



شركة الدريس للصناعة والتجارة (اليتكو)
ALDREES INDUSTRIAL & TRADING CO. (ALITCO)



CONTENTS

■	EURO LOCKS	1 - 12
■	US LOCKS	13 - 24
■	EXIT DEVICE	25 - 36
■	CLOSERS	37 - 48
■	HINGES	49 - 60
■	DOOR ACCESSORIES	61 - 72



HANG THE DOOR

CLOSE THE DOOR

LOCK THE DOOR

PROTECT THE DOOR







Locks



Sash Lock

Series

Specification:

Conforms to EN12209 standard

Body : Galvanized

Backset : 45, 55 or 60mm

C.T.C. : 72 or 85mm

Face Plate : Material - Stainless Steel

Size - 23 x 234 x 3mm

Latch : Material - Stainless Steel

Projection - 12mm

Dead Bolt : Material - Stainless Steel

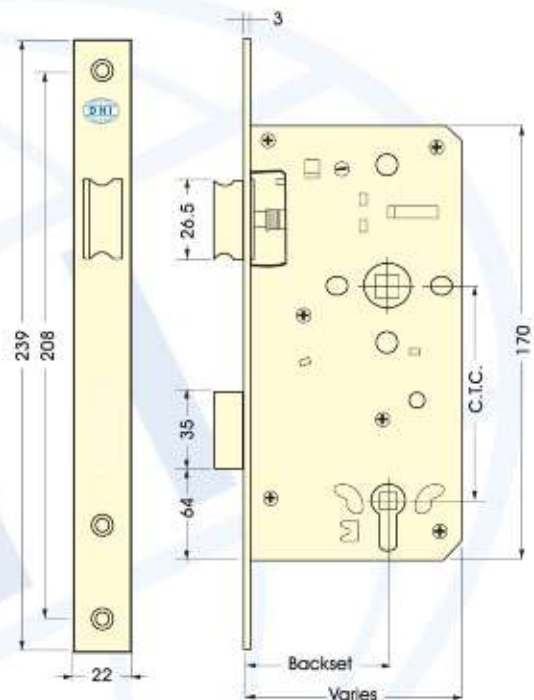
Projection - 10 + 10mm

Strike : Material - Stainless Steel

Follower : 8mm



ME06





Locks



Series



ME04

Bathroom Lock

Specification:

Conforms to EN12209 standard

Body : Galvanized

Backset : 45, 55 or 60mm

C.T.C. : 72 or 85mm

Face Plate : Material - Stainless Steel

Size - 23 x 234 x 3mm

Latch : Material - Stainless Steel

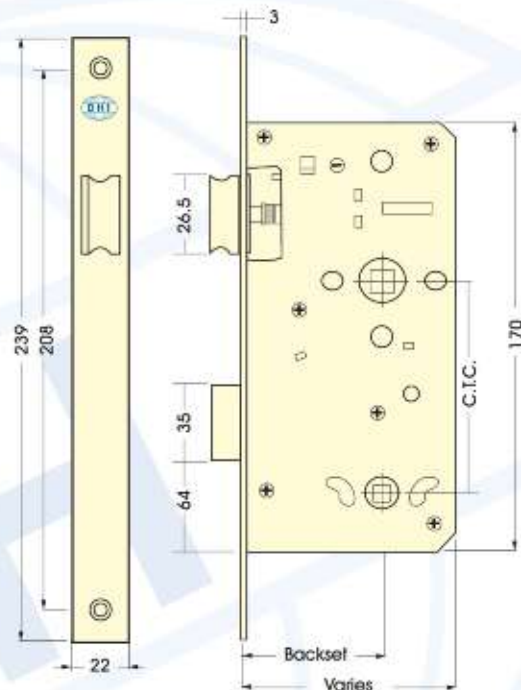
Projection - 12mm

Dead Bolt : Material - Stainless Steel

Projection - 10 + 10mm

Strike : Material - Stainless Steel

Follower : 8mm





LOCKS

Dead Lock

Specification:

Conforms to EN12209 standard

Body : Galvanized

Backset : 45, 55 or 60mm

Face Plate: Material - Stainless Steel

Size - 23 x 234 x 3mm

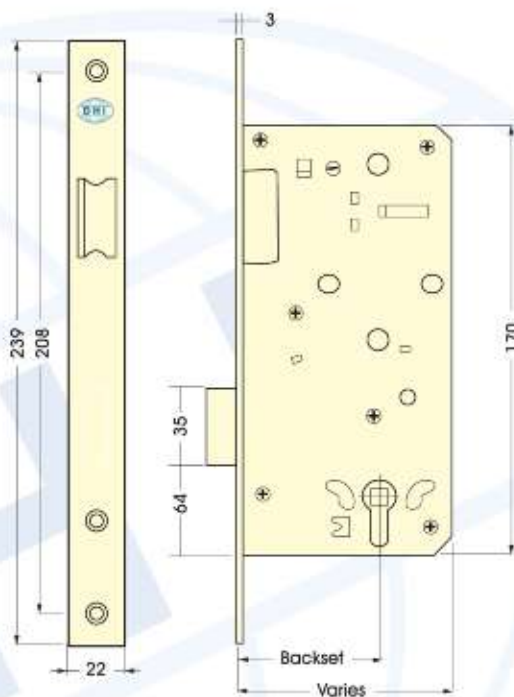
Dead Bolt : Material - Stainless Steel

Projection - 10 + 10mm

Strike : Material - Stainless Steel



ME05





LOCKS

Lach Seat

Specification:

Conforms to EN12209 standard

Body : Galvanized

Backset : 45, 55 or 60mm

Face Plate: Material - Stainless Steel

Size - 23 x 234 x 3mm

Latch : Material - Stainless Steel

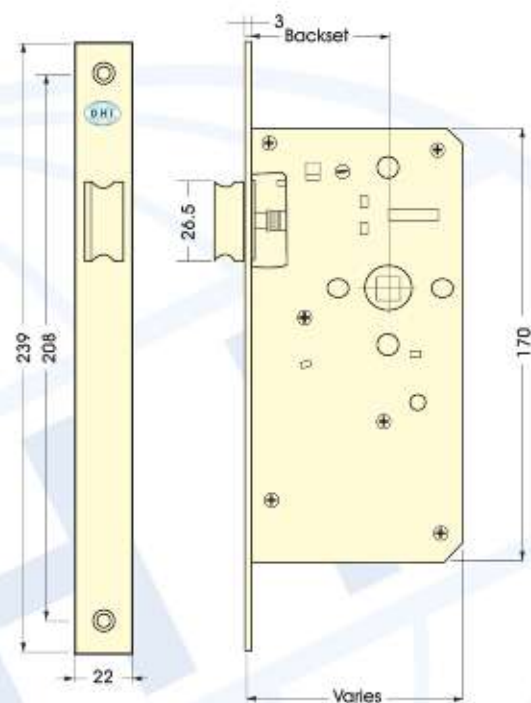
Projection - 12mm

Strike : Material - Stainless Steel

Follower : 8mm



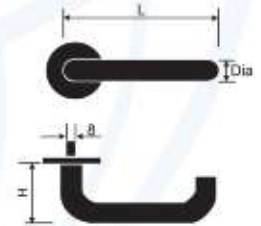
ME03





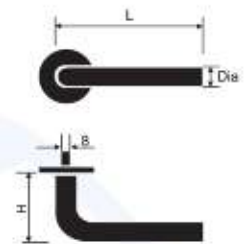
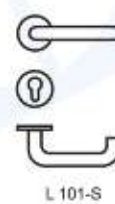
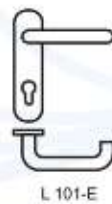
DOOR HARDWARE INTERNATIONAL

Handles



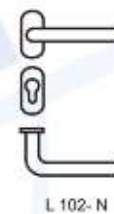
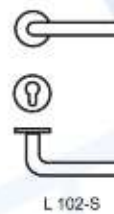
L 101

Length	130	140	145
Height	60	65	65
Diameter	16	19	22



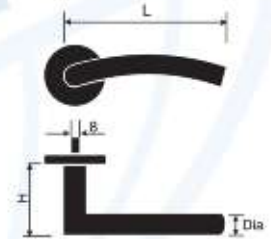
L 102

Length	130	140	145
Height	60	65	65
Diameter	16	19	22





Handles



L 103

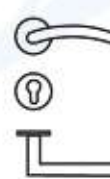
Length	130	135	140
Height	65	65	65
Diameter	16	19	22



L 103-P



L 103-E



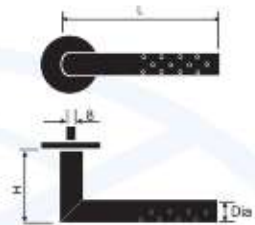
L 103-S



L 103-N

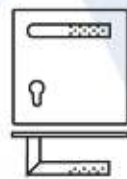


L 103-B

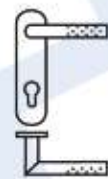


L 104

Length	130	135	140
Height	60	65	65
Diameter	16	19	22



L 123-P



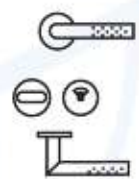
L 123-E



L 123-S



L 123-N

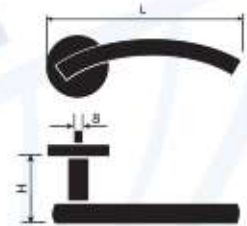


L 123-B





Handles



L 105

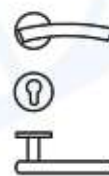
Length	130	140	145
Height	60	65	65
Diameter	16	19	22



L 105-P



L 105-E



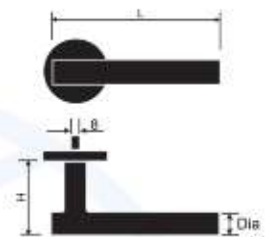
L 105-S



L 105-N



L 105-B

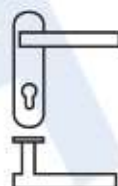


L 106

Length	130	140	145
Height	60	65	65
Diameter	16	19	22



L 106-P



L 106-E



L 106-S



L 106-N

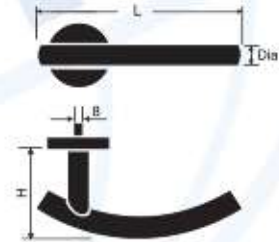


L 106-B



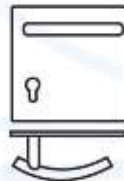


Handles

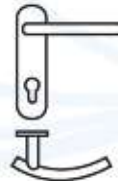


L 107

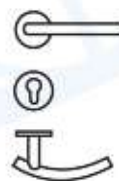
Length	130	140	145
Height	60	65	65
Diameter	16	19	22



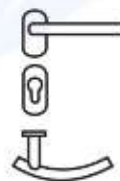
L 117-P



L 117-E



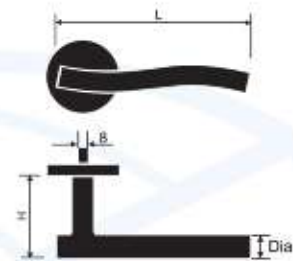
L 117-S



L 117-N



L 117-B



L 108

Length	130	140	145
Height	65	65	65
Diameter	16	19	22



L 107-P



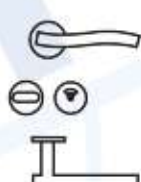
L 107-E



L 107-S



L 107-N



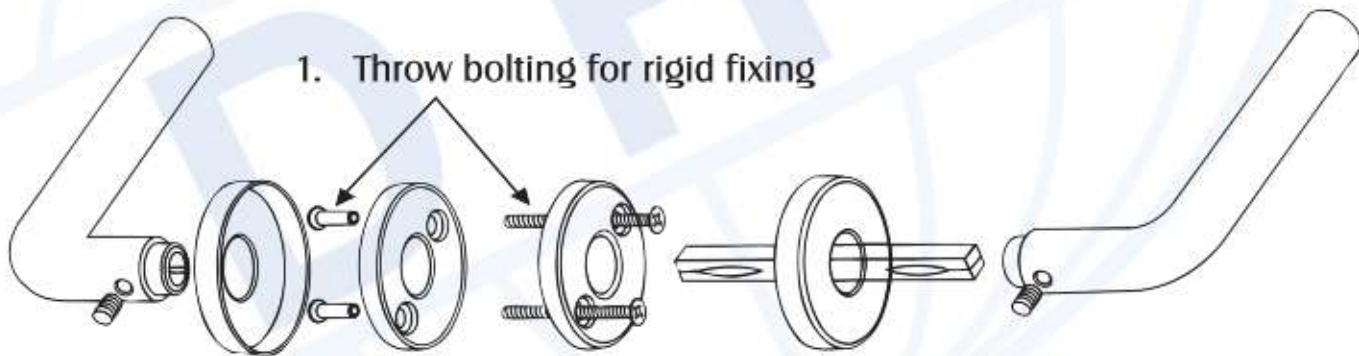
L 107-B



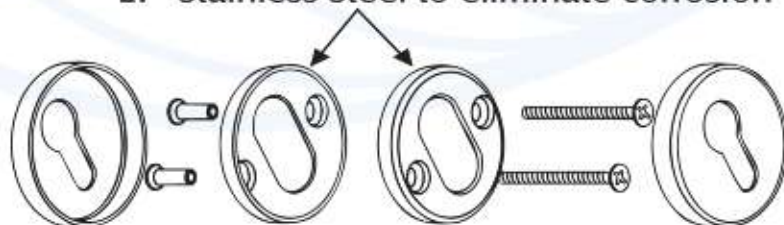


The DHI Advantage

1. Throw bolting for rigid fixing



2. Stainless Steel to eliminate corrosion



CYL 1



CYL 2



CYL 3

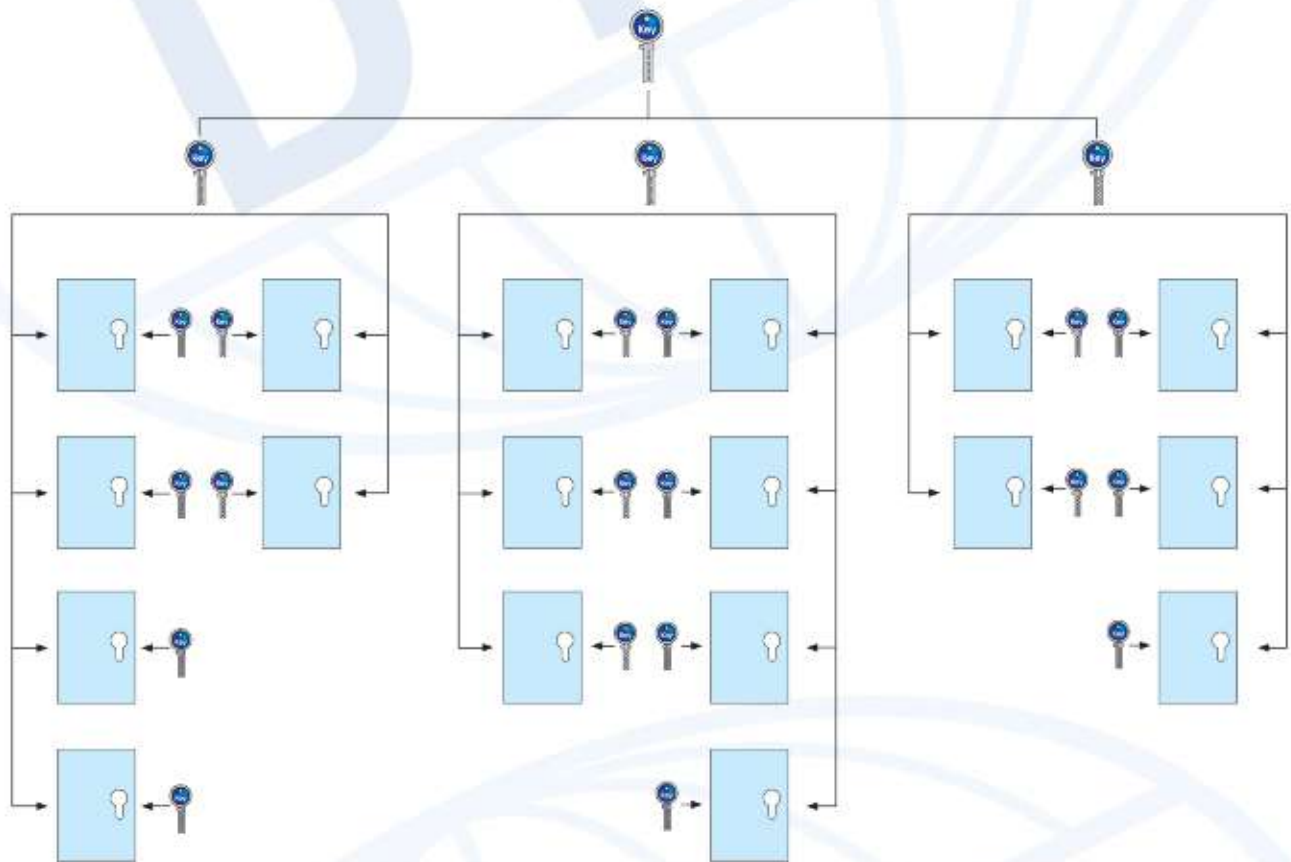


CYL 4 (bathroom)





KEYING SYSTEM



GMK: Grand Master Keyed
MK: Master Keyed
CK: Construction Keyed

CMK: Construction Master Keyed
KD: Keyed Different
KA: Keyed Alike





HANG THE DOOR

CLOSE THE DOOR

LOCK THE DOOR

PROTECT THE DOOR

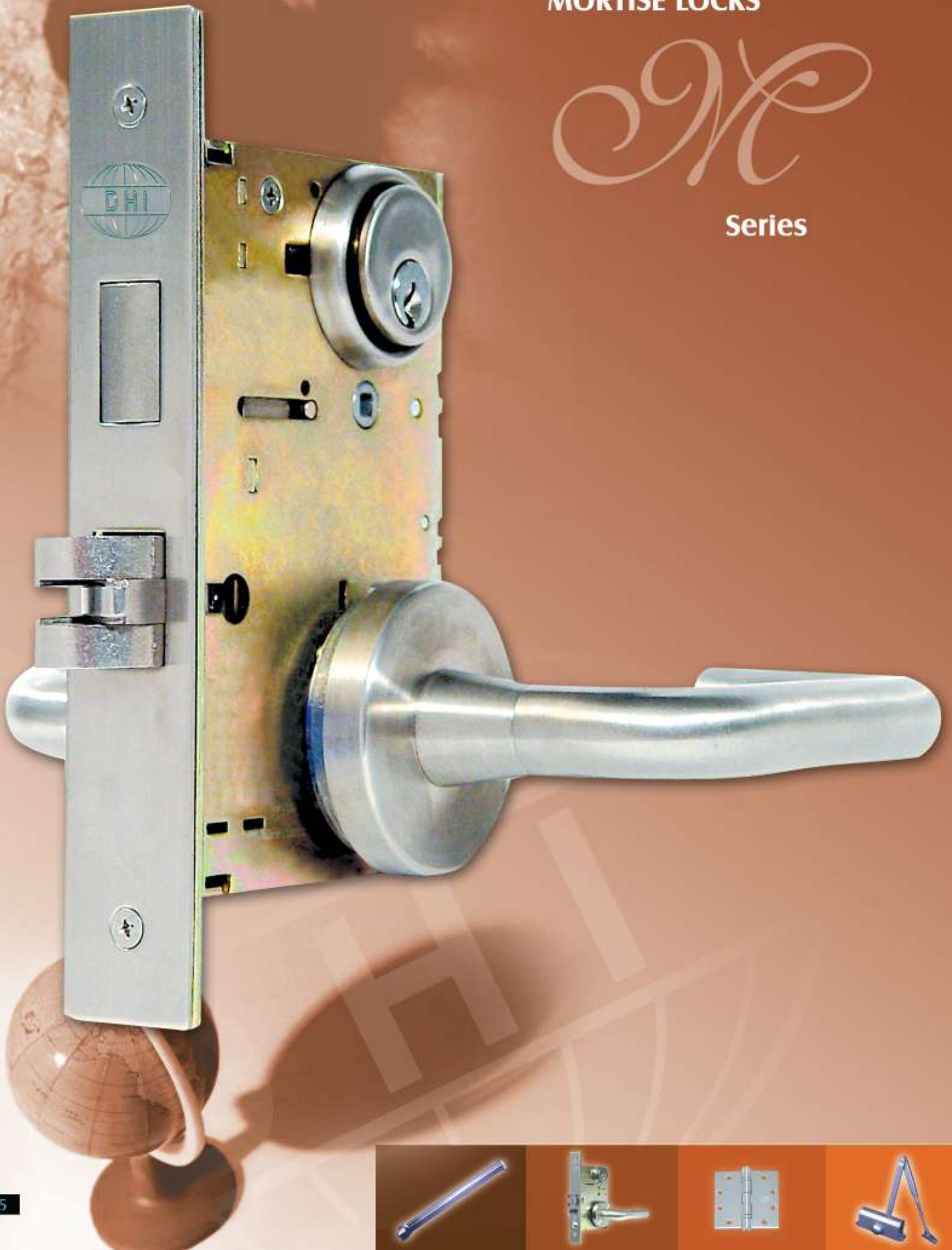




MORTISE LOCKS

M

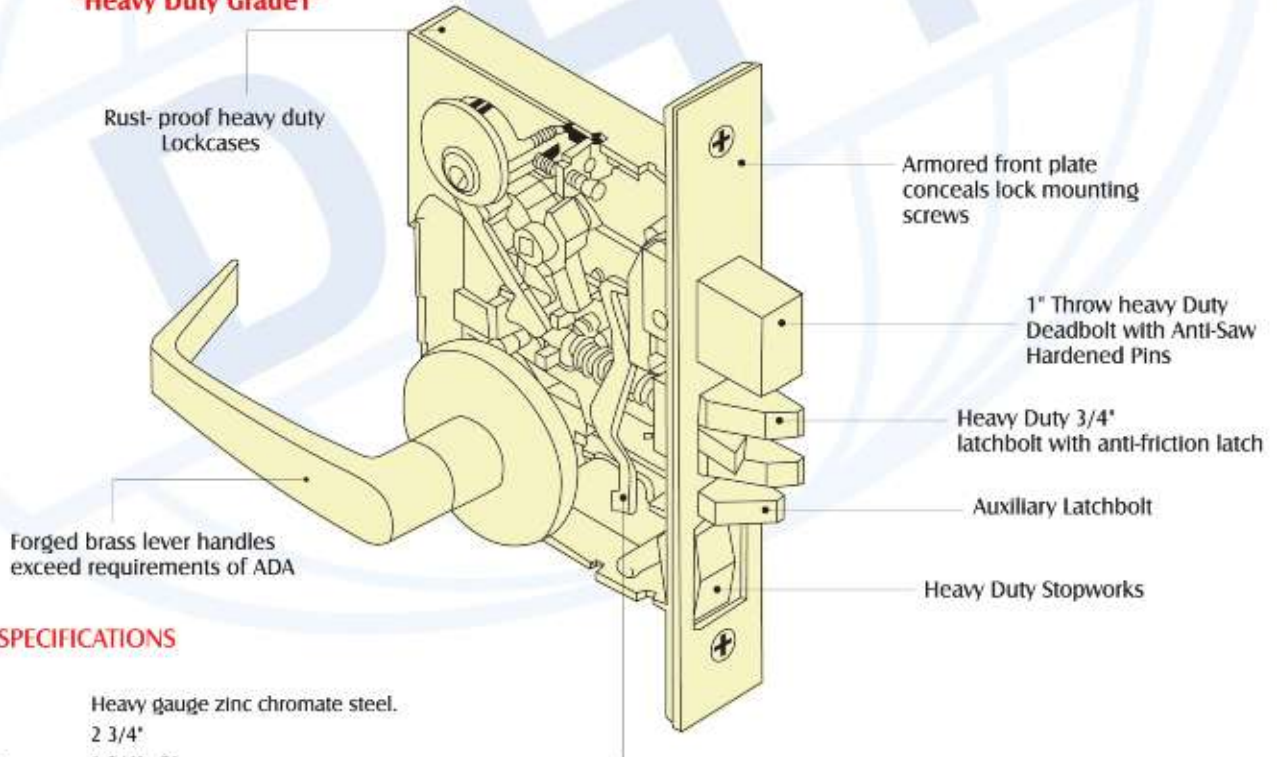
Series





Mortise Locks

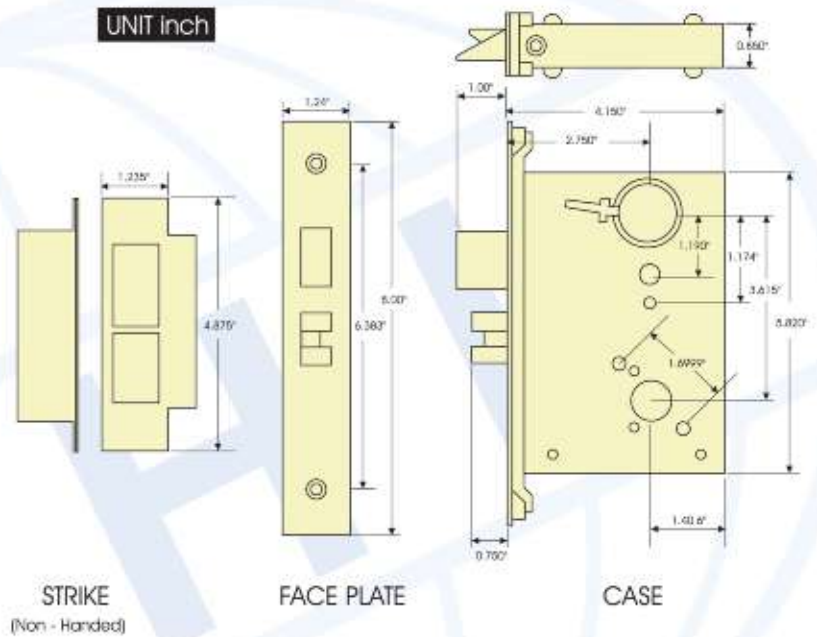
"Heavy Duty Grade 1"



FEATURES & SPECIFICATIONS

Lock Case	Heavy gauge zinc chromate steel.
Backset	2 3/4"
Door Thickness	1 3/4" - 2"
Lock Front	Heavy gauge steel 8" x 1 1/4" x 3/32". Accommodates flat doors & doors beveled 1/8" in 2".
Latchbolt	Brass, chrome plated with heavy-duty anti-friction tongue.
Deadbolt	1" throw, brass, chrome plated with hardened steel rollers.
Deadlocking Latchbolt	Brass 1/2" throw chrome plated
Strike	Brass, Non-Handed Flat Strike 4 7/8" x 1 1/4". Handed curved-up strike available upon request.
Handling Cylinder	Handed. Reversible in field Solid brass, 6 pin mortise, 1-1/8" (28mm) in length for 1-3/4" (44mm) door. Longer cylinder available for thicker doors. Can be masterkeyed, grandmasterkeyed and construction masterkeyed. Supplied with two 6 pin keys.
Guardbolt	Extruded brass, chrome plated.
Stopworks	Rocker Type. brass, chrome plated.
Trim	As specified.
Keyway	As specified.
Finishes	As specified.
UL Listings	U.L. Listed "A" Label (3 hour), for use on fire doors; single or pairs.
ANSI	Lock body conforms to Federal Specification Type 86; and to all dimensional and operational performances of ANSI A156.13 Series 1000, Grade 1.

100% internal parts Quality Inspection
Provides security, reliability and durability





DOOR HARDWARE INTERNATIONAL

FUNCTIONS

Outside	Inside	Series / Function	Type	ANSI No.	Function Description
		M101	Passage or Closet	F01	Latch bolt operated by lever from either side at all times.
		M102	Privacy or Storeroom	F02 F19	Latch bolt operated by lever from either side . Dead bolt operated by turn from inside and by emergency release from outside.
		M104	Entry	F04	Latch bolt operated by lever from either side except when outside lever is made inoperative by a stop or mechanical means other than key. When outside lever is locked, latchbolt is retracted by key from outside or by operating inside lever. Auxiliary dead latch.
		M105	Classroom	F05	Latch bolt operated by lever from either side except when outside lever or knob is locked from outside by key or push button mechanism. When outside lever is locked, latch bolt is retracted by key, or by operating key or push button mechanism and outside lever from outside or by operating inside lever. Auxiliary dead latch.
		M107	Storeroom or Closet	F07	Latch bolt operated by key from outside or by operating inside lever. Outside lever is always inoperative. Auxiliary dead latch.
		M109	Vestibule	F09	Latch bolt operated by lever from either side, except when outside lever is locked by key from inside. When outside lever is locked, latch bolt is retracted by key from outside or by operating inside lever. Auxiliary dead latch.
		M111	Entrance/ Apartment /Dormitory	F11 F12	Latch bolt operated by lever from either side except when outside lever is made operative by a stop or mechanical means other than key. Dead bolt projected by key from either side. Dead bolt retracted by key from outside. Both bolts retracted by inside lever and outside remains locked.
		M113	Dormitory or Exit	F13	Latch bolt operated by lever from either side . Dead bolt projected by key from outside and turn from inside. Operating inside lever retracts both bolts and unlocks outside.
		M114	Storeroom	F14	Latch bolt operated by lever from either side . Dead bolt operated by key from either side.
		M115	Hotel or Motel	F15	Latch bolt operated by key from outside or by operating inside lever. Outside lever is always inoperative. Dead bolt projected by turn from inside and all keys except emergency and display key are shut out. Operating inside lever retracts both bolts. Auxiliary dead latch. Indicator button when so specified.
		M120	Apartment Corridor	F20	Latch bolt operated by lever from either side, except when outside lever is made inoperative by a stop or mechanical means other than key. Dead bolt operated by key outside or turn inside. Key outside operates both bolts. Operating inside lever retracts both bolts and outside remains locked. Latch bolt is deadlocked when outside lever is made inoperative or when the deadbolt is projected. When dead bolt is retracted, lever is unlocked by stop or mechanical means other than key.

COMPARISON CHART

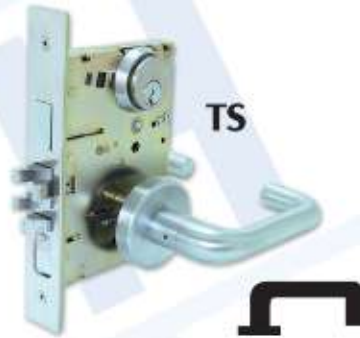
FUNCTION	ANSI NO.	DHI M Series	ARROW B Series	CORBIN/ RUSSWIN	SARGENT 7700/8100	SCHILAGE L Series	P.D.Q. ML Series	YALE
Passage	F01	M101	BM01	2210	15	L9010	126	8701
Privacy	F02/F19	M102	BM02	2220	68	L9040	176	8702
Entrance	F04	M104	BM22	2251	5	L9050	116	8707
Classroom	F05	M105	BM17	2255	37	L9070	148	8708
Storeroom	F07	M107	BM12	2257	4	L9080	115	8705
Vestibule	F09	M109	BM32	2242	16	L9060	127	8717
Apartment	F11/F12	M111	BM11	2267	45	L9453	156	8767
Dormitory	F13	M113	BM19	2265	25	L9456	136	8722
Storeroom	F14	M114	BM31	2222	26	L9466	137	8760
Hotel	F15	M115	BM15	2229	50	L9485	161	8720
Apartment	F20	M120	BM20		43	L9453		8747



DOOR HARDWARE INTERNATIONAL



SS



TS



JS



GS



SE



JE



TE



GE



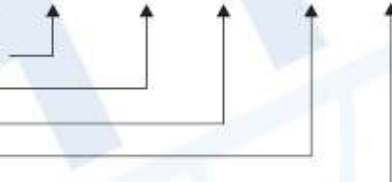
HOW TO ORDER

Function	See function Chart			
Trim	See Trim Designs			
Finish	See Listing At Bottom			
Hand	RH	LH	RHR	LHR
Keying	Select Your Keyways & Keying			

Example

M104 - SS - 626 - RH - xxx

- Entrance Function
- S Trim Sectional
- Satin Chrome
- Right Handed
- Keyways



FINISHES

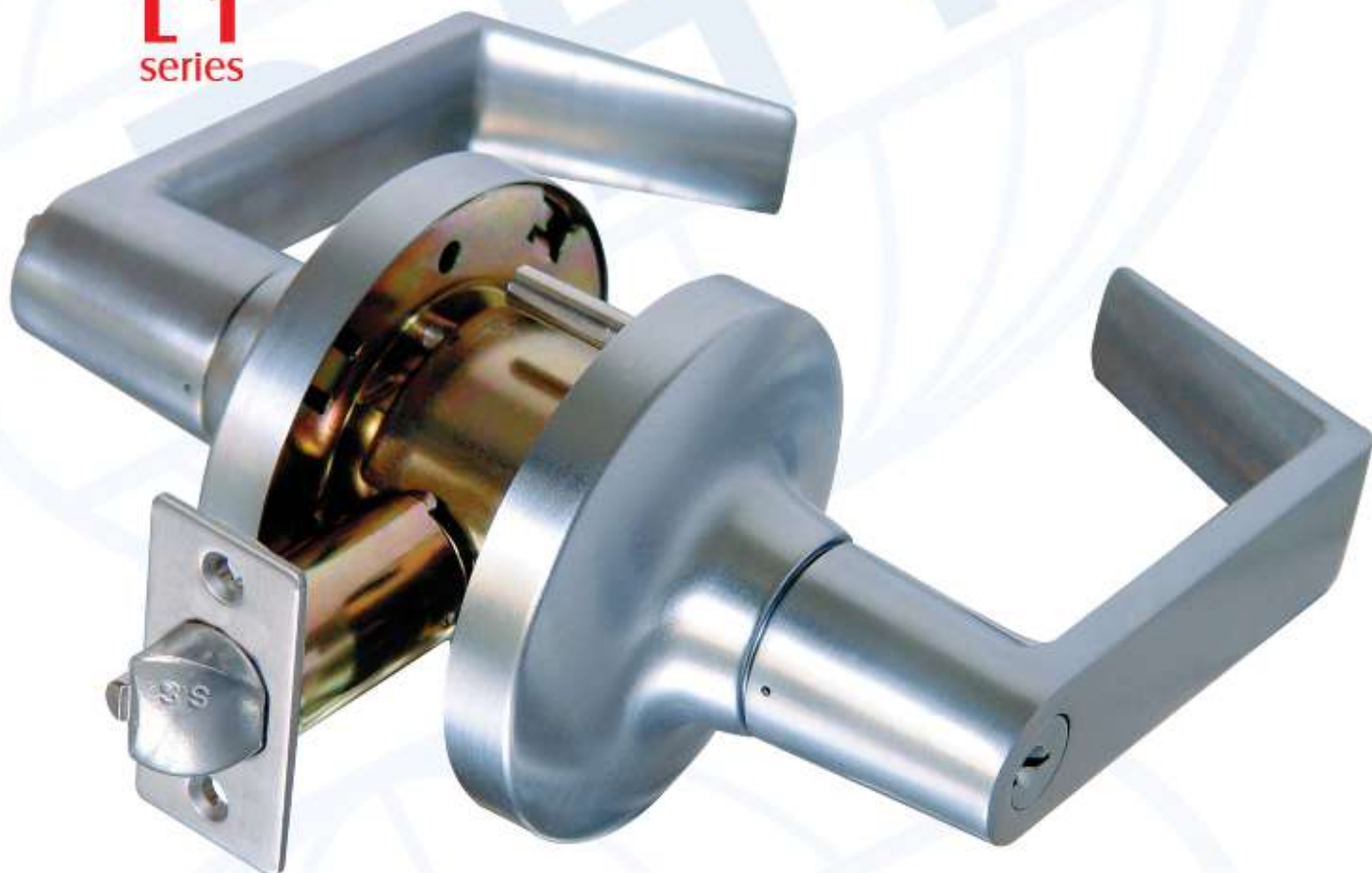
Symbol	BHMA	Description
US3	605	Polished Brass
US4	606	Satin Brass
US10B	613	Oil Rubbed Bronze
US26	625	Polished Chrome
US26D	626	Satin Chrome





Cylindrical Locks

L1
series



SPECIFICATIONS

Meets ANSI/BHMA A156.2 Series 4000 Grade 1

Backset	2-3/4" (70mm)
Latch Bolt	1-1/8" (28mm) x 2-1/4" (57mm) standard
Handling	Reversible
Finishes	US26D, US26, US3, US5, US11 US10B
Strike	2-3/4" x 1-1/8" (70mm x 28mm) (Standard) 4-7/8" x 1-1/4" (124mm x 32mm) (Available)
Keying	Solid Brass 6-pin tumbler cylinder with two nickel plated keys per lock. Supplied keyed different standard, keyed alike, master keyed, grandmasterkeyed and construction keyed systems are available. Also emergency grandmasterkeying available for hotel function.
Trim	LS Only



DOOR HARDWARE INTERNATIONAL

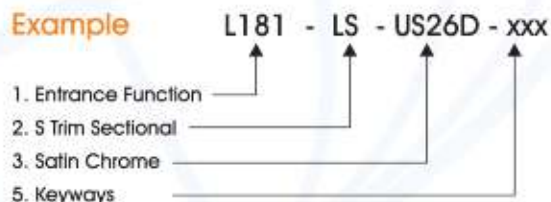


FUNCTION	ANSI No.	DHI MODEL NO.	OUTSIDE	INSIDE	FUNCTION DESCRIPTION
SINGLE DUMMY TRIM		L100			* Single dummy trim for one side doors where only a pull is required.
COMMUNICATING LOCK		L104			* Operating key inside locks or unlocks inside lever. * Outside is a blank plate.
PASSAGE SET	F75	L175			* Lever from either side operates latchbolt at all times. * For doors that do not require locking.
PRIVACY, BATH/ BEDROOM LOCK	F76	L176			* Pushing button inside locks outside lever. * A coin or a flat narrow tool inserted and turned in emergency slot unlocks door from outside. * Inside lever is always active.
PATIO LOCK	F77	L177			* Pushing button inside locks outside lever. * Turning inside lever or closing door unlocks outside lever. * Kick-off deadlocking latch. * Inside lever is always active.
COMMUNICATING LOCK (DOUBLE CYLINDER)	F80	L180			* Operating key outside or inside locks or unlocks both levers simultaneously.
ENTRANCE LOCK	F81	L181			* Pushing button inside locks outside lever. * Operating key outside or turning inside lever releases locked outside lever. * Inside lever is always active.
CLASSROOM LOCK	F84	L184			* Operating key outside locks or unlocks outside lever. * Inside lever is always active.
STOREROOM LOCK	F86	L186			* Operating key outside or turning inside lever retracts latchbolt. * Outside lever is always rigid. * Inside lever is always active.
HOTEL/MOTEL LOCK	F93	L193			* Operating key outside or turning inside lever retracts latchbolt. * Outside lever is always rigid. * Inside lever is always active. * Pushing button inside when door is closed projects visible occupancy indicator on face of cylinder plug and shuts out all keys except emergency key. * Pushing button inside and turning 90 degrees clockwise fixes inside button in locked position.

HOW TO ORDER

Function	See function Chart
Trim	See Trim Designs
Finish	See Listing At Bottom
Keying	Select Your Keyways & Keying

Example





Cylindrical Locks

L 2
series



SPECIFICATIONS

Meets ANSI/BHMA A156.2 Series 4000 Grade 2

Backset 2-3/4" (70mm).

Latch Bolt 1-1/8" (28mm) x 2-1/4" (57mm)

Handling Reversible

Finishes US26D, US26, US3, US5, US11
US10B

Strike 2-3/4" x 1-1/8" (70mm x 28mm)
(Standard)
4-7/8" x 1-1/4" (124mm x 32mm)
Available)

Keying Solid Brass 6-pin tumbler cylinder
with two nickel plated keys per lock.
Supplied keyed different standard,
keyed alike, master keyed,
grandmasterkeyed and construction
keyed systems are available. Also
emergency grandmasterkeying
available for hotel function.

Trim LS Only



DOOR HARDWARE INTERNATIONAL



FUNCTION	ANSI NO.	DHI MODEL NO.	OUTSIDE	INSIDE	FUNCTION DESCRIPTION
SINGLE DUMMY TRIM		L200			* Single dummy trim for one side doors where only a pull is required.
COMMUNICATING LOCK		L204			* Operating key inside locks or unlocks inside lever. * Outside is a blank plate.
PASSAGE SET	F75	L275			* Lever from either side operates latchbolt at all times. * For doors that do not require locking.
PRIVACY, BATH/ BEDROOM LOCK	F76	L276			* Pushing button inside locks outside lever. * A coin or a flat narrow tool inserted and turned in emergency slot unlocks door from outside. * Inside lever is always active.
PATIO LOCK	F77	L277			* Pushing button inside locks outside lever. * Turning inside lever or closing door unlocks outside lever. * Kick-off deadlocking latch. * Inside lever is always active.
COMMUNICATING LOCK (DOUBLE CYLINDER)	F80	L280			* Operating key outside or inside locks or unlocks both levers simultaneously.
ENTRANCE LOCK	F81	L281			* Pushing button inside locks outside lever. * Operating key outside or turning inside lever releases locked outside lever. * Inside lever is always active.
CLASSROOM LOCK	F84	L284			* Operating key outside locks or unlocks outside lever. * Inside lever is always active.
STOREROOM LOCK	F86	L286			* Operating key outside or turning inside lever retracts latchbolt. * Outside lever is always rigid. * Inside lever is always active.
HOTEL/MOTEL LOCK	F93	L293			* Operating key outside or turning inside lever retracts latchbolt. * Outside lever is always rigid. * Inside lever is always active. * Pushing button inside when door is closed projects visible occupancy indicator on face of cylinder plug and shuts out all keys except emergency key. * Pushing button inside and turning 90 degrees clockwise fixes inside button in locked position.

HOW TO ORDER

Function	See function Chart
Trim	See Trim Designs
Finish	See Listing At Bottom
Keying	Select Your Keyways & Keying

Example

L281 - LS - US26D - xxx

1. Entrance Function
2. S Trim Sectional
3. Satin Chrome
5. Keyways





DOOR HARDWARE INTERNATIONAL

Cylindrical Locks

C2
series



SPECIFICATIONS

Meets ANSI/BHMA A156.2 Series 4000 Grade 2

Backset 2-3/8" (60MM) STANDARD OR 2-3/4" (70mm) available.

Latch Bolt 1-1/8" (28mm) x 2-1/4" (57mm) standard

Handling Reversible

Finishes US32D, US32, US3, US5, US11, US10B

Strike 2-3/4" x 1-1/8" (70mm x 28mm) (Standard)
4-7/8" x 1-1/4" (124mm x 32mm) Available)

Keying Solid Brass 6-pin tumbler cylinder with two nickel plated keys per lock. Supplied keyed different standard, keyed alike, master keyed, grandmasterkeyed and construction keyed systems are available. Also emergency grandmasterkeying available for hotel function.

Trim BA Only

Function	ANSI No.	DHI Model No.	Outside	Inside	Function Description
Single Dummy trim		C200			Single Dummy trim for one side of doors where only one pull is required
Communicating Lock		C204			Operating key inside locks or unlocks inside knob. Outside is blank plate.
Passage Set	F75	C275			Knob from either side operates latchbolt at all times. For doors that do not require locking.
Privacy, Bath/Bedroom Lock	F76	C276			Pushing button inside locks outside knob. A coin or a flat narrow tool inserted and turned in emergency slot unlocks door from outside. Inside knob is always active.
Patio Lock	F77	C277			Pushing button inside locks outside knob. Turning inside knob or closing doors unlocks outside knob. Kick-off deadlocking latch. Inside knob is always active.
Communicating Lock	F80	C280			Operating key outside locks or unlocks both knob simultaneously.

Function	ANSI No.	DHI Model No.	Outside	Inside	Function Description
Entrance Lock	F81	C281			Pushing button inside locks outside knob. Operating key outside or turning inside knob releases/locks outside knob. Inside knob is always active.
Classroom Lock	F84	C284			Operating key outside locks or unlocks outside knob. Inside knob is always active.
Storeroom Lock	F86	C286			Operating key outside or turning inside knob retracts latchbolt. Outside knob is always rigid. Inside knob is always active.
Hotel/ Motel Lock	F93	C293			operating key outside or turning inside knob retracts latchbolt. Outside knob is always rigid. Inside knob is always active. Pushing button inside when door is closed projects visible occupancy indicator on face of cylinder plug and shuts out all keys except emergency key. Pushing button inside and turning 90° clockwise.





Deadbolts

DB2 series



SPECIFICATIONS

Meets ANSI/BHMA A156.5 Grade 2

- Backset** 2-3/8" (60mm) standard or 2-3/4" (70mm) available.
- Deadbolt** 1" (25mm) x 2-1/4" (57mm)
- Handling** Reversible
- Finishes** US32D, US32, US3, US5, US11, US10B
- Strike** 1" x 2-1/4" (25mmx57mm)
- Keying** Solid Brass 6-pin tumbler cylinder with two nickel plated keys per lock. Supplied keyed different standard, keyed alike, master keyed,

FUNCTION	DH Model No.	Outside	Inside	Function Description
Exit	DB20			Deadbolt operated by thumbturn from inside; no cylinder outside.
Entrance	DB21			Deadbolt operated by key from outside and by thumbturn from inside.
Communicating	DB22			Deadbolt operated by key from either side.

HOW TO ORDER

Function	See function Chart
Trim	See Trim Designs
Finish	See Listing At Bottom
Keying	Select Your Keyways & Keying

Example

- C281 - BA - US32D - xxx
- 1. Entrance Function
 - 2. S Trim Sectional
 - 3. Satin Chrome
 - 5. Keyways



HANG THE DOOR

CLOSE THE DOOR

LOCK THE DOOR

PROTECT THE DOOR









2000 Series



2100 Series Rim Exit Device

General Specifications

Conforms to	ANSI A153.3 Grade 1.
Chassis & Cover	Steel or Stainless Steel.
End Caps	Steel or Stainless Steel .
Doors	1-3/4" (44.0mm) thick. Specify if other than 1-3/4" .
Handing	Reversible.
Dogging	Hex Key dogging on non-fire labeled device.
Latch Bolt	3/4" (19mm) throw stainless steel.
Dead Latch Bolt	5/8" (16mm) stainless steel.
Mounting	Furnished standard with sheet metal & machine screws or SNB as option.
Backset	2-3/4" (70mm).
Rail Size	36 standard for door width of 2'-6" to 3'-0". 48 standard for door width of 3'-0" to 4'-0".
UL	For "Panic Hardware" and "B" labeled (1-1/2hr) fire exit hardware.
Trim	See trim page 10.
Finishes	AL, BRZ, Powder Coat, LBZ, (sprayed finishes). 32D satin stainless steel.





2000 Series



2300 Series Vertical Rod Exit Device (Surface Mount)

General Specifications

Conforms to	ANSI A153.3 Grade 1.
Chassis & Cover	Steel or Stainless Steel.
End Caps	Steel or Stainless Steel.
Doors	1-3/4" (44.0mm) thick. Specify if other than 1-3/4" .
Handing	Reversible.
Dogging	Hex Key dogging on non-fire labeled device.
Latch Bolt	3/4" (19mm) throw stainless steel.
Dead Latch Bolt	5/8" (16mm) stainless steel.
Mounting	Furnished standard with sheet metal & machine screws or SNB as option.
Backset	2-3/4" (70mm).
Rail Size	36 standard for door width of 2'-6" to 3'-0". 48 standard for door width of 3'-0" to 4'-0".
UL	For "Panic Hardware" and "B" labeled (1-1/2hr) fire exit hardware.
Trim	See trim page 10.
Finishes	AL, BRZ, Powder Coat, LBZ, (sprayed finishes). 32D satin stainless steel.





6000 Series



6100 Series Rim Exit Device

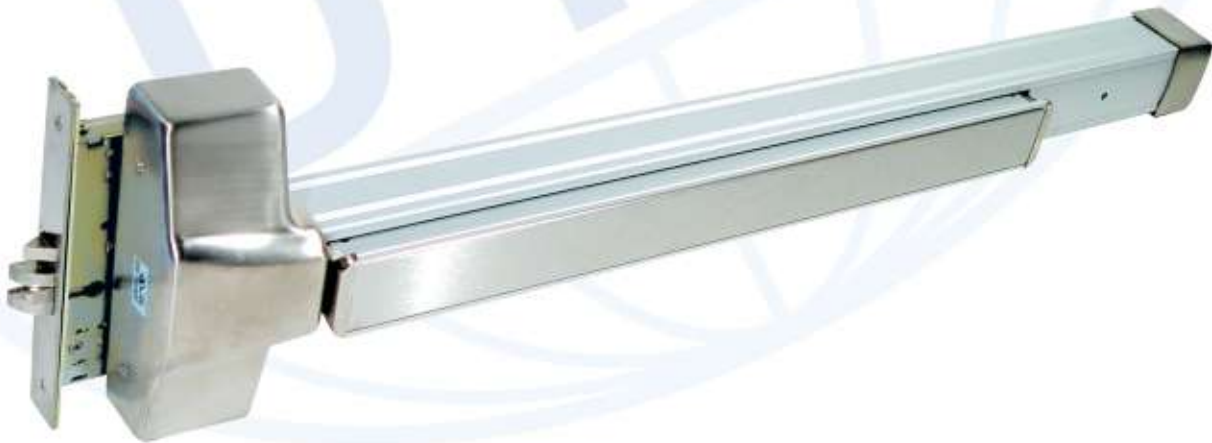
General Specifications

Conforms to	ANSI A153.3 Grade 1.
Push Bar	Brass or stainless steel.
Chassis	Steel Plated.
Mechanism Housing	Extruded Aluminum.
End Caps	Steel or Stainless Steel.
Doors	1-3/4" (44.0mm) thick. Specify if other than 1-3/4"
Handing	Non handed.
Dogging	Hex Key dogging on non-fire labeled device.
Latch Bolt	3/4" (19 mm) throw stainless steel.
Dead Latch Bolt	5/8" (16mm) stainless steel.
Mounting	Furnished standard with sheet metal & machine screws or SNB as option.
Backset	2-3/4" (70mm)
Rail Size	36 for door up to 3'.0" wide. 48 for door up to 4'.0" wide.
UL	For "Panic Hardware" and (3hr) fire exit hardware.
Trim	See trim page 11.
Finishes	US3, US4, US10, US20A, US26, US26D, US28, US32D.





6000 Series



6200 Series Mortise Exit Device

General Specifications

Conforms to	ANSI A153.3 Grade 1.
Push Bar	Brass or stainless steel.
Chassis	Steel or Stainless Steel.
Mechanism Housing	Extruded Aluminum.
End Caps	Steel or Stainless Steel.
Mortise Lock	Furnished with Mortise lock case fits ANSI A115.1 door prep.
Doors	1-3/4" (44.0mm) thick. Specify if other than 1-3/4" .
Handing	Non Handed
Dogging	Hex Key dogging on non-fire labeled device.
Latch Bolt	3/4" (19mm) throw stainless steel.
Dead Latch Bolt	5/8" (16mm) stainless steel.
Mounting	Furnished standard with sheet metal & machine screws or SNB as option.
Backset	2-3/4" (70mm).
Rail Size	36 standard for door width of 2'-6" to 3'-0". 48 standard for door width of 3'-0" to 4'-0".
UL	For "Panic Hardware" and "B" labeled (1-1/2hr) fire exit hardware.
Trim	See trim page 11.
Finishes	US3, US4, US10, US20A, US26, US26D, US28, US32D.





6000 Series



6300 Series Vertical Rod Exit Device (Surface Mount)

General Specifications

Conforms to	ANSI A153.3 Grade 1.
Push Bar	Brass or stainless steel.
Chassis	Steel or Stainless Steel.
Mechanism Housing	Extruded Aluminum.
End Caps	Steel or Stainless Steel.
Doors	1-3/4" (44.0mm) thick. Specify if other than 1-3/4" .
Handing	Non Handed
Dogging	Hex Key dogging on non-fire labeled device.
Latch Bolt Top & Bottom	19/32" (15mm) throw stainless steel Steel, stainless steel, brass or bronze.
Latch Case Cover	Steel, Stainless Steel
Mounting	Furnished standard with sheet metal & machine screws or SNB as option.
Backset	2-3/4" (70mm)
Rail Size	36 standard for door width of 2'-6" to 3'-0". 48 standard for door width of 3'-0" to 4'-0".
UL	For "Panic Hardware" and "B" labeled (1-1/2hr) fire exit hardware.
Trim	See trim page 11.
Finishes	US3, US4, US10, US20A, US26, US26D, US28, US32D.





6000 Series



6400 Series Vertical Rod Exit Device (Concealed Mount)




General Specifications

Conforms to	ANSI A153.3 Grade 1
Push Bar	Brass or stainless steel.
Chassis	Steel or Stainless Steel.
Mechanism Housing	Extruded Aluminum.
End Caps	Steel or Stainless Steel.
Doors	1-3/4" (44.0mm) thick. Specify if other than 1-3/4".
Handing	Non Handed
Dogging	Hex Key dogging on non-fire labeled device.
Latch Bolt Top & Bottom	19/32" (15mm) throw stainless steel. Steel, Plated.
Latch Case	Steel, Stainless Steel
Mounting	Furnished standard with sheet metal & machine screws or SNB as option.
Backset	2-3/4" (70mm).
Rail Size	36 standard for door width of 2'-6" to 3'-0". 48 standard for door width of 3'-0" to 4'-0".
UL	For "Panic Hardware" and "B" labeled (1-1/2hr) fire exit hardware.
Trim	See trim page 11.
Finishes	US3, US4, US10, US20A, US26, US26D, US28, US32D.










Outside Trims

			
Model	BA	LE	TP
Function No.	08	08	05
Function Description	Entrance by knob or lever. Key locks or unlocks knobs or lever.	Entrance by knob or lever. Key locks or unlocks knobs or lever.	Entrance by thumb piece. Key locks or unlocks thumb piece.
Applicable	2000 Series	2000 Series	2000 Series





Outside Trims

					
Model	BE	TE	SE	TP	NP
Function No.	08	08	08	05	03
Function Description	Entrance by knob or lever. Key locks or unlocks knobs or lever.	Entrance by knob or lever. Key locks or unlocks knobs or lever.	Entrance by knob or lever. Key locks or unlocks knobs or lever.	Entrance by thumb piece. Key locks or unlocks thumb piece.	Entrance by trim when latch bolt is retracted by key. Key removable only when locked..
Applicable	6000 Series	6000 Series	6000 Series	6000 Series	6000 Series





HANG THE DOOR

CLOSE THE DOOR

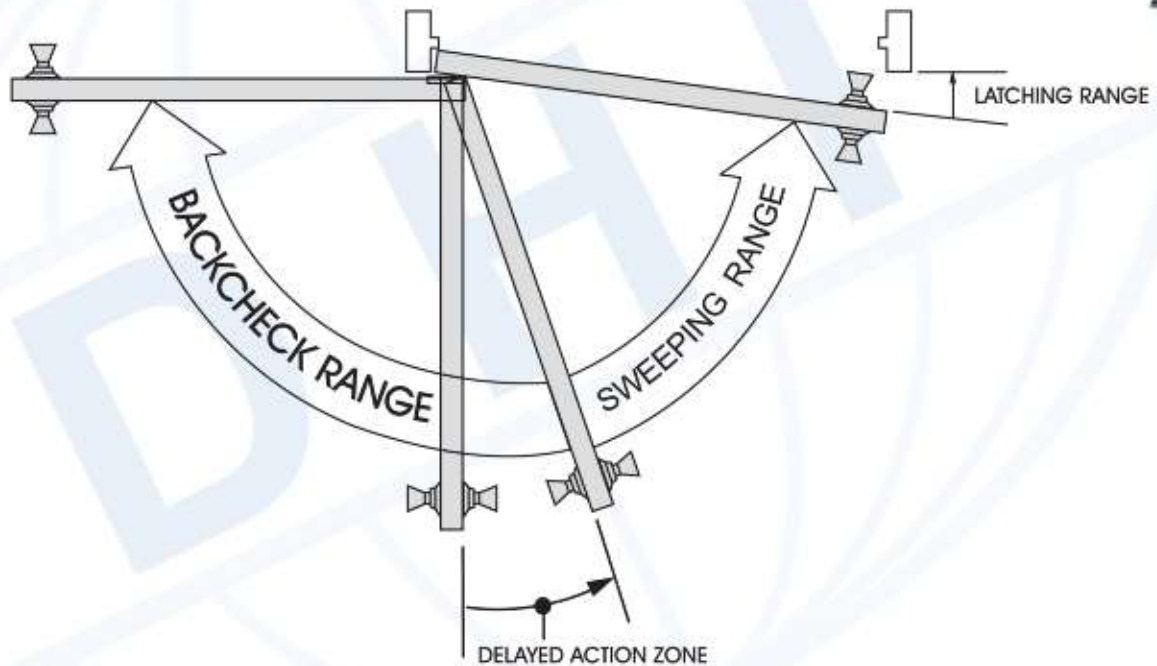
LOCK THE DOOR

PROTECT THE DOOR









Definition:

A: Latch Speed

Latch control allows extra speed to be gained in the final stage of door closing to overcome the resistance of the door latch, door seals of airtightness-without slamming. Also allowed unlatched door to be closed quietly.

B: Sweep Speed

The close control adjusts and regulates the speed of the door through the main arc of the closing sweep to suit individual needs.

C: Back Check start about 70° (BC)

Back check control provides a strength adjustable braking action start about 70° to help prevent damage to door or wall if the door is opened with undue force. Door stops may still be needed.

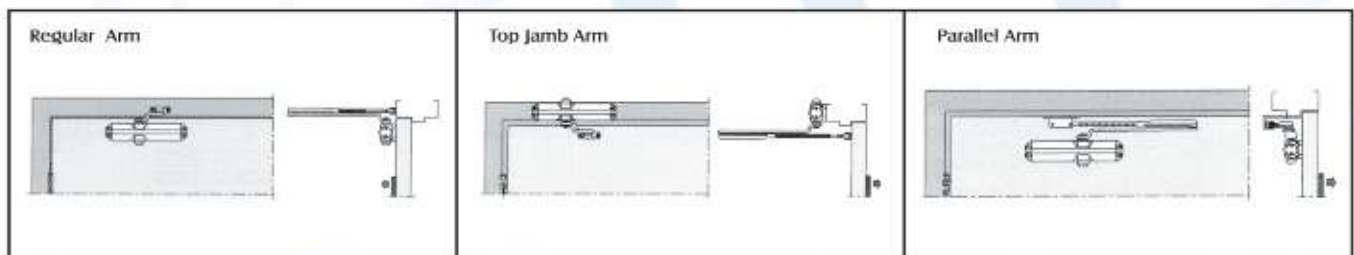
D. Delayed action before 60° (DA)

When the door is opened beyond approx 60°, and integral delay function slows down the closing action for a period, to allow convenient passage through the opening. This feature is particularly useful for hospitals, Retirement homes and Similar situations.

Determine the size :

Size	DOOR WIDTH				
	Regular & Top Jamb			Parallel	
	Interior	Exterior		Interior	Exterior
		Inswinging	outswinging		
2	2'8"	-	-	2'6"	-
3	3'2"	2'6"	2'10"	3'0"	2'6"
4	3'8"	3'0"	3'6"	3'6"	3'0"
5	4'2"	3'6"	4'0"	4'0"	3'6"
6	4'8"	4'0"	4'6"	4'6"	4'0"

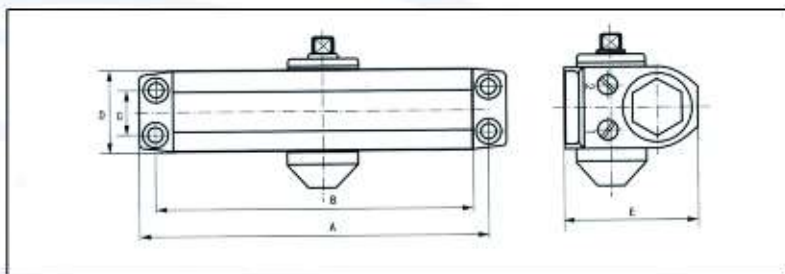
Types of mounts





DOOR HARDWARE INTERNATIONAL

C 201



General Specifications

Body - Aluminum alloy with high Tensile spring and hardened rack & pinion. Needle bearing are use for super smooth operation & high efficiency.

Size : Model 5014 adjustable spring power for size 1-4
Model 5036 adjustable spring power for size 3-6

Sweep - An independent regulating valve, permits adjustment of the general closing speed.

Latch - An independent regulating valve, permits adjustment of the door's speed for approximately the last 5" of the closing cycle.

Backcheck - An independent regulating valve, provides an adjustable hydraulic cushion to the door opening speed toward the end of the opening cycle.

Delayed Action - An optional hydraulic feature that adds a third speed range to the closing control cycle. This feature becomes effective when the door is opened and released at any point beyond 60°. This delayed closing enables traffic to clear the opening before the normal closing.



Arm Pack - closer pack with brackets to permit regular arm, top jamb or parallel arm installation

Hold open - Available for all applications.

Hand - Non handed, except when using fusible link arm.

Warranty - 10 years





4400



General Specifications

Body - Cast Iron alloy with high Tensile spring and hardened rack & cast iron. Needle bearing are use for super smooth operation & high efficiency.

Size : adjustable spring power for size 1-6

Sweep - An independent regulating valve, permits adjustment of the general closing speed.

Latch - An independent regulating valve, permits adjustment of the door's speed for approximately the last 5° of the closing cycle.

Backcheck - An independent regulating valve, provides an adjustable hydraulic cushion to the door opening speed toward the end of the opening cycle., except when using fusible link arm.

Warranty - 10 years

Delayed Action - An optional hydraulic feature that adds a third speed range to the closing control cycle. This feature becomes effective when the door is opened and released at any point beyond 60°. This delayed closing enables traffic to clear the opening before the normal closing.



Arm Pack -closer pack with brackets to permit regular arm, top jamb or parallel arm installation.

Hold open - Available for all applications.

Hand - Non handed, except when using fusible link arm.

Warranty - 10 years



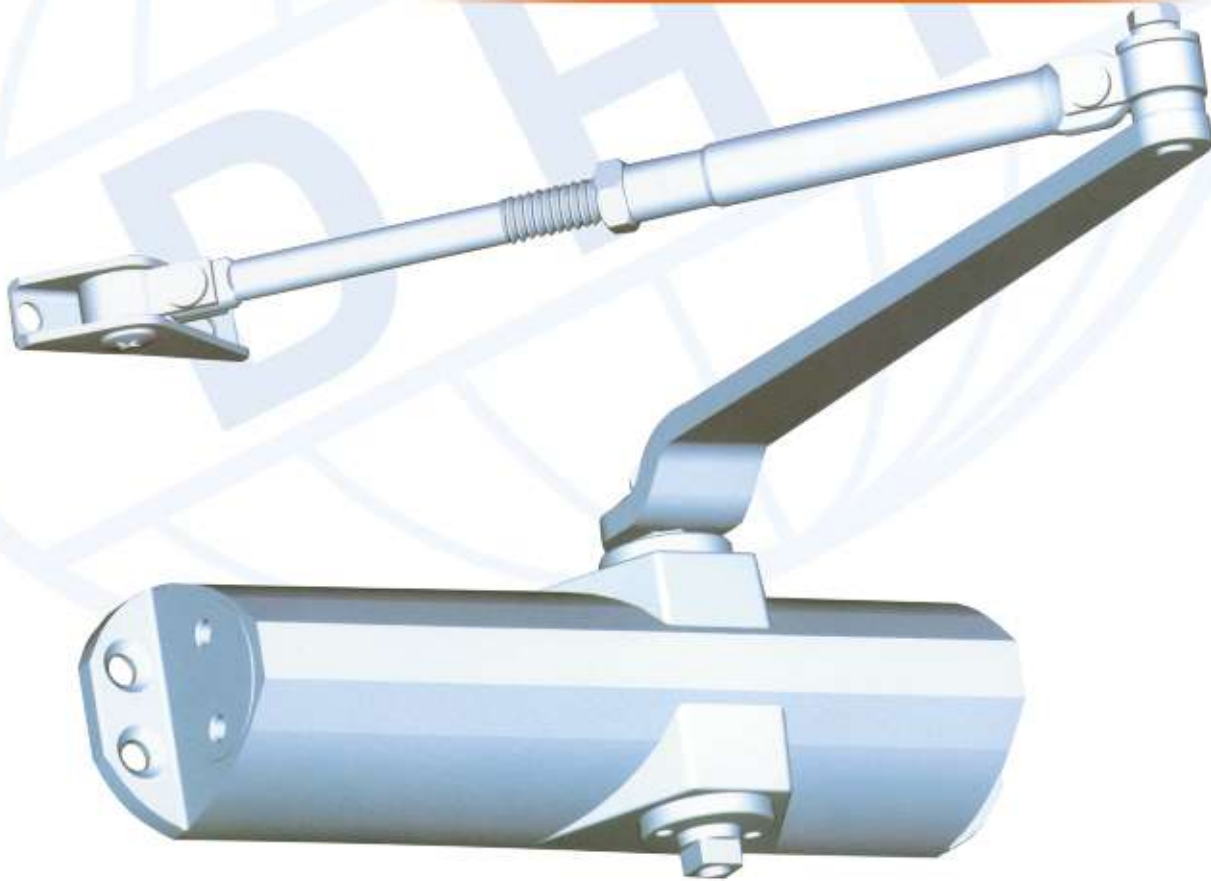


Plastic Cover





3300 Series



General Specifications

Body - Aluminum alloy with high Tensile spring and hardened rack & pinion.

Size : Model 3302 for doors up to 900mm wide .
Model 3303 for doors up to 1000mm wide .

Sweep - An independent regulating valve, permits adjustment of the general closing speed.

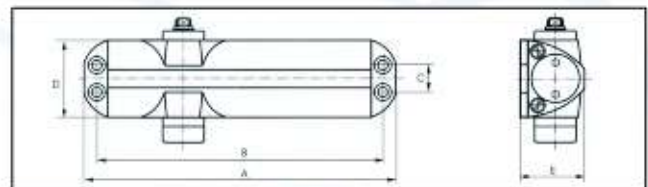
Latch - An independent regulating valve, permits adjustment of the door's speed for approximately the last 5° of the closing cycle.

Arm Pack - standard for regular and top jamb installation.

Hold open - standard on model 3302HO.

Hand - Non handed,

Warranty - 5 years



SELECTION CHART

Type	DOOR	
	width(mm)	weight (kg)
3302,3302HO	900	25-45
3303	1000	40-65

Description	Dimension (mm)
A. Length of closer Body	220
B. Horizontal Mounting Holes	202
C. Vertical Mounting Holes	19
D. Height of Closer Body	53.5
E. Projection from Door	45





DOOR HARDWARE INTERNATIONAL

Concealed



General Specifications

- Body :** Aluminum alloy with high Tensile spring and hardened rack & pinion.
- Size :** Model 1102 for doors up to 900mm wide .
Model 1103 for doors up to 1000mm wide .
- Sweep:** An independent regulating valve, permits adjustment of the general closing speed.
- Latch :** An independent regulating valve, permits adjustment of the door's speed for approximately the last 5° of the closing cycle.
- Arm :** concealed slide arm
- Hand :** Non handed
- Warranty :** 5 years

SELECTION CHART

Type	DOOR	
	width(mm)	weight (kg)
1102	900	25-45
1103	1000	40-65





DOOR HARDWARE INTERNATIONAL

Floor 2



For Tempered Glass Doors and Stainless Steel Doors

USAGE K-6000, NSK-6000

As Highest-grade model for aluminium chassis and iron door, Installed in the entrance of shops and buildings. Diverse models of both-side hold, both-side free, one-side hold and one side free type are available.

K 9000 Series

- Suitable for heavy-weight and frequently used doors(or gates)
- Easy adjustment for installation
- Double-piston structured for soft movement, with long durability
- Two valves regulate closing and latching speed.

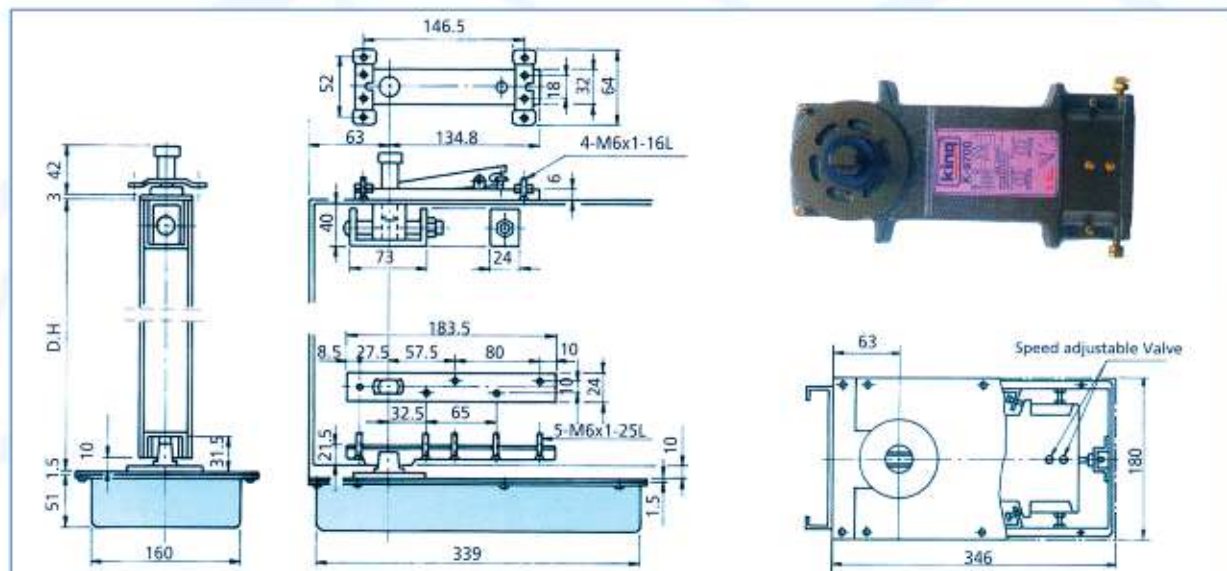
Option

- Also available for aluminum, chassis doors.
- One-side hold (Hold-open type)
- Both-side free (Non-stop type)
- One-side free (Non-stop type)

Selection Chart

Both-side hold	Both-side free	One-side hold	One-side free	Door Size(kg)(mm)
9400	9400N	9400S	9400NS	1050 x 2400 / 80-120
9500	9500N	9500S	9500NS	1200 x 2400 / 100-150
9600	9600N	9600S	9600NS	1200 x 2700 / 130-210
9700	9700N	9700S	9700NS	1300 x 2700 / 180-240

Drawing of installation for tempered glass doors (K-9000)

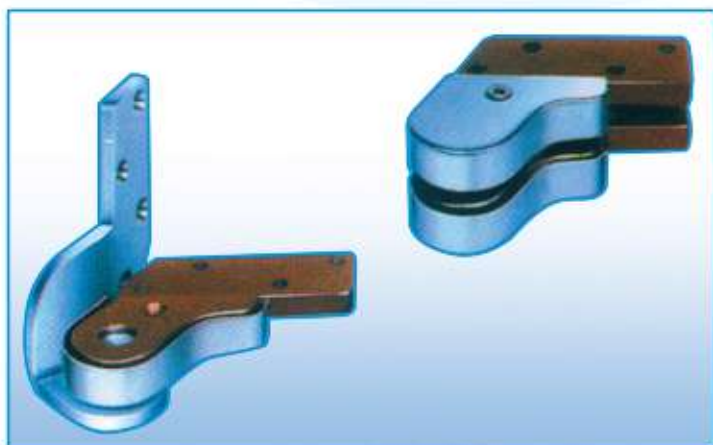




Auto door release

ELECTRICAL SPECIFICATION

MODEL	ZT-DR24	ZT-DR240
PART NO	50-001	50-002
Rated Voltage	24V DC	240V AC
Rated Current	125mA	6mA
Switch Through AUX	Yes [with Diode]	No
Needs Back EMF Diode	Yes	No
Holding Force	200 Newton	
Dimensions (main unit)	70 x 90 x 45mm	
Dimensions (keeper plate)	56 x 56 x 52 mm	
Fixing Centres	50 mm	
Weight	570g	



Pivot Hinges

Model	Material			Application	
	Bottom of door frame	Top of door frame Bottom of top frame	Finish	Door weight	Applications
K-1100	Stainless steel Thickness 5mm	Cold strip, Steel Plate	Stainless steel	90kg or less	Iron gates
K-1200	Stainless steel Thickness 5mm	Cold strip, Steel Plate	Stainless steel	100kg or less	Iron gates
K-1300	Stainless steel Thickness 6mm	Forging, S45C	Stainless steel	150kg or less	High-grade iron gates
K-1400	Stainless steel Thickness 6mm	Forging, S45C	Stainless steel	150kg or less	High-grade iron gates
K-1500	Stainless steel Thickness 6mm	Forging, S45C	Stainless steel	150kg or less	High-grade wooden doors



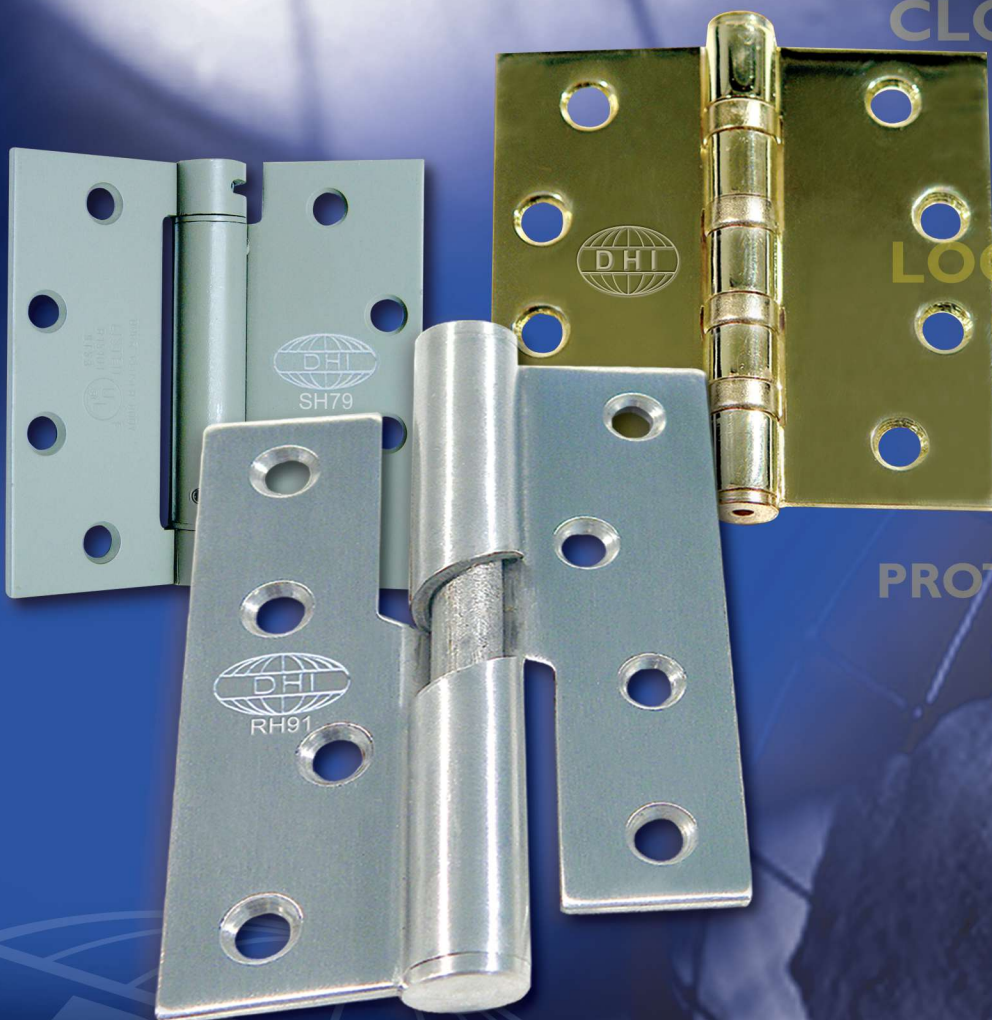


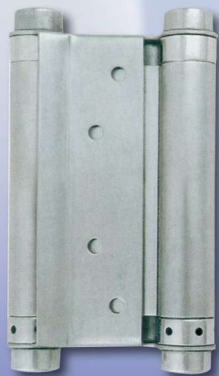
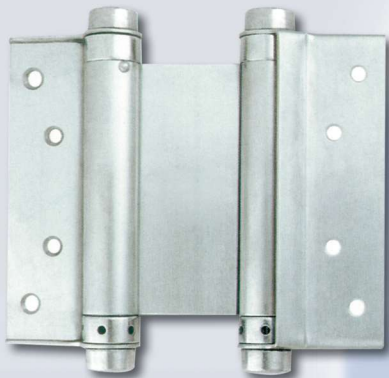
HANG THE DOOR

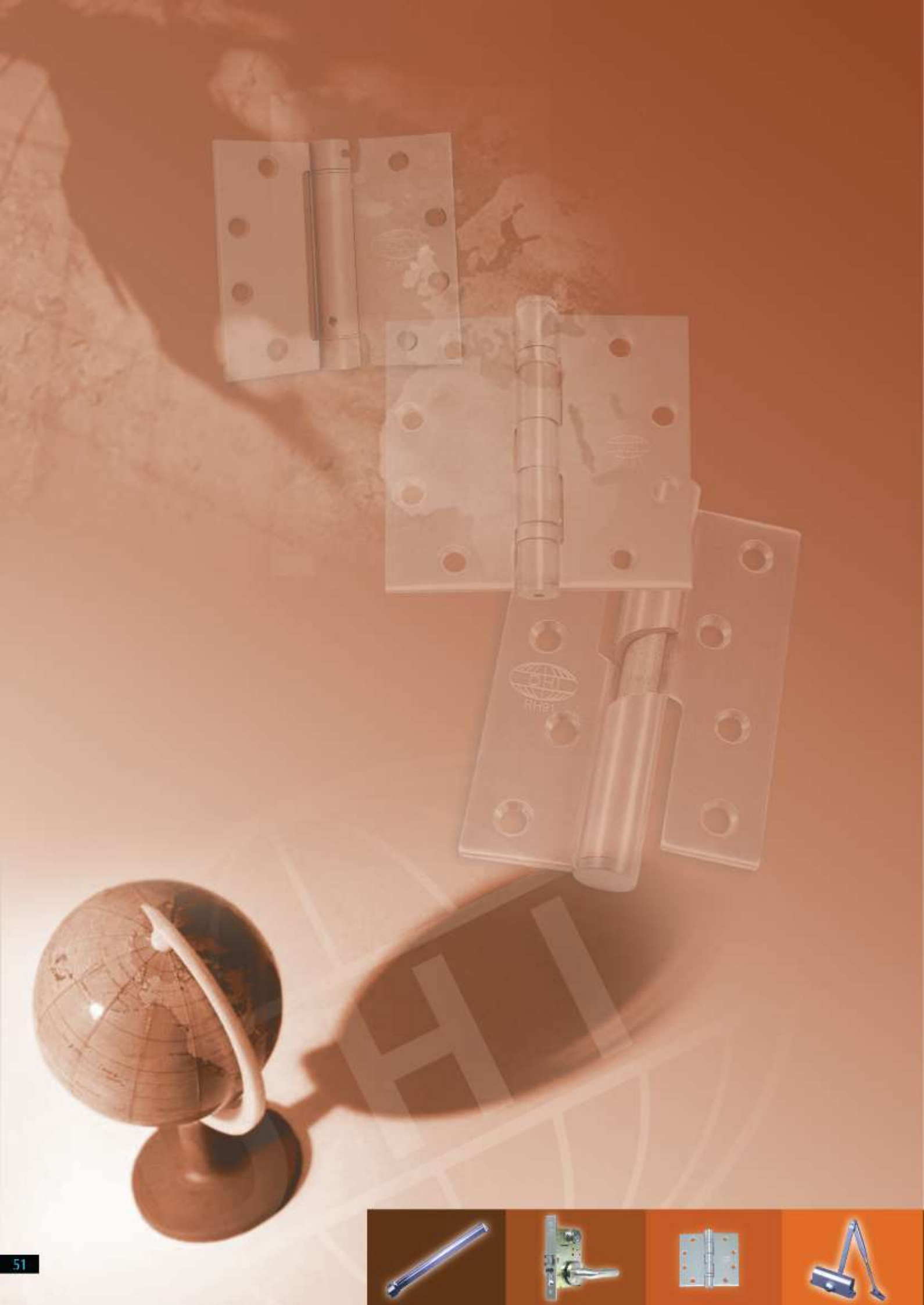
CLOSE THE DOOR

LOCK THE DOOR

PROTECT THE DOOR









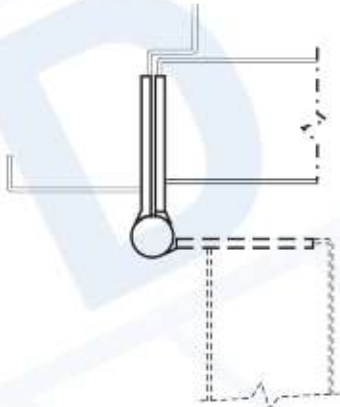

How to select a Hinge

DOOR HARDWARE INTERNATIONAL

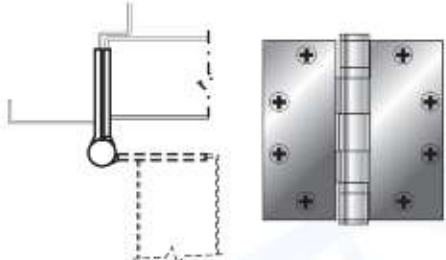
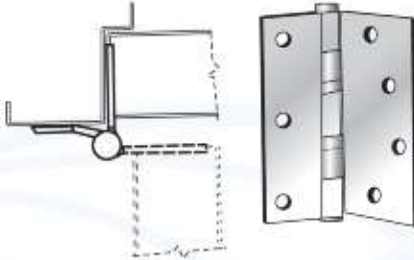
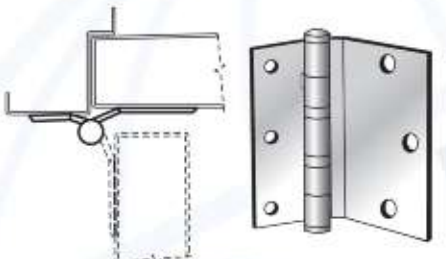
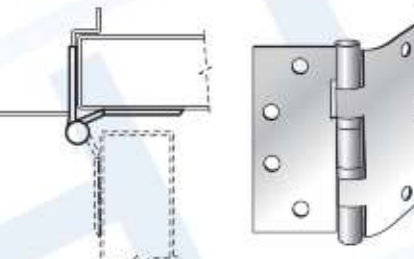
1. DETERMINE TYPE OF HINGE

- New opening use full mortise

The most common application is a flush door/frame/ wall condition using a hollow metal frame with a standard hollow metal door or wood door which is flush or 1/16" inset from the face of the frame, with a wall which is either flush (or inset from the face of the frame.) Recommended to hang door for 180° swing.

APPLICATION	BB91
	

- Existing opening determine whether you need

<p>A. Full Mortise - Both leaves are mortised, one leaf to the door and one leaf to the frame. (WD or HMD x WF or HMF)</p> 	<p>B. Half Mortise - One leaf is mortised to the door and the other is surface applied to the frame. (HMD x CIF)</p> 
<p>C. Full Surface - Both leaves are applied to the surface, one to the door and the other to the frame. (MCD or HMD x CIF)</p> 	<p>D. Half Surface - One leaf is mortised to the frame and the other is surface applied to the face of the door. (WD x WF or MCF x HMF)</p> 

HMD : Hollow Metal Door | WF : Wood Frame | MCD : Metal Clad Wood-Door | CIF : Chanel Iron Frame
 WD : Wood Door | HMF : Hollow Metal Frame | MCF : Metal Clad Wood-Frame





2 - Determine the frequency

How often is the door opened and closed in a given time frame? This is usually figured on a daily basis. Some general guidelines for high, medium, and low frequency are listed in table below.

For High : Use A156.1 Grade 1 (ie BB99)

Medium : Use A156.1 Grade 2 (ie BB91)

Low : Use A156.1 Grade 3 (ie PB91)

Frequency of Door Operation		
Type of Building and Door	Expected Frequency	
	Daily	Yearly
High Frequency		
Commercial store entrance	5,000	1,500,000
Department store entrance	5,000	1,825,000
Office building entrance	4,000	1,460,000
Hospital corridor and surgical doors	3,000	1,095,000
School entrance	1,250	456,250
School restroom door	1,250	225,000
Theater entrance	1,000	450,000
Store or bank entrance	500	150,000
Office stairwell	500	182,500
Office building restroom door	400	118,000
Medium Frequency		
Hospital consultation rooms	100	36,500
School corridor	80	15,000
Office building corridor	75	22,000
Restroom door	60	18,000
Storage room	50	18,250
Dwelling entrance	40	15,000
Low Frequency		
Residential entrance	40	15,000
Toilet door	25	9,000
Restroom door	25	9,000
Residential interior	20	7,300
Closet door	6	2,200

3 - Determine Hinge Size

Heavy weight hinges should be specified for heavy doors and for doors which are expected to receive high frequency use.

Recommended Size of Hinges per Door (Wood or Metal)

Door Leaf		Hinges	
Thickness	Width	Height	Gauge
1½(35)	Up to 36 (914)	3 ½(89)	.123
1½(35)	Over 36 (914)	4 (102)	0130
1½(44)	Up to 36 (914)	4 ½(114)	.134
1½(44)	Over 36-48 (914 -1219)	5 (127)	.134
1½(44)	Over 48 (1219)	6 (152)	.160
2-½ (51 - 64)	Up to 42 (1067)	5 (127) HW	.190
2-½ (51 - 64)	Over 42 (1067)	6 (152) HW	.203





4 - Determine Hinge Quantity

Builders Hardware Mortise and Surface Hinges, Pivots or Spring Hinges for Swinging Doors.

Doors up to 60" (1.52m) in height shall be provided with two hinges and an additional hinge for each additional 30" (0.76m) of door height or fraction thereof. The distance between hinges shall be permitted to exceed 30" (0.76m). Where spring hinges are used, at least two shall be provided.

Door Rating Hr.	Maximum Door Size		Minimum Hinge size		Type Hinge			
	Width ft.(m)	Height ft.(m)	Height (in (m))	Thickness in (m)				
For 1¼" (44.5mm) or Thicker Doors								
3 1½	1 ¾	¾	¾	4 (1.22)	10 (3.05)	4½ (114.3)	0.180 (4.57)	Steel, Mortise or Surface
3 1½	1 ¾	¾	¾	4 (1.22)	8 (2.44)	4½ (114.3)	0.134 (3.40)	Steel, Mortise or Surface
	1 ¾	¾	¾	3'2" (0.96)	8 (2.44)	6 (152.4)	0.225 (5.72)	Steel-Olive Knuckle or Paumelle
3 1½	¾	¾	¾	4 (1.22)	10 (3.05)	4 (101.6)	0.225 (5.72)	Steel Pivots (including top, bottom and intermediate)
1½	1 ¾	¾	¾	3(0.91)	5 (1.52)	4 (101.6)	0.130 (3.30)	Steel Mortise or Surface
1½	1 ¾	¾	¾	2 (0.61)	3 (0.91)	3 (76.2)	0.092 (2.34)	Steel Mortise or Surface
3 1½	1 ¾	¾	¾	3 (0.91)	7 (2.13)	4½ (114.3)	0.134 (3.40)	Steel, Mortise or Surface (labeled self closing spring type)
3 1½	1 ¾	¾	¾	3 (0.91)	7 (2.13)	4 (101.6)	0.105 (2.67)	Steel, Mortise or Surface (labeled self closing spring type)
For 1½"(34.93mm) Doors								
3 1½	¾	¾	¾	3 (0.91)	7 (2.13)	3½ (88.9)	0.123 (3.12)	Steel, Mortise or Surface
3 1½	1 ¾	¾	¾	2'8" (0.81)	7 (2.13)	3½ (88.9)	0.105 (2.67)	Steel, Mortise (spring closing)

Notes:

- (1) All hinges or pivots, except spring hinges, shall be of the ball-bearing type. Hinges or pivots employing other antifriction bearing surfaces are permitted if they meet the test requirements of ANSI A156.1. *Standard for Butts and Hinges*. Spring hinges shall be labeled.
- (2) 4½" (114mm) high, 0.180" (4.57mm) thick hinges shall be permitted for use on wide and heavy doors or doors that are subjected to heavy use or unusual stress.
- (3) Some manufacturers can provide fire doors with hinges of lighter weight that are not of the ball bearing type where they are part of a listed assembly and meet the test requirements of ANSI A156.1 *Standard for Butts and Hinges*, and have to a minimum of 350,000 cycles.
- (4) Pivot sets made up of components that are smaller and/or of a lighter gauge than shown in Table 2-8.1.1 shall be permitted to be used, provided they meet the requirements of ANSI A156.4, *Door Controls (Closers)* and are in accordance with the manufacturer's labeled service procedures.

5 - Determine Hinge Material

For Humid Area or exterior choose none fares material to avoid corrosion stainless steel or brass for none Humid Area choose steel base hinge.

There are three materials from which from which hinges are manufactured: Steel, Stainless Steel, and Brass. Each base material has different qualities.

Steel - This has great strength but it is a corrosive material. If the atmosphere that steel is used in is not stable, steel will begin to rust. The best application for steel is in a controlled environment, such as inside a building where the temperature and humidity are controlled.

Stainless Steel - This also has great strength. It is rust resistant and has decorative value in that it can be polished to a satin or bright finish. Stainless Steel can be used in chemical storage or highly corrosive areas and not become rusted. Other considerations may be geographical, such as on the seacoast or in industrial areas where acids or atmospheric conditions exist.

Brass - This material is noncorrosive, rust resistant, and vary decorative. However, it has less strength than the steel or stainless steel material. Brass is often used where appearance is of great concern as it may be polished and plated in various finishes. Both steel and stainless steel hinges may be used on listed fire rated or labeled door openings. Brass material may not be used on fire rated or labeled openings because of the low melting point.





Hinges

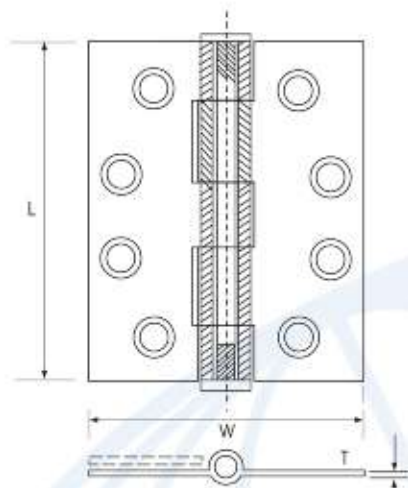
Full Mortise Template Hinges

STANDARD WEIGHT PLAIN BEARING "PB"

Specifications:

BRASS BASE METAL Meets ANSI A156.1-A2133	PB91
STAINLESS STEEL BASE METAL Meets ANSI A156.1-A5133	PB91
STEEL BASE METAL Meets ANSI A156.1-A8133	PB79

FINISHES: MOST FINISHES AVAILABLE



Use: For medium weight wood doors with steel or wood jambs. Recommended in residences, apartment houses, or all other medium weight doors receiving low frequency rating.

Pin: Flat button tip loose pin. In stainless steel for non-ferrous hinges.

N.B. Use ball bearing hinges on high or average frequency doors and all doors equipped with door closers and fire rated doors.

Specification (L x W)		Material Gauge		Standard Screw Size	
Inch	mm	Inch	mm	FHMS	FHWS
4.5 x 4.5	114.3 x 114.3	.134	3.4	12 x 24 x 1/2	12 x 1 1/4
4.5 x 4.0	114.3 x 101.6	.134	3.4	12 x 24 x 1/2	12 x 1 1/4
4.0 x 4.0	101.6 x 101.6	.118	3.0	10 x 24 x 1/2	10 x 1 1/4
4.0 x 3.5	101.6 x 88.9	.118	3.0	10 x 24 x 1/2	10 x 1 1/4





Hinges

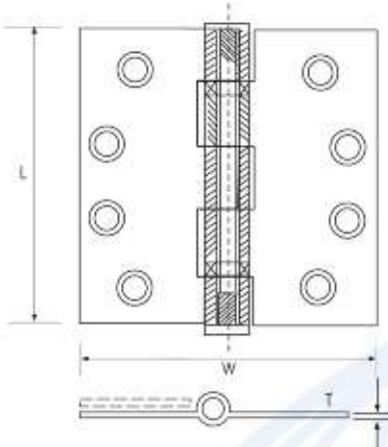
Full Mortise Template Hinges

STANDARD WEIGHT BALL BEARING "BB"

Specifications:

BRASS BASE METAL Meets ANSI A156.1-A2112	BB91
STAINLESS STEEL BASE METAL Meets ANSI A156.1-A5112	BB91
STEEL BASE METAL Meets ANSI A156.1-A8112	BB79

FINISHES: MOST FINISHES AVAILABLE



Use: For medium weight doors receiving medium frequency rating.

Pin: Flat button tip loose pin. In stainless steel for non-ferrous hinges.

Specification (L x W)		Material Gauge		Standard Screw Size	
Inch	mm	Inch	mm	FHMS	FHWS
5.0 x 4.5	127 x 114.3	.146	3.71	12 x 24 x 1/2	12 x 1 1/4
5.0 x 4.0	127 x 101.6	.146	3.71	12 x 24 x 1/2	12 x 1 1/4
4.5 x 4.5	114.3 x 114.3	.134	3.4	12 x 24 x 1/2	12 x 1 1/4
4.5 x 4.0	114.3 x 101.6	.134	3.4	12 x 24 x 1/2	12 x 1 1/4
4.0 x 4.0	101.6 x 101.6	.118	3.0	10 x 24 x 1/2	10 x 1 1/4
4.0 x 3.5	101.6 x 88.9	.118	3.0	10 x 24 x 1/2	10 x 1 1/4





Hinges

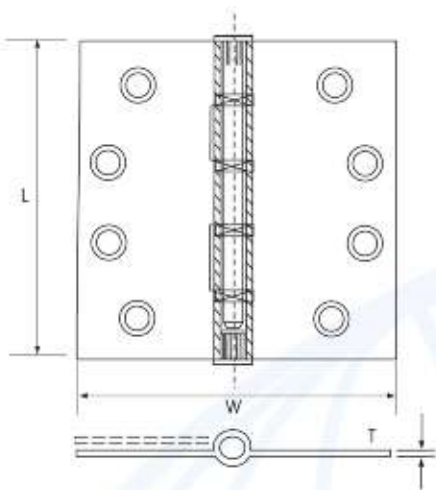
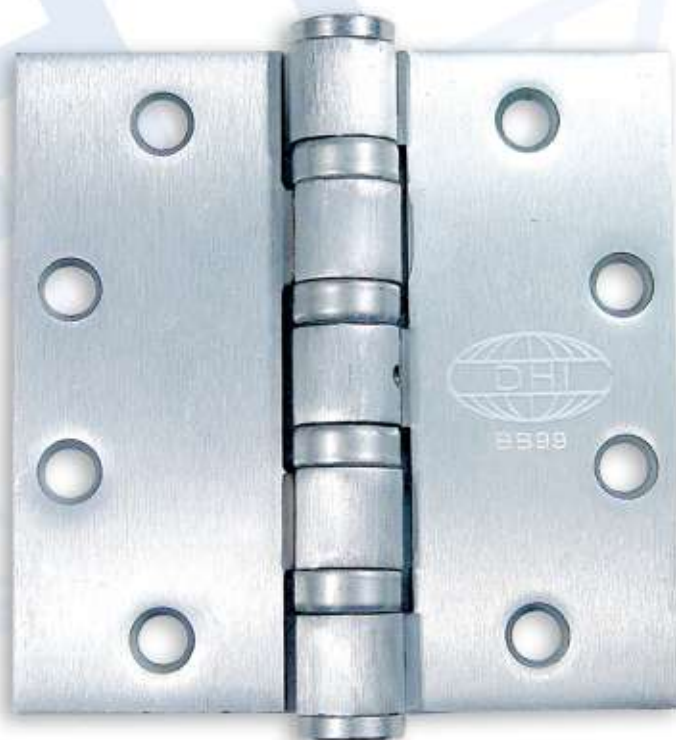
Full Mortise Template Hinges

HEAVY WEIGHT BALL BEARING "BB"

Specifications:

BRASS BASE METAL Meets ANSI A156.1-A2111	BB99
STAINLESS STEEL BASE METAL Meets ANSI A156.1-A5111	BB99
STEEL BASE METAL Meets ANSI A156.1-A8111	BB68

FINISHES: MOST FINISHES AVAILABLE



Use: on heavy doors or doors where high frequency rating is expected.

Recommended for entrance doors to public buildings, office buildings, hospitals, schools, apartment houses, etc. and corridor entrance doors to offices.

Pin: Flat button tip loose pin. In stainless steel for non-ferrous hinges.

Specification (L x W)		Material Gauge		Standard Screw Size	
Inch	Mm	Inch	Mm	FHMS	FHWS
5.0 x 4.5	127 x 114.3	.190	4.82	12 x 24 x 1/2	12 x 1 1/4
4.5 x 4.5	114.3 x 114.3	.180	4.57	12 x 24 x 1/2	12 x 1 1/4





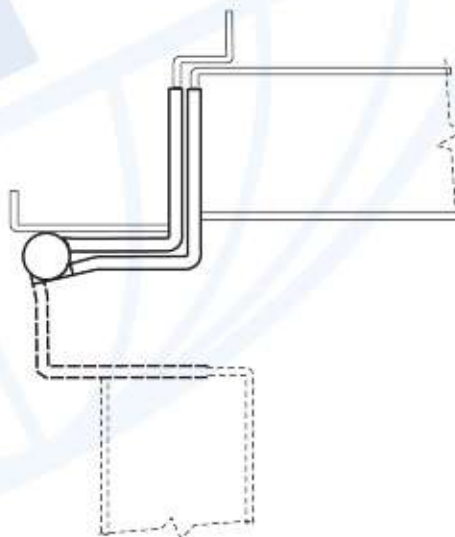
Hinges

Full Mortise Template Hinges

STANDARD WEIGHT & HEAVY WEIGHT

Specifications:	Heavy weight	Standard weight
BRASS BASE METAL Meets ANSI A156.1-A2121, A2122	SC99	SC91
STAINLESS STEEL BASE METAL Meets ANSI A156.1-A5121, A5122	SC99	SC91
STEEL BASE METAL Meets ANSI A156.1-A8121, A8122	SC68	SC79

FINISHES: MOST FINISHES AVAILABLE



SC 79, SC 91



SC 68, SC 99

Specification (L x W)		Material Gauge		Standard Screw Size	
Inch		Inch	mm	FHMS	FHWS
4.5	Standard Weight	.134	3.4	12 x 24 x 1/2	12 x 1 1/4
5.0	Standard Weight	.134	3.4	12 x 24 x 1/2	12 x 1 1/4
4.5	Heavy Weight	.180	4.6	12 x 24 x 1/2	12 x 1 1/4
5.0	Heavy Weight	.180	4.6	12 x 24 x 1/2	12 x 1 1/4





DOOR HARDWARE INTERNATIONAL

Hinges

Full Mortise Template Hinges

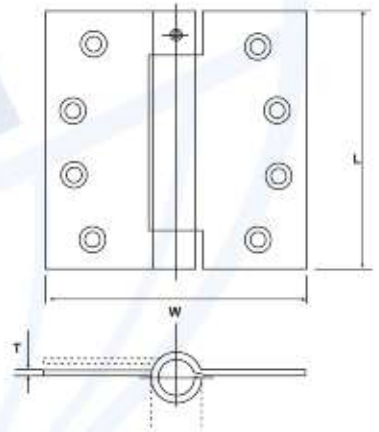
SPRING HINGE "SH" SERIES

Specifications:

STAINLESS STEEL BASE METAL SH 91
Meets ANSI A156.17-K51071

STEEL BASE METAL SH79
Meets ANSI A156.17-K81071

FINISHES: MOST FINISHES AVAILABLE



Specification (L x W)		Material Gauge		Standard Screw Size	
Inch	mm	Inch	mm	FHMS	FHWS
4.0 x 4.0	101.6 x 101.6	.118	3.0	10 x 24 x 1/2	10 x 1 1/4
4.5 x 4.0	114.3 x 101.6	.134	3.4	12 x 24 x 1/2	12 x 1 1/4
4.5 x 4.5	114.3 x 114.3	.134	3.4	12 x 24 x 1/2	12 x 1 1/4

Full Mortise Template Hinges

DOUBLE ACTING SPRING HINGE "DA" SERIES

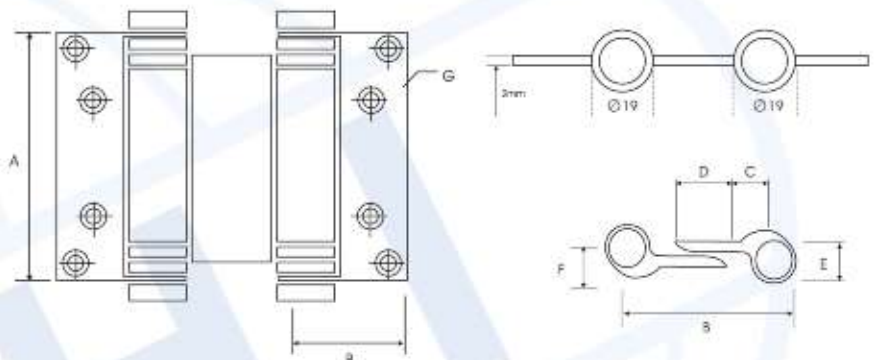
Specifications:

STAINLESS STEEL BASE METAL DA 91

FINISHES: MOST FINISHES AVAILABLE

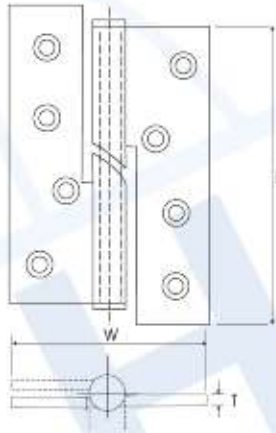


DA 91



Model	A	B	C	D	E	F	G	H
DA 91-4"	102(4")	40	16.5	23.5	25	16.3	5	54.5
DA 91-5"	127(5")	47.5	15.5	32	25	17.5	5.5	64
DA 91-6"	153(6")	51.5	16.5	35	25	17.5	5.5	70.5





Full Mortise Template Hinges

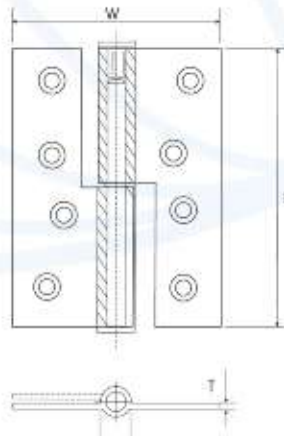
RISEING HINGE "RH" SERIES

Specifications:

STAINLESS STEEL BASE METAL RH 91

FINISHES: MOST FINISHES AVAILABLE

Specification (L x W)		Material Gauge		Standard Screw Size	
Inch	mm	Inch	mm	FHMS	FHWS
4.0 x 3.0	101.6X76.2	.118	3.0	10 x 24 x 1/2	10 x 1 1/4



Full Mortise

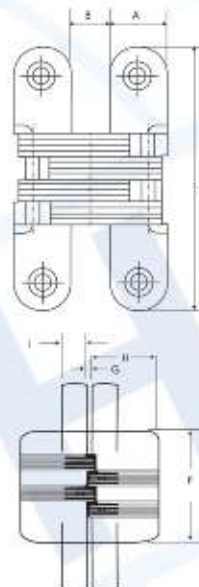
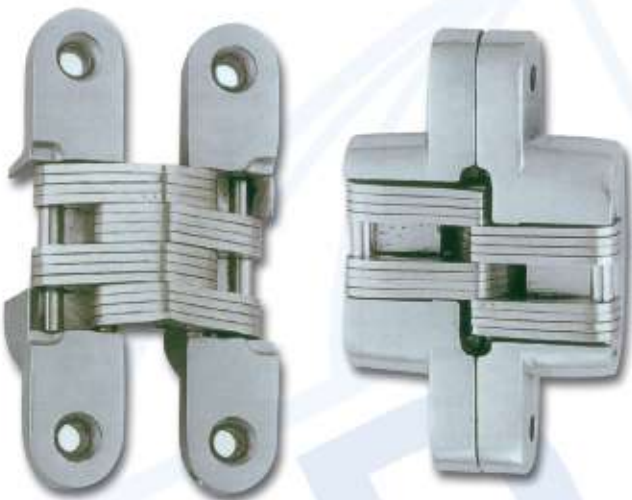
LIFT-OFF HINGE "LH" Series

Specifications:

STAINLESS STEEL BASE METAL LH 91

FINISHES: MOST FINISHES AVAILABLE

Specification (L x W)		Material Gauge		Standard Screw Size	
Inch	mm	Inch	mm	FHMS	FHWS
4.0X3.5	101.6x88.9	.118	3.0	10 x 24 x 1/2	10 x 1 1/4



Full Mortise INVISIBLE HINGE "IH" SERIES

Specifications:

ZINC ALLOY BASE METAL IH 11

FINISHES: MOST FINISHES AVAILABLE

Dimension	Model No.		
	IH 11-1	IH 11-2	IH 11-3
A	25.40mm	28.58mm	34.93mm
B	18.26mm	22.23mm	26.99mm
C	117.48mm	117.48mm	139.70mm
D	65.88mm	61.91mm	74.61mm
E	1.59mm	1.59mm	1.59mm
F	36.51mm	40.48mm	49.21mm
G	11.91mm	10.32mm	11.91mm





HANG THE DOOR

CLOSE THE DOOR

LOCK THE DOOR

PROTECT THE DOOR







Stops

FS41



Dome Stop - Low

Diameter : 1 3/4" (45mm)
Base Height : 1/8" (3.2mm)
Material: Die Cast Brass
Finish: Most Finishes Available

WS01



Convex - Wall Stop

Diameter : 2 1/2" (63mm)
Projection: 1" (25mm)
Material: Stainless Steel
Finish: US 32 , US 32D

FS61



Dome Stop - High

Diameter : 1 3/4" (45mm)
Base Height : 1/2" (12.5mm)
Material: Die Cast Brass
Finish: Most Finishes Available

WS51



Concave Wall Stop

Diameter : 2- 1/2" (63mm)
Projection: 1" (25mm)
Material: Stainless Steel
Finish: US 32 , US 32D

FS31



Pedestal Stop

Diameter : 2 1/4" (57mm)
Height : 3 1/4" (82mm)
Material: Cast Brass
Finish: Most Finishes Available

WS21



Wall Stop

Diameter: 2 1/4" (57mm)
Projection: 3 1/2" (90mm)
Material: Cast Brass
Finish: Most Finishes Available

FS71



Pedestal Stop

Diameter : 2 1/4" (57mm)
Height : 3 1/2" (90mm)
Material: Cast Brass
Finish: Most Finishes Available

WS41



Wall Stop & Hold

Diameter: 2 1/4" (57mm)
Projection: 3 1/2" (90mm)
Material: Cast Brass
Finish: Most Finishes Available





Holders



DH81

Door Holder

Base : 1 5/16" x 2" (33 x 51mm)
Drop : 5" (127mm)
Material: Cast Brass
Finish: Most Finishes Available



WS31

Wall Stop

Height: 3" (77mm)
Diameter: 1" (25mm)
Material: Cast Brass
Finish: Most Finishes Available



OS01

Overhead Door Stop

Projection: 4 3/4" (121mm)
Drop: 1 1/8" (28mm)
Material: Stainless Steel
Finish: US 32 , US 32D



CH11

Coat Hook & Bumper

Height: 3 1/2" (90mm)
Projection: 3 1/4" (82mm)
Material: Stainless steel
Finish: US 32 , US 32D



DP10

Door Plunger

Height: 9 1/4" (235mm)
Plunger Throw: 1 3/4" (44mm)
Material: Aluminum
Finish: US 27



FS01

Door Stop & Holder

Holder : 3" x 3 7/16" (76 x 87mm)
Projection: 1 15/16" (49mm)
Floor Strike: 2 3/16" x 4 1/8" (56 x 105mm)
Strike Height: 1 1/4" (32mm)
Material: Cast Brass
Finish: Most Finishes Available



DP11

Door Plunger

Height: 5 3/4" (146 mm)
Plunger Throw: 1.25" (33mm)
Material: Cast Brass
Finish: Most Finishes Available



WS91

Wall Stop & Hold

Holder : 2 3/4" x 2 1/2"
Projection: 2 1/4"
Keeper: 1" x 2"
Keeper Height: 2"
Material: Cast Brass
Finish: Most Finishes Available





DOOR HARDWARE INTERNATIONAL

Pulls



PH01

Pull Handle

Diameter: 3/4"
C.T.C. : 6" , 8" , 10" , 12"
Material : Stainless steel
Finish: US32 , US32D



CP01

Cylinder Pull

Size : 43x91mm
Material : stainless steel
Finish: US32 , US32D



PH02

Offset Pull Handle

Diameter: 3/4"
C.T.C. : 6" , 8" , 10" , 12"
Material : Stainless steel
Finish: US32 , US32D



CP02

Cylinder Pull

Size : 43x91mm
Material : stainless steel
Finish: US32 , US32D



PH03

Offset Pull Handle

Diameter: 3/4"
C.T.C. : 6" , 8" , 10" , 12"
Material : Stainless steel
Finish: US32 , US32D



PP01

Push Plate

Size : 4" x 16"
Material : Stainless Steel
Finish: US32 , US32D



RP01

Flush Door Pull

Size : 70 x 200mm
C.T.C. : 72 mm
Material : Stainless Steel
Finish: US32 , US32D



RP04

Ring Pull

Size : 44 x 62mm
Material : Stainless Steel
Finish: US32 , US32D





Pulls & Protection Plates



FP03

Flush Pull

Size : 3 3/8" x 5" (83x125mm)
Material : Stainless Steel
Finish: US32 , US32D



FP01

Flush Pull

Diameter : 90mm
Material : Stainless Steel
Finish: US32 , US32D



DE04

Door Edge

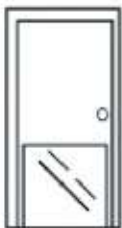
Height: 42" (1070mm) Standard
Full Door Height Available
Width : 1 3/4" (44mm)
Material: Stainless steel
Finish: US32 , US32D



DE10

Door Edge

Height: 42" (1070mm) Standard
Full Door Height Available
Width : 1 3/4" (44mm)
Material: Stainless steel
Finish: US32 , US32D



AP01

Armor Plate

Size:40"H * Door width less 2"
Thickness : 0.05" (1.2mm)
Material : Stainless Steel
Finish : US32D , US32



KP02

Kick Plate

Size:8"H * Door width less 2"
Thickness : 0.05" (1.2mm)
Material : Stainless Steel
Finish : US32D , US32



MP03

Mop Plate

Size: 4"H * Door width less 2"
Thickness : 0.05" (1.2mm)
Material : Stainless Steel
Finish : US32D , US32



SP04

Stracher Plate

Size: 8"H * Door width less 2"
Thickness : 0.05" (1.2mm)
Material : Stainless Steel
Finish : US32D , US32





Indicators & Signs

IB2

Indicator Bolt

Size: 89 x 46mm
 Bolt Projection : 23mm
 Outside Indicator Size : 43 x 50mm
 Door Thickness : Up to 40mm
 Material : Stainless Steel
 Finish : US32D , US32



IB2

Indicator Bolt

Size: 66 x 41mm
 Bolt Projection : 23mm
 Outside Indicator Size : 42 x 62mm
 Door Thickness : Up to 45mm
 Material : Stainless Steel
 Finish : US32D , US32



IB4

Mortise Indicator Bolt

Backset : 57.5mm
 Face & Strike Plate : 22.5 x 76mm
 Deadbolt Projection : 11mm
 Door Thickness : Up to 45mm
 Material : Stainless Steel
 Finish : US32D , US32



Model : SP01H
 Size : Dia. 76 x 1.5mm
 Material : Stainless Steel



Model : SP01FR
 Size : Dia. 76 x 1.5mm
 Material : Stainless Steel



Model : SP01B
 Size : Dia. 76 x 1.5mm
 Material : Stainless Steel



Model : Female SP01F
 Male SP01M
 Size : Dia. 76 x 1.5mm
 Material : Stainless Steel



Model : Male SP02M
 Female SP02F
 Size : 100 x 100 x 1.5mm
 Material : Stainless Steel



Model : Pull SP01PL
 Push SP01PH
 Size : Dia. 76 x 1.5mm
 Material : Stainless Steel





Accessories



DG41

Door Guard

Material: Solid Brass
Finish: Most Finishes Available



DG51

Door Guard

Material : Stainless Steel
Finish: US32 , US32D



DG61

Door Guard

Material : Stainless Steel
Finish: US32 , US32D



DV71

Door Viewer

Door Thickness: Up to 2" (51mm)
View Angle: 200°
Material : Brass
Finish: Most Finishes Available



TB11

Tabular Bolt

Latch Front : 20" x 44mm
Backset : 32mm
Material : Brass
Finish : Most finishes available



RL91

Roller Latch

Latch Face : 1" x 3 3/8" (25x86mm)
Strike : 1 11/16" x 2 1/4" (43x57)
Material: Cast Brass
Finish : Most Finishes Available



EU ES20

Electric Strike

Voltage : 12



ES21 (Fail Safe) ES22 (Fail Secure)

Electric Strike

Voltage : 12 or 24





DOOR HARDWARE INTERNATIONAL

Bolts



FB51-12

Flush Bolt - 12"

Face : 1" X 6-3/4" (25 x 172mm)
Strike : 15" / 16" x 2 1/4" (24x57mm)
Material: Extruded Brass
Finish: Most Finishes Available



FB51-6

lever Flush Bolt - 6"

Face : 1" X 6-3/4" (25 x 172mm)
Strike : 15" / 16" x 2 1/4" (24x57mm)
Material: Extruded Brass
Finish: Most Finishes Available

FB01

Flush Bolt

Width : 3/4" (19mm)
Length : 6" , 8" , 10" or 12"
Material: Brass
Finish: Most Finishes Available

FB11

Flush Bolt

Width : 5/8" (16mm)
Length : 6" or 12"
Material: Stainless Steel
Finish: US32 , US32D

BB11

Barrel Bolt

Width : 1" (25mm)
Length : 4" , 6" , 8" or 10"
Material: Brass
Finish: Most Finishes Available

SB61

Surface Bolt - 8"

Bolt Length : 8" (203mm)
Material: Steel
Finish: Most Finishes Available

DP21

Dust Proof Strike

Face: 1 3/8" X 2 7/8" (35x73mm)
Barrel Diameter : 1" (25mm)
Depth : 2 3/16" (56mm)
Material: Brass
Finish: Most Finishes Available

DP11

Dust Proof Strike

Face Diameter : 1" (25mm)
Barrel Diameter : 3/4" (19mm)
Depth : 1.5" (39mm)
Material: Stainless Steel
Finish: US32 , US32D





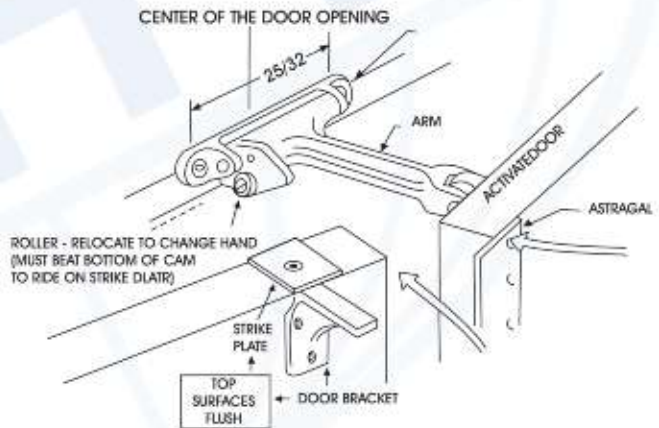
Coordinators



DC21

Coordinating Device

5 1/2 x 1 1/8" (140 x 29mm) Plate
Material: Cast Brass
Finish: Most Finishes Available



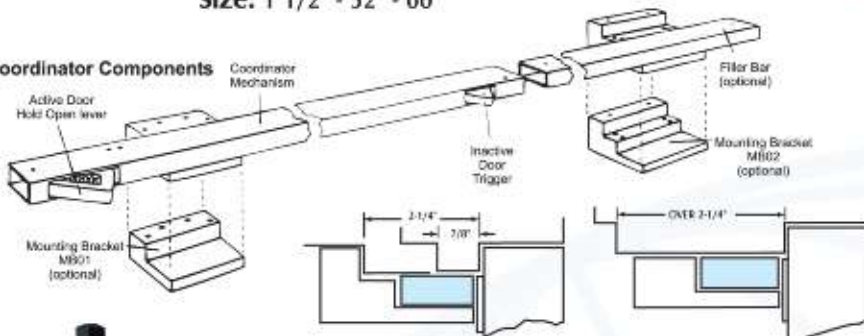
DC22

Stop Mounted Coordinator

Material: Aluminum
Finishes: Aluminum, Black
Standard Widths: For use with
Size: 1 1/2" - 52" - 60"



Coordinator Components



Model No.	Range of Jamb Opening Width Dim. L	Mechanism Length Dim. C	Door Widths		Jam Opening Dim. A + B = Dim. L
			Active Dim. A	Inactive Dim. B Widths	
CD 22-52	54" THRU 96"	52"	36"	36"	72"
CD 22-60	62" THRU 112"	60"	54"	54"	108"



FB25-12

Automatic Flush Bolt - 12"

Face : 1" x 6 - 3/4" (25 x 172mm)
Strike : 15" / 16" x 2 1/4" (24x57mm)
Material: Extruded Brass
Finish: Most Finishes Available



FB25-6

Automatic Flush Bolt - 6"

Face : 1" x 6 - 3/4" (25 x 172mm)
Strike : 15" / 16" x 2 1/4" (24x57mm)
Material: Extruded Brass
Finish: Most Finishes Available



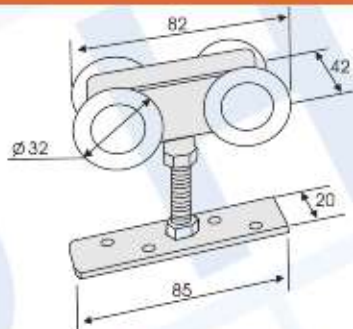


DOOR HARDWARE INTERNATIONAL

Sliding Door Hardware

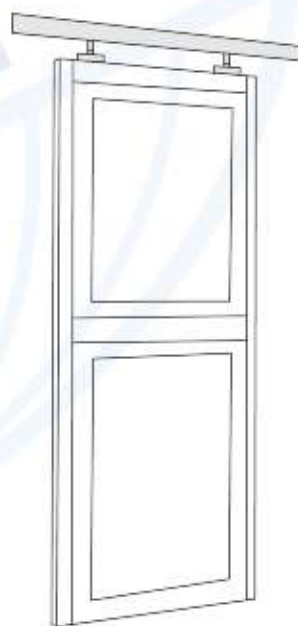


S150

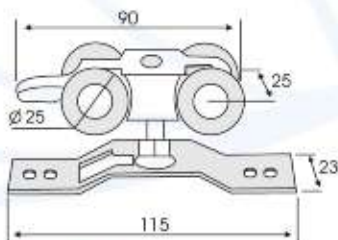


Specifications:

Door weight:	150kgs
Door width:	1500mm
Door thick:	50mm



S120



Specifications:

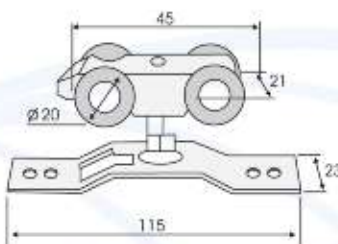
Door weight:	120kgs
Door width:	1000mm
Door thick:	25-55mm



STOP



S080



Specifications:

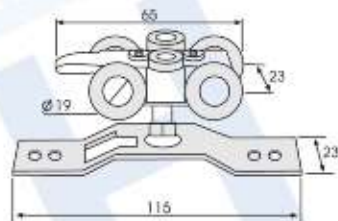
Door weight:	80kgs
Door width:	1000mm
Door thick:	25-50mm



Bottom Roller Guide

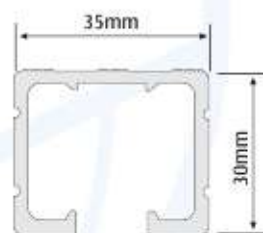


S060



Specifications:

Door weight:	60kgs
Door width:	1000mm
Door thick:	18-40mm



Aluminum Track
3meter Long

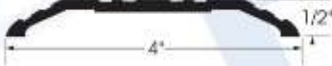




Weatherstripping

T210

Threshold - Saddle



Width : 4" (101mm)
Height: 1/2" (13mm)
Material: Alluminum
Finish : US27

T210

Threshold - Panic



Width : 5" (127mm)
Height: 1/2" (13mm)
Material: Alluminum
Finish : US27

DB01

Door Bottom



Width : 1 3/4" (44mm)
Length: To match Door Size
Material: Alluminum
Finish: US27

DS01

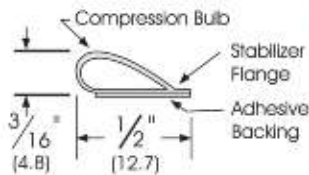
Door Silencer



Material: Rubber
Diameter: 1/2" (13mm)
Length : 1 1/16" (27mm)
Finish: Gray

JS01

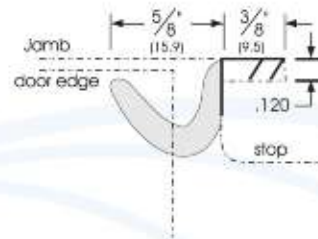
Self Adhesive Weatherstripping



Width : 1/2" (13mm)
Projection: 3/16" (5mm)
Material: Rubber
Finish: Brown

JS05

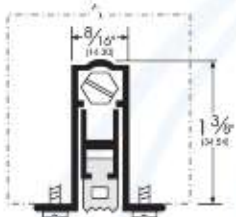
Jamp Seal



Width : 1/2" (13mm)
Projection: 5/8" (16mm)
Material: Rubber
Finish: Brown

DB02

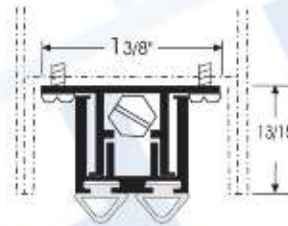
Automatic Door Bottom (Wood Door)



Material: Alluminum
Depth : 1 3/8" (35mm)
Finish: US27

DB03

Automatic Door Bottom (Metal Door)



Material: Alluminum
Depth : 1 3/15" (22mm)
Finish: US27



PROUD MEMBER OF:



ALITCO LLC

www.alitcogroup.com

ALDREES INDUSTRIAL & TRADING CO LLC

110 Al Nasr Office Plaza Bldg., Oudmetha

P.O. Box: 120292, Dubai, U.A.E.

Tel : +971 4 396 6966

Fax : +971 4 357 2898

Email : alitcodubai@alitcogroup.com



DREES HARDWARE INTERNATIONAL



شركة الدريس للصناعة و التجارة (اليتكو)
ALDREES INDUSTRIAL & TRADING CO. (ALITCO)





شركة الدريس للصناعة و التجارة (اليتكو)
ALDREES INDUSTRIAL & TRADING CO. (ALITCO)



PROUD MEMBER OF:



ALDREES INDUSTRIAL & TRADING CO. (ALITCO)

P.O BOX : 15273

RIYADH : 11444

Tel : +966 11 295 0025

Fax : +966 11 295 0013

www.alitco.com.sa



DREES HARDWARE INTERNATIONAL