

Making Hollow Ogive Slugs

The standard Corbin hollow point airgun slug is made in a single PF-1-SP swage die, with one stroke of the CSP-1 S-press. The hollow point cavity is formed by a precision punch tip while the lead core is shaped around it.



Then on the down stroke of the press, the same internal ejection punch lifts the slug clear of the ram-mounted die. Weight is adjusted by bleeding off surplus lead through a bleed hole in the die body. The base shape is formed with the external punch, which is mounted in a punch holder in the press head.



The minimum possible weight depends on the length of the shank (parallel part of the bullet) and the volume (diameter and depth) of the hollow point and base shape. To make a lighter bullet than is possible in the single-die system, a large hollow cavity can be formed in the lead core using a cylinder-shaped die cavity. This is the CSW-1-S core swage die with a hollow point punch and a base or external punch matching the desired base shape.



Then in a second operation, the hollow nosed cylinder is rolled into the nose shape (ogive) using the standard PF-1-SP die. This allows the hollow cavity to be larger than the opening in the bullet nose. The ejection punch "cleans up" the tip or meplat and ejects the finished slug.

This requires two dies, rather than just one, but it makes the hollow ogive design possible. The two main advantages are lighter weight for the same length, and greater expansion on impact than with a conventional straight or wedge-shaped hollow point.



Here is the list of equipment to make any specified diameter of hollow ogive slug:

CSP-1 S-press -----	769.00
CSW-1-S die with HP punch -----	199.00
PF-1-SP die specified caliber -----	489.00
CSL-2 swage lube, 2-oz bottle -----	8.50
LW-10 lead wire -----	55.00
PCS-1 core cutter -----	89.00
TOTAL ITEMS (KIT-3SP) -----	\$1609.50

Standard base shapes are flat (FB), dish (DB), cup (CB), hollow (HB), and rebated boattail (RBT). Standard ogive shape is 2-S ogive. A standard margin around the hollow point opening is 0.010 inches. The same set of dies can make a wide range of weights in one diameter. Different base shapes require a new external (base) punch, PUNCH-S, \$50. The PF-1-SP can make a heavier conventional HP style slug by itself, without using the CSW-1-S die. To order specify slug diameter, ogive, base shape, and hollow point depth and diameter, or for standard dimensions just specify base and caliber.