MODULAR INTERCHANGEABLE CORE SYSTEM

CHOICE™
Mortise and rim cylinder housings are a component of Arrow's total interchangeable core offering. These housings operate in either Arrow or competitive manufacturer's products and are compatible with cores manufactured by a wide range of companies. Mortise housings feature "screw on cams," ideal for flexible inventory and simple field service.

**MORTISE CYLINDER HOUSINGS:**

**Body:** Brass, 1-5/32" diameter  
**Finishes:** 3, 4, 10, 10B, 26, 26D  
**Furnished with:** Cam (specify) and cylinder collar 16-113A, less core.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>LENGTH &quot;A&quot;</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>C16CR-16</td>
<td>1 1/8&quot;</td>
<td>6 pin only</td>
</tr>
<tr>
<td>C16CR-16D</td>
<td>1 1/8&quot;</td>
<td>6 pin only, drill resistant</td>
</tr>
<tr>
<td>C16CR-16T</td>
<td>1 1/8&quot;</td>
<td>6 pin only, tapered</td>
</tr>
<tr>
<td>C16CR-16TD</td>
<td>1 1/8&quot;</td>
<td>6 pin only, tapered, drill resistant</td>
</tr>
<tr>
<td>C16CR-27</td>
<td>1 1/4&quot;</td>
<td>*6 or 7 pin</td>
</tr>
<tr>
<td>C16CR-27D</td>
<td>1 1/4&quot;</td>
<td>*6 or 7 pin, drill resistant</td>
</tr>
<tr>
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<tr>
<td>C16CR-27TD</td>
<td>1 1/4&quot;</td>
<td>*6 or 7 pin, tapered, drill resistant</td>
</tr>
<tr>
<td>C16CR-26</td>
<td>1 5/16&quot;</td>
<td>6 pin only, bolted function</td>
</tr>
<tr>
<td>C16CR-26D</td>
<td>1 5/16&quot;</td>
<td>6 pin only, bolted function, drill resistant</td>
</tr>
</tbody>
</table>

**RIM CYLINDER HOUSINGS:**  
**Body:** Brass 1-5/32" diameter  
**Finishes:** 3, 4, 10, 10B, 26, 26D  
**Furnished with:** Blackplate, cylinder collar 16RC-113, 2 screws, 1-3/4" door tailpiece #16RCR-44, less core.

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<td>6 pin only</td>
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<tr>
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<tr>
<td>C16CR-16D</td>
<td>6 pin only, drill resistant</td>
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<tr>
<td>C16CR-27D</td>
<td>6 or 7 pin, drill resistant</td>
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</table>

**CYLINDER COLLARS:**  
I.C. Mortise Cylinder Collar 16-113A (Standard for 16CR-16, 16CR-27, 16CRH-26)  
I.C. Rim Cylinder Collar 16RC-113 (Standard for C16CR-16, C16CR-27)

**SPACER RINGS:**

**MORTISE HOUSINGS–MISC. PARTS:**

**Part No.** | **Description**  
|--------------|---------------|
| A) 3-48 x 3/16 | Cam Set Crew  
| B) C16CR-122 | Washer  
| C) Cam | Specify  
| D) C16CR-121A-1 | Adapter Assembly–6 pin  
| E) C16CR-121A | Adapter Assembly–7 pin  

**RIM HOUSINGS–MISC. PARTS:**

**Part No.** | **Description**  
|--------------|---------------|
| A) 16CR-121A-1 | Cam Assembly–6 pin  
| B) C16CR-121A | Cam Assembly–7 pin  
| C) 16CR-44 | Cam Bar (tailpiece)  
| D) 16CR-125 | Curved Spring Washer  
| E) 961CR-117 | Yoke–Cam Bar  
| F) 4-40x1/4 | Self-Tapping Screw

**Note:** With the exception of hotel housing, all cylinder housings utilize screw on cams. Please specify cam required, if no cam is specified, Arrow will supply 001 cam. Cam is field changeable.

*These housings are preset at the factory to accept 6 pin cores. Simple change of adapter assembly for 7 pin cores. This is required for Plus/HS cores only.

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**Ordering example:** 16CR-27Dx001–6 or 7 pin housing, 001 cam shown

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**CAM APPLICATION**

001: 12, 22, 23, 24, 32(o/s), 33  
002: 11, 13, 16, 19, 20, 31, 34, 41, 42, 44  
003: 32(o/s)  
004: N Series, Exit Device, Alarms  
005: 17  
006: Schlage  
AR18: Adams Rite
Incorporating the main elements of the interchangeable core concept, ChoICe™ offers a variety of features and functions, making it the ideal core for a wide range of users. Patented technology, precision manufacturing and unmatched flexibility are value added components never before seen in interchangeable core. ChoICe™ Base is our standard level of product. Available in Arrow and competitive keyways, Base is capable of all levels of keying for new or existing key systems. With an option to have drill resistant pins in the front, plug and shell, ChoICe™ Base offers convenience as well as a higher level of security.

<table>
<thead>
<tr>
<th>CHOICE BASE</th>
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<tbody>
<tr>
<td>CAT NO.</td>
<td>Description</td>
</tr>
<tr>
<td>C6S</td>
<td>6 pin core, combined with two cut change keys</td>
</tr>
<tr>
<td>C7S</td>
<td>7 pin core, combined with two cut change keys</td>
</tr>
<tr>
<td>C6D</td>
<td>6 pin core, drill resistant, combined with two cut change keys</td>
</tr>
<tr>
<td>C7D</td>
<td>7 pin core, drill resistant, combined with two cut change keys</td>
</tr>
</tbody>
</table>

**Note:**
- Arrow IC or ID keyway standard
- For uncombined cores – suffix “UC” to catalog number (ex: C6S-UCX keyway)

| CHOICE BASE KEYS: |

**Arrow keyways:** (IC, ID standard), and restricted keyways (consult factory for availability)  
**Competitive keyways:** A, B, C, D, E, F, G, H, I, J, K, L, M, Q.

**Part Numbers:**  
CH x Keyway–6 or 7 pin blank,  
CHP x Keyway–6 or 7 pin blank, plain bow.

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**CHOICE BASE COMPONENTS:**
- Modular Interchangeable Core System,  
U.S. Patent #6,079,240  
- ChoICe™ 6 pin and drill resistant shown  
- Also available 7 pin

- Plug – C6S-102  
- Locking Tab – C6S-115  
- Shell – C6S-101  
- Bottom Pin – Standard  
- Spray  
- Top Pin – Standard  
- Bottom Pin – C7A-112  
- Front – C7A-112  

*Note: Pins inserted at factory only.

- M. Plug assembly with hardened pins – C6D-102A  
- N. Shell assembly with hardened pins – C6D-101A  
- O. Stainless bottom pin, for 1st 2 chambers  
- P. Stainless top pin, for 1st 2 chambers  
- Q. Hardened pin and front assembly – C7A-112A

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**Part Numbers:**  
CH x Keyway–6 or 7 pin blank,  
CHP x Keyway–6 or 7 pin blank, plain bow.

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**Consult service manual for 7 pin cores**
Incorporating the ChoICe™ technology, the Flex concept combines flexibility and integrity. The system employs a unique core security feature and patented key design. The security feature being a pin assembly which runs through the center of the keyway preventing standard IC keys from entering the core. Only the patented Flex key can operate these cores. Flexcore can be used with standard cores to form a dual level security system. Making it ideal for schools, universities, hospitals, sports facilities, and institutions where key control is an issue. Adding drill resistant pins in the front, plug and shell increases the level of security offered by ChoICe™ Flex.

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<tr>
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<tbody>
<tr>
<td>C6FS</td>
<td>6 pin combined core, with two cut change keys</td>
</tr>
<tr>
<td>C7FS</td>
<td>7 pin combined core, with two cut change keys</td>
</tr>
<tr>
<td>C6FD</td>
<td>6 pin combined core, drill resistant, with two cut change keys</td>
</tr>
<tr>
<td>C7FD</td>
<td>7 pin combined core, drill resistant, with two cut change keys</td>
</tr>
</tbody>
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Note: For uncombined cores – suffix “UC” to catalog number (no keys supplied)

EX: C6FN-UCX Keyway
Flex keyways: 51, 52, 53, 54, 61, 64, 81, 83, 84, 91
(All keyways are factory assigned)
Flex keyways available with ChoICe™ Base.

**DUALLEVEL MASTERKEYING CAPABILITIES:**
The unique pin assembly runs through the center of the core keyway preventing standard IC core keys from entering the lock cylinder. Only the patented Flexcore key can operate locks with the Flexcore cylinder. Flexcore can be used with standard interchangeable cores to form a dual level security system.

**CHOICE FLEX COMPONENTS:**
- Modular Interchangeable Core System.
- US Patent #5,776,712, #6,079,240
- ChoICe™ Flex 6 pin and drill resistant shown
- Also available 7 pin

B. Locking tab  
C. Shell  
D. Bottom pin – standard  
E. Top pin – standard  
F. Spring  
G. Cap Front  
H. Plug – C7A-112  
I. Plug  
J. Shell washer  
K. Flex Pin  
L. Pin holder washer  
M. Hardened pin and front assy  
N. Shell assy, hardened pin  
O. Stainless bottom pin, for 1st 2 chambers  
P. Stainless top pin, for 1st 2 chambers  
Q. Hardened pin and shell assy  
R. Stainless bottom pin  
S. Stainless top pin  
T. Plug assy, hardened pins  
U. Shell assy, hardened pins  
V. Stainless bottom pin  
W. Stainless top pin  
X. Shell assy, hardened pin  
Y. Shell assy, hardened pin

Note: Flex components are not available. Core sold as complete assembly only.

**Part Numbers:**
CHX x Keyway – 6 or 7 pin blank, with hole through blade of key.
CH x Keyway – 6 or 7 pin blank, without hole.
Another patented product in the ChoICe™ family of cores. Utilizing the ChoICe™ design concept, Plus cores contain a mechanism built into the plug and shell that works in conjunction with a special groove machined in the key. The patented Plus key will operate both cores with and without the mechanism, however, a non-Plus key will not operate a Plus core. The addition of drill resistant pins in the front, plug and shell supplements the patented system and offers resistance to physical attack. Plus is perfect for facilities looking to expand on an existing key system, increase the level of protection and control, while at the same time, maintaining the integrity of the records and keyways from an existing phase(s).

**CHOICE PLUS:**

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<tr>
<td>CP6S</td>
<td>6 pin core, combined, with two cut change keys</td>
</tr>
<tr>
<td>CP7S</td>
<td>7 pin core, combined, with two cut change keys</td>
</tr>
<tr>
<td>CP6D</td>
<td>6 pin core, drill resistant, combined, with two cut change keys</td>
</tr>
<tr>
<td>CP7D</td>
<td>7 pin core, drill resistant, combined, with two cut change keys</td>
</tr>
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</table>

Note: Arrow IC or ID keyway Standard

For uncombined cores: suffix “UC” to catalog number

Available in Competitive keyways: AB, BB, CB, DB, EB, FR, GB, HB, IB, KB, LB, MB, QB.

**CHOICE PLUS KEYS:**

Arrow keyways: IC, ID (standard), and restricted keyways—consult factory for availability.


Consult service manual for 7 pin cores

**CHOICE PLUS COMPONENTS:**

- Modular Interchangeable Core System
- ChoICe™ Plus 6 pin and drill resistant shown
- Also available 7 pin

- B. Locking tab – C6-115
- D. Bottom pin – standard
- E. Tip pin – standard
- F. Spring
- G. Cap
- H. Retaining ring – C7-127
- I. Front – C7A-112
- J. Stainless bottom pin, for 1st 2 chambers
- K. Hardened pin and front assy – C7A-112A
- L. Stainless top pin, for 1st 2 chambers
- M. Hardened pin and front assy – C7A-112A
- N. Locking pin
- O. Locking spring
- P. Plus plug assembly
- Q. Plus plug assy, hardened pins – CP6D-102A
- R. Plus shell assy, hardened pins – CP6D-101A
- S. Plus shell – CP6-101
- T. Plus plug
- U. Plus plug assembly

* Pins inserted at factory.
** Parts not sold separately.
Offering the highest degree of key control and security, ChoICe™ HS and HSD blend design with function. The design process allows for a second locking mechanism to be incorporated, the side bar. When hardened pins are added, the core meets and exceeds the requirements of UL437 for pick and drill resistance.

**CHOICE HS/HSD:**

<table>
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<tr>
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<tbody>
<tr>
<td>CH7S</td>
<td>7 pin core, combined, with 2 cut change keys</td>
</tr>
<tr>
<td>CH7D</td>
<td>7 pin core, drill resistant, combined, with 2 cut change keys</td>
</tr>
</tbody>
</table>

Note: For uncombined cores: Suffix “UC” to catalog number (ex: CH7S-UC plus assigned sidebar code). For unassembled cores: Suffix “LS” to catalog number (ex: CH7S-UC50—you will receive an uncombined core, less sidebar. Combined cores are not supplied less sidebar.

**CHOICE HS/HSD KEYS:**

| Arrow keyways: 40 | Part Numbers: CH7S x Keyway x Sidebar–ID. |

**CHOICE HS/HSD COMPONENTS:**

- Modular Interchangeable Core System, U.S. Patent #6,079,240, one Patent Pending
- ChoICe™ HS 7 pin and ChoICe™ HSD 7 pin shown
- Available 7 pin only, standard or drill resistant

**Parts sold as complete assembly only**
Because of the location of the ChoCe™ Plus activating mechanism, and the HS sidebar, all tailpieces require one shorter leg. Old style tailpieces will operate other levels of ChoCe™.

**S SERIES KNOB:**
For all functions except 15 and 19 functions

**S SERIES KNOB:**
For 19 function only

**M, W, Q SERIES LEVER HANDLE:**
For all functions except 15 and 19 functions

**Q SERIES LEVER HANDLE:**
For 19 function only, and all OverDrive functions.

**M SERIES KNOB:**

**H SERIES KNOB:**
For all functions except 15 and 19 functions

**H SERIES KNOB:**
For 19 function only

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**DISASSEMBLY AND ASSEMBLY OF CORE**

**DISASSEMBLE:**
1. Remove retaining ring from back of core.
2. Plug will slide out from shell.
3. Slide front plate off (down).
4. Remove locking tab from shell.

**ASSEMBLY:**
Follow disassembly directions in reverse.

Tip: Hold shell upside down. From front side of shell, insert locking tab through window of shell, fingers of locking tab will then engage with slots on shell.

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**Note:** When replacing retaining ring, flat should be on bottom, with opening facing toward locking tab.
ARROW™ SERVICE TOOLS

**TOOL:**

**USES:**

- **Capping Block**: This is used to align the core pin chambers for the Hand Capping Pin.
- **Core Capping Press**: Typically used for high volume applications. Will cap up to 7 pin chambers at one time.
- **Cylinder & Key Stamping Fixture**: This is used to stamp keys and cores. Cores can be stamped either on the face or on the side.
- **Decoding Block**: “The Block” offers an efficient method for decoding interchangeable core cylinders to determine the control key code or to find a lost operating key for a core.
- **Dumping Block**: A specialized block used to dump and retain pins and springs from various cores.
- **Ejector Pin**: The Ejector Pin is used to remove unwanted pins from each pin chamber.
- **Hand Capping Pin**: This is used to cap one pin chamber at a time.
- **I.C. Keying Kit**: This kit contains all of the pins and springs needed to combine a core. A different kit is needed for each I.C. system, i.e., (A/2, A/3 or A/4).
- **Key Combinator**: This is used to cut keys by code or additional keys.
- **Key Gauge**: This is used to find the cuts on a key in order to duplicate it.
- **Martise Cylinder Installation Tool**: This is used as a handle to install mortise cylinder cores into a mortise lock housing.
- **Punch Machine**: This is used for cutting interchangeable core keys, with a vice change for cutting ChoIC™ flex keys.

**MISCELLANEOUS SERVICE ITEMS:**

- **Part No.**
- **Description**
  - RB100-RB109: Bottom Pins
  - RM102-RM119: Top Pins
  - 100CR-107: Springs
  - 100CR-111: Barrel Caps
  - *SSRB100-109: Stainless Steel Bottom Pins
  - *SSRM102-119: Stainless Steel Top Pins

* Suggested for use in first two chambers of drill resistant cores

**CHOICE FACTS:**

- Cores are combined (pinned) in the same manner as most Best® style cores.
- Pin stack totals for standard A2 system remains 23.
- Best® style key punch machine and pins will operate with ChoIC™ keys and cores.
- ChoIC™ cores will operate in IC products of other manufacturers (Tailpiece modification will be required for Plus and HS/HSD).
- Keyways for Base and Plus levels are compatible with similar existing keyways.

**NOTE:** Most tools are also available from A-1 Manufacturing company.
For more information regarding Arrow’s complete architectural product offering, contact your Authorized Distributor or Sales Representative.

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