

# TECHNICAL INFORMATION



The unique design of the Haldex S-ABA installs easily, improves performance, maximizes service life, streamlines inventories and interchanges with current Haldex automatic brake adjusters.

The S-ABA is a self-setting adjuster that establishes its own reference point. So, the S-ABA control arm will set itself at any angle within the total range of permissible control arm positions allowed with current adjusters and function properly. It provides the proper lining to drum clearance — regardless of control arm installation angle.

The S-ABA solves adjustment problems caused by incorrect installation, making installation faster, simpler and more efficient.

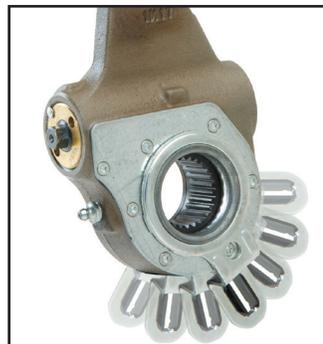
## Self-Setting Automatic Brake Adjuster (S-ABA)

For improved performance, the S-ABA has a more sensitive adjustment rate to permit the clearance-sensing design to maintain optimal lining to drum clearance.

The clearance-sensing design maintains a constant and uniform distance between the brake drum and lining.

The gradual adjustment of the Haldex S-ABA minimizes the risk of over-adjustment during long hard braking.

This optimal brake adjustment helps prevent brake wear, which reduces operating and downtime costs.



S-ABA allows the control arm to be set at any angle from minus 16 to 124 degrees.

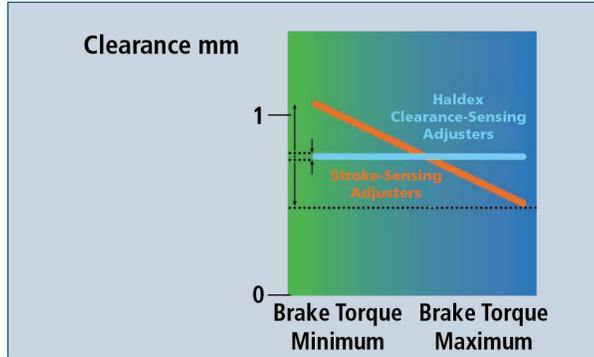


# Design and Function

The S-ABA incorporates several life extending design advances including: heat treated housing to extend service life and minimize internal wear; centralized clutch location to further improve protection from moisture, dirt and road salt; internal gears made of high-strength, high alloy steel and heat treated to minimize wear; and wormshaft rolled to further increase the shaft's fatigue life. Inventories are streamlined since the flexibility of the S-ABA control arm position or location can effectively replace several other fixed control arm brake adjusters — lowering handling and storage costs. And, as with other Haldex automatic brake adjusters, it is easy to check the function of the S-ABA.

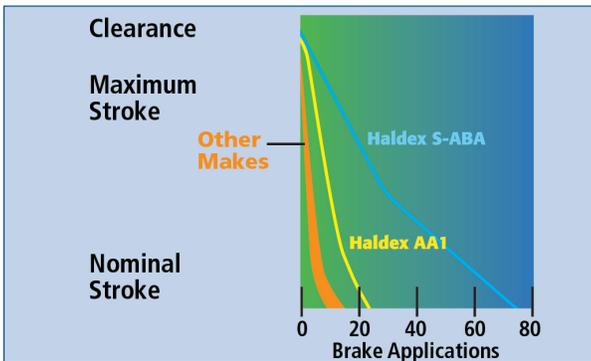
The S-ABA is currently available for both truck and trailer applications.

## Clearance Comparison Chart



The clearance-sensing design of the S-ABA maintains a constant and uniform distance between the brake drum and lining.

## Gradual Adjustment Chart



The gradual adjustment of the Haldex S-ABA minimizes the risk of over-adjustment during long hard braking.

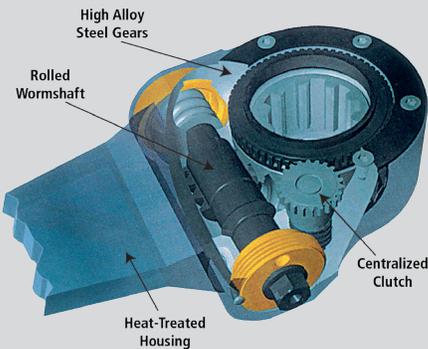
## STANDARD APPLICATION PART NUMBERS

S-ABA Part Number	Spline	Arm Length	ABA(*) Part Number
40020215	1 1/2" - 10	5.5"	40010215
40020216	1 1/2" - 10	6.0"	40010216
40020211	1 1/2" - 28	5.5"	40010211
40020212	1 1/2" - 28	6.0"	40010212
40020213	1 5/8" - 37	5.5"	40010213
40020214	1 5/8" - 37	6.0"	40010214
40020240	1 1/2" - 28	5.5"	40010141
40020239	1 1/2" - 10	5.5"	40010143
40020235	1 1/4" - 10	5.5"	40010072
40020236	1 1/2" - 10	5.5"	40010071
40020241	1 1/2" - 28	5.5"	40010070

(\*) Original Haldex ABA.



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Warning: Haldex strongly recommends routine visual checks be performed at EACH maintenance service interval. Foundation brake operational checks utilizing CVSA level 1 applied stroke criteria should always be utilized. Manual adjustment of automatic adjusters can disguise hidden problems within the foundation brake. Brake components such as s-cams, bushings, return springs, actuators, drums and adjuster installation MUST be within manufacturer's specifications. Adjuster control arms, wear bushings or attaching hardware that demonstrate visual damage, or which fail the operational checks, MUST be replaced immediately. Automatic Adjusters should NEVER be operated as manual adjusters except as may be necessary to get the vehicle off the road for service.



[www.haldex.com](http://www.haldex.com)

If you have questions or need further details, please contact your Haldex Representative.

United States 816.891.2470  
Canada 519.621.6722  
Mexico 52.81.81569500

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