Anatomy of a GRAVER

Graver Types
END VIEW
Onglette  Flat  Round  Knife  Square

TRADITIONAL GRAVER

- REMOVE BY GRINDING
- SIZE
- TOP
- FACE
- BOTTOM
- N-1
- 1 3/4" (4.45 cm)
- REMOVE BY GRINDING
- 1/8" (.004mm)
- TANG or SHANK
- CHAMFER EDGES

SQUARE GRAVER

- REMOVE BY GRINDING
- FRONT END VIEW
- BACK END VIEW
- ANY WIDTH
- ANY WIDTH

HOW-TO
INSERT INTO
HOLDER

SET SCREW
ALWAYS ON TOP

QUICK CHANGE
HOLDER

CORRECT
WRONG
CORRECT

HANDBRIDGE
CHUCK

CORRECT
CORRECT
WRONG
SEATED ON ANVIL
SEATED ON FACE
90 Degree Graver

- 5° Clearance
- 5° Clearance
- 10° Clearance
- 45°-55° Face
- 17.5° Heel (Lift)

120 Degree Graver

- 5° Clearance
- 5° Clearance
- 10° Clearance
- 45°-55° Face
- 17.5° Heel (Lift)
**Setup**

- Power Hone
- Blank Graver
- Dual Angle Sharpening Fixture

**Truing the 90° Graver**

1. **TOP**
   - 0°

2. **BOTTOM**
   - 45°
   - 1°

3. **POWER HONE**
   - 15°
   - 30°
   - 45°

**TRUING vs. RESHAPING**

To **true** a graver is to make sure that the side angles are correct. The sides of a graver should be 45° by default, but they may not be exact. By **truing** the graver, one may ascertain that the sides are, in fact, 45° angles. **Reshaping**, on the other hand, **changes** the side angles, e.g., from the default 45° to 30° for a 120° graver.

**Notes:**
Face and Heel (Lift) of the 90° Graver

Notes:
Tapering the 90° Graver

Notes:

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The 120° Graver

Notes:
Sharpening a Flat

Do the FACE first, then FLIP over 180° and do the HEEL.
Onglette Graver

Cutting / Face Angle = 50 Degrees (hard metals)
60 Degrees (soft metals)

Heel (Lift) = 5 Degrees

Flat Graver

Cutting / Face Angle = 50 Degrees (hard metals)
60 Degrees (soft metals)

Heel (Lift) = 0-15 Degrees