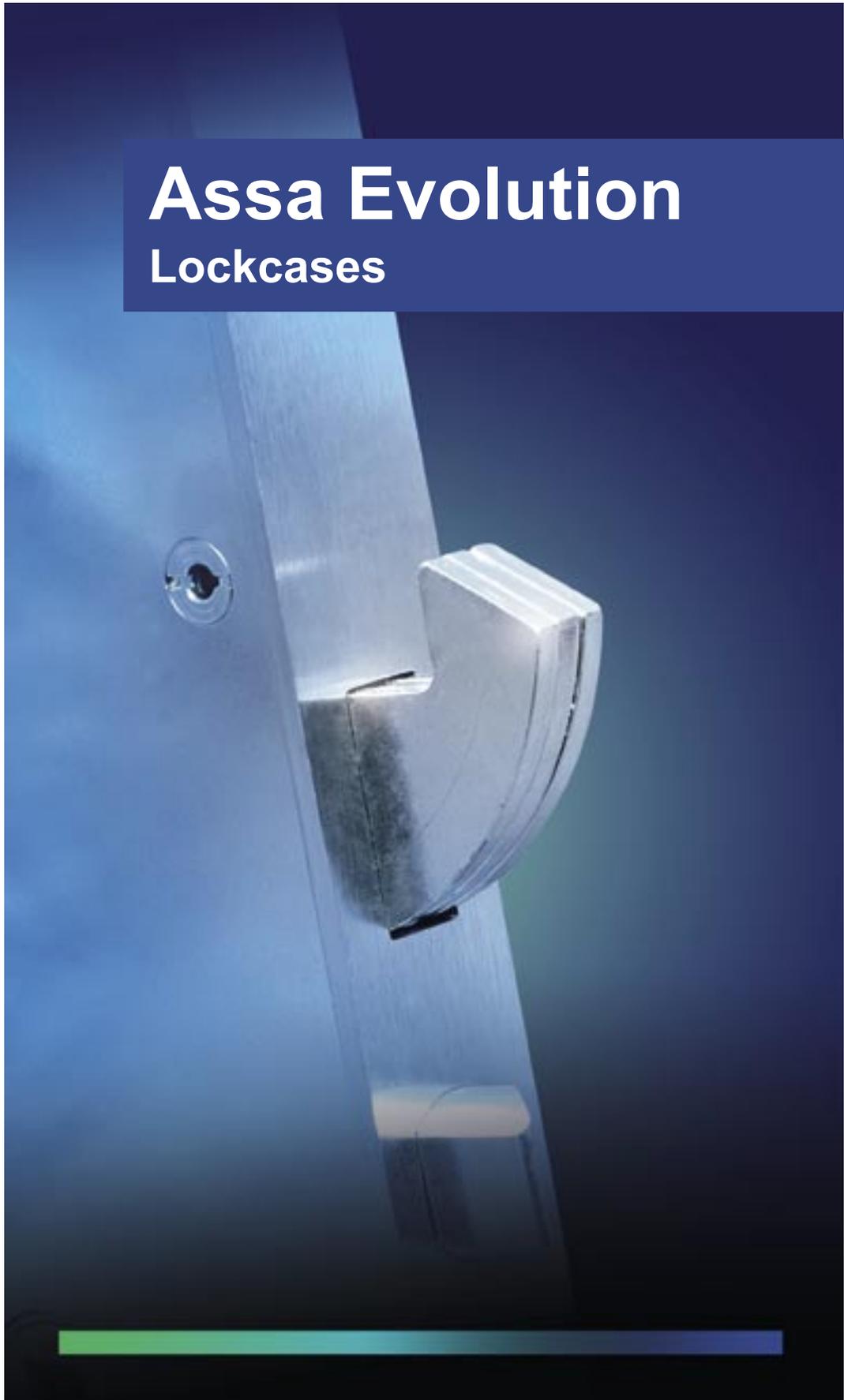


Assa Evolution

Lockcases



ASSA[®]

An ASSA ABLOY Group company

ASSA ABLOY

Assa – The security company

For us at Assa it is natural that a new range of lock cases is introduced now. There are a number of factors in our environment that have lead to this, for example the increased use of electromechanical locks in residential buildings, new EN standards for emergency exit devices, etc. Both of the above are examples of challenges that we have faced with our well-recognized Modular lock cases.

Evolution cannot be stopped.

We are proud to lead the development of products that will meet existing and future requirements from end users for security, safety and convenience.

One step in our effort to always be in the lead of technical innovation is the introduction of our new range of lock cases, which we have chosen to be called Assa Evolution.



Content

Product numbering – structure	4
200 series	5
300 series	6
400 series	7
600 series	8
700 series	9
800 series	10
Dimensional drawings	11
Micro switch functions	11
Cross refernce chart Evolution / Modular ...	12



Three different backsets – all functions

The introduction of Assa Evolution means that, with few exceptions, all lock functions are available in all three backsets:

35 mm

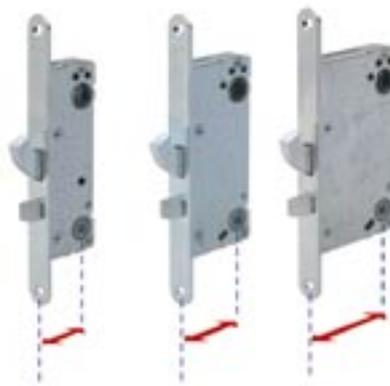
The locks with 35 mm backset replaces the existing narrow profile lock range. This change is done due to a change in requirements from architects, specifiers and door manufacturers.

50 mm

This is the same backset as used today on the majority of our modular lock cases. All locking functions are available in 50 mm backset.

70 mm

Many doors have extra insulation, i.e. fire rated doors and sound dämpande, and are quite often standard doors in their basic design. On these types of doors a larger backset is preferred so that a person still can easily open and close the door without risking that their hands get stuck.



Logical part numbers

Assa Evolution has a logical product numbering:
First digit indicates type of lock, i.e. escape locks, motor locks etc.
Second and third digit indicates type of locking function,

i.e. latch and hook bolt, single latch, etc.
Appendix numbers indicates backset, i.e. -35 = 35 mm backset, -50 = 50 mm backset, etc.

Series	Function	Latch	90°	360°	Split	Escape	Elektro-
		locks	Dead locks	Dead locks	spindle		mechnical
		2	3	4	6	7	8
Latch/hook bolt	10		310	410			810 exkl -35
Hook bolt	11		311	411			811
Lever latch bolt	12	212					
Roller latch/hook bolt	13		313				
Double latch, snib lock-back	20	220			620		
Double latch, key lock-back	21	221			621		
Double latch, no lock-back	22	222					
Double latch, secure key lock-back	23	223					
Double latch, cylinder lock-back	24				624		
Latch/hook bolt escape	25						
Hook bolt, escape	26						
Latch bolt, snib lock-back	30	230					
Latch bolt, key lock-back	31	231					
Latch bolt, no lock-back	32	232					
Latch bolt, key lock-back, escape	34	234					
Latch bolt, no lock-back, escape	35	235					
Latch bolt, no lock-back, escape	36	236					
Latch/hook bolt, single release	40				640		
Latch/lock bolt, single escape release		41					741
Double function lock (2000)	2002			2002 exkl -35			

200-series

200-series

The 200 series locks in Assa Evolution all have latch bolts. They are not approved as burglar resistance locks but they are still some of the most important locks in our range. These locks are for example used in fire doors or in doors used for technical areas such as high voltage rooms etc, where life protection is essential.

The 200 locks with single or double latch are often used in combination with an electric strike plate.

All functions are available in 35, 50 and 70 mm back-set.

Mortise latch 212

Used on doors with lever handle only. Latch bolt retracts by pressing the lever handle.

Double night latch 220, 221, 222, 223

Upper latch bolt automatically deadlocked.

Key / thumb turn retracts all latch bolts.

Lever handle retracts lower latch bolt.

Night latch 230, 231, 232

Upper latch bolt automatically deadlocked.

Key / thumb turn retracts all latch bolts.

Some locks are supplied with a lock-back function. This function allows the user to lock back the latch bolts. The function is achieved by pushing back the latch bolts and then locking it in this position by pushing a snib or using a token key.

Lock cases with lock-back function			
Product	Snib	Key	None
220	x		
221		x	
222			x
223	x*		
230	x		
231		x	
232			x

*Snib with locking nut. Used for securing the snib in normal or lock-back position.



All locks with lever operated latch bolt and/or cylinder operated latch bolts (without lock-back function) are approved for use in fire doors.



212-50



220-50



231-50

300-series



310-50

311-50

The 300 series locks in Assa Evolution all have a dead bolt of hook bolt type. The hook bolt design makes these locks also suitable for sliding doors.

They are not approved as burglar resistance locks but they are still some of the most important locks in our range. These locks are for example used in fire doors or in doors used for technical areas such as high voltage rooms etc, where life protection is essential.

The 200 locks with single or double latch are often used in combination with an electric strike plate.

All functions are available in 35, 50 and 70 mm back-set.

Hook bolt sash lock 310 Connect

Key / thumb turn operates hook bolt.

Lever handle operates latch bolt

Hook bolt lock 311 Connect

Key / thumb turn operates hook bolt..

Hook bolt roller lock 313 Connect

Key / thumb turn operates hook bolt..

Roller latch retracts by striker plate.



All locks with lever operated latch bolt are approved for use in fire doors.

400-series

The 400 series locks in Assa Evolution all have a dead bolt of hook bolt type and meets today's requirements for a high security mortise lock. All locks in the 400 series have 360° key turn and through a unique patented design of the hook bolt mechanism, these locks are as easy to operate as the old modular dead bolt locks when it comes to operation.

The design of the hook bolt is special and makes the bolt jam into the striking plate if subject to resist heavy attack. Through the new design of the hook bolt and the operating mechanism, it will be practically impossible to break the door and frame apart during a forced entry attack.

The 400 series locks also includes the Assa Evolution 2002 lock, a development of our well-known modular 2000 lock. Assa 2002 is available in 50 and 70 mm backset.

All other functions are available in 35, 50 and 70 mm backset.

Hook bolt lock 410 Connect

Key / thumb turn operates hook bolt

Lever handle operates latch bolt.

Hook bolt lock 411 Connect

Key / thumb turn operates hook bolt

Hook / latch bolt lock 2002 Connect

Key / thumb turn operates hook bolt

Convenient mode – locking from outside by key, locking from inside by thumb turn (or key).

Secure mode – by pushing the snib on the locks front end, the inside thumb turn function is blocked. Unlocking by key from outside / inside automatically returns the lock function to convenient mode.

Lever handle operates latch bolt.



All locks with lever operated latch bolt are approved for use in fire doors.



410-50

411-50

2002-50

600-series



Split spindle locks have been available from Assa since years back. The term split spindle refers to the technical solution but has become the description of the locking function that these locks offer, always openable from inside by lever handle.

This function have for years been used in hotels but have also offers good solutions for other type of buildings such as offices, schools and industries.

The 600-series locks have both double latch locks as well as hook / latch bolt locks.

All locks are available in 35, 50 and 70m mm backset.

Hook bolt sash lock 640

Outside – Key operates hook bolt. Lever handle operates latch bolt.

Inside – Thumb turn operates hook bolt. Lever handle retracts hook and latch bolt.

Double night latch 620, 621 and 624

Outside – Key retracts all bolts. Lever handle operates latch bolt.

Inside – Lever handle retracts all bolts.

Lock cases with lock-back function			
Product	Snib	Key	None
620	x		
621		x	
624			x

 All locks with lever operated latch bolt and/or cylinder operated latch bolts (without lock-back function) are approved for use in fire doors.

700-series

Assa Evolution is also available for Assa Emergency exit products with the indication number 700 for escape functions. The 700 series has the same hook-bolt construction as all the other deadbolt locks in the Assa Evolutions assortment.

The European standards for emergency escape, SS EN 1125 and SS EN 179 will influence the features in the locks case that will be combined with the emergency accessory.

Based on this Assa exit device assortment is sold in complete sets with lock case and accessories. The combination is tested and fulfils all demands to these standards.

Lock case and accessories are designed so that they may not be combined in a faulty way.

A lock case in an exit device set is on one of the components why these lock cases are only mentioned briefly in this catalogue.

Assa Evolution with Assa 1125

Assa panic bars are available for single and double door in 35, 50 and 70 mm back set. Assa panic bars fulfil SS EN 1125. A variety of combinations are available with electric strikes. These locks have the same hook bolt as the 400-series and are designed with the same features as the other Evolution locks.

Assa Evolution with Assa 179

SS EN 179 fulfils the other type of the European emergency escape standards. Assa has accessories both for latch / bolt locks and double latch locks which also has a construction with make it possible to re-enter after escape.

Both these types of locks may be combined with electric strikes.

Lock cases with lock-back function			
Product	Snib	Key	None
620		x	
621			x
624			x



800-series



The electro mechanical locks in the Assa Evolution series has the same strong hook bolt construction as the 400-series and are mentioned with indication number 800.

The locks have low energy consumption, which is of great advantage for cables and energy backup. Assa 810 and 811 are also very fast and open a lock with a speed of 0,3 seconds. This make Assa locks usable also for installation in sliding doors where most locks do not function. The 800-series meet the requirements in the Swedish standard SS3079 class 3 and also requirements for electro mechanical locks. Assa 810 is available in back set 50 and 70 mm. Assa 811 is available in backset 35, 50 and 70 mm.

Assa 810 Connect – latch / hookbolt lock

The build in motor is steering the movement of the hook-bolt, in and out. The hook bolt can also be manoeuvres by the key or the handle also when no power is connected to the lock. The handle manoeuvres the latch

Assa 811 Connect – hook bolt lock

The build in motor is steering the movement of the hook-bolt, in and out. The hook bolt can also be manoeuvres by the key or the handle also when no power is connected to the lock.

Steering unit

Assa 810S and 811S are connected to a steering unit, DAC. The steering unit works as a bridge to for example an access control system.

Dimensional drawings and cross reference charts

Modular Classic	Assa Evolution
560	220
562	221
564	223
565	310
566	313
587	310
1498	212
1560	222
2000	2002
2587	311
2588	311
5584	230
5585	231
6580	231
6585	232
7787	410
8560	235
8561	236
8562	234
8765	410
9787	411
9788	411

Split spindle	Assa Evolution
504	620
506	621
509	624
1520	640

Motor locks	Assa Evolution
8000	810
8001	811
8087	811

Narrow profile	Assa Evolution
1362	221
1380	231
1385	231
1398	212
13585	232
13787	411

Security striking plates Classic	Security striking plates Assa Evolution
1887-1	1487-1
1887-2	1487-2
1887-3	1487-3
1887-4	1487-4
1887-5	1487-5
1887-9	1487-9

M1

Bi-stable function. Microswitch is depressed when bolt is in withdrawn position, changes when bolt leaves withdrawn position.

M2

Alarm by-pass and indication of exit. Two micro-switches. One has bistable function and is depressed at un-thrown bolt. Changes when the bolt leaves the withdrawn position. The other has momentary function indicating use of exit thumb turn. Is depressed and changes when exit thumb turn is released.

M3

Bi-stable functions. Two microswitches. One is depressed at unthrown bolt. The other is depressed at thrown and deadlocked bolt.

M5

Bi-stable function. Microswitch depressed at thrown and dead-locked bolt. Indication of bolt thrown and deadlocked. Changes when deadlocking is released and bolt leaves extended position.

M6

Momentary function. Microswitch depressed and changed when opening with key or thumbturn.

M7

Momentary function. Microswitch indicates movements of the emergency exit accessory. Microswitch depressed and changed when emergency exit accessory is used. Returns when thumbturn is released.

M9

Momentary function. Microswitch indicates position of the cylinder latch. Is depressed and changed in operation.

M10

Indication. Two micro-switches with momentary function. One microswitch indicates use of emergency exit thumb turn, the other indicates use of key or thumb turn.

M11

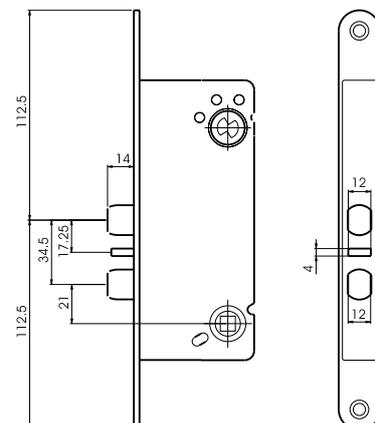
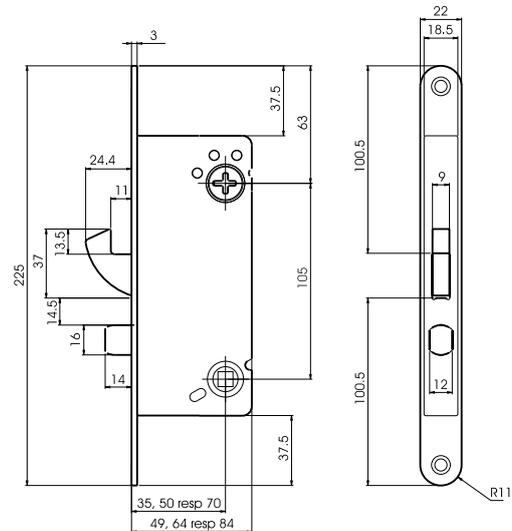
Bistable function. Indicates position of lock-back function.

M13

Bi-stable function. Two microswitches. One is depressed at unthrown bolt. The second is depressed when thumbturn is disabled.

M14

Function M14 is a combination of function M7 and M9.





The ASSA ABLOY Group is the world's leading manufacturer and supplier of locking solutions, dedicated to satisfying end-user needs for security, safety and convenience.

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