

M500 Series Mortise Locks

ANSI Grade 1 Heavy Duty Commercial Locks

2

A valued brand of



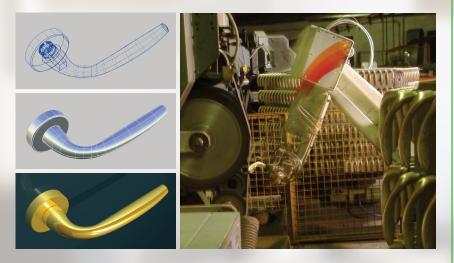
www.FRInternational.com

About Us

From our earliest beginnings in 1945 as a workshop in northern Italy, Frascio has grown to become a globally recognized decorative door hardware brand specified by premier architects and designers worldwide.

We remain true to our original manufacturing philosophy: to use only the highest quality materials, to continuously research emerging designs and technology, and to uphold careful attention to production detail.





We utilize the latest CAD engineering tools to create designs and ensure reliable system operation. And, for those projects that require additional shapes and configurations, we are pleased to offer our **custom design services** and rapid prototype capability.

FR International, based in Carmel, Indiana, provides the commercial marketplace with all the advantages of a high-end decorative hardware brand combined with strong mechanical engineering and commercial hardware industry experience. Our designs are available on rugged commercial quality mechanical platforms that conform to market requirements.

Find our full downloadable Frascio Design Catalog online at FRInternational.com or contact us for physical electronic media version.



Environmentally-friendly manufacturing



Frascio products are manufactured primarily from brass, zinc, stainless steel, and steel. Much of the raw material used to produce these parts comes from recycled metal. The percentage of postconsumer and post-industrial recycled content is estimated as follows:

- The brass and zinc materials that are used to make many Frascio products typically contain 80-100% recycled material, a combination of melted scrap metal and reclaimed by-products.
- The post-industrial recycled content of steel used to make Frascio products is approximately 30–40% (Approximately 30%–40% of the metal used to produce Frascio products is either scrap metal or other recycled material that is melted in the furnace).
- Stainless steel that is used in Frascio products has a postindustrial recycled content of approximately 70%, and a postconsumer recycled content of approximately 8%.
- Approximately 40% of the packaging that is used by Frascio is comprised of recycled material.

The above percentages show an average of Frascio's overall production. Actual percentages on any order will vary based on the specific products that comprise that order as well as the mill source.

When no longer needed, Frascio brass, stainless, and zinc parts are 100% recyclable to support sustainable design practices.

Frascio is committed to responsible business and manufacturing practices that help conserve resources and protect our environment.

M500 Series Features and Specifications



Specifications			
Applications	For commercial buildings where the finest mortise locks are required		
Certifications	ANSI A156.13 Series 1000, Grade 1 operational. UL Listed for 3-Hour fire rating		
Case Size	4-5/16" x 6" x 1" (110 mm x 152 mm x 25 mm)		
Armor Front	1-1/4" x 8" x 7/32" (32 mm x 203 mm x 5 mm)		
Backset	2-3/4" (70 mm) and 2-1/2" (63.5 mm)		
Door Preparation	Conforms to ANSI A115.1		
Door Range	1-3/8" (35mm) to 2-1/2" (64 mm) steel door, 1-3/4" (45mm) to 2-1/2" (64mm) wood door		
Beveled Doors	Self-adjusting case		
Case Handing	Field reversible without removing cover		
Strike	Curved lip non-handed. Custom lip lengths at 1/8" (3 mm) increments available		
Spindles	Breakable to prevent the lock case from unlocking or being damaged		

Einich Codo	Linich Description
Finish Code (Reference BHMA)	Finish Description
605	Polished Brass
606	Satin Brass
606M	Satin Brass – Matte
609	Antique Brass
609M	Antique Brass – Matte
613	Dark Bronze
618	Polished Nickel
619	Satin Nickel
620	Antique Nickel
620M	Antique Nickel – Matte
622	Matte Black Powder Coat
625	Polished Chrome
626	Satin Chrome
629	Polished Stainless Steel
630	Satin Stainless Steel
695	Dark Bronze Powder Coat
IXATC	Anthracite PVD Charcoal
IXABP	Absolute Black Polished PVD
ХB	InoxBrass PVD Polished Brass
IXBB	Brushed Bronze PVD
IXBLK	Black PVD
XBSB	Brushed Satin Black PVD
XC	InoxChrome PVD Stainless
IXCPN	Champagne PVD
IXPCPN	Polished Champagne PVD
XS	Satin Brass PVD
IXSLN	Satin London Night PVD
IXSRC	Satin Red Copper PVD
BBN	Brushed Blackened Nickel
BREZO	Brezo Bronze

Scan here to learn more about Our Finishes.



Cover photo features M520 Entrance Function with Frascio 900 Stella/SM decorative trim in 625/630 finish.

M500 Series Function Chart

Function Code Number	Illustration Outside ∢ ► Inside	Function/Description					
		Keyed Functions Without Deadbolt					
M504		Office and Inner Entry Lock Latchbolt retracted by lever from either side unless outside is made inoperative by key outside or by pushing button on edge of door. When outside is locked, latchbolt is retracted by key outside or by lever inside. Outside lever remains locked until other button on edge of door is pushed or unlocked by key. Auxiliary latch deadlocks latchbolt when door is closed.	F04				
M505		Classroom Lock Latchbolt retracted by lever from either side unless outside is locked by key. Unlocked from outside by key. Inside lever always free for immediate exit. Auxiliary latch deadlocks latchbolt when door is closed.					
M507		Storeroom Lock Latchbolt retracted by key outside or by lever inside. Outside lever always inoperative. Auxiliary latch deadlocks latchbolt when door is closed.					
M509	M509 Apartment Entrance Lock* Latchbolt retracted by lever from either side unless outside is locked by key from inside. When locked, latchbolt retracted by key outside or lever inside. Auxiliary latch deadlocks latchbolt when door is closed.						
M555	M555 Store Lock* Latchbolt retracted by lever from either side. Both levers are made inoperative by key from either side. Key use on either side unlocks both levers and retracts Latchbolt.						
M556		Office Lock with Unlocking Latchbolt retracted by lever from either side unless outside is made rigid by key outside or turnknob inside. Outside lever unlocked by key outside or turnknob. Rotating inside lever simultaneously retracts lactchbolt and unlocks outside lever. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always unlocked.					
M571		Classroom Security Lock* Latchbolt retracted by lever from either side unless outside is locked by key from either side. When in locked state, latchbolt retracted by key outside or lever inside. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always unlocked.					
		Keyed Functions With Deadbolt					
M521 Bedroom/Dormitory Lock Latchbolt retracted by lever from either side. Deadbolt extended or retracted by key outside or turnkn		Bedroom/Dormitory Lock Latchbolt retracted by lever from either side. Deadbolt extended or retracted by key outside or turnknob inside.	F21				
M520 (Standard)	Deadbolt thrown or retracted by 90 rotation of thumburn When locked key outside or lever inside retracts		F20				
M 514	W514 Store/Utility Room Lock* Latchbolt retracted by lever from either side. Deadbolt thrown or retracted by key from either side.						
M515	M515 Storeroom Lock with Deadbolt Latchbolt retracted by outside key or inside lever. Outside lever always fixed. Deadbolt operated by outside key or inside thumbturn. Operating inside lever retracts both deadbolt and latchbolt simultaneously. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for egress.						

*Caution: Double cylinder locks on residences and any door in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

M500 Series Function Chart (continued)

Function Code Number	Illustration Outside ◀ ► Inside					
		Keyed Functions With Deadbolt (continued)				
M513		Corridor Lock Latchbolt retracted by lever from either side. Deadbolt thrown or retracted by key outside or inside thumbturn. Throwing deadbolt locks outside lever. Turning inside lever simultaneously retracts deadbolt and latchbolt and unlocks outside lever.				
M557		Classroom Security Lock with Deadbolt* Latchbolt retracted by lever from either side. Deadbolt extended or retracted by key from either side. Extending deadbolt locks outside lever. Rotating inside lever simultaneously retracts deadbolt and latchbolt, and unlocks outside lever. Inside lever is always unlocked.				
M527		Privacy with Occupied Indicator, Cylinder, and Deadbolt Latchbolt retracted by lever from either side. Deadbolt extended or retracted by inside turnknob or cylinder outside. Extending deadbolt locks outside lever and displays locked red indicator. Rotating inside lever simultaneously retracts deadbolt and latchbolt and unlocks outside lever.				
		Non-Keyed Functions Without Deadbolt				
M522		Bath/Bedroom Privacy Lock Latchbolt retracted by lever from either side unless outside is locked by inside thumbturn. Turning inside lever or closing door unlocks outside lever. To unlock from outside, insert emergency turn (furnished) in access hole and rotate.	F22			
M523		Privacy with Coin Turn Outside Latchbolt operated by lever from either side unless outside is locked by turnknob inside or outside coin turn. Operting inside lever, closing door, or rotating turnknob unlocks outside lever.				
M501		Passage Latch Latchbolt retracted by lever from either side at all times.	F01			
M524		Single Dummy Fixed lever on one side.				
M525		Full Dummy Fixed lever on both sides.				
		Non-Keyed Functions With Deadbolt				
M519		Privacy with Deadbolt Latchbolt retracted by lever from either side. Deadbolt extended or retracted by turnknob inside. Extending deadbolt locks outside lever. Rotating inside lever simultaneously retracts deadbolt and lachbolt and unlocks outside lever. To unlock from outside, insert emergency key into outside privacy hole and rotate.	F19			
M526		Privacy with Deadbolt and Coin Turn Outside Latchbolt retracted by lever from either side. Deadbolt extended or retracted by inside turnknob or outside coin turn. Extending deadbolt locks outside lever. Rotating inside lever simultaneously retracts deadbolt and latchbolt and unlocks outside lever.				
M573		Communicating Passage with Blank Prep Outside No prepped holes or trim on outside of door. Latchbolt retracted by inside lever. Deadbolt thrown or retracted by turnknob inside. Turning inside lever simultaneously retracts deadbolt and latchbolt.				

M500 Series Function Chart (continued)

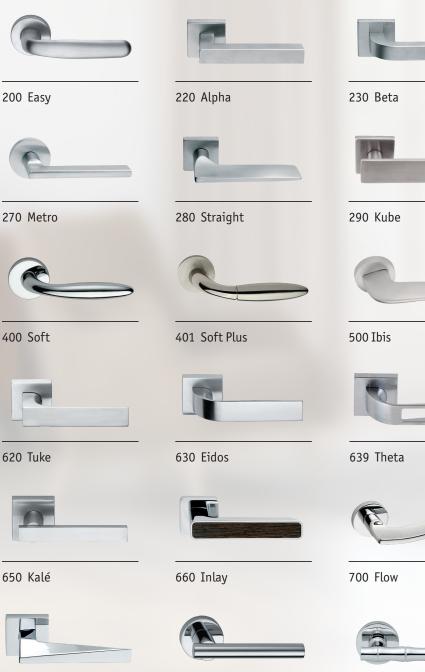
FunctionIllustrationCode NumberOutside ◄ ► Inside		Function/Description			
		Keyed and Non-Keyed Function Deadlocks			
M518		Cylinder Lock Deadbolt operated by key from one side. No trim on opposing side.			
M517		Cylinder and Thumbturn Lock Deadbolt operated by key outside or turnknob inside.	F17		
M516		Double Cylinder Lock* Deadbolt operated by key from either side.	F16		
M529		Classroom Deadlock Deadbolt extended or retracted by key from outside. Inside turnknob cylinder retracts deadbolt but can not extend it.	F29		
M530		Privacy Deadlock Deadbolt operated by coin release outside or turnknob inside.			
		Electrified Functions			
M507EU		Electrically Unlocked (Fail Secure) Outside lever unlocked by either 12 or 24 VDC (Specified) Latchbolt retracted by key outside or lever inside. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always unlocked.			
M507EL		Electrically Locked (Fail Safe) Outside lever continuously locked by either 12 or 24 VDC (Specified) Latchbolt retracted by key outside or lever inside. Switch or power failure allows outside lever to retract latchbolt. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always unlocked.			
M513EU		Electrically Unlocked (Fail Secure) Outside lever unlocked by 12 or 24 VDC (Specified). Deadbolt actuation by key or thumbturn from inside. Operating inside lever simultaneously retracts latchbolt and deadbolt. Inside lever is always unlocked.			
M587EU		Double Cylinder Electrically Unlocked (Fail Secure)* Both levers unlocked by 12 or 24 VDC (Specified). Latchbolt retracted by either key. Auxiliary latch deadlocks Latchbolt when door is closed.			

*Caution: Double cylinder locks on residences and any door in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Levers

Choose from hundreds of high-end decorative lever designs engineered using the highest quality materials and crafted with careful attention to detail.

Many more designs are available in our product catalog at www.FRInternational.com.



720 Sweep



110 Apollo





260 Cosmos

146 Star



300 Laguna



610 Pinax



640 Kuma



710 Aria



900 Stella

745 Modulo L 785 Bambu

www.FRInternational.com • 1011 3rd Avenue SW • Carmel, IN 46032 • Phone: 317-663-0030

Frascio



903 Trevi



1023 Ursa



1230 Solaris



1550 Chill+



5013 Urbano



5150 Gamma



5350 Raffaella



925 Join



1200 Bump



1500 Edge



1580 Rise



5019 Band



5200 Loft



5550 Laura



937 Corina



1210 Filoo



1520 Leaf



2250 Halley



5100 Lucia



5219 Misano



5700 Loredana



939 Allegra



1220 Anatra



1540 Chill



5000 Alessia



5130 Delta

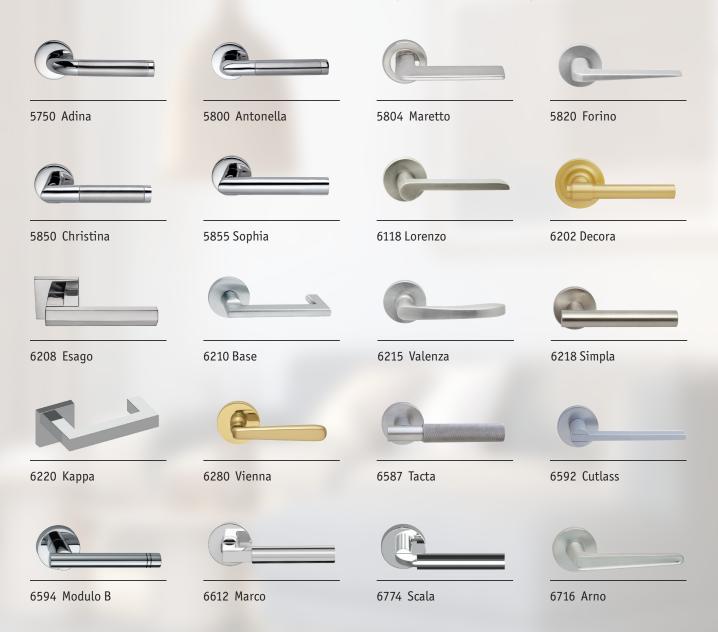


5300 Omega



5702 Stefano

View more lever designs in our product catalog at www.FRInternational.com



Commercial Trim Options

In addition to a full range of decorative trim available from FR International, the following Commercial Trim Options are offered in standard rose and plate mounting, suitable for commercial/institutional applications.





LSR



DSR



FSR

Rose Options





58 mm (2-1/4")

SMOR

Small Radiused

Square Rose

54 mm (2")

SM Small Rose 52 mm (2")

SM-58 Small Retrofit Rose 58 mm (2-1/4")

SMT **Small Traditional** Rose



SMG Small Deco Rose 52 mm (2")

Turnknob Design Options



M61 Round Smooth Rose

M61-Q Round

Square Rose

Accessibility



M61-O Round **Octagonal Rose**





RM61-Q Rectangular

M61-T Round

Traditional Rose



Ġ R71-Q Accessibility Square Rose

* CF Concealed Fastener option available on round roses

Accessibility

Emergency Release/Indicator Options

R71



Small Square Rose

SMQ

54 mm (2")

SMQC **Small Square Chamfered Rose** 54 mm (2")



SMQE **Small Rectangular** Rose 65 mm (2-1/2") x 102 mm (4")



H41



Ġ.

6

EMT

EMT-Q

OCCUPIED

EMTI with color indicator window

EMTI-VO with VAC/OCC indicator window

VAC



GVRO

occupancy

indicator

EMTI-Q with color indicator window

EMTI-Q-VO with VAC/OCC indicator window









SMO Small Octagonal Rose 60 mm (2-5/16")

Plate Options





11010 Fairfaix 248 x 58 mm (9-3/4 x 2-1/4")



Riviera

239 x 45 mm (9-3/8 x1-3/4")

12010 Pallas 248 x 58 mm (9-3/4 x 2-1/4")



Custom plate options also available.

M500 Series Option Designations

Optional Roses/Escutcheon Plates	Code
Small Rose (Default Rose)	SM
Small Traditional Rose	SMT
Small Square Rose	SMQ
Small Square Radiused Rose	SMQR
Fairfax Plate	11010
Pallas Plate	12010
Riviera Plate	18010
Optional Thumbturns	Code
Round Smooth Rose (Default Thumbturn)	M61
Round Smooth Rose, Concealed Fasteners	M61-CF
Round Traditional Rose	M61-T
Square Rose Thumbturn	M61-Q
Square Rose, Rectangular Thumbturn	RM61-0
Octagonal Rose	M61-0
Round Rose Small Thumbturn	C81
H41 Large ADA Thumbturn	H41
Oval Thumbturn	A51
R71 ADA Thumbturn	R71
Emergency Release/Indicator Options *Available as an option on the following functions: M523, M526	Code
Emergency Release	EMT
Emergency Release with Indicator Window	EMTI
Square Rose Type	SQR
Emergency Release with VAC/OCC indicator window	EMTI-V0
Occupied Indicator *Occupied Indicator available as an option on the following functions: M513, M520, M521, M556	Code
GVRO Indicator	GVRO
GVRO-Q Square Indicator	GVRO-Q
GVRO-E (Escutcheon Indicator for Fairfax, Pallas, Riviera plates)	GVR0-E
Misc Options	Code
Tactile Option for Lever Trim	Т
CPACP (cover plate for M573)	CPACP
Request to Exit	RX
Latchbolt Monitor	IX

All locks are sold Less Cylinder (L/C). Order required cylinders on a separate line item. Cylinder Options are available upon request.

Ordering Example

745 Modulo L lever on a small rose, in polished brass, privacy lock function with deadbolt and coin turn outside with ADA thumbturn and emergency release with indicator window options

Lever	Rose/Esc	Function	Finish	Handing	Option	Option
745	SM	M526	605	RHR	R71	EMTI

Frascio[®]

Pair M500 Mortise Series locks with Frascio T700 Series tubular latchsets to achieve design continuity throughout your project.

BOTH M500 LOCKS AND T700 LATCHSETS OFFER:

- The same wide variety of fully interchangeable lever designs and rose options from our world-renowned studio
- Contemporary style that flows seamlessly throughout any project.
- Fast, easy installation
- Concealed trim fasteners
- Full interchangeability of rose design options.
- Field-reversible handing
- Matching levers available for electronic access control trim and exit device adaptation
- Matching accessories available include door stops, sliding door locks and trim, door pulls, and more



Design updates have never been easier

When it's time to update or redesign, our exclusive modular product platform is designed to make it easy to update to new trim styles or finishes. Simply remove the lever and rose trim and replace them with a new style without the need to remove or replace the mechanical operating system.

This environmentally-friendly system is easy and saves you time and money.



FR International, LLC 1011 3rd Avenue S.W. Carmel, Indiana USA 46032 Tel: (317) 663-0030 Fax: (317) 663-0029 Toll Free: 1-800-238-9711 www.FRInternational.com

