chanhvinh.com



CM Cam Locks

Selection

- **Removable core options provide maximum flexibility**
- **Fixed core options provide simple, economic solutions**
- **Sealed housings are available**
- **Multiple finishes**
- **A broad selection of lock housing and cam sizes available**

Notes

All CM Cam Lock housings, cams, and lock core components can be ordered separately for maximum configuration flexibility with minimal inventory investment.
To determine the perfect CM Cam Lock components for your needs, simply follow the **Selection Guide** on the next page.

Cam Lock Options

Removable Core

- **Multiple key codes**
- **Tool actuation**
- **Change key codes in future**
- **Configure to order**



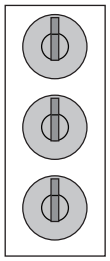




Non Sealed CM-6
Page 196

Sealed CM-3
Page 196

Key Options

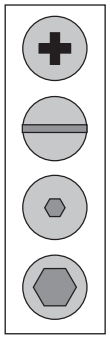


Keyed alike

Keyed differently

Master keyed, keyed differently

Tool Options



Phillips recess

Slotted

4mm Hex recess

8mm Hex recess

Fixed Core

- **Single key code**
- **Key-locking**
- **Wing driver**
- **Integrated housing and lock core**



Non Sealed CM-5
Page 197



Sealed CM-2
Page 197



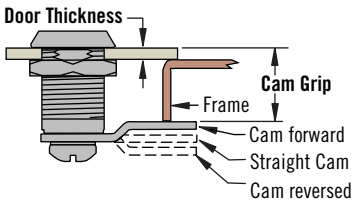
Wing Driver CM-1
Page 198

Dimensions in millimeters (inch) unless otherwise stated

chanhvinh.com

Cam Lock Selection Guide

1. Once you have determined the **CM Cam Lock** version that best meets your needs, calculate the **Cam Grip** for your application using the illustration below.



Notes: add 0.5 (.02) to your grip when using a sealed product.

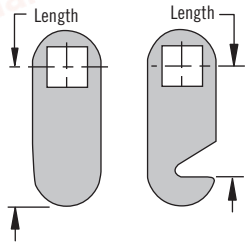
2. In the **TAN** section below, locate the **Cam Grip** calculated for your application. If your grip falls between two values, use the higher value.

Notes: Certain grip values repeat in the table below. Use the value that results in the shortest housing possible based on the **Max. Door Thickness** allowed.

3. From this value, move right horizontally into the **GRAY** section and verify your door thickness falls within the **Max. Door Thickness** listed. Once this is verified, the housing length is selected and is illustrated by the **Housing Length Number**.

4. Returning to your original grip value in the **TAN** section, move down vertically into the **GREEN** section. The **GREEN** section illustrates the cams that are appropriate for your grip.

5. By determining the required cam orientation and length in the **BLUE** section, the appropriate **Cam Part Number** for your application is selected.



6. Proceed to the Cam Lock sections (CM-6, CM-3, CM-2, CM-5, and CM-1) to complete your **Part Number** selection.

Selection Guide

Cam Grips							Max. Door Thickness	Housing Length Number
20.7 (.81)	17.5 (.69)	14.3 (.56)	11.1 (.44)	8 (.31)	4.8 (.19)	1.6 (.06)	2.4 (.09)	7
25.4 (1.00)	22.2 (.88)	19.1 (.75)	15.9 (.63)	12.7 (.50)	9.5 (.38)	6.4 (.25)	7.1 (.28)	1
31.8 (1.25)	28.6 (1.13)	25.4 (1.00)	22.2 (.88)	19.1 (.75)	15.9 (.63)	12.7 (.50)	13.5 (.53)	2
38.1 (1.50)	34.9 (1.38)	31.8 (1.25)	28.6 (1.13)	25.4 (1.00)	22.2 (.88)	19.1 (.75)	19.8 (.78)	6
44.5 (1.75)	41.3 (1.63)	38.1 (1.50)	34.9 (1.38)	31.8 (1.25)	28.6 (1.13)	25.4 (1.00)	26.2 (1.03)	3
50.8 (2.00)	47.6 (1.88)	44.5 (1.75)	41.3 (1.63)	38.1 (1.50)	34.9 (1.38)	31.8 (1.25)	32.5 (1.28)	4
57.2 (2.25)	54 (2.13)	50.8 (2.00)	47.6 (1.88)	44.5 (1.75)	41.3 (1.63)	38.1 (1.50)	38.9 (1.53)	5

Cam Part Number							Cam Length	Cam Orientation
Cam Reversed			Straight	Cam Forward				
CM-C606	CM-C406	CM-C206	CM-C006	CM-C206	CM-C406	CM-C606	19.1 (.75)	 No Hook
CM-C610	CM-C410	CM-C210	CM-C010	CM-C210	CM-C410	CM-C610	31.8 (1.25)	
CM-C614	CM-C414	CM-C214	CM-C014	CM-C214	CM-C414	CM-C614	44.5 (1.75)	
CM-L606	CM-L406	CM-L206	CM-H006	CM-H206	CM-H406	CM-H606	19.1 (.75)	 Left
CM-L610	CM-L410	CM-L210	CM-H010	CM-H210	CM-H410	CM-H610	31.8 (1.25)	
CM-L614	CM-L414	CM-L214	CM-H014	CM-H214	CM-H414	CM-H614	44.5 (1.75)	
CM-H606	CM-H406	CM-H206	CM-H006	CM-L206	CM-L406	CM-L606	19.1 (.75)	 Right
CM-H610	CM-H410	CM-H210	CM-H010	CM-L210	CM-L410	CM-L610	31.8 (1.25)	
CM-H614	CM-H414	CM-H214	CM-H014	CM-L214	CM-L414	CM-L614	44.5 (1.75)	

Also use the online configurator at www.southco.com

chanhvinh.com



CM Cam Locks

Removable core

- Ideal for applications requiring multiple key codes or tool actuated options
- Sealed version meets NEMA 4 and IP65 water intrusion standards
- Lock cores and cams sold separately
- Master and non-master key codes available

Material and Finish

Housing: Zinc alloy, chrome plated or black powder coated
Scalp: stainless steel

Performance Details

Average ultimate load on cam: 180 N (40 lbf)

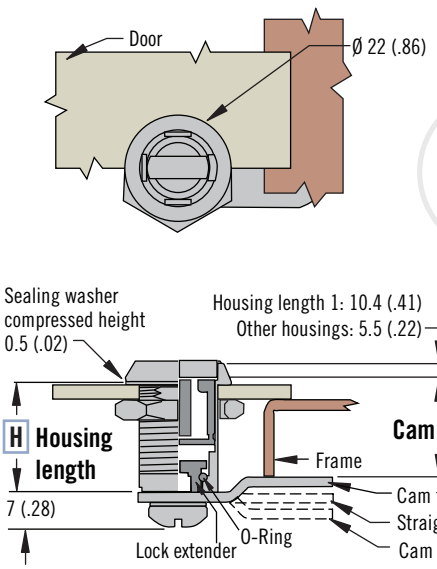
Installation Notes

See page 199

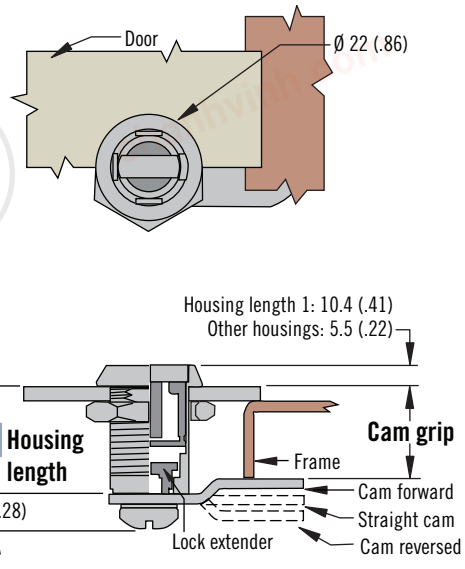
Accessories

See page 201

Sealed Disc Tumbler

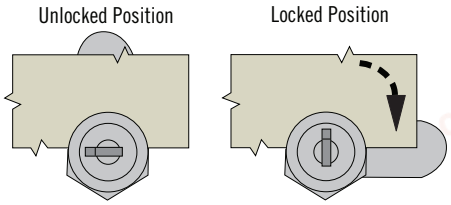


Non-Sealed Disc Tumbler

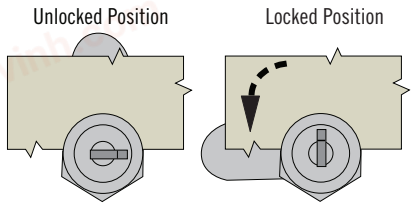


Cam Rotation

R 01 (Clockwise to Lock)



R 09 (Counter-Clockwise to Lock)



Part Number Selection

See table

Housing part number (no lock core or cam)

Order housing, lock core and cam separately

Lock core part numbers and installation see page 191

Cam page 199

To select cam part number see grip table page 195

Sealed Version

CM - 3 - H F 1 R - NUB

- **F Finish**
  - **B** Black powder coated
  - **C** Chrome plated
- **H Housing Length Number** (see table)
- **R Rotation**
  - **01** Clockwise
  - **09** Counter-clockwise

Max. Door Thickness	Housing Length	H Housing Length Number
7.1 (.28)	16 (.625)	1
13.5 (.53)	22 (.875)	2
19.8 (.78)	28.5 (1.125)	6
26.2 (1.03)	35 (1.375)	3
32.5 (1.28)	41 (1.625)	4
38.9 (1.53)	48 (1.875)	5

Non-sealed version

CM - 6 - H S4 R - NUB

(Stainless steel scalp)

Dimensions in millimeters (inch) unless otherwise stated

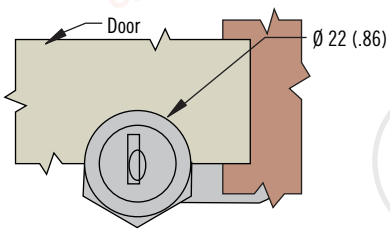
southco®

chanhvinh.com

CM Cam Locks
Fixed core

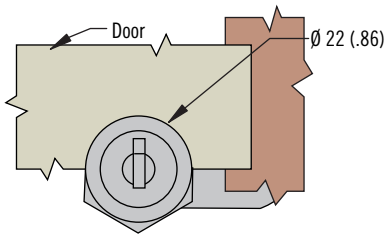


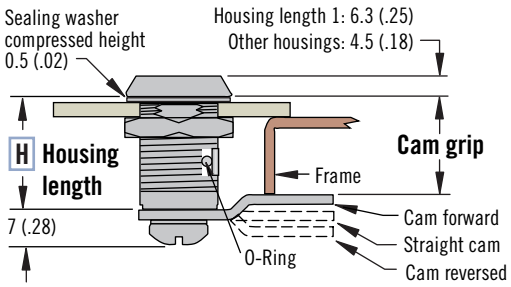
Sealed Disc Tumbler
Pictured with Lockcore Installed

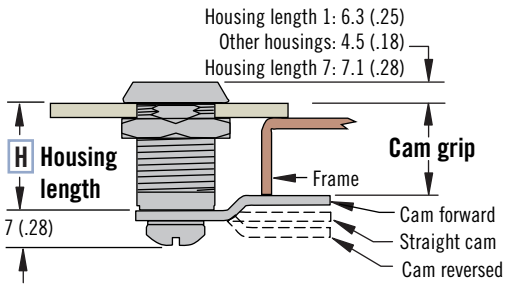


ACTUAL SIZE

Non-Sealed Disc Tumbler
Pictured with Lockcore Installed

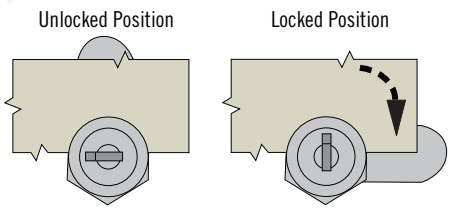




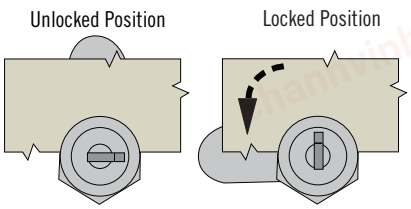


Cam Rotation

R 01 (Clockwise to Lock)



R 09 (Counter-Clockwise to Lock)



- **Stainless steel scalp on housing and lock core on non-shuttered style**
- **Sealed version meets NEMA 4 and IP65 water intrusion standards**
- **Cams sold separately**

Material and Finish
Housing: Zinc alloy, chrome plated or black powder coated
Scalp: stainless steel

Performance Details
Average ultimate load on cam: 180 N (40 lbf)

Installation Notes
See page 199

Accessories
See pages 169

Notes
Lock: Key code CH751, keyed alike, key removal in locked and unlocked positions (two keys supplied)

Part Number Selection
See table

Lock part number (no cam)
Order lock and cam separately
Cam page 199
To select cam part number see grip table page 195

Notes
CM-2-1 version is sealed but does not meet the NEMA 4 / IP65 standards

Sealed Version

CM - 2 - H F 1 R - 2SB

- **F Finish**
  - **B** Black powder coated
  - **C** Chrome plated
- **R Rotation**
  - **01** Clockwise
  - **09** Counter-clockwise

Max. Door Thickness	Housing Length	H Housing Length Number
2.4 (.09)	11 (.438)	**7 Non-Sealed Only**
7.1 (.28)	16 (.625)	1
13.5 (.53)	22 (.875)	2
19.8 (.78)	28.5 (1.125)	6
26.2 (1.03)	35 (1.375)	3
32.5 (1.28)	41 (1.625)	4
38.9 (1.53)	48 (1.875)	5

Non-sealed version

CM - 5 - H S4 R - 2TB

(Stainless steel scalp)

chanhvinh.com



CM Cam Locks

Fixed core wing driver

- **Sealed to meet NEMA 4 and IP65 water intrusion standards**
- **Smooth, consistent operation**
- **Cams sold separately**

Material and Finish

Housing: Zinc alloy, chrome plated or black powder coated

Performance Details

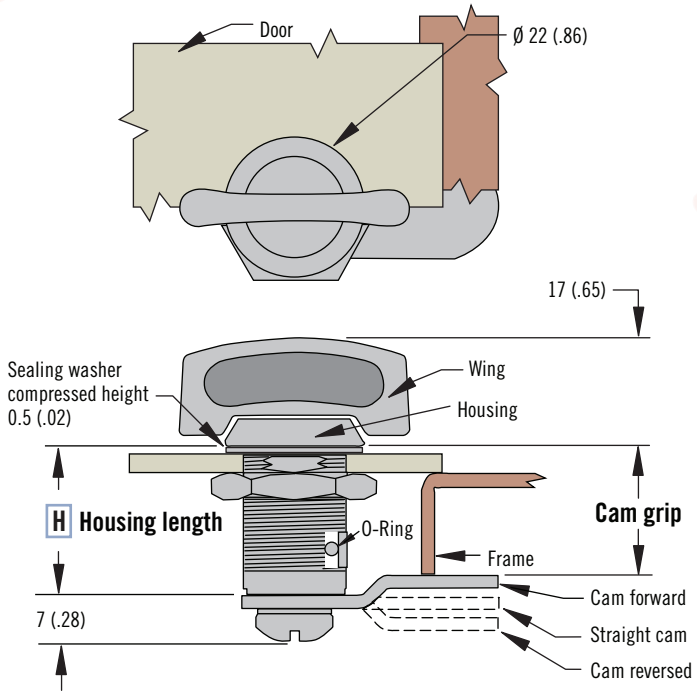
Average ultimate load on cam: 180 N (40 lbf)

Installation Notes

See page 199

Accessories

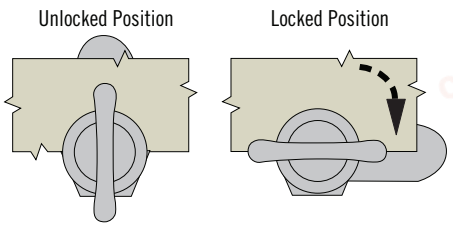
See page 201



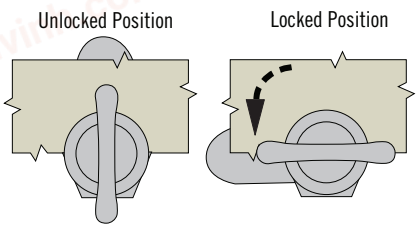
ACTUAL SIZE

Cam Rotation

R 01 (Clockwise to Lock)



R 09 (Counter-Clockwise to Lock)



Part Number Selection

See table

Lock part number (no cam)

Order lock and cam separately

Cam page 199

To select cam part number see grip table page 195

F Housing Finish
- **B** Black powder coated
- **C** Chrome plated

R Rotation
- **01** Clockwise
- **09** Counter-clockwise

W Wing Finish
- **B** Black powder coated
- **C** Chrome plated

CM - 1 - H F 1 R - 1 W

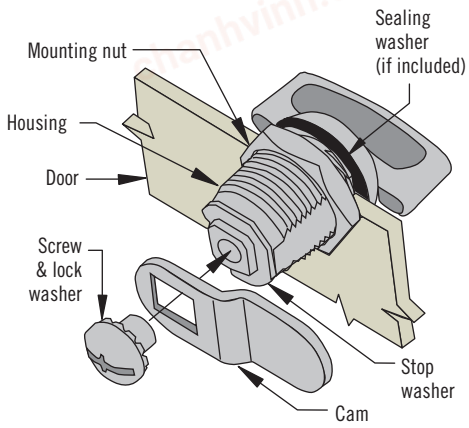
H Housing Length Number	Housing Length	Max. Door Thickness
1	16 (.625)	7.1 (.28)
2	22 (.875)	13.5 (.53)
3	35 (1.375)	26.2 (1.03)

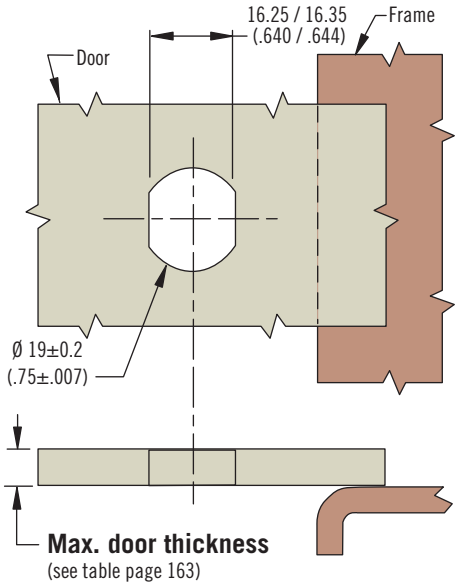
Dimensions in millimeters (inch) unless otherwise stated

chanhvinh.com

CM Cam Locks
Cams & installation

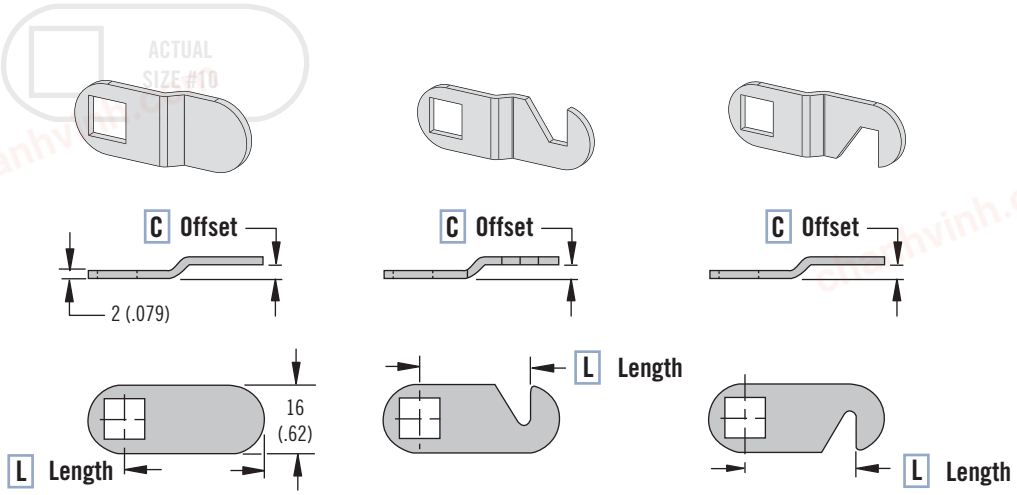






Installation Notes

1. Place sealing washer onto housing (if included) and put through the mounting hole (see panel preparation).
2. Install mounting nut and tighten to 5 N•m (44 in•lbf).
3. Install cam to assembly. Properly orientate for rotation and grip.
4. Install screw. Tighten to 4 N•m (35 in•lbf).



Material and Finish

Cam: Steel plated

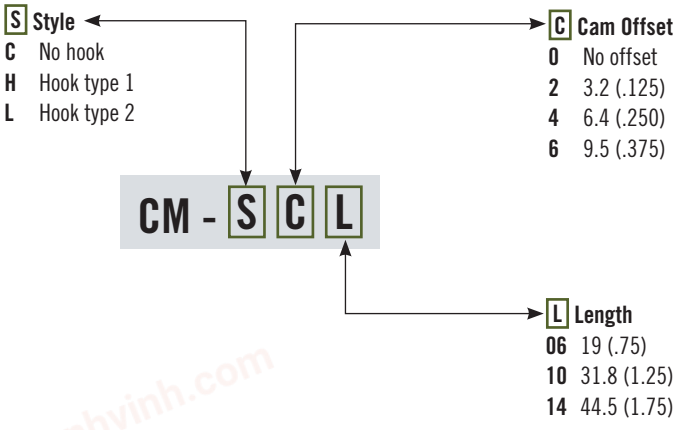
Part Number Selection

See table

Order lock and cam separately

Cam part number (no lock)

For Lock selection see pages 196-198



chanhvinh.com



CM Mini Cam Locks

Fixed core

- **Compact design**
- **Non-shuttered lock core**
- **Cams sold separately**

Material and Finish

Lock: Zinc alloy, chrome plated or black powder coated
Cam: Steel, zinc plated

Performance Details

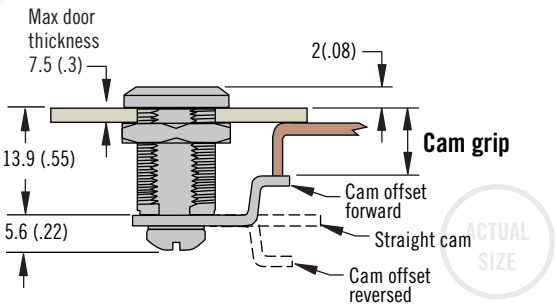
Average ultimate load on cam: 160 N (35 lbf)

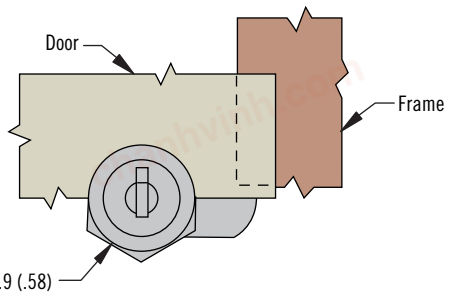
Installation Notes

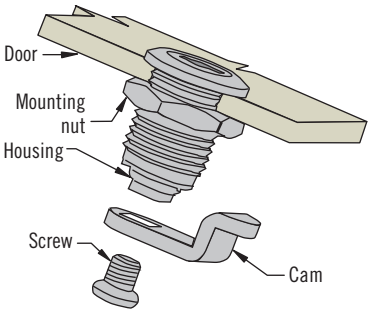
1. Install mounting nut and tighten to 4 N•m (35 in•lbf).
2. Install cam to assembly. Properly orientate for rotation and grip.
3. Install screw. Tighten to 4 N•m (35 in•lbf).

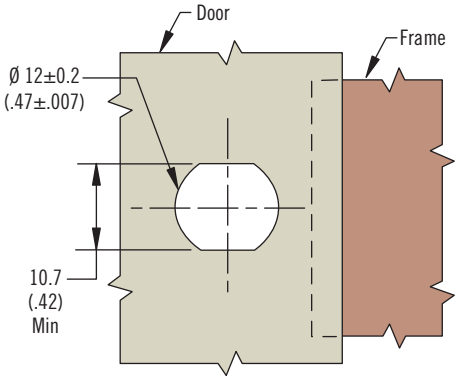
Accessories

See page 201

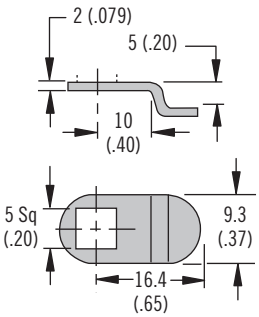




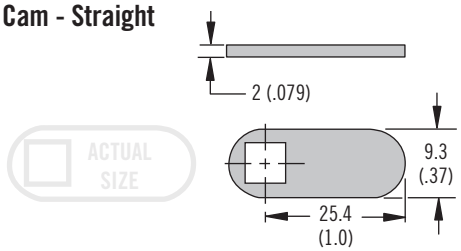




Cam - Offset



Cam - Straight



Cam Grip		
Cam Grip	**Cam Type**	**Cam Part Number**
9.7 (.38)	Offset forward	CM-M101
15.4 (.61)	Straight	CM-M002
21.3 (.84)	Offset reverse	CM-M101

Part Number Selection

Lock part number (no cam)
Order lock and cam separately
To select cam part number see grip table above

F Housing Finish
B Black powder coated
C Chrome plated

CM - 9 - 1 F 109 - S - KC

S Style
12N Wing
21B Key-locking

KC Key Code
Omit for wing style
KA Keyed alike M01 (2 keys supplied)
KD Keyed differently (10 key codes provided in a non-master key system) M01 to M10 (2 keys supplied)

Dimensions in millimeters (inch) unless otherwise stated

chanhvinh.com

CM Cam Locks

Accessories · Keys · Spares



Accessories (Add adjustment value to door thickness when accessory is used)

Metal Dust Cover



Plastic Dust Cover



Pull Tab - In-Line



Pull Tab - Perpendicular



Overmolded Key



Metal Pull Tab



Trim Washer



Prong Washer



Sealing Washer



Plain Key



Item	Part Number	Material	Adjustment Value	Suitable for		
				CM	Mini CM	PT
Metal dust cover	CM-A-10-01	Zinc alloy, chrome plated and stainless steel	0.7 (.027)	✓		✓
Plastic dust cover	90-2	Santoprene, black	2.1 (.085)	✓		✓
Pull tab - In-line	CM-A-08-01	Nylon, black	2.1 (.085)	✓		✓
Pull tab - Perpendicular	CM-A-08-02	Nylon, black	2.1 (.085)	✓		✓
Metal pull tab	CM-A-09	Stainless steel	1.5 (.059)	✓		✓
Trim washer	CM-A-07-N	Steel, nickel plated	0.8 (.031)	✓		✓
Prong washer	CM-A-04	Steel, plated	0.9 (.035)	✓		✓
Sealing washer	CM-A-03	Rubber, black	1.0 (.039)	✓		✓

Keys (contact Southco for custom overmolded logo options)

Item	Part Number	Suitable for		
		CM	Mini CM	PT
Plain key CH751 pair	PK-10-01	✓		
Overmolded key CH751 pair	PK-10-01-05	✓		
Overmolded key CH751 single	PK-10-10-05	✓		
Control (removal) key single	PK-11-03	✓		
Master key single	PK-24-01	✓		
Plain key M01 pair	PK-10-01-M01		✓	
Tubular key T0001 pair	PK-60-01-T0001			✓

Replacement Parts

Item	Part Number	Material	Suitable for		
			CM	Mini CM	PT
Housing mounting nut	CM-A-01	Zinc alloy	✓		
Housing mounting nut	PT-A-04-01				✓
Housing mounting nut	CM-B-01			✓	
Housing mounting clip	CM-A-05	Spring steel, plated	✓		
Cam mounting screw	CM-A-02	Steel, plated	✓		
Cam mounting screw	CM-B-03			✓	
Tooth washer hex nut	CM-A-12		✓		
Lockwasher	PT-A-09				✓
Cam mounting nut	PT-A-05-01				✓

Dimensions in millimeters (inch) unless otherwise stated