

# CORBIN<sup>®</sup>

## Bullet Swaging

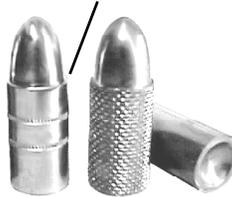


*Choose the right tools  
for your bullet design...*

Corbin builds seven sizes of bullet swaging presses, and five families of bullet swaging dies. Each family has its own capabilities for lead hardness, jacket thickness, maximum length and diameter, and bullet shapes. The largest caliber, longest bullet, and hardest material you want to swage will determine the family of dies you need. Corbin dies all have a final letter (suffix) indicating the kind of presses into which they fit. When you order any die or punch, always specify the letter type:

Type	For these presses:
-R	7/8-14 thread, slotted ram reload press
-M	Silver Press or Series II Press
-S	Series II Press or Hydro-Mite Press
-H	Mega-Mite, Hydro-Press, or Hydro, Jr.
-X	X-Press

*SWC means there is a shoulder between shank and ogive. Such bullet can be made in a single die.*



Soft lead (Bhn5) can be swaged in any Corbin die or press. Up to Bhn10 (about like wheel weights) can usually be swaged in the type -S dies. Up to Bhn 18 may be swaged in some type -H dies, and solid copper rod may be formed in special -X dies and -H dies depending on specific bullet shape and caliber.

Type	Calibers	Styles
-R	.224-.243	6-S jacketed or lead OT, LT, FB
-R	.355-.540	Bhn 5 lead SWC CB, HB, FB, BG
-R	.355-.458	Bhn 5 lead SWC 3/4-jacket FB
-M	.142-.458	Bhn 5 lead or jacketed, any style
-S	.224-.458	Bhn5-10 lead or jacketed, any style
-H	.224-.998	Bhn5-10 lead or jacketed, any style
-H	.224-.622	Bhn5-12 lead or jacketed, any style
-H	.224-.512	Bhn5-18 lead or jacketed, any style
-X	.355-.512	Annealed copper rod

With the correct combination of press and dies, you can make virtually ANY bullet in the range of calibers from .142 to .998 inches (14 to 4-bore), with or without a jacket, in handgun or rifle lengths. The most popular press and die set is the Series II press with FJFB-3-S dies.

### To select your press & dies, follow this Q&A trail to the right choice:

**1. Will your bullet be over .458 diameter?**

YES - use type -H dies (CSP-2, CSP-2H, or CHP-1 press)  
NO - continue...

**2. Will you use lead harder than Bhn 8-10?**

YES - use type -H dies (CSP-2, CSP-2H, or CHP-1 press)  
NO - continue...

**3. Will your bullet be longer than 1.5 inches?**

YES - use type -H dies in CSP-2H or CHP-1 press only.  
NO - continue...

**4. Do you need a jacket wall over .035-inch?**

YES - use type -H dies in CSP-2H or CHP-1 press only.  
NO - continue...

**5. Do you want to draw jackets from copper strip, from a 100-lb coil with auto-feed?**

YES - you need the CHP-1 hydro-press for automatic feed.  
NO - continue...

**6. Do you want to draw jackets over .6-in. long from copper strip?**

YES - you need the CHP-1 or CSP-2H hydraulic press.  
NO - continue...

**7. Do you want to make steel or brass alloy jackets, instead of copper or gilding metal?**

YES - you need -H dies in CSP-2H or CHP-1 press only.  
NO - continue...

**8. Will you use lead softer than Bhn 9-11?**

YES - you can use -S dies in the CSP-1 Steel Press.  
NO - continue...

**9. Is your bullet over 1.2 inches long?**

YES - you can use -S dies in the CSP-1 Steel Press.  
NO - continue...

**10. Do you want to make copper tubing jackets with less than .035 wall thickness?**

YES - You can use the CSP-3 or CSP-1 press.  
NO - continue...

**11. Will your bullet have a shoulder between the full diameter shank, and the start of the nose, and be all lead or with a Base Guard™ or a gas check?**

YES - You can use the LSWC-1 die, or EC-1-R, for single stroke bullet production. The LSWC-1 also adjusts precise weights. The EC-1-R does not.

NO - You will need a set of two or more dies, depending on the style of bullet. A minimum of CS-1 and PF-1 is required. For open tip or FMJ use the FJFB-3- set.

*The SWC or Semi-Wadcutter style can be a paper-patched rifle bullet, a lead pistol bullet, with or without a Base Guard, Gas Check, or Half-Jacket. It can have ANY nose shape (round, Keith, wadcutter, conical, HP, etc.) and ANY base shape (heel, cup, disk, flat, hollow, RBT) so long as (1) there is a shoulder between the shank and nose, or a flat nose, and (2) there is NO jacket material covering the shank section of the bullet except for a possible quarter inch or less near the base.*

**12. Do you want to hold extremely precise weight control?**

YES - Your die set needs to include a CSW-1 Core Swage to adjust the core weight. Weight variation of less than 1% can be easily obtained. Get a die set that includes the CSW-1 (such as FJFB-3- type or higher number)

NO - You can save a little by leaving out the CSW-1 Core Swage, at the expense of more weight variation in your bullets. Unswaged cores probably vary from 2 to 6 percent in weight, depending on your care in cutting wire, or casting cores. Order core seat and point form dies (CS-1 and PF-1) instead of 3-die set or higher.

**13. Will your bullet need a smooth ogive (no step or shoulder) or a bevel base?**

YES - You need a PF-1 die. For jacketed bullets, you also need the matching CS-1 core seating die.

NO - You can use a CS-1 die and form the nose in a punch cavity (as opposed to the die cavity). This will leave a shoulder between the nose and the shank, SWC style.

**14. Do you want to make rebated-boattail bullets (for long range accuracy)?**

YES - Select a Corbin press and dies with "RBT" in the name, such as FRBL-4- or RBTL-6 sets.

NO - You can make flat, dish, cup, or hollow base using the appropriate base punch in a standard CS-1- or LSWC-1- type die, or get the FJFB-3- or LTFB-4 set.

**15. Do you want a lead-tipped, spitzer-style rifle bullet?**

YES - Select a set with "L" in the name (uses LT-1- die), such as the LTFB-4 or RBTL-5 sets.

NO - you can make large, blunt lead tips in the PF-1- without using the LT-1- in a final step. When the tip is small, then you will need to add the LT-1- to finish the bullet. (The LT-1- die always requires the PF-1- first: it reshapes the lead tip, but does not form the ogive.)

**16. Do you want to make a .224 (5.56mm) or .243 (6mm) 6-S spitzer ogive shape with flat base, and open or lead tip, using fired .22 cases for an unlimited, free jacket supply?**

YES - You can use type -R dies in a suitable reloading press. Add a LT-1-R die for nice lead tips, or a CSW-1-R die to control core weights better. Make FREE jackets by adding the RFJM-22R or RFJM-6MR jacket drawing die and fired .22 LR cases!

NO - continue...

*Corbin makes .224 and .243 caliber jacketed rifle bullet dies with 6-S ogive in type -R dies. Subject to length and material limits specified (under 1.2 inches, soft lead only, with or without a jacket of .035-inch thickness or less) you can use your existing 7/8-14 TPI, slotted ram single station reloading press to make these bullets. A press similar to an RCBS Rockchucker is suggested.*

**17. Do you have a good supply of soft lead?**

YES - You may wish to purchase a CM-4 core mould (for up to .458 jacketed bullets, .365-inch core) or CM-3 core mould (.390-inch cores for .40-45 lead bullets and larger cores to .5 inch diameter). You can cast cores using a regular lead pot about four times as fast as casting lead bullets.

NO - Get the PCS-1 core cutter (up to .365-lead wire size for jacketed bullets up to .458 caliber) or the PCS-2 core cutter (up to .5-inch wire), and a spool of lead wire (LW-10) in the suggested diameter for your bullet. This is faster and safer than casting.

**18. Do you want to extrude lead wire?**

YES - You need the CHP-1, or CSP-2H, plus the LED-1 extruder kit (comes with billet moulds, four wire dies).

NO - You could sell it, you know! Lead wire pays you twice what the lead itself costs and there is a good market.

**19. Do you want to make paper-patched, grooved, or knurled lead muzzle loader bullets with a fouling-scraper shoulder, from .32 to .54 caliber?**

YES - You can use the PRO-SWAGE dies for your reloading press with soft lead, with standard nose and base shapes, plus the HCT-2 lead knurling tool or the HCT-3 lead grooving tool. Or for harder lead, use the LSWC-1-H and CSP-2 Mega Mite or larger presses.

NO - The PRO-SWAGE dies also make standard nose and base shapes in .32-.45 pistol and .45-70 with the Base Guard™ copper fouling scraper disk attached!

**20. Would you like to know more about bullet swaging, including how to make a nice retirement income from custom bullets?**

YES - Order *ReDiscover Swaging!* Only \$24.50. Or for the most complete technical information, order the complete Seven Book Pack - \$59.50.

NO - Perhaps you'd like the 235-page Corbin Handbook of Bullet Swaging, for only \$9.50?