



**Heavy Duty, Reliable,
Automatic Brake Adjusters**

brake adjuster™

CLEARANCE SENSING BRAKE ADJUSTER

Designed for a wide range of applications

With TSE Brakes Clearance Sensing Slack Adjusters we deliver world class quality and service you can count on day in and day out. At TSE Brakes we have all the heavy and severe duty applications in our portfolio ranging from transit, concrete, refuse, buses, OTR Tractors and Trailers. All of our adjusters have been designed with our variety of design features to the highest quality standards in a TS16949 certified factory.

Proven Clearance Sensing Design

TSE Premium brake adjusters incorporate the proven clearance sensing design that continuously and automatically adjusts to compensate for both lining and drum wear. TSE adjusters feature a unique clutch and worm wheel design that provides the finest adjustment in the industry, thereby optimizing braking performance and component life.

Reliability

Best

Clearance Sensing Slack Adjusters on Return Stroke

This method of adjustment provides the optimum performance maintaining drum to lining clearance, not over adjusting and generates lower amounts of torque and stress on internal adjuster components.

Average

Clearance Sensing Slack Adjusters on Application Stroke

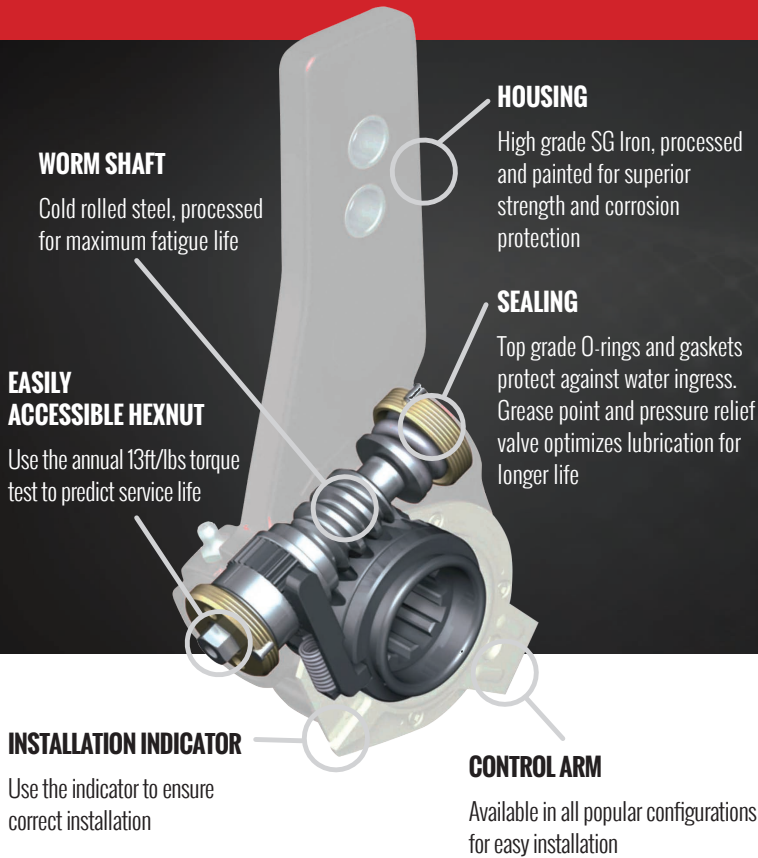
Adjustment on the application stroke creates unnecessary stress on linkages pins and internal adjuster components, lessening overall life of the adjuster.

Worst

Stroke Sensing Slack Adjusters

Stroke sensing models are not as reliable or consistent as clearance sensing models and tend to over-adjust during extended brake applications.

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TSE ASA & S-ASA Features:

- Proven clearance sensing design that outperforms stroke sensing adjusters
- Single pin design for ease of first fit installation or replacement, NO templates required
- Extra fine adjustments for optimized lining and drum wear
- Improved bushing for more durability and longer life
- Integral pressure relief valve to reduce chances of over-pressurizations of seals
- O-ring and gasket that seals and prevents ingress of dirt and moisture
- Extensive life cycle testing, easily passing SAE J1462
- TS 16949 and ISO 14001 certified factory
- State of the art no fault forward assembly process
- Models for line haul tractor and trailer, severe duty, transit and motor coach applications

Built to Last

All TSE brake adjusters are built to deliver reliable operation under even the most demanding conditions. These adjusters have a strengthened housing to reduce wear and corrosion, a worm shaft that receives extensive processing for increased fatigue strength, and dependable O-rings and gaskets to keep moisture and contaminants at bay for a longer service life.

TSE BRAKES NEW PRODUCT WARRANTY

TSE warrants that TSE Automatic Slack Adjusters, when installed and maintained on vehicles in accordance with their instructions, will be free of defects in material or workmanship under normal use and service for the period and mileage indicated below:

Adjuster Type	Application	Description	Warranty
Self Setting S-ASA	Line Haul Truck or Trailer	"On-highway use for all truck and trailer applications, both steer and drive axles. Preferred by OEM's"	7 years from date of manufacture or 1,000,000 miles
ASA Auto Slack	Line Haul Truck or Trailer	On-highway use for all truck and trailer applications. Used primarily in the AFM	5 years from date of manufacture or 500,000 miles
ASA Auto Slack	Severe Duty	Use in off-road refuse and heavy haul applications	2 years from date of manufacture or 100,000 miles
ASA Auto Slack	City Transit	For use in intracity applications	1 years from date of manufacture or 100,000 miles
ASA Auto Slack	Intercity Transit	For use in intercity applications	2 years from date of manufacture or 200,000 miles

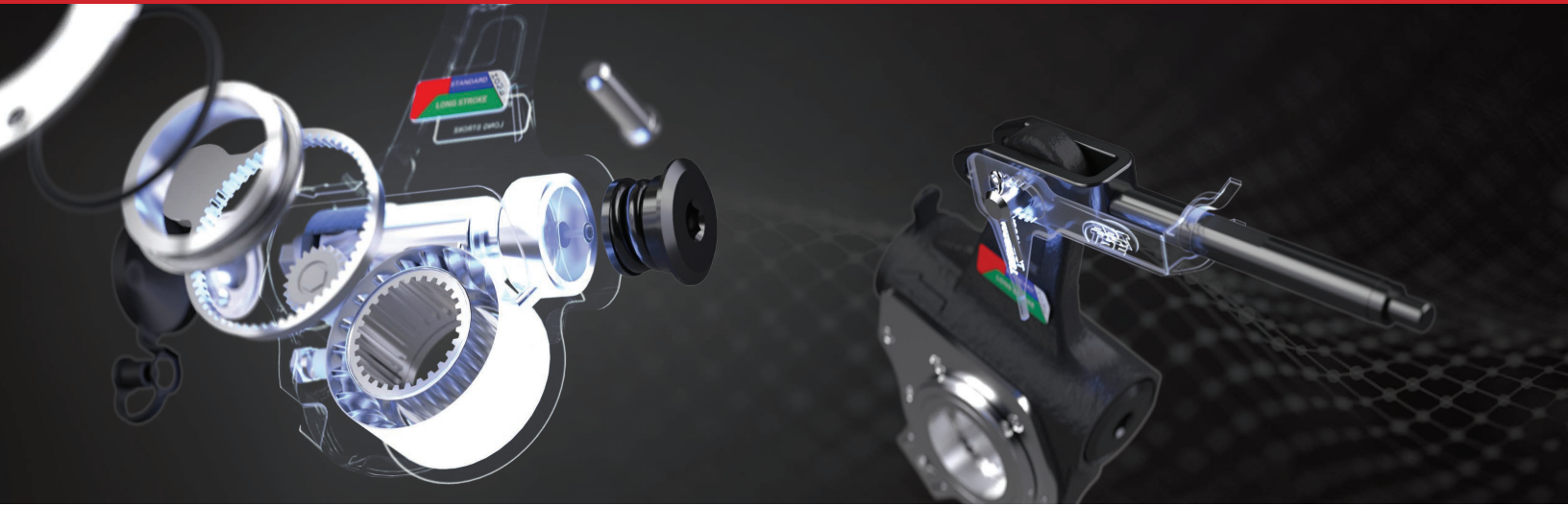


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TSE Part Numbers

TSE Part Number	TSE HARDWARE KIT	Brake TYPE	APPLICATION Axle type	OFFSET	INCLINATION	L1	L2	BUSH ID	SPLINE #
TSE07100S	TSE01700K	S-ASA	Trailer	None	L 34	5.5		5/8	28
TSE07105S	TSE01705K	S-ASA	Trailer	None	R 34	6		1/2	28
TSE07110S	TSE01705K	S-ASA	Trailer	None	R 34	6		1/2	10
TSE07115S	TSE01705K	S-ASA	Trailer	None	None	6		1/2	28
TSE07125S	TSE01705K	S-ASA	Trailer	None	None	6		1/2	10
TSE07130S	TSE01711K	S-ASA	Trailer	None	None	6		1/2	28
TSE07135S	TSE01705K	S-ASA	Trailer	None	None	5.5		1/2	28
TSE07140S	TSE01705K	S-ASA	Trailer	None	None	5.5		1/2	10
TSE07145S	TSE01701K	S-ASA	Drive	None	None	5.5		1/2	10
TSE07155S	TSE01701K	S-ASA	Trailer	None	L 34	6		5/8	28
TSE07235S	TSE01709K	S-ASA	Drive	None	None	5.5		5/8	10

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TSE Brakes Competitive Cross Reference

Competitor	Competitor Part #	TSE Part #
Bendix	065174	TSE07135S
Bendix	065175	TSE07115S
Bendix	065176	TSE07115S
Bendix	065221	TSE07100S
Bendix	065247	TSE07135S
Bendix	801353	TSE07140S
Bendix	801355	TSE07135S
Bendix	801356	TSE07115S
Euclid	E-10779A	TSE07135S
Euclid	E-10781A	TSE07115S
Euclid	E-10785A	TSE07135S
Euclid	E-10788A	TSE07115S
Gunite	AS1032	TSE07140S
Gunite	AS1034	TSE07145S
Gunite	AS1040	TSE07100S
Gunite	AS1041	TSE07115S
Gunite	AS1141	TSE07115S
Gunite	AS1149	TSE07135S
Gunite	AS1150	TSE07115S
Gunite	AS1165	TSE07135S
Gunite	AS1166	TSE07115S
Haldex	40010006	TSE07235S
Haldex	40010140	TSE07155S
Haldex	40010141	TSE07100S
Haldex	40010143	TSE07145S
Haldex	40010144	TSE07130S
Haldex	40010155	TSE07235S
Haldex	40010211	TSE07135S
Haldex	40010212	TSE07115S
Haldex	40010305	TSE07105S
Haldex	40020211	TSE07135S
Haldex	40020212	TSE07115S
Haldex	40020215	TSE07140S
Haldex	40020216	TSE07125S
Haldex	40020228	TSE07145S
Haldex	40020238	TSE07235S
Haldex	40020240	TSE07100S
Haldex	40020243	TSE07130S
Haldex	40020250	TSE07155S
Haldex	40020305	TSE07105S
Haldex	40020306	TSE07110S

Competitor	Competitor Part #	TSE Part #
Haldex	10-400-10140	TSE07155S
Haldex	10-400-10141	TSE07100S
Haldex	10-400-10143	TSE07145S
Haldex	10-400-10144	TSE07130S
Haldex	10-400-10155	TSE07235S
Haldex	10-400-10211	TSE07135S
Haldex	10-400-10212	TSE07115S
Haldex	10-400-10305	TSE07105S
Haldex OE	40910656	TSE07110S
Haldex OE	40920006	TSE07130S
Meritor	M807002	TSE07235S
Meritor	M807006	TSE07105S
Meritor	M807013	TSE07115S
Meritor	M807016	TSE07130S
Meritor	M807019	TSE07135S
Meritor	M807022	TSE07145S
Meritor	M807024	TSE07155S
Meritor	M807026	TSE07100S
Meritor	M808006	TSE07105S
Meritor	M808013	TSE07115S
Meritor	M808015	TSE07125S
Meritor	M808016	TSE07130S
Meritor	M808019	TSE07135S
Meritor	M808021	TSE07140S
Meritor	M808024	TSE07155S
Meritor	M808026	TSE07100S
Meritor	R801071	TSE07115S
Meritor	R801072	TSE07135S
Meritor	R801073	TSE07135S
Meritor	R801074	TSE07115S
Meritor	R801075	TSE07115S
Meritor	R801079	TSE07135S
Meritor	R801080	TSE07135S
Meritor	R802446	TSE07135S
Meritor	R802447	TSE07135S
Meritor	R806013	TSE07115S
Meritor	R806019	TSE07135S
Meritor	R806022	TSE07145S
Meritor	R806024	TSE07155S
Meritor	R806026	TSE07100S
Midland	CS52316	TSE07145S

Competitor	Competitor Part #	TSE Part #
Midland	CS52320	TSE07100S
Midland	CS52321	TSE07155S
Midland	CS52347	TSE07135S
Midland	CS52349	TSE07115S
Midland	CS52354	TSE07145S
Midland	CS52355	TSE07155S
Midland	CS52356	TSE07100S
Midland	CS52364	TSE07135S
Midland	CS52365	TSE07115S
Stemco	MK21100S	TSE07235S
Stemco	MK21102S B	TSE07145S
Stemco	MK21200S	TSE07140S
Stemco	MK21300S	TSE07235S
Stemco	MK22100S	TSE07135S
Stemco	MK42100S	TSE07135SX
Stemco	MK22102S B	TSE07100S
Stemco	MK22103S B	TSE07155S
Stemco	MK22106S	TSE07115S
Stemco	MK22106S	TSE07115S
Stemco	MK22200S	TSE07100S



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