

TOOL
presents...

SOME WICKED COOL SHIT ABOUT
HANDCUFFS



INCLUDING THE NEW
REVELATION OF THE
"ULTIMATE"
HANDCUFF KEY

featuring ...
Deviant Ollam
Dave Ploshay
Dr. Tran
and more!

Our German Friends

Ray from SSDeV



Our German Friends

Ray's Collection



Our German Friends

Dutch Police LIPS Cuffs



Our German Friends

Dutch Police LIPS Key



Our German Friends

Dutch Police LIPS Key



Our German Friends

Dutch Police LIPS Key



Our Dutch Friends

Dutch Police LIPS Cuffs



The Deal with Heavy Handcuffs



Heavy Duty Handcuffs

Clejuso Model 13s



Heavy Duty Handcuffs

Clejuso Model 13s



Heavy Duty Handcuffs

Clejuso Model 13s



Heavy Duty Handcuffs

Clejuso Model 13s



Heavy Duty Handcuffs

Clejuso Model 13s



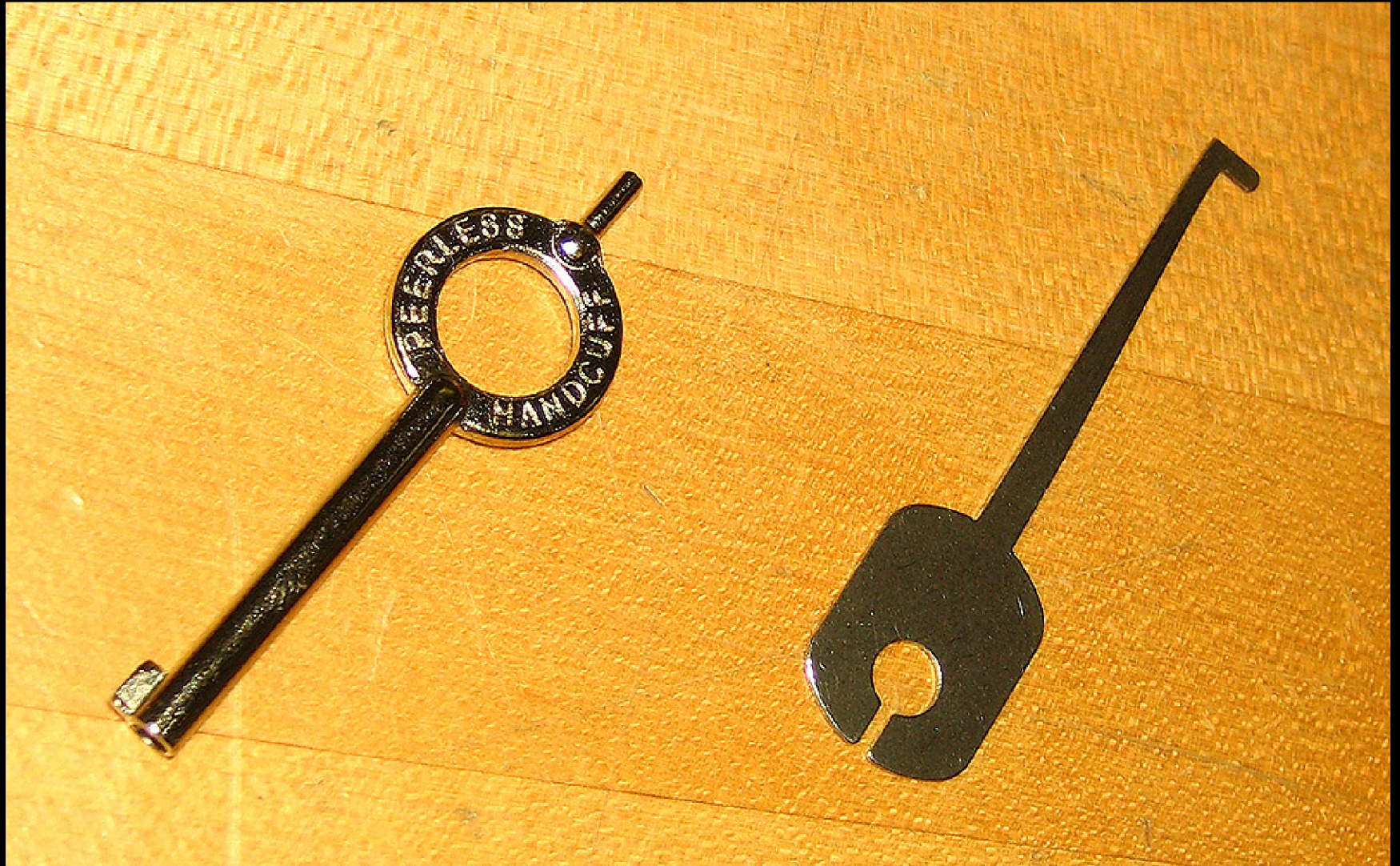
Heavy Duty Handcuffs

Clejuso Model 13s



Heavy Duty Handcuffs

Clejuso Model 13s



Heavy Duty Handcuffs

Handcuff Escape Demo



A Look at “Typical” Handcuffs



Typical Handcuffs

Simple Design



Typical Handcuffs

Few Moving Parts



Typical Handcuffs

Ratchet Arm



Typical Handcuffs

Pawl



Typical Handcuffs

Spring



Typical Handcuffs

Double Lock Bar



Typical Handcuffs

That's all, people



Typical Handcuffs

Videos explain further



[Opening & Closing](#)

[Shimming](#)

[Double Lock](#)

[Rendermans's Escape](#)

Escaping Handcuffs

More Escape Demos



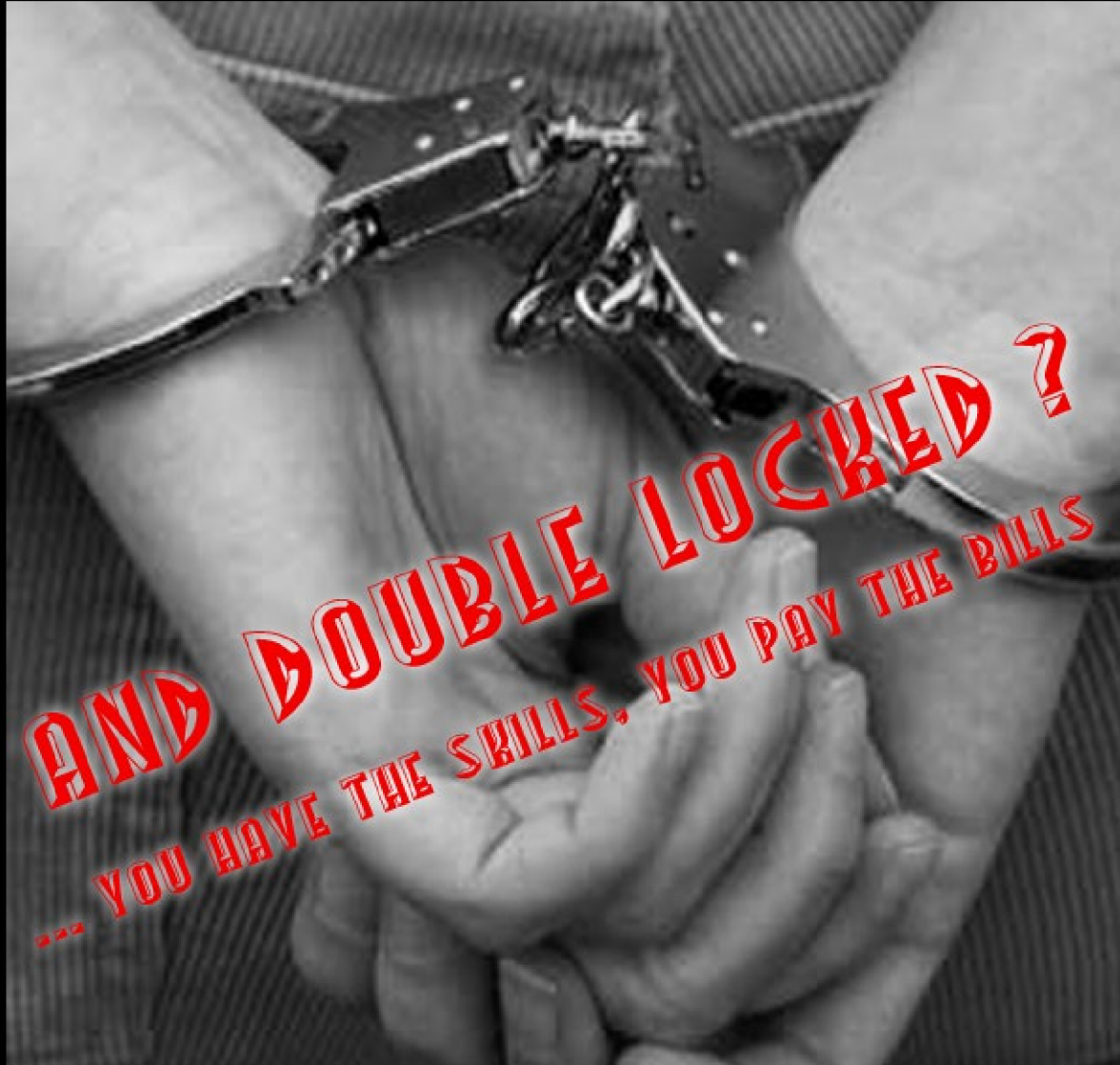
Escaping Handcuffs

More Escape Demos



Escaping Handcuffs

More Escape Demos



Better Quality “Typical” Cuffs



Better Quality Cuffs

Tighter Tolerances – Peerless, Smith & Wesson



Higher Security in “Typical” Cuffs



Better Quality Cuffs

Multiple Pawls – Hiatts, ASP, Chicago



Better Quality Cuffs

Multiple Pawls – Kyoung Chang



Better Quality Cuffs

Multiple Pawls and Blocking Blades - Yuil



Better Quality Cuffs

Multiple Pawls and Blocking Blades - Yuil



Better Quality Cuffs

Multiple Pawls and Blocking Blades - Yuil



Better Quality Cuffs

Multiple Pawls and Blocking Blades - Yuil



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Multiple Pawls and Blocking Blades - Yuil



Better Quality Cuffs

Multiple Pawls and Blocking Blades - Yuil



Better Quality Cuffs

Multiple Pawls and Blocking Blades - Yuil

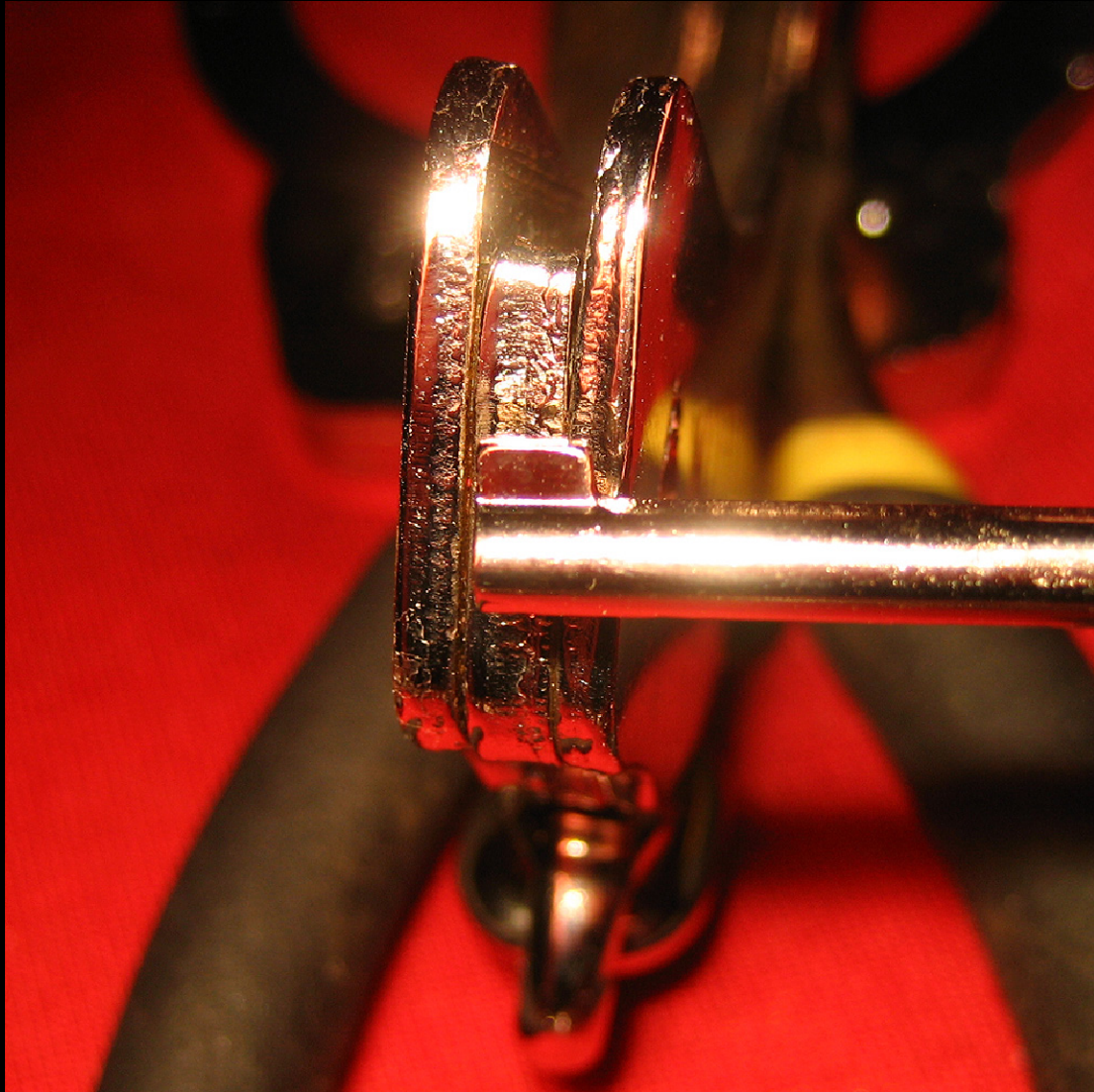


Variations in Design Cause Trouble



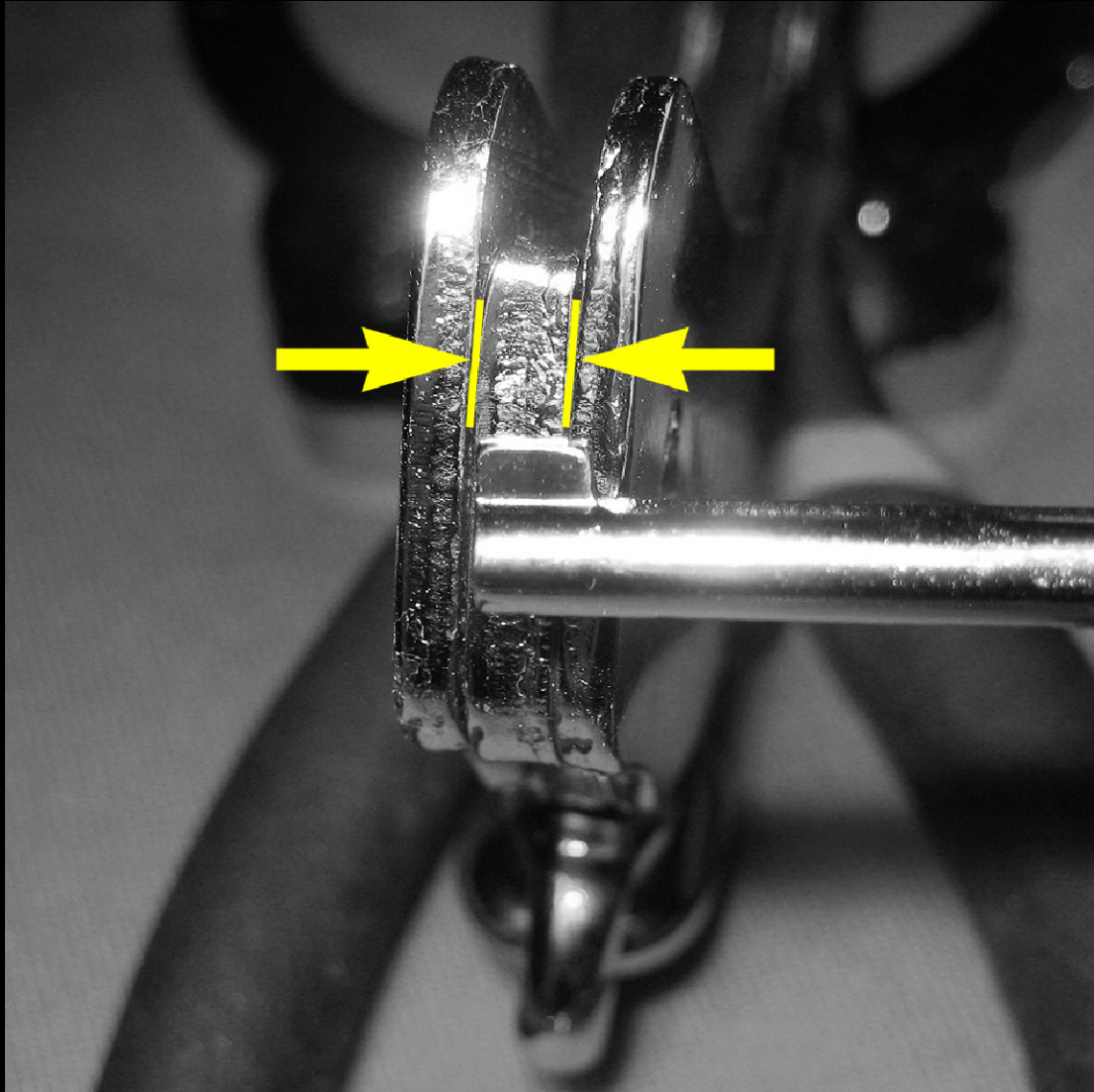
Consider Valor Brand Handcuffs

Body is very narrow...



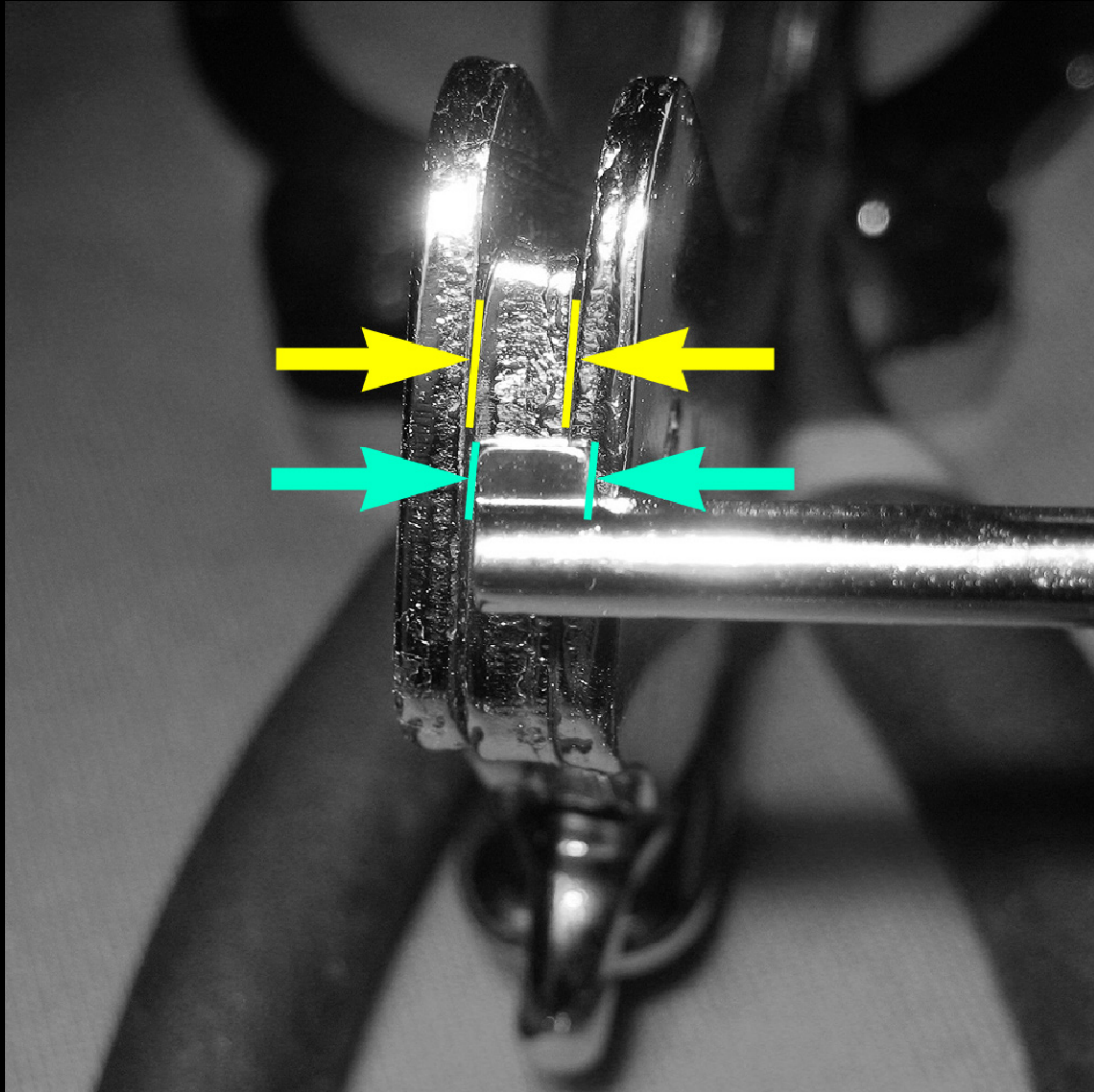
Consider Valor Brand Handcuffs

Body is very narrow...



Consider Valor Brand Handcuffs

Body is very narrow... Typical keys are too wide at the blade



Narrow Handcuffs ?

One Proposed Solution... Narrower Keys



Handcuff Keys - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.handcuffwarehouse.com/handcuffkeys1.html

Handcuff Keys

The Ultimate Source for Restraints

- ASP Handcuffs
- Chicago Handcuff Company
- The Grip Restraint System
- Hiatt Handcuffs
- Humane Restraint
- Peerless Handcuff Company
- Posey Restraints
- Ripp Restraints
- Safariland Handcuffs
- Smith & Wesson Handcuffs
- Thompson Handcuffs (Hiatt-Thompson)
- Winchester Handcuffs
- International Handcuffs
- High Security Handcuffs
- Leg Irons
- Restraint/Belly Chains
- Gang Chains
- Thumbcuffs
- Disposable Restraints
- Handcuff Keys
- Handcuff Cases
- Zak Tool
- Accessories
- Training/Books/Videos
- Gold Handcuffs
- Darby Style Restraints
- Discontinued Items
- What's New

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Handcuff Keys

We stock Smith & Wesson handcuff keys, Peerless handcuff keys, Hiatt handcuff keys, ASP handcuff Keys, Safariland handcuff Keys, and much more. We stock handcuff keys for all of the handcuffs we sell.



Results Per Page: [14](#) [24](#) [View All 66](#)

	American Universal Handcuff Key Our price: \$0.77		Smith & Wesson Standard Handcuff Key Our price: \$1.50
	Smith & Wesson Model 104K Max Security Handcuff Key Our price: \$3.39		Peerless Standard Handcuff Key Our price: \$1.25
	Peerless Oversized Handcuff Key Our price: \$0.99		Hiatts Model SK5 Swivel Handcuff Key Our price: \$5.80

http://www.handcuffwarehouse.com/American-Handcuff-Key.html

32° F | 86%

Narrow Handcuffs ?

One Proposed Solution... Narrower Keys

Handcuff Keys - Mozilla Firefox

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http://www.handcuffwarehouse.com/handcuffkeys1.html

Handcuff Keys

The Ultimate Source for Restraints

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Handcuff Keys

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[View All 56](#)

American Universal Handcuff Key

Our price: \$0.77

[Handcuff Key](#)
Our price: \$3.39

[Peerless Oversized Handcuff Key](#)
Our price: \$0.99

[Hiatt's Model SK5 Swivel Handcuff Key](#)
Our price: \$5.80

[Hiatt Deluxe Handcuff](#)

[Hiatt Model SK 2](#)

ASP Handcuffs
Chicago Handcuff Company
The Grip Restraint System
Hiatt Handcuffs
Humane Restraint
Peerless Handcuff Company
Pose
Ripp
Safar
Smith
Thon
(Hiatt
Wind
Inter
High
Leg I
Rest
Gang
Thun
Disposable Restraints
Handcuff Keys
Handcuff Cases
Zak Tool
Accessories
Training/Books/Videos
Gold Handcuffs
Darby Style Restraints
Discontinued Items
What's New
To Search, View & Purchase

http://www.handcuffwarehouse.com/American-Handcuff-Key.html

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But, Remember the Kyoung Chang?

Multiple Pawls, Typical Keys are Too Narrow



So, We Had an Idea ...



We Had An Idea...

Last T000L New Jersey meeting of 2009



We Had An Idea...

Last T000L New Jersey meeting of 2009



We Had An Idea...

Last T000L New Jersey meeting of 2009



We Had An Idea...

We had a lot of oddball keys



We Had An Idea...

But we also had a lot of “standard” keys



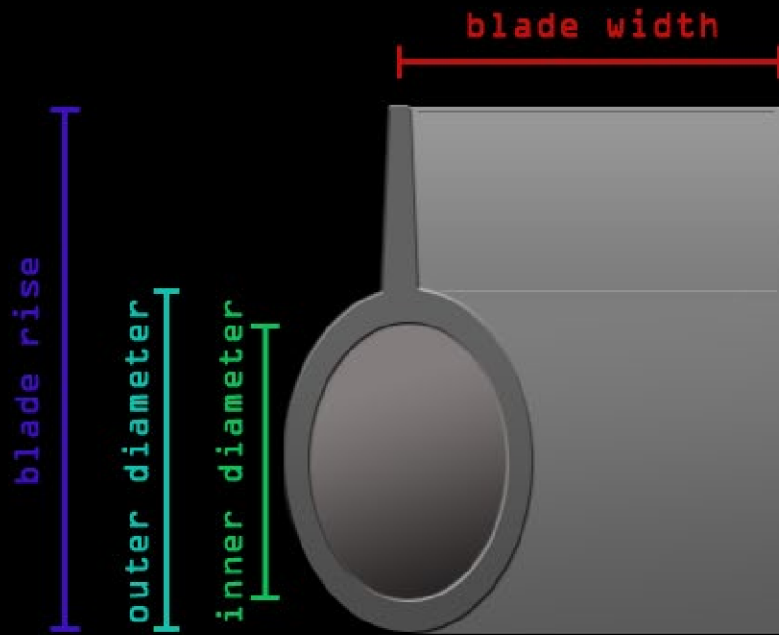
We Had An Idea...

So i started taking measurements



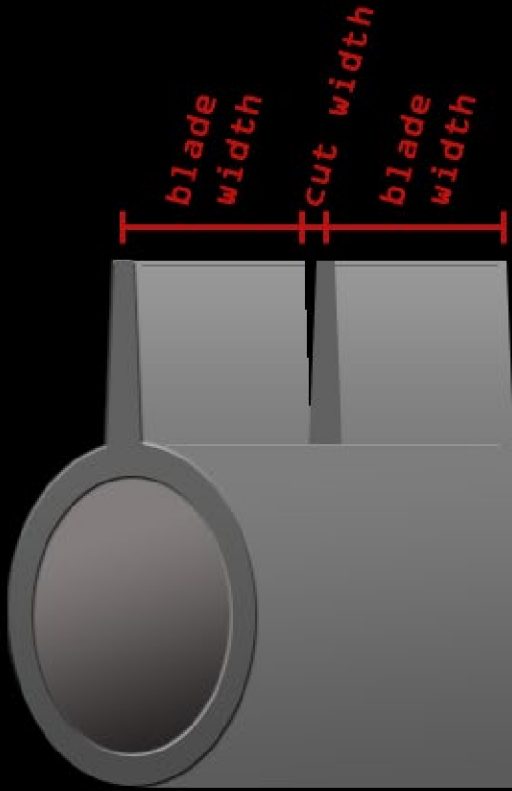
We Had An Idea...

Four typical key properties



We Had An Idea...

Split keys have some additional measurements



What Did We Create ?

full table of all cuff and key sizes, highlighting outliers

Microsoft Excel - handcuff data.xls

Type a question for help

File Edit View Insert Format Tools Data Window Help

Arial 10 B I U

	A	B	C	D	E	F	G	H
1	make	model	key blade width	key blade rise	outer diameter	inner diameter	protections	
2	"standard"	no name	3.2	5.1	3.4	2.8	n/a	
3	ASP	black tactical	3.3	5.3	3.2	2.5	two levers, anti-pick/proprietary block	1.2, .9, 1.2
4	chicago	X55	3.4	5.1	3.4	2.9	two levers	
5	hiatts	silver, plain	3.7	4.8	3.4	2.6	two levers, very stiff	
6	hiatts	speedcuffs	3.7	4.8	3.4	2.6	three levers, very stiff	
7	kyungchang	kcg	4.1	5.6	3.5	2.8	three levers with spacers	
8	peerless	700	3.4	5.1	3.4	2.8	super heavy spring, center keyway	
9	republic arms		3.4	5.1	3.3	2.7	two levers	
10	smith & wesson	standard	3.1	5.5	3.5	2.8	tight engineering	
11	valor	baloney cuffs	2.8	5.2	3.5	2.6	hal	
12	winchester	wn-40	3.4	5.2	3.45	2.7	two levers	
13	yuil	m-09	3.9	5.75	3.9	2.5	two levers, major anti-shim blocker	1.45, 1, 1.45
14	yuil	m-03	3.9	5.75	3.9	2.5	two levers, anti-shim blocker	1.45, 1, 1.45
15	zak	2-in-1 tool	3.4	5.0	3.45	2.95	n/a	
16								
17	average		3.48	5.24	3.48	2.70		
18	max		4.10	5.75	3.90	2.95		
19	min		2.80	4.80	3.20	2.50		
20	range		1.30	0.95	0.70	0.45		
21	low diff		0.68	0.44	0.28	0.20		
22	high diff		0.62	0.51	0.42	0.25		
23								

Sheet1 Sheet2 Sheet3

Ready NUM

So, Is There an “Ideal” Key ?



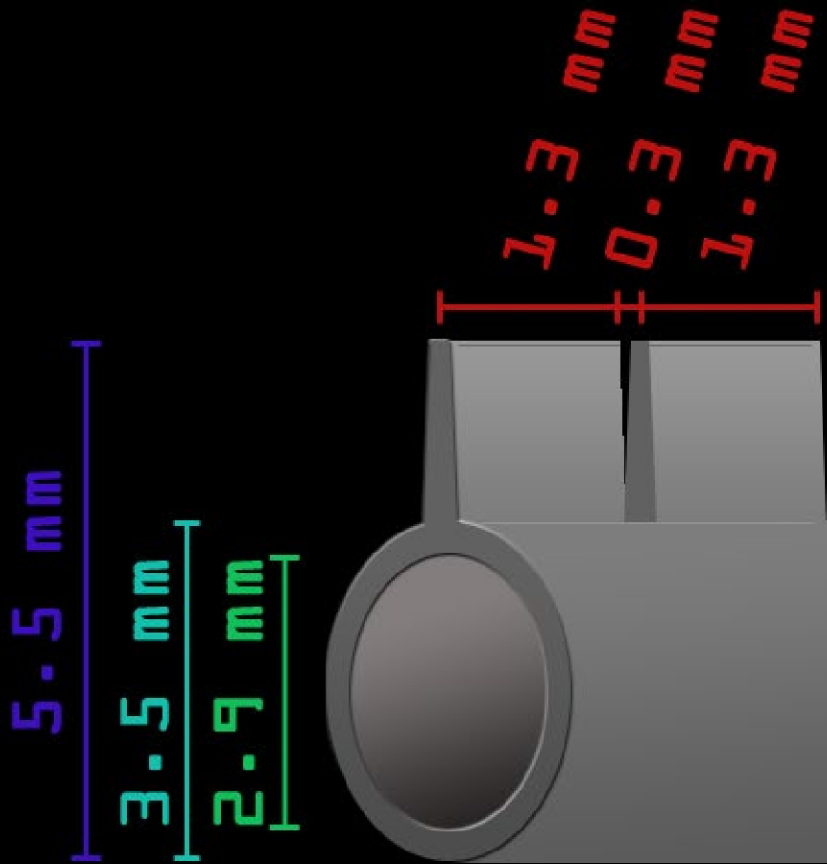
Yes!



The "Ultimate" Handcuff Key

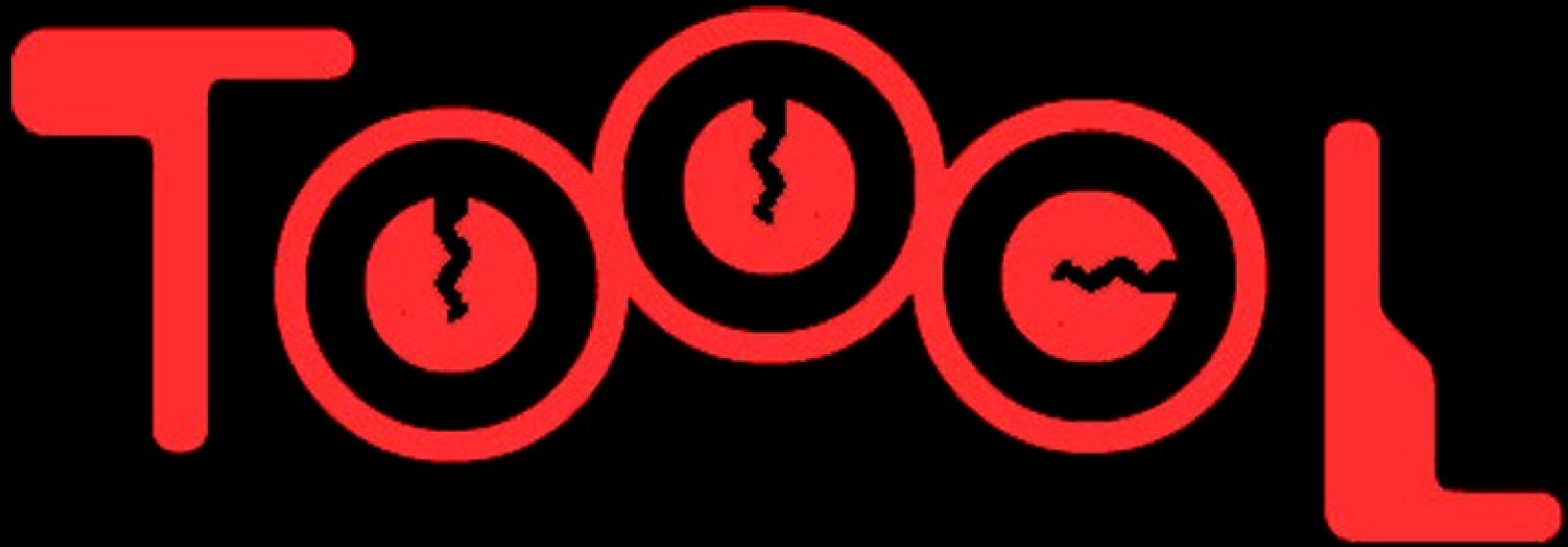


The "Ultimate" Handcuff Key



The “Ultimate” Handcuff Key

TOOOL did all the research



The “Ultimate” Handcuff Key

TOOOL filed for the patent



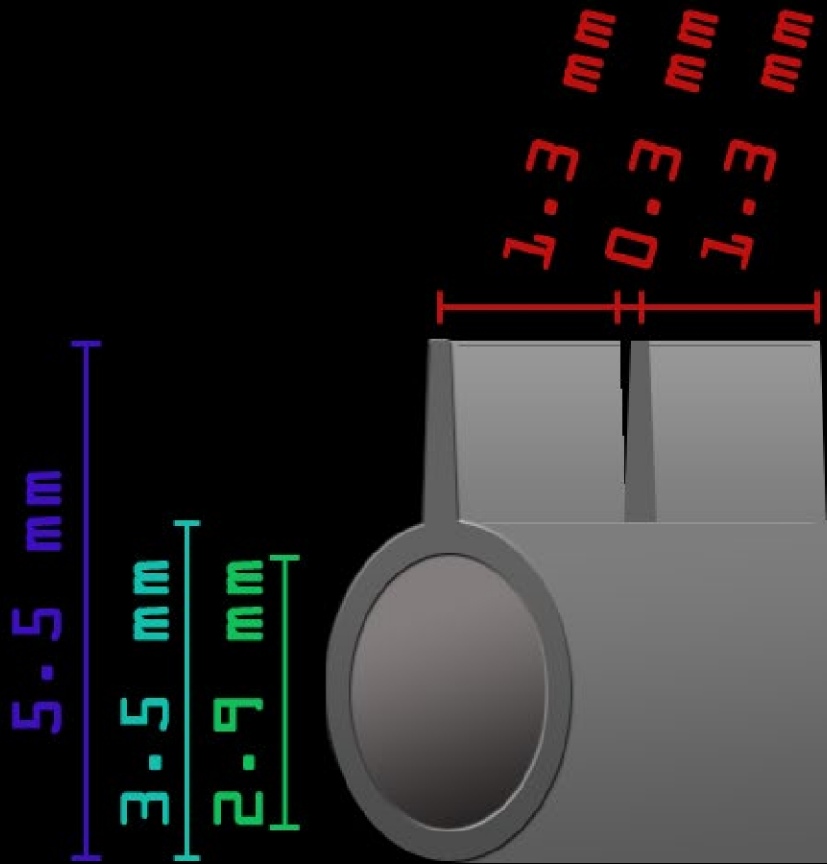
The “Ultimate” Handcuff Key

TOOOL has no objection to personal fair use



The "Ultimate" Handcuff Key

So, what's the easiest way to fabricate this yourself?



The “Ultimate” Handcuff Key

So, what’s the easiest way to fabricate this yourself ?

make	model	key blade width	key blade rise	outer diameter	inner diameter
"standard"	no name	3.2	5.1	3.4	2.8
ASP	black tactical	3.3	5.3	3.2	2.5
chicago	X55	3.4	5.1	3.4	2.9
hiatts	silver, plain	3.7	4.8	3.4	2.6
hiatts	speedcuffs	3.7	4.8	3.4	2.6
kyungchang	kcg	4.1	5.6	3.5	2.8
peerless	700	3.4	5.1	3.4	2.8
republic arms	folding	3.4	5.1	3.3	2.7
smith & wesson	standard	3.1	5.5	3.5	2.8
valor	baloney cuffs	2.8	5.2	3.5	2.6
winchester	wn-40	3.4	5.2	3.45	2.7
yuil	m-09	3.9	5.75	3.9	2.5
yuil	m-03	3.9	5.75	3.9	2.5
zak	2-in-1 tool	3.4	5.0	3.45	2.95
	ultimate key...				

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THANK YOU!



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