

by



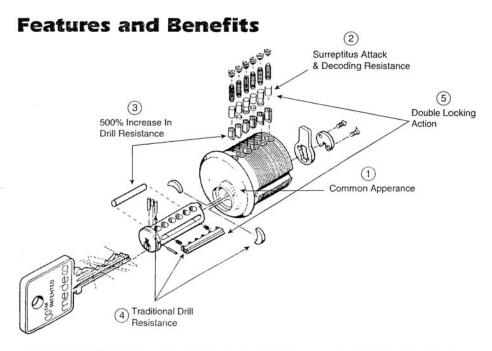
Medeco ARX High Security Locks "Extending the solution to sophisticated security threats"

What is ARX ?

Surreptitious attacks are continually evolving, and Medeco has always provided its customers with intelligent protection against advanced criminal assaults.

Our continual research into our customers' needs has led to the development of Medeco* ARX high security locks, a complete line of door hardware cylinders for customers that have sophisticated security threats. ARX stands for:

Attack Resistance X-tended



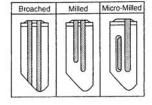
- 1. Common Appearance: Locks can be furnished blank, without the Medeco logo on the cylinder face, giving the lock an unrecognizable, common appearance.
- 2. Surreptitious Attack and Decoding Resistance: Over 150 botton pin variations plus 14 top pin variations work to confuse sophisticated intruders. Each pin has a unique combination of appearance, texture, weight, length and function.
- 3. 500% Increase in Drill Resistance: ARX* features two new drill resistant features. First, a carbide rod that runs the length of the plug, installed opposite the sidebar. Second, inside each ARX* tumbler pin is a steel insert which extends keyway drill time.
- 4. Traditional Drill Resistance: Standard Medeco* Biaxial* plugs already include steel ball bearings, drill pins and steel crescents which significantly increase drill attack time.
- 5. Double-Locking Action: In addition to the tumbler pin shear line, Medeco locks have a sidebar. These dual locking points require simultaneous elevation and rotation of tumbler pins before the cylinder will work.

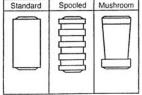
Randomization: The solution to Threats of Systematic Decoding

The ARX" system offers an incredible variety of tumbler pins. Each individual depth pin may be ringed, smooth, broached, and/or micro-milled, just to mention some of the variations.

ARX™ Tumbler Pin Variations

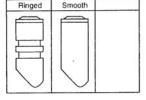
Bottom Pins: Sidebar and False Slot Variations

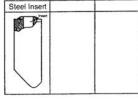




Top Pins: Shape and function

Bottom Pins: Texture Variations





All Pins: Steel inserts of varied size

Medeco pre-mixes tumbler pins having these variations. When a lock is pinned, the correct depth pin is pulled from these mixtures.

Depending on which particular pin is pulled from the mixture, the attributes (appearance, texture, weight, length and function) are purely random. This means that each

individual ARX[∞] lock contains its own random assortment of pin variations!

Randomization makes disassembly and reverse engineering of ARX* cylinders confusing and unproductive. Picking, probing and decoding are futile efforts.

Other Benefits of ARX"

- Q: Can I use ARX™ with existing Medeco` Biaxial™ locks?
- A: Yes, Medeco is 100% compatible with Medeco* Biaxial™ cylinders. Add ARX™ to an existing Biaxial™ system or create a new system utilizing both product lines. The keys are interchangeable between Biaxial™ and ARX™ cylinders.
- Q: What types of cylinders are available in ARX™?
- A: ARX is available in Medeco's complete door security product lines: 10 Series (Rim and mortise cylinders); 20 Series (key-in-knob and key-in-lever cylinders); 32 Series (interchangeable cores); etc.
- Q: How is the integrity of the ARX™ pin mixture insured?
- A:: ARX's random pin mixture is stored in a limited access room within the secure Medeco facility. A record of all entries allows Medeco to insure the integrity of the random mixtures and all ARX™ product that is keyed or master-keyed at the factory.
- Q: What about key duplication?
- A: ARX™ is available in all current Medeco* Biaxial™ keyways. You get the excellent, patented key control you've come to expect from Medeco.
- Q: How do I pin ARX™ locks in the field?
- A: A special pin kit has been created for ARX™ users. This pin kit includes a random assortment of the ARX™ pins used at the factory.

ARX Questions and Answers Fact Sheet Government Customers (6/15/94)

1. Why did Medeco make the ARX product line?

ARX was developed to meet the unique needs of our most sophisticated customers (Government agencies, locksmiths that service the government, prime government contractors and vendors, financial institutions, high rise office buildings, etc.).

2. What does ARX stand for:

Attack Resistance X-tended

ARX uses the same angled cuts and fore and aft pins as our Biaxial products, however we have added a few new features that make it more attack resistant.

3. What gives ARX more attack resistance?

ARX increases attack resistance in three ways.

- 1. A carbide rod inserted in the plug gives it more drill resistance.
- 2. Rings, grooves, millings, micro-millings and broachings on the pins increase pick resistance.
- In addition to the 36 types of bottom pins in Biaxial, ARX has over 150 random pin variation
 combinations on its bottom pins. These random variations increases ARX's resistance to stealth
 attacks or decoding.

4. When will ARX be available?

ARX locks will be available for shipment in July 1994.

Can anyone order ARX?

Yes, any customer with a sophisticated security need should specify ARX.

6. How much does ARX cost?

ARX is listed in the Government Net Price Book at \$3.08 more than our current Biaxial locks. For ARX cylinders less logos (blind face), add \$4.08 to the corresponding Biaxial lock's price.

Bottom Pin Styles

ARX BOTTOM Part Number TP-F47-XX	Part Number TP-F46-XX	MICRO-MILL Part Number	MILLED BOTTOM PINS Part Number Style Milled Milled	BROACHED B
ARX BOTTOM PIN SYSTEM (Depths 1-6) for Master Keyed locks False Slot	ARX BOTTOM PIN SYSTEM (Depths 1-6) for Non-Master Keyed locks False Slot Wi Part Number Style Broached Mill Micro L R CL CR Rii TP-F46-XX Mixed V V V V V V V	MICRO-MILL BOTTOM PINS (<i>Note: Not to be used in Master Keyed locks</i>) False Slot With With Part Number Style Depths L R CL CR Rings Ring Micro-Mill 4-6 $\sqrt{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{\frac{1}{\sqrt{1}}}}}}}}}}$	Style Milled Milled	BROACHED BOTTOM PINS Part Number Style Broached Broached
EM (Depths 1-6) f	EM (Depths 1-6) f Broached Mill √	Depths 4-6 4-6	<u>Depths</u> 4-6 4-6	<u>Depths</u> 1-6 2-6
for Master Ke	for Non-Mast	o be used in M False Slot L R C∟ CR √ √ √	False Slot L R CL CR	False Slot L R CL CR V V V
~	False Slot V L B CL CR E	Master Keyed With R Rings	With R Rings √	With R Rings
With Without Rings Rings	cks With Without Rings Rings	ocks) Without Rings √	Without Rings E	Without Rings E
Fore	Fore	Fore Aft	Fore Aft	Fore Aft
<u>∆ft</u>	<u>Aft</u>	Total Pins 16	Total Pins 16	Total Pins 48

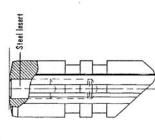
Note: ARX Micro-milled or Milled pins can not be used with Interchangeable Core cylinders in clutch positions 3 and 4. Medeco recommends that Standard Biaxial pins be used with Interchangable Core cylinders in clutch positions 3 and 4.

Top Pin Styles

Hardness Rc 65 Rc 65 Rc 65 Rc 65	Hardness	Hardness	eyed locks Hardness MIXED MIXED MIXED
Material STEEL STEEL STEEL BRASS STEEL BRASS	Material BRASS BRASS BRASS BRASS	Material BRASS BRASS BRASS BRASS BRASS	eyed and Master K MIXED MIXED MIXED MIXED MIXED MIXED MIXED MIXED
Style	Style MUSHROOM TOP 1 MUSHROOM TOP 2 MUSHROOM TOP 3 MUSHROOM TOP 3	Style No SPOOLED TOP 3 SPOOLED TOP 3 SPOOLED TOP 5 SPOOLED TOP 5 SPOOLED TOP 6	ARX TOP PIN SYSTEM for Non-Master Keyed and Master Keyed locks Part Number Style No Material Hardne TP-F11-1A TOP PIN 2 MIXED MIXED TP-F11-3A TOP PIN 3 MIXED MIXED TP-F11-4A TOP PIN 4 MIXED MIXED TP-F11-5A TOP PIN 5 MIXED MIXED TP-F11-6A TOP PIN 6 MIXED MIXED
STANDARD TOP PINS Part Number Sty STI STI STI STI STI STI STI STI	MUSHROOM TOP PINS Part Number Style MUSI MUSI MUSI MUSI MUSI	SPOOLED TOP PINS Part Number St S	ARX TOP PIN SYS' Part Number TP-F11-1A TP-F11-2A TP-F11-4A TP-F11-5A

ARX will provide two additional forms of drill protection:

1. Steel Pin Insert within each bottom pin:



2. Carbide Rod Insert opposite of the sidebar within the plug (full length):

