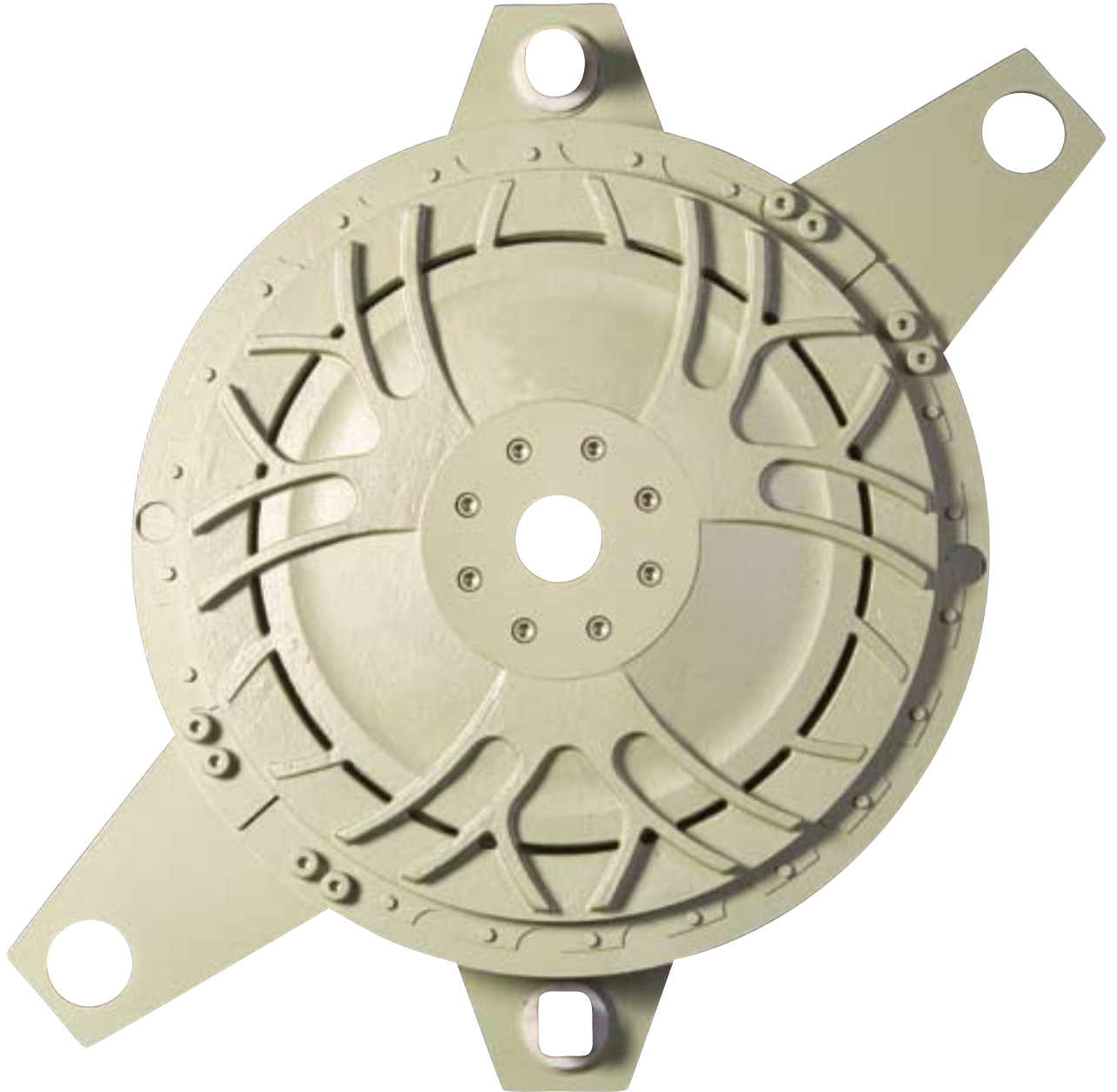


High torque,
low inertia,
compact design

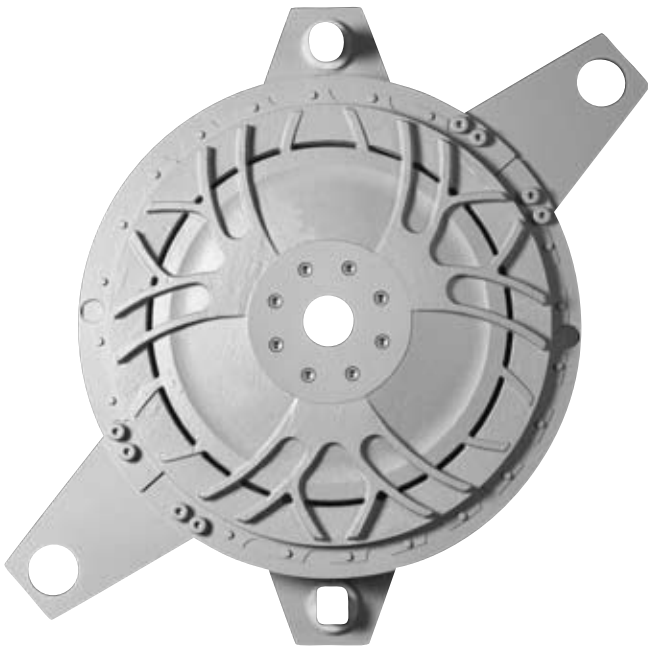


EATON

Powering Business Worldwide

AMCB AccuStop™ Clutch/Brake Combination

The Airflex AMCB AccuStop™ clutch/brake combination consists of an air-actuated disc clutch and a spring-applied disc brake. Engineered for small-to-medium tonnage (40 to 400 ton), high speed, high cycle punch presses, the AMCB AccuStop™ unit delivers high torque and low inertia in a compact design.



Installation and Operation

The AMCB AccuStop™ clutch/brake unit is adaptable to new or existing flywheel drives. The hub is pressed on and keyed to the drive shaft. The clutch disc is fastened to the flywheel, and the brake disc is reacted to the machine. When the cylinder is pressurized during operation, the piston clamps the clutch disc to the hub, transmitting torque to the shaft. As the cylinder exhausts, the springs move the piston in the opposite direction, clamping the brake disc and stopping the shaft.

A maximum operating pressure of 7.0 bar (100 psi) allows for added torque when needed, and a large torque tube ensures even distribution of torque loads throughout the unit. Efficient air cooling permits a stable coefficient of friction, resulting in reproducible torque control even at maximum wear.

AMCB AccuStop™ units provide clutch torque from 9,830 N·m to 16,140 N·m at 6.0 bar (85 psi) and brake torque of 7,490 N·m.

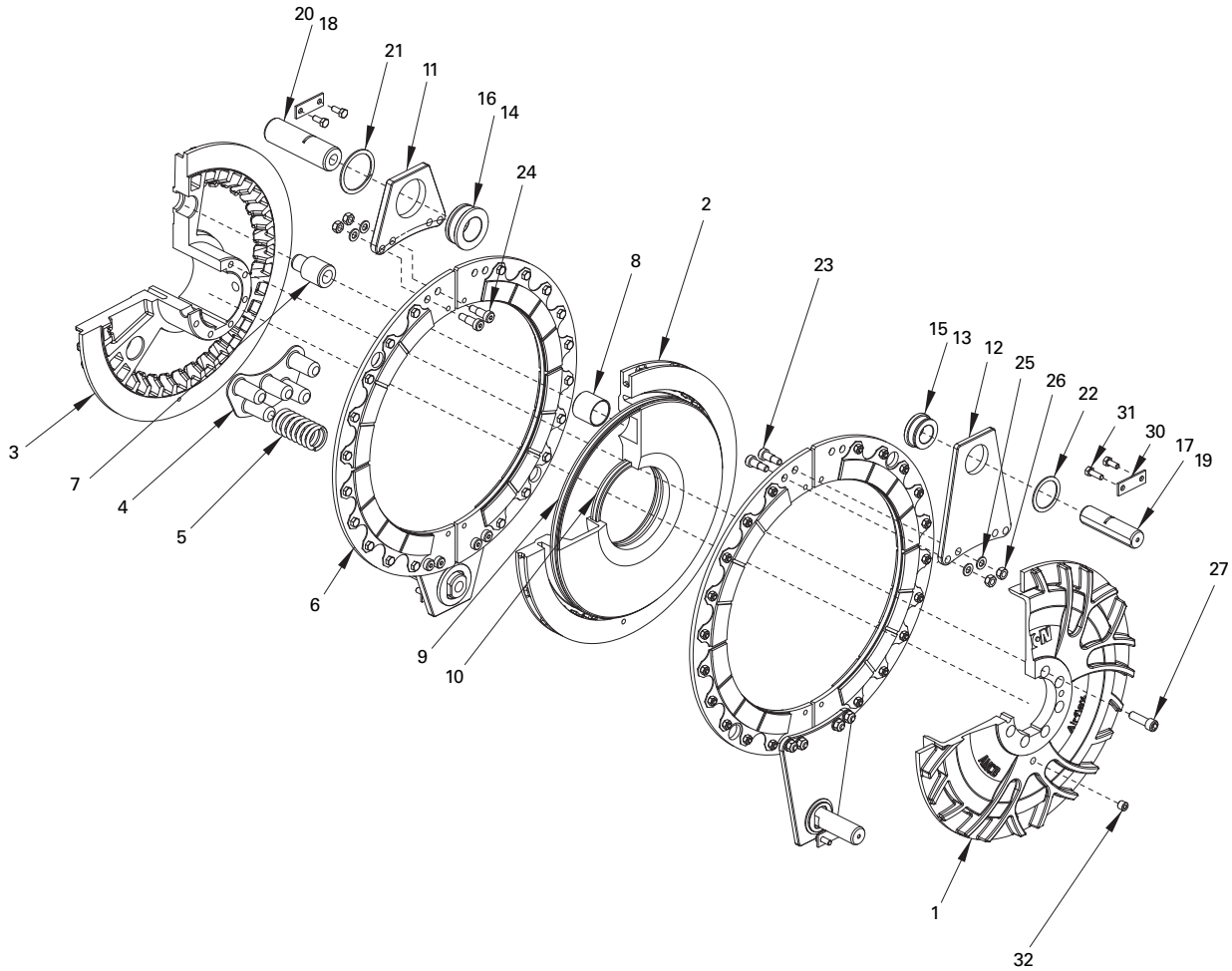
Standard applications include:

- Automatic punching machines
- Press brakes
- Printing machines
- Shears
- Stamping and forming presses
- Woodworking machines

Features

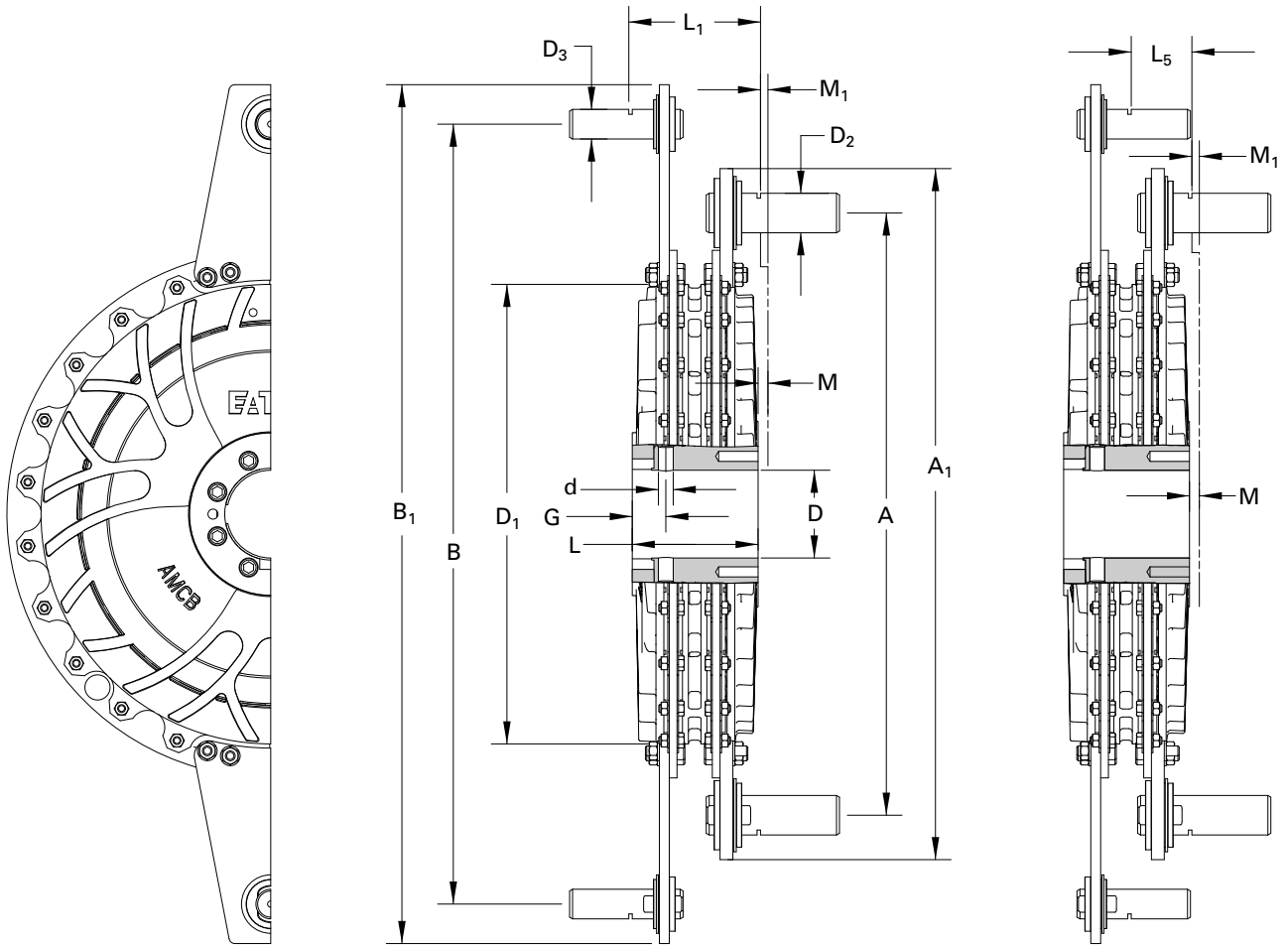
The AMCB AccuStop™ unit is precision engineered and manufactured from high-performance materials to reduce maintenance time and maintain production. Standard features include:

- Ductile iron cylinder for long cycle life under tough industrial conditions
- Low inertia housing provides less energy per stop
 - maximizes cycle times
 - reduces friction material wear
- Long life friction material results in less downtime, maintenance and replacement cost
- Consistent, stable stopping angle decreases the need for adjustments to the press
- Bolted friction shoes allow for easy replacement without requiring disc removal
- Designed in safety feature provides a signal at the end of friction material life and ensures torque remains to stop the operation
- Engineered, self-lubricating composite bushings for quiet operation
- Eaton is ISO 9001 certified
- AMCB AccuStop™ design conforms to all relevant portions of ANSI B11.1 standard for metal forming presses



AMCB AccuStop™ Component Parts

Item	Description	Item	Description
1	Cylinder	16	Short Arm Bushing (Rectangular)
2	Piston	17	Long Arm Reaction Pin (Round)
3	Hub	18	Short Arm Reaction Pin (Round)
4	Spring Retainer	19	Long Arm Reaction Pin (Square)
5	Compression Spring	20	Short Arm Reaction Pin (Square)
6	Friction Disc Assembly	21	Retaining Ring
7	Torque Tube	22	Retaining Ring
8	Torque Tube Bushing	23	Shoulder Bolt
9	Piston Seal (Outer)	24	Shoulder Bolt
10	Piston Seal (Inner)	25	Flat Washer
11	Short Reaction Arm	26	Hexagon Nut
12	Long Reaction Arm	27	Socket Head Screw
13	Long Arm Bushing (Round)	30	Retaining Plate
14	Short Arm Bushing (Round)	31	Hex Head Screw
15	Long Arm Bushing (Rectangular)	32	Pipe Plug



DIMENSIONALS - METRIC UNITS (MM)*

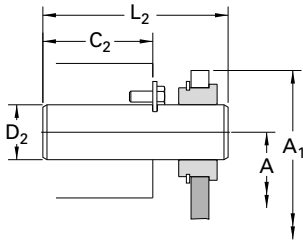
AMCB AccuStop™ Model	Bore Range (mm)**		A	A ₁	B	B ₁	D ₁	D ₂	D ₃	d	G	L	L ₁	L ₅	M	M ₁	
	D (Min)	D (Max)															
30																	
35																	This information will be available at a later date.
40																	
45	72	120	770	880	990	1085	593	45	40	18	42	155	170	102	15	0	
50																	This information will be available at a later date.

DIMENSIONALS - ENGLISH UNITS (IN)*

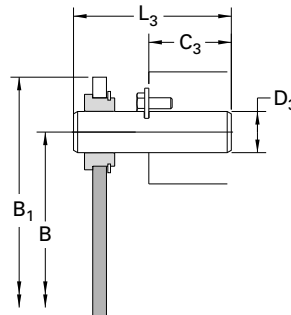
AMCB AccuStop™ Model	Bore Range (in)**		A	A ₁	B	B ₁	D ₁	D ₂	D ₃	d	G	L	L ₁	L ₅	M	M ₁	
	D (Min)	D (Max)															
30																	
35																	This information will be available at a later date.
40																	
45	2.835	4.724	30.315	34.646	38.976	42.717	23.346	1.772	1.575	0.709	1.654	6.102	6.693	4.016	0.591	0.000	
50																	This information will be available at a later date.

* Dimensions shown are for reference only. Consult factory for specific installation information.

** Maximum bores are based on two flat English keys. Consult factory for other arrangements.



**Short Arm Reaction
Pin Mounting Dimensions**



**Long Arm Reaction
Pin Mounting Dimensions**

ARM MOUNTING DIMENSIONALS - METRIC UNITS (MM)*

AMCB AccuStop™ Model	Short Arm Reaction Pin Mounting Dimension					Long Arm Reaction Pin Mounting Dimension					Screw Size	
	C ₂	D ₂	E ₂	H ₂	L ₂	C ₃	D ₃	E ₃	H ₃	L ₃	d ₄	L ₄
30												
35												
40												
45	90	45	29.5	42	160	80	40	27	42	135	M8	20
50												

This information will be available at a later date.

This information will be available at a later date.

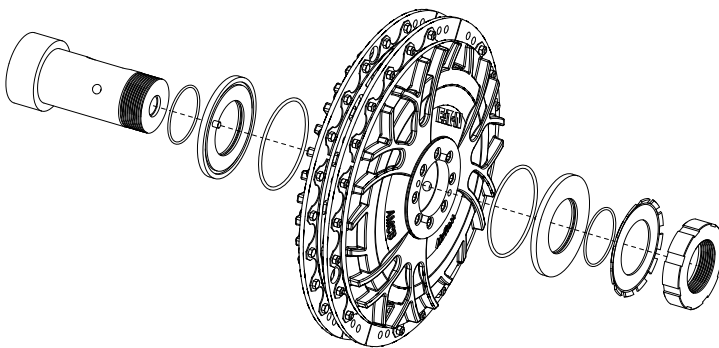
ARM MOUNTING DIMENSIONALS - ENGLISH UNITS (IN)*

AMCB AccuStop™ Model	Short Arm Reaction Pin Mounting Dimension					Long Arm Reaction Pin Mounting Dimension					Screw Size	
	C ₂	D ₂	E ₂	H ₂	L ₂	C ₃	D ₃	E ₃	H ₃	L ₃	d ₄	L ₄
30												
35												
40												
45	3.543	1.772	1.161	1.654	6.299	3.150	1.575	1.063	1.654	5.315	M8	0.787
50												

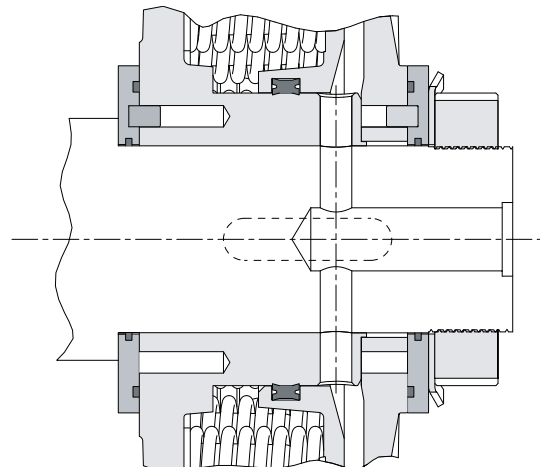
This information will be available at a later date.

This information will be available at a later date.

* Dimensions shown are for reference only. Consult factory for specific installation information.



**Alternative method of sealing
air supply between the clutch/
brake housing and shaft**



PERFORMANCE - METRIC UNITS

AMCB AccuStop™ Model	Number of Springs	Dynamic Brake Torque (N-m)	Brake Release Pressure (bar)	Static Clutch Torque (N-m) at Various Pressures (bar)*				
				6.0**	5.5	5.0	4.5	4.0
30								
35								
40								
45	15	7,490	2.5	9,830	8,790	7,750	6,710	5,660
	12	5,990	2.0	11,410	10,360	9,320	8,280	7,240
	9	4,500	1.5	12,980	11,940	10,900	9,850	8,810
	6	2,990	1.0	14,560	13,510	12,470	11,440	10,400
	3	1,500	0.5	16,140	15,100	14,060	13,010	11,970
50								

This information will be available at a later date.

This information will be available at a later date.

PERFORMANCE - ENGLISH UNITS

AMCB AccuStop™ Model	Number of Springs	Dynamic Brake Torque (lb-in)	Brake Release Pressure (psi)	Static Clutch Torque (lb-in) at Various Pressures (psi)*				
				85.0**	80.0	75.0	70.0	65.0
30								
35								
40								
45	15	66,300	36	87,000	77,800	68,600	59,400	50,100
	12	53,000	29	101,000	91,700	82,500	73,300	64,100
	9	39,800	22	114,900	105,700	96,500	87,200	78,000
	6	26,500	15	128,900	119,600	110,400	101,200	92,000
	3	13,300	7	142,800	133,600	124,400	115,100	105,900
50								

This information will be available at a later date.

This information will be available at a later date.

*Torque Ratings are with new linings. Reduce clutch torque by 10% and brake torque by 15% for fully worn linings.

**Maximum allowable pressure is 7.0 bar / 100 psi.

TECHNICAL DATA - METRIC UNITS

AMCB AccuStop™ Model	Maximum Speed RPM*	Maximum Air Pressure (Bar)	Brake Release Air Pressure (Bar) 15 Spring Configuration	AMCB AccuStop™ Total Weight (Kg) Includes friction disc/arms	AMCB Housing Inertia (Kg-m ²)
30					
35					This information will be available at a later date.
40					
45	900	7.0	2.5	160	4.8
50					This information will be available at a later date.

TECHNICAL DATA - ENGLISH UNITS

AMCB AccuStop™ Model	Maximum Speed RPM*	Maximum Air Pressure (psi)	Brake Release Air Pressure (psi) 15 Spring Configuration	AMCB AccuStop™ Total Weight (lb) Includes friction disc/arms	AMCB Housing Inertia (lb-ft ²)
30					
35					This information will be available at a later date.
40					
45	900	100	36	352.7	114.4
50					This information will be available at a later date.

*Maximum speed for non-cyclic operation. Maximum speed for single stroke operation is dependent upon clutch and brake thermal requirements.

AMCB AccuStop™ Assembly Numbers

AMCB ACCUSTOP™ MODEL	BASIC PART NUMBER	BASIC KIT PART NUMBER
30		
35		This information will be available at a later date.
40		
45	146512	146512##
50		This information will be available at a later date.

AMCB AccuStop™ Kits

KIT DESCRIPTION	ALPHA DESIGNATION
Lining Kit	KA
Element Seal Kit	KB
Short Arm Kit	KC
Long Arm Kit	KD

Rotorseal Size

AMCB ACCUSTOP™ MODEL	AIRFLEX ROTORSEAL SIZE
30	
35	This information will be available at a later date.
40	
45	1 RH
50	This information will be available at a later date.

The Eaton Advantage

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for the **lowest total life cycle cost**

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When you purchase an Eaton product, you expect a quality solution that will keep your application running at peak performance under the harshest operating conditions. Eaton continuously strives to produce the highest quality product available because that is what customers require.

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