



EHD9000

Cast-Iron Surface Applied Door Closer



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EHD9000 CAST IRON SURFACE CLOSER



BEST EHD9000 Extra Heavy-Duty Surface Door Closer

The BEST EHD9000 is built to perform in even the highest traffic area and designed to be the most reliable, durable, and rugged door closer in the industry. When you need something as solid as your reputation, start with BEST.

Nothing Else Comes Close

- Rugged single-piece cast iron construction is sturdy with no seams, designed to perform consistently over the years.
- Front-facing spring-size indicator and adjustment points are easy to read and reach, for simpler and faster installation.
- Self-regulating valves keep your desired settings through changing temperatures.
- Dual-clamp design firmly secures the cover on both ends.
- Non-handed design with backcheck and advanced variable backcheck as standard functions allow you to have the right closer on hand.
- With one of the largest arm ranges in the market, the EHD9000 offers a solution for virtually all applications.

EHD9000 - Features

- Available with fully adjustable spring sizes 1-6+50%. Size 1 (5 lb opening force) meets interior barrier-free AD requirements.
- May be used on doors up to 48" wide interior (42" wide exterior) and up to 180 lb.
- For use on exceptionally wide, tall, or heavy doors.
- Non-handed for regular, top jamb, and parallel arm applications.
- Backcheck (BC) valve (standard) provides adjustable-intensity hydraulic cushioning, preventing uncontrolled door opening to protect door and frame during abusive or abrupt opening.
- AVB advanced variable backcheck range on parallel arm applications. Valve is accessible with the closer installed.
- Full adjustment using BC, Sweep and Latch valves standard.
- DA option with separate independent valve to allow for unobstructed passage through opening.

- Full plastic cover standard. Lead lined as well as full metal covers available.
- All tamper-resistant (hex key) valve adjustments.
- Standard components required for three mounting configurations (Reg., TJ, PA).
- SNDTPK90 Standard fasteners include separate self-drilling and self-tapping and sex nuts for 1-3/4" thick doors and machine screws.
- A variety of specialty arm options.
- Full complement of optional plates and brackets available for special applications

Certification

- ANSI/BHMA A156.4 Grade 1 certified
- UL and CUL listed

- Meets UL10C for positive pressure
- Meets ANSI/BHMA A117.1 and ADA for barrier-free accessibility.





dormakaba USA quality and environmental management systems in Reamstown, PA and Indianapolis, IN are certified to ISO 9001:2015 and ISO 14001:2015.

Pre-Fabricated Specifications for Spec Writers

- A. Surface Door Closers (specifier: include 35 year warranty in Part 1 Warranty section)
 - 1. Manufacturers; Surface Mounted:
 - a. Best by dormakaba USA, Inc.

EHD9000 Series:

or None - N/A

[https://www.bestaccess.com/products/door-closers/]

- 2. Rack and Pinion Cast Iron Surface Closers (Extra Heavy Duty)
 - a. Provide Full Rack and Pinion type closer constructed of one-piece cast iron, or equal, to exceed the ANSI/BHMA A156.4 Grade 1 requirements.
 - b. Provide closers tested and approved for UL10C for positive pressure; UL228 &CAN/ULC-S133.
 - c. Provide closers that conform to ANSI/ICC A117.1 and ADA requirements for barrier-free accessibility.
 - d. Closer shall be available with heavy-duty arms and knuckles/elbows
 - e. Closer shall have maximum 2 1/4 inch case projection with non-ferrous cover.
 - 1) Closer cover to be:
 - a) Plastic (default)
 - b) Metal
 - c) Lead Lined
 - 2) Closer cover finish to be:
 - a) Painted
 - b) Plated
 - c) RAL Custom Color Powder Coated
 - f. Provide closers with all-weather hydraulic fluid.
 - g. Provide closers with separate adjusting valves for closing and latching speeds, as well as advanced variable backcheck and delayed action.
 - h.
 - I. Provide closers with Delayed Action and/or Advanced Variable Backcheck where noted in hardware sets II. Provide closers with backcheck positioning & DA valve
 - i. Provide adapter plates, shim spacers and blade stop spacers as required by frame and door conditions.
 - j. Mount closers on non-public side of door and stair side of stair doors, unless otherwise noted in hardware sets.
 - k. Closers shall be non-handed and multi-sized as noted in hardware sets. When specific sized closers are required provide: Size 1 through 6 - +50% power over size 6 to meet barrierfree ADA and PT4C requirements
- 3. Rack and Pinion Cast Iron Surface Closers (Extra Heavy Duty)
 - a. Provide Full Rack and Pinion type closer constructed of one-piece cast iron, or equal, to exceed the ANSI/BHMA A156.4 Grade 1 requirements.
 - b. Provide closers tested and approved for UL10C for positive pressure; UL228 &CAN/ULC-S133.

- c. Provide closers that conform to ANSI/ICC A117.1 and ADA requirements for barrier-free accessibility.
- d. Closer shall be available with heavy-duty arms and knuckles/elbows
- e. Closer shall have maximum 2 1/4 inch case projection with non-ferrous cover.
 - 1) Closer cover to be:
 - a) Plastic (default)
 - b) Metal
 - c) Lead Lined
 - 2) Closer cover finish to be:
 - a) Painted
 - b) Plated
 - c) RAL Custom Color Powder Coated
- f. Provide closers with all-weather hydraulic fluid.
- g. Provide closers with separate adjusting valves for closing and latching speeds, as well as advanced variable backcheck and delayed action.
- h.
 - I. Provide closers with Delayed Action and/or Advanced Variable Backcheck where noted in hardware sets II. Provide closers with backcheck positioning & DA valve
- i. Provide adapter plates, shim spacers and blade stop spacers as required by frame and door conditions.
- j. Mount closers on non-public side of door and stair side of stair doors, unless otherwise noted in hardware sets.
- k. Closers shall be non-handed and multi-sized as noted in hardware sets. Provide closers fully adjustable to Sizes I through 6 - +50% power over size 6 to meet barrier- free ADA requirements.
- 4. Rack and Pinion Cast Iron Surface Closers
 - a. Provide Full Rack and Pinion type closer constructed of one-piece cast iron, or equal, to meet the ANSI/BHMA A156.4 Grade 1 requirements.
 - b. Provide closers tested and approved for UL10C for positive pressure; UL228 &CAN/ULC-S133.
 - c. Provide closers that conform to ANSI/ICC A117.1 and ADA requirements for barrier-free accessibility.
 - d. Closer shall be available with heavy-duty arms and knuckles/elbows
 - e. Closer shall have maximum 2 1/4 inch case projection with non-ferrous cover.

Optional Specification Writings: (for spec writers)

1) Closer cover to be:

Plastic with dual clamp mechanism on both sides of the cover (default). Adjustment of closing speed, latching speed, backcheck, advanced variable backcheck, optional delayed action and spring force to be made from the front.

Visual spring size indicator readable from the front.

- 2) Closer cover finish to be:
 - a) Painted
 - b) RAL Custom Color Powder Coated
- f. Provide closers with all-weather hydraulic fluid.

g. Provide closers with separate adjusting valves for closing and latching speeds, as well as backcheck and delayed action.

Optional Specification Writings: (for spec writers) cont.

- h.
 - I. Provide closers with Delayed Action and/or Advanced Backcheck where noted in hardware sets II. Provide closers with backcheck positioning & DA valve
- i. Provide adapter plates, shim spacers and blade stop spacers as required by frame and door conditions.
- j. Mount closers on non-public side of door and stair side of stair doors, unless otherwise noted in hardware sets.
- k. Closers shall be non-handed and multi-sized as noted in hardware sets. When specific sized closers are required provide: Sizes 1 through 6 - +50% power over size 6 to meet ADA and PT4C requirements

Finishes (Painted)		Finishes (Plated)		
600	Primed	605	Polished brass	
689	Aluminum (Standard)	606	Satin brass	
690	Statuary bronze	611	Polished bronze	
691	Dull bronze	612	Satin bronze	
693	Black	613	Oxidized satin oil-rub bronze	
695	Dark duranodic bronze	618	Polished nickel	
696	Gold	619	Satin nickel	
Custom Color (RAL color) Designer color match		625	Polished chrome	
		626	Satin chrome	
		630	Satin stainless	

Warranty

For details, refer to BEST Warranty Policy on our website at https://www.bestaccess.com/products/door-closers/.

REDUCED OPENING FORCE INSTALLATIONS CAUTION: Manual door closers, including those certified to meet ANSI/ BHMA A156.4, when installed and adjusted to conform to ADA or other reduced opening force requirements, may not provide sufficient power to reliably close and latch a door.

Refer to catalog for Low Energy Operator to meet reduced opening force requirements without affecting closing power.

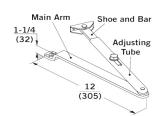
* Meets 5 lb maximum opening force on 3'-0" wide interior doors.

EHD9000 **Features** 1-6 (w+50% pwr) Spring sizes Non-handed Standard Full line of specialty function arms and plates Standard AVB Backcheck positioning adjustment (POS) 180°-15° Controlled closing with two adjustment valves 15°-0° Backcheck Standard Delayed action Optional Hold Open Optional Self-drilling & Self-tapping screws Standard Tamper-resistant TORX screws Optional Full plastic cover Standard Full metal cover Optional Lead-lined metal cover Optional

How to Order (EHD9000 Series)

EHD90	16		AF90P	Specify			Specify	Specify	689	
Model	Spring	Body Option	Arm	Accessory Brackets	Cover Options	Fasteners	Accessory Plates		Available Finish	
EHD90	16 Adjustable size 1-6 +50% power over size 6 to meet PT4C and barrier- free ADA requirements	Standard select is AVB (Advanced	AF90P, AF90J, AF90, FH90, FHP90, FHJ90, PH90, PHP90, DS90, DST90, SDS90, SDST90, IS90, ISH90, SIS90, SISH90, ISJ90, ISJH90, SISJ90, SISJH90, SPA90, SPAT90, T90, FT90, JT90, PT90, TDE90L, TDE90R, TH90, FTH90, JTH90, PTH90, TDEH90L, TDEH90R, LA	PHB90, MJ90,	MC90 - Metal LL90 - Lead lined Standard select is PC90 (plastic)	TX90 - Torx security screws Standard select is SNDTPK90 (Self-drilling & tapping, thru bolts 1-3/4" door with machine screws)	BP90 DB90	AB90, NFHD90, FTHD90, BSHD90, BSNFHD90		Plated: 605 Polished brass 606 Satin brass 611 Polished bronze 612 Satin bronze 613 Oxidized satin oil-rubbed bronze 618 Polished nickel 619 Satin nickel 625 Polished chror 626 Satin chrome 630 Satin stainless
Arm Op	otion	Descrip	tion							
AF90P		Standar	rd flat form arm, tri-pa	-k						
AF90J			b flat form arm for 4–							
AF90			or top jamb flat form a		eveals					
FH90			hold open arm		0.000.0					
FHP90			hold open arm, tri-pac	k						
FHJ90			b friction hold open arr		eal					
PH90			/Top jamb plunger hold							
PHP90			Top jamb plunger hold							
DS90		Heavy d	uty parallel arm with s	top						
DST90		Heavy d	uty parallel arm with h	old open and st	top					
SDS90		Heavy d	uty parallel arm with c	ompression st	ор					
SDST90	0	Heavy d	uty parallel arm with h	old open and c	ompression sto	р				
IS90		Heavy d	uty regular/top jamb a	arm with stop						
ISH90		Heavy d	uty regular/top jamb a	arm with hold o	pen and stop					
SIS90		Heavy d	uty regular/top jamb a	arm with comp	ression stop					
SISH90)	Heavy d	uty regular/top jamb a	arm with hold o	pen and compr	ression stop				
ISJ90		Heavy d	uty top jamb arm with	stop for 3-1/2"	–6-1/2" reveal					
ISJH90		Heavy d	uty top jamb arm with	hold open and	stop for 3-1/2"-	-6-1/2" reveal				
SISJ90		Heavy d	uty top jamb arm with	compression s	stop for 3-1/2"–	6-1/2" reveal				
SISJH90	0	Heavy d	uty top jamb arm with	hold open and	compression s	top for 3-1/2"–	6-1/2" reveal			
SPA90		Heavy d	uty parallel arm							
SPAT90)	Heavy d	uty parallel arm with tl	numb-turn hold	d open					
T90		Track ar	rm, pull side door moui	nted						
FT90		Flush tra	ack arm, push side tra	nsom mounted	l					
JT90		Jamb tra	ack, pull side frame mo	unted						
PT90		Push tra	ack arm, push side sof	it mounted						
TDE90L			rm double egress, pull							
TDE90F	R		rm double egress, pull		_	nded				
TH90			rm with hold open, pull							
FTH90			ack arm with hold oper							
JTH90			ack with hold open, pull							
PTH90			ack arm with hold oper							
TDEH90			rm with hold open doul	-						
TDEH90	OR	Track ar	rm with hold open doul	ole egress, pull	side frame mo	unted, right har	nded			
Eneter	ana									
Fasten										
SNDTF	PK90 Stand	ard self-drillin	ng, self tapping and Se	x Nuts for stee	l or aluminum	door and fram	ne application	s (replacemen	t pack)	
TX90	Torxs	ecurity screv	/S						·	

Arms

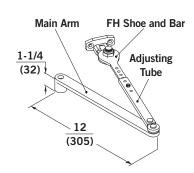


Flat Form Arm

AF90P — Parallel flat form arm complete (Tri-Pack) (0" - 4" (0 mm -102 mm) reveal). P90 included.

AF90J – Top jamp flat form arm complete (4" - 8" [102 mm to 203 mm] reveal).

AF90 – Regular or top jamb flat form arm for to 4" [102 mm] reveals.



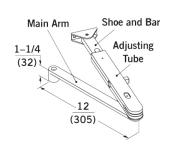
Friction Hold Open Arm

Provides a hold open function between approximately 90° and 180° of door opening (conditions permitting). Arm is non-handed.

FH90 - Friction hold open arm complete (0"-4" [0 mm- 102 mm] reveal).

FHJ90 - Friction hold open arm complete (4"-8" [102 mm-203 mm] reveal).

FHP90 - Friction hold open arm complete (Tri-Pack) (0"-4" [0 mm-102 mm] reveal). PHB included.

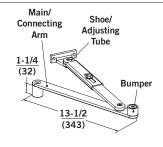


Plunger Hold Open Arm

Provides a hold open function at a selected point within a range from approximately 30°-150° (conditions and installation applications permitting). Ideal for doors frequently placed in and out of hold open. Arm is non-handed.

PH90 — Plunger hold open arm complete regular or top jamb mount (0" -1-1/2" [0 mm - 38 mm] reveal).

PHP90 - Plunger hold open arm complete parallel arm or top jamb mount (1-1/2" -3-1/2" [38 mm -89 mml reveal).



Cushion IS Arm

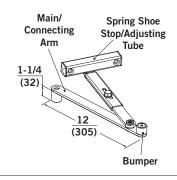
Provides a cushioned opening function for regular and top jamb applications at 85°, 90°, 95°. 100°, 105°, and 110°. Arm is non-handed.

IS90 – Cushion IS arm complete (0"– 3-1/2" [0 mm–89 mm] reveal).

ISJ90 – Cushion IS top jamb arm complete (3-1/2"–6-1/2" [89 mm–165 mm] reveal).

ISH90 – Cushion IS hold open arm complete (0"–3-1/2" [0–89 mm] reveal).

ISJH90 — Cushion IS top jamb hold open arm complete. (3-1/2"-6-1/2" [89 mm-165 mm] reveal).



Spring Stop IS Arm

Provides a spring assisted dead stop function for regular and top jamb applications at 85°, 90°, 100°, and 110°. Arm is non-handed.

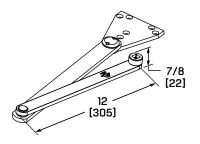
SIS90 - Spring stop IS arm complete (0"-3-1/2" [0 mm-89 mm] reveal).

SISH90 - Spring stop IS hold open arm complete (0"-3-1/2" [0 mm-89 mm] reveal).

SISJ90 - Spring stop IS top jamb arm complete (3-1/2"-6-1/2" [89 mm-165 mm] reveal).

SISJH90 – Spring stop IS top jamb hold open arm complete (3-1/2"-6-1/2" [89 mm-165 mm] reveal).

NOTES: All combinations of features and options are not available for all models. To simplify initial installation, a range of back plates (BP90), drop plates (DP90), brackets, and spacers are available. Refer to Accessories section for details

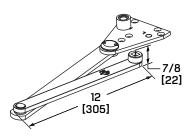


Super Parallel Arm

Heavy-duty parallel arm. Available in non-hold open and thumb turn hold open. Units can be installed for maximum opening of 100° or 180°. Hold open units will hold open at 90° or 125°. Maximum opening is 180° (permitting). Arm is non-handed. Non-hold open arm illustrated.

SPA90 - Super parallel arm non-hold open.

SPAT90 - Super parallel arm thumb turn hold open.

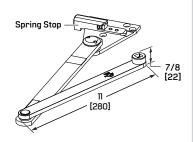


Door Saver Arm

Heavy-duty parallel arm with integral cushioned opening function. Available in non-hold open, thumb turn hold open, and hex key turn hold open. Units can be installed to achieve either stop or stop and hold open at 85°, 90°, 100°, and 110°. Maximum opening is 110° (conditions permitting). Arm is non-handed. Non-hold open arm illustrated.

DS90 – Door saver arm non-hold open.

DST90 – Door saver arm thumb turn hold open.

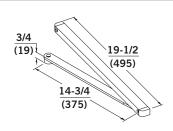


Spring Stop Door Saver Arm

Heavy-duty parallel arm with spring assisted dead stop function. Available in non-hold open and thumb turn hold open. Units can be installed to achieve either stop at 85°, 90°, 100°, and 110° or stop and hold open function. Maximum opening is 110° (conditions permitting). Arm is non-handed. Non-hold open arm illustrated.

SDS90 – Spring stop door saver arm.

SDST90 - Spring stop door saver arm thumb turn hold open.



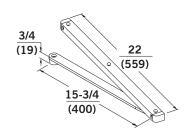
Track Arm

Provides slide track function for improved aesthetics and vandal resistance. Units can be installed to provide 85° , 90° , 110° , or 180° of door opening (conditions and application permitting). Arm is non-handed.

T90 — Track arm complete. Can be used on pull-side T applications (closer on door, track on frame) and JT applications (track on frame, closer on door). Can also be used with FT90 flush transom applications (closer on transom, track on door).

TH90 – Track hold open arm complete. Can be used in same applications as T90 arm. Range of hold open and maximum opening varies with mounting application.

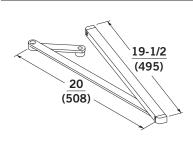
Arms



Push Side Track Arm

PT90 - Push-side track arm complete. Used with PT90 track applications (closer on door, track on soffit).

PTH90 - Push-side track hold open arm complete. Used with PT90 track applications (closer on door, track on soffit).



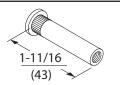
TDE Track Arm

Provides slide track function for pull-side reveal conditions up to 3-1/2". Provides 117° of door opening (conditions permitting). Arm is handed. Also available with hold open option to provide selective single point hold open between 30° and 110°.

Arm requires a minimum 3-3/4" clearance between door face and wall when opened 90° and greater.

TDE90L/R - Double egress track arm complete.

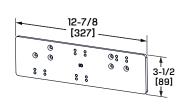
TDEH90L/R - Double egress hold open track arm complete.



Sex Nuts (Included in SNDTPK90)

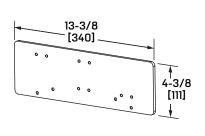
Machine screws for 1-3/4" (44 mm) door

Required for use on unreinforced doors and wood or composite labeled fire doors for securely attaching hardware to the door.



Backplate

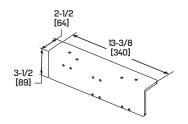
BP90 – For mounting top jamb when frame face is less than 2-7/8" (73 mm). Two sets of mounting holes accommodate 1-3/4" (44 mm) or 3-1/4" (83 mm) minimum ceiling clearance.* Top set of holes create top jamb drop application to clear a surface applied stop/holder. Can also be used for regular mount to clear a mortised overhead stop/holder



Drop Plate

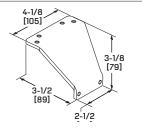
DP90 - For parallel arm installation when top door rail is less than 5-3/4" (146 mm) for non-hold open and plunger hold open. When top door rail is less than 6" (152 mm) for friction applications (assuming 5/8" (16 mm) stop dimension).

Accessories & Backplates



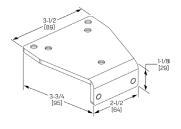
Angle Bracket

AB90 — For installation of closers where parallel arm and top jamb applications are not practical due to low overhead ceiling clearance, narrow frame face or unusual trim conditions. This bracket can also be used to provide clearance for a surface-applied stop/holder.



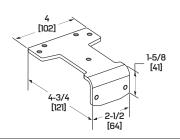
Parallel Drop Bracket

PD90— For non-hold open parallel arm applications to clear a surface-applied stop/holder.



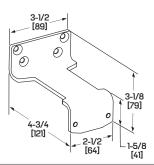
Parallel Arm Bracket

P90 – Furnished standard with EHD9000 series non-hold open parallel arm applications.



Parallel Hold Open Bracket

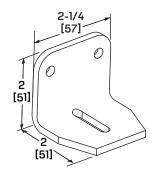
PHB90 – Furnished standard friction hold open parallel arm applications.



Parallel Flush Transom Bracket

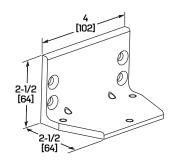
PFT90 — For all hold open and non-hold open parallel arm applications where flush transom conditions prohibit use of P60, P70, P80 or PHB bracket.

Accessories & Backplates



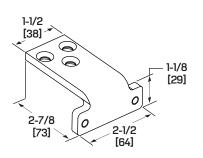
Narrow Frame Bracket

NFHD90 – For use with all DS90 and SPA90 applications where total frame depth is less than 4-1/2" (114 mm), prohibiting use of standard spacer block. NFHD90 bracket is used in lieu of block supplied with arm.



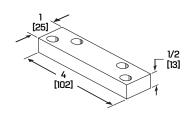
Flush Transom Bracket

FTHD90 – For use with all DS90 and SPA90 applications where flush transom conditions prohibit normal installation of soffit bracket.



Mortised Jamb Bracket

MJ90 - For closers with regular mount non-hold open assemblies, where frame conditions will not permit use of the standard foot, e.g. molded bull nose, or ornate trim. Permits use of parallel arm application between twin communicating doors where limited space prohibits use of the P90 bracket.



Heavy-Duty Blade Stop Spacer

BSHD90 – For use with all Series DS90 and SPA90 applications installed on cased frames with applied blade stops. This block is used in conjunction with the spacer furnished with the arm to provide adequate clearance for the blade stop.

Notes:

Notes:

