

JACKSON CORPORATION®

20-330 Series

Introduction

The Jackson 20-330 Series Grade 2 Overhead Concealed Closer has been the leader in the industry for over 35 years. The closer is manufactured in the U.S.A. under strict ISO 9000 guidelines and is designed to give long lasting, maintenance free performance. This closer is truly universal. One basic closer mechanism allows for single or double acting, center-hung or offset applications and is non-handed. Suitable for both interior and exterior installations, it provides complete door control in a compact and concealed design. Available in four fixed spring sizes or with adjustable spring power, making this the ideal closer for aluminum, wood or hollow metal doors and frames.

The Jackson 20-330 Series Grade 1 Closer is a certified ANSI/BHMA Grade 1 Closer. It is available in four fixed spring sizes with an optional adjustable hydraulic backcheck/stop that will provide the ultimate protection from wind or violent door swings without impeding normal traffic flow.

20-330 Series Overhead Concealed Closers



Technical Information

DIMENSIONS: All Jackson 20-330 Series Overhead Closers are the same size and fit into a 1-3/4" x 4" header.

- LENGTH: 11-5/8"
- HEIGHT: 1-1/2"
- WIDTH: 3-11/16"
- STD SPINDLE: 1/2"

ACTION: Non-Handed Design, Single or Double Acting Center-Hung or Offset Applications

For identification purposes - blue bodies are adjustable spring, brown bodies are fixed spring and black bodies are Grade 1 fixed spring

APPROXIMATE OPENING FORCE IN POUNDS

	CENTER HUNG				OFFSET SLIDE-ARM			
	2/6 X 7/0	3/0 X 7/0	3/6 X 7/0	4/0 X 7/0	2/6 X 7/0	3/0 X 7/0	3/6 X 7/0	4/0 X 7/0
Adjustable	♿	♿	♿	N/A	♿	♿	♿	♿
Extra Light Duty	6	4.5	4	N/A	8	6	5.5	5
Light Duty	10	8	6	5	14	12	10	8
Regular Duty	12	10	8	6	17	14.5	13	11
Heavy Duty	17	15	13	11	N/A	19	17	15

♿ = Adjustable opening force 5 lbs. to 8.5 lbs. for barrier-free applications for door width noted.

N/A = Application not recommended.

NOTE: Readings are in pound force required to open door and are taken at the lock stile to full degree of opening.

Options

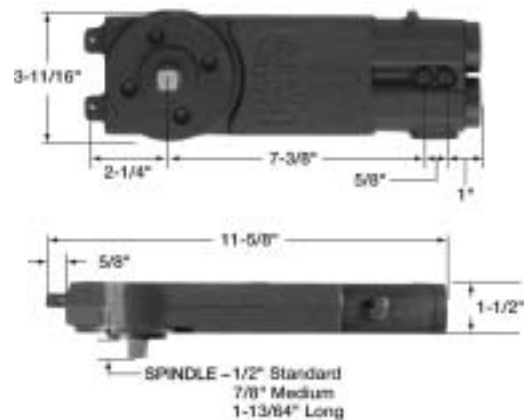
- EXTENDED LENGTH SPINDLE: 7/8" Medium length Spindle or 1-13/64" Long spindle available
- ACCESSORIES—Complete selection of arms, pivots, mounting brackets and optional accessories.

Features

- DUAL VALVE CONTROL—Both closing and latching speeds are independently adjustable.
- FOUR FIXED SPRING SIZES: Extra light duty (XLD), Light duty (LD), Regular duty (RD) and Heavy duty (HD).

Note: See the Closer Operational and Size Selector Charts to determine proper closer size for the application.

- ADJUSTABLE SPRING POWER - Size XLD (2) thru RD (4) This allows you to set an opening force which will meet Handicap Barrier-Free requirements for both interior and exterior doors in one closer.
- 90° or 105° Swing
- HOLD or NON-HOLD OPEN
- BACKCHECK - Cushion back-stop provides cushion stop to protect both the closer and opening from damage.



Closer Selection Chart

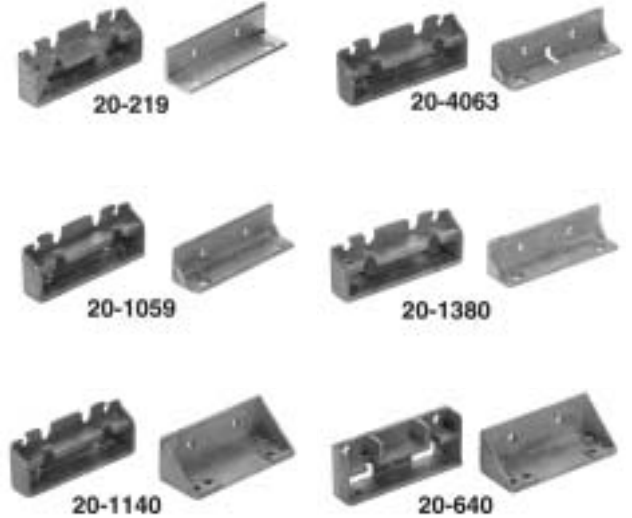
CLOSER	MAXIMUM INTERIOR DOOR	MAXIMUM EXTERIOR DOOR
Adjustable HC	3'-6"	3'-0"
Extra Light Duty	3'-0"	2'-6"
Light Duty	3'-6"	3'-0"
Regular Duty	3'-6"	3'-0"
Heavy Duty	4'-0"	3'-6"

Notes: All recommendations are based on average conditions. Tall doors or doors that may be subjected to wind, draft, or extreme air conditioning may require the next size closer. Although the adjustable spring power closer can be adjusted to compensate for site conditions, adequate closing force may not be obtained while complying with barrier free opening force restrictions.

An auxiliary floor or overhead door stop is always recommended to prevent structural interference and possible door and closer damage due to over-extension of maximum allowable door swing.

Spring power adjustment data. Closer leaves factory set at size LD for a 3'-0" door. To change opening force 1 size takes approximately 4 turns—Clockwise to increase—Counter-clockwise to decrease

Closer Mounting Kits



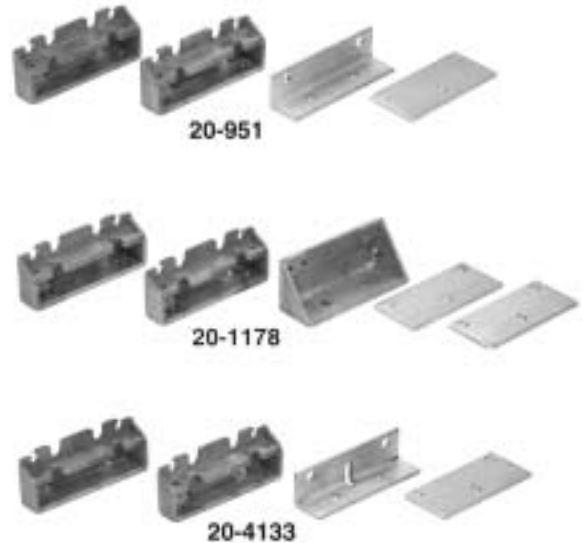
How to Order:

20 - 1 0 1 - M - 01 ←

NO.	SWING	FUNCTION	SIZE
01	= 105°	NH	RD
02	= 105°	HO	RD
03	= 90°	NH	RD
04	= 90°	HO	RD
05	= 105°	NH	LD
06	= 105°	HO	LD
07	= 90°	NH	LD
08	= 90°	HO	LD
09	= 105°	NH	HD
10	= 105°	HO	HD
11	= 90°	NH	HD
12	= 90°	HO	HD
13	= 105°	NH	XLD
14	= 105°	HO	XLD
15	= 90°	NH	XLD
16	= 90°	HO	XLD
17	= 105°	NH	ADJ
18	= 105°	HO	ADJ
19	= 90°	NH	ADJ
20	= 90°	HO	ADJ

→ PACKAGE TYPE: M = 20-330 Closer Mechanism Only.
 → SPINDLE TYPE: 1 = 1/2" Standard Length. 4 = 7/8" Medium Length. 6 = 1-13/64" Long Spindle.
 → CLOSER TYPE: 0 = Standard
 → APPLICATION: 1 = Overhead Center-Hung Mechanism Only
 → PRODUCT GROUP: 21 = Complete Closer Package

Offset Applications



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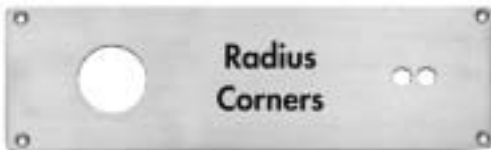
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20-330 Series

Offset Applications (continued)



Cover Plates



20-1103 - 2-3/4" x 12-1/2"

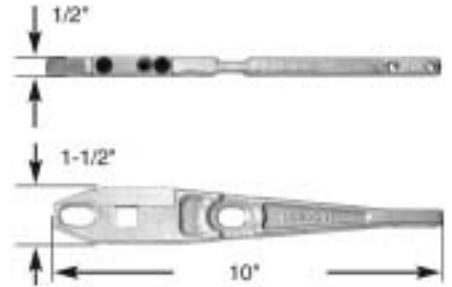


20-190 - 3-11/16" x 13-3/4"
20-1552 - 4-1/4" x 14"

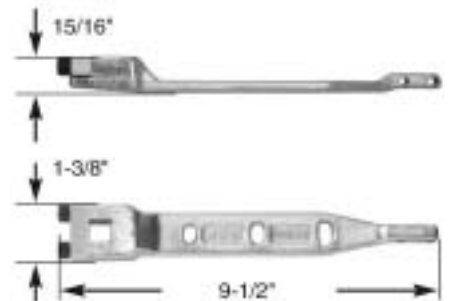
Available in Dark Bronze (313) or Satin Aluminum (628) finishes.

Center-Hung Arms (for aluminum doors)

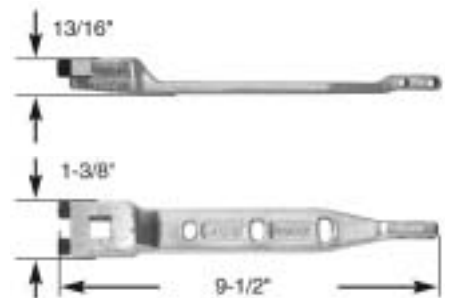
No. 20-400B
Application: Side-Load
1/2" Deep Rail.
Contents: Side-Load
Arm & Arm Mounting
Pkg.



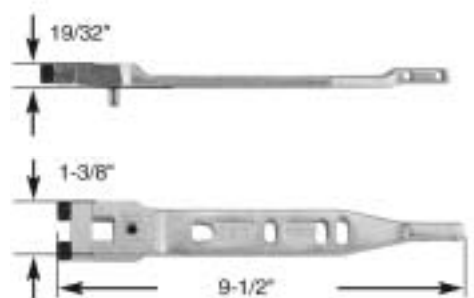
No. 20-2000
Application: End-Load
1" Deep Rail
Contents: End-Load
Arm & Arm Mounting
Pkg.



No. 20-2010
Application: End-Load
7/8" Deep Rail
Contents: End-Load
Arm & Arm Mounting
Pkg.



No. 20-2085
Application: End-Load
5/8" Deep Rail
Contents: End-Load
Arm & Arm Mounting
Pkg.

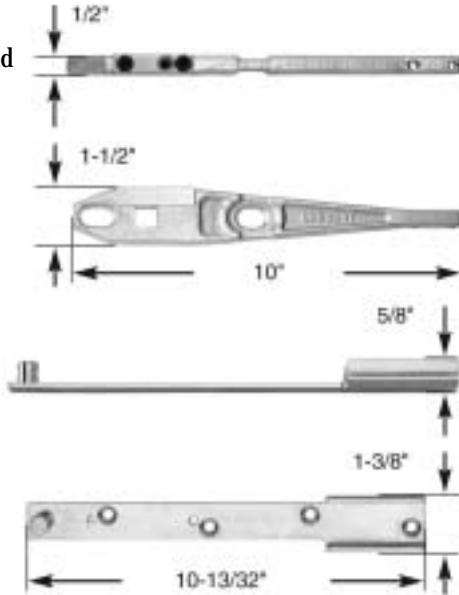


Center-Hung Arms (for wood doors)

No. 20-510

Application: End-Load
 5/8" Deep Mortised
 Rail.

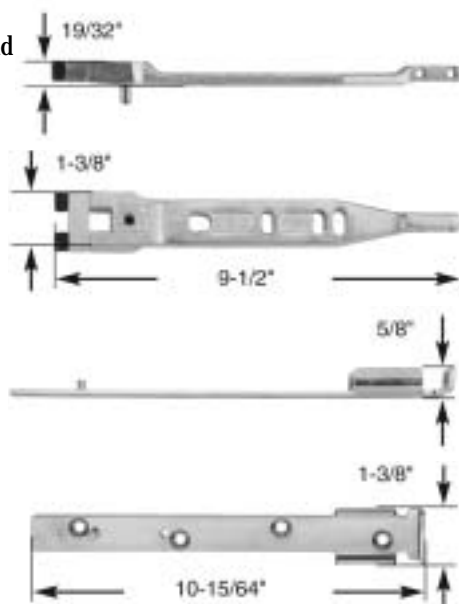
Contents: Side-Load
 Arm, Door Channel
 and Arm & Channel
 Mounting Pkg.



No. 20-2090

Application: End-Load
 3/4" Deep Mortised
 Rail.

Contents: End-Load
 Arm, Door Channel
 and Arm & Channel
 Mounting Pkg.



Offset Arm & Slide Channel Assembly

Application

- For aluminum door & frames for wood door mounting - order package No. 20-4131.

Material

- Steel

Finish

Offset arm standard painted finishes:

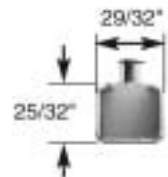
- US28/628 = Clear Satin Aluminum
- DBZ 313 = Dark Bronze

NOTE: Components for mortise and surface installations cannot be interchanged.

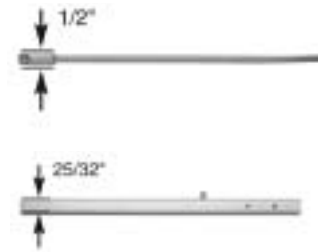
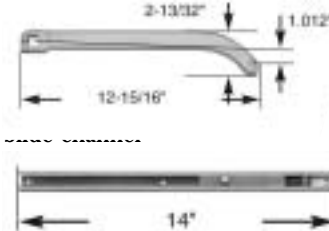
No. 20-900 - LC

Application: Mortise Type 7/8" Deep Rail

Contents: Offset arm, slide
 Channel assembly, closer mounting
 brackets & channel mounting pkg.



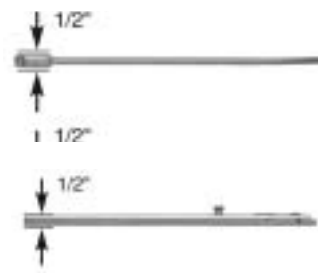
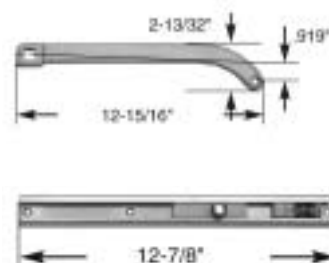
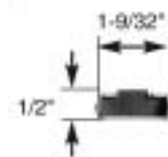
Offset arm



No. 20-1134 - LC

Application: Surface mounted 5/8" deep
 rail

Contents: Offset arm, slide
 channel assembly, closer mounting
 brackets & channel mounting pkg.



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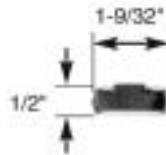
20-330 Series

Offset Arm & Slide Channel Assembly (continued)

No. 20-1312-LC

Application: Surface Mounted
5/8" Deep Rail

Contents: Offset arm, slide channel assembly, closer mounting brackets & channel mounting pkg.



Offset arm



Slide channel



Center-Hung Floor Pivots

Designed for use with Aluminum or properly prepared wood and hollow metal doors. Full ball bearing design.

Side-Load Applications

For Doors weighing up to 125 lbs.

No. 20-902 (Type G)

Height Adjustable

Application: For floor installation
For 1-1/2" Deep bottom rail



No. 20-944 (Type GE)

Height Adjustable

Application: For threshold installation
For 1-1/2" Deep bottom rail



No. 20-1155 (Type BE)

Application: For threshold installation
For 1" Deep bottom rail



END-LOAD APPLICATIONS

For Doors weighing up to 175 lbs.

No. 20-1570 (Type GW)

Application: For Floor Installation
For 1" Deep Bottom Rail



No. 20-1060 (Type P)

Application: For Floor Installation
For 1-9/16" Deep Bottom Rail



No. 20-728 (Type AE)

Application: For Threshold Installation
For 1" Deep Bottom Rail



No. 20-1410 (Type EF)

Application: For Threshold Installation
For 1-9/16" Deep Bottom Rail



No. 20-1680 (Type BV)

Application: For Combination Floor & Threshold Installation
For 1" Deep Bottom Rail



No. 20-1680 (Type UP)

Application: For Combination Floor & Threshold Installation
For 1-9/16" Deep Bottom Rail



Covers

Application:

No. 20-117 Right hand

No. 20-106 Left hand

Dimensions:

2"W x 7/8" H x 42-1/4"L

Material: Aluminum

Finish: Standard Anodized Finishes:

- US28 / 628 Clear Satin Aluminum
- DBZ 313 Dark Bronze

