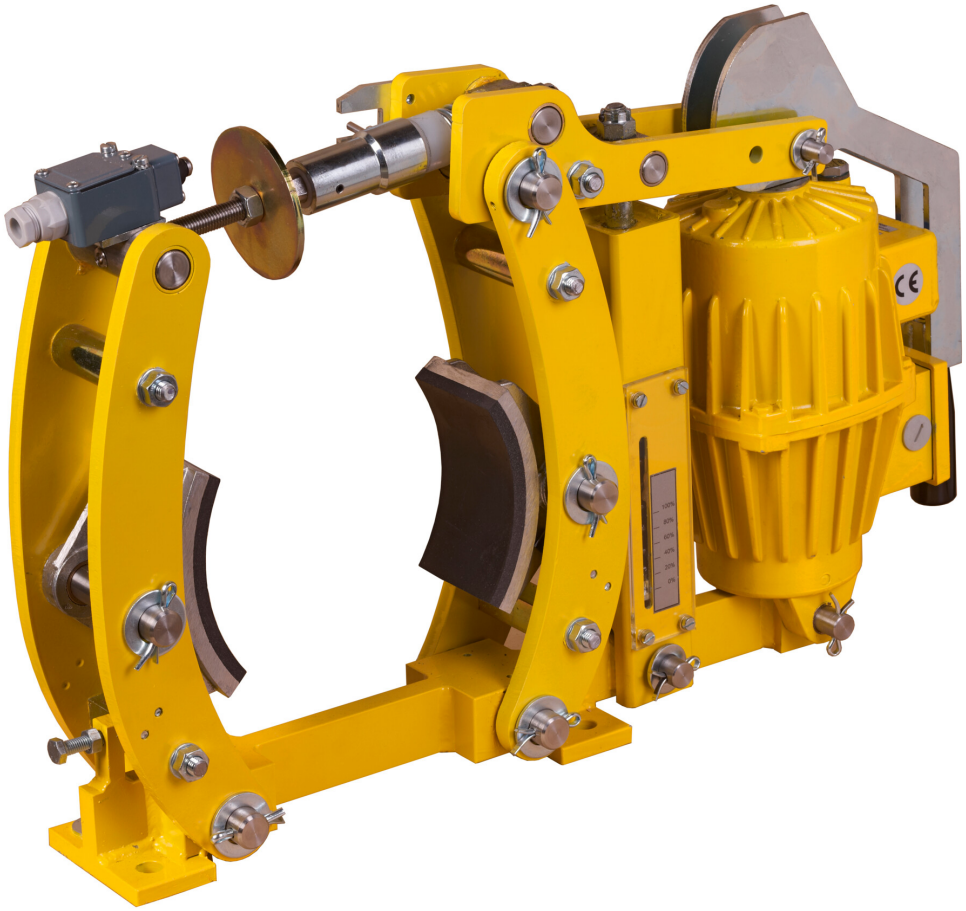
Creative solutions for the industry

ST250-TH3

SPRING APPLIED DRUM BRAKE
Adjustable braking torque - Thruster released



Specifications

Braking torque:	750 **Nm**
Max. setting:	100 **%**
Min. setting:	20 **%**
Weight:	46 **kg**

Working conditions

Ambient temperature: -20° / +60°C
Air humidity: < 90%

Materials

Welded steel structure with galvanized protection before painting *(RAL 1021)*.
The painted parts are varnished. The shoes carrying the lining are made of light alloy. The pivot shafts are made of low tolerance self-lubricating stainless steel. The bushes are bronze. The asbestos-free linings are glued to the shoes and are resistant to the highest industrial temperatures.

Characteristics

- According to standard DIN 15435
- Compact design
- Very precise oscillations
- Easy installation and maintenance
- Easy to replace linings
- Wide diameter stainless steel shafts
- Automatic lining wear adjustment
- Adjustable braking torque
- Three-phase power supply 230/400 – 50Hz

Braking torque

The braking force is provided by a spring located inside a graduated tube for torque adjustment. The braking torque may be set in intervals varying from 20 to 100% torque by adjusting the spring tension.

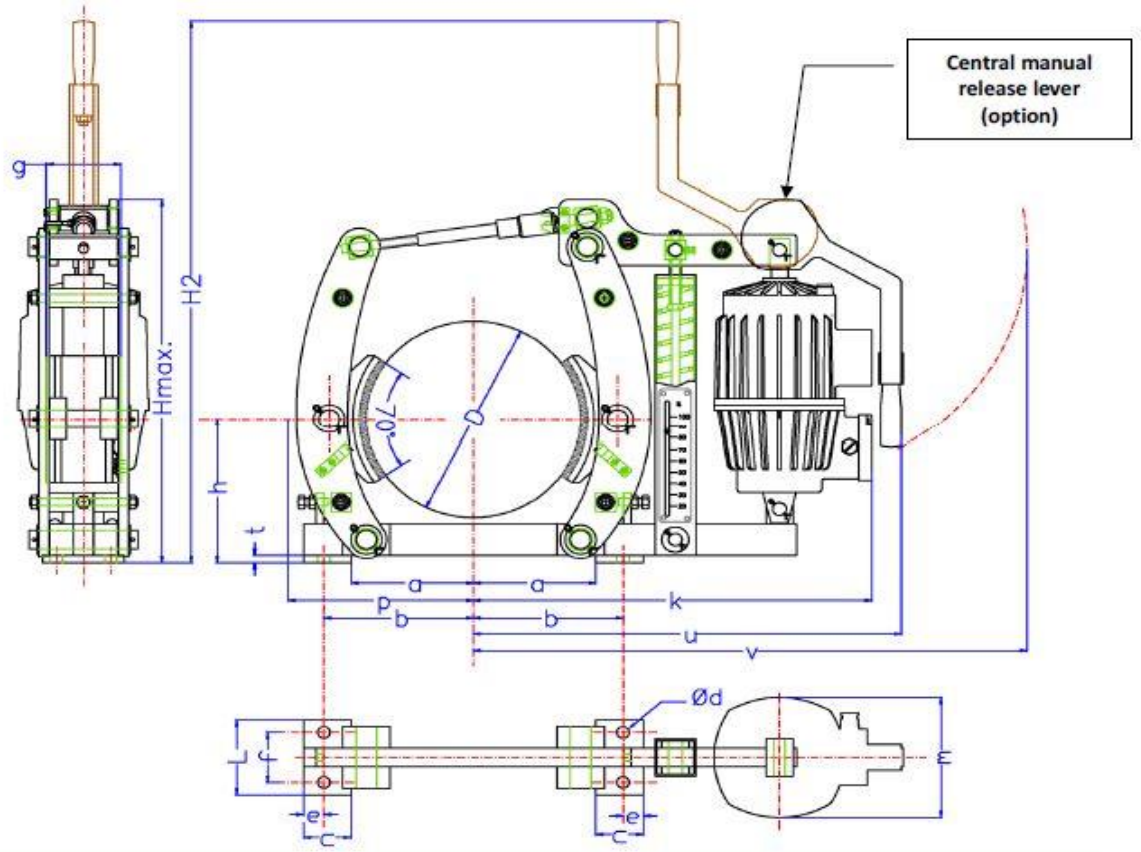
Automatic lining wear adjustment

Automatic adjustment of brake lining clearance. This system maintains the shoes at a fixed distance from the drum to keep a constant braking force despite progressive lining wear.

Special applications

Pneumatic or
hydraulic actuator

Horizontal
actuator



Type of brake	Type of thruster	Max braking torque in Nm μ=0,4	Overall dimensions in mm																		Weight with thruster Kg
			D	a	b	c	d	e	f	g	h	H max	k	L	m	p	t	u	v	H2	
St 200	Th 1	250	200	115	145	50	14	20	55	70	160	405	411	92	142	170	10	458	590	628	31
St 200	Th 2	330										505	453		168			510	692	800	36
St 250	Th 1	300	250	145	180	60	18	25	65	90	190	538	483	110	142	212	12	518	654	741	39
St 250	Th 2	400											508		168			565	660	825	44
St 250	Th 3	750											516		192			565	660	825	46
St 315	Th 1	350	315	180	220	70	18	30	80	110	230	602	553	120	142	263	12	590	723	799	55
St 315	Th 2	480											578		168			638	823	874	60
St 315	Th 3	950											586		192			638	823	874	62
St 315	Th 4	1800											605		234			645	846	810	69
St 400	Th 2	680	400	230	270	70	22	30	100	140	280	730	665	150	168	314	15	721	902	970	97
St 400	Th 3	1300											673		192			721	902	970	99
St 400	Th 4	2500											692		234			727	899	1003	106
St 500	Th 3	1600	500	285	325	90	22	30	130	180	340	867	803	180	192	395	15	850	1034	1084	164
St 500	Th 4	3100											822		234			864	1032	1018	171
St 500	Th 5	5120											833		274			855	1214	1271	194
St 630	Th 4	3100	630	340	400	95	27	50	170	225	420	1010	898	250	234	468	20	939	1106	1170	231
St 630	Th 5	5000											909		274			963	1288	1423	254
St 630	Th 6	7200											909		274			963	1288	1423	254

Lining wear control switch

Feeds back information to the customer's control system when the linings need replacement.

Opening control switch

Feeds back "open brake" information to the customer's control system.

Manual release lever

Brake opening function when downpowered to replace shoes and for maintenance operations.
A lever located in the longitudinal axis of symmetry of the brake facilitates the opening operation, avoiding transverse deformation stresses on the brake structure.

Other options

- Wide shoes. Width increased by 50% to improve heat dissipation. Recommended for heavy duty.
- Special voltages and frequencies.
- HR design actuators (high temperature) for ladle crane.
- Actuators with adjustable slow down valve.