MUL-T-LOCK®

PRODUCT CATALOGUE 2015

About Mul-T-Lock®

Founded in 1973, Mul-T-Lock® has continually focused on High Security locking solutions, manufactured using some of the most sophisticated machinery of its kind in the world. The company serves its global markets with 13 selling units in the USA, Canada, UK, France, Italy, Belgium, Czech Republic, Argentina, Mexico, Turkey, South Africa, Kenya and Tanzania, and via distribution channels in nearly 70 other countries.

Trademarks, including "Mul-T-Lock®", "Interactive®", "MT5®" and the Muscleman Logo, are registered in Mul-T-Lock's name in dozens of countries around the world and have become well-known marks that distinguish and characterize Mul-T-Lock's high quality products.

As part of the company's overall strategy, it maintains very close relationships with its network of authorized locksmiths, reflecting its commitment to service excellence in every aspect of its activities. This includes award-winning manufacturing, efficient delivery and logistics.

In this way 100 million Mul-T-Lock® users receive customer service and support via 20,000 locksmiths and service centers worldwide. Mul-T-Lock® is fully owned by ASSA ABLOY, the global leader in total door opening solutions. From locks to security doors, entrance automation and access control systems, ASSA ABLOY has an annual turnover of €5.5 billion and employs approximately 45,000 people worldwide.

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DIGITAL RESIDENTIAL SOLUTIONS

ENTR™ Door Unit

Function

Easy to install, maintain and use, ENTR™ can be retrofitted onto existing doors, giving customers an upgraded solution in no time and with minimal effort. With ENTR's App, users can activate their locks remotely from their smartphone, giving them control and management capabilities. Moreover, you'll be able to offer your customers a range of credentials to upgrade their ENTR™ solution and increase your sales opportunity.

Application

ENTR™ is ideal for both residential and office use.
With a range of credentials to upgrade your customer's ENTR™ solution, you'll be able to increase your upselling opportunities.

Solution Highlights

- Transforms any door into a smart one with a simply and affordable retrofit
- Ideal for most door types and sizes:
  - Internal cylinder dimension: minimum 35 mm up to 78 mm gaps of 5 mm
- Easy to install – no drilling or wiring
- Battery operated – not dependent on power or cables
- Automatic locking – shut the door and it will automatically lock
- Variety of credentials available – customers can select one or any combination of options
- Secure, wireless communication between system elements using AES128 encryption standard
- Provides users with mobile connectivity – meaning they can perform actions and monitor the ENTR™ from their smartphone or any other Bluetooth device
- Mechanical key override – backup solution
- LED indications:
  - Low battery
  - Fault during lock / unlock operation
  - Mute
  - Open door
  - Auto / manual mode

Specifications

Bluetooth Smart Technology (between the door unit and smartphone or other connected device)	Bluetooth 4.0
Communication Frequency (between the door unit and credentials)	2.4 GHz
Battery Type	Rechargeable Lithium-ion
Battery Power	7.4V 2600mAh
Charging Input	12VDC @ 1A
Dimensions	150 mm x 55 mm x 54 mm
Weight	380g
Operating Temperature	-10°C ~ +50°C
Protection Rating	IP44
Mobile App Support	iOS 7 and up; min iPhone 4S Android 4.3 and up; min Nexus4, Samsung S3, Galaxy Note

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ENTR™ Touchpad Reader

Function

Users can predefine up to 20 personal codes, program them into the touchpad and securely unlock the door.
Hardened for outdoor use, the ENTR™ is also easy to install.

Application

ENTR™ is ideal for both residential and office use. The ENTR™, Touchpad Reader allows users to unlock doors by simply inputting their personal authorization code.

Features

• Up to 20 different codes. First code is defined as the management or administrator code
• Easy to install – no drilling or wiring
• Battery operated – 2xAA
• Secure wireless communication between system elements via AES128 encryption standard
• LED indications:
  - Lock / unlock successful
  - Lock / unlock failed
  - Low battery
  - Door unit's hazard indication

Specifications

Battery Type	2X AA Alkaline
Communication Frequency (between the door unit and credentials)	2.4 GHz
Dimensions	140 mm x 50 mm x 40 mm
Weight	150g
Operating Temperature	-20°C ~ +60°C
Protection Rating	IP55

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ENTR™ Fingerprint Reader

Function
The fingerprint gives users more control and functionality allowing them to use either an authorized fingerprint or code to unlock their doors. The device supports up to 20 users. The master user can define schedules for use, edit the defined users and review entry records on the LED screen.

Application
ENTR™ is ideal for both residential and office use. The ENTR™ Fingerprint Reader allows users to unlock their doors by simply inputting their personal authorization code or by sliding a finger.

Features
- Supports up to 20 users, with two that can be defined as administrators
- Easy to install – no drilling or wiring
- Battery operated – 2xAA
- Secure wireless communication between system elements via AES128 encryption standard
- Easy management using an OLED screen and navigation panel
- Indications: LED indications:
  - Lock / unlock successful,
  - Lock / unlock failed
  - Low battery
  - Door unit's hazard indication

Specifications

Battery Type	2X AA Alkaline
Communication Frequency (between the door unit and credentials)	2.4 GHz
Dimensions	140 mm x 50 mm x 40 mm
Weight	160g
Operating Temperature	-20°C ~ +60°C
Protection Rating	IP55

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ENTR™ Remote control

Function
Operates ENTR™ from a distance with a remote control. Up to 20 remote controls can be paired with each ENTR™ lock.

Application
ENTR™ is ideal for both residential and office use. The ENTR™ Remote Control allows users to unlock their door by simply pushing a button.

Features
• Easy to pair a new remote to ENTR™ door unit
• Up to 20 different remotes per door
• Battery can last up to 10,000 presses
• Secure wireless communication between system elements via AES128 encryption standard
• Indications:
  - Unpaired RC
  - Signal successfully transmitted and received

Specifications

Battery Type	CR2032 Lithium
Communication Frequency (between the door unit and credentials)	2.4 GHz
Dimensions	60 mm x 30 mm x 8 mm
Weight	30g
Operating Temperature	-20°C ~ +60°C
Protection Rating	IP55

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GotU™+ 5140

Function

The GotU™+ 5140 is an advanced digital door viewer that allows you to see who is approaching your front door and take both video and photos of all activity surrounding it or any other entrance. With a motion sensor, night vision and External SD card you'll know who came to your home or office, what they did and when.

Applications

Ideal for both residential and office use, the GotU™+ helps protect your property & the people inside by allowing them to see exactly who is approaching. Moreover, its motion sensor and night vision capabilities allow you to capture quality video of activity surrounding your property's access points 24/7.

Features

- Motion sensing triggers automatic video or image taking
- Auto-save images to external memory
- Time and date-stamped images or video
- Integrated, external door bell triggers GotU™+ into action
- High quality, onscreen images
- Easily replaces standard door viewer without additional work
- Aesthetic design with color options in black and white aluminum

Specifications

- Motion sensor for auto-capturing images or video
- Night vision capabilities
- 4.3" LCD screen
- Viewing angle 105 degree
- Fits standard 14 mm hole from mechanical door viewer
- Door thickness 38-110 mm
- 4 x AA batteries included
- Include micro-SD card up to 8GByte
- Image and video capturing

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GotU™+ 3130

Function

The GotU™+ 3130 is an advanced digital door viewer that allows you to see who is approaching your front door and take both video and photos of all activity surrounding it or any other entrance. The GotU™+ 3130 is field proven for its durability and reliability, with 100s of thousands of units in use worldwide. In addition, it is night vision-enabled and comes with an SD card, so you'll know who came to your home or office, what they did and whenno matter the time.

Applications

Ideal for both residential and office use, the GotU™+ helps protect your property & the people inside by allowing them to see exactly who is approaching. Moreover, its night vision capabilities allow you to capture quality video of activity surrounding your property's access points 24/7.

Features

• Auto-save images to internal memory
• Time and date-stamped images
• Integrated, external doorbell triggers GotU™+ into action
• High quality, onscreen images
• Simple-to-use - just press the button
• Easily replaces standard door viewer without additional work
• Aesthetic design with color options in aluminum, white, champagne, black & gold

Specifications

• Night vision capabilities
• 3.5" LCD screen
• Viewing angle 105 degree
• Fits standard 14 mm hole from mechanical door viewer
• Door thickness 38-110 mm
• 4 x AA batteries included
• Micro SD card
• Video capturing

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GotU™+ 3202

Function

The GotU™+ 3202 is an advanced digital door viewer that allows you to see who is approaching your front door and take both video and photos of all activity surrounding it or any other entrance. With night vision and internal memory, you'll know who came to your home or office, what they did and when.

Applications

Ideal for both residential and office use, the GotU™+ helps protect your property & the people inside by allowing them to see exactly who is approaching. Moreover, its night vision capabilities allow you to capture quality video of activity surrounding your property's access points 24/7.

Features

• Easily replaces standard door viewer without additional work
• High quality, onscreen images
• Auto-save images to internal memory
• Time and date-stamped images
• Integrated, external doorbell triggers GotU™+ into action
• Simple-to-use - just press the button
• Aesthetic design with color options in aluminum, white & black

Specifications

• Night vision capabilities
• 4.0" LCD screen
• Viewing angle 105 degree
• Fits standard 14 mm hole from mechanical door viewer
• Door thickness 38-110 mm
• 4 x AAA batteries included
• Allows for a micro SD card to be inserted to enhance memory
• Image and video capturing

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GotU 1201

Function

The GotU 1201 is a digital door viewer that allows you to see who is approaching your front door. With GotU you'll know exactly who came to your home or office.

Applications

Ideal for both residential and office use, the GotU helps protect your property & the people inside by allowing them to see exactly who is approaching.

Features

• High quality, onscreen images
• Simple-to-use - just press the button
• Easily replaces standard door viewer without additional work
• Aesthetic design with aluminium color

Specifications

• 4.0" LCD screen
• Viewing angle 105 degree
• Fits standard 14 mm hole from mechanical door viewer
• Door thickness 38-110 mm
• 4 x AAA batteries included

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COMMERCIAL
ACCESS CONTROL

SMARTair™

SMARTair™, Mul-T-Lock's friendly access control solution upgrades your security to new levels − with minimal effort on your part.

SMARTair™ is friendly from the start, offering extra-easy installation that does away with costly and complex procedures. All you need to do is mount SMARTair™ directly onto the existing mechanical lock – no wiring required! And don't worry; it fits almost any lock in just about any type of door including glass doors, interior doors, emergency exits with panic bars, lockers, cabinets and more.

Once installed, SMARTair™ protects you with state-of-the-art access control that is simple to program and easy to use. Its smart capabilities include authorizations, time schedules, event logs, instant cancellation of lost or stolen electronic cards and more.

SMARTair™ is an outstanding, modern High Security solution that combines exceptional quality with appealing convenience and stylish design. It is ideal for organizations and businesses in a wide range of sectors: retirement homes, campuses, healthcare facilities, office buildings, sports clubs, government and municipal agencies, airports and many others.

Versatile SMARTair™ is available in several different versions

SMARTair™ Offline – Independent of cumbersome computer connections, this effective system manages access to multiple doors with an easy-to-use portable programmer and encoded, contactless smart cards.

SMARTair™ Update-on-Card – SMARTair™ Offline can be upgraded with an innovative Update-on-Card feature. This smart add-on facilitates system management by employing the users' cards to pass information from the central station to doors throughout the premises.

SMARTair™ Genesis – SMARTair™ Genesis is ideal for small- to medium-sized organizations needing a simple, yet highly effective access control solution. Affordable and easy to install, it allows you to secure and manage up to 30 doors.

SMARTair™ Wireless – Controlled directly from the system manager's PC, this sophisticated version of SMARTair™ notifies managers immediately about events at every door, enabling them to change authorizations and schedules and even open distant doors – without leaving their desks.

SMARTair™ Web – Get complete access control from anywhere and all the time. With SMARTair™ Web you'll be able to manage access control from anywhere with a connected PC, tablet or smartphone. It allows you to open doors, manage authorizations, receive alerts, view audit trails and much more.

SMARTair™ Standalone – This basic version of SMARTair™ manages access to a single door. Requiring no software or programming device, it relies on a friendly programming card to authorize or cancel electronic access cards.

The complete SMARTair™ product line
SMARTair™ allows you address your entire environment with its wide range of available models including escutcheons, wall readers, knob cylinders and cabinet locks. The system's electronic functionality is managed by the SMARTair™ Management Kit, which includes the Portable Programmer, an encoder and SMARTair™ software.

You'll find more details on SMARTair™'s complete product line including options, features and specifications in the following SMARTair™ catalog pages.

MUL-T-LOCK®

www.mul-t-lock.com

SMARTair™ Escutcheon
(Standalone, Offline, Update-On-Card)

Function
Easy-to-install, battery-powered, wire-free escutcheon for installation on new or existing doors. All the control elements are positioned on the door's interior side to enhance security.

Applications
Access control for commercial and institutional facilities including offices, hospitals, factories, schools, sports clubs and more.

Features
- Wire-free installation
- Simple operation
- System management through easy-to-use software
  - Authorizations
  - Time schedules
  - Daylight savings time and holidays
  - Deletion and replacement of lost tags
  - Event log
  - Temporary blockage
  - 4-digit code
  - 4 operation modes: Standard; Open; First user; Dual user
- Up to 64,000 user cards and up to 64,000 doors per system

Specifications
- For installation on new or existing doors
- Contactless chip identification technologies 13.56 MHz ISO 14443A
- MIFARE® CLASSIC, 1K, 4K and ULTRALIGHT, DESFire or iClass
- 2 possible memory configurations:
  - 1,500 users and 600 events in the event log;
  - 1,000 users and 1,000 events in the event log
- Door thickness: 33-110 mm
- IP54 (external installation model)
- 2-4 cm read/write distance
- Visual indications of operational status − authorized, not authorized, out of schedule, low battery
- Humidity: Up to 85% without condensation
- Temperature range dependant on battery type: Alkaline batteries: 0ºC to +65ºC; Lithium batteries: -40ºC to +75ºC
- Powered by 3 x AAA batteries
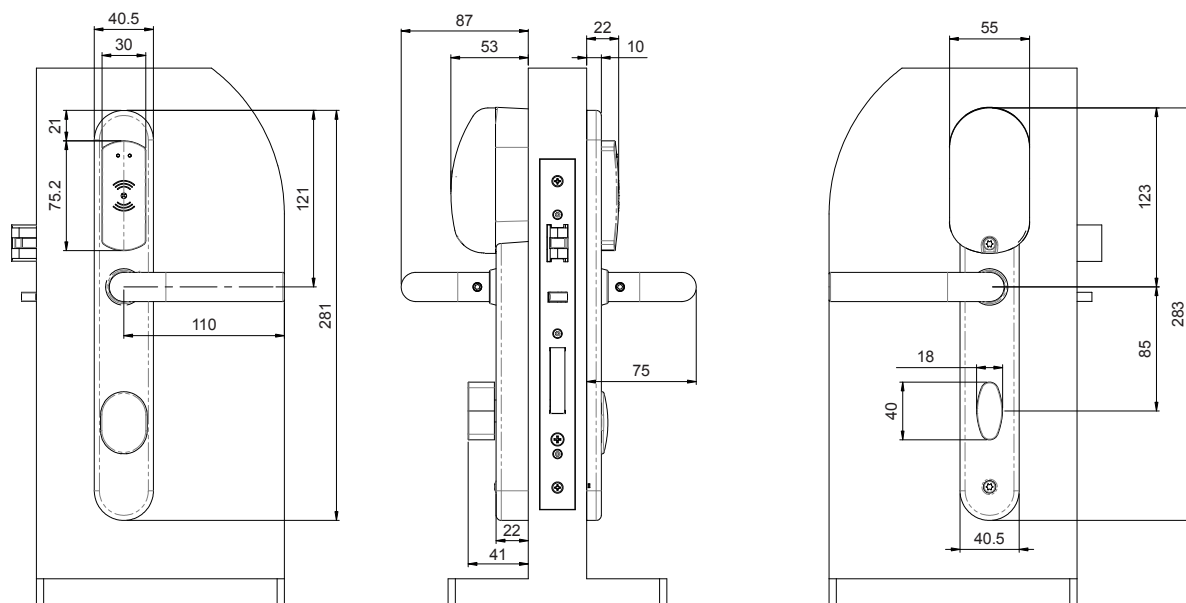- Fire resistance: Tested to EN1634:2000 for 30, 60, and 90 minutes

Options
- Standalone mode: no need for software. Programming is done with a Programming Card.
- Internal & external installation models
- Long plate or short plate
- Handles: SENA, DELTA, ARCO and more
- Finish: Stainless steel, satin chrome, PVD polish brass and more
- Various distances between axes (70 mm-105 mm)
- Spindle: 7 mm, 8 mm, 9 mm
- Various cylinder applications: Euro, Swiss, oval and more
- May be installed with or without cylinder; cylinder can be visible or hidden.
- Privacy feature
- Installation with a Panic Exit Device (PED)
- With or without keypad (with keypad is not available as Standalone)
  - RFID only
  - RFID and code
  - Code only

Long plate

Short plate

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MUL-T-LOCK®

SMARTair™ Wireless Escutcheon

Function
SMARTair™ provides access control to several access points or many, via a wireless network to self-contained locksets. Embedded with MIFARE® or HID iClass smart card technology, SMARTair™ provides High Security with convenient operation.

Applications
Access control for commercial and institutional facilities, including offices, hospitals, factories, schools, sports clubs and more. SMARTair™ is controlled directly from the system manager's PC, and immediately notifies managers about pre-defined events, enabling management to change authorizations and schedules and even open distant doors directly from their PC.

Features
• Wire-free installation
• Simple operation
• System management through easy-to-use software
  - Authorizations
  - Time schedules
  - Daylight savings time and holidays
  - Deletion and replacement of lost tags
  - Online event log
  - Remote opening of doors
  - Remote updating of authorizations and schedules via HUB
  - Instant cancellation of lost user cards
  - Temporary blockage
  - 4-digit code
  - 4 operation modes: Standard, Open, First user, Dual card
• Up to 64,000 user cards and up to 64,000 doors per system

Specifications
• For installation on new or existing doors
• Contactless chip identification technologies 13.56 MHz ISO 14443A
• MIFARE® CLASSIC, 1K, 4K and ULTRALIGHT or iClass.
• 2 possible memory configurations:
  - 1,500 users and 600 events in the event log
  - 1,000 users and 1,000 events in the event log
• Door thickness: 33-110 mm
• IP54 (external installation model)
• RF frequency: 868 MHz
• 2 to 4 cm read/write distance
• Visual indication of operational status (authorized, not authorized, out of schedule, low battery)
• Humidity: Up to 85% without condensation
• Temperature range dependant on battery type:
  - Alkaline batteries: 0ºC to +65ºC
  - Lithium batteries: -40ºC to +75ºC
• Powered by 3 x AA batteries
• Fire resistance: Tested to EN1634:2000 for 30, 60, 90 minutes

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Options
- Internal & external installation models
- Long plate or short plate
- Handles: SENA, DELTA, ARCO and more
- Finish: Stainless steel, satin chrome, PVD polish brass and more
- Various distances between axes (70 mm-105 mm)
- Spindle: 7 mm, 8 mm, 9 mm
- Various cylinder applications: Euro, Swiss, oval and more
- May be installed with or without cylinder; cylinder can be visible or hidden
- Privacy feature
- Installation with a Panic Exit Device (PED)
- With or without keypad (with keypad is not available as Standalone)
  - RFID only
  - RFID and code
  - Code only

SMARTair™ ANSI

Function
Manages access to multiple doors with easy-to-use portable programmer and encoded, contactless electronic cards.

Applications
Access control for commercial and institutional facilities, including offices, hospitals, factories, assisted living facilities, schools, sports clubs and more.

Management options*
- Standalone
- Offline
- Update-On-Card (UOC)
- Wireless

 *Products are upgradeable from Standalone to Wireless.

Features
- Easy installation − no wiring required
- Simple operation
- System management via easy-to-use software including:
  - Authorizations
  - Time schedules
  - Daylight savings time and holidays
  - Deletion and replacement of lost tags
  - Audit trail (including registration of the internal handle)
  - Escape – return feature
  - Door status indication: Door open; Door closed
  - 4 operating modes: Standard; Open; First person in; Dual user (available only in the wireless version)
  - Scales up to 64,000 user cards and up to 64,000 doors per system

SMARTair™ ANSI

Specifications

- 13.56 MHz, HID iClass® DESFire & MIFARE® RFID technology
- Contactless RFID cards / tags / fobs / silicon & disposable wristbands
- 2 possible memory configurations: 1,500 users and 600 events in the event log; 1,000 users and 1,000 events in the event log
- 2 to 4cm read/write distance
- Powered by standard batteries
- Conforms to ANSI grade 1
- ANSI A115 prep modified for through-bolts
- ADA-compliant levers
- RF module frequency: 915 MHz
- Shabbat compliant
- UL-3 hour fire rate latch bolt
- Door thickness: 1⅜"; 1¾"; 2¼"

Options

- Handles: SENA, TOLEDO
- Finish: Inox, satin chrome, PVD polished brass, PVD satin brass
- Privacy feature
- May be installed with or without cylinder
  - Cylinder options:
  - Classic, Interactive®, MT5®, 7x7, Integrator platforms;
  - Keyed different, keyed alike;
  - Master keying;
  - '3 in 1' (changeable combination);
  - TLO
- Internal / external models available
- Cylindrical version:
  - 2¾" (70 mm) backset – standard
  - 2⅜" (60 mm) backset – available
  - Mortise version:
  - Automatic deadbolt – standard
  - Latch only version – available
  - Installation with a Panic Exit Device (PED)

SMARTair™ Knob Cylinder
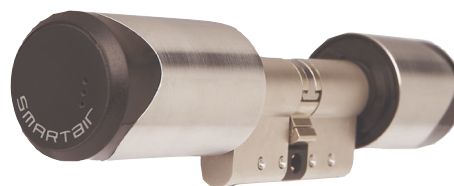
Function

The SMARTair™ Knob Cylinder is an easy-to-use, simple-to-install and highly effective electronic cylinder that can be integrated with other SMARTair™ locking elements − escutcheons, wall readers, e-motion − in one Access Control system managed by SMARTair™ Software.
The Knob Cylinder is upgradable from Standalone to Offline/Update-On-Card and/or Wireless, making it the perfect solution for both new and retrofit installations.

Mechanical features

- Freewheeling knob until an authorized credential is presented
- Motorized clutch activates cylinder cam
- Compatible with a mass variety of standard mortise locks (Euro, Scandinavian, Finnish and ANSI models are available)
- Panic function: Internal knob turning always opens door (only Euro model)
- Available Knob Cylinder models:
  - Euro: Double cylinder (electronic on one side or two sides); Half cylinder
  - Scandinavian: Double cylinder (electronic on one side or two sides); Half cylinder

Electronic features

- Reader module:
  - 13.56 MHz, MIFARE® DESFire or iClass technology
  - Contact-less cards/tags
  - Opening distance: 10 mm with standard cards
  - Programming device connection located on the front section of the electronic knob
  - Indication light: Red & green LED
- Control Unit:
  - Non-volatile memory
  - Programmable in 3 modes:
    - Normal mode: 1,500 users and 600 audit trail entries
    - Extended mode: 1,000 users and 1,000 audit trail entries
    - High traffic: All users of the installation have access and 1,000 audit trail entries
    - Real-time clock and calendar: 14 time profiles
- RF module (Wireless):
  - 868 MHz bi-directional radiofrequency technology
  - Serves to send updates from the hub to the control unit, and to send audit trail from the control unit to the hub
  - Encrypted communication
  - Distance between the RF module and the hub: 25m
- Battery module:
  - 1 x CR123A Lithium battery
  - Estimated battery life: 40,000 cycles; 2 years in standby (for the wireless model: 1-2 years in standby)
  - Simple battery change; no dismounting required

Specifications

- 85% humidity without condensation
- Temperature range: from 0°C to 70°C
- IP55 (extreme model)

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SMARTair™ Wall Reader - Universal Design
(Standalone, Offline,Update-On-Card, Wireless)

Function
The SMARTair™ Wall Reader is a unique and elegant access control solution designed for simple installation and operation. The Wall Reader operates magnet locks, electric strike or electronic locks. All the control elements are on the inside of the door to enhance security.

Applications
Access control for commercial and institutional facilities including offices, hospitals, factories, schools, sports clubs and more.

Features
• Simple installation
• Simple operation
• System management through easy-to-use software
  - Authorizations
  - Time schedules
  - Daylight savings time and holidays
  - Deletion and replacement of lost tags
  - Audit trails
  - Temporary blockage
  - 4-digit code
  - 4 operation modes: Standard; Open; First user; Double user
• Up to 64,000 user cards and up to 64,000 doors per system

Specifications
• 13.56 MHz, MIFARE® DESFire or iClass technology
• Contactless cards/tags
• 2-4 cm read/write distance
• Temperature range: -10ºC to +80ºC
• 12V AC/DC power
• Consumption:
  - Relay not active: 20µA
  - Relay active: 150mA
  - Relay: NO, NC, C
  - Wireless frequency: 868MHz or 915 MHz

Options
• With or without keypad (with keypad is not available as Standalone)
  - RFID only
  - RFID and code
  - Code only

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SMARTair™ Narrow Wall Reader
(Standalone, Offline, Update-On-Card)

Function

The SMARTair™ Wall Reader is a unique and elegant access control solution designed for simple installation and operation. The Wall Reader operates magnet locks, electric strike or electronic locks. All the control elements are on the inside of the door to enhance security.

Applications

Access control for commercial and institutional facilities including offices, hospitals, factories, schools, sports clubs and more.

Features

• Simple installation
• Simple operation
• System management through easy-to-use software
  - Authorizations
  - Time schedules
  - Daylight savings time and holidays
  - Deletion and replacement of lost tags
  - Audit trails
  - Temporary blockage
  - 3 operation modes: Standard; Open; First user
• Up to 64,000 user cards and up to 64,000 doors per system

Specifications

• 13.56 MHz, MIFARE® DESFire technology
• Contactless cards/tags
• 2-4 cm read/write distance
• Temperature range: -10ºC to +80ºC
• 12V AC/DC power
• Consumption:
  - Relay not active: 20µA
  - Relay active: 150mA
  - Relay: NO, NC, C

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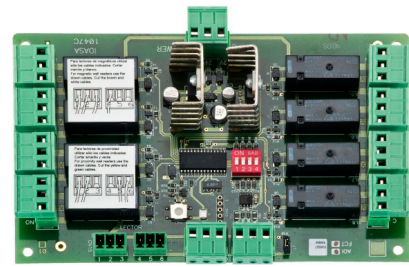
SMARTair™ Relay Card

Function

The SMARTair™ Relay Card is a wall reader with an electronic card that includes 8 relays.

The Relay Card can be a part of an Offline or Update-On-Card (UOC) system.

Applications

This device allows users to manage multiple relays to control systems like elevator floor access, gates and others.

Features

• Simple operation
• System management through easy-to-use software
  - Authorizations
  - Time schedules
  - Daylight savings time and holidays
  - Deletion and replacement of lost tags
  - Audit trails
  - Temporary blockage
  - 8 relays per controller
  - Possible to connect 5 controllers (up to 40 relays)

Specifications

• 13.56 MHz, MIFARE® DESFire or iClass technology
• Contactless cards
• 2-4 cm read/write distance
• Temperature range: -10ºC to +80ºC
• 12/24V AC/DC power
• 8 Relays per card: NO, NC, C

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SMARTair™ Software & License

Function

SMARTair™ Software (also called TS1000) enables users to manage the SMARTair™ system according to the license issued and the associated Authorization Key.

The SMARTair™ Software license includes:

• A USB memory device that contains:
• SMARTair™ Software installation file
• Site data (the license)
• echnical manuals
• Authorization key programmed with the system's code

The easy-to-use SMARTair™ Software manages all types of SMARTair™ products − escutcheons, wall readers, cabinet lock, knob cylinders and others − simultaneously.

Software requirements

• PC with Pentium 4 processor or higher
• 1 GB of free RAM
• 1 GB or free disk space
• 32-bit or 64-bit Microsoft Windows Operating System supporting services (Windows 95, Windows 98 and Windows ME are not supported)

Site data

• The 'site data' is supplied with the software and includes the license for the system and a unique 8-figure alphanumeric system code
• All information regarding the system (user list, door list, authorization matrix, time profiles, etc) is kept in the site data file

Authorization Key

• The Authorization Key enhances security for the SMARTair™ system
• Each Authorization Key contains the system's unique corresponding system code
• In order for the Portable Programmer to function, the Authorization Key must be inserted. Without it, the Portable Programmer will not update the door or retrieve audit trails. It is possible to override the Portable Programmer by logging into the system's software.

Types of licenses

• For the different products (upgrades available):
• Offline
• Update-On-Card
• Genesis
• Wireless
• According to the number of doors in the system (upgrade available):
  - Up to 10 doors
  - Up to 30 doors
  - Up to 75 doors
  - More then 75 doors
  - With Anti-Pass Back functionality (this feature is available with any license)

SMARTair™ Encoder

Function
The SMARTair™ Encoder is a device that encodes and reads user credentials using the SMARTair™ software.

Credentials
- Read/write contactless chip identification technology RFID 13.56 MHz
  - MIFARE® Classic 1K, 4K, and ULTRALIGHT, DESFire
  - iClass 2k/2, 16k/2, 16k/16, 32k
- Credential type:
  - Card
  - Tag
  - Silicon bracelet
  - Transponder sticker
  - SynerKey

Specifications
- Power cable − supplied with the encoder:
  - Input: 100-240V 50/60 Hz 1.0A
  - Output: 7.5V 1.2A
- USB connection to the PC − supplied with the encoder
- Red & green indications

www.mul-t-lock.com

SMARTair™ Portable Programmer

Function

The SMARTair™ Portable Programmer serves as an interface between the SMARTair™ software and the SMARTair™ escutcheons, wall readers, cabinet locks (e-motion) and knob cylinders.

The Portable Programmer enables the following:

• Initiate/update SMARTair™ escutcheons, wall readers, cabinet locks and knob cylinders
• Emergency opening of a door
• Testing of SMARTair™ escutcheons, wall readers and knob cylinders
• Retrieval of event logs from SMARTair™ escutcheons, wall readers and knob cylinders

Specifications

• Membrane keyboard
• Power supply:
  - 9V 6LR61 alkaline battery or 9V power supply adaptor
  - Auto switch-off after 30 seconds
  - Low-battery indication
• Connection to the PC − supplied with the portable programmer: Female RS-232 connector (serial port)
• Includes a dedicated cable to connect with the escutcheons and wall readers
• 0.5 MB memory

MUL-T-LOCK®

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SMARTair™ Updater

Function

The SMARTair™ Updater creates a virtual online network system without the drawbacks of a cable network but including all of its benefits. Updates are sent from the SMARTair™ software to the Updater (online) and are downloaded to the credential when it's presented to the Updater's wall reader. In turn, the credential then updates the escutcheons, wall readers, e-motion and knob cylinders of the system when presented.

The SMARTair™ Updater allows users to:

• Update credential authorizations without the need to go to the door with the portable programmer
• Register new credentials (users) without the need to go to the door with the portable programmer
• Collect audit trail from credentials
• Manage battery status via the audit trail collected from credentials
• Control doors – the Updater's wall readers can open doors and activate in/out locking

Features of the Updater

• No limitation on the number of users per door
• Registers and deletes users in real time
• Enables recording and viewing of audit trails in the centralized database
• Provides Offline operation in the event of a communication failure (with no user quantity limit)
  - The updater returns to online mode as it detects that communication has been re-established.
• Possibility of connecting a second wall reader to control not only the entrance, but also the exit
• Door indications

Reader module

• With or without keypad
  - RFID only
  - RFID and code
  - Code only
• Read/write contactless chip identification technology RFID 13.56 MHz ISO1443A MIFARE® classic 1K and 4K and Ultralight or iClass
• Reading distance:10 mm with standard credentials
• Red and green indication light

Control unit

• Non-volatile memory
• Operating mode:
  - Standard: Default operating mode; authorized credential is required to open
  - First user: The lock goes into passage mode after first access of an authorized credential

Connections

• Power cable
• Ethernet TCP/IP
• PS/2 connector
• VGA connector for a screen (optional)
• Relay (for the wall readers)

Specifications

• Power:
  - Input:100-240VAC, 50/60Hz, 1A
  - Output:7.5V, 1.2A
• Humidity: up to 85% without condensation
• Temperature range: from -10°C to 80°C
• IP54

Dimensions

• 300 mm x 300 mm x 85 mm

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MUL-T-LOCK®

SMARTair™ Standalone Management Tools

Function

SMARTair™ Standalone is the basic version of SMARTair™ and manages access to a single door. Requiring no software or programming device, it relies on a friendly programming card to authorize or cancel electronic access cards.

The Standalone Management Tools include:

- Programming Card – used to program the SMARTair™ escutcheon, wall reader or knob cylinder
- Emergency cable – used to allow the opening of a door when the batteries are empty

Programming Card features:

- Add credential
- Cancel credential
- Cancel all credentials
- Passage mode control
- Shadow Card (to delete a lost credential)

Programming Card options:

- With Shadow Card feature
- Without Shadow Card features

Emergency Cable features:

- Used to energize the lock in order to open the door when the escutcheon's batteries are empty
- Requires 3 x AAA batteries

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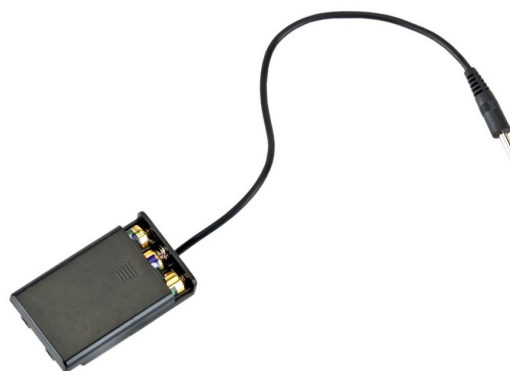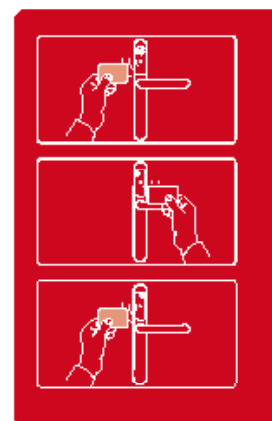
SMARTair™ Cabinet Lock (E-Motion)

Function

E-Motion is an electronic lock for lockers which may be integrated into the SMARTair™ system.

Features

• Simple operation
• System management through easy-to-use software
• 2 Operation modes:
  - High traffic:
    All lockers are available to all users. Any user can select a free locker and lock it by presenting his/her card.
  - User assigned:
    Through the E-Motion or SMARTair™ software, a specific locker can be assigned to one or more users. This mode of operation supports various access control features: authorizations, time schedules, daylight savings time and holidays, cancellation and replacement of lost tags, audit trail, temporary blockage, etc.

Specifications

• Reader module:
  - 13.56 MHz, MIFARE® RFID technology
  - ISO 14443A
  - Contact-less cards (MIFARE® Classic 1K, 4K and ULTRALIGHT)
  - Reading range: 10 mm with standard credentials
  - LED indications (access authorized, access denied, low battery, etc).
• Control unit:
  - Non-volatile memory
  - Up to 1500 users
  - Up to 1000 events recorded in audit trail
  - Real-time clock and calendar
• Operating conditions:
  - Temperature range (external side): -20ºC to +70ºC
  - Humidity: up to 85% without condensation
  - Fire certificate: 30', 60' and 90' UNFEN 1634:2000
  - IP55
• Battery module:
  - Type: 3 x LR03 AAA 1.5V alkaline batteries
  - Estimated duration: 20,000 operations or 3 years
  - Changing the batteries is easy and simple; no need to disassemble the lock.

Dimensions

• Door thickness (3 models):
  - 2-12 mm
  - 12-15 mm
  - 15-25 mm
• "Long" or "Short" footprint
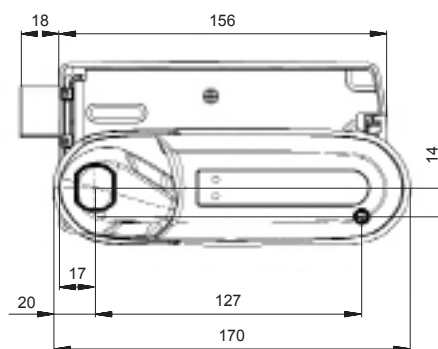
Right handed door - short
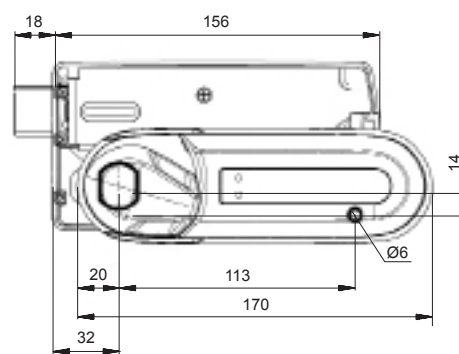
Right handed door - long

Dimensions

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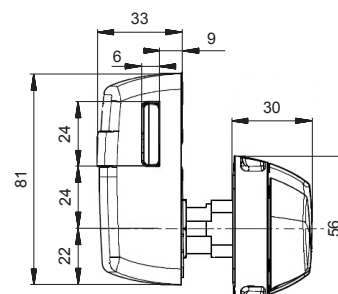
SMARTair™ Genesis Master Controller

Function

The Master Controller is the core of the SMARTair™ Genesis system. Updates are downloaded to the credential when it's presented to the device's wall reader. In turn, the credential will update the escutcheons, wall readers and knob cylinders of the system when presented to them

Master Controller Features

• Pre-loaded with the system database and user software, eliminating the need to install software locally
• Enables recording and viewing of audit trails
• Supports the connection of a second wall reader to control both the entrance and exit

Reader Module Features

• Read/write contactless chip identification technology RFID 13.56 MHz ISO1443A MIFARE® classic 1K
• Reading distance: 10 mm with standard credentials
• Red and green indication lights
• Dimensions: 112 x 90 x 33,3 mm (HxWxD)
• IP55

Options

• 10 door / 100 users or 30 door / 300 users license
• Available with or without keypad (4-digit code)
  - RFID only
  - RFID and code
  - Code only
• SMARTair™ Genesis credentials or any MIFARE® credential license

Specifications

• Power:
  - Input:100-240VAC, 50/60Hz, 1A
  - Output:7.5V, 1.2A
  - Humidity: up to 85% without condensation
  - Temperature range: from -10°C to +80°C
  - IP54

Updater dimensions

• 305 x 305 x 76 mm (HxWxD)

MUL-T-LOCK®

www.mul-t-lock.com

SMARTair™ Credentials

Function

SMARTair™ can be supplied with different option of credential technologies and credential types.

- Available as cards, tags, stickers or silicon bracelets for contactless identification
- Encrypted credentials are available in various secure RFID technologies – HID iCLASS®, MIFARE® Classic or DESFire and SkiData
- SMARTair™ Genesis credential (card or tags only) are MIFARE® Classic with a specific A/B code
- Cards can be customized with card printers

Options

	Card	Tag	Sticker	Silicon bracelets
MIFARE® Classic	1K 4K Genesis	1K Genesis	1K	1K
DESFire	4K	NA	4K	NA
HID iCLASS®	2k/2 16k/2	2k/2 16k/2	2k/2 16k/2	NA
SkiData	256 bytes	NA	NA	NA

www.mul-t-lock.com

CLIQ® Cylinder

Function

The electromechanical CLIQ® cylinder is used in combination with the CLIQ® key giving it the ability to collect and store information about when it is accessed and with which key. In addition, the cylinder stores a list of authorized and unauthorized CLIQ® keys to ensure only enabled keys have access.

Applications

The CLIQ® cylinder is based on Mul-T-Lock's High Security mechanical platforms Interactive®+ and MT5®. It is available in a wide range of cylinder applications including, Euro (double or single), rim, mortise, kik, padlocks, switch cylinder and more.

Features

• Audit trail
  - Standard memory: 100 events
  - Extended memory: 1000 events

Specifications

• IP54
• Temperature range: -25ºC to +85ºC
• Encrypted (3DES) communication between cylinder and key/c-key
• Available in a variety of finishes
• Minimum length: 33mm (Euro model)
• Power supplied via the CLIQ® key's embedded battery

MUL-T-LOCK®

www.mul-t-lock.com

CLIQ® - Quartz+ Key

Function
Used in combination with the CLIQ® cylinder, the electromechanical CLIQ® Quartz+ Key can be programmed directly with authorizations and time profiles. The key also collects usage information to create complete access audit trails.

Application
The CLIQ® Quartz+ Key is based on Mul-T-Lock's High Security mechanical platforms Interactive®+ and MT5®.
This key is recommended for use with CLIQ® Remote Programming Devices.

Features
- Schedule: 32 week-based time intervals
- Audit trail: 1000 events
- Color-coded LED indicators:
  - Green: authorized
  - Red: unauthorized
  - Red-green-red: out of schedule
  - Blinking red: low battery
- Supports remote programming of authorizations and scheduling

Specifications
- IP67
- Temperature range: -10ºC to +80ºC
- Encrypted (3DES) communication between C-key and software
- Encrypted (3DES) communication between C-key and cylinder
- Powered by a CR2032 3V lithium battery, which is easily replaced
- Battery lifetime: 5 years or 20,000 operations
- Design: Black with pink inserts

www.mul-t-lock.com

CLIQ® - Quartz and QuartzXT Key

Function
Used with the CLIQ® cylinder, the electromechanical CLIQ® Quartz Key collects access information for complete audit trails. It can also be programmed to follow specific time schedules.

Application
The CLIQ® Quartz Key is based on Mul-T-Lock's High Security mechanical platforms Interactive®+ and MT5®

The key comes in two options depending on your selected system:
• Quartz Key – used with the CLIQ® system
• QuartzXT Key – used with the CLIQ® Remote system

Features
• Schedule: 32 week-based time intervals
• Audit trail:
  - Quartz Key: 130 events
  - QuartzXT Key: 1000 events
• Color-coded LED indicators:
  - Green: authorized
  - Red: unauthorized
  - Red-green-red: out of schedule
  - Blinking red: low battery

Specifications
• IP67
• Temperature range: -10ºC to +80ºC
• Encrypted (3DES) communication between C-key and software
• Encrypted (3DES) communication between C-key and cylinder
• Powered by a CR2032 3V lithium battery, which is easily replaced
• Battery lifetime: 5 years or 20,000 operations
• Design:
  - Quartz: Blue with yellow inserts
  - QuartzXT: Black with purple inserts

CLIQ® - Control Key (C-Key)

Function

The CLIQ® Control Key (C-Key) manages the electronic communication provided by the CLIQ® system. It provides users secure access to the system software and the ability to transfer information between the software and the cylinders.

Applications

Each CLIQ® system must have at least one C-Key, referred to as the Master C-Key (MCK). The MCK is used to transfer information from CLIQ® cylinders to the software and not to open them. For systems with more than one administrator, it is possible to utilize additional C-Keys, also referred to as a Normal C-Key (NCK).

Features
• Update key authorization lists within cylinders
• Transfers audit trail information from cylinder to software
• Facilitates secured access to the software

Specifications
• IP67
• Temperature range: -10ºC to +80ºC
• Encrypted (3DES) communication between C-key and software
• Encrypted (3DES) communication between C-key and cylinder
• Powered by a CR2032 lithium battery; the battery is easily replaced
• Battery lifetime: 2 years
• Design:
   - MCK: Black with red inserts
   - NCK: Black with red and yellow insert

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MUL-T-LOCK®

SynerCLIQ®
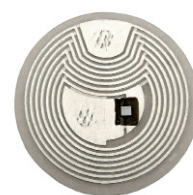
Function

A CLIQ® key with a transponder for electronic access control systems;
Allows users to conveniently use a single all-in-one key for opening both electromechanical cylinders and doors secured by RFID access control systems.

Applications

Facilitates installation and use of electromechanical platforms in apartment and office buildings, seniors' homes and other premises secured with RFID access control systems.

Recommended for new applications that combine a mechanical Mul-T-Lock® platform, and an Interactive®+ CLIQ®/MT5® CLIQ® system, with access control solutions, such as Mul-T-Lock's SMARTair™.

Features

- Key head may incorporate round sticker transponders.
- Compatible with mechanical Mul-T-Lock® platform Interactive®+, as well as the electromechanical Interactive®+ CLIQ®/MT5® CLIQ®.
- Compatible with electronic RFID access control systems, such as Mul-T-Lock's SMARTair™.

Specifications

- Users can design their own SynerCLIQ cover sticker.
- Transponder dimensions: 22 mm diameter

Transponder

www.mul-t-lock.com

CLIQ® - Local Programming Device

Function

The CLIQ® Local Programming Device (PD) is used to connect CLIQ® keys and cylinders to the software (CLIQ® Manager and/or CLIQ® Web Manager),
via secure communication.

Features

• Provides secure access to the CLIQ® system software
• Reads and uploads audit trails from CLIQ® keys
• Updates CLIQ® Keys with the latest authorizations and time schedules
• Uploads tasks from CLIQ® software to the C-Key(s)

Specifications

• Computer connectivity via USB or serial connection
• Power supply:
  - Powered through the USB cable
  - 9V battery when using serial connection
• Compatible with MT5® CLIQ® / Interactive®+ CLIQ® keys

www.mul-t-lock.com

CLIQ® Remote - Mobile Programming Device

Function

Using a cellular phone or computer as a modem, the CLIQ® Remote Mobile Programming Device (MPD) allows you to program Interactive®+ CLIQ® and MT5® CLIQ® keys on-the-go.

Features

• Makes authorization changes in Quartz+ keys
• Actions time-profile changes in Quartz+ and QuartzXT keys
• Retrieves audit trails from Quartz+ and QuartzXT keys
• Revalidates keys
• Automatically syncs keys' time settings
• Provides visual and audio indicators of operational status and activity progress

Specifications

• Powered by 4 x AAA batteries
• IP42
• Connection via cellular telephone:
  - Communication to cellular telephone via Bluetooth or USB cable
  - Connects to conventional cellular telephone models without the need for software installation
• Connection via computer:
  - USB connection between Mobile PD and computer
  - Uses a simple application as a bridge for network connections
  - Can be powered through the USB cable

MUL-T-LOCK®

www.mul-t-lock.com

CLIQ® Remote - Wall Programming Device

Function

Embedded with its own IP address, the online CLIQ® Remote Wall Programming Device allows users to remotely program Interactive®+ and MT5® keys.

Features

- Makes authorization changes in Quartz+ keys
- Actions time-profile changes in Quartz+ and QuartzXT keys
- Retrieves audit trails from Quartz+ and QuartzXT keys
- Revalidates keys
- Automatically syncs keys' time setting
- Provides visual and audio indicators of operational status and activity progress
- Updates CLIQ® key's firmware

Specifications

- IP42
- Power supply:
  - 7-24 V AC/DC
    or
  - Power over Ethernet (PoE) – class 1 IEEE 802.3 af. (Supply must be LPS approved)

www.mul-t-lock.com

CLIQ® - Web Manager Software

Function

A web-based software program, CLIQ® Web Manager is used to manage the CLIQ® Remote system.
User-friendly and intuitive, system administrators use it to remotely manage the day-to-day functionality of the CLIQ® Remote system.

Applications

As a web-based solution, the CLIQ® Web Manager provides access to the system's database from any computer with an Internet connection and has been specifically designed to handle large, decentralized systems.

Features

• Secure login via a control key and a PIN code
• Advanced search options
• Manages and creates:
  - Access permissions
  - Audit trails — including activities from remote devices
  - Time-based authorization
  - Recurring validation
  - Reports
• Supports remote programming device management
• Enables system grouping into manageable domains
• Allows remote key programming
• Key and personnel management

Specifications

• Web browser: Internet Explorer 7 and up
• Highly secured connection (SSL)
• Available in multi-language versions
• License options are per system size

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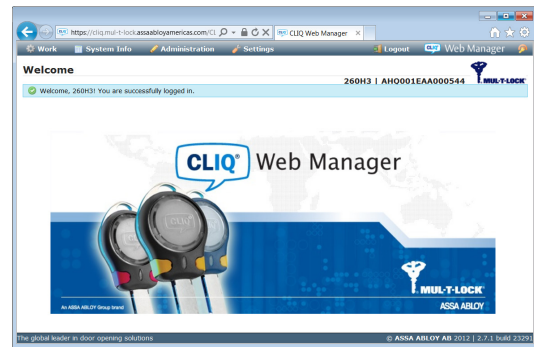
CLIQ® - Manager Software

Function

Locally installed CLIQ® Manager software is used for the day-to-day management of the CLIQ® system.

With it, system administers can perform a variety of tasks based on the specific needs of their environment.

Features

- Secure login via a control key and PIN code
- Manages and creates:
  - Access permissions
  - Audit trails
  - Time-based authorizations
  - Reports
- Key and personnel management

Specifications

- Installation options:
  - Local installation
  - Centralized database
- OS: MS Windows 2000/XP/ VISTA/Windows 7
- Hardware requirements: MS Windows compatible PC, Pentium IV-1,5 GHz, 50MB free hard disk memory, 512 MB RAM
- Licensing options:
  - CLIQ® Manager 50: One CLIQ® system with up to 50 CLIQ® elements in the system
  - CLIQ® Manager 200: One CLIQ® system with up to 200 CLIQ® elements in the system
  - CLIQ® Single Manager: One CLIQ® system with unlimited quantity of CLIQ® elements
  - CLIQ® Multi System Manager: Multiple CLIQ® systems with an unlimited quantity of CLIQ® elements

www.mul-t-lock.com

CLIQ® - Waterproof Padlock
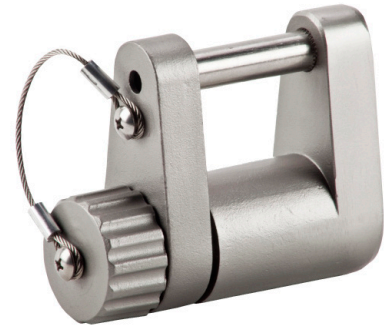
Function

Designed for extreme environmental conditions, the CLIQ® Waterproof Padlock, is ideal for applications that require durability and protection against the elements.

It is also embedded with micro-technology that collects information about who, when and where the padlock has been accessed to provide you with complete Audit Trails of activity.

- Available in two shackle versions:
  - Stainless steal for maximum corrosion resistance
  - Hardened steel for protection against severe physical attacks
- Features key retaining design
- Attached weather-seal cap protects against water

Applications

CLIQ® Waterproof Padlock cylinder is based on Interactive®+, Mul-T-Lock's High Security mechanical platform.

Features

- Audit trail:
  - Standard memory: 100 events
  - Extended memory: 1000 events

Specifications

- IP67, IPx9K
- Temperature range: -25ºC to +85ºC
- Encrypted (3DES) communication between cylinder and key/c-key
- Available with Inte=ractive®+ CLIQ® only
- Mechanical combination limitation: Impossible to use D5
- Available with 8 mm (5/16") or 11 mm (7/16") shackle
- Industrial design: casting processes for stainless steel can cause variations to finish
- Power supplied via the CLIQ® key's embedded battery
- Optional: can be supplied with a mechanical cylinder
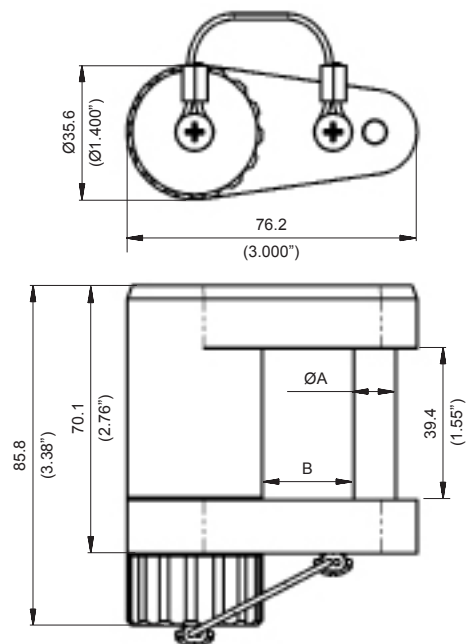
	ØA	B
mm	8	24.5
Inch	5/16	0.965
mm	11	23
Inch	7/16	0.902

www.mul-t-lock.com

WatchLock®
Smart Padlock with Integrated GPS

Function
An intelligent alarm locking solution combining High Security mechanical padlock with advanced GPS-location system and GSM communication; WatchLock® automatically notifies when the assets are accessed, as well as the assets' location.

Application
WatchLock® can be used for a wide range of applications, to provide protection of places and property like remote locations, cargo, security companies, commercial & retails, security for customs operation and for personal use.

Features
- Embedded with Mul-T-Lock's patented High Security mechanical platforms, Interactive®+ and MT5®/MT5®+
- Can be combined with Mul-T-Lock's CLIQ® technology for enhanced access control with features such as:
  - Remote key authorization and updates
  - Time-based authorizations
  - Revalidation
- GPS and GSM capabilities
- Battery operated (fully autonomous)
- Wire-free installation
- Simple operation
- System management through WatchLock® web based online application
- Real time alerts
- Varity of reports
- Full audit trail

www.mul-t-lock.com
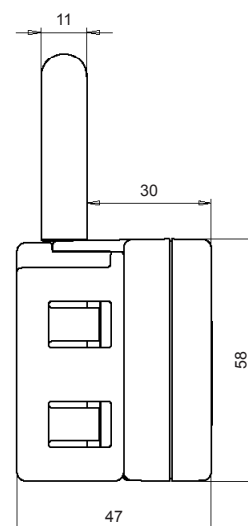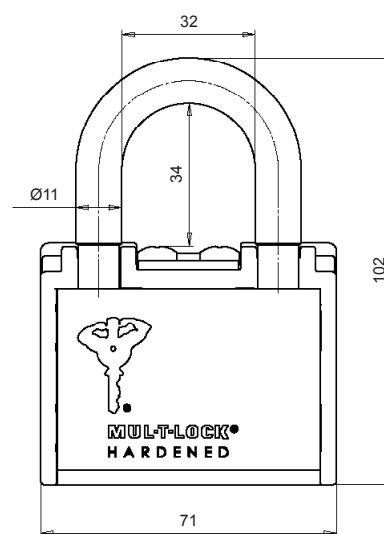
WatchLock® (continue)

Smart Padlock with Integrated GPS

Specifications

- GPS
  - Protocol type - NMEA (Binary)
  - Time to First Fix (TIFF) - 12 sec. (hot start)
  - Antenna Type - Built in (concealed)
- GSM Communication
  - Band - Quad (800/1900, 850/1800)
  - Channels - SMS, GPRS
  - Emission power (TX) - 850/900 Class 4 (2 Watt) \ 1800/1900 Class 1 (1 Watt)
- CPU
  - Static RAM - 128Kb
  - Nonvolatile memory - 34Kb
  - Flash memory - 2,048Kb
- Battery
  - Type - Lithium-ion Polymer
  - Power - 3.7V 700mAh
- Power consumption
  - Sleep/ Idle - 0.1 mA
  - GPRS Only - 75mA
  - GPS Only - 75mA
  - GPS and GPRS - 135mA
- Data Package Size / Transmission - 140 bytes*
- Environmental Specifications - Operating temperature : -20°C - +60°C
- Physical Specifications
  - Dimensions: 71 mm x 86 mm x 47 mm
  - Weight: 625g

Materials

- Shell - Hardened steel, black plated
- Shackle - Hardened boron alloy steel
- Electronic case - Composite material

Standards

EN 12320-2001 Grade 3, CE, FCC, RoHS, IP65

*Some cellular operators will charge a minimum unit of 1k byte or more.

MUL-T-LOCK®

www.mul-t-lock.com

Code-It® Long Plate (DIN standard)
Electronic Security Handle

Function
Access control via an automatic locking mechanism built within the handle that helps prevent unauthorized access and is operated with personal code.

Applications
For interior use.
Compatible with most types of locking/latching products.

Features
- Keyless locking
- 2 operating modes:
  - Automatic locking
  - Manual locking
- 4-to 6-digit personal code for opening
- Locks only from the door's exterior side
- Simple operation
- Easy installation (including retrofit)
- Wire-free installation
- Low cost maintenance

Specifications
- Door thickness: 35-80 mm
- 8 or 7 mm spindle
- Indication light
- Indication sound
- Battery: 2 x CR2 3V lithium
- Material: Brushed stainless steel and satin chrome zinc
- Tested at least 100,000 operations, according to EN 1906
- Fire tested according to EN 1363
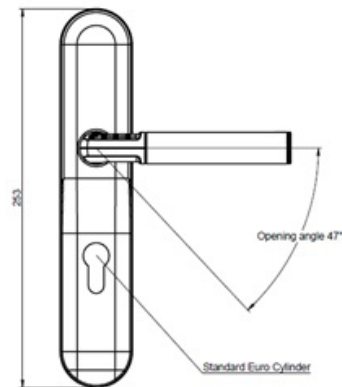
Options
- Distance between handle and cylinder (CC):
  - 55 mm
  - 70 mm
  - 72 mm
  - 85 mm
  - No cylinder hole
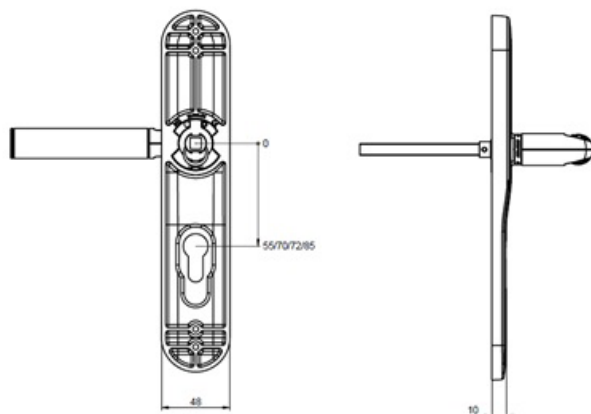
Code-It® 8816
Electronic Security Handle
(ANSI style)

Function
Access control via an automatic locking mechanism built within the handle that helps prevent unauthorized access and is operated with personal code.

Applications
For interior use.

Features
- Keyless locking
- 2 operating modes:
  - Automatic locking
  - Manual locking
- 4- to 6-digit personal code for opening
- Locks only from the door's exterior side
- Simple operation
- Easy installation (including retrofit)
- Wire-free installation
- Low-cost maintenance

Specifications
- Max. door thickness 2¼" (57 mm)
- 8 mm spindle
- Tubular latch adjustable backset 2⅜" (60 mm) to 2¾" (70 mm)
- Up to 9 distinct codes
- Indication light
- Indication sound
- Battery: 2 x CR2 3V lithium

(Min. door thickness with adapter plate) 28

164,5

72,5

145 + Door thickness

Ø70

42

2x M5 (Adjustable screw)

Handle plate thickness 15,6

Length of screw towers 7,6

Min. distance to lock case 6,95

8 mm Spindle

Ø21
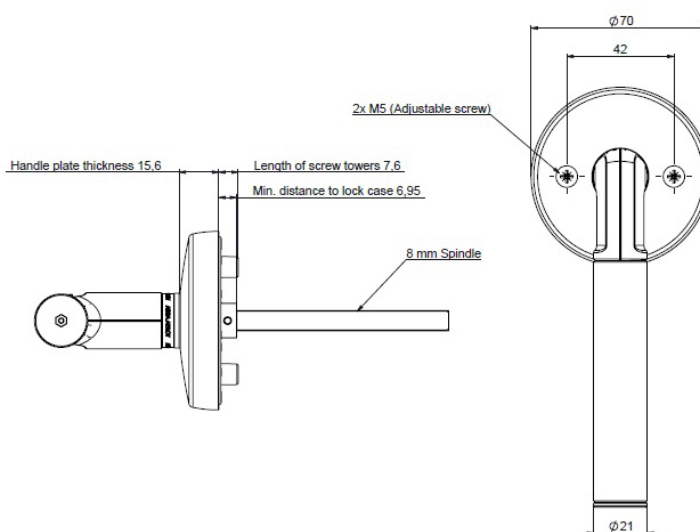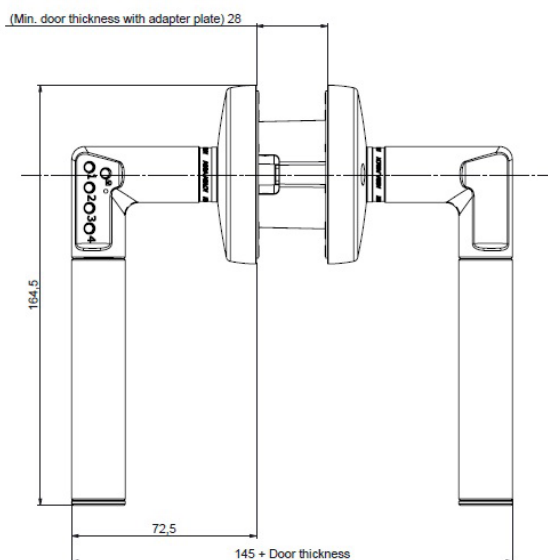
MUL-T-LOCK®

www.mul-t-lock.com

Code-It® 8818
Electronic Security Handle

Function
Access control via an automatic locking mechanism built within the handle that helps prevent unauthorized access and is operated with personal code.

Applications
For interior use.
Compatible with most types of locking/latching products.

Features
- Keyless locking
- 2 operating modes:
  - Automatic locking
  - Manual locking
- 4-to 6-digit personal code for opening
- Locks only from the door's exterior side
- Simple operation
- Easy installation (including retrofit)
- Wire-free installation
- Low cost maintenance

Specifications
- Door thickness: 35-80 mm
- 8 mm spindle
- Indication light
- Indication sound
- Battery: 2 x CR2 3V lithium
- Material: Brushed stainless steel and satin chrome zinc
- Tested with a minimum of 100,000 operations, according to EN 1906
- Fire tested according to EN 1363

8 mm square rod
156
141
13
49
35-80
70
Door thickness

38
45°
Opening angle 47°
Ø54

MUL-T-LOCK®
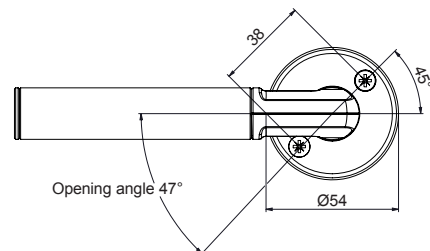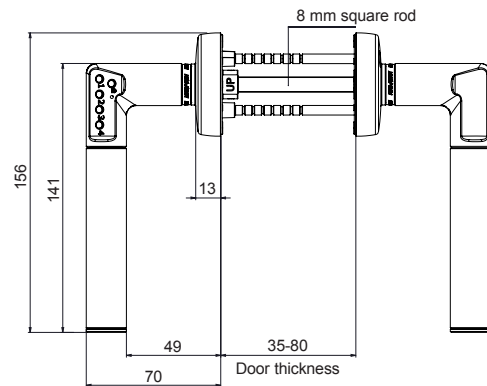
Code-It® (DIN standard)
Electronic Security Handle

Function
Access control via an automatic locking mechanism built within the handle that helps prevent unauthorized access and is operated with personal code.

Application
For interior use.
Compatible with most types of locking/latching products.

Features
- Keyless locking
- 2 operating modes:
  - Automatic locking
  - Manual locking
- 4-to 6-digit personal code for opening
- Locks only from the door's exterior side
- Simple operation
- Easy installation (including retrofit)
- Wire-free installation
- Low-cost maintenance

Specifications
- Door thickness: 35-80 mm
- 7 or 8 mm spindle
- Up to 9 distinct codes
- Indication light
- Indication sound
- Battery: 2 x CR2 3V lithium
- Material: Brushed stainless steel and satin chrome zinc
- Tested with a minimum of 100,000 operations, according to EN 1906
- Fire tested according to EN 1363

Ø54
70
141

www.mul-t-lock.com

MUL-T-LOCK®
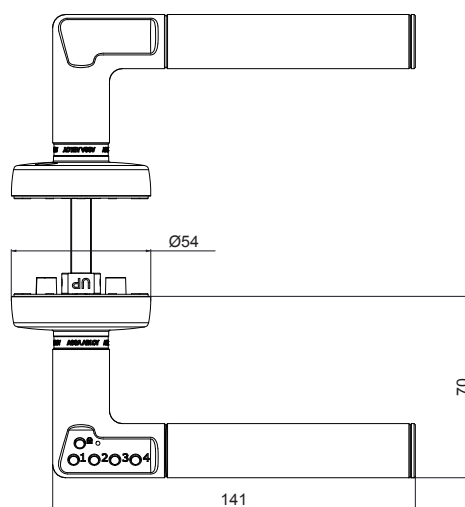
Code-It® Window
Electronic Security Handle
(suitable for DIN standard windows)

Function
Electro mechanical handle for patio/balcony doors and windows that open inwards.

Applications
Internal locking of windows and patio/balcony doors.

Features
• Keyless locking
• Internal locking for patio/balcony doors and windows
• Can be locked at any 90° angle
  - Suitable for tilt & turn windows
• Up to 5 distinct 6-digit user codes
• Simple operation
• Blocking function when the wrong code has been entered repeatedly
• Wire-free simple installation
• Low-cost maintenance
• Patented technology

Specifications
• Fits DIN standard 43 mm c/c
• Tested to meet relevant parts of EN13126-1, EN1627-30, SS 3620, ESD and EMC compatibility
• Battery: 2 x AAA alkaline (supplied with the handle)
• Battery lifetime is approximately 2 years/15,000 operations
• 7 mm spindle
• Finish
  - Satin chrome
  - White
• Supplied with standard M5 screws and security screws
• Supplied with interchangeable spindles (length: 35, 40, 55 mm)
• Indication light
• Indication sound
• Material: Brushed stainless steel and satin chrome zinc
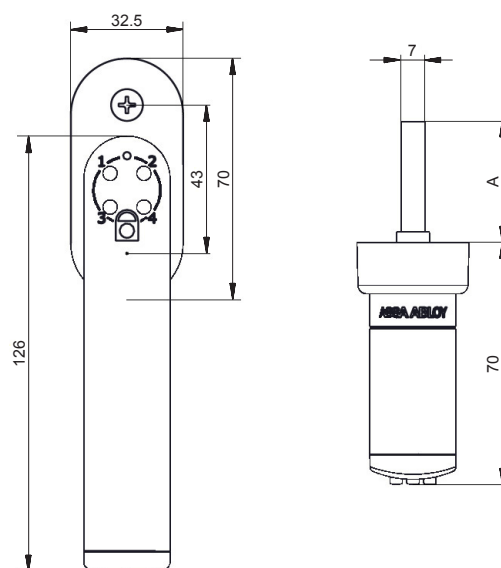
Spindle length A	
mm	Inch
35	1.377
40	1.574
55	2.165

www.mul-t-lock.com

MUL-T-LOCK®

CYLINDER

PLATFORMS

Mul-T-Lock® MT5® Platform
High Security with patented key control

Mul-T-Lock's MT5®, the 5th generation patented state-of-the-art High Security cylinder platform, with built-in experience of 3 decades, features an advanced security concept that combines several powerful elements: the patented Alpha Spring located at the tip of the key, a magnetic key duplication card, and a dedicated computerized key-cutting machine - the KC5.

All combined, these features enable millions of possible combinations, extensive master-keying capabilities, keyway exclusivity for dealers, and automatic cutting of large key series.

The MT5®'s breakthrough features include:

▶ **Patented security:** the innovative Alpha Spring at the tip of the MT5® key - with a patent that expires only in 2025, engages a unique pin at the rear of the locking mechanism, to create an additional shear line.

▶ **KC5 - a dedicated key cutting machine:** the MT5® platform is supported by the super-smart newly developed KC5 electronic key cutting machine, that duplicates MT5® keys and automatically cuts large series of keys by interfacing with MASTERpiece software.

▶ **Advanced key control:** MT5® keys are provided with a coded magnetic duplication card - which can be read by the dedicated KC5 key cutting machine.

▶ **A new configuration** of Mul-T-Lock's unique telescopic pin technology, with 5 telescopic pins that fit special cuts on the MT5® key.

▶ **A huge** number of possible locking combinations, thanks to the double locking mechanism of telescopic pins and patented Alpha Spring.

▶ **Compliance** with the toughest international standards: European EN1303, SKG (Netherlands), Israeli standard, etc.
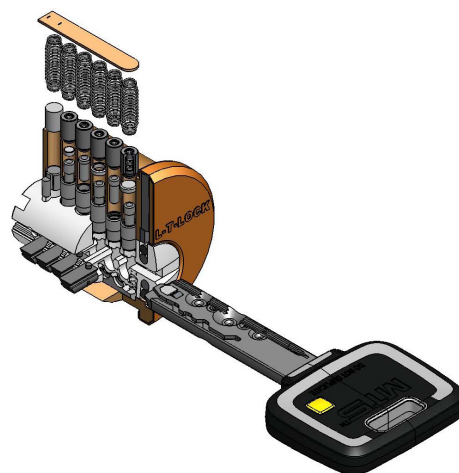
MT5®+

Mul-T-Lock® High Security is even further enhanced by MT5®+, an advanced version of the MT5® platform, featuring:

▶ An additional locking bar mechanism.

▶ An even greater number of possible combinations, enabled by the MT5®+'s three different locking mechanisms.

▶ A special milled pattern on the patented key, which fits the locking bar.

▶ Exclusive keyway options based on the milled pattern.

▶ Extensive master keying capabilities, supporting very large and complex master key systems that incorporate hierarchy and matrix design requirements even within the same suite.

MUL-T-LOCK®

www.mul-t-lock.com

Mul-T-Lock® Interactive®+ Platform
Advanced key technology

Mul-T-Lock's Interactive®+ platform builds on the foundation and innovation of the Interactive system, adding new features for enhanced effectiveness.

Mul-T-Lock's latest patent-pending technology protection is currently only available through the platform's unique pin design in Interactive®+ cylinders.

- Interactive®+ increases security effectiveness with a telescopic pin tumbler mechanism that requires the simultaneous alignment of both internal and external shear lines for plug rotation.

- Featuring enhanced intrusion protection, Interactive®+ is highly pick, drill and bump resistant.

- Coded key cards and service through trained and authorized Mul-T-Lock® Interactive®+ dealers help prevent unauthorized duplication

- Available in all formats and product types — retrofit cylinders, padlocks, locks and multi-point locks — one key can fit them all.

- Master keying capabilities allow users to design the system they need

- Backwards compatibility provides existing Interactive users the flexibility to expand their systems seamlessly and migrate to Interactive®+ at their own pace

Mul-T-Lock® Interactive®+ Platform meets the world's most stringent standards.

www.mul-t-lock.com

Mul-T-Lock® Classic Platform

Mul-T-Lock's Classic platform is based on several special features:

▶ Mul-T-Lock's unique telescopic pin tumbler mechanism, with internal and external pins – requiring the simultaneous alignment of both internal and external shear lines for the plug to rotate.

▶ A specially designed plug, which forms a spherical, 3-dimensional shear line with the top and bottom pins, within the cylinder body.

▶ Steel inserts with high drill resistance

▶ High pick and bumping resistance

▶ Optional side and back pins, specially suited for master key systems.

▶ A coded Mul-T-Lock® key card supplied in every package, to enhance key security. Additional keys may be cut by authorized Mul-T-Lock® dealers, upon presentation of the key card – in accordance with Mul-T-Lock's official key cutting procedures.
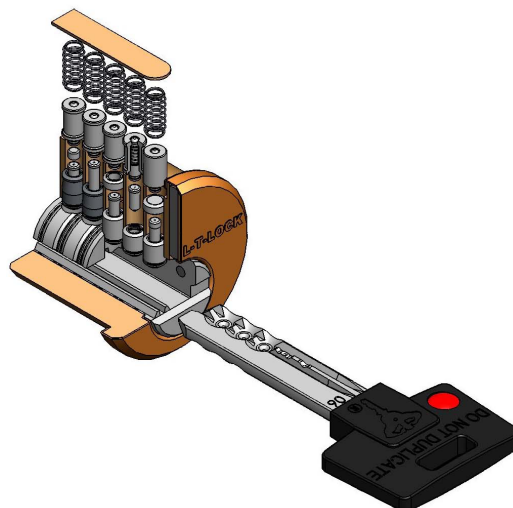
The Classic platform meets the requirements of some of the most stringent European and American standards.

Classic

MUL-T-LOCK®

www.mul-t-lock.com

Mul-T-Lock® Integrator® Platform

Mul-T-Lock's Integrator® platform, one generation ahead of the standard 7X7, introduces several advantageous features:

- ▶ A unique, high-precision 7-pin tumbler mechanism
- ▶ A patented key blank with a copy-protected oval cut, available in 3 different configurations: Internal, External and Twin
- ▶ Special launcher pins inserted into relevant cylinder plug chambers, corresponding to the key's oval cut

Thanks to its improved design, the robust Integrator® platform offers enhanced tamper resistance, a range of keyed alike and keyed different options, and flexible master keying possibilities.

Key limitation is ensured by the key and key blank, supplied together with a coded Mul-T-Lock® key card in every Integrator® package. Additional keys may be cut by authorized Mul-T-Lock® dealers, upon presentation of the key card – in accordance with Mul-T-Lock's official key cutting procedures.

www.mul-t-lock.com

Mul-T-Lock® 7X7® Platform

7X7 is Mul-T-Lock's standard platform, providing an excellent level of basic security and exceptional value for money.

The 7x7 features:

▶ A pin tumbler mechanism with 7 chambers

▶ A reversible nickel silver key with a plastic head

The 7x7 platform may be keyed alike, keyed different or master keyed.

Key limitation is ensured by the key and key blank, supplied together with a coded Mul-T-Lock® key card. Additional keys may be cut by authorized Mul-T-Lock® dealers, upon presentation of the key card – in accordance with Mul-T-Lock's official key cutting procedures.
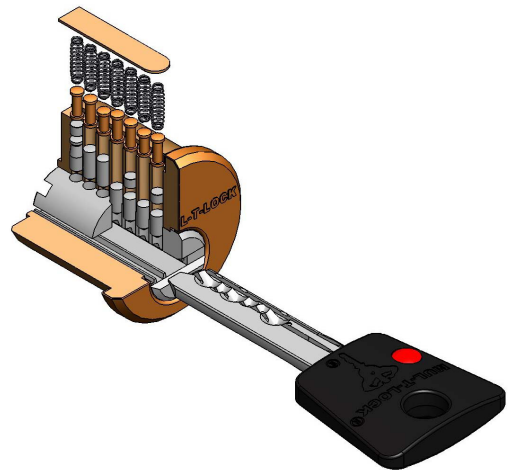
MUL-T-LOCK®

www.mul-t-lock.com

Keying Possibilities

Mul-T-Lock® offers its costumers a variety of convenient and secure keying solutions to meet their specific needs:

- **Keyed different:** Mul-T-Lock's traditional High Security equips each cylinder with its own distinct combination.

- **Keyed alike:** for exceptional customer convenience, Mul-T-Lock® has developed the One-Key-Fits-All option, enabling users to open many locks - for example: home, office, garage & file cabinet - with a single key.

- **Master keying:** large organizations enjoy Mul-T-Lock's advanced and friendly master key systems, that are easy to manage even when the requirements are vast and complex.

www.mul-t-lock.com

Master Keying
The power of being your own master

Mul-T-Lock® is a world leader in the design and manufacture of master key systems for many needs and purposes. Mul-T-Lock's master key systems offer several major benefits for end-users:

- ▶ Overloaded key rings are replaced by a single master key.

- ▶ The main master key enables system managers to open every door in the system - while other users are provided with keys that only open specific doors.

- ▶ A wide range of Mul-T-Lock® products – such as cylinders for the user's home, office and vehicle - may be incorporated into a single master key system, controlled by one key.

Mul-T-Lock's master keying products are also exceptionally locksmith-friendly and are supplied with pinning kits, tools and computerized programs.

Special training is available for dealers who wish to design and build master key systems for their own customers.

There is always a trade-off between security and convenience.
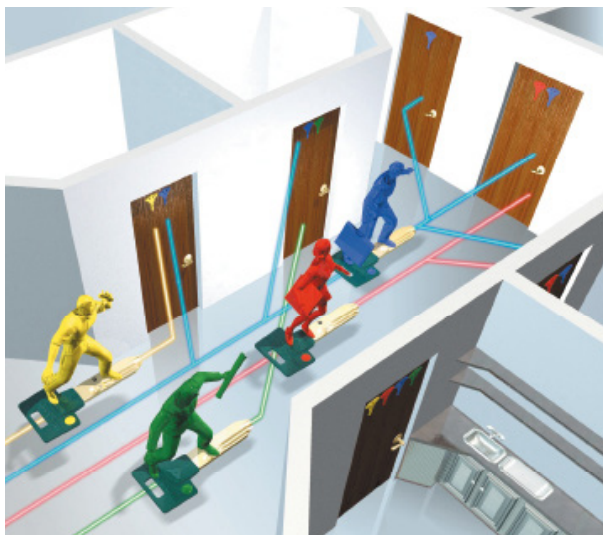
www.mul-t-lock.com

Master Keying Software

Mul-T-Lock's master keying offering includes two friendly software programs:

MASTERpiece: An advanced solution for the master key system designer. Automatically presenting all required information on the computer screen, and supporting both hierarchal and matrix design methods, MASTERpiece enables a fast, easy and efficient designing process.

Multimanager: The smart key management software program. Specially created for security officers who manage complex master key systems, this friendly program records all information about keys distributed to users.
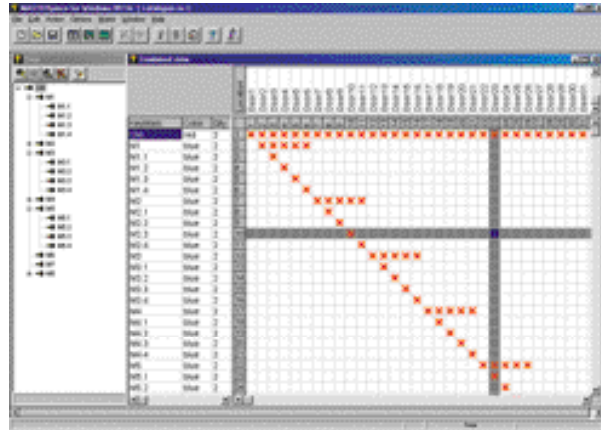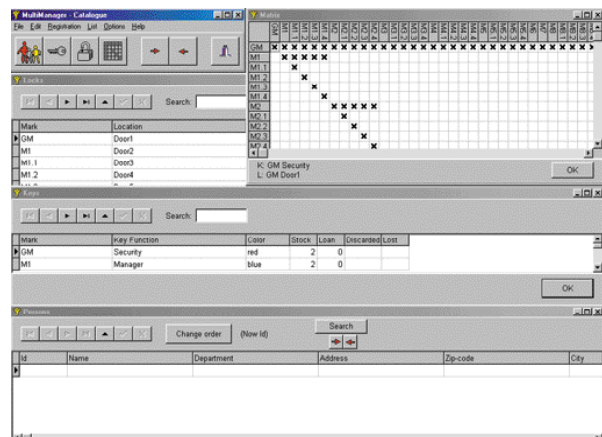
Master Keying Design Methods

Mul-T-Lock's master key systems may be based on two alternative design methods:

The hierarchal design: Incorporating several levels of access authorization, with higher levels authorized to open lower level entrances. Ordinarily hierarchal systems include Grand Master (GM) keys, which can open every cylinder in the system, all the way down to keys that unlock a single cylinder.

Illustration: In this example, the GM (Grand Master) key opens all cylinders, M1 & M2 are 2 different master keys accessing the doors of 2 separate departments, and each of the bottom level keys, such as M1.1.1 and M2.2, fits just one cylinder.
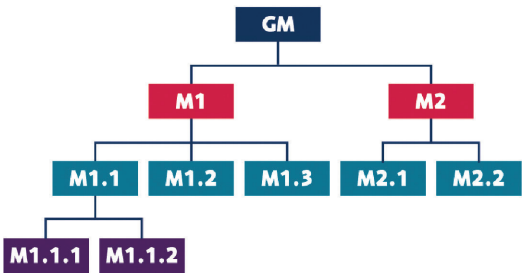
The Matrix design: Based on a matrix chart, in which each column represents a cylinder on the premises, and each row represents a key holder. This method enables the designer to define precise access authorization for each key.

Illustration: In this example, key K1 opens all 4 cylinders, K2 can only open C2, and C2 is a central cylinder, which can be opened by all 4 keys.

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Key Options
Range of key heads

Mul-T-Lock® offers a range of top quality key blanks for its various cylinder platforms.
Keys are made of high-grade metals, for long-lasting durability.
Key may include the following features:

- Reversible nickel silver design
- Colored insert for easy identification
- Option for personalized message embossed on metal or plastic key heads
- Option for plastic key heads with personalized inserts
- Key duplication card

Interactive®+ – with plastic key head

Interactive®+ – all nickel silver

Interactive®+ CLIQ®

Interactive® – with plastic key head
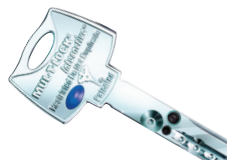
Interactive® – all nickel silver

MT5® CLIQ®

Integrator®
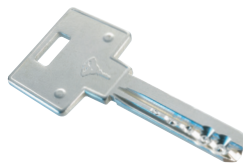
Classic – all nickel silver

MT5

Classic – with plastic key head

7X7®

MT5®

MUL-T-LOCK®

Key Options
Personalized key heads

Mul-T-Lock® offers costumers (locksmiths, OEMs etc.) three ways to personalize Mul-T-Lock's key blanks, thereby advertising their business on the keys they sell:

- ▶ A new cost-effective concept - personal info (name, logo, phone, etc.) embossed on plastic inserts, available in two different shapes that fit into special insert-compatible plastic key heads

- ▶ Personal info embossed on plastic key heads

- ▶ Personal info embossed on key heads of metal key blanks
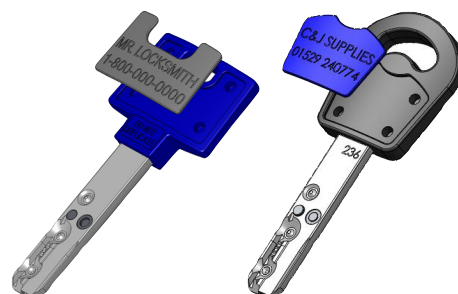
Ordering key blanks

To order the key blanks of your choice, you must send in the appropriate key blank identification code, consisting of 4 digits/characters: 206S, 006C, 005C, etc.

2 06 G

0	Classic/7X7®	Profile	**C**	Classic platform
1	Interactive®+ /Integrator® chamber first position		**S**	Silver - Interactive®+ platform
2	Interactive®+ /Integrator® chamber second position		**B**	Black - Interactive®+ platform
3-7	Integrator® chamber in 3-7 position		**G**	Gold - Interactive®+ platform
8-9	MT5®		**M**	Integrator® double cut profile
			P	Integrator® internal cut profile
			E	Integrator® external cut profile
			7	7X7® platform
			A	MT5®
			B	MT5®+

To order your personalized inserts or key blanks with personalized key heads (plastic or metal), please email the info to be advertised on the key head to Mul-T-Lock® Headquarters.

The personalized key head will be designed, and once you have approved the graphics and placed your order, the personalized key blanks / inserts will be produced and delivered.

Please note:
Minimum quantity per order is:

- ▶ Plastic inserts – 3,000 units

- ▶ Key blanks with personalized plastic key heads – 2,500 units

- ▶ Personalized all-metal keys blanks - 1,000 units

MUL-T-LOCK®

www.mul-t-lock.com

SynerKey

Function

A mechanical key with a key head that can house transponders for electronic access control systems; allows users to conveniently use a single all-in-one key for opening both mechanical cylinders and doors secured by RFID access control systems.

Applications

Facilitates installation and use of mechanical platforms in apartment and office buildings, seniors' homes and other premises secured with RFID access control systems.

Recommended for new applications that combine a mechanical Mul-T-Lock® platform with access control solutions, such as Mul-T-Lock's new SMARTair™.

Features

- Key head may incorporate round or capsule transponders.
- Compatible with all mechanical Mul-T-Lock® platforms: 7x7, Classic, Integrator®, Interactive®+, MT5®.
- Compatible with electronic RFID access control systems, such as Mul-T-Lock's SMARTair™.

Specifications

- Colors of plastic key head covers: black, blue, red, green, orange, yellow
- Transponder dimensions:
  - Round transponder: 22 mm diameter
  - Capsule transponder: 2 mm diameter, 10 mm length

www.mul-t-lock.com

MUL-T-LOCK®

CYLINDERS

Euro Profile Cylinder

Application
Compatible with locks and lock cases using Euro profile cylinder.

Operation
360˚ rotation by operating key or thumbturn. Standard double cylinder, full key insertion disengages other side.

Materials
Body and plug: high quality brass
Cam and cogwheel: steel
Pins: nickel silver and stainless steel

Standard finishes
Nickel satin, brass, shiny brass

Special finishes
Nickel chrome, antique brass

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed
• Variety of thumbturns, cams and cogwheels
• Emergency cylinder with both sides permanently operational

Standards
ISI 950, EN1303

Double cylinder
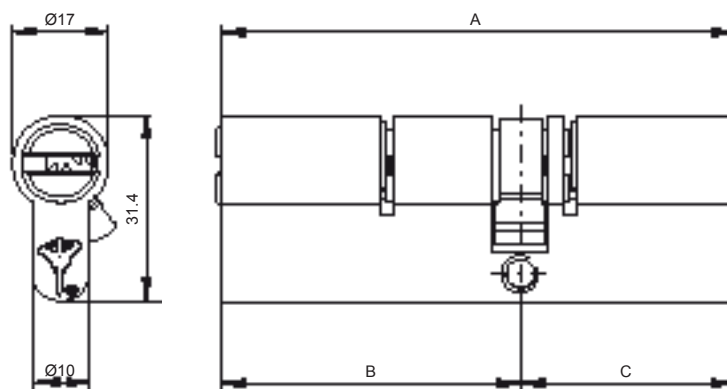
Single cylinder
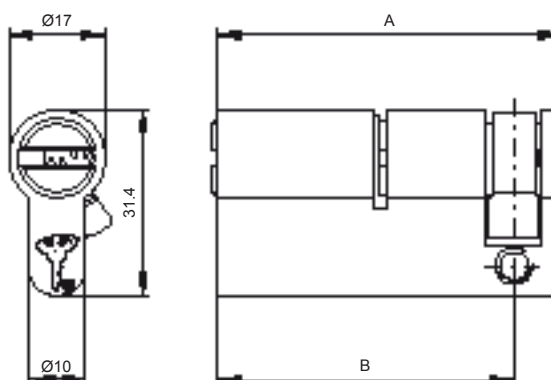
Euro Profile Cylinder
Lengths Available (mm)

Double cylinder

A	B	C
62	31	31
66	31	35
66	33	33
70	35	35
71	31	40
71	33	38
75	40	35
76	31	45
76	33	43
76	38	38
78	33	45
80	40	40
80	45	35
81	31	50
81	33	48
81	38	43
82	47.5	34.5
83	35	48
83	45	38
85	45	40
85	50	35
86	31	55
86	33	53
86	38	48
86	43	43
88	40	48
88	50	38
90	45	45
90	50	40
90	55	35
91	31	60
91	33	58

A	B	C
91	38	53
91	43	48
93	40	53
93	48	45
95	50	45
95	55	40
95	60	35
96	31	65
96	33	63
96	38	58
96	43	53
96	48	48
100	50	50
100	55	45
100	60	40
100	65	35
101	31	70
101	38	63
101	43	58
101	48	53
101	68	33
105	55	50
105	60	45
105	65	40
105	70	35
106	53	53
110	55	55
110	60	50
110	65	45
110	70	40
110	75	35
111	48	63

A	B	C
115	60	55
115	65	50
115	70	45
115	75	40
115	80	35
116	33	83
118	33	85
120	60	60
120	65	55
120	70	50
120	75	45
120	80	40
125	50	75
125	65	60
125	70	55
125	80	45
130	50	80
130	55	75
130	65	65
130	70	60
130	95	35
135	55	80
135	60	75
135	65	70
135	100	35
136	68	68
140	40	100
140	60	80
140	65	75
140	70	70

Single cylinder

A	B
40.5	31
42.5	33
44.5	35
47.5	38
49.5	40
52.5	43
54.5	45
57.5	48
59.5	50
64.5	55
69.5	60
74.5	65
79.5	70
84.5	75
89.5	80
99.5	90
134.5	125

Cylinders

Note: For lengths from 40 mm up use standard plugs and additional spacers in order to get the required length. Other lengths are available by special order.

Not all lengths are available in all platforms.

www.mul-t-lock.com

MUL-T-LOCK®

U.K. Oval Profile Cylinder

Application
Compatible with lock and lock cases using UK oval profile cylinder.

Operation
360˚ rotation by operating key or thumbturn. Standard double cylinder, full key insertion disengages other side.

Materials
Body and plug: high quality brass
Cam and cogwheel: steel
Pins: nickel silver and stainless steel

Standard finishes
Nickel satin, brass

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed
• Variety of thumbturns, cams and cogwheels
• Emergency cylinder with both sides permanently operational

Standards
Applicable to CEN

Double cylinder
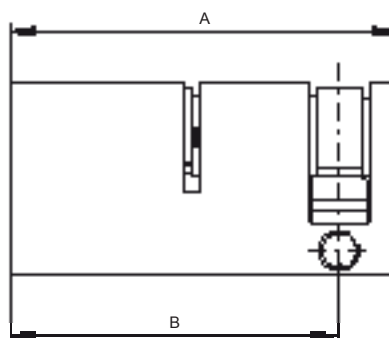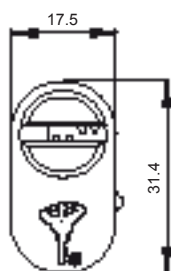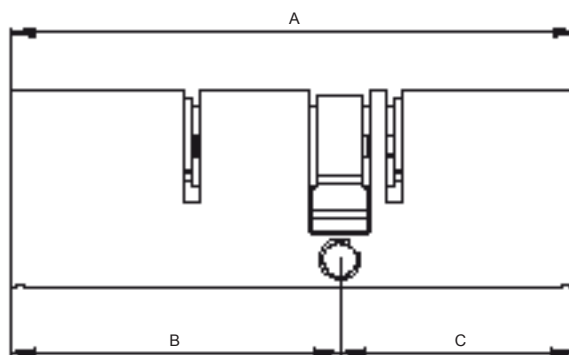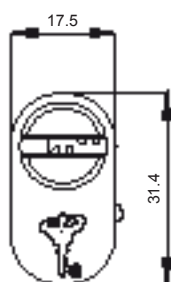
www.mul-t-lock.com

Cylinders

U.K. Oval Profile Cylinder
Lengths Available (mm)

Double cylinder

A	B	C
62	31	31
66	33	33
70	35	35
71	33	38
75	35	40
76	33	43
80	35	45
80	40	40
85	35	45
85	40	40
90	35	55
90	40	50
90	45	45
95	35	60
95	40	55

A	B	C
95	45	50
100	35	65
100	40	60
100	45	55
100	50	50
105	35	70
105	40	65
105	45	60
105	50	55
110	40	70
110	45	65
110	50	60
115	45	70
115	50	65
120	50	70

Single cylinder

A	B
42.5	33
44.5	35
49.5	40
54.5	45
59.5	50
64.5	55
69.5	60
74.5	65
79.5	70

Cylinders

Note: For lengths from 40 mm up use standard plugs and additional spacers in order to get the required length. Other lengths are available by special order.

Not all lengths are available in all platforms.

www.mul-t-lock.com

MUL-T-LOCK®

Swiss Profile Cylinder
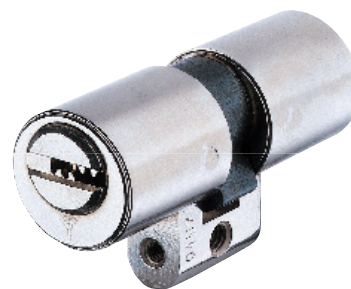
Application
Compatible with locks and lock cases using Swiss profile cylinder.

Operation
360˚ rotation by operating key or thumbturn. Standard double cylinder, full key insertion disengages other side.

Materials
Body and plug: high quality brass
Cam and cogwheel: steel
Pins: nickel silver and stainless steel

Standard finishes
Nickel satin, brass

Cylinder mechanism
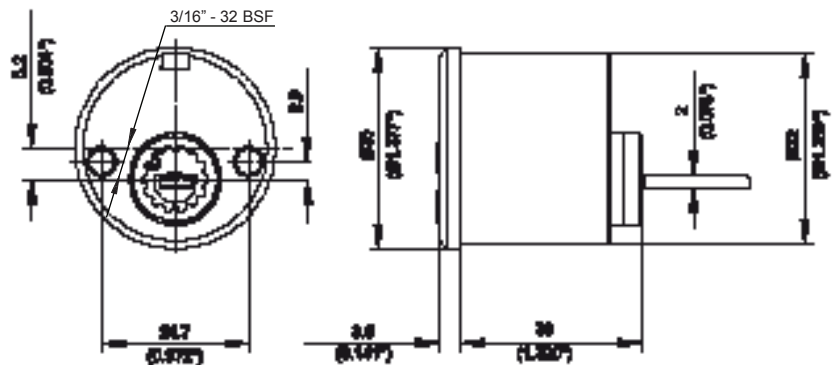Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
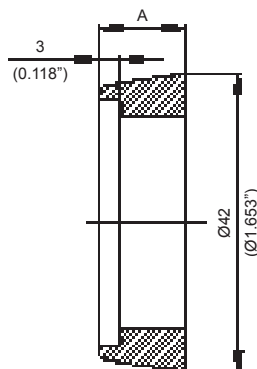• Keyed different, keyed alike
• Master keyed
• Variety of thumbturns, cams and cogwheels
• Emergency cylinder with both sides permanently operational

Double cylinder

Si
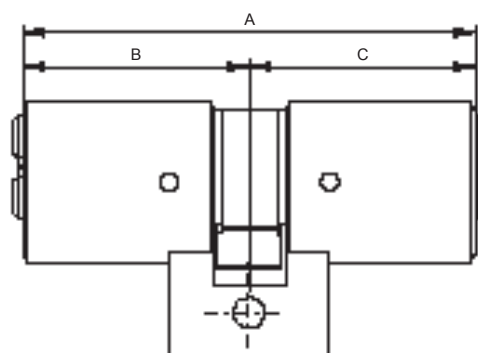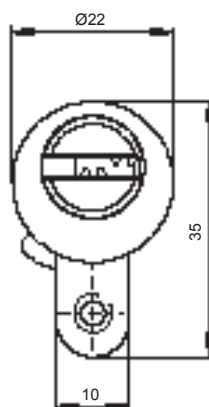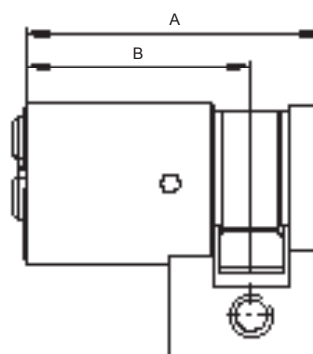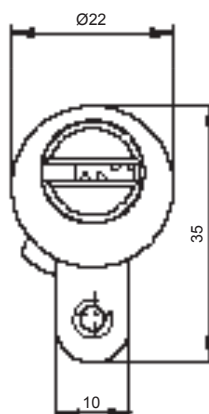
Cylinders

Swiss Profile Cylinder
Lengths Available (mm)

Double cylinder

A	B	C	Chambers
62	31	31	5
66	31	35	5
66	33	33	5
70	35	35	5
71	31	40	5
71	38	33	5
75	40	35	5
76	31	45	5
76	38	38	5
80	40	40	5
80	45	35	5
81	31	50	5
85	45	40	5
86	31	55	5
86	43	43	5
90	55	35	5
91	31	60	5
95	55	35	5
95	55	40	5
96	31	65	5
105	65	40	5
145	75	70	5

Single cylinder

A	B	Chambers
42.5	33	5
44.5	35	5
47.5	38	5
49.5	40	5
54.5	45	5

Note: Other lengths are available by special order.

Not all lengths are available in all platforms.

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MUL-T-LOCK®

Mortise Cylinder

Application
Compatible with residential and commercial door locksets. Interfaces with locksets of major brands (see available cams).
Can retrofit a 'Jumbo' cylinder with an adaptor ring.

Operation
360˚ rotation by operating key or thumbturn.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel chrome matt, nickel chrome, shiny brass

Special finishes
Antique bronze, black, antique brass, PVD

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.
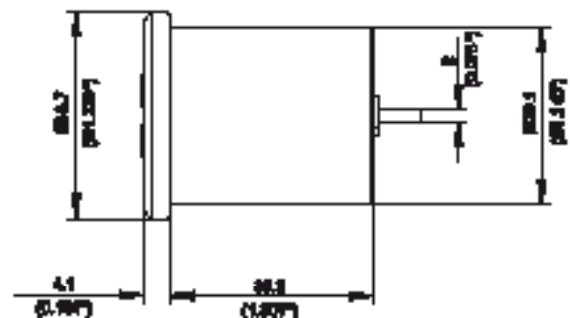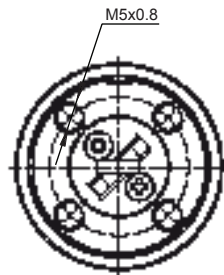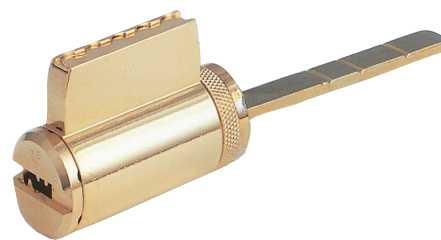
Keys
Reversible nickel silver key with plastic key head and colored insert.
Also available in all nickel silver.

Cylinder options
- Classic, Interactive®+, MT5® platforms
- '3 IN 1' (changeable combination)
- Keyed different, keyed alike
- Master keyed
- Variety of cams

Standards
ISI950
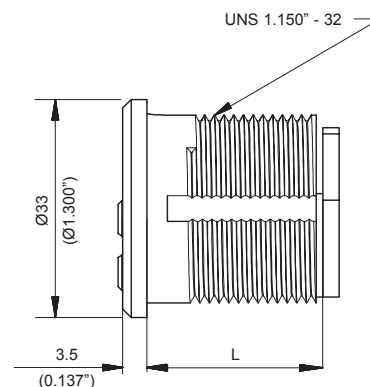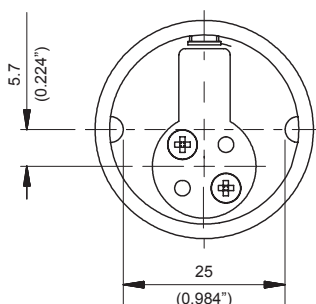
Length available (mm)

Cylinder	L	
	mm	Inch
1"(*)	23.1	0.909
1⅛"	27.1	1.067
1¼"	30.3	1.193
1⅜"	33.5	1.318
1½"	36.7	1.445
1¾"	43.1	1.697
2"	49.5	1.949

(*) Product with 4 chambers, not UL Listed.

Spacer ring
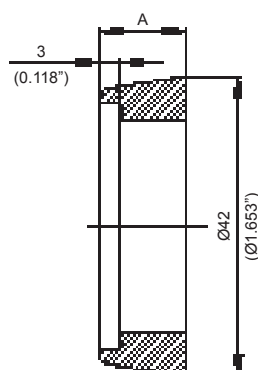
A	
mm	Inch
5.7*	0.224*
8.9	0.350
12.2	0.480
15.5	0.610
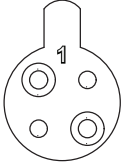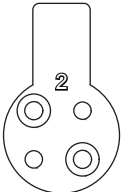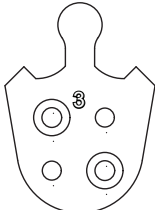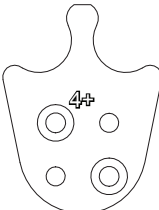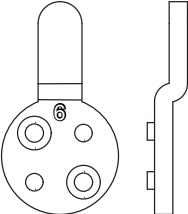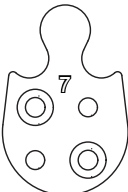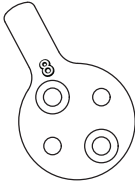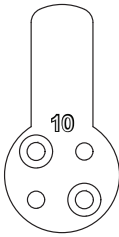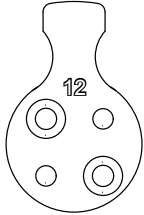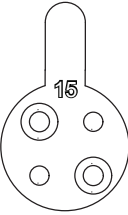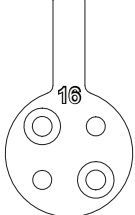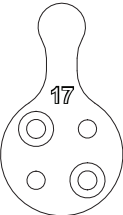
*Supplied as standard

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Mortise Cylinder Cams
Options Available

Adams Rite type P/N 85000020	Yale standard type P/N 85000014	Russwin type P/N 85000019	Falcon type P/N 85000041	Lockwood type P/N 85000054
1	2	3	4+	5

Segal type P/N 86001008	Schlage type P/N 85000057	Sargent offset type P/N 85000082	Jumbo type P/N 85000112 (Required ring 85000157)	Baldwin type P/N 85000117
6	7	8	10	11

Yale type P/N 85000165	Vingcard type P/N 51075696	Yale type A-04 P/N 85000185	Yale type 2160 P/N 85000186	
12	15	16	17	

Cylinders

MUL-T-LOCK®

Rim Cylinder
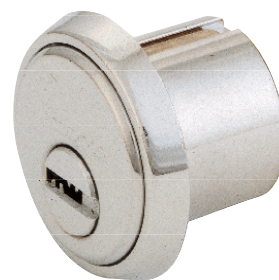
Application
Compatible with residential and commercial surface mounted door locksets. Interfaces with locksets of major brands. Suits wide range of lock mechanisms.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel chrome matt, nickel chrome, shiny brass

Special finishes
Antique bronze, black, antique brass, PVD

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed
• Variety of tails

Standards
ISI950
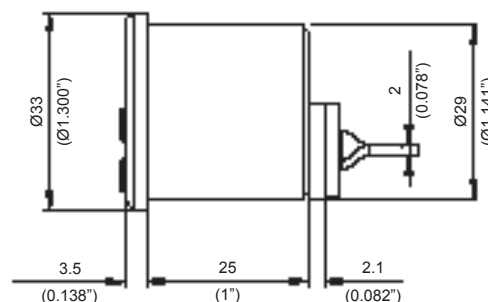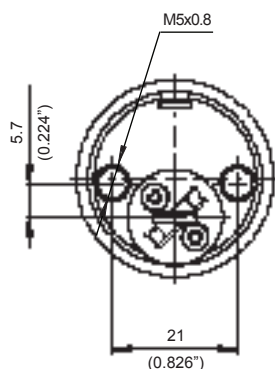
Spacer ring
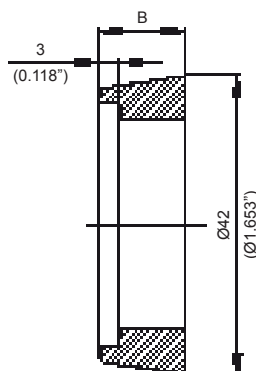
B	
mm	Inch
Flat ring**	
5.7*	0.224*
8.9	0.350
12.2	0.480
15.5	0.610

*Supplied as standard
**For rim application

Tail options
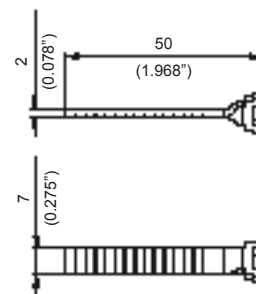
MUL-T-LOCK®

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Rim Ø35 Cylinder
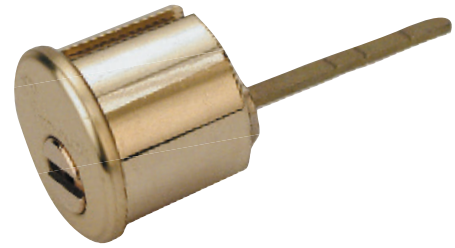
Application
Compatible with residential and commercial deadbolt locksets which require a lazy tail on round cylinder.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel chrome matt, nickel chrome, shiny brass

Special finishes
Antique bronze, black, antique brass, PVD

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

Standards
ISI950

3/16" - 32 BSF

Cylinders

MUL-T-LOCK®

Rimo Cylinder
Combined Rim & Mortise
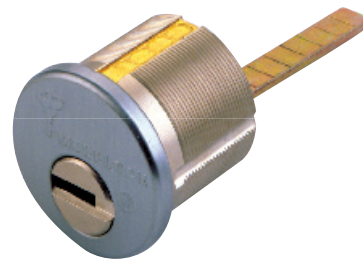
Application
Dual purpose cylinder, combination of rim and mortise cylinders in one. Compatible with residential and commercial door locksets.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel chrome matt, nickel chrome, shiny brass

Special finishes
Antique bronze, black, antique brass, PVD

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed
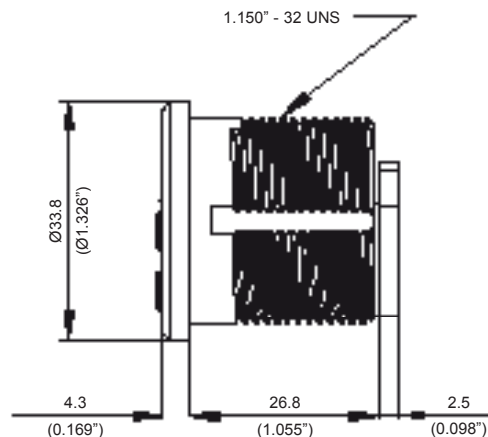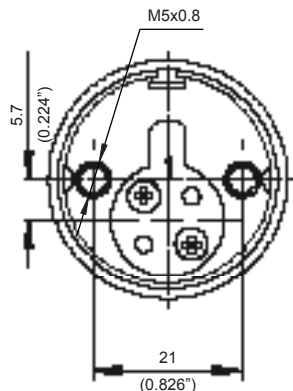
Standards
ISI950

Spacer ring

A	
mm	Inch
Flat ring**	
5.7*	0.224
8.9	0.350
12.2	0.480
15.5	0.610

*Supplied as standard
**For rim application

www.mul-t-lock.com

Reinforced Rim Cylinder
Ø29 mm (centered plug)

Application
Compatible with residential and commercial surface mounted door locksets. Central plug cylinder with four screws connecting the cylinder to the door.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel.
Pins: nickel silver and stainless steel

Standard finish
Nickel chrome matt, shiny brass

Special finishes
Nickel chrome

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

M5x0.8

Cylinders

MUL·T·LOCK®

Key In Knob (K.I.K.) Cylinder

Application
These cylinders are used in cylindrical locksets, deadbolts and padlocks. Mul-T-Lock® provides an extensive range to fit a wide variety of popular brands.

Operation
Rotation by operating key.

Materials
Body and plug: high quality brass
Tail pieces: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel chrome matt, shiny brass

Special finishes
Nickel chrome, antique Bronze, antique brass

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

How to use the K.I.K. Reference Guide:

K - K.I.K. type
T - Tail type

Kxxx-Txx

K - 3 digits, see Tables on next pages.

T - 2 digits, see Tables on next pages

T - without digits, this cylinder comes with its own tail, or does not have a tail

Example:

Description/Application	K.I.K. type
"ARROW" type knobs/levers	
"M", "H", "Q" and "S" series knobs and levers	K009-T01

009

26 (1.023")
Ø15.8 (Ø0.622")
32.4 (1.275")

01

 85800010 - Fixed tail location disk
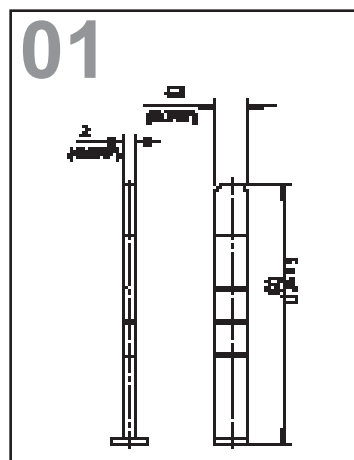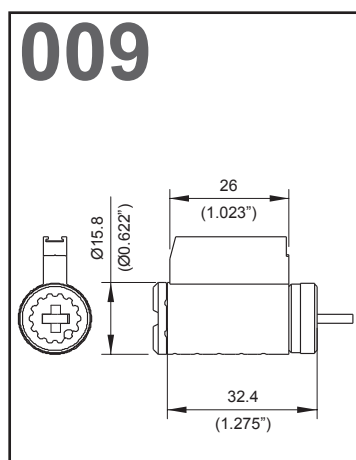
 85800009 - Lazy tail location disk

MUL-T-LOCK®

www.mul-t-lock.com

Cylinders

Description / Application		K.I.K type
"ARROW" type knobs / levers		
1	M and "COMET" series knob	K002-T
2	M, H, Q, and S series knobs and levers	K009-T01
3	K and J series interconnected double lock series (non I.C.)	K002-T
4	"ARROW" type double cylinder deadbolt	K009-T06
5	"ARROW" type single cylinder deadbolt	K002-T08
"BALDWIN" type		
6	"BALDWIN" type "LEVERSET"-"The Images Collection"	K011
7	"BALDWIN" type "KNOBSET"-"The Images Collection"	K012
"CORBIN"/"RUSSWIN" type knobs / levers		
8	CK4200, CK4400 (grade 1 knobs)	K004-T
9	CL3300, CL3600, CL3700, CL3900 (grade 2 lever)	K009-T01
10	CK4700 (grade 2 knob)	K009T01
11	UT5200 unit lock (no tail required)	K004-T
12	ED8000 panic device knob	K004-T
13	ED8000 panic device lever	K009-T
14	"RUSSWIN" type new style	K004-T01
"E-Z set" type		
15	AC 8\7\5805	K003-T09
'FALCON" type knobs / levers		
16	"FALCON" type X and F series	K007-T03
17	"FALCON" type S series	K009-T01
"LOCKWOOD" type knobs / levers		
18	All knobs except 530 series	K009-T01
19	"LOCKWOOD" Australian type	K015
"LSDA" type knobs / levers		
20	All knobs and levers series	K009-T01
"OLYMPUS" type drawer and door locks		
21	700, 800, 850 SC and LC series locks	K009-T08
"MARKS" type		
22	"MARKS" type knob / lever except classroom function	K002-T05
23	"MARKS" type knob / lever classroom function	K002-T05

Cylinders

www.mul-t-lock.com

MUL·T·LOCK®
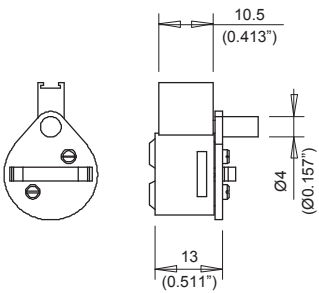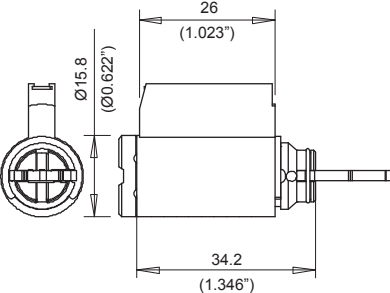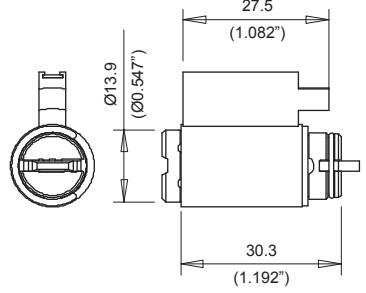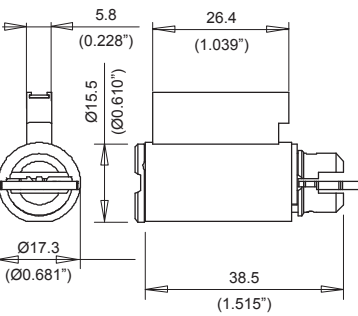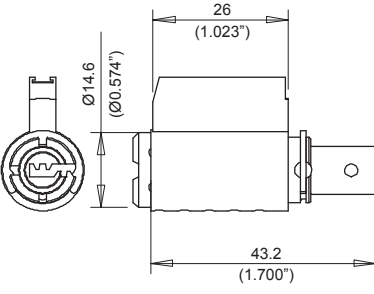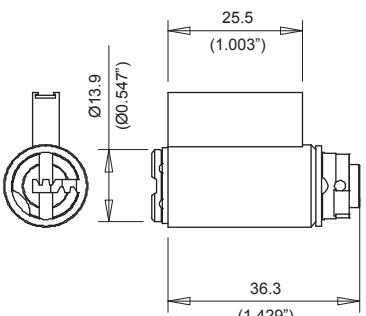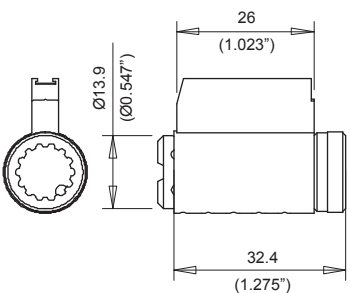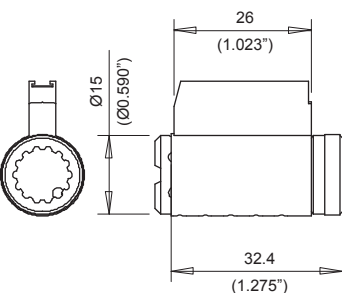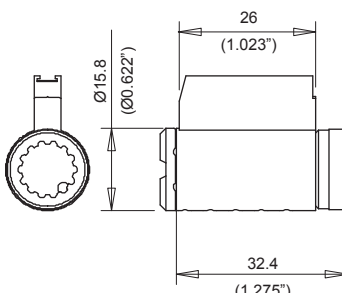
Description / Application		K.I.K type
"PDQ" type		
24	SX series grade 1 locks	K009-T01
"S. PARKER" type		
25	All grade 1 and grade 2 locksets	K002-T
"SIMPLEX" / "UNICAN" type		
26	1000 series with "SCHLAGE" I.C. override	
"SARGENT" type		
27	7, 8, 9 line knob locks	K005-T
28	7L, 8L, 9L, 10L line lever locks	K016-T
29	6, 6L line knob and lever locks	K002-T
"SCHLAGE" type		
30	A, B, D series knob and lever locks	K009-T01
31	FE575 type electronic lock	K017-T01
32	S series knob and lever locks (*use original tail and fixed tail location disk P/N 85800010)	K009-T*
33	E/B handle set with key in knob style cylinders (requires two cylinders)	K009-T08
34	H series interconnected locksets	K009-T01
35	SCHLAGE type double cylinder deadbolt - B162, B462, B562	K009-T10
36	SCHLAGE type F Plymouth knob	K014-T
37	SCHLAGE type F Orbit knob	K013-T
"UNION" type		
38	RONDO/LIRO	K010
39	1332/1334	K001
"WEISER" type		
40	Weiser 9400 series	K008-T02
"YALE" type		
41	"GULY" type & similar deadbolts	K007-T12
42	5300LN and 5400LN series. AU, MO and PB levers (except hotel function)	K006-T07
43	6400LN monolock retrofit series	K006-T07
44	4200, 5300 series knob and locks except CA design (*no tail)	K006-T
45	4300, 4300LN series levers (cut tail to fit)	K006-T07
46	540F panic bar trim	K006-T07

MUL-T-LOCK®

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Key In Knob (K.I.K.) Cylinder
Bodies & Plugs

001	002	003
10.5 (0.413")	26 (1.023")	27.5 (1.082")
Ø4 (Ø0.157")	Ø15.8 (Ø0.622")	Ø13.9 (Ø0.547")
13 (0.511")	34.2 (1.346")	30.3 (1.192")

004	005	006
5.8 (0.228") 26.4 (1.039")	26 (1.023")	25.5 (1.003")
Ø15.5 (Ø0.610")	Ø14.6 (Ø0.574")	Ø13.9 (Ø0.547")
Ø17.3 (Ø0.681") 38.5 (1.515")	43.2 (1.700")	36.3 (1.429")

007	008	009
26 (1.023")	26 (1.023")	26 (1.023")
Ø13.9 (Ø0.547")	Ø15 (Ø0.590")	Ø15.8 (Ø0.622")
32.4 (1.275")	32.4 (1.275")	32.4 (1.275")

Cylinders

www.mul-t-lock.com

MUL-T-LOCK®

Key In Knob (K.I.K.) Cylinder
Bodies & Plugs

010

27.4
(1.078")

Ø14.5
(Ø0.570")

32.4
(1.275")

011

21.3
(0.838")

Ø14.2
(Ø0.559")

33.1
(1.303")

012

25.7
(1.011")

Ø14.2
(Ø0.559")

36.6
(1.440")

013

21.9
(0.862")

Ø15.7
(Ø0.618")

30.6
(1.204")

014

34.8
(1.370")

Ø15.9
(Ø0.625")

43.7
(1.720")

015

26
(1.023")

Ø13.9
(0.547")

5

28.7
(1.130")

016

26
(1.023")

Ø13.9
(Ø0.547")

34.2
(1.346")

017

21.9
(0.862")

Ø15.8
(Ø0.622")

27.4
(1.078")

MUL-T-LOCK®

Key In Knob (K.I.K.) Cylinder
Tails

01 P/N 85800011	**02** P/N 88100003	**03** P/N 88100013

04 P/N 85806003	**05** P/N 85800012

06 P/N 85800230	**07** P/N 85800062	**08** P/N 85804003	**09** P/N 85802014	**10** P/N 85800015

11 P/N 85800066

12 L1 P/N 85800245
L2 P/N 85800246

	mm	B
L1	24.5	12.5
L2	16	7.5

13 L1 P/N 85800100
L2 P/N 85800105
*L3 P/N 85800231

	mm	Inch
L1	18.5	0.728
L2	25.4	1
L3*	50.5	1.988

*Special order

Cylinders

MUL-T-LOCK®

Norwegian Oval Cylinder

Application
Compatible with "Norwegian" profile type, mortise lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless steel

Standard finishes
Nickel satin, brass

Cylinder mechanism
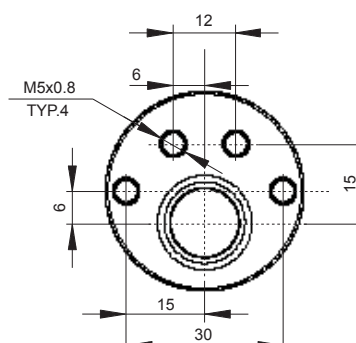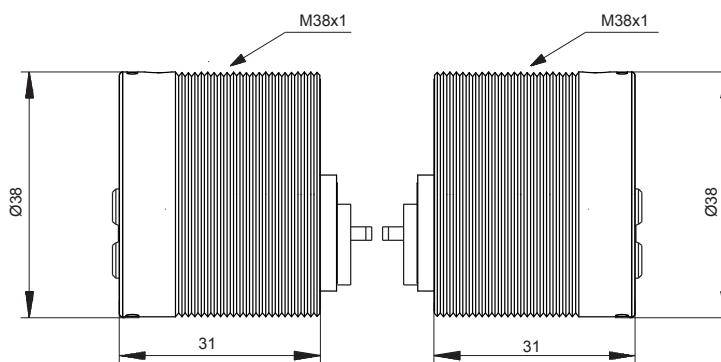Mul-T-Lock's unique, high precision pin tumbler system.

Keys
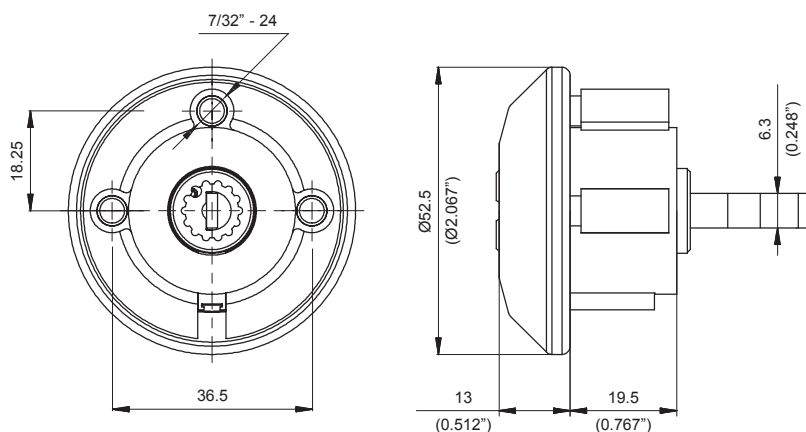Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.
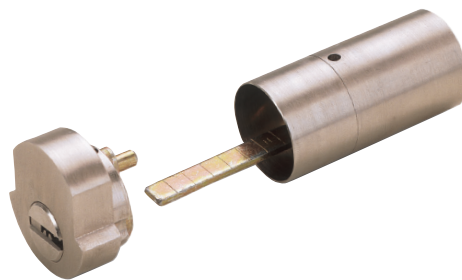
Cylinder options
- Classic, Interactive®+ platforms
- '3 IN 1' (changeable combination)
- Keyed different, keyed alike
- Master keyed
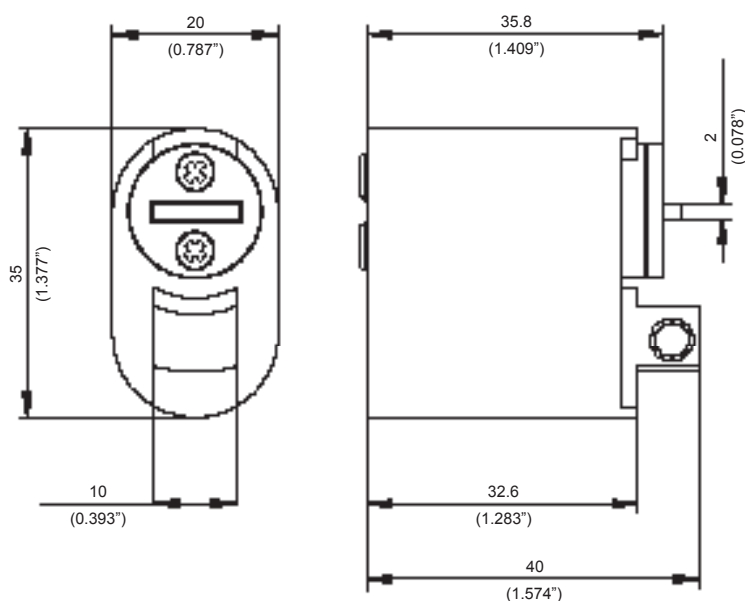
www.mul-t-lock.com

Round Cylinder for "Ruko" Type Locks

Application
Compatible with "Ruko" type cabinet lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel satin

Cylinder mechanism
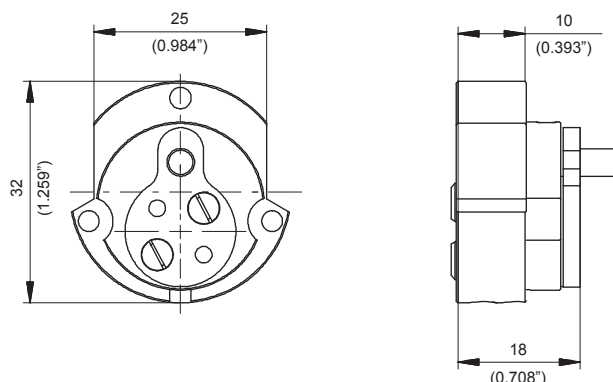Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

Ø29
(1.141")

5
(0.196")

19.8
(0.779")

29.1
(1.145")

33.1
(1.303")

Cylinders

www.mul-t-lock.com

MUL-T-LOCK®
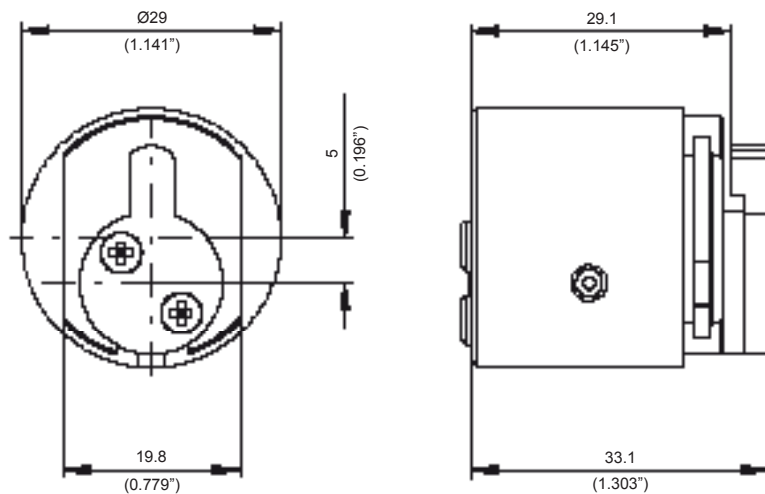
Scandinavian Oval Cylinder For "ASSA" Type Locks
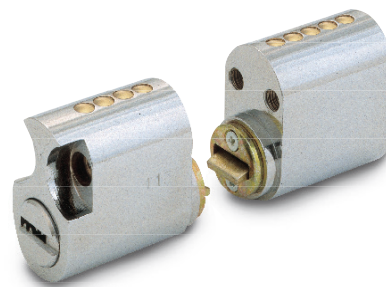
Application
Compatible with "ASSA" type lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finishes
Nickel satin, brass

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.
Note: internal cylinder with 4 chambers.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.
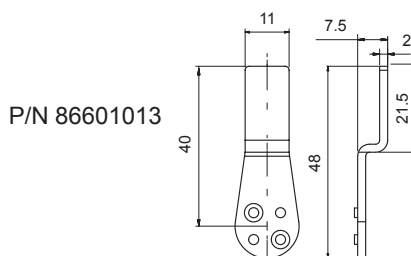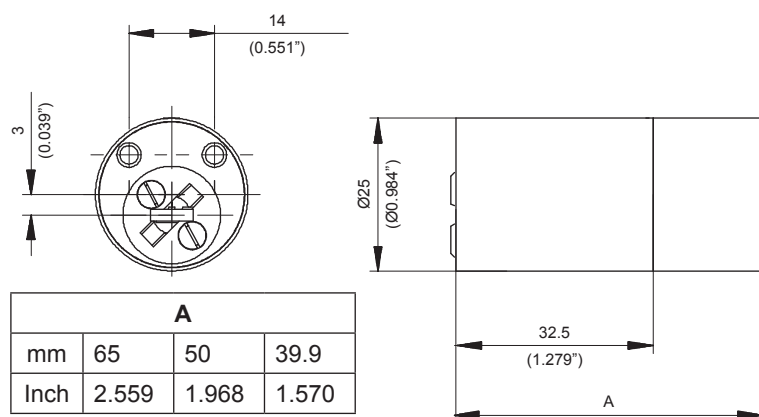
Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
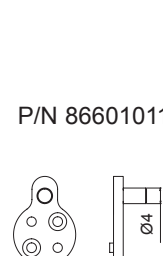• Keyed different, keyed alike
• Master keyed
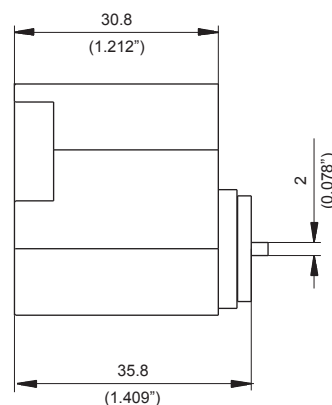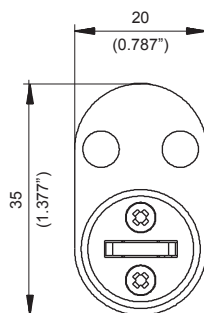
Internal cylinder
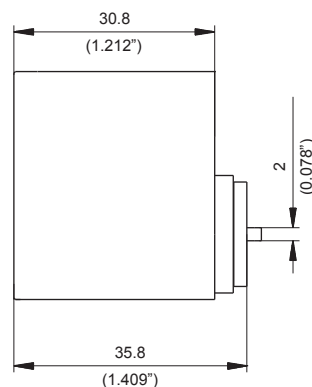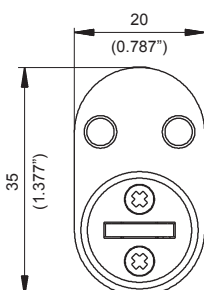
External cylinder

Available as a pair of cylinders – internal and external, or external cylinder only.

Scandinavian Round Cylinder For "ASSA" Type Locks

Application
Compatible with round "ASSA" type 7000 lock cases.

Operation
360˚ rotation by operating key.

Options
- Pair of internal and external cylinders
- External cylinder only

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless steel

Standard finishes
Nickel satin, brass

Cylinder mechanism
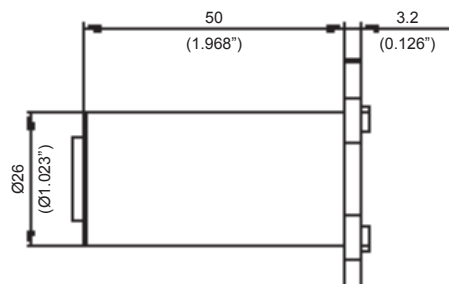Mul-T-Lock's unique, high precision pin tumbler system.

Keys
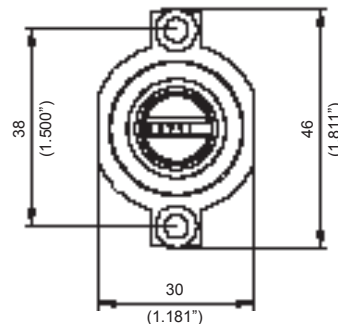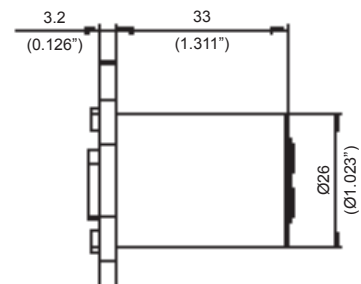Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
- Classic, Interactive®+, MT5® platforms
- '3 IN 1' (changeable combination)
- Keyed different, keyed alike
- Master keyed

Internal cylinder   **External cylinder**

Cylinder for "Ingersoll" Type Locks
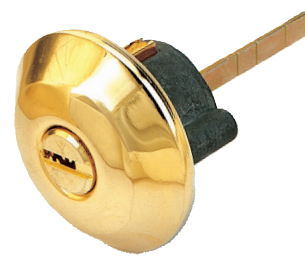
Application
Compatible with "Ingersoll" type night latch (SC 72, SC73).

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless steel

Standard finishes
Shiny brass, nickel chrome

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

7/32" - 24
18.25
36.5
Ø52.5 (Ø2.067")
6.3 (0.248")
13 (0.512")
19.5 (0.767")

MUL-T-LOCK®

Cylinder for "Cisa" Type Locks

Application
Compatible with "Cisa" type surface-mounted lock cases.

Operation
360° rotation by operating key.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

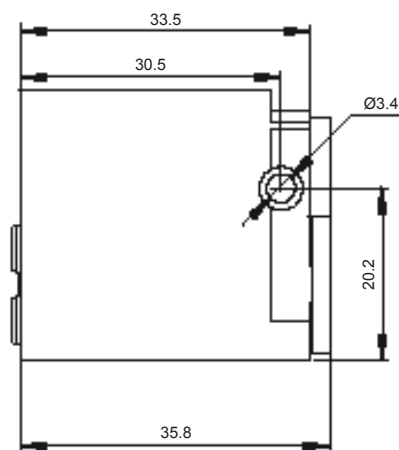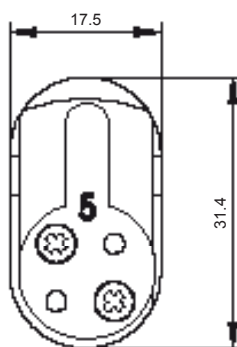## Standard finishes
Nickel satin, brass

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

Note: Internal cylinder with 2 chambers

Internal cylinder

25 (0.984")
32 (1.259")
10 (0.393")
18 (0.708")

External cylinder

14 (0.551")
3 (0.039")
Ø25 (Ø0.984")
32.5 (1.279")
A

A			
mm	65	50	39.9
Inch	2.559	1.968	1.570

P/N 86601013

11
7.5
2
40
48
21.5

P/N 86601011

Ø4

Available as a pair of cylinders – internal and external or external cylinder only.

MUL-T-LOCK®

Cylinder for "Fichet" Type Rim Locks
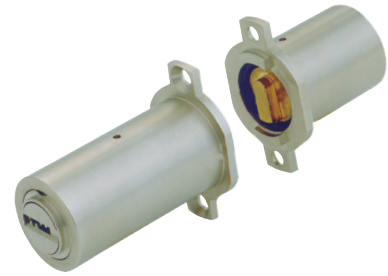
Application
Compatible with "Fichet" type rim lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Latch: cast alloy
Pins: nickel silver and stainless steel

Standard finishes
Nickel satin, brass

Cylinder mechanism
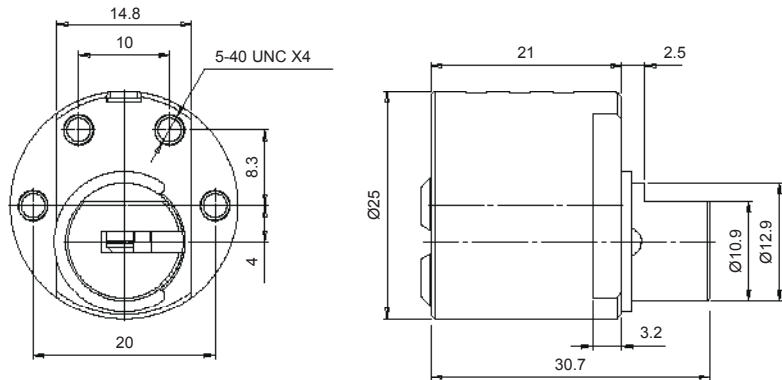Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed

External cylinder

Internal cylinder

Available as a pair of internal and external cylinders.

www.mul-t-lock.com

Cylinder for "Fichet" Type Mortise Locks
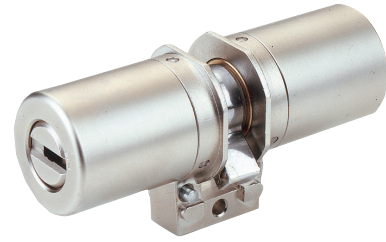
Application
Compatible with "Fichet" type mortise lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

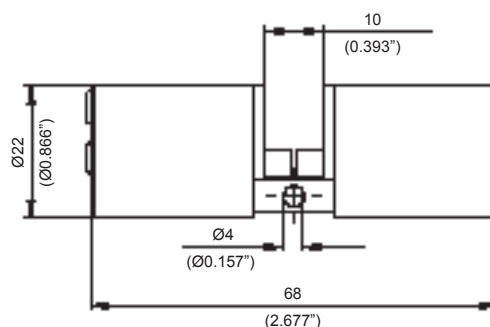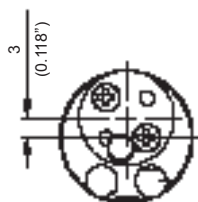## Standard finish
Nickel satin

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed

Cylinders

www.mul-t-lock.com
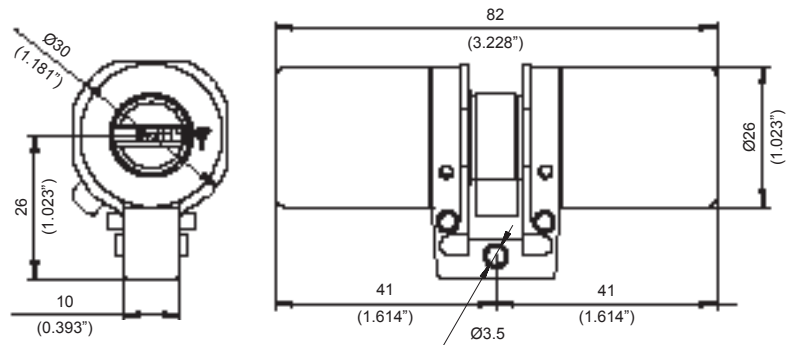
Cylinder for "Lockwood" Type Locks

Application
Compatible with "Lockwood" type lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finishes
Nickel satin, brass

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.
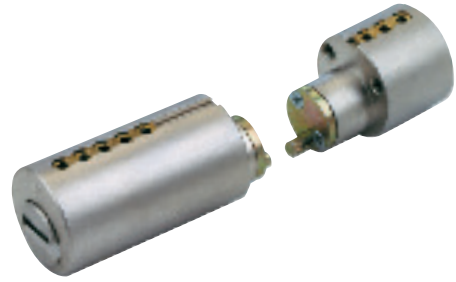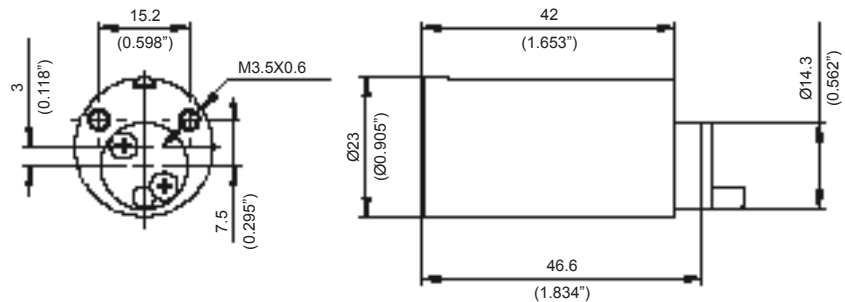
Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

www.mul-t-lock.com

Cylinder for "Prefer" Type Locks

Model 6211

Application
Compatible with "Prefer" type lock cases, models 6011, 6211.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Pins: nickel silver and stainless steel

Standard finish
Brass

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.
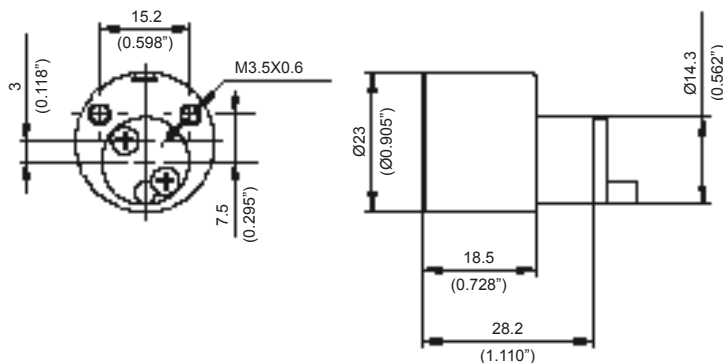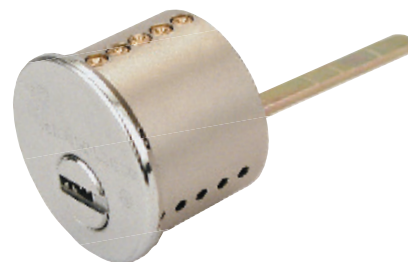
Cylinder options
• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed

Cylinders

MUL-T-LOCK®

Cylinder for "Blindex" Type Locks

For Glass Doors

Application
Compatible with "Blindex" type locks for glass doors.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finish
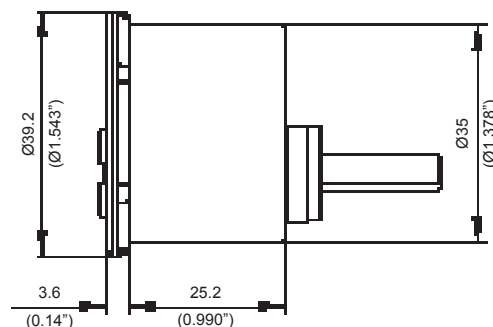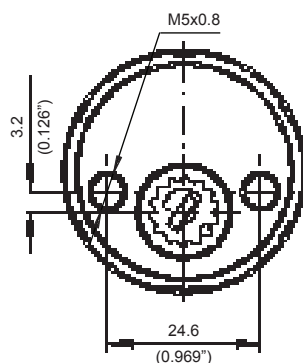Nickel satin

Cylinder mechanism
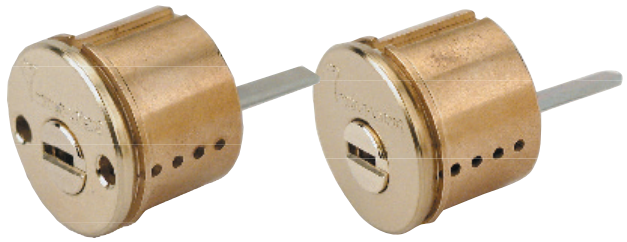Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

3 (0.118")

Ø22 (Ø0.866")

10 (0.393")

Ø4 (Ø0.157")

68 (2.677")

Cylinders

Cylinder for "Vega" Type Locks

Application
Compatible with "Vega" type lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Pins: nickel silver and stainless steel

Standard finish
Nickel satin

Cylinder mechanism
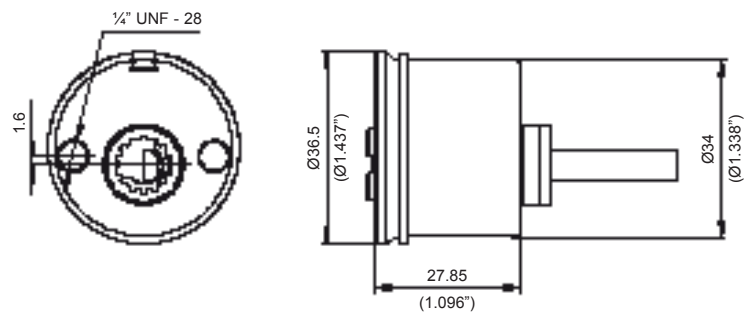Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

External cylinder

Internal cylinder

Cylinder for "Weiser" Type Locks

Application
Compatible with "Weiser" type lock D400 and "Prestige" Line.

Operation
360˚ rotation by key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless steel

Standard finishes
Brass, nickel chrome matt, shiny brass

Special finishes
Nickel chrome

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.
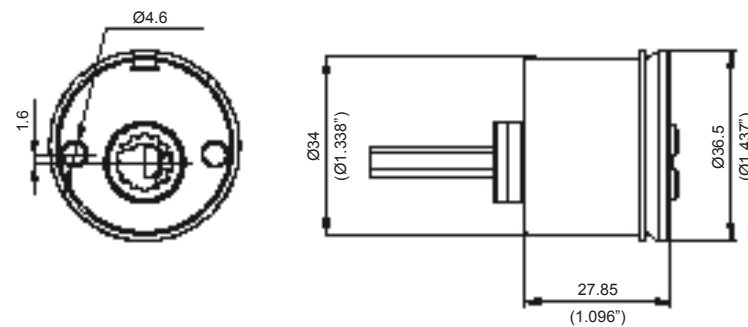
Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
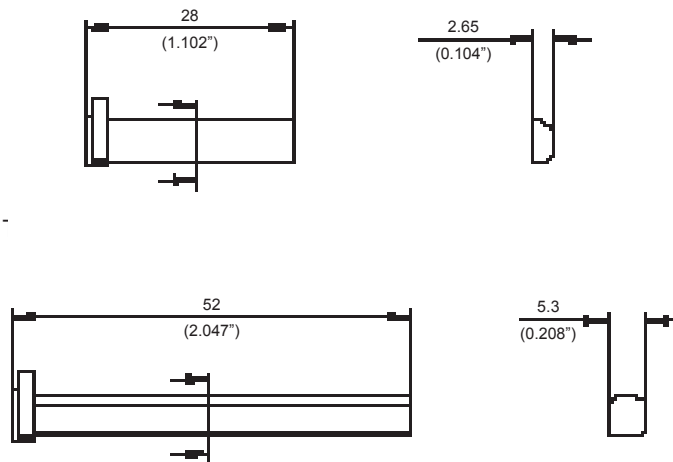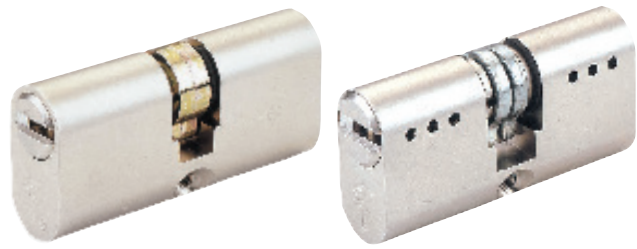• Keyed different, keyed alike
• Master keyed

M5x0.8
3.2 (0.126")
Ø39.2 (Ø1.543")
24.6 (0.969")
3.6 (0.14")
25.2 (0.990")
Ø35 (Ø1.378")

Cylinder for "Kwikset" Type Locks

Application
Compatible with "Kwikset" type
Titan type deadbolt (780, 785)

Operation
360° rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless steel

## Standard finish
Shiny brass

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

External cylinder

¼" UNF - 28

1.6

Ø36.5 (Ø1.437")

Ø34 (Ø1.338")

27.85 (1.096")

Internal cylinder

Ø4.6

1.6

Ø34 (Ø1.338")

Ø36.5 (Ø1.437")

27.85 (1.096")

Tail for double P/N 88102030

28 (1.102")

2.65 (0.104")

52 (2.047")

5.3 (0.208")

MUL-T-LOCK®

Cylinders

Cylinder for "Yale" Type ST & ST2 Locks

Application
Compatible with "Yale" type
ST & ST2 mortise lock cases.

Operation
360˚ rotation by operating key.
Standard double cylinder - both
sides permanently operational.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless
steel

Standard finish
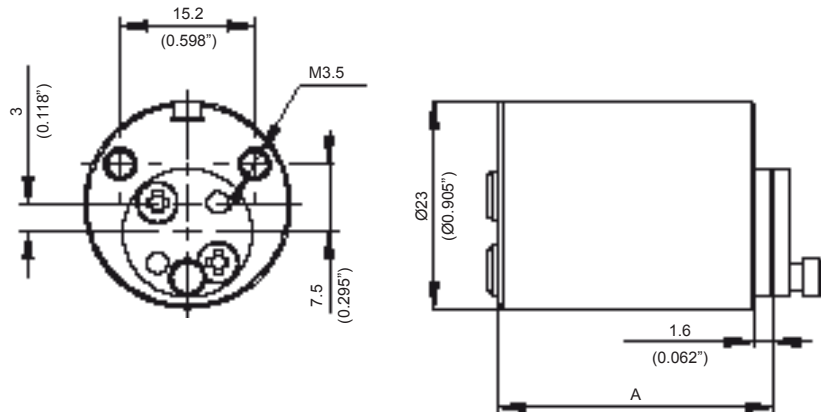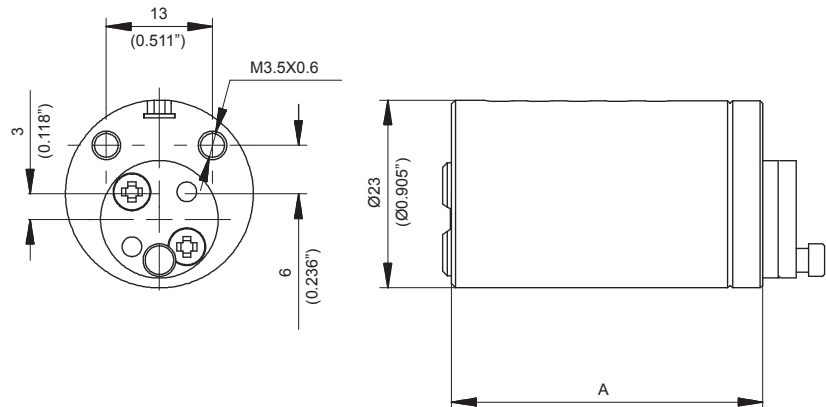Nickel satin

Cylinder mechanism
Mul-T-Lock's unique, high precision
pin tumbler system.

Keys
Reversible nickel silver key with
plastic key head and colored insert.
Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed
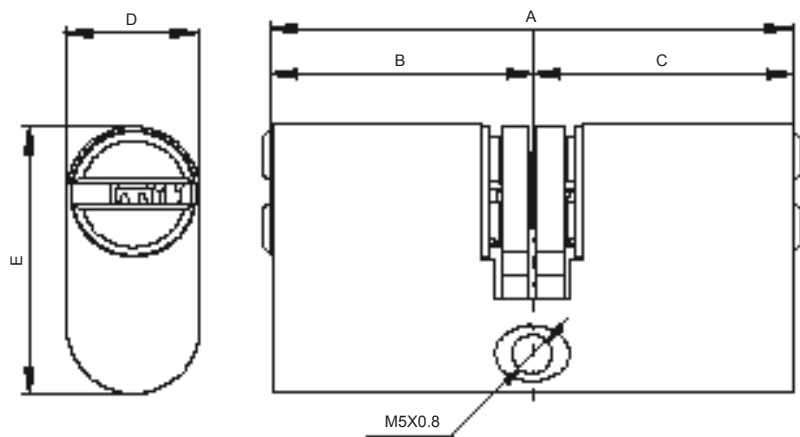
Model		A	B	C	D	E
ST2	mm	60	30	30	15	30
	Inch	2.362	1.181	1.181	0.590	1.181
ST	mm	70	35	35	17.5	34
	Inch	2.755	1.377	1.377	0.688	1.338

Cylinders

MUL-T-LOCK®

Cylinder for "Vachette" Type Locks

Application
Compatible with "Vachette" type mortise lock cases.

Operation
Rotation by operating key.
Identical inner and outer cylinders.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel satin

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

A		
	mm	Inch
Internal	30.6	1.204
External	40.2	1.582
	46.6	1.834
	53	2.086
	62.6	2.464

Cylinders

MUL-T-LOCK®

Cylinder for "City" Type Locks

Application
Compatible with "City" type mortise lock cases.

Operation
Rotation by operating key.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel
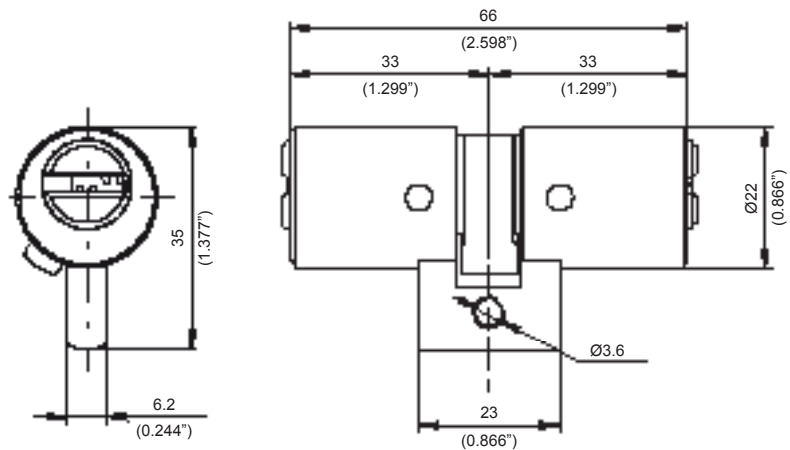
Standard finish
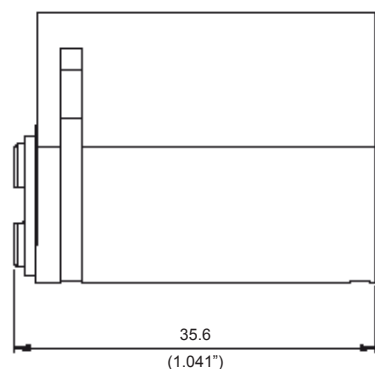Nickel satin

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
- Classic, Interactive®+ platforms
- '3 IN 1' (changeable combination)
- Keyed different, keyed alike
- Master keyed

A	
mm	Inch
40.2	1.582
46.6	1.834
53	2.086
62.6	2.464

Cylinders

www.mul-t-lock.com

MUL-T-LOCK®

Cylinder for "Bricard" Type Locks
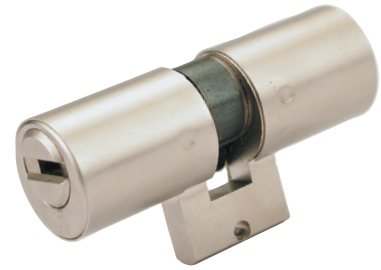
Application
Compatible with "Bricard" type mortise lock cases.

Operation
360˚ rotation by operating key or thumbturn. Standard double cylinder.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

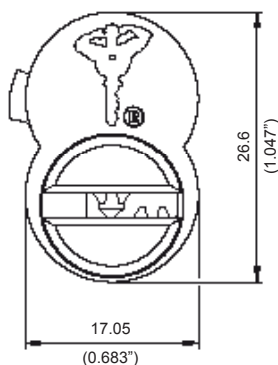## Standard finish
Nickel satin

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

35 (1.377")

6.2 (0.244")

66 (2.598")

33 (1.299")

33 (1.299")

Ø22 (0.866")

Ø3.6

23 (0.866")

MUL-T-LOCK®

Cylinder for "Yale" Type I.C. Locks

Application
Retrofitting core of "Yale" type housing for various applications.

Operation
Regular key: 360˚ rotation.
Control key: 90˚ rotation to enable core extraction.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finishes
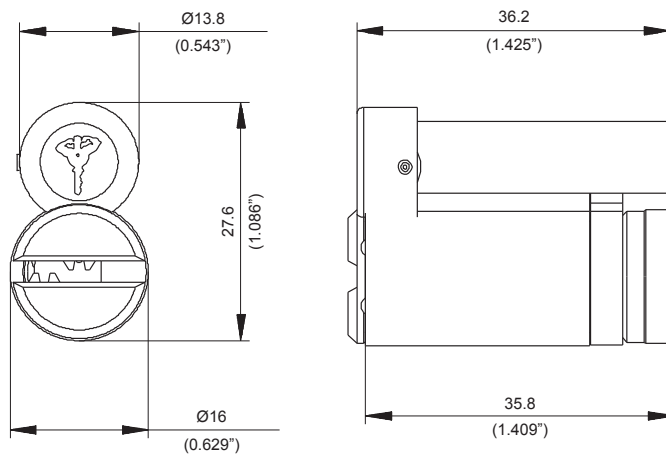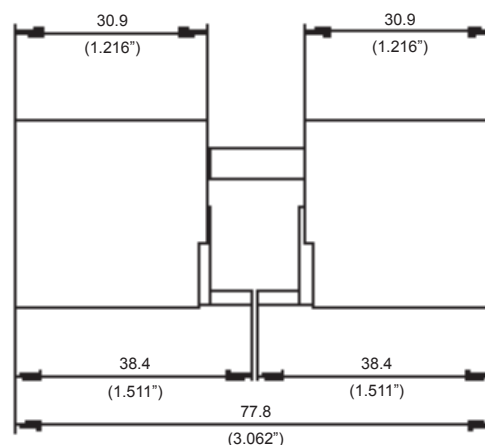Brass, nickel chrome matt

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

26.6 (1.047")

17.05 (0.683")

35.6 (1.041")

Cylinders

Cylinder for "Schlage" Type I.C. Locks

Application
Retrofitting interchangeable core of "Schlage" type housing for various applications.

Operation
Regular key: 360˚ rotation.
Control key: 90˚ rotation enables core extraction.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel chrome matt, shiny brass
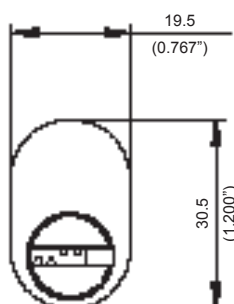
Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
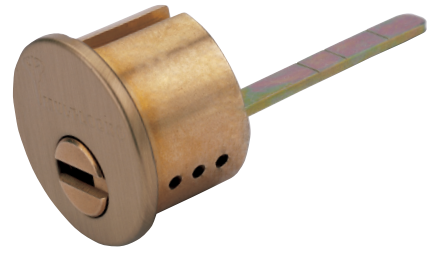Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

Ø13.8
(0.543")

27.6
(1.086")

Ø16
(0.629")

36.2
(1.425")

35.8
(1.409")

Cylinders

www.mul-t-lock.com

Cylinder for "C.V.L." Type Locks

Application
Compatible with "C.V.L." type lock cases.

Operation
360° rotation by operating key.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finishes
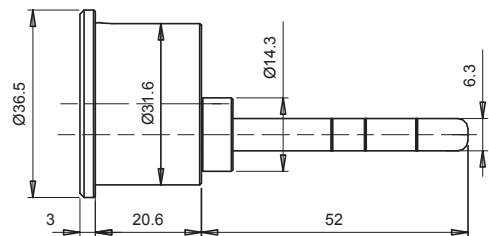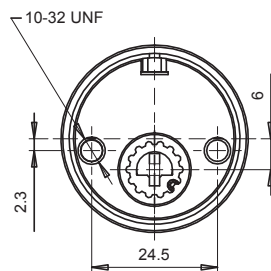Nickel satin, brass

Cylinder mechanism
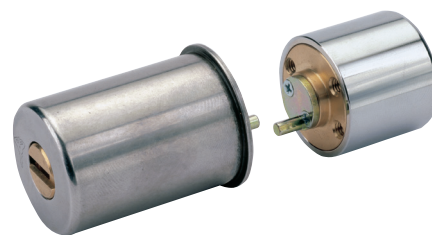Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed

Cylinder for "Baldwin" Type Locks

Application
Compatible with "Baldwin" type lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finishes
Nickel satin, nickel chrome matt, shiny brass

Special finishes
Nickel chrome, black, antique brass

Cylinder mechanism
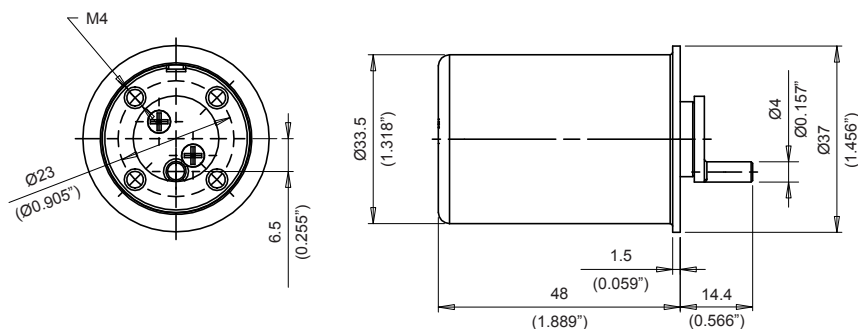Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

Cylinders

Cylinder for "Cazis" Type Locks

Application
Compatible with "Cazis" type lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel chrome

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
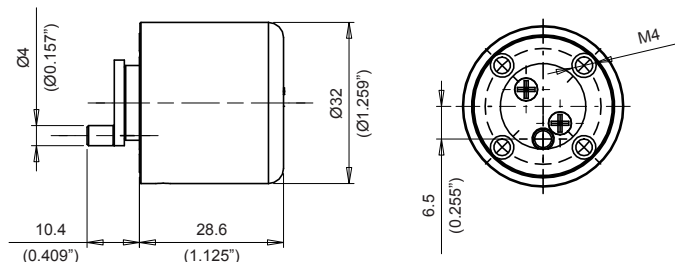Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
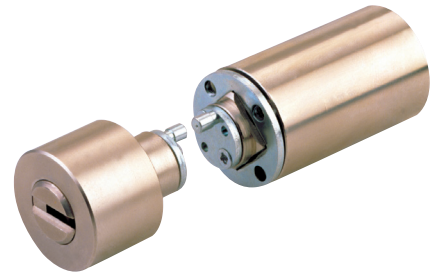• Keyed different, keyed alike
• Master keyed

External cylinder

Internal cylinder

Cylinder for "Keso" Type Locks

Application
Compatible with "Keso" type mortise lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: High quality brass
Pins: nickel silver and stainless steel

Standard finish
Nickel satin

Cylinder mechanism
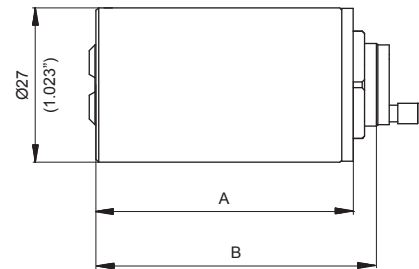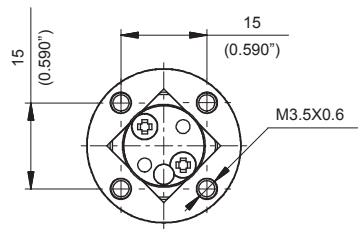Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.
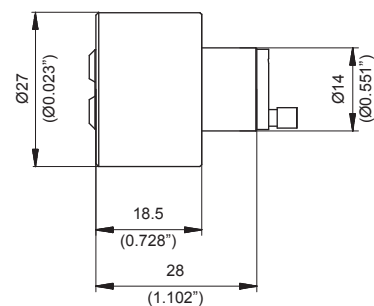
Cylinder options
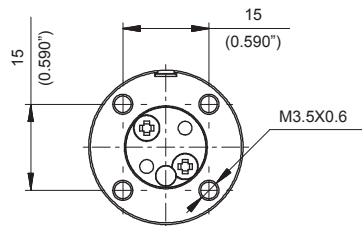• Classic, Interactive®+, MT5® platforms
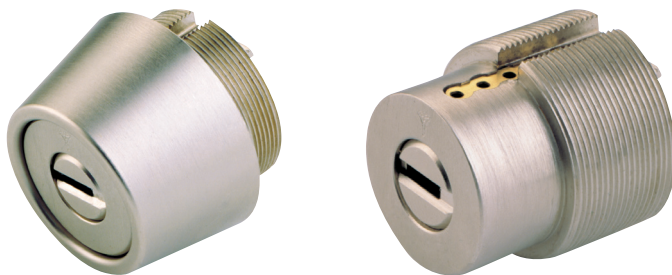• Keyed different, keyed alike
• Master keyed

External cylinder

	A		B	
mm	Inch	mm	Inch
43	1.692	49.3	1.940
80	3.164	86.3	3.397

Internal cylinder

Cylinders

Cylinder for "Miwa" Type LIX & SWLSP Locks

Application
Compatible with "Miwa" type LIX & SWLSP lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel satin, shiny brass

Special finishes
Antique brass, SBH, CCSR (polished steel)

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

Standards
CPC

LIX type lock

SWLSP type lock

www.mul-t-lock.com

Cylinder for "Miwa" Type NDR Locks

Application
Compatible with "Miwa" type
NDR lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel satin, shiny brass

Cylinder mechanism
Mul-T-Lock's unique, high precision
pin tumbler system.

Keys
Reversible nickel silver key with
plastic key head and colored insert.
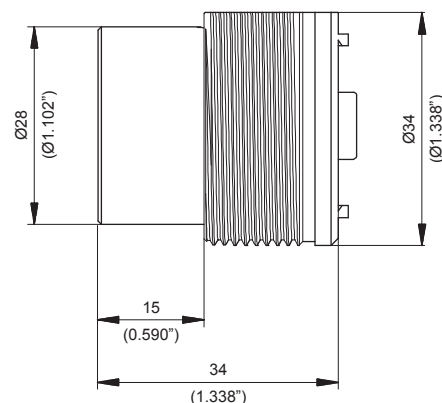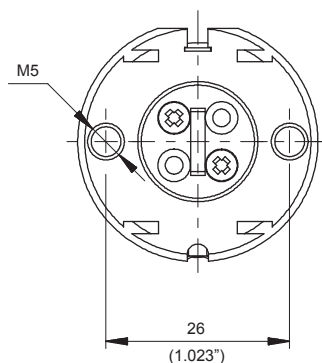Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
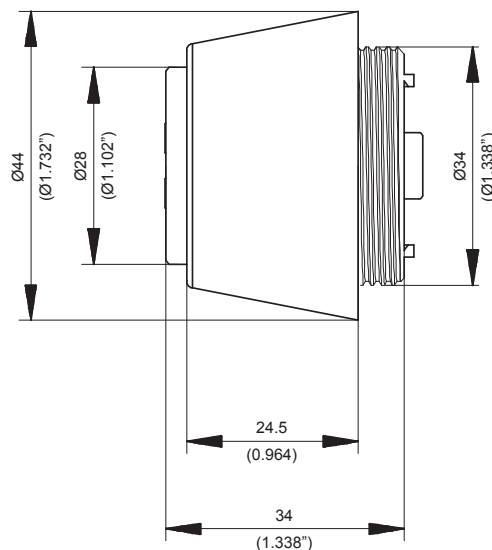• Keyed different, keyed alike
• Master keyed

Standards
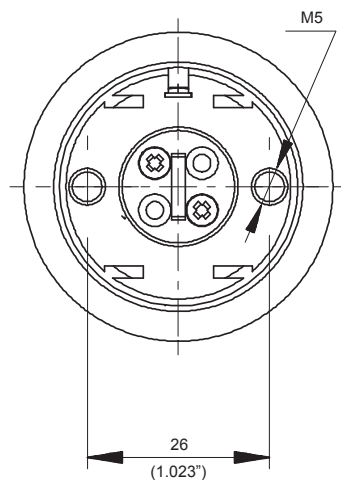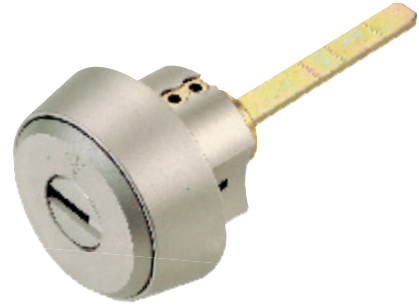CPC

Cylinders

Cylinder for "Miwa" Type BH & LA Locks

Application
Compatible with "Miwa" type BH & LA lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Pins: nickel silver and stainless steel

Standard finish
Nickel satin

Cylinder mechanism
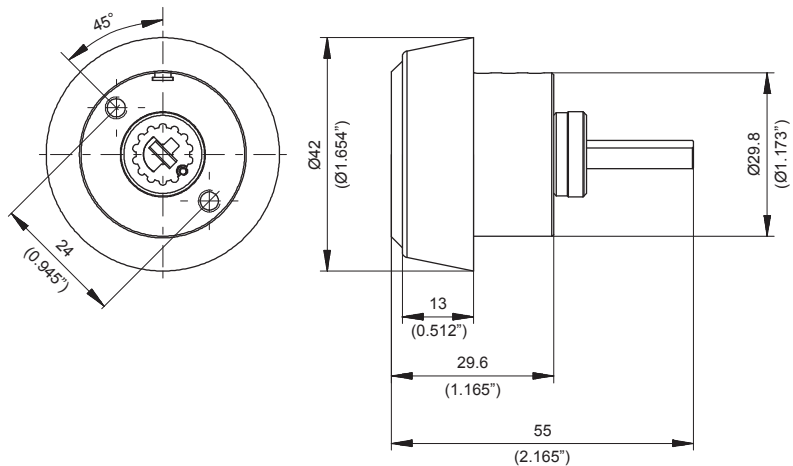Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.
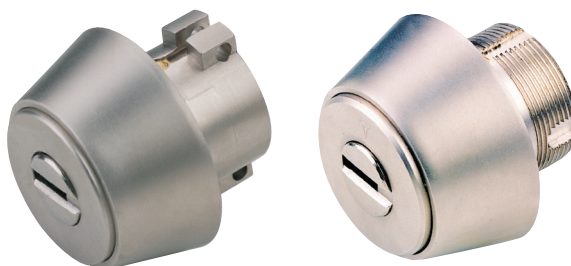
Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed

Standards
CPC

BH type lock

Ø44 (Ø1.732")
Ø27 (Ø1.062")
18 (0.708")
37.8 (1.488")

LA type lock

Ø44 (Ø1.732")
Ø3.5
2 (0.078")
Ø27 (Ø1.062")
Ø33.8 (Ø1.330")
18.5 (0.728")
34.5 (1.358")
37.3 (1.468")

MUL-T-LOCK®

www.mul-t-lock.com

Cylinder for "Miwa" Type PMK Locks

Application
Compatible with "Miwa" type PMK lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Pins: nickel silver and stainless steel

Standard finish
Nickel satin

Special finish
CCSR (polished steel)

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.
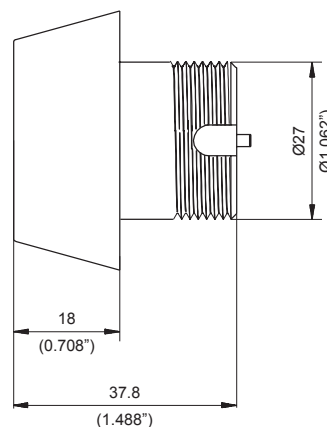
Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed

Standards
CPC

Ø24.5 (Ø0.965")

Ø23.3 (Ø0.917")

Ø31 (Ø1.220")

47.4 (1.866")

Cylinders

MUL-T-LOCK®

Cylinder for "Miwa" Type KS-112 Locks

Application
Compatible with "Miwa" type
KS-112 lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless
steel

Standard finish
Nickel satin, shiny brass

Special finishes
Antique brass, SBH,
CCSR (polished steel)

Cylinder mechanism
Mul-T-Lock's unique, high precision
pin tumbler system.

Keys
Reversible nickel silver key with
plastic key head and colored insert.
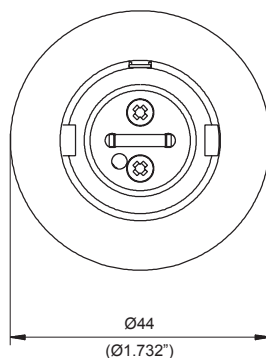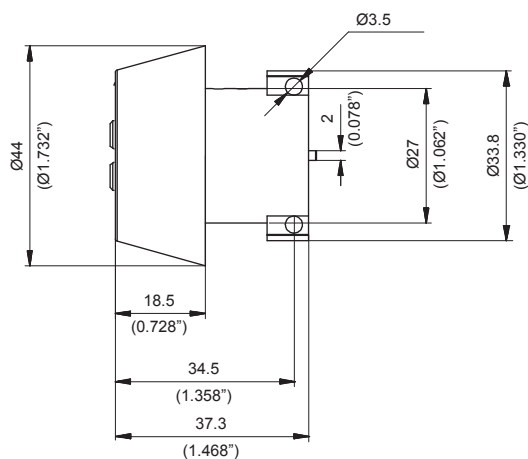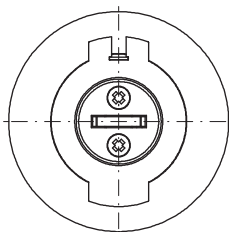Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

Standards
CPC

KS-112 type lock

Ø3.2

29 (1.141")

17 (0.669"

Ø36 (Ø1.417")

Ø25 (Ø0.984")

10 (0.393")

34.6 (1.362")
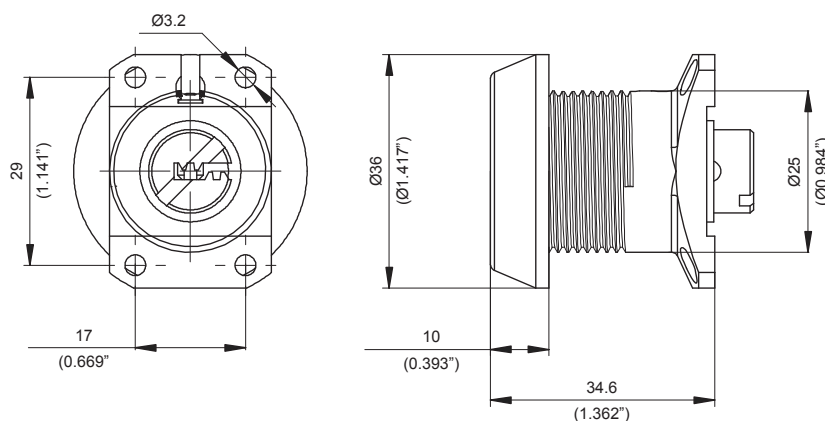
Cylinders

www.mul-t-lock.com

Cylinder for "Miwa" Type HPD Locks

Application
Compatible with "Miwa" type HPD40KJ, HPD27KJ lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel satin

Special finish
CCSR (polished steel)

Cylinder mechanism
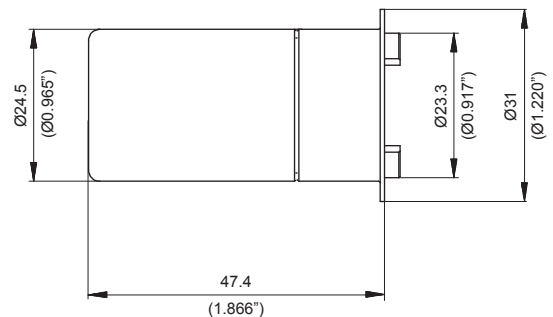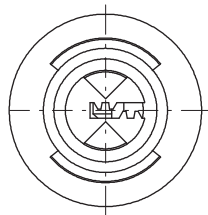Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

Standards
CPC

	A	
	mm	Inch
HPD40KJ	81.4	3.204
HPD27KJ	71.5	2.815

Cylinders

www.mul-t-lock.com

Cylinder for "Miwa" Type RA Locks

Application
Compatible with "Miwa" type
RA lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Pins: nickel silver and stainless
steel

Standard finish
Nickel satin, shiny brass

Special finishes
CCSR (polished steel)

Cylinder mechanism
Mul-T-Lock's unique, high precision
pin tumbler system.

Keys
Reversible nickel silver key with
plastic key head and colored insert.
Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed

Standards
CPC

Ø27
(Ø1.062")

Ø32
Ø(1.259")

53.3
(2.098")

58.3
(2.295")

Cylinder for "Showa" Type CL-50 Locks

Application
Compatible with "Showa" type CL-50 lock cases.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel satin

Cylinder mechanism
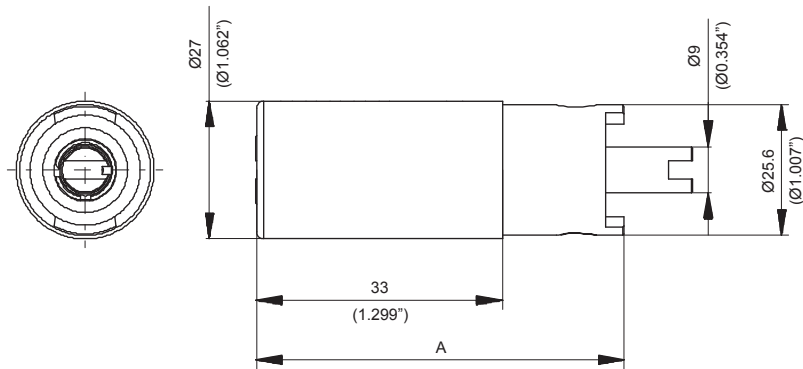Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

Standards
CPC

Cylinders

Cylinder for "Goal" Type AS.LX Locks

Application
Compatible with "Goal" type
AS.LX lock cases.

Operation
360° rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless
steel

Standard finish
Nickel satin, shiny brass

Cylinder mechanism
Mul-T-Lock's unique, high precision
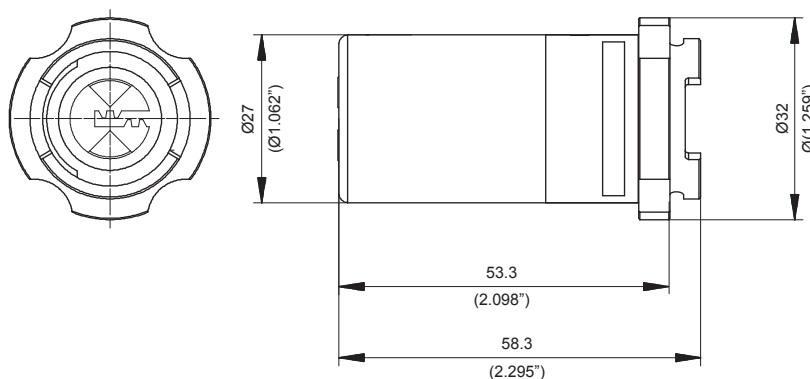pin tumbler system.

Keys
Reversible nickel silver key with
plastic key head and colored insert.
Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

Standards
CPC

MUL-T-LOCK®

www.mul-t-lock.com

Cylinder for "Goal" Type K.I.K. UC-6 Locks

Application
Compatible with "Goal" type
UC-6 K.I.K. knob sets.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless
steel

Standard finish
Nickel satin

Cylinder mechanism
Mul-T-Lock's unique, high precision
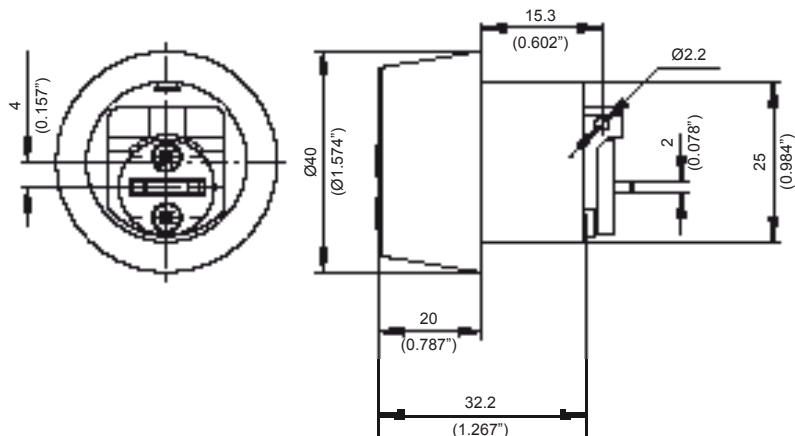pin tumbler system.

Keys
Reversible nickel silver key with
plastic key head and colored insert.
Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• '3 IN 1' (changeable combination)
• Keyed different, keyed alike
• Master keyed

Standards
CPC

Cylinders

Cylinder for "Goal" Type K.I.K. AD Locks

Application
Compatible with "Goal" type
AD K.I.K. knob sets.

Operation
360˚ rotation by operating key.

Materials
Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless
steel

Standard finish
Nickel satin

Cylinder mechanism
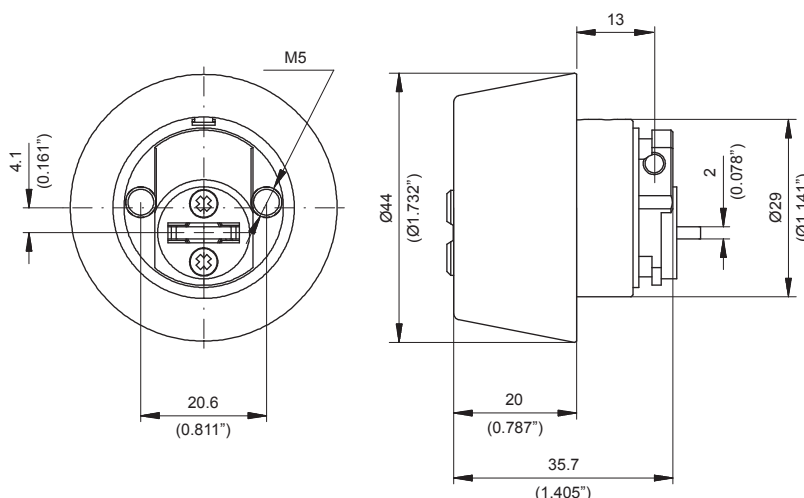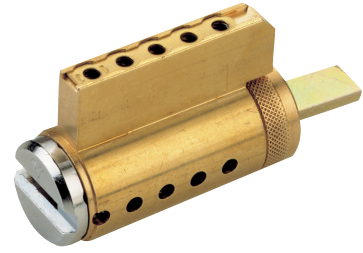Mul-T-Lock's unique, high precision
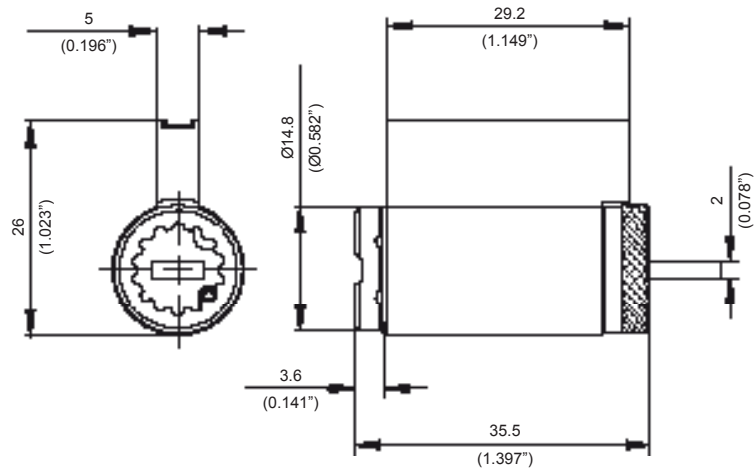pin tumbler system.

Keys
Reversible nickel silver key with
plastic key head and colored insert.
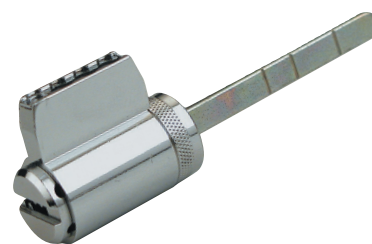Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed

Standards
CPC

5.2 (0.204")
25 (0.984")
25.5 (1.003")
Ø14 (Ø0.582")
2 (0.078")
2 (0.078")
32.5 (1.279")
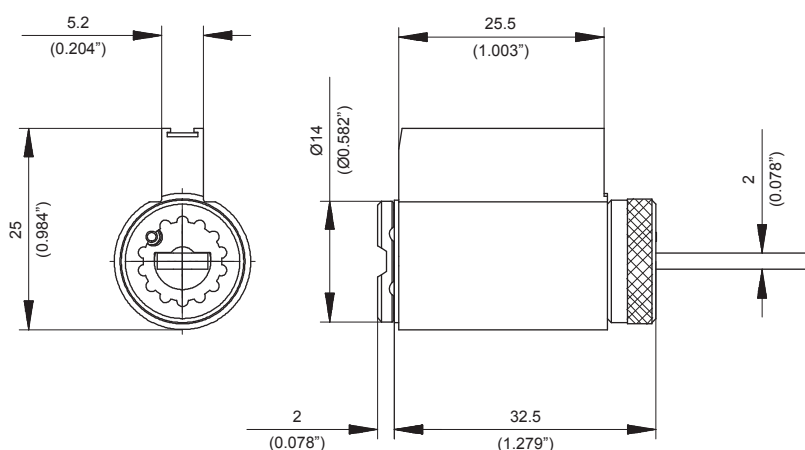
Cylinders

Cylinder Cams
Options Available (mm)

P/N 83600002	P/N 81200002	P/N 81200100	P/N 81200004	P/N 81200007
23 / 6.35	23 / 6.35	23 / 6.6 / 60°	22.3 / 5	23 / 6.2 / 30°
P/N 83600003	**P/N 81200022**	**P/N 81200009**	**P/N 81200012**	**P/N 81200013**
23 / 6.2	30° / 22.9 / 5.4	23 / 6.2	23 / 7.3 / 48°	21.5 / 4.3
P/N 83600004	**P/N 81200014**	**P/N 81200015**	**P/N 81200018**	**P/N 81200019**
23 / 6.35 / 60°	19.3 / 4.3	23.3 / 5.9 / 25°	23.3 / 5.9 / 25°	23 / 7.1 / 48°
P/N 85700003	**P/N 86101002**	**P/N 82400004**	**P/N 83003010**	**P/N 83003011**
22.4 / 5.1 / 35°	23 / 6.35	26 / 6 / 45°	120° / 23 / 6.35 / R	23 / 6.35 / L / 60°
P/N 85600004	**P/N 81700003**	**P/N 82600260**	**P/N 80002278**	**P/N 80002285**
22.4 / 5.1	180° 135° 225° 90° 270° 330° 30° 0° / 23 / 6.35	30° / 23 / E / 6.35	Split cam / 60°	TT split cam / 60°

MUL-T-LOCK®

Cylinders

Euro Profile Modular Cylinder

With the Mul-T-Lock® Modular cylinder kit, you can build cylinders of any desired length, from 31 to 80 mm.

Based on "single cylinder" lengths of 31, 33 and 35 mm, the kit contains a vast assortment of parts for building cylinder sides of any length, and creating cylinders of unusual sizes such as 31X31, 33X78, or 35X40, etc.

Assembly is as easy as 1,2,3. Just pick out the parts required for the desired length, according to the attached Reference Table, and assemble them together.

The cylinders are built on a central two-sided bar, with each side identified by a number indicating the length group it belongs to.

Bars for double sided cylinders are marked "X,X" (2 digits), while bars for single sided cylinders are marked "X" (one digit)

Example
The following parts are required for building a 31X46 mm double cylinder:
• For the 31 mm side: 1 bar type 1, 1 body type 31, plug 31, and nothing else
• For the 46 mm side: 1 bar type 2, 1 body type 31, plug 31, 15 mm body spacer, 15 mm plug spacer and 15 mm plug adapter
• 1 bar adapter
• 4 threaded pins

Note: Cylinder bodies and plugs should be ordered separately according to the profile (keyway) you are using, and based on the Reference Table.
To restock the kit, use special catalogue numbers.

Double cylinder
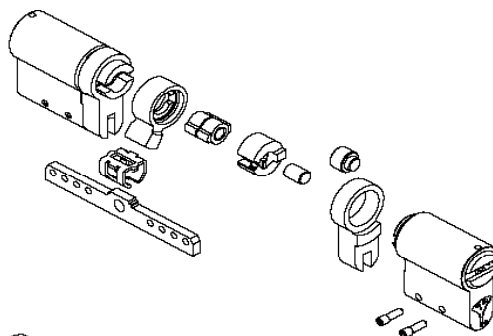
Single cylinder

www.mul-t-lock.com

Euro Profile Modular Cylinder
Catalogue Part Numbers for Restocking

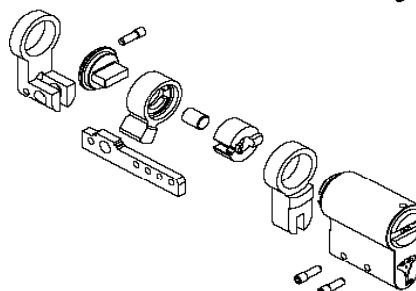|	Catalogue P/N	Description		Catalogue P/N	Description
1	84400001	Bar 1	32	88000061	Plug spacer Ø5x32 mm
2	84400002	Bar 2	33	88000062	Plug spacer Ø5x35 mm
3	84400003	Bar 3	34	88000063	Plug spacer Ø5x37 mm
4	84400004	Bar 4	35	88000064	Plug spacer Ø5x40 mm
5	84400005	Bar 5	36	88000065	Plug spacer Ø5x42 mm
6	84400008	Threaded pin	37	88000066	Plug spacer Ø5x45 mm
7	84400010	Bar adapter	38	88000067	Plug spacer Ø5x47 mm
8	84400011	Bar 1,1	39	81200100	Cam 30°
9	84400012	Bar 1,2	40	80000019	Coupling
10	84400013	Bar 1,3	41	84400130	Body spacer 5 mm
11	84400014	Bar 1,4	42	84400131	Body spacer 10 mm
12	84400015	Bar 1,5	43	84400132	Body spacer 15 mm
13	84400019	Bar 2,2	44	84400133	Body spacer 20 mm
14	84400020	Bar 2,3	45	84400134	Body spacer 25 mm
15	84400021	Bar 2,4	46	84400135	Body spacer 30 mm
16	84400022	Bar 2,5	47	84400136	Body spacer 35 mm
17	84400023	Bar 3,3	48	84400137	Body spacer 40 mm
18	84400024	Bar 3,4	49	84400138	Body spacer 45 mm
19	84400025	Bar 4,4	50	80100613	Plug adapter Ø5x10 mm
20	80000322	Plug spacer Ø7x2 mm	51	80100615	Plug adapter Ø5x15 mm
21	88000018	Plug spacer Ø7x5 mm	52	80100617	Plug adapter Ø5x20 mm
22	88000025	Plug spacer Ø7x7 mm	53	80002027	Plug adapter Ø5x25 mm
23	88000052	Plug spacer Ø5x10 mm	54	80002029	Plug adapter Ø5x30 mm
24	88000053	Plug spacer Ø5x12 mm	55	80002032	Plug adapter Ø5x35 mm
25	88000054	Plug spacer Ø5x15 mm	56	80002034	Plug adapter Ø5x40 mm
26	88000055	Plug spacer Ø5x17 mm	57	80002036	Plug adapter Ø5x45 mm
27	88000056	Plug spacer Ø5x20 mm	58	84400057	Allen key 1.5 mm
28	88000057	Plug spacer Ø5x22 mm	59	82600260	Emergency cam
29	88000058	Plug spacer Ø5x25 mm	60	87602150	STD cover 5 pin
30	88000059	Plug spacer Ø5x27 mm	61	84600053	Single CYL. coupling
31	88000060	Plug spacer Ø5x30 mm	62	51207080	Single CYL. adapter

www.mul-t-lock.com

Special Cylinder Applications

3 IN 1 cylinder

The '3 IN 1' cylinder has been designed by Mul-T-Lock® to allow users to easily change their key combinations through a simple and speedy process:
The user inserts and operates the next key in a sequence of three keys, and the introduction of each new key invalidates the previous key combination.

When all three combinations have been used, the cylinder may be re-keyed by an authorised Mul-T-Lock® locksmith.
The '3 IN 1' cylinder may be ordered with three separate duplicating cards for the green, yellow and red keys.

Flex Control

Simple. Convenient. Flexible

Mul-T-Lock's new Flex Control cylinder, operating from the High Security telescopic pin Interactive+ cylinder platform, offers a unique ability to control access in any business, retail or residential environment.

Mul-T-Lock's Flex Control cylinder offers:
Access restriction when and to whom you want
Flexible for use with all workers, whether domestic staff, temporary workers or full time employees for home or business owner
Simple to install and maintain – no wiring. Batteries or software. As simple as installing any regular cylinder
Additional keys can be supplied upon presentation of a unique registration card at an authorized Mul-T-Lock® dealer.

Feature and benefits at glance:
Choice - decide when and for how long blue key holder can gain access to the premises.
Efficient security: no need to replace the cylinder or collect keys to restrict access.
Cost effective – Replaces the need for additional lock that are often install to restrict access.
Flexible format – Suitable for cylinders of any length.
Patent Protection – Utilising the Interactive+ platform offering a high level of protection and security for any property.

With every FleX Control cylinder, you will receive a set of four color-coded keys:
White key – neutral key, for you and anyone you want to have full-time access, such as you and your family members or key employees
Blue key - for those you want to have limited access and at the times you decide
Red and Green keys - allow you to control the blue key holder's access by rotating the cylinder 90° clock wise or counter clock wise with either the red or green key
Supplied with a single magnetic strip card, printed with all key codes
The new Flex Control Cylinder can provide reassurance and controlled access to any premises in a simple 90º turn of the cylinder. By using the patent protected control keys provided, Mul-T-Lock® present a simple, cost effective way to control access rights for a business or home using trusted and proven mechanical technology.

Construction master cylinder

Mul-T-Lock® has developed a new-concept High Security construction master cylinder, that provides construction contractors with maximum convenience, while ensuring peace of mind for new property owners.
Contractors using the new product enjoy control of all apartments on the construction site - or even on several sites - with one master key.
Each cylinder in the system also has an owner key, provided to the owner when he/she moves into the apartment.
At this time a technician turns a special change key in the cylinder, disabling the contractor's master key. This procedure is not reversible.
This creative new solution is fully contained in the cylinder itself and requires no supplementary devices.
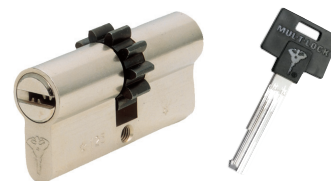
MUL-T-LOCK®

www.mul-t-lock.com

Special Cylinder Features

Reinforced cylinder

Enhanced resistance to breaking attempts.

Emergency cylinder

Operated with keys inserted and rotated on opposite sides, enabling both sides to be permanently operational.

Break Secure cylinder

Patented Euro profile cylinder, specially developed by Mul-T-Lock® to meet a specific need: enhancing resistance to manipulation attacks. Unlike ordinary cylinders that tend to break in the middle when manipulated, allowing the door to be opened by attacker Break Secure snaps at the front. This keeps the door locked and the burglars outside, and permits the owners to open the cylinder with their original Mul-T-Lock® keys when they return.

Anti-ligature thumbturn with external override

Innovative thumbturn with emergency override mechanism, specially designed to address the risk of self-harm within psychiatric and probationary type accommodation facilities.
Allows occupant privacy, while enabling immediate access for medical or supervisory staff if necessary.

Cylinders

MUL-T-LOCK®

Cylinder Accessories

Thumbturn range

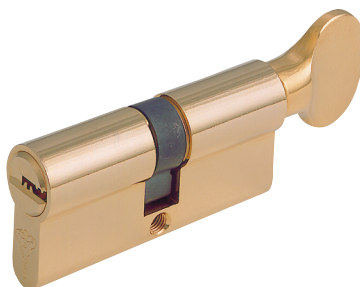**Ellipse thumbturn**

Oval thumbturn

Round thumbturn

Anti-ligature thumbturn
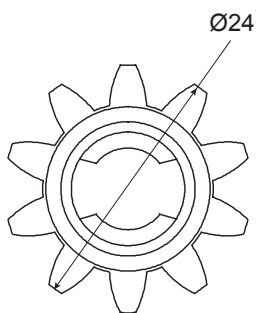
Standard thumbturn

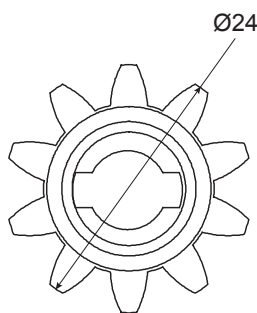## Cogwheels (diameter in mm)
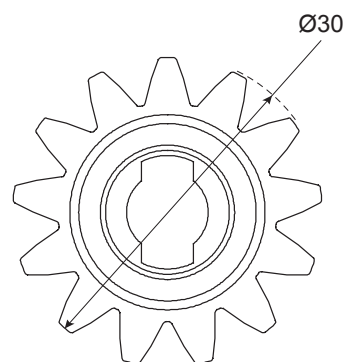
Ø24

Ø24

Ø24

Ø30

E
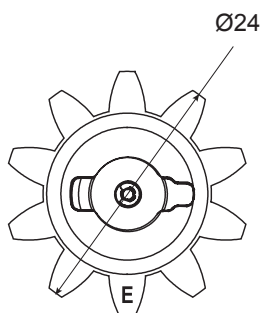
Z=10
m=2

P/N 82600280

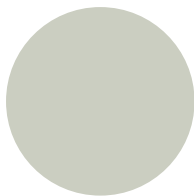Z=10
m=2

P/N 80000461

Z=10
m=2

P/N 80001081

Z=13
m=2

P/N 89100011

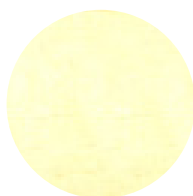Cylinders
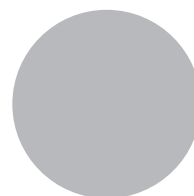
Cylinder Finishes

Standard finishes

Nickel Satin (NST)

Electroplated Brass (EB/CB)
US4
BHMA606

Nickel Chrome Matt (NCM)
US26D
BHMA626

Shiny Brass (SB)
US3
BHMA605

Nickel Chrome (NC)
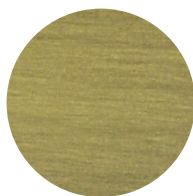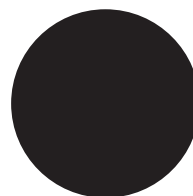US26
BHMA625

Special finishes

Dark (10B)
US10B
BHMA613

Antique Brass (ABP)
US5
BHMA609
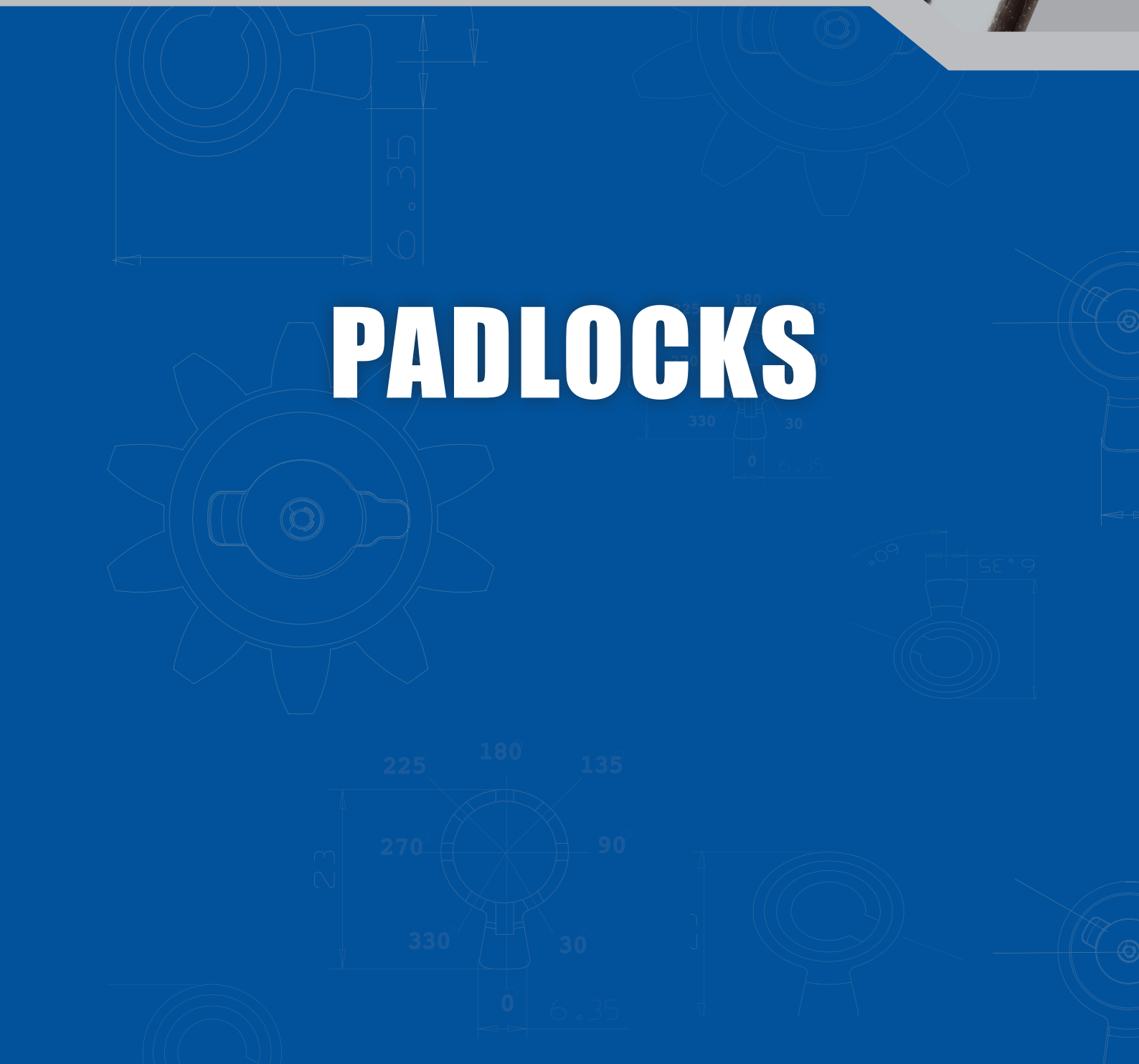
Black
US19
BHMA631

SBH

PVD

Antique Bronze (ABZ)

Notes:
• The colors above are for reference only and can vary from the original.
• Certain finishes are available on particular products only.
• Delivery times may vary according to type of finish.

www.mul-t-lock.com

MUL-T-LOCK®

PADLOCKS

NE-Series Padlock High Security

Application
High Security padlock, for general use.

Operation
The shackle is locked by a double ball bearing mechanism. Rotate key 90˚ to unlock

Materials
Body: steel
Shackle: hardened boron alloy steel

Finish
Black electrophoretic

Additional features
• Key retaining
• Drainage holes prevent freezing

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system. Pick and drill resistant for High Security needs.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• 7x7, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed
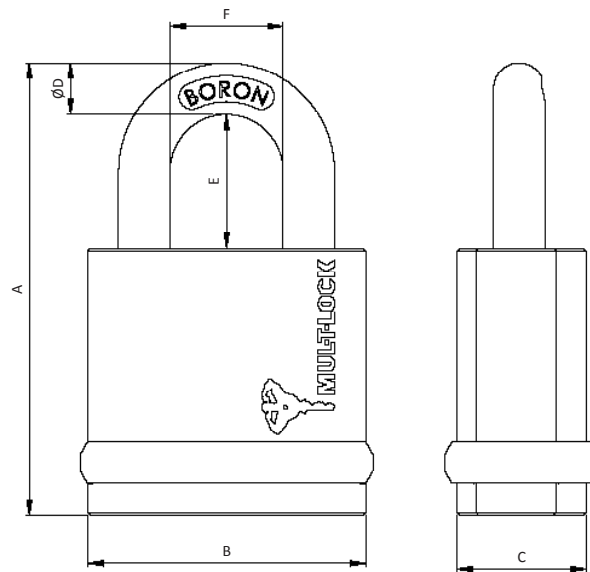
Standards
EN12320

Model		Body			Shackle			Standard Grade
		A	B	C	D	E	F	
NE8G	mm	87	54	25	8	27	24	3
	Inch	3.42	2.12	1	0.31	1.06	0.94	
NE10G	mm	88	54	25	10	26	22	3
	Inch	3.46	2.12	1	0.39	1.02	0.86	

www.mul-t-lock.com

NE-Series Padlock
High Security

Application
High Security padlock, for general use.

Operation
The shackle is locked by a double ball bearing mechanism. Rotate key 60˚ to unlock.

Materials
Body: case hardened steel
Shackle: hardened boron alloy steel

Finish
Black electrophoretic

Additional features
• Key retaining
• Drilling protection
• Protective shutter prevents dust contamination
• Drainage holes prevent freezing

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system. Pick and drill resistant for High Security needs.
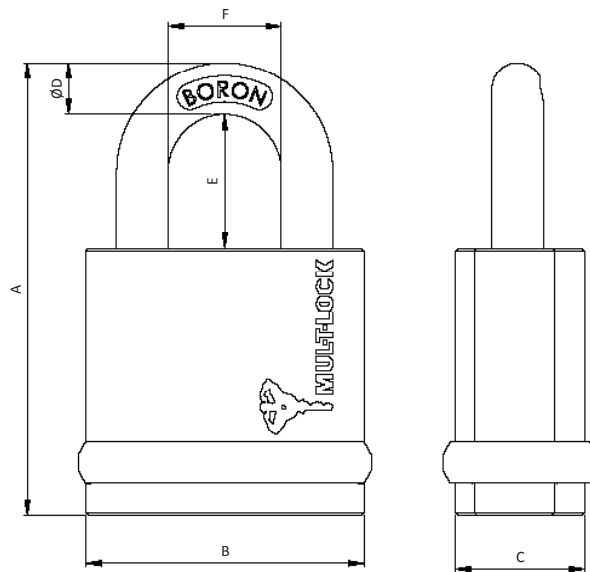
Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed

Standards
EN12320

Model		Body			Shackle			Standard Grade
		A	B	C	D	E	F	
NE10L	mm	95	54	25	10	25	28	4
	Inch	3.74	2.12	1	0.39	1	1.10	
NE12L	mm	101	66	28	12	25	30	5
	Inch	3.97	2.60	1.10	0.47	1	1.18	
NE14L	mm	105	66	28	14	26	32	5
	Inch	4.13	2.60	1.10	0.55	1.02	1.26	

NE-Series Padlock
High Security

Application
High Security padlock for general use.

Operation
The shackle is locked by a double ball bearing mechanism. Rotate key 60˚ to unlock.

Materials
Body: case hardened steel
Shackle: hardened boron alloy steel

Finish
Black electrophoretic

Additional features
• Key retaining
• Drilling protection
• Protective shutter prevents dust contamination
• Drainage holes prevent freezing

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system. Pick and drill resistant for High Security needs.
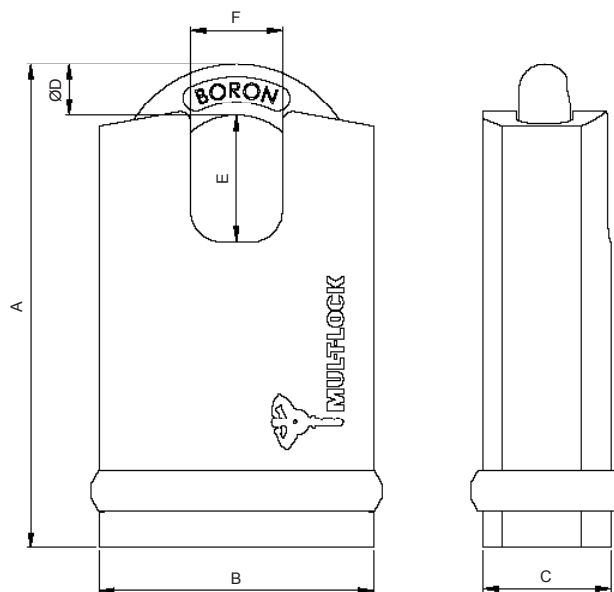
Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed

Standards
EN12320

Model		Body			Shackle			Standard Grade
		A	B	C	D	E	F	
NE10H	mm	95	54	25	10	25	18	4
	Inch	3.74	2.13	1	0.39	1	0.71	
NE12H	mm	101	66	28	12	25	21	5
	Inch	4	2.60	1.10	0.47	1	0.83	
NE14H	mm	105	66	28	14	26	21	6
	Inch	4.13	2.60	1.10	0.55	1.02	0.83	

Padlocks

MUL-T-LOCK®

NE-Series Padlock
High Security
Sliding Bolt - SBNE10

Application
High Security padlock for general use.

Operation
Rotate key 90° to unlock.

Materials
Body: steel
Bolt: hardened boron alloy steel
Finish: black electrophoretic

Additional features
• Non-key retaining
• Durable and corrosion-resistant

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system. Pick and drill resistant for High Security needs.
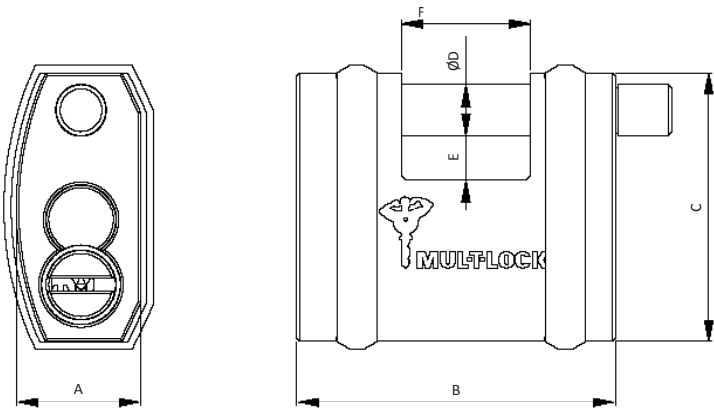
Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• 7x7, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed

Standards
EN12320

Model		Body			Bolt & Clearance			Standard
		A	B	C	D	E	F	Grade
SBNE10	mm	25	64	54	10	9	26	3
	Inch	1	2.51	2.12	0.39	0.35	1.02	

Padlocks

NE-Series Padlock
High Security
Sliding Bolt - SBNE12

Application
High Security padlock for general use.

Operation
Rotate key 90° to unlock.

Materials
Body: case hardened steel
Bolt: hardened boron alloy steel
Finish: black electrophoretic

Additional features
• Non-key retaining
• Drilling protection
• Protective shutter to prevent dust contamination
• Durable and corrosion-resistant

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system. Pick and drill resistant for High Security needs.
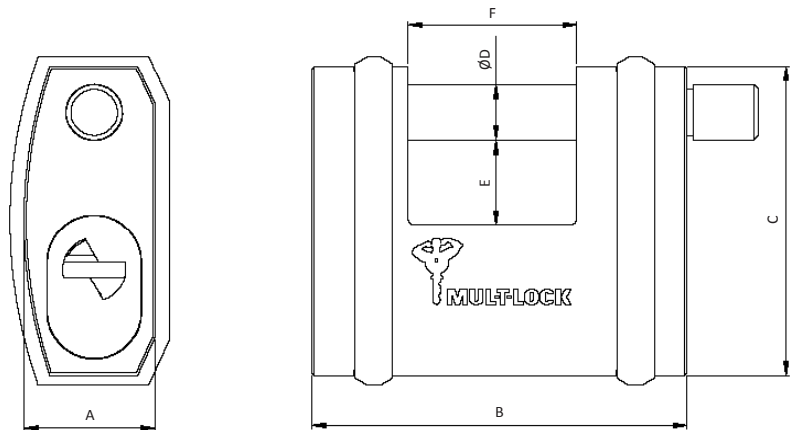
Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Interactive®+, MT5® platforms
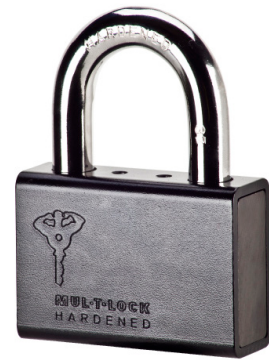• Keyed different, keyed alike
• Master keyed

Standards
EN12320

Model		Body			Bolt & Clearance			Standard Grade
		A	B	C	D	E	F	
SBNE12	mm	28	80	66	12	18	36	5
	Inch	1.10	3.15	2.60	0.47	0.71	1.42	

www.mul-t-lock.com

C-Series Padlock

Application
High Security padlock for general use.

Operation
Rotate key 55˚- 65˚ to unlock.

Options
• Removable shackle with non-retaining key
• Pop-open shackle with retaining key (key needed for closing)
• Variety of shackle clearances
• Black or nickel finish
• Added Mul-T-Lock® hasp
• Added shackle protector

Materials
Shell: hardened steel
Core: black plated solid brass
Shackle: hardened boron alloy steel.

Finish
• Black electrophoretic
• Chrome nickel bright

Additional features
• Protective shutter prevents dust contamination.
• Drainage holes prevent freezing.

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system. Pick and drill resistant for High Security needs.
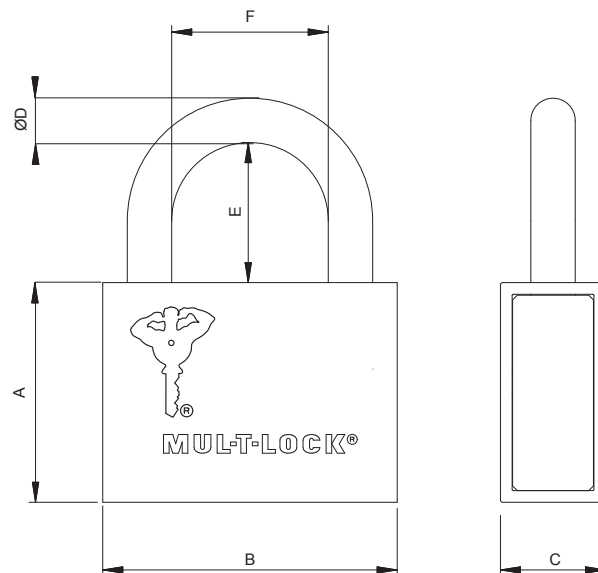
Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder Options
• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)

Standards
CEN, ISI technical specification 21

Model		Body			Shackle						Standard grade	Suitable hasp#
		A	B	C	D	E	E1	E2	E3	F	CEN	
*C-6	mm	47	50	22	6	--	22	50	102	24	--	--
	Inch	1.85	1.97	0.86	0.23	--	0.86	1.97	4.1	0.94		
*C-8	mm	47	50	22	7.9	--	22	50	102	22	--	--
	Inch	1.85	1.97	0.86	0.31	--	0.86	1.97	4.1	0.86		
C-10	mm	47	63	22	9.5	--	30	63	102	33	3	10
	Inch	1.85	2.5	0.86	0.37	--	1.2	2.5	4.1	1.29		
C-13	mm	51	73	25	12.7	25	37	58	102	33	4	13
	Inch	2	2.87	0.98	0.5	0.98	1.46	2.28	4.1	1.29		
C-16	mm	53	92	32	15.8	--	50	63	102	38	5	16
	Inch	2.1	3.6	1.26	0.62	--	1.97	2.5	4.1	1.5		

Note: Adding a hasp considerably upgrades the level of security.
*Can not be supplied as removable shackle

www.mul-t-lock.com

C-Series Padlock
SBC - Sliding Bolt

Application
High Security padlock for general use.

Operation
Rotate key 55˚ to unlock.
Spring-loaded bolt release.

Options
Black or nickel finish

Materials
Shell: hardened steel
Core: black plated solid brass
Bolt: hardened boron alloy steel

Additional features
Protective shutter prevents dust contamination.

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system. Pick and drill resistant for High Security needs.
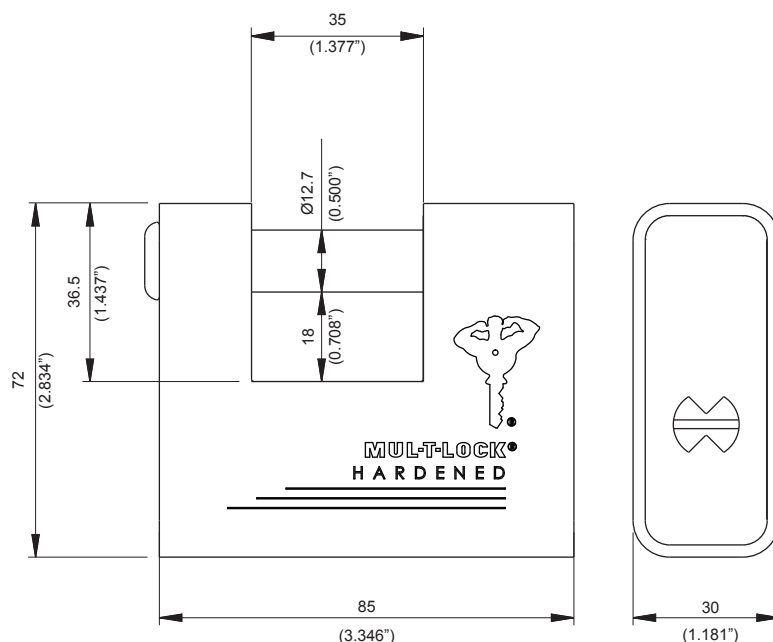
Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder Options
• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)

Standard
Security grade CEN 4

www.mul-t-lock.com

C-Series Padlock
Single Pin

Application
High Security padlock for general use.

Operation
Rotate key 55˚ to unlock.

Options
Variety of bolt (A) lengths
Black or nickel finish

Materials
Shell: hardened steel
Core: black plated solid brass Locking pin: hardened steel alloy

Additional features
• Protective shutter prevents dust contamination
• Drainage holes prevent freezing

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system. Pick and drill resistant for High Security needs.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)
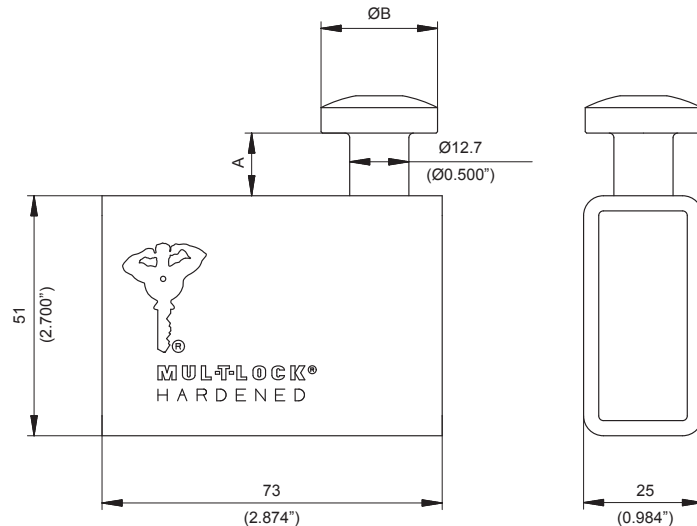
	A		B	
	mm	Inch	mm	Inch
L13	6	0.236	25	0.984
L10	10	0.393	25	0.984
L1	13	0.511	25	0.984
L8	13	0.511	30	1.181
L2	15	0.590	25	0.984
L3	21	0.826	25	0.984
L7	31	1.220	25	0.984
L4	35	1.377	25	0.984
L5	47	1.850	25	0.984
L6	80	3.149	25	0.984

Padlocks

G-Series Padlock 47, 55
All-purpose Security
Low Upper Body

Application
General use.

Operation
Rotate key 90˚ to unlock.

Options
Satin chrome finish

Materials
Body: Brass
Shackle: hardened boron alloy steel
Cylinder body, plug and pins: brass

Additional features
• High corrosion resistance
• Hammering resistance

Cylinder mechanism
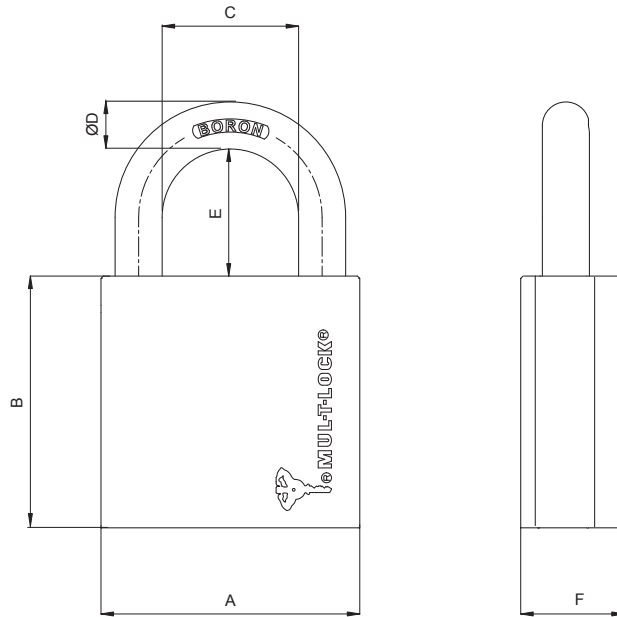Mul-T-Lock's unique high precision pin tumbler system. Pick and drill resistant for High Security needs.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification.

Cylinder Options
• 7x7, Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed

Standard
Security grade CEN 3

Padlock		A	B	C	D	E	F
G-47	mm	47	51	25	8	26.5	21
	Inch	1.850	2.007	0.984	0.314	1.043	0.826
G-55	mm	55	54	29	10	27	22
	Inch	2.165	2.125	1.141	0.393	1.062	0.866

MUL-T-LOCK®

www.mul-t-lock.com

G-Series Padlock 47P, 55P All-purpose Security
High Upper Body - Protected

Application
General use.

Operation
Rotate key 90˚ to unlock.

Options
Satin chrome finish.

Materials
Body: brass
Shackle: hardened boron alloy steel
Cylinder body, plug and pins: brass

Additional features
• High corrosion resistance
• Hammering resistance
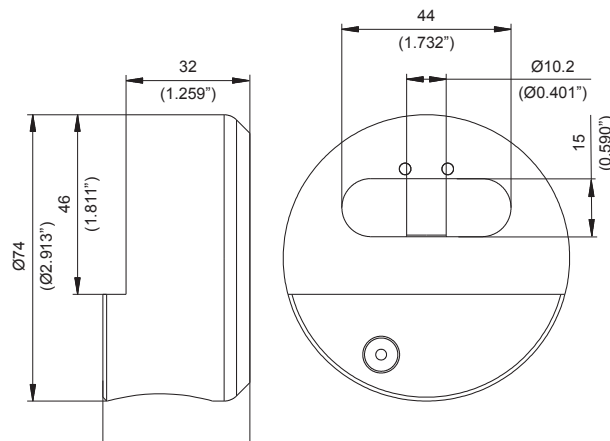
Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system. Pick and drill resistant for High Security needs.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification.

Cylinder options
• 7x7, Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed

Standard
Security grade CEN 3
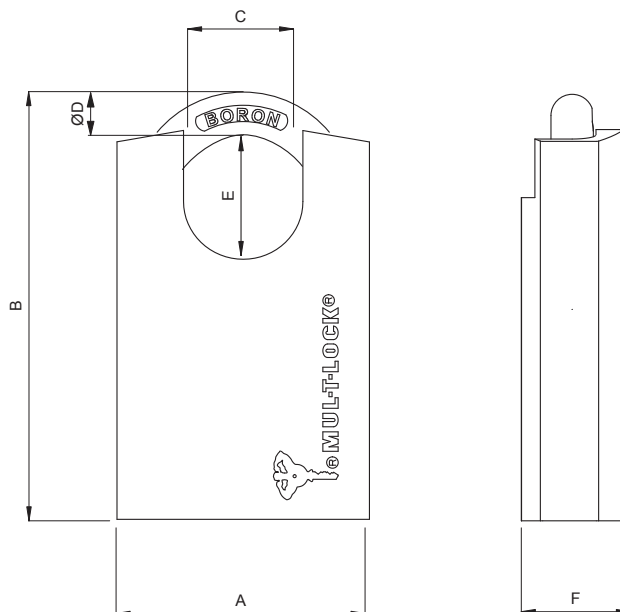
Padlock		A	B	C	D	E	F
G-47P	mm	47	74	20	8	22.5	21
	Inch	1.850	2.913	0.787	0.314	0.885	0.826
G-55P	mm	55	77	20	10	23	22
	Inch	2.165	3.031	0.787	0.393	0.905	0.866

MUL-T-LOCK®

Extreme Weather Plastic Cover
For G-47 & G-55 Padlocks

Application
Body and keyway protection for
G-47 and G-55 padlocks in extreme
conditions.
Shock, water and UV resistance.

Options
• Padlock supplied with cover
  already assembled.
• Plastic cover ordered separately,
  supplied in a box, blister or
  plastic bag.

Materials
Dual injection molded plastic

Additional feature
Water seals around shackle
legs provide additional weather
resistance.

Padlocks

MUL-T-LOCK®

www.mul-t-lock.com

Round Padlock
"Hockey-Puck" Type

Applications

High Security padlock for commercial and residential locking, as well as trucks, vans, trailers and other vehicles.

Operation

Rotate key 90˚ key to unlock, then withdraw the bolt.

Options

• Nickle chrome matt finish
• Special protective shock resistant hasp

Materials

Body and bolt: hardened steel

Cylinder mechanism

Mul-T-Lock's unique high precision pin tumbler system. Pick and drill resistant for High Security needs.

Keys

Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder Options

• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)

www.mul-t-lock.com

HaspLock

Applications
Robust locking solution combining padlock and hasp in one unit, to prevent loss of padlocks.

Options
- Key retaining
- Non-retaining (special order)
- Dust cover
- Drill protection
- Welded or bolted

Materials
Body: hardened steel investment casting
Bolt: 13 mm, hardened, non-removable

Cylinder Mechanism
Mul-T-Lock's unique high precision pin tumbler system. Pick and drill resistant for High Security needs.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder Options
- Classic, Interactive®+ platforms
- Keyed different, keyed alike
- Master keyed

Standard
Security grade CEN 6

.

www.mul-t-lock.com
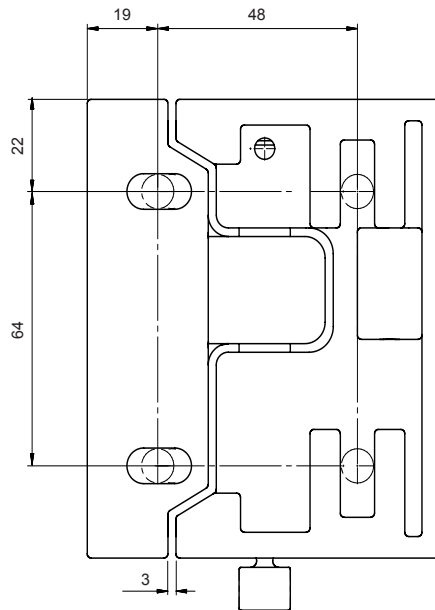
C-Series Accessories
Hasps & Shackle Protectors

Hasps

Application
Secure housing for Mul-T-Lock®
C-Series padlocks with removable
shackle. May be welded or bolted
to steel, wood or aluminium
structures.

Materials
High quality steel investment
casting.

Options
Three types to fit 10, 13
and 16 C-Series removable
shackle padlocks.
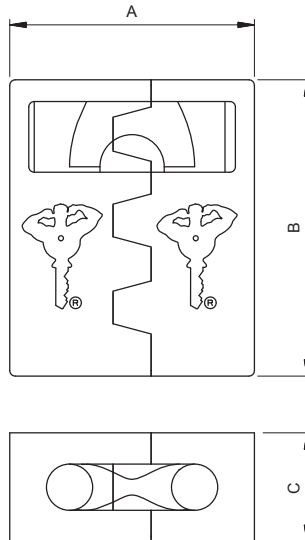
Hasps #		A	B	C
10	mm	80	95	40
	Inch	3.149	3.740	1.574
13	mm	90	109	40
	Inch	3.543	4.291	1.574
16	mm	110	116	48
	Inch	4.330	4.566	1.889

Shackle Protectors

Application
Additional protection for shackles
of Mul-T-Lock® C-Series padlocks.

Materials
High quality steel investment
casting.

Options
Three types to fit 10, 13
and 16 C-Series padlocks with
removable & pop-open shackle.
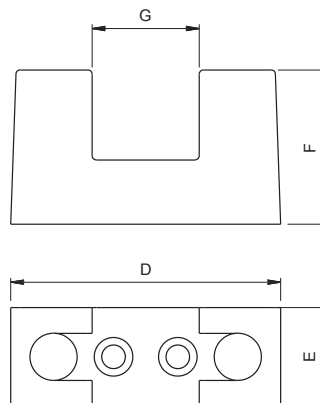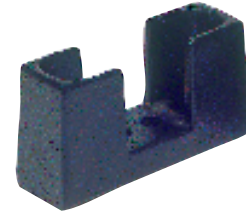
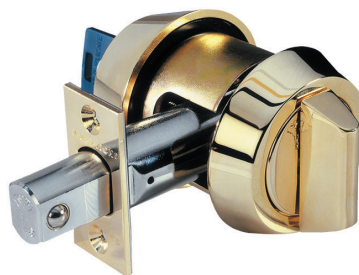| Padlock #		D	E	F	G
10	mm	63	23	36	25
	Inch	2.480	0.905	1.417	0.984
13	mm	73	25	40	25
	Inch	2.874	0.984	1.574	0.984
16	mm	92	32	50	30
	Inch	3.622	1.259	1.968	1.181

Padlocks

MUL-T-LOCK®

LOCKSETS

Hercular® Deadbolt

Double cylinder

**Single cylinder
with thumbturn**

Application
High Security deadbolt system for commercial and residential doors.

Operation
90˚ key rotation throws the bolt 1" toward the frame, interlocking two hardened ball bearings with the strike to increase jimmying resistance.

Materials
Ring and cylinder: solid brass
Bolt anti drilling ring: hardened steel
Strike: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel chrome matt, nickel chrome, PVD

Special finish
Antique brass, 10B

Lifetime finishes
US3, US26, US26D, US5A, US10B6

Additional features
• Suitable for two backsets, no need for different parts.
• Easy and friendly to install.
• Easy conversion between standards and drive-in.
• The changeable faceplate has an expanded angle for installation on bevelled doors.
• Supplied as standard with 1" (25 mm) throw.
• Optional as double or single cylinder.
• Thumbturn tail self-adjustable to door thickness.
• Option for captive key deadbolt
• Thumbturn can be set horizontally or vertically in locked position.
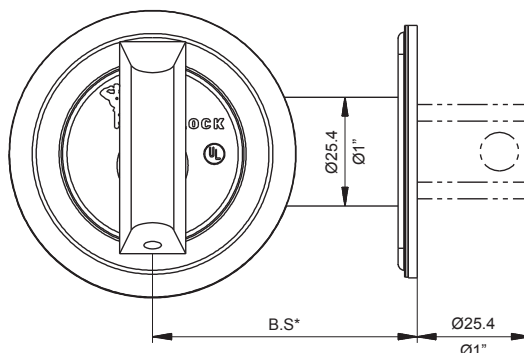
	B.S*	
Inch	2⅜	
mm	60	
Inch	2¾	
mm	70	

*Adjustable backset
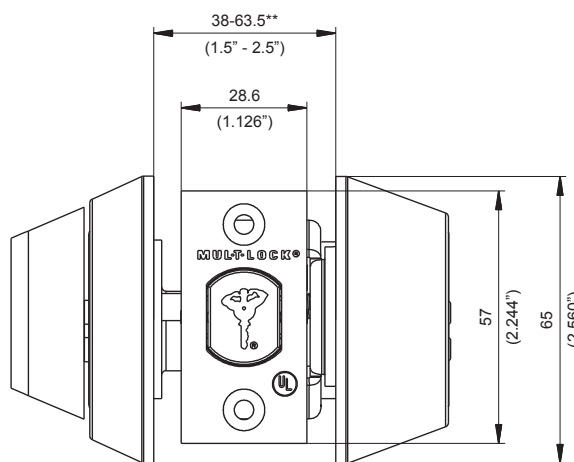
**Door thickness (spacers required for doors less than 38 mm thick)

MUL-T-LOCK®

www.mul-t-lock.com

Hercular® Deadbolt

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.
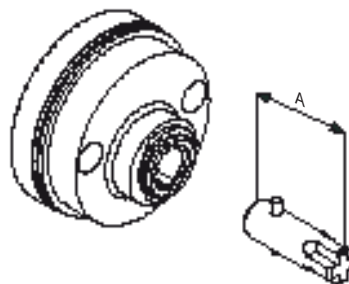
Cylinder options
• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)

Standards
• UL437 - pick and drill resistance
• UL - fire rated bolt
• Conforms to ANSI GRADE 1

Hercular thumbturn tails

Door thickness		A		Tail P/N
Inch	mm	Inch	mm	
Up to 2	Up to 50.8	0.92	23.5	22900271
2 - 2.5	50.8-63.5	1.22	31	22900275
2.5 - 3	63.5-76.2	1.5	38.5	22900276

Captive deadbolt

Can be altered by the user to function as a double or single cylinder deadbolt.

Locksets

www.mul-t-lock.com

MUL·T·LOCK®

Cronus
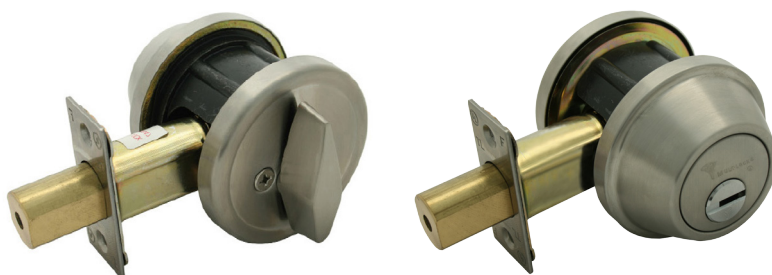
Application
Provide protection for residential and commercial doors.

Features
- Single cylinder (with thumbturn) or double cylinder
- Robust cylinder protector
- Steel core rosettes
- Stylish design
- Easy and convenient Installation using Mul-T-Lock® installation jig

Operation
High Security k.i.k. cylinder

Specifications
- Locking bolt reinforced with hardened steel insert
- Full 1" (25 mm) bolt throw
- Adjustable backset:
  2⅜" (60 mm) or 2¾" (70 mm)
- Door thickness:
  1⅜" (35 mm) to 1¾" (45 mm)

Standard finishes
PVD-Gold, polished stainless steel (US32), brushed stainless steel (US32D).

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
- Classic, Interactive®+ platforms
- Keyed different, keyed alike
- Master keyed

Top-Guard®

Application
Protective cover for rim cylinders on residential, commercial and institutional doors. Drill and attack resistant for High Security needs.

Options
Supplied with rim cylinder

Operation
360˚ rotation of operating key activates locking mechanism.

Materials
Escutcheon plates: hardened steel with decorative cover
Cylinder body and plug: brass
Pins: nickel silver and stainless steel

Standard finish
Nickel satin, shiny brass

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed

9.8 (0.385")
9 (0.354")
Ø8 (Ø0.314")
35-60 (1.375" - 2.375")
78 (3.070")
154 (6.063")

Locksets
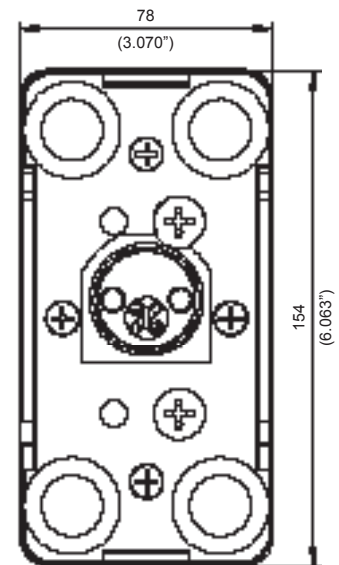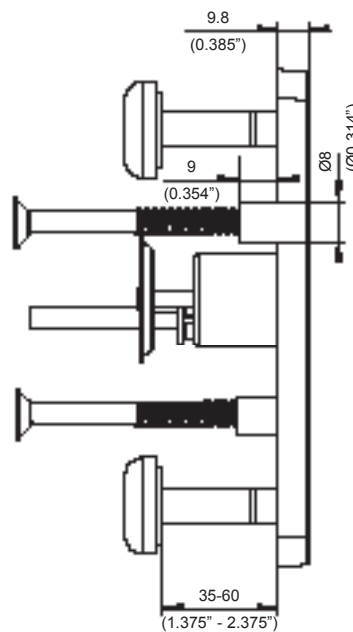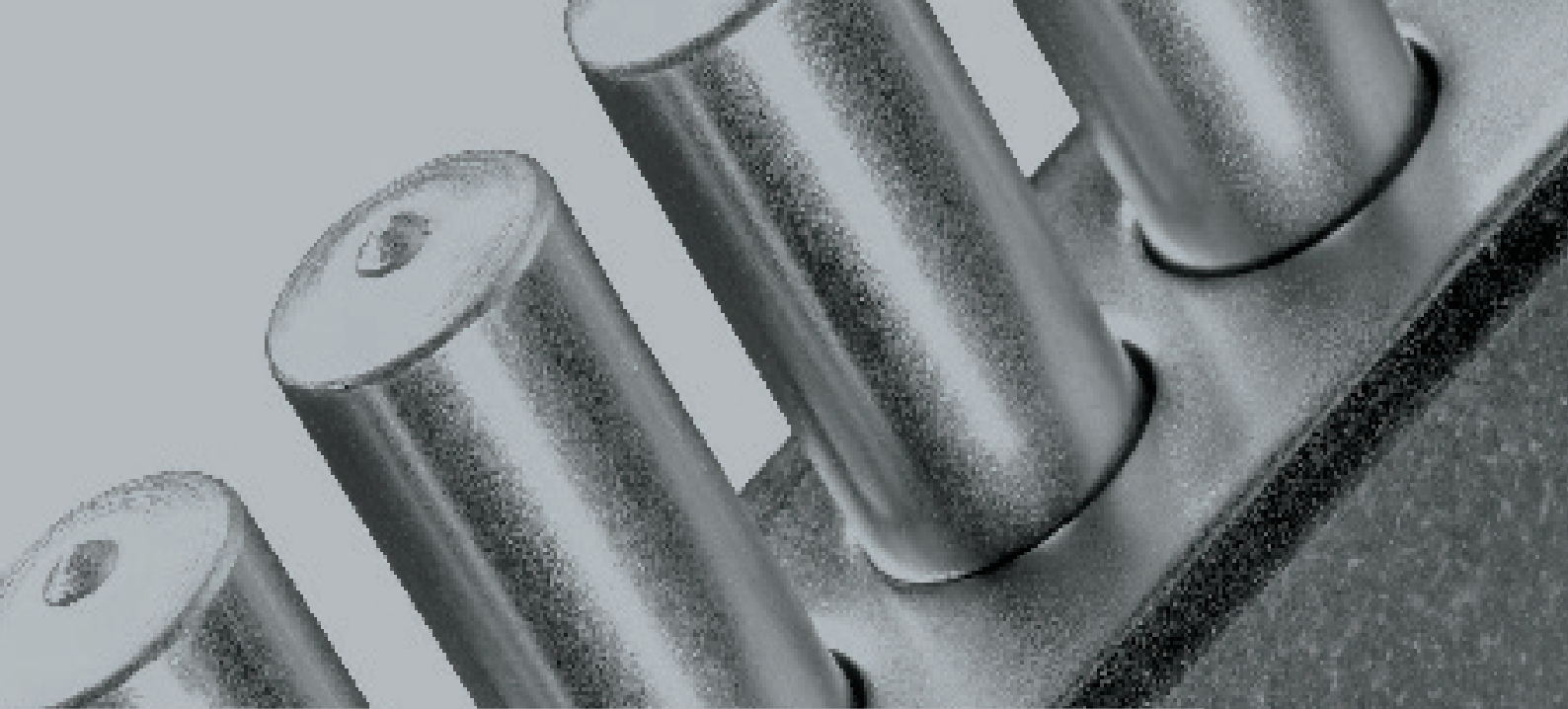
MUL-T-LOCK®

LOCK CASES

4-Way Locks 231, 232

Application
Installed inside wood or metal doors to provide 4-way multi-bolt locking.

Operation
360˚ key rotation for deadbolt action.

Options
• Left Hand model 231
• Right Hand model 232
• Hardware colors: white, brown, shiny brass, nickel chrome
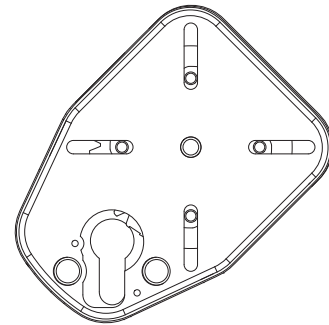
Materials
Case and mechanism: steel
Bolts: steel (optional hardened)
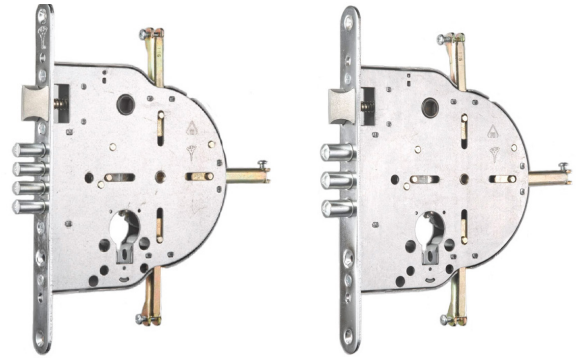Cylinder protector: hardened steel

231 Left

232 Right

Lock Cases
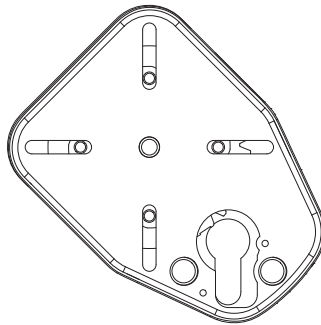
4-Way Locks 235, 265

Application
Installed inside wood or metal doors to provide 4-way multi-bolt locking.

Operation
- 360˚ key rotation for deadbolt action
- Additional travel for latch action
- Left- or right-hand applications

Options
- Standard backset: 65 mm
- Special order backsets: 75 & 85 mm
- Hardware colors: white, brown, shiny brass, nickel chrome, gold
- Can be assembled with SH300 High Security hardware
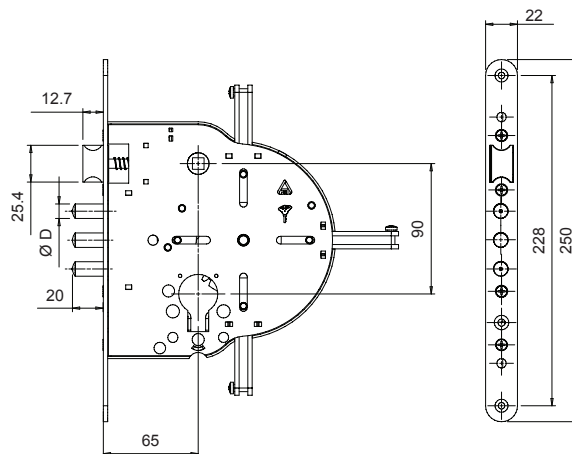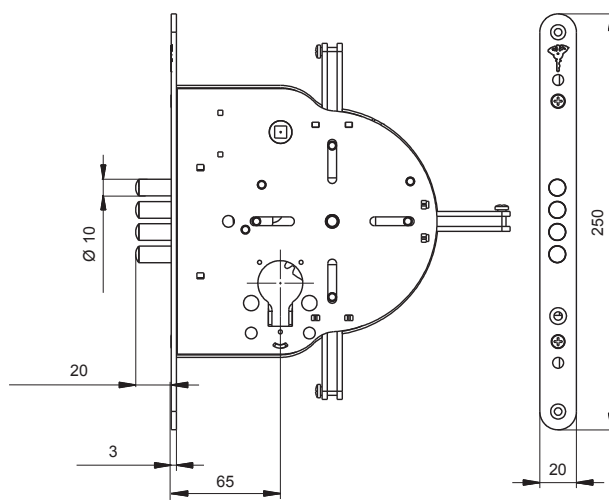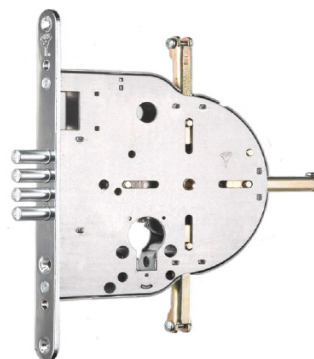- Model 235 available with ØD = 12.7 mm

Materials
Case and mechanism: steel
Bolts: steel (optional hardened)

Standards
- ISI technical specification 196
- EN12209

Model 235 multipoint lock operating 6 bolts

Model 265 multipoint lock operating 7 bolts
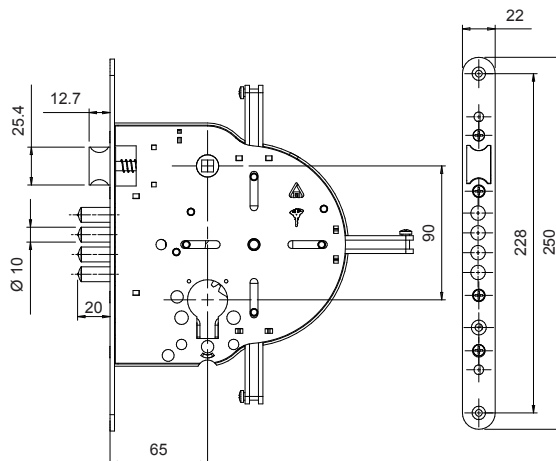
Standard backset 65 mm

Other backsets available only with Ø10 mm bolts

Optional 8" front band to fit American hollow core metal doors

Lock Cases

4-Way Lock 250

Application
Installed inside wood or metal doors to provide 4-way multi-bolt locking.

Operation
360˚ key rotation for deadbolt action.

Options
- Standard backset: 65 mm
- Special order backsets: 75 & 85 mm
- Hardware colors: white, brown, shiny brass, nickel chrome, gold
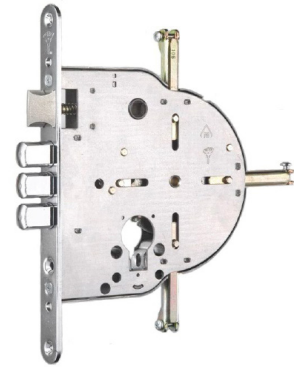- Can be assembled with SH300 High Security hardware

Materials
Case and mechanism: steel
Bolts: steel (optional hardened)

www.mul-t-lock.com

Lock Cases

MUL-T-LOCK®

4-Way Lock 603

Application
Installed inside wood or metal doors to provide 4-way multi-bolt locking.

Operation
- 360˚ key rotation for deadbolt action
- Additional travel for latch action
- Left- or right-hand application

Options
- Hardware colors: white, brown, shiny brass, nickel chrome, gold
- Fixed outside handle

Materials
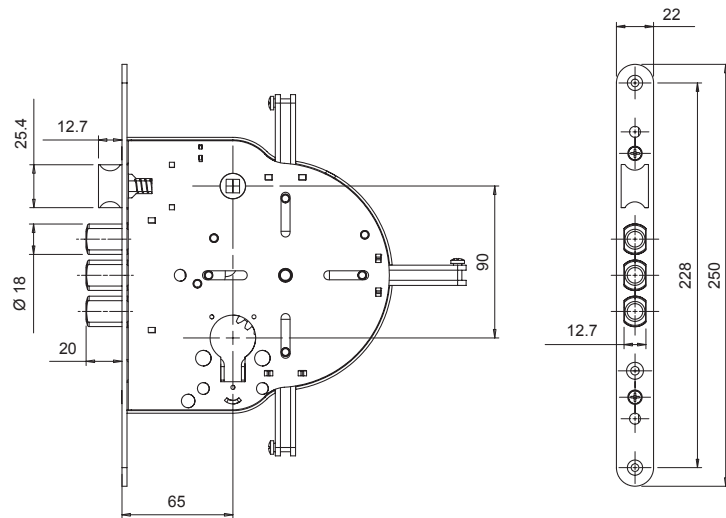Case and mechanism: steel
Bolts: steel (optional hardened)
Cylinder protector: hardened steel

Additional feature
Patented 18 mm Double D shaped bolts allow installation in narrow frames, and enable use of front plate (22 mm width) to fit regular steel door types.

Standards
- ISI technical specification 196
- EN12209

www.mul-t-lock.com

MPL Series

Application
Installed inside wood or metal doors to provide 3-way multi-bolt locking

Operation
- 360˚/720˚ key rotation for deadbolt action
- Additional travel for latch action
- Left- or right-hand application

Options
- SH300 High Security hardware
- MPL210 - central lock case for steel door
- MPL211 - central lock case for wooden door

Materials
Case and mechanism: steel
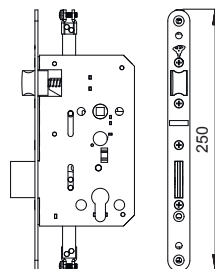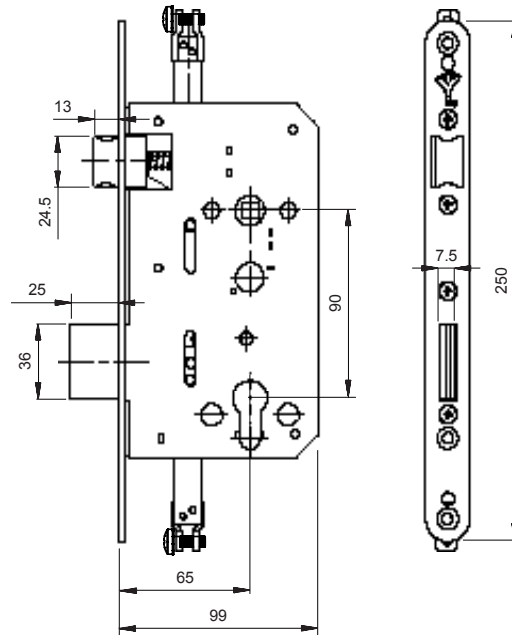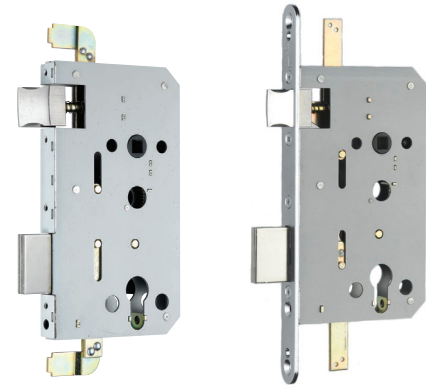Bolts: steel
Cylinder protector: hardened steel

Additional features
- Lock case size 99 mm
- Square deadbolt
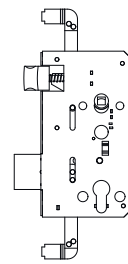- Triple round deadbolts for steel and wooden doors
- Standard hardware (CC=90 mm)
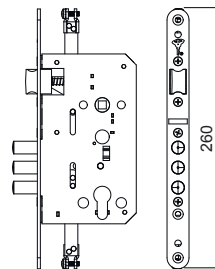
Standard
EN12209

Note: for maximum security it is recommended to use Mul-T-Lock® High Security escutcheons (EN grade 3 and 4)

MPL 210 - P/N 26900047

MPL 211 - P/N 26900048

MPL 212 - P/N 26900251
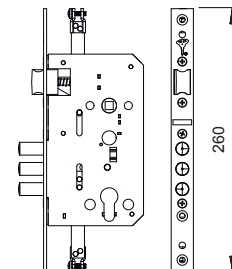
MPL 212 - P/N 26900254

Lock Cases

MUL-T-LOCK®

SPL Series

Application
Installed inside wood or metal doors to provide deadbolt locking.

Operation
- 360˚/720˚ key rotation for deadbolt action
- Additional travel for latch action
- Left- or right-hand application

Options
- EN grade 3 hardware
- EN grade 4 hardware
- Fixed or moving handle

Materials
Case and mechanism: steel
Bolts: steel
Cylinder protector: hardened steel

Additional features
- Square deadbolt
- Triple round deadbolts for steel and wooden doors
- Standard hardware (CC=90 mm)

Standard
EN12209

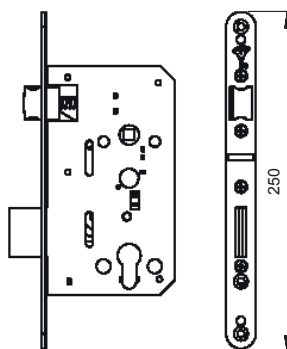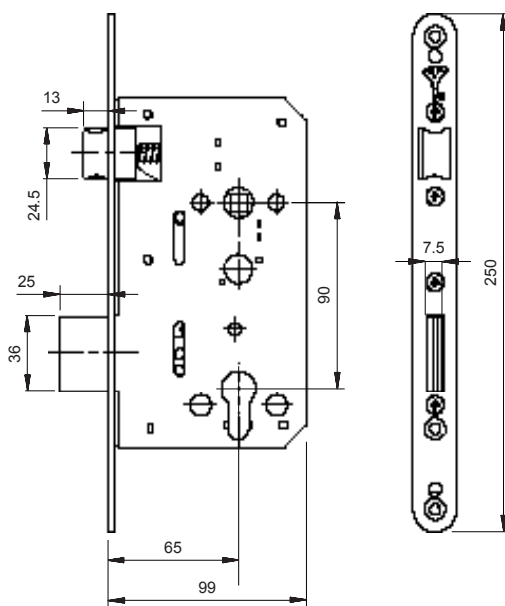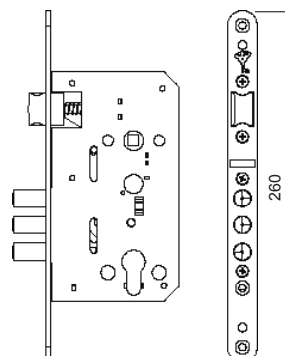**Note**: for maximum security it is recommended to use Mul-T-Lock® High Security escutcheons (EN grade 3 and 4)

SPLS - P/N 26900340

SPLR - P/N 26900350

Lock Cases

MPL415G Lock Set
Double Locking Multipoint Lock

Application
A heavy duty multipoint lock for steel doors.

Features
- 4 smart key-turns
- 41.5 mm bolt throw
- 15 locking bolts
- Geometrical locking
- Double cylinder locking
- Cogwheel central locking mechanism
- Dead-bolt latch when locked
- Operated by Euro profile cam cylinders
- Right- or Left-Hand installation

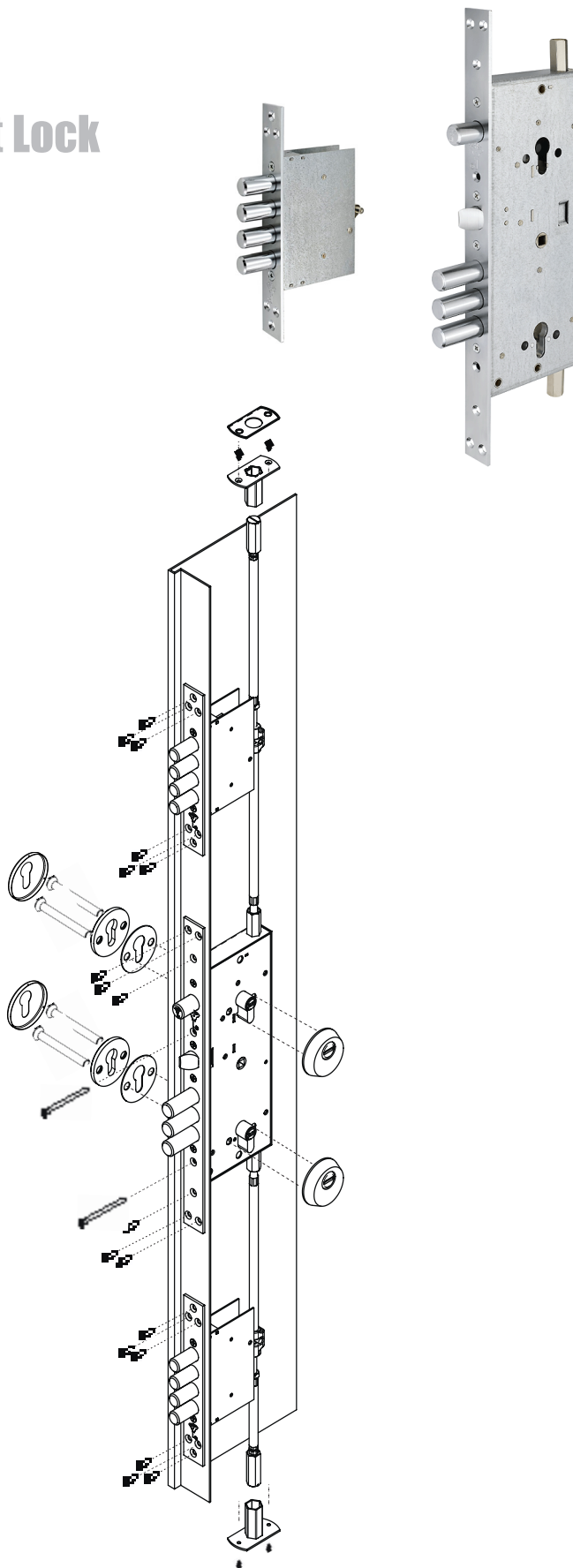### Option
Lock set includes:
- Central lock
- Side mechanisms
- Rods
- Security escutcheons
- Hardware
- Counter strikes
- Installation instructions

Specifications
- Handle operation
- Latch Ø20 mm
- Backseat: 65 mm.
- Bolt throw: 41.5 mm
- Minimum door height - 1950 mm
- Maximum door height - 2120 mm

Finishes
Bright brass, nickel satin, nickel chrome

Lock Cases

www.mul-t-lock.com
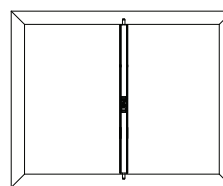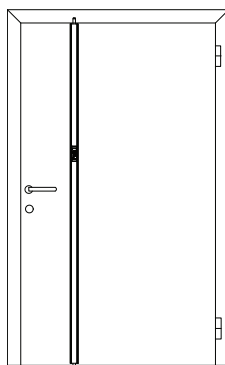
Mini-bars Lock
2-Point Surface Mount Locking bar

The Mul-T-Lock® Mini-bars lock series is a multipoint rim lock solution for reinforcing security in standard commercial doors and windows (metal or wood). It may be used as either a primary locking solution, or as additional locking system for reinforcing vulnerable areas. The Mini-bars may be installed either horizontally or vertically, on patio and garage doors, shutters, balconies, cabinets and more.

A gear-driven mechanism provides smooth operation, making the Mini-bars lock friendly to all users, including children and elderly people. Flexible keying options (master key, keyed alike, keyed different) are available, and any of Mul-T-Lock's High Security cylinder platforms may be incorporated into the product based on the customer's preferences.

Extra hardware, available upon request, includes cylinder protectors, thumbturn knobs and various accessories. The finish of all cylinders and handle accessories is compatible with the specified lock/profile color.

The Mini-bars lock is also available with durable coatings – in white, brown, and matt black, making it suitable for most environments.

Lock Cases
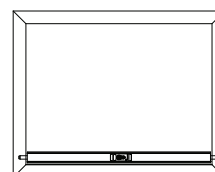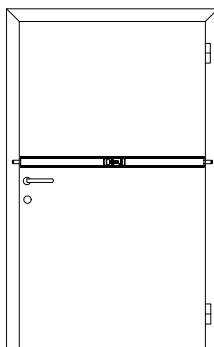
Vertical Mini-bars
Universal Application

Application

Rim lock with 2-point locking for universal applications, such as entrance doors, sliding doors, balconies and windows.

Operation

- Compatible with Mul-T-Lock® Euro profile cam cylinders. (Ordered separately)
- Thumbturn operation
- Half cylinder, key operation
- Double cylinder, both sides by key operation

Options

- Available lengths:
  - 1200 mm
  - 1500 mm
  - 2000 mm
  - 2250 mm
  - 2750 mm
  - 3000 mm
  - 4000 mm

Other lengths available by special order.

- Deadbolt throw 36 mm or 85 mm, adjustable
- Cylinder length for all door thicknesses up to 85 mm, according to the model.
- Backsets:
  - 500 mm
  - 1100 mm

Available Finishes

White, brown, matt black.
Special colors available on request.

For the full range of products and ordering information see Mul-T-Lock® Italy Catalogue

Cylinder for lock operation

L - length
E - backset

www.mul-t-lock.com

Vertical Mini-bars EMB Series
Window Application

Application
Rim lock with 2-point locking for window applications.

Operation
Compatible with Mul-T-Lock®
Euro profile cam cylinder (ordered separately).

- Thumbturn operation
- Half cylinder, key operation
- Double cylinder, both sides by key operation

Options
- Available lengths:
  - 800 mm
  - 1000 mm
  - 1200 mm
  - 1500 mm
  - 2000 mm
  - 2250 mm

Other lengths available by special order.

- Deadbolt throw 36 mm or 85 mm, adjustable
- Cylinder length for all door thicknesses up to 85 mm, according to the model.
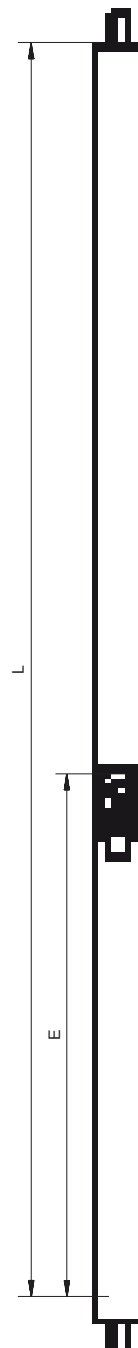- Backsets:
  - 300 mm
  - 900 mm

Available Finishes
White, brown, matt black.
Special colors available on request.

For the full range of products and ordering information see Mul-T-Lock® Italy Catalogue

Original window handle passes through the lock mechanism

Cylinder for lock operation

L - length
E - backset
H - handle height

www.mul-t-lock.com

Vertical Mini-bars EMC Series
Handle Driven

Application
Rim lock with 2-point locking for windows and entrance doors

Operation
- Compatible with Mul-T-Lock's Euro profile cam cylinders. (Ordered separately)
- Tumbturn operation
- Half cylinder, key operation
- Double cylinder, both sides by key operation

Options
- Available lengths:
  - 2000 mm
  - 2250 mm
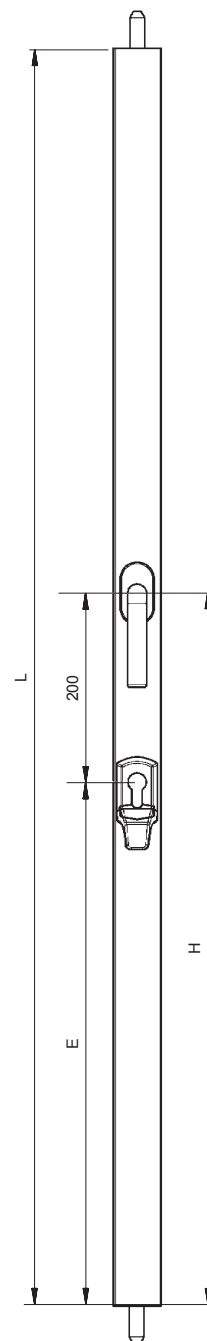 - 2500 mm

Other lengths available by special order.

- Deadbolt throw 36 mm or 85 mm, adjustable
- Cylinder length for all door thicknesses up to 85 mm, according to the model.
- Key backset:
  - 1400 mm
- Different axle bases

Available Finishes
White, brown, matt black
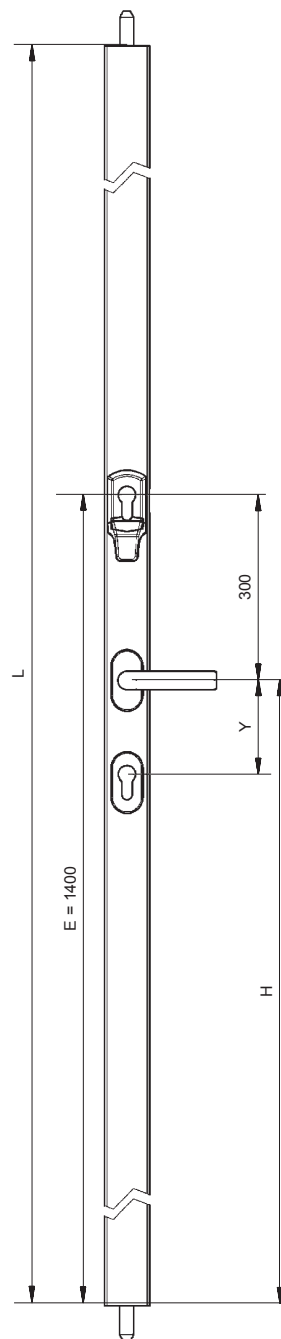Special colors available on request.

For the full range of products and ordering information see Mul-T-Lock® Italy Catalogue

Cylinder for lock operation

Original window handle passes through the lock mechanism

Original door cylinder passes through the lock mechanism

L - length
E - backset
H - handle height
Y - handle axle base

Lock Cases

MUL-T-LOCK®

Vertical Mini-bars EMD Series
Handle Driven (No Cylinder Locking)

Application

Surface mounted rim lock with 2-point locking for windows.

Operation

Turning handle 180° to operates both deadbolts.

Options

• Available lengths:
  • 1200 mm
  • 1500 mm
  • 2000 mm
  • 2250 mm
  • 2500 mm
  • 2750 mm
  • 3000 mm

Other lengths available by special order.

• Deadbolt
  • Ø14 mm
  • 28 mm Throw
• backsets:
  • 500 mm
  • 1100 mm
• Left- or right-hand operation

Available Finishes

Anodized, white, brown, matt black Special colors available on request.

For the full range of products and ordering information see Mul-T-Lock® Italy Catalogue

Original window handle passes through the lock mechanism

www.mul-t-lock.com
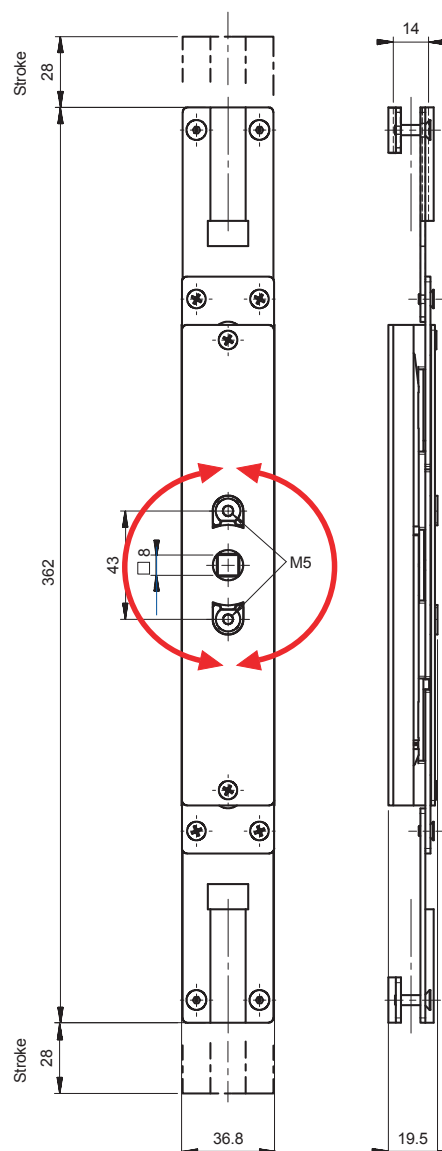
Horizontal Mini-bars 512, 513 Series

Application
Horizontal rim lock with 2-point locking.

Operation
- Compatible with Mul-T-Lock's Euro profile cam cylinders. (Ordered separately)
- This product is more suitable for use with double profile cylinder. When used with a single side (Thumb turn), deadlocking is not functioning.
- Deadbolt throw 80 mm

Options
- Available lengths:
  For central backset:
  - 2000 mm
  - 2250 mm
  - 2500 mm
  - 2750 mm
  - 3000 mm
  - 4000 mm
  For 300 mm backset:
  - 800 mm
  - 900 mm
  - 1000 mm
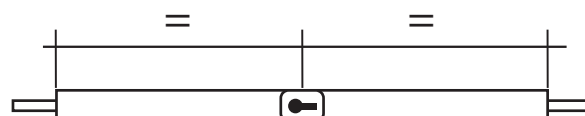 - 1100 mm
  - 1200 mm

Available Finishes
White, brown, matt black.
Special colors available on request.

For the full range of products and ordering information see Mul-T-Lock® Italy Catalogue

512 series

Central backset

513 series

300 mm backset

Lock Cases

Lock Cases

Series		EME	EMB	EMC	EMD	512	513
Backset	300		●				●
	500	●			●		
	900		●				
	1100	●			●		
	1400			●			
	Central					●	
Length	800		●				●
	900						●
	1000		●				●
	1100						●
	1200	●	●		●		●
	1250						●
	1375						
	1500	●	●		●		
	2000	●	●	●	●	●	
	2250	●	●	●	●	●	
	2500	●		●	●	●	
	2750	●			●	●	
	3000	●			●	●	
	4000	●				●	
Color	Brown	●	●	●	●	●	●
	White	●	●	●	●	●	●
	Black	●	●	●	●	●	●
	Anodized				●		

MUL-T-LOCK®

www.mul-t-lock.com

Lock 700 Model
3-way Multipoint Rim Lock

Application
Heavy duty multipoint (3-way) rim lock with latch functionality. Suitable for 1.5 to 2.5 meter doors.
Right-Hand or Left-Hand installation.
Push or pull installation.

Operation
Equipped with Mul-T-Lock® cylinder.
360˚ key rotation for dead bolt action and additional travel for latch action. Latch is reversible for Left-Hand and Right-Hand.

Materials
Case, mechanism, covers and frame: steel.
Bolts: steel (optional hardened).
Cylinder protector: hardened steel.
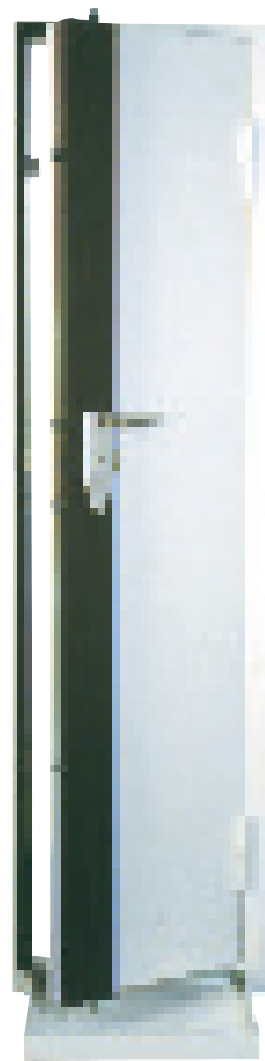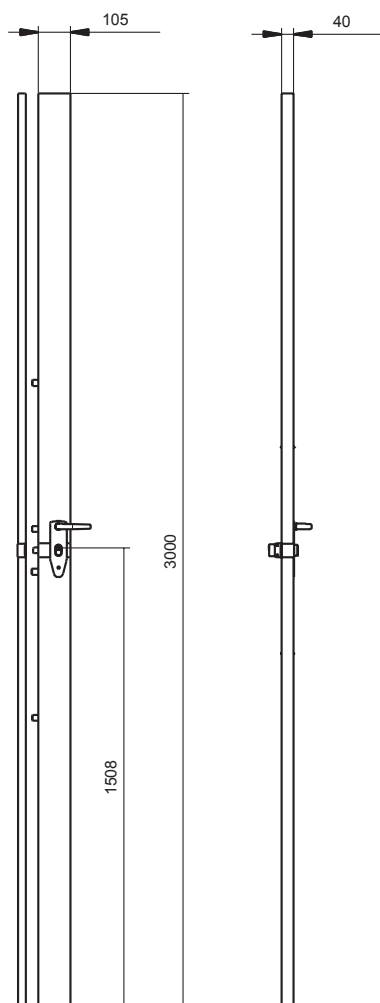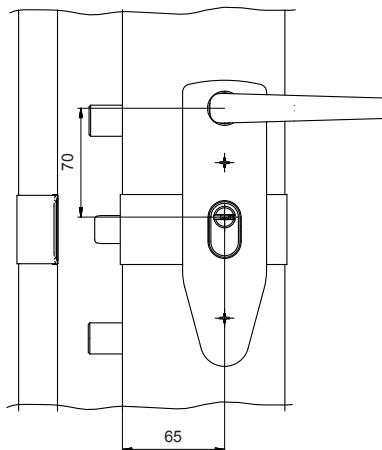
Lock Cases

Lock 700 Model
3-way Multipoint Rim Lock

Box base

Frame box

Bolt holder

long assembled bolt will be adjudted

Nut M8

quicklock washer will be disassembled in case of reversing the lock close with two new spare washers from the kit

Lock cover 1 will be adjusted

Frame cover 1

Latch stopper

Cover connector

Anti-drilling plug protector

Front plate

Handle bushing

door up to 2.5 m

Holder stopper

Lock base

Handle

Frame side cover connect

Frame cover 2

Internal cyl. protector

Frame base

Lock cover 2 will be adjusted

Floor plate

www.mul-t-lock.com

MATRIX
Armored Doors Lock

A series of heavy-duty multipoint locks for armored doors, featuring a silent, reliable gear-based mechanism, a patented double-bit key, and a combination SIM enabling an endless number of changeable combinations.

The lock combination can be changed endless number of times by performing 5 simple steps:

1. Rotate plate lock on inner side of door to OPEN position.
2. Remove the old combination SIM with a special extraction/insertion tool.
3. Insert a new combination SIM using the same extraction/insertion tool.
4. Rotate lock to CLOSE position. The lock is set to the new combination.
5. After performing the combination change process, destroy the old SIM and keys.

www.mul-t-lock.com

MUL-T-LOCK®

MATRIX
Armored Doors Lock

Function
High Security multipoint locking for armored doors

Features
- Latch functionality
- Patented double-bit, low-wear keys
- Single or double locking mechanism
- Euro profile cylinder
- Slave cylinder
- Right- or left-hand installation
- Limitless combination possibilities, enabled by replacing the combination SIM

Options
- Sealed bag containing one combination SIM
- 3 double-bit keys (length 90 mm)

Specifications
- Handle operation
- Latch Ø20 mm
- Backseat: 65 mm
- Bolt throw: 36 mm
- Service bolt stroke: 24 mm
- Lever stroke: 20 mm
- Bolt spacing: 28, 37 mm
- Bolt protrusion: 3, 13 mm
- 4 throws
- Variety of key lengths

For ordering information see Mul-T-Lock® Italy Catalogue

A - Bolt spacing - 28, 37 mm
S - Bolt protrusion - 3, 13 mm

www.mul-t-lock.com
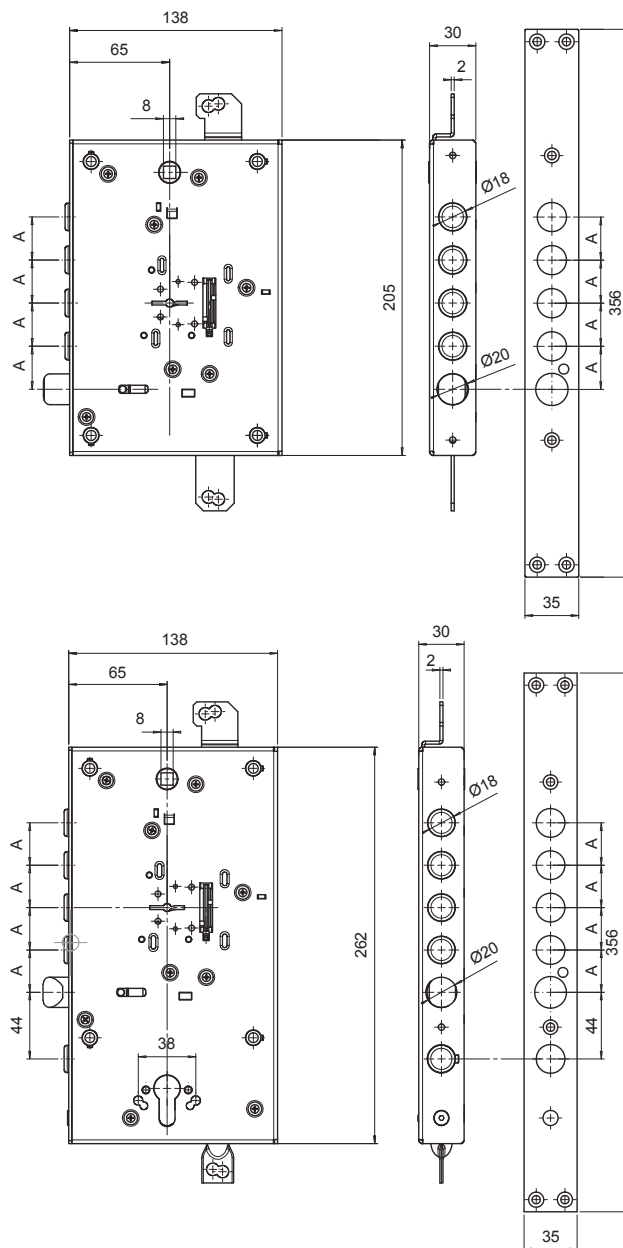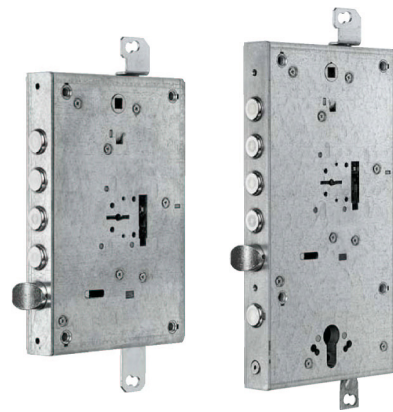
OMEGA PLUS
Armored Doors Lock

A series of heavy-duty multipoint locks for armored doors, featuring a gear-based mechanism and an effective security system that relies on a selection of special keys:

Standard set of keys

The standard Omega Plus lock is supplied with a sealed envelope, containing:

- 3 triple-bit foldable keys (length 73 mm), marked by red plastic key heads with green inserts
- 1 blue duplication card for the green-insert keys
- 1 triple-bit foldable key (length 73 mm) marked by a red plastic head with a yellow insert, and a new code – which, when used, invalidates the keys with the green insert
- 1 blue duplication card for the yellow-insert key
- A new code embossed on the yellow-insert duplication card, enabling the production of an additional key – marked by a red insert – which, when used, invalidates the yellow-insert key
- 3 double-bit keys (length 90 mm)

Installation key

Available on request for all Omega models, the installation key, marked by a black key head, enables the installation of armored doors without disclosing the master key code. Once installation is complete, the installation key is invalidated by inserting the standard owner's key. Then the installation key destroyed.

Construction site key

The construction site key, marked by a black key head, enables access to all areas on a construction site during the building process. When a finished property is handed over to the owner, the pins inside the lock are removed, irreversibly disabling the site key. The owner then opens the sealed envelope containing his own standard property keys and duplication card, for maximum privacy and security.

www.mul-t-lock.com

OMEGA PLUS
Armored Doors Lock

Function
High Security multipoint locking for armored doors

Features
- Latch functionality
- Single or double locking mechanism
- Euro profile cylinder
- Right- or left-hand installation

Options
- 3 triple-bit foldable keys with green inserts
- 1 blue duplication card for the green-insert keys
- 1 triple-bit foldable key with a yellow insert, when used, invalidates the keys with the green insert
- 1 blue duplication card for the yellow-insert key
- Additional key – with red insert which, when used, invalidates the yellow-insert key

Additional features
- Latch functionality
- Double locking mechanism
- Euro profile cylinder
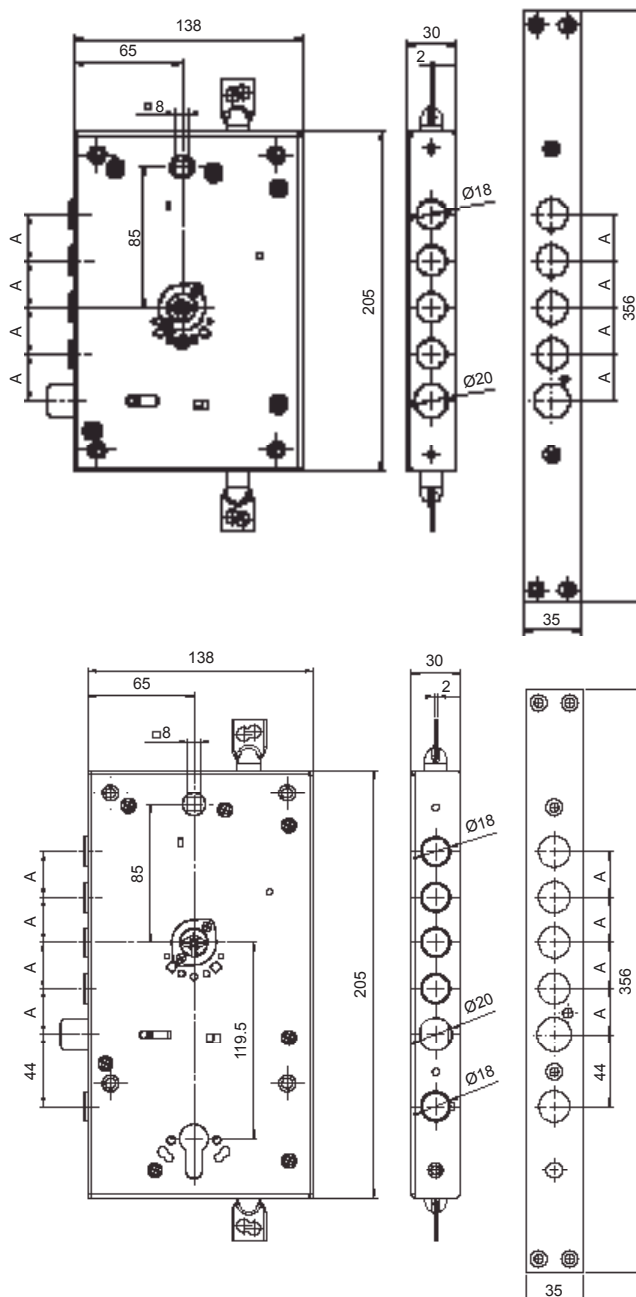- Right- or left-hand installation

Specifications
- Handle operation
- Latch Ø20 mm
- Backset: 65 mm
- Bolt stroke: 30 mm
- Lever stroke: 20 mm
- Bolts Ø18 mm
- 4 bolts for standard 28 mm bolt spacing
- 3 bolts for 37 mm bolt spacing
- Bolt protrusion: 3, 13 mm
- Variety of key lengths

For ordering information see Mul-T-Lock® Italy Catalogue

A - Bolt spacing 28, 37 mm
S - Bolt protrusion 3, 13 mm

www.mul-t-lock.com

Lock Cases

Single Locking Mechanism
For Armored Doors

Application
A heavy duty multipoint lock for armored doors

Features
- 3 point lock
- Gear-based mechanism
- Latch functionality
- Operated by Euro profile cylinder
- Right- or Left-Hand installation
- When lock is closed, latch can not be withdrawn using the handle
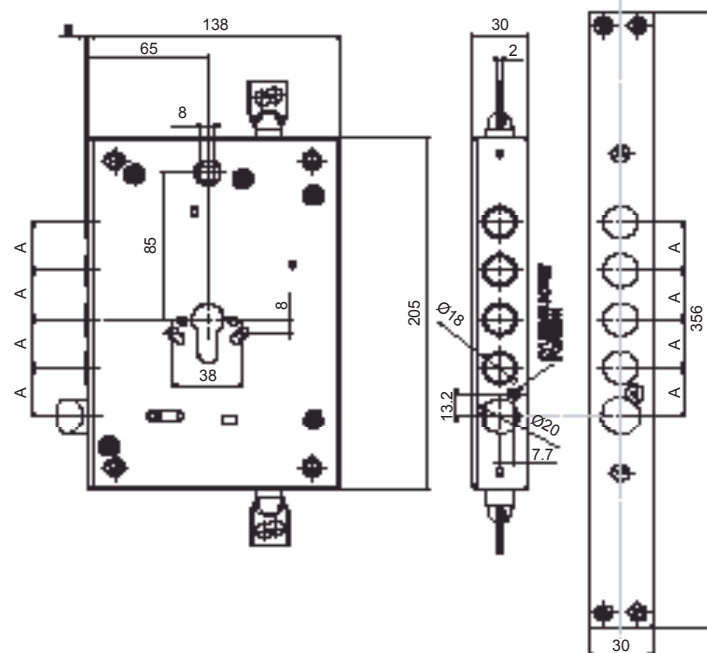
Options
- 4 bolts (Ø18 mm) for standard 28 mm bolt spacing
- 3 bolts for 37 mm bolt spacing

Specifications
- Handle operation
- Latch Ø20 mm
- Backseat: 65 mm
- Bolt throw: 30 mm
- Lever stroke: 20 mm
- Bolt protrusion: 3,13 mm
- Variety of key lengths

For ordering information see Mul-T-Lock® Italy catalogue

A - Bolt spacing (28, 37 mm)
B - Bolt protrusion (03, 13 mm)

Double Locking Mechanism

For Armored Doors

Application

A heavy duty multipoint lock for armored doors

Features

- 3 point lock
- Gear-based mechanism
- Latch functionality
- Operated by Euro profile cylinders
- Right- or Left-Hand installation
- When lock is closed, latch can not be withdrawn using the handle

Options

- 4 bolts (Ø18 mm) for standard 28 mm bolt spacing
- 3 bolts for 37 mm bolt spacing

Specifications

- Handle operation
- Latch Ø20 mm
- Backseat: 65 mm.
- Bolt throw: 30 mm
- Lever stroke: 20 mm.
- Bolt protrusion: 3, 13 mm
- Variety of key lengths.

For ordering information see Mul-T-Lock® Italy catalogue

A - Bolt spacing (28, 37 mm)
B - Bolt protrusion (3, 13 mm)

Lock Cases
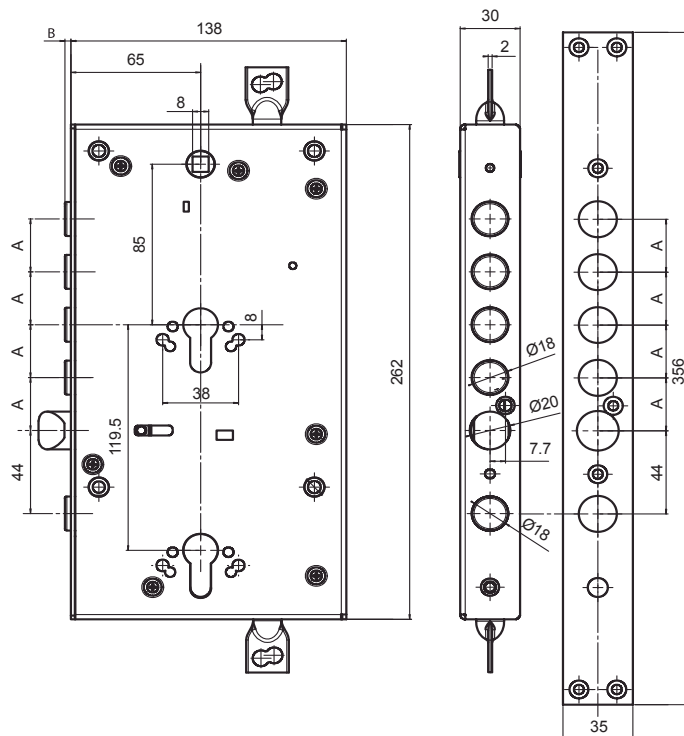
Lock 354M

Application
Suitable for wood and steel doors.
Provides single bolt locking.
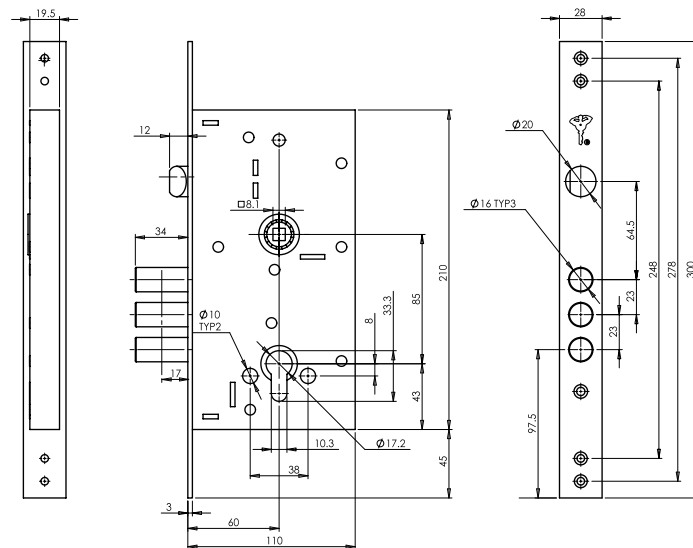
Features
- Backset: 60 mm
- Triple round deadbolts: Ø16 mm
- Latch: Ø20 mm

Operation
- Compatible with Mul-T-Lock®
  Euro profile cam cylinders
- 360˚/720˚ key rotation for bolt
  action
- Bolt throw:
  - 17 mm for 360˚ key turn
  - 34 mm for 720˚ key turn
- Additional travel for latch action
- Left- or right-hand applications
- Handle spindle with ball bearing
  mechanism for high traffic doors

Materials
- Case: galvanized steel
- Mechanism: steel
- Bolts and front plate: chrome
  nickel plated steel

www.mul-t-lock.com

Lock Cases

30

Lock 257

Application
Security lever lock for wood and steel doors.
Preferred installation as additional lock for reinforcing security level.

Features
- Backset: 60 mm
- Triple round deadbolts: Ø16 mm
- Keyway protective plate hinders drill attacks

Operation
- Double key turn for bolt action
- Left- or right-hand applications
- Bolt throw:
  - 1 key turn: 18 mm
  - 2 key turns: 36 mm

Options
- Keys:
  - 3 double bit keys
  - 5 double bit keys
- Front plate plating:
  - Chrome nickel
  - Satin nickel
  - Shiny brass

Materials
- Case: galvanized steel
- Mechanism: steel
- Bolts: chrome nickel plated steel
- Front plate: see options
- Keys: chrome nickel plated brass

Protective plate

www.mul-t-lock.com
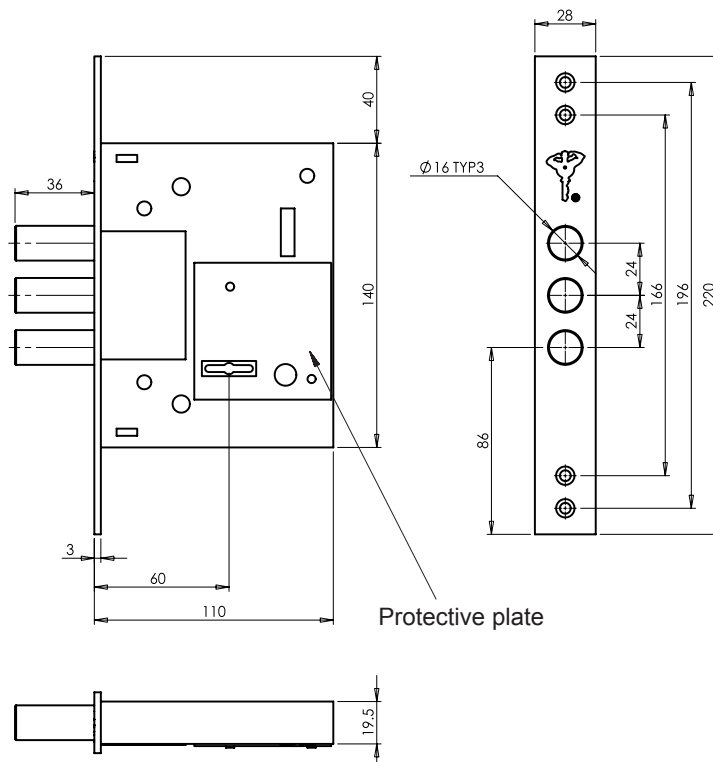
SH300 Hardware

Application
Compatible with Mul-T-Lock 4-way locks and MPL210 lock series.

Options
- Complete set
- Fixed or moving handle
- Suitable for door thickness of 45-70 mm
- Interchangeable CC (center to center) distance – 85/90 mm
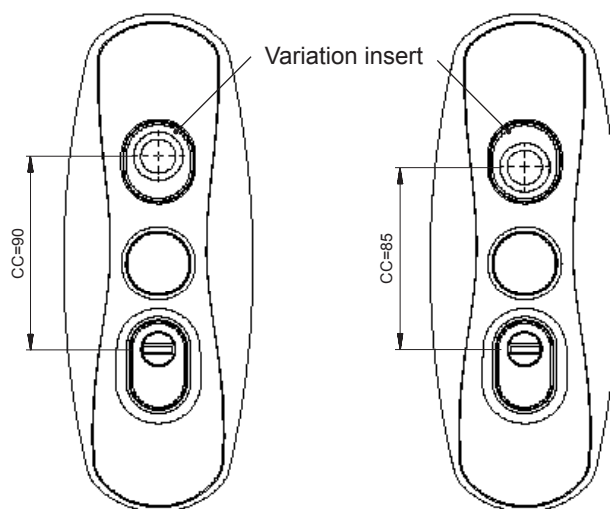
Materials
Cylinder protector: stainless steel. Body with hardened inserts for high drilling resistance.
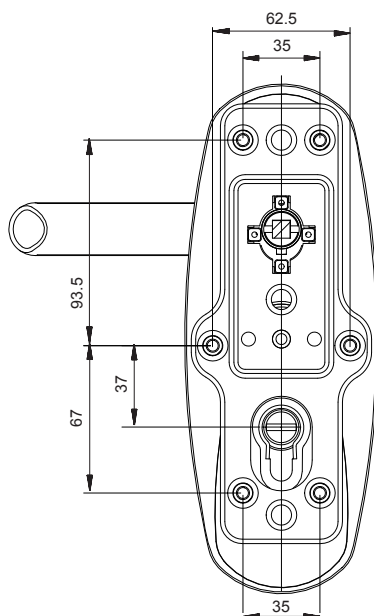Base plate: carbon steel with high corrosion resistance plating.
Cover plates: brass.

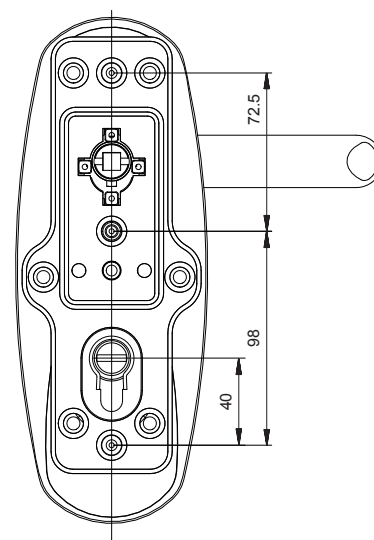## Available finishes
Gold - PVD, nickel chrome, nickel satin.

Variation insert

CC=90   CC=85

Variation insert is adjustable for both 85 or 90 mm CC.

62.5
35
93.5
67
37
35

Template for 4-way lock

72.5
98
40

Template for MPL210 series

Lock Cases

Euro Profile Cylinder
High Security Protector

Application
Compatible with all Euro profile cylinders.

Options
- Hardened steel body
- Drill resistant rotating disk
- M8 screws
- Suitable for door thickness 50-75 mm
- Each set contains screws of different lengths:
  - 4 (2 pairs) M8x65 for door thickness 50-55 mm
  - 20 (10 pairs) M8x75 for door thickness 60-65 mm
  - 4 (2 pairs) M8x85 for door thickness 70-75 mm

Available finishes
Bright chrome, satin chrome, bright brass, brushed nickel

Note: 10 pcs per box

15   50 - 75   5.5

Door thickness

Ø55   Ø56

M8 bolts x 2
DIN 965A

Footprint

Ø17.3

Ø8.2

8

33.5

38

Lock Cases

MUL-T-LOCK®

www.mul-t-lock.com
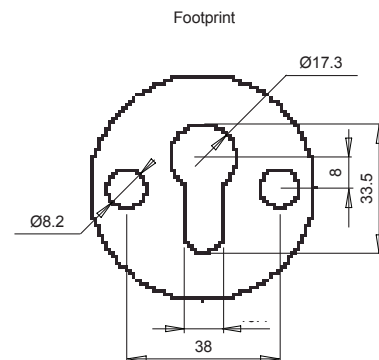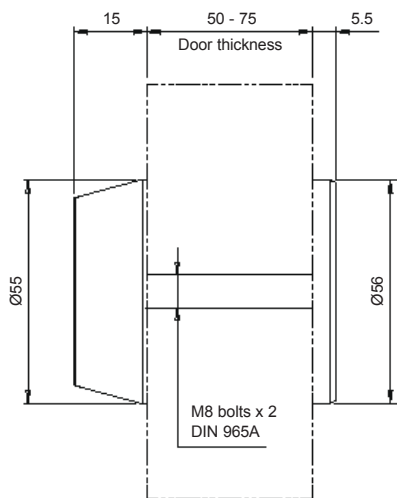
Euro Profile Cylinder Security Protector

Application
Compatible with all Euro profile cylinders.

Protection features
- Hardened steel anti-drill rotating disk
- Anti-pull protection
- Anti-twist protection

Structure & design
- M5 bolt-through
- Large diameter footprint - 54 mm
- All-weather durability
- Attractive design
- Fits variety of door widths
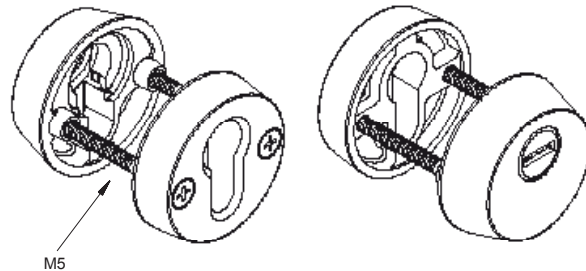
Available finishes
Chrome plated, electro brass, nickel satin

M5

14.5   36 - 60   17.5
Door thickness

Ø54   Ø54   38

INT.   EXT.

MUL-T-LOCK®

INDUSTRAIL LOCKS

Cam Lock
Ø19 mm (¾")

Applications
Mul-T-Lock® cam locks are available in various sizes, making them suitable for a wide range of applications: cabinets, drawers, parking meters, lockers, cash boxes, payphones etc.
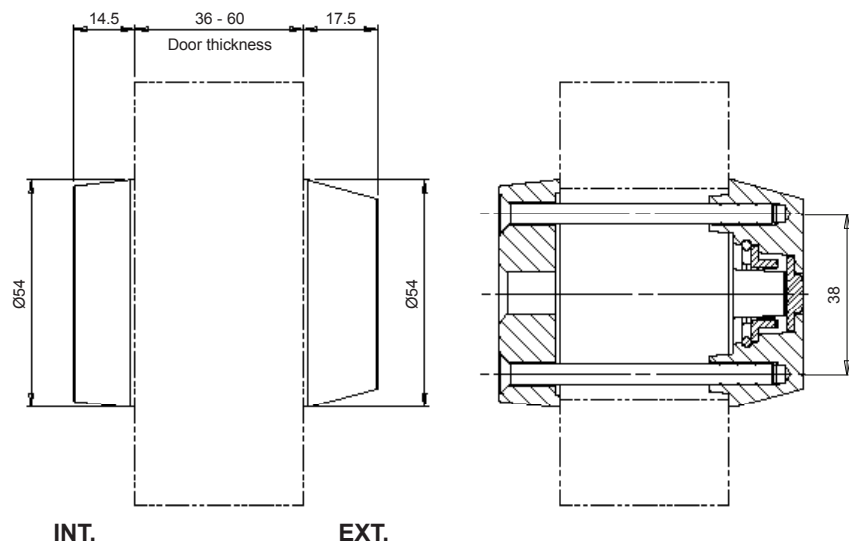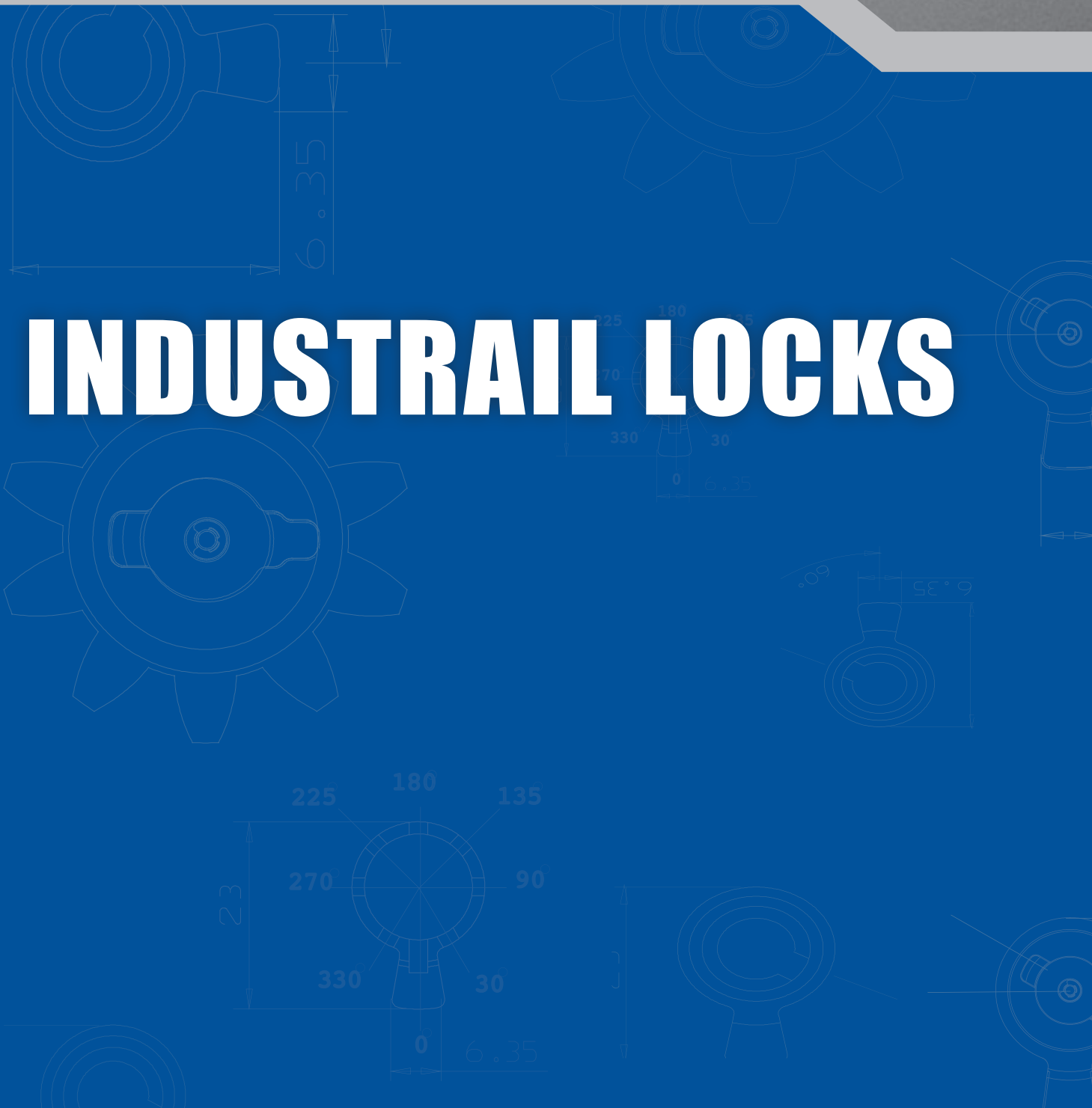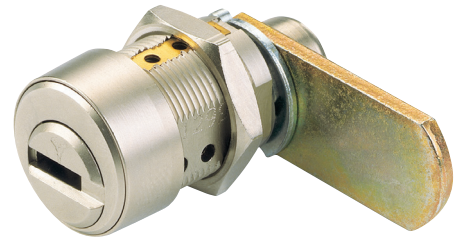
Operation
Retaining: 90°,180° cam rotation
Non-retaining: 90° cam rotation
Adjustable for clockwise or counter-clockwise operation.

Materials
Body, plug and ring: brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finishes
Nickel satin, brass

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.
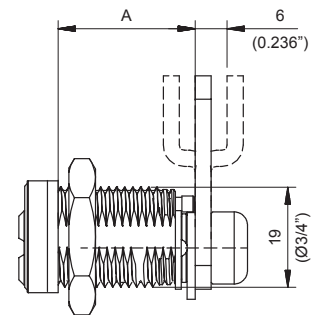
Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed
• Variety of cams

Standard
UL 437

Retaining key

16 (0.629")
32.3 (1.271")
2.1 (0.082")

A
6 (0.236")
19 (Ø3/4")
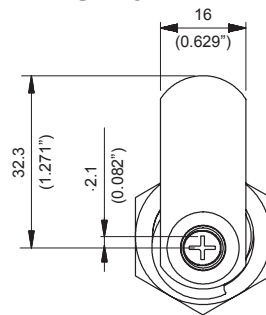
Retaining key hardware set:
1 flat cam
1 offset cam
1 spacer ring 3.4 mm
1 spacer ring 9.4 mm
1 plate for wood application

	A	Spacer	Chambers
Inch	⅝"	9.5	4
mm	15.9		
Inch	⅞"	N/A	4
mm	22.2		
Inch	⅞"	Included in set	5
mm	22.2		
Inch	1⅛"	Included in set	5
mm	28.6		
Inch	1½"	Included in set	5
mm	38.1		

Non-retaining key

16 (0.629")
30.2 (1.188")
2.1 (0.082")

A
Ø19 (Ø3/4")
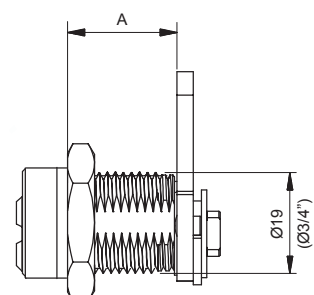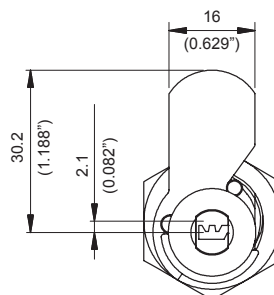
Non-retaining hardware set:
1 flat cam
1 spacer ring 3.4 mm
1 spacer ring 8.0 mm
1 plate for wood application

16 (0.630")
Ø19.3 (Ø0.760")
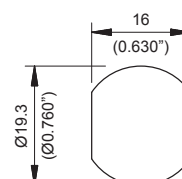
Opening required for installation

MUL-T-LOCK®

www.mul-t-lock.com

Cam Lock
Ø22 mm (⅞")
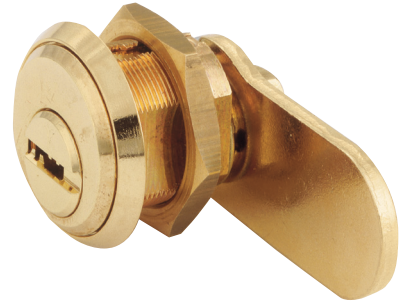
Applications
Mul-T-Lock® cam locks are available in various sizes, making them suitable for a wide range of applications: cabinets, drawers, parking meters, lockers, cash boxes, payphones etc.

Operation
90˚ cam rotation. Adjustable for clockwise or counter-clockwise operation.

Materials
Body, plug and ring: brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finishes
Nickel satin, brass

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)
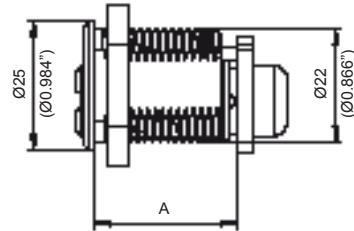
A	mm	Inch	Chambers
	22.5	0.885	4
	27.3	1.075	5
	38.3	1.5	5

Opening required for installation
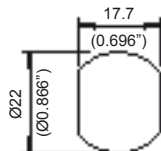
Spacer ring

B	mm	Inch
	2	0.078
	3	0.118
	4	0.157
	8	0.275
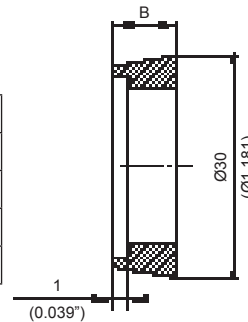
Cams available
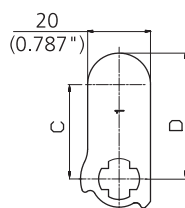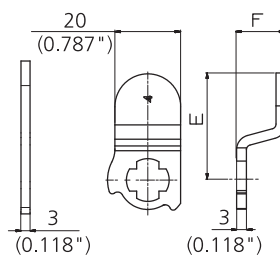
1-3   **4-9**   **8** P/N 87602063
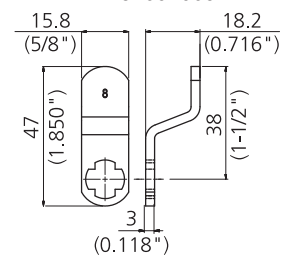
P/N	C	D	Marking
87602005	30	40	1
87602126	44	54	2
51056090	90	100	3

P/N	E	F	Cam
87602129	32	15	4
87602174	27.8	15	5
87602171	35.3	11.7	6
87602187	27.8	18	9
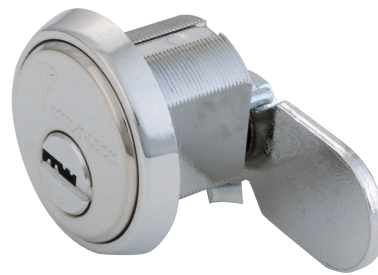
www.mul-t-lock.com

MUL-T-LOCK®

Cam Lock
Ø29 mm (1⅛")

Applications
Mul-T-Lock® cam locks are available in various sizes, making them suitable for a wide range of applications.

Operation
90˚ cam rotation. Adjustable for clockwise or counter-clockwise operation.

Materials
Body, plug and ring: brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel chrome matt, shiny brass, nickel chrome

### Special finishes
Antique brass

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)

1.150"-32 UNS

22 (0.866")

22 (0.866")

3 (0.118")

A

40.5 (1.594")
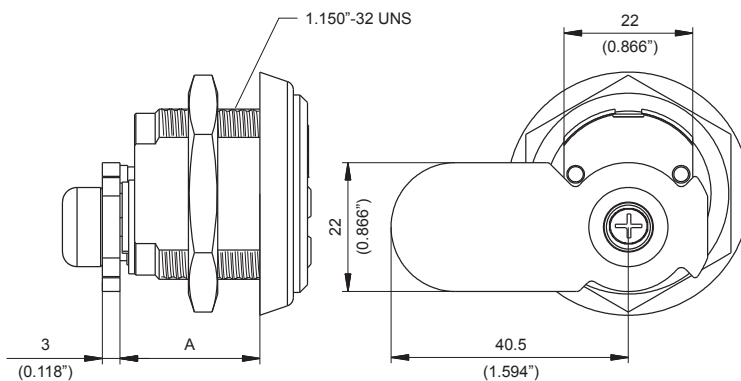
	mm	Inch	Chambers
A	24	0.994	4
	28.8	1.133	5

22 (0.866")

29 (3/4")

Opening required for installation

Spacer ring (standard mortise ring)

B

Ø42 (Ø1.653")

3 (0.118")

	mm	Inch
B	5.7	0.224
	8.9	0.350
	12.2	0.480
	15.5	0.610

Industrial Locks
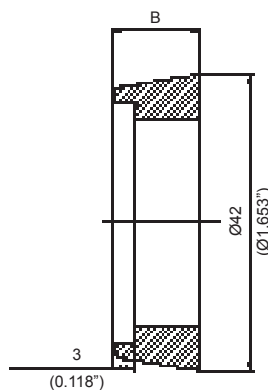
MUL-T-LOCK®

Cam Lock for Mail Box
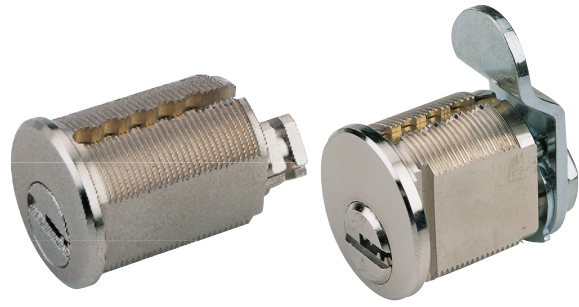
Application
Cam lock for mail boxes.

Operation
90˚ cam rotation. Adjustable for clockwise or counter-clockwise operation.

Materials
Body, plug and ring: brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel satin

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike,
• Master keyed
• '3 IN 1' (changeable combination)

Cam lock for "Norwegian" type mail box

Cam lock for "Danish" type mail box

Lock for Key Deposit Box

Lock and housing

Application
Lock for key deposit box. Retrofit for Abloy locks

Operation
90˚ cam rotation by operating key.

Options
• Set of lock and housing
• Lock only

Materials
Body and plug: brass
Cam and housing: steel
Pins: nickel silver and stainless steel

### Standard finish
Nickel satin

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.
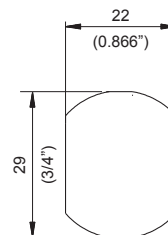
Cylinder options
• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)

40.8 (1.606")   5.8 (0.228")

33.5 (1.318")   53.6 (2.110")

MUL-T-LOCK®

www.mul-t-lock.com

Lock for "Lips" Type Key Deposit Box

Application
Lock for "Lips" type key deposit boxes.

Operation
90˚ cam rotation by operating key.

Materials
Body and plug: brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finish
Nickel satin

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed

Ø21
(0.826")

26.3
(0.062")

26.3
(1.035")

28.7
(1.129")

38
(1.496")

Industrial Locks

MUL-T-LOCK®

Switch Lock for Alarm System

Application
Key control for electrical circuits for alarm systems.

Operation
See Table.

Materials
Body, plug and ring: brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finishes
Nickel satin, brass

Cylinder mechanism
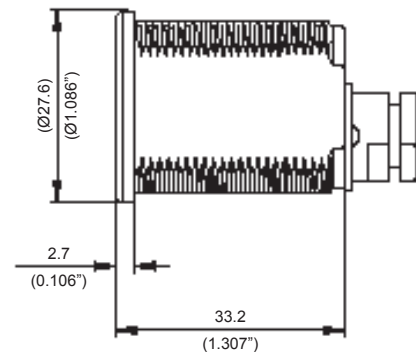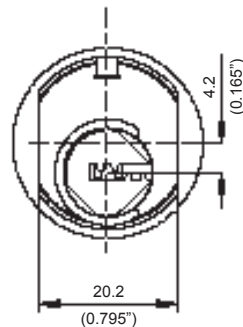Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.
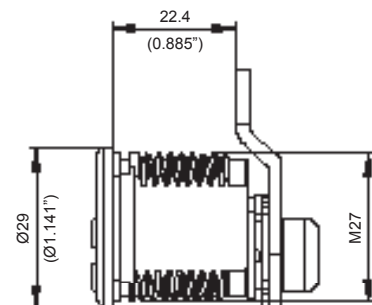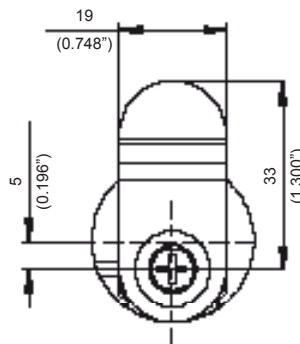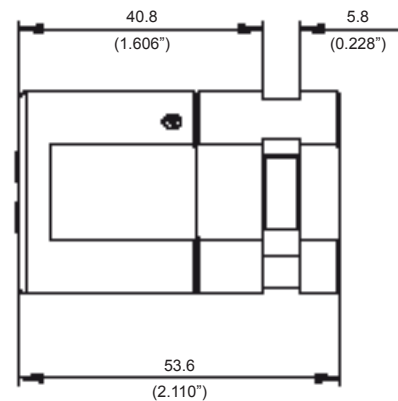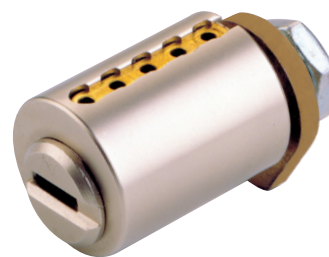
Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)

Standards
UL437, ISI 950
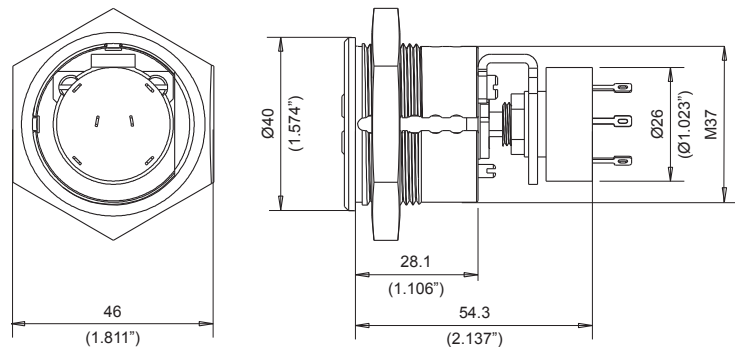
Key rotation	90°
Key removal	0°, 90°
Option	2 or 4 positions

30° indexing			
No. Poles	Model no.	Switch function	Terminals
DP	A204	4 positions	A,C,1-4,7-10
90° indexing			
No. Poles	Model no.	Switch function	Terminals
DP	A214	2 positions	A,C,1,4,7,10

3P MODELS

.118 DIA. (3,00ø)

3/8-32 UNEF 2A
.250 DIA. (6,35ø)

.217 FLAT (5,51)
.375 (9,53)

.040 (1,02)
.275 (6,99)
.505 (12,83)
.065 (1,65)
.250 (6,35)
.1.500 (38,10)

DP MODELS SCHEMATIC

A   C
1 2 3 4 5 6 7 8 9 10 11 12

(STD.) SOLDER LUG

.087 (2,21)
.250 (6,35)
.125 (3,18)
.048 (1,22)
.090 (2,29)
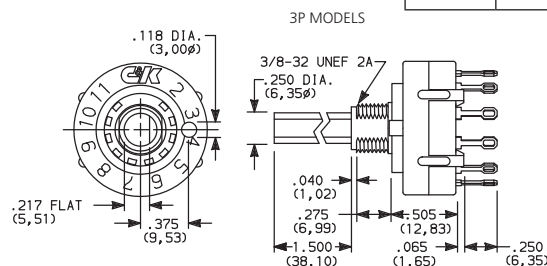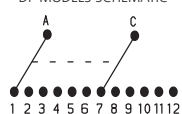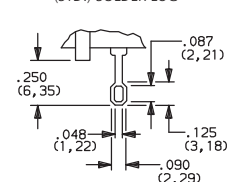
TERMINAL NUMBERS

Terminal numbers molded on bottom of housing.
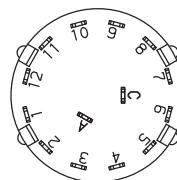
Switch specifications
Type: C&K components 204, 214
Switch: 2.5 AMPS @125 VAC;
350 mA @ 125 VDC (UL/CSA)
Carry: 5 AMPS continuous
Electrical life: 15,000 make-and-break cycles at full load up to 300,000 detente operations
Insulation resistance: 10^9 Ω min
Dielectric strength: 1,000 VRMS min @ sea level
Contact resistance: Below 20 mΩ typ. Initial @ 2-4 VDC, 100 mA

Ø40 (1.574")
Ø26 (Ø1.023")
M37
28.1 (1.106")
54.3 (2.137")
46 (1.811")

MUL-T-LOCK®

www.mul-t-lock.com

Switch Lock
Ø19 mm (¾"), Ø22 mm (⅞"), Ø29 mm (1⅛")

Application
Key control for electrical circuits.

Operation
See Table.

Materials
Body, plug and rings: brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finishes (Ø19, Ø22)
Nickel satin, brass

Standard finish (Ø29)
Nickel chrome matt, shiny brass, nickel chrome

Special finishes (Ø29)
Antique brass, antique bronze
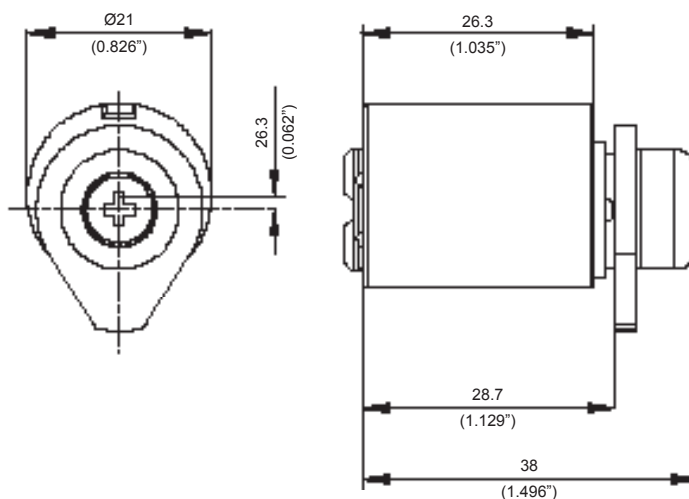
Cylinder mechanism
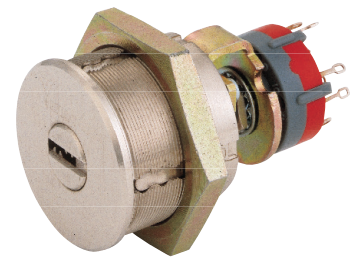Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• MT5® platform for Ø22, Ø29 switch locks
• Keyed different, keyed alike
• Master keyed

Standards
• UL437 - pick and drill resistance
• SII 950 - burglary resistance

Burgess F4T6 switch specification
• Contacts: fine silver
• Terminals: 2.0 mm faston
• Temperature range: -40°C to +85°C
• Mechanical life: 10^7 cycles minimum (impact free actuation)
• Protection type: enclosure – IP40

	Ø19				Ø22				Ø29			
Key rotation	90° or 360°				90° or 360°				90° or 360°			
Key removal	0° or 360°				0° or 360°				0° or 360°			
Electrical operation	Normally open/closed Momentary/permanent				Normally open/closed Momentary/permanent				Normally open/closed Momentary/permanent			
Cylinder dimensions	ØA	B	C	D	ØA	B	C	D	ØA	B	C	D
mm	19	22	16	25.4	22	25	18.5	27	29	33.8	26	35
Inch	3/4	7/8	5/8	1	7/8	1	11/16	11/16	13/8	15/16	1	13/8

Ring for Ø22
(standard cam Ø22 ring)
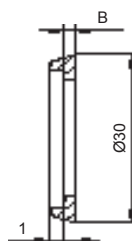
	mm	Inch
B	1	0.04
	6	0.236

Ring for Ø29
(standard mortise ring)
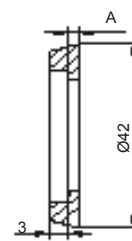
	mm	Inch
A	5.7	0.022
	8.9	0.35
	12.2	0.48
	15.5	0.61

Industrial Locks

www.mul-t-lock.com

Switch Lock
Ø19 mm (¾"), Ø22 mm (⅞"), Ø29 mm (1⅛")

Circuit diagram F4 T6

Common

Normally closed

Normally open

Change-over
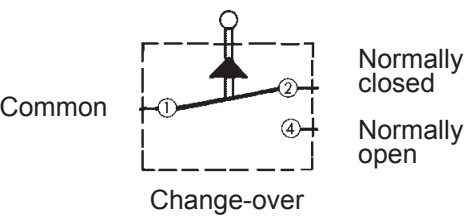
Recommended max. electrical ratings		
Voltage (VAC)	Resistive load (A)	Inductive load (A)
125	5	5
250	5	5

Recommended max. electrical ratings		
Voltage (VDC) up to	Resistive load (A)	Inductive load (A)
30	5	5
50	2	2
75	1	1
125	0.5	0.06
250	0.25	0.03

www.mul-t-lock.com

Multi-Bolt Locking for Cabinet

Application
Multipoint locking for cabinets.

Operation
90˚ cam rotation by operating key. Directly linked to cam and bolts. Adjustable for clockwise or counter-clockwise operation.

Options
Solid spacer ring, available in different thicknesses.

Materials
Body, plug and ring: brass
Cam: steel
Bolts & support: zinc-plated steel
Pins: nickel silver and stainless steel

Standard finishes
Antique brass, antique bronze, nickel chrome, shiny brass

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.
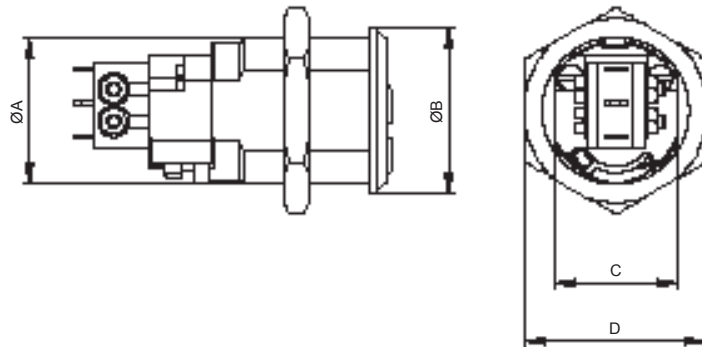
Cylinder options
• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)

1.150" - 32 UNS -2A
Ø33 (Ø1.300")
26 (1.023")
45 (1.771")
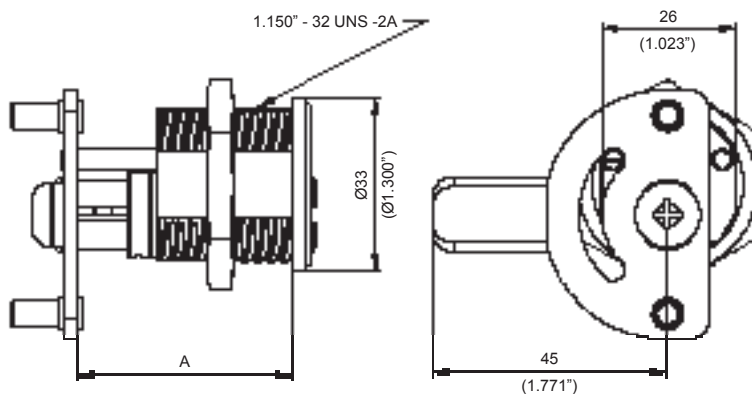
	mm	Inch	
A	37	1.45	4
	40	1.57	5

Spacer ring (standard mortise ring)

B	mm	Inch
	5.7	0.22
	8.9	0.35
	12.2	0.48
	15.5	0.61

Ø42 (Ø1.653")
3 (0.118")

Industrial Locks

MUL-T-LOCK®

Drawer Deadlock
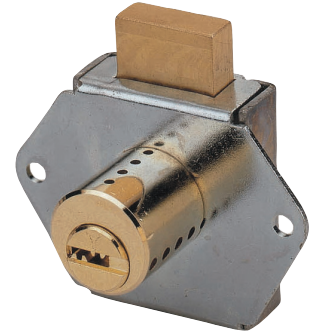
Application
Securing drawers and small cabinets.

Operation
90˚ rotation by operating key
Lazy mechanism
Available with key retaining by special order.

Materials
Body and plug: brass
Lock case: steel
Dead bolt: brass
Pins: nickel silver and stainless steel

Standard finishes
Brass, nickel satin, shiny brass

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed.

Industrial Locks

www.mul-t-lock.com

MUL-T-LOCK®

Drawer Latch Lock

Application
Securing drawers and small cabinets.

Operation
• 45˚ rotation by operating key
• Slam locking mechanism

Options
Two latch sizes available.

Materials
Body and plug: brass
Lock case: steel
Latch: cast zinc alloy
Pins: nickel silver and stainless steel

Standard finishes
Brass, nickel satin, shiny brass

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+, MT5® platforms
• Keyed different, keyed alike
• Master keyed
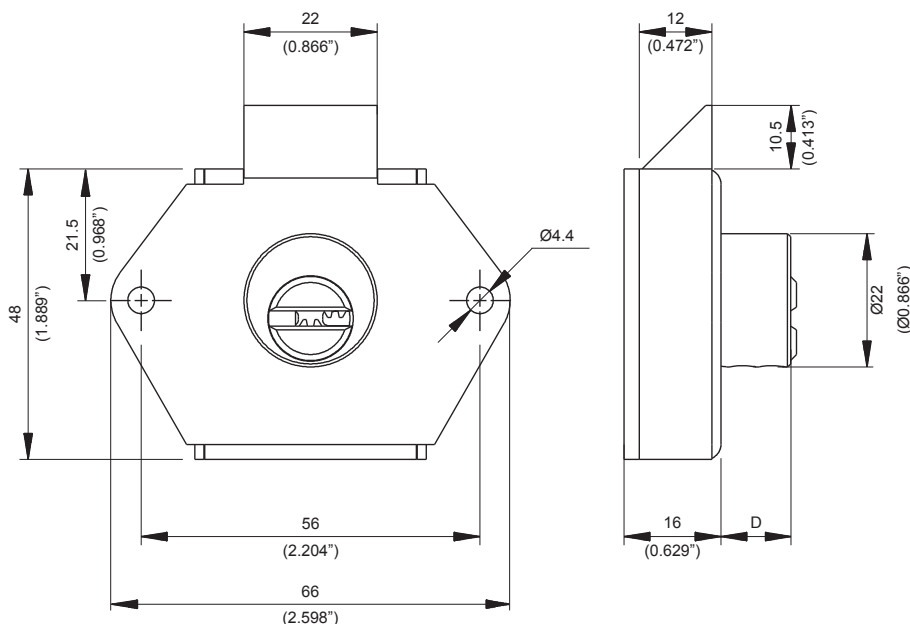
Type		D	Chambers
Regular	mm	11.5	4
	Inch	0.452	
Heavy duty	mm	21.5	5
	Inch	0.846	

Push Lock

Application
Mounted into 29 mm hole for securing sliding units (e.g. sliding glass doors).
Suitable for various door thicknesses.

Operation
• Push to lock
• 90˚ rotation by operating key releases spring loaded locking pin
• Slam locking mechanism

Options
Bolt can be spring loaded/locked.

Materials
Body and plug: brass
Housing: aluminium
Pins: nickel silver and stainless steel

Standard finish
Nickel chrome

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.
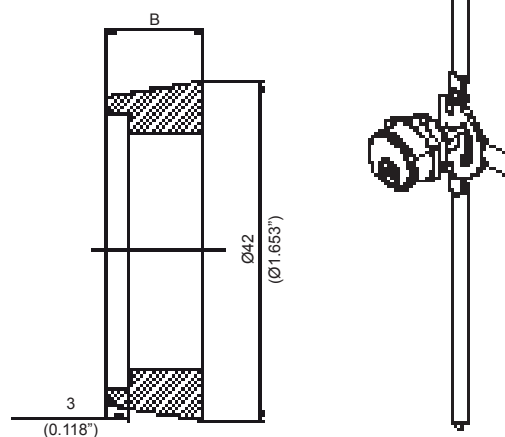
Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)

	mm	Inch
A	14	0.55
	20	0.78
	25	0.98
	32	1.26

MUL-T-LOCK®

www.mul-t-lock.com

Bullet Lock

Application
Securing vertical roller shutters.

Operation
Rotate 90˚ by operating key and push lock into existing housing or shutter channel.

Option
Bolt can be spring loaded/locked.

Materials
Body and plug: brass
Locking pin: steel
Pins: nickel silver and stainless steel

Standard finish
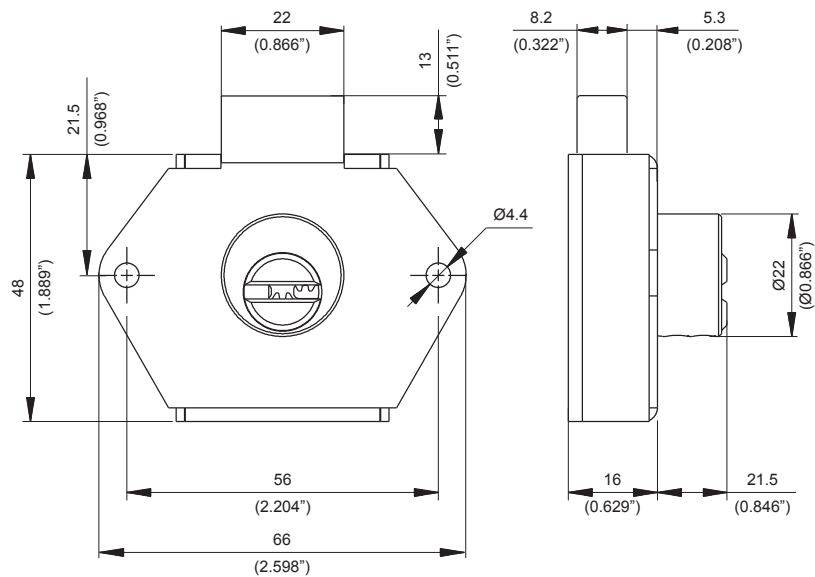Brass, nickel satin

Cylinder mechanism
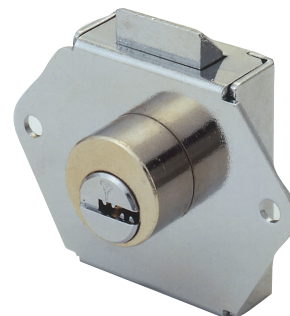Mul-T-Lock's unique high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)

23 (0.905")
21 (0.826")
Ø14.2 (Ø0.559")
Ø7 (Ø0.275")
Ø12.7 (Ø0.500")
33 (1.266")
43 (1.692")

Industrial Locks

MUL-T-LOCK®

T-Handle Lock

Application
Securing vending machines with standard T-handle.

Operation
Rotate key 90˚ to unlock.

Materials
Body and plug: brass
Locking pin: hardened steel
Pins: nickel silver and stainless steel

### Standard finish
Nickel satin

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed

Industrial Locks

MUL-T-LOCK®

File Cabinet Lock

Application
Locking file cabinets.

Operation
• Push to lock.
• Rotate 90˚ left or right to unlock.

Options
Bolt can be spring loaded/locked.

Materials
Body and plug: brass
Pins: nickel silver and stainless steel

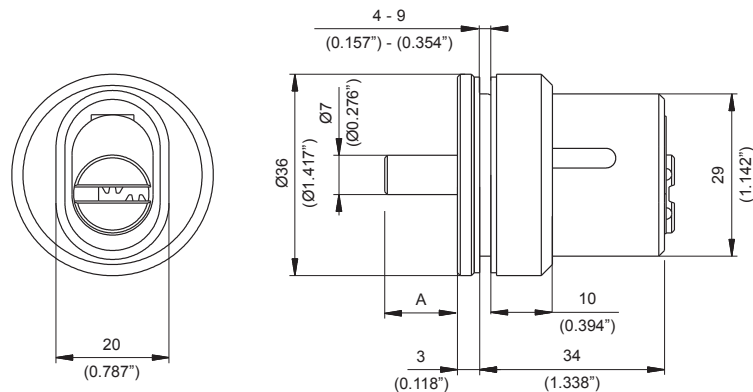## Standard finishes
Nickel satin, brass

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.
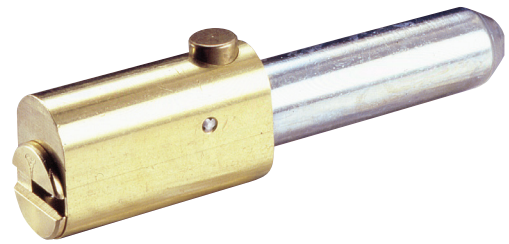
Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)

21 (0.827")
23 (0.905")
14.2 (0.560")
Ø7 (Ø0.275")
27 (1.063")
49 (1.929")

Industrial Locks

MUL-T-LOCK®

Gas Tank Lock

Application
Securing gas pipes with thread or bayonet fixing (e.g. propane gas containers, tankers, etc.)

Operation
• 45˚ key rotation
• Slam locking mechanism

Materials
Body and plug: brass
Pins: nickel silver and stainless steel
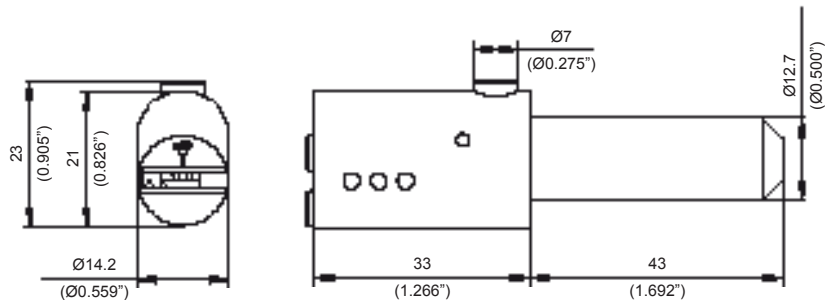
Standard finish
Black

Cylinder mechanism
Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
• Classic, Interactive®+ platforms
• Keyed different, keyed alike
• Master keyed
• '3 IN 1' (changeable combination)

A minimum quantity is required. Please call for pricing.

Ø54 (Ø2.126")
2.1 (0.083")
50 (1.968")

Industrial Locks

MUL-T-LOCK®

M-60 Mortise Deadlock

Application
Single point deadlocking operated by Euro profile cylinder.

Operation
2 x 360˚ key rotation fully extends the bolt.

Materials
Mechanism and case: steel
Bolt: brass, reinforced with steel inserts
Cylinder protector: hardened steel

Standard finishes
Nickel, shiny brass
Cover plate color: white, brown
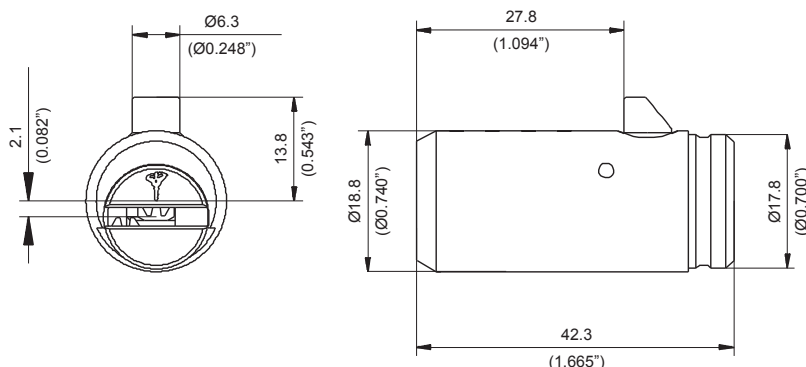
Cylinder mechanism
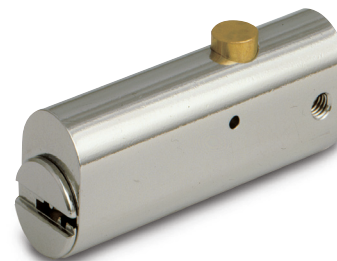Mul-T-Lock's unique high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver

Cylinder option
Euro profile cylinder

A minimum quantity is required.
Please call for pricing.

www.mul-t-lock.com

Plunger Lock

Application
Securing cabinet sliding doors.
Suitable for wood, metal and glass doors.

Features
- Spring-loaded pop-out cylinder, complete with an interlocking butterfly tail piece
- Easily switched from a key-retaining to a non-key-retaining configuration
- Easy re-keying to the desired key combination

Operation
90° turn to lock/unlock.

Standard finishes
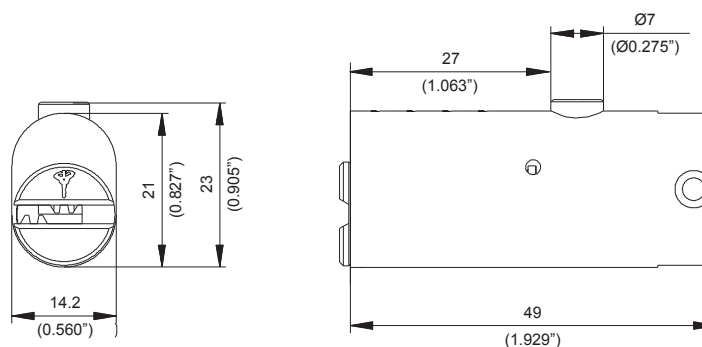Nickel satin.

Cylinder mechanism
Mul-T-Lock's unique high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options
- Classic, Interactive®+ platforms
- Keyed different, keyed alike
- Master keyed

Locked position

Unlocked position

www.mul-t-lock.com

Industrial Locks

MUL-T-LOCK®

Showcase Lock
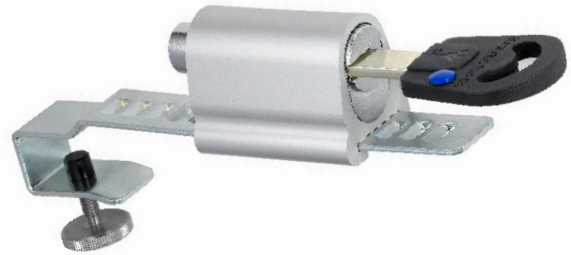
Application

Securing sliding glass doors of cabinets, cupboards and display cases.

Options

- Version with wide opening and fixing screw accommodates up to 8 mm glass thickness.
- Version without fixing screw accommodates up to 7 mm glass thickness.

Operation

Rotation of operating key activates locking mechanism.
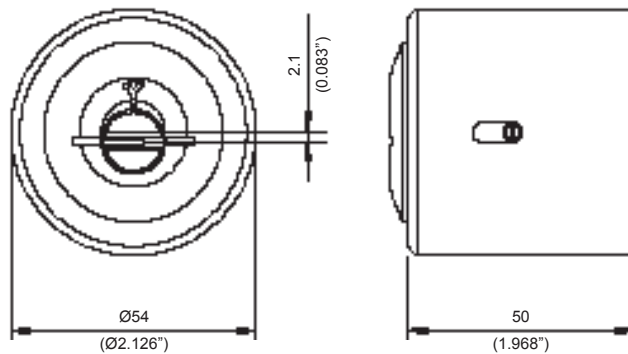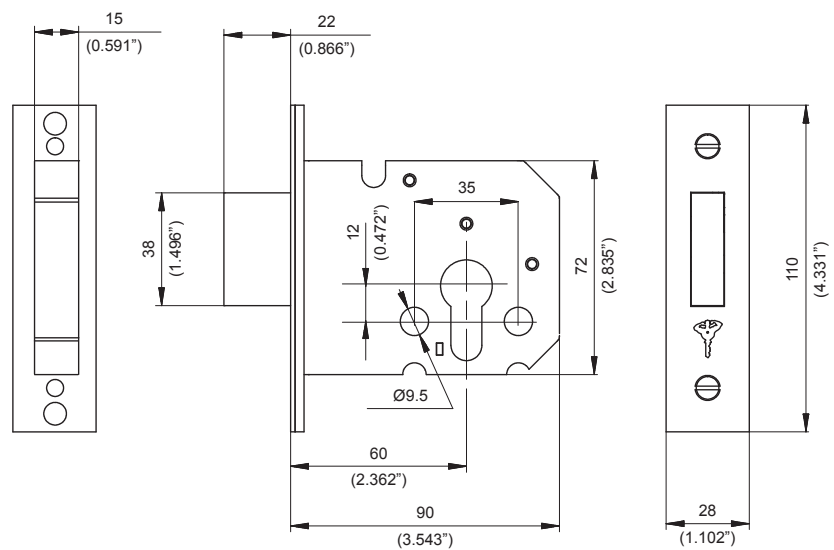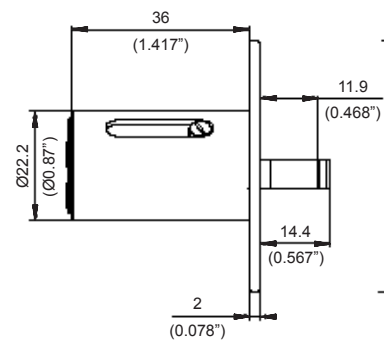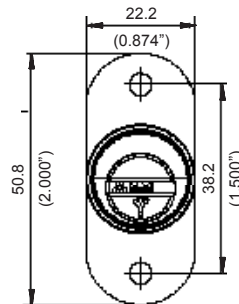
Cylinder mechanism

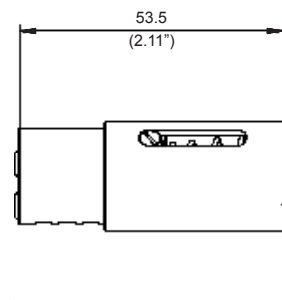Mul-T-Lock's unique, high precision pin tumbler system.

Keys

Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder options

- Classic, Interactive®+ platforms
- Keyed different, keyed alike
- Master keyed

www.mul-t-lock.com

KEY MANAGEMENT

TRAKA21
Intelligent key Management System

Function

Traka 21 secures, monitors and creates permission-based access for all of your keys. It controls access and automatically records when a key is used and by whom. Audit trail information can be easily viewed on the cabinet's built-in screen or exported to a USB drive. An affordable, convenient, plug and play unit, Traka 21 manages access to your assets via key control, while keeping you informed.

Applications

Traka 21's innovative plug and play system provides businesses in various vertical markets such as pharmacy, banking, prisons and secure units, manufacturing facilities, property management and many others with the very latest intelligent key management. Traka 21 helps ensure smooth business operations by monitoring and managing keys and keysets.

Operation

- Stand-alone, plug and play solution with advanced RFID technology
- Touchscreen interface
- PIN access to designated keys or keysets which are individually locked in place
- Keys are securely attached using special security seals
- Simple to configure through setup wizard
- No requirement for network connection or PC
- Concealed robust fixing points allow secure wall fixing
- Mains operated with optional battery backup
  - Mains operated 100 to 250v AC (wall-mounted power supply)
  - Optional battery backup (12V, 1.2A, 12-24 hours life time) – data remains secure in the event of a power outage

MUL-T-LOCK®

www.mul-t-lock.com

TRAKA21 (continue)
Intelligent key Management System

Features
- User, key and access rights administration
- Multilingual functionality
- Screen-based audit trail and reporting capability or export via USB port
- 21 robust, long-life iFobs with security seals
  - Gives keys an electronic identity eliminating the need to mark keys
  - Self cleaning
- 21 locking receptors with LEDs, color legend:
  - Red = Access Denied
  - Green = Access Granted
  - Yellow = Held by You
  - Off = Held by someone else or not defined
- Robust and compact steel housing eliminates exposed hinges and obvious access points
- Manual override and door release in case of emergency (no manual override on receptor solenoids)
- Audible alarms when the following takes place:
  - Door is left open
  - Door forced open
  - Low battery
  - Return attempt to the wrong hole
- USB Import/Export with XML file
- Door with kick opening - door springs open with valid PIN
  - Radical failure
  - No power supply from either external power or battery

Specifications
- Cabinet dimensions: (H)427 mm x (W)246 mm x (D)95 mm
- Weight: 3.94kg
- Power supply: Input: 100-240V AC, Output: 15V DC
- Battery backup: DC12v 1.2Ah (optional)
- Power: 15v 0.7amp max
- Operating temp: Ambient, for indoor use only (-5°C to +50°C at 95% non-condensing relative humidity)
- Mounting: Wall
- Key positions: 21
- 256M RAM: up to 250,000 events
- Users per system: 1,000
- Interface: PIN only
- Certifications: CE, FCC, IC

www.mul-t-lock.com

MUL-T-LOCK®

VEHICLE PROTECTION SOLUTIONS

MVP 22

Function
For a visible deterrent, the MVP 22 is a top-mounted lock that locks your vehicle's gearshift, protecting it against theft. Suitable for both manual and automatic transmissions

Applications
Using a robust shackle and rigidly mounted to the vehicle's chassis, MVP 22 prevents the movement of the gear lever.

Options
• Keyless locking – insert shackle to lock
• Can be provided with an optional Internal micro-switch for electronic security system integration

Cylinder Mechanism
Mul-T-Lock's unique high precision pin tumbler system

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder Options
• 7x7, Classic, Integrator®, Interactive®+, MT5®, CLIQ®, MT5® CLIQ® platforms
• Keyed different, keyed alike
• Master keyed

MUL-T-LOCK®

www.mul-t-lock.com

MVP 45

Function

For a visible deterrent, the MVP 45 is a top-mounted lock that locks your vehicle's gearshift, protecting it against theft. Suitable for both manual and automatic transmissions.

Applications

Using a robust shackle and rigidly mounted to the vehicle's chassis, MVP 45 prevents the movement of the gear lever.

MVP 45 presents easy 45° key insertion angle.

Options

• Keyless locking – insert shackle to lock
• Can be provided with an optional Internal micro-switch for electronic security system integration
• Key retaining version

Cylinder Mechanism

Mul-T-Lock's unique high precision pin tumbler system

Keys

Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder Options

• 7x7, Classic, Integrator®, Interactive®+, MT5®, CLIQ®, MT5® CLIQ® platforms
• Keyed different, keyed alike
• Master keyed

www.mul-t-lock.com

VPS

MVP 52

Function
MVP 52 is a concealed lock which secures the gearshift from under the console, helping prevent vehicle theft without disrupting the car's aesthetics. Fitting both manual and automatic transmissions

Applications
Using a robust locking bolt and rigidly mounted to the vehicle's chassis, MVP 52 prevents the movement of the gear lever.

Options
- Keyless locking – insert bolt to lock.
- Can be provided with an optional Internal micro-switch for electronic security system integration.
- Key retaining version

Cylinder Mechanism
Mul-T-Lock's unique high precision pin tumbler system

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder Options
- 7x7, Classic, Integrator®, Interactive®+, MT5®, CLIQ®, MT5® CLIQ® platforms
- Keyed different, keyed alike
- Master keyed

VPS

MUL-T-LOCK®

www.mul-t-lock.com

CarDfence

Function

CarDfence is a unique theft prevention solution that uses an active transmitter in the form of an authorization card – smaller than a credit card – to communicate with a shut-off unit installed in your vehicle. When armed, CarDfence prevents theft by disabling the ignition or the fuel pump when the authorization card is out of range. Carried discreetly, the authorization card can be placed in your pocket, purse or wallet, and works in two distinct ways:

Automatic Theft Protection - Whenever you turn off the engine and leave your car's immediate range (about 5 meters), the system automatically arms itself and disables the engine, preventing it from starting. When you come back to the vehicle with the concealed CarDfence card, the system is automatically disarmed and lets you start the engine. By simply carrying the CarDfence card, all of these actions are automatic and work to protect your vehicle.

Carjack Protection - In the event of an attempted carjacking, and the driver carrying the CarDfence card is ejected from the car, the system detects the loss of communication with the card triggering a delayed shut off in several minutes or kilometers. This allows the driver to safely get as far away from the vehicle as possible, while still disabling the vehicle in close enough proximity for authorities to quickly recover it.

CarDfence works with all vehicles and includes these features:

• Simple, easy installation
• Easy-to-use and fully automatic
• Supports up to four authorization cards per system
• Advanced operational modes: Valet Mode and Emergency Bypass

VPS

www.mul-t-lock.com

3-Way Lock for commercial vehicles

Function

Enhanced protection for commercial vehicle and its content with Mul-T-Lock's patented 3-way Lock. Using a single key, the back and side doors of the pickup truck, panel van, minivan and large Delivery vehicle will get the enhanced protection they need

Features

- Innovative, patented cylinder
- Easy installation, lightweight and sturdy
- Highly resistant to picking and drilling
- Seamlessly blends in with vehicle's exterior
- Suitable for a wide range of vehicles; specific kit for each vehicle model
- Single-point locking for side door is optional with keyed-alike option for rear door lock

Cylinder Mechanism

Mul-T-Lock's unique high precision pin tumbler system

Keys

Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver.

Cylinder Options

- 7x7, Classic, Integrator®, Interactive®+, MT5®, CLIQ®, MT5® CLIQ® platforms
- Keyed different, keyed alike
- Master keyed

Standard

CNPP

www.mul-t-lock.com
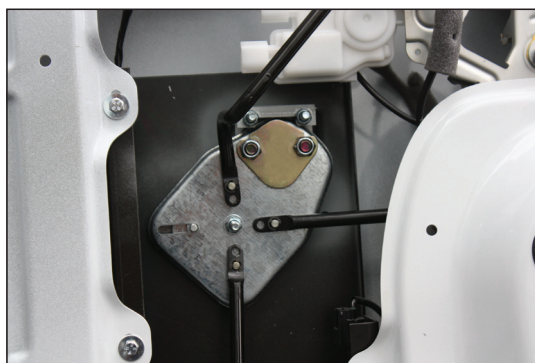
ArmaDlock

Function
ArmaDlock was designed to fortify the security of commercial vehicles, in particular, those carrying goods and equipment. Simple to use and install, ArmaDlock fits almost any type of vehicle door, both rear and sliding.

Applications
Using a Hasp locking system, ArmaDlock is applied to commercial vehicle cargo compartment doors and can be used for other applications with similar needs or structure, for example: entrance doors (single or double), electrical cabinets etc.

Options
• Dust cover
• Keyless locking – push to lock
• Robust aluminum lock structure
• Two versions:
  - For vehicle rear doors (also applicable to any hinged door)
  - Side sliding doors

Material
Body: high precision aluminum
Bolt: 12 mm alloy steel

Cylinder mechanism
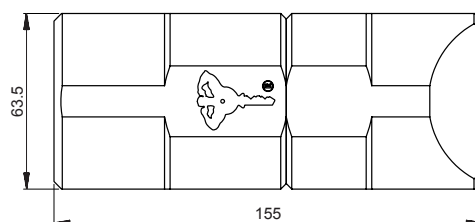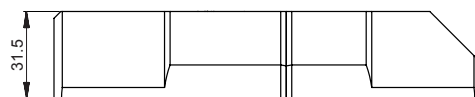Mul-T-Lock's unique, high precision pin tumbler system.

Keys
Reversible nickel silver key with plastic key head and colored insert for identification. Also available in all nickel silver keys.

Cylinder options
• 7x7, Classic, Integrator®, Interactive®+, MT5®, Interactive®+ CLIQ®, MT5® CLIQ®
• Keyed different
• Keyed alike
• Master keyed

VPS

www.mul-t-lock.com

KEY CUTTING

MACHINS

KC5™

Computerized Key-Cutting Machine

KC5 is Mul-T-Lock® Machinery's perfect answer for the modern-day locksmith in search of new professional horizons. Computerized, intelligent and automatic, this elegant key-cutting platform responds to the needs of all customers, large and small: from single key orders to extensive projects requiring complex security solutions.

Compatible with all Mul-T-Lock® cylinder platforms, including the ground-breaking MT5®, KC5 offers cut-to-code capabilities based on magnetic card readings, as well as key marking features and user-friendly software.

A web-based Machine Management System, specially developed by Mul-T-Lock®, provides this smart machine with advanced configuration, authorization and service management capabilities.

Specifications

Width: 500 mm (19.7")

Height: 360 mm (14.2")

Depth: 340 mm (13.4")

Motor: Single phase 300W

Voltage: 110v 60 Hz
           220v 50 Hz

Weight: 32kg (71.5 lb.)

Approval: CE Machinery Directive (89/392/EEC)

www.mul-t-lock.com

Compact II
Manual Key-Cutting Machine

Mul-T-Lock® Machinery's compact manual key-cutting machine is a modern, high-precision, CE-certified machine that cuts Mul-T-Lock® cut-to-code keys of the Classic and Interactive® series.

Set to the correct combination by the key registration card (included in the original package sold to the customer), the machine cuts keys according to the manufacturer's initial specifications. Cutting is performed one side at a time, allowing a different combination on either side of a single key blank.

The machine features a new depth-setting mechanism, patent pending in many countries worldwide, and is capable of cutting side and back pins. It is lightweight and portable, weighing only 20.6 kg (45 lb.) and conveniently equipped with a handle, and may be used in vehicles with a suitable power supply (not supplied).

Available in 110 and 220 volt versions.

Specifications

Width: 245 mm (9⅝")

Height: 327 mm (12⅞")
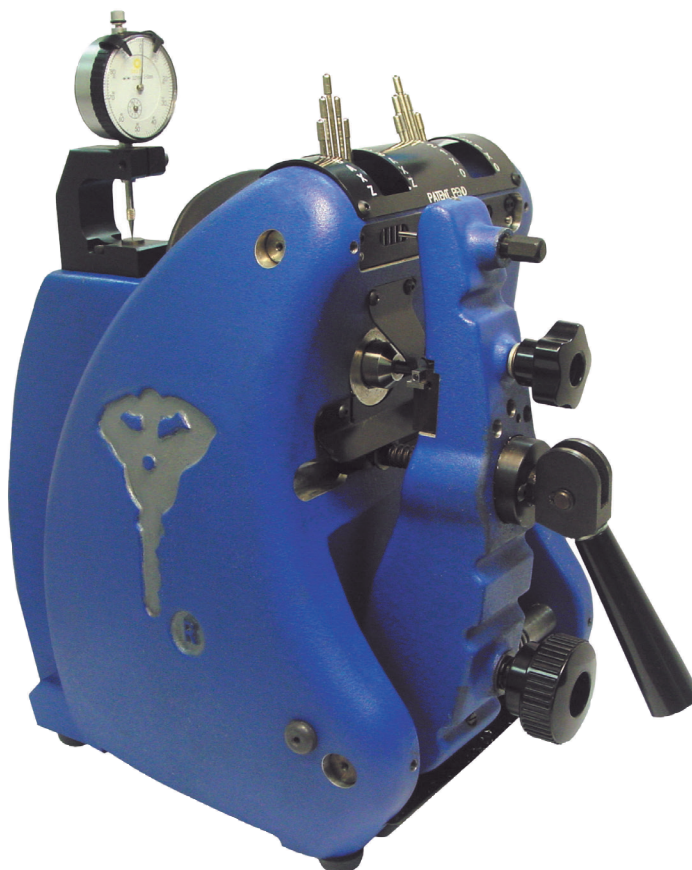
Depth: 355 mm (14")

Motor: Single phase 245W

Voltage: 110v 60Hz
100v 60Hz/50Hz (Japan)
220v 50Hz

Weight: 20.6kg (45 lb.)

Approval: CE Machinery Directive (89/392/EEC)

www.mul-t-lock.com

MUL-T-LOCK®

Compact 7x7®

Manual Key-Cutting Machine

Mul-T-Lock® Machinery's compact manual key-cutting machine is a modern, high-precision, CE-certified machine that cuts Mul-T-Lock® cut-to-code keys of the 7x7 and integrator® series.

Set to the correct combination by the key registration card (included in the original package sold to the customer), the machine cuts keys according to the manufacturer's initial specifications. Cutting is performed one side at a time, allowing a different combination on either side of a single key blank.

The machine features a new depth-setting mechanism, patent pending in many countries worldwide, and is capable of cutting side and back pins. It is lightweight and portable, weighing only 20.6 kg (45 lb.) and conveniently equipped with a handle, and may be used in vehicles with a suitable power supply (not supplied).

Available in 110 and 220 volt versions.

Specifications

Width: 245 mm (9⅝")

Height: 327 mm (12⅞")

Depth: 355 mm (14")

Motor: Single phase 245W

Voltage: 110v 60Hz
          100v 60Hz/50Hz (Japan)
          220v 50Hz

Weight: 20.6kg (45 lb.)

Approval: CE Machinery Directive (89/392/EEC)

MUL·T·LOCK®

www.mul-t-lock.com

GENERAL TERMS

General Terms and Conditions of Sale and Trade

1. Conditions of Sale

All sales made or negotiated by Mul-T-Lock® Technologies Ltd. ("MTLT") shall be subject to the Terms and Conditions set forth herein, which may be added to, modified, superseded or otherwise altered only by written instrument signed by authorized executives of MTLT. Failure of MTLT to object to any provisions that may be contained in any order or other form of Buyer, shall not be construed as a waiver of these Terms and Conditions nor an acceptance of any such provision.

2. Shipment and Delivery

Unless otherwise specifically agreed by writing, delivery terms are F.O.B. Israel. Buyer shall assume all risk of loss or damage upon delivery to carrier at the port of shipment, even if other delivery terms are agreed upon. Shipping dates are approximate and are based upon prompt receipt of all necessary information. MTLT shall not be liable for delays in delivery or failure to manufacture or deliver due to causes beyond its control, such as but not limited to: acts of God, acts of Buyer, acts of Authority, delays in transportation, etc. in which case, the date of delivery shall be extended for a period equal to time lost by reason of the delay. Goods shall be supplied +/ 5% of ordered quantity. Partial shipments may be made.

3. Payment Terms

Unless otherwise agreed in writing, payment should be in accordance to the payment terms stated on the invoice. If payments are not made when due, Buyer will pay, in addition to the overdue payment a late charge equal to the lesser of 1.5% per month or the highest applicable rate allowed by law on such overdue amounts. Payment should be made by an irrevocable Letter of Credit (L/C) confirmed by a first class bank acceptable to MTLT, to be opened by Buyer and received by MTLT at least nine weeks before ex-factory delivery date. If payment C.A.D. will be agreed upon, Buyer undertakes to release the shipment from carrier within two weeks from arrival at port of destination. All payments to MTLT by bank remittance are to be effected by electronic bank transfer.

4. Prices

Prices are subject to changes and will be indicated on each order confirmation/proforma invoice. MTLT's price lists are for general information only, and do not constitute a binding open offer by MTLT for the sale of Products. MTLT reserves the right to make modifications, or changes at any time without prior notice

5. Possession and Title

The goods shall remain in MTLT's legal and equitable ownership until such time as Buyer pays to MTLT the agreed price together with the full price of any goods which are the subject of any other order placed with MTLT, and until such payment, Buyer shall be in possession of the goods in a fiduciary capacity as bailee for MTLT.
MTLT normally will not accept Products for re-stocking.
Any cancellation of Products within 7 working days, will be accepted subject to payment of 15% of the purchase order as an handling fee and will bear all transportation costs.

6. Default of Infringement

6.1 In the event that at any time Buyer is in default of payment or in breach of these terms, MTLT reserves the right to withhold delivery, cancel and terminate any order, and hold Buyer liable for any damage or expenses incurred by or to MTLT.

6.2 In addition to the above, MTLT reserves the immediate right to re-possess any goods to which it has retained title as aforesaid and thereafter to re-sell the same, without prejudice to any of MTLT 's rights hereunder or otherwise.

7. Mul-T-Lock® Restrictive Key Cutting System

Buyer undertakes to follow and to act according to MTLT's Restrictive Key Cutting System as in force from time to time, and to request its latest version from MTLT.

8. Trade Relations

Relations under these terms are those of seller and buyer for each sale and should not be construed as an undertaking for continuing sales. Buyer has no right to create any obligation or responsibility whatsoever on behalf or in the name of MTLT, nor use MTLT's trademarks and/or tradenames without MTLT's express written consent, nor by any act of omission, harm the good reputation of MTLT.

9. Warranty and Liability for Goods Sold

The Warranty supplied with goods purchased hereunder will be the sole warranty with respect to such goods. The Buyer will provide to dealers and end-user customers all warranty service under the terms of the Warranty for the entire period specified therein. MTLT will repair or replace at its sole discretion the product parts specified in the warranty, subject to entitlement under the warranty and under the terms thereof. MTLT shall not be liable for consequential or incidental damages, or for any expenses or losses incurred by Buyer and/or dealers and/or end-user customers for any reason whatsoever, including but not limited to any expenses or losses associated with an unauthorized representation or warranty as to the goods.

10. Language

The only foreign language binding MTLT in correspondence, documents, etc., shall be the English language.

11. Applicable Law and Jurisdiction

These terms are governed by and construed according to the laws of the State of Israel. The exclusive jurisdiction with respect to any dispute arising between the parties under these terms shall be with the Competent Court in the District of Tel-Aviv, Israel.

MUL-T-LOCK®

www.mul-t-lock.com

About Mul-T-Lock

For more than 4 decades, Mul-T-Lock® has been designing, manufacturing, marketing and distributing innovative High Security locking solutions to people, places and organizations globally. Adhering to the world's most stringent standards, Mul-T-Lock® High Security solutions are at work on every continent, in nearly 70 countries, and securing over 100 million users. Using advanced and patented technologies, Mul-T-Lock® stays a step ahead of the market by anticipating customers' security and operational needs.

As a member of the ASSA ABLOY Group, and with availability through over 20,000 authorized and trained service centers, customers rely on Mul-T-Lock® to provide proven, proactive and protective High Security locking platforms.

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An ASSA ABLOY Group brand

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