

## 5C Collet Index Fixture

- Threaded spindle is hardened and ground (2-1/4"-8TPI).
- Single lever action activates the indexing mechanism.
- Precision ground index plate has 24 indexing locations in fifteen degree.
- 15° increments, any of which can be masked for greater versatility.

| Specifications                                    | Max Var. |
|---------------------------------------------------|----------|
| Dividing spindle concentricity                    | .004"    |
| Cylinder center bore (per 1") concentricity       | .008"    |
| Lateral offset of center slot of dividing spindle | .008"    |
| Center slot to dividing spindle concentric        | .008"    |
| Spindle center line parallelism                   | .008"    |



Order No. 235-6200

## 5C Collet Index Fixture

Great for drilling, milling, grinding and locating angles.  
Precision ground spindle  
Plate can be bolted to top of drill bushing  
Use in vertical position with angle plate  
Model 5C complete with 24 space ring and 5C draw nut.



Order No. 235-6081

## 5C Spin Index Fixtures

- Hardened and precision ground spindle.
- Direct indexing in ten steps, graduated in 5° increments.
- Applicable to all milling machines, surface grinders and inspection equipment.
- Precision ground 36 position index plate.
- .0004" T.I.R spindle accuracy.
- Super time saver.



| Descriptions                                          | Order No. |
|-------------------------------------------------------|-----------|
| 5C Spin Index Fixture Only                            | 235-6011  |
| 5C Spin Index Fixture(235-6011) & Tailstock(200-1104) | 235-6012  |

## 5C Collet Chuck

Designed for 5C Collets  
Used for clamping tools or workpieces in turning, grinding, boring and milling machines  
Supplied with wrench

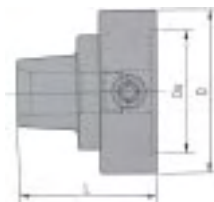
Fixture outside diameter size: 5"/126mm  
Collet capacity:  
Round 5C collets: 3/64-1-1/8"(1-28mm)  
Square 5C collets: 1/8-3/4"(3-19mm)  
Hex 5C collets: 1/8-7/8"(3-22mm)

Max. RPM: 6000

Weight: Approx: 10lbs



| Model        | Order No. |
|--------------|-----------|
| D1-4 Spindle | 235-6020  |
| D1-5 Spindle | 235-6021  |
| D1-6 Spindle | 235-6022  |
| Plain Back   | 235-6023  |



## Blade Resharpener Fixture

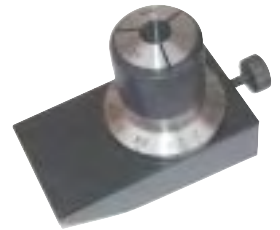
This fixture accommodates all APT MULTI-TOOL blade diameters and thicknesses. The correct end tooth relief angle is built into the fixture marking resharpener simple, accurate and inexpensive on any surface grinder.



Order No. 209-9012

## End Mill Grinding Fixture

- The fixture uses 5C collects (no more bushings to lose) which means any shank-size end mill from 1/16" to 1-1/8" can be ground. Shell mills can easily be held with straight shank arbors.
- Grinds 2,3,4,6,8 & 12 fluted end mills and shell mills. Faces only!
- Clearance and relief angles are built into base.
- Solid 2-1/2" x 4-1/2" base ground on bottom for sure contact with magnet.
- Black oxide finish.



Order No. 287-6000

## End Mill Cutters/Sharpener

### Type 287

- Designed to accomplish all sharpening need.
- Diameter of shank of end mill is 3/8, 1/2", 5/8".
- It may be equally divided to 2,3,4,6,8.



Order No. 231-0287

## End Mill Sharpener

- Designed to accomplish all sharpening needs. No need to send out tools. Specials as standards can be sharpened.
- Spindles and bushings to cover the full range of 3/16" up to 1-1/4"
- Shank end-mills are supplied. Will accept cutters with diameters up to 12", and even larger with the use of "riser blocks".
- Quickly sharpens cutters and end-mills right on your tool or surface grinder.
- Two spindles and four bushings cover the full range of 3/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1" and 1-1/4" shank end-mills.
- Accept double end, end-mills



Order No. 287-6530

| Specifications                                   | Maximum Variation |
|--------------------------------------------------|-------------------|
| Spindle center line to base parallelism (per 12" | 0.0024"           |
| Body to stand concentricity                      | 0.0012"           |
| Repeat accuracy                                  | 0.0012"           |

## Electric Drill Sharpener

- Volt/Frequency: 110V/60Hz, or 230V/50Hz.
- Input Power: 70 Watts.
- Max. Speed: 1600 RPM.
- Sharpening Size: 9/64"-25/64"/3.6-10mm.
- Comes with sharpening wheel-80 grit 60mm diameter.
- Net Weight: 3.50LBS/1.60Kg.



Order No. 287-6520