

THE AMERICAN FACETOR

A NEW CONCEPT IN DESIGN

SMALLER,
LIGHTER,
EASIER TO USE,
GREATER
RANGE OF
OPERATION
... THAN
EVER BEFORE!



THE AMERICAN STANDARD CORP.



Pat. Pend.

The American Facetor was conceived through many years of research and testing by professionals, who realized the need for a better faceting machine—one that does every faceting job, yet would be smaller and lighter than any other unit.

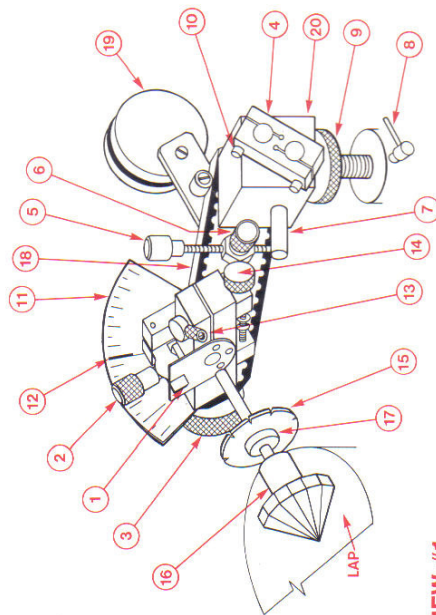
Now, for the first time, there is such a facetor for you.

The American Facetor—a highly precision-engineered instrument, built with only the best materials for longer life: anodized aluminum, sealed bearings and stainless steel.

The American Facetor is great for the beginner because it's simple to use, and terrific for the experienced hobbyist or professional who wants a broad range of operation. All this, and at a price easily available to all!

Check these new features!

- A truly portable full-size facetor. Only 12" long, 8" wide, 10" operating height and weighs only 12 lbs., yet has excellent rigidity.
- New programmed index gears simplify your cutting operation on other than round stones.
- No quill—allows you freedom at will to cut mixed shapes and repetitive stones.
- No column—eliminates overhang, twisting and costly, needless equipment.
- No additional adapters are required to cut table of stone at 0°.
- Because of its revolutionary design, this machine cuts a 3" stone on its 6" lap.
- Protractor setting is always constant when working.
- Rotary fine adjust 16°, vertical fine adjust 8°
- Power 115V 1.5 amps
- Use 6" cast or 1/16" laps
- Variable lap speed 0 to 700 RPM • Direct speed 800 RPM
- Spindle diameter 1/2"
- The American Facetor can be used with supplied base or mounted in your work table.



VIEW #1 Terminology Faceting Mode

1. Index gear locking pawl
2. Pawl clamp screw
3. Head clamp knob
4. Girdle block
5. Stop adjust screw
6. Stop lock screw
7. Depth stop
8. Vertical adj. lock lever
9. Vertical adj. knob
10. Lock set screw girdle
11. Protractor
12. Pointer
13. Rotary adj. lock
14. Rotary adjust knob (cheater)
15. Index gear
16. Dop
17. Index gear lock screw
18. Pivot arm
19. Counter balance
20. Pivot block

To grind a round brilliant, follow these 10 easy steps.

- Grind a preform, lap the table to a smooth flat and mount it on a round dop with dop wax.
- Using a 64 space index gear (item 15) slip it over the free end of the dop with the numbered side facing the preform.
- Allow about 1 1/2" of the dop to extend from the gear to the dop.
- Tighten the set screw (item #17) to locate the index gear to the dop.
- Insert the free end of the dop in the head base (See view #1).
- Retract the index gear locking pawl (item #1) by turning the pawl clamp screw (item #2) counterclockwise.
- Seat the pawl in the index gear notch which represents the main

Continued

facet just above the set screw (item #17) position #64.

- Clamp the rotary adjust knob (item #14).
- Set the required angles by loosening head clamp knob (item #3).

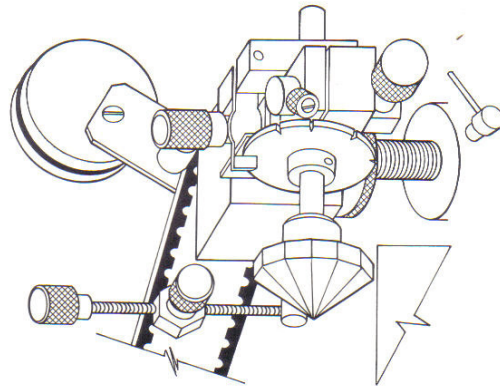
Height adjustment is regulated by (item #9), stop by (item #5) and cheater adjustment by (item #14).

This same procedure is used for all shapes just by using the programmed

index gears.

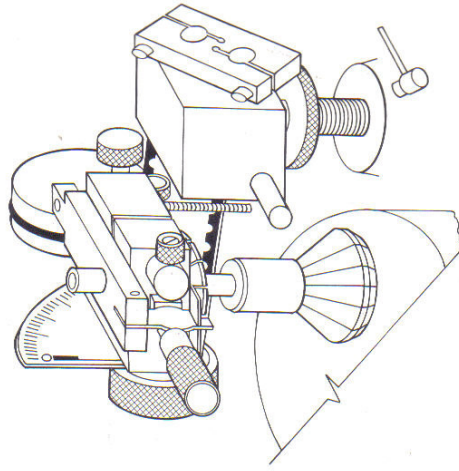
Notice how this dop index gear combination unit eliminates the conventional quill design and the problem associated with staying with a cut until it's finished.

By using several dop index gear units you can grind stones in a production sequence, or grind various mixed cuts, whatever you wish. This design eliminates expensive and unnecessary equipment!



VIEW #2 Girdle Grinding Mode

- Remove complete head and dop index gear assembly by unlocking head clamp knob (item #3).
- Insert spindle of head assembly into girdle block (item #4).
- Set stone on lap. Dop should be approximately parallel to lap. Lock assembly.
- Continue grinding sequence.



VIEW #3 Table Grinding Mode

- Loosen head clamp knob (item #3), position and lock.
- Rotate head assembly, with dop index gear assembly into a zero
- Continue grinding sequence.

STANDARD ACCESSORIES

- Transfer fixture.
- One 64 index gear.
- Set of 6, 1/4" dia. stainless steel dops.
- One drain hose.

OPTIONAL ACCESSORIES

- An all-plastic water tank including valves—no corrosion problems.
- Assorted 1/4" diameter, stainless steel dops.
- Index gears.
64 72 96 120
- Programmed index gears for oval step, pear, marquis and heart, plus many others.



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