

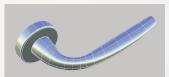
About Us

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.







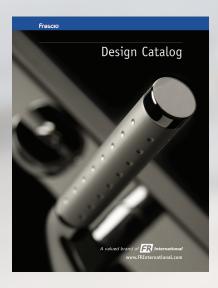




We utilize the latest CAD engineering tools to create designs and ensure reliable system operation. And, for those projects that require additional shapes and configurations, we are pleased to offer our **custom design services** and rapid prototype capability.

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

1 Deadbolt

1" (25mm) throw stainless steel deadbolt provides rugged security

2 Latchbolt

Full 3/4" (19mm) throw standard

3 Anti-Friction Tongue

Reduces wear and tear and ensures smooth engagement with strike

4 Deadlocking Auxiliary Latch

Non-handed deadlocking bar prevents latch tampering by blocking latch retraction when depressed

5 Stop Buttons

For flexible entrance function configuration

6 Armor Front

Adjustable for door bevel. Available in brass and stainless steel material

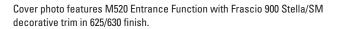
Backset Options

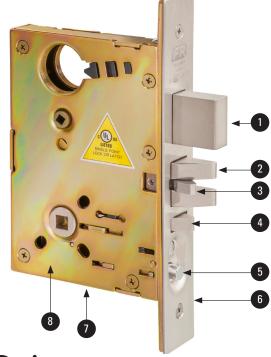
2-3/4" (70mm) standard, also available in 2-1/2" (63.5mm) for narrow backset applications, available in certain functions

8 Steel Components

Steel case and internal parts corrosion protected for longevity and smooth operation

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			







Finish Code					
Finish Code (Reference BHMA)					
605	Polished Brass				
606	Satin Brass				
606M	Matte Satin Brass				
609	Antique Brass				
609M	Antique Brass – Matte				
613	Oil-Rubbed Bronze				
618	Polished Nickel				
619	Satin Nickel				
620	Antique Nickel				
620M	Antique Nickel – Matte				
622	Matte Black				
IXBLK	PVD Black				
625	Polished Chrome				
626	Brushed Satin Chrome				
629	Polished Stainless Steel				
630	Brushed Satin Stainless Steel				
695	Bronze Powder Coated				
IXATC	Anthracite PVD Charcoal				
IXB	InoxBrass PVD Bright Brass				
IXS	InoxSatin PVD Satin Brass				
IXSLN	InoxSatin London Night				
IXC	InoxChrome PVD Stainless				
AM	Anti-Microbial Coating				

M500 Series Function Chart

Function Code Number	Function/Description	ANSI Number						
		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.						
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		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.						
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 turnknob inside.	F21					
M520 (Standard)		Entrance Lock Latchbolt retracted by lever from either side unless outside is locked by pushing button on edge of door. Deadbolt thrown or retracted by 90 rotation of thumbturn. When locked, key outside or lever inside retracts deadbolt and latchbolt simultaneously. Outside lever remains locked until other button on edge of door is pushed. Throwing deadbolt automatically locks outside lever. Auxiliary latch deadlocks latchbolt when door is closed.						
M514		Store/Utility Room Lock* Latchbolt retracted by lever from either side. Deadbolt thrown or retracted by key from either side.	F14					
M515	·1,	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	Function/Description					
		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	7 1 5	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 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.					
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.					
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		Communication 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)

Function Code Number	Illustration Outside ◀ ► 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.					
M516	Double Cylinder Lock* Deadbolt operated by key from either side.						
M529		Classroom Deadlock Deadbolt extended or retracted by key from outside. Inside turnknob cylinder retracts deadbolt but can not extend it.					
M571		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		Outside Lever Continuously Locked Outside lever unlocked by 12 or 24 VDC. Deadbolt operated by key outside or thumbturn inside. Inside lever is always unlocked. Operating inside lever simultaneously retracts deadbolt and latchbolt.					

^{*}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.

220 Alpha

280 Straight

401 Soft Plus

621 Queen

650 Kalé







270 Metro



400 Soft



620 Tuke



640 Kuma



710 Aria



110 Apollo



230 Beta



290 Kube



500 Ibis



630 Eidos



660 Inlay



745 Modulo L



146 Star



260 Cosmos



300 Laguna



610 Pinax



639 Theta



700 Flow



785 Bambu

720 Sweep



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.



Rose Options



SM Small Rose 52 mm (2")

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



SMT Small Traditional Rose 58 mm (2-1/4")



SMQ Small Square Rose 54 mm (2")



SMQR Small Radiused Square Rose 54 mm (2")



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

Turnknob Design Options



M61 Round Smooth Rose



M61-T Round Traditional Rose



M61-0 Round Octagonal Rose



M61-Q Round Square Rose



RM61-Q Rectangular Square Rose



H41 Accessibility



A51 Oval



R71 Accessibility



C81 Round

Emergency Release/Indicator Options



EMT



EMTIwith color indicator window



SQR



EMTI-VO with VAC/OCC indicator window



GVRO occupancy indicator

Plate Options



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



18010 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-Q
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	GVR0
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	T
CPACP (cover plate for M573)	CPACP
Request to Exit	RX
Latchbolt Monitor	LX

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

Ordering Example

 $745 \, \text{Modulo L}$ 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

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.



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