Burr OAK Tool Inc. has been the industry leader in designing and building fin dies since the early 1960s. Our engineers work closely with you to design and build your fin die to meet your specific heat transfer requirements. The dies can be equipped with rapid die change options to provide more flexible and accurate production capabilities.

Fin dies designed and manufactured by Burr OAK Tool are consistent. They are able to maintain close tolerances and perform within the demanding specifications required by intricate fin design. OAK fin dies are dependable, both in creating quality fins each stroke of the press, and in producing superb product for many years.

**STANDARD FIN FORMS**
- Plain / Flat
- V-Waffle
- Modified V-Waffle
- Sine Wave
- Modified Sine Wave

**SPECIAL FIN FORMS**
- Dog-Bone
- Tab Spaced
- Flat Tube
- Ribbed

**SPECIAL FIN COLLARS**
- Starburst
- Elliptical
- Oval

OAK FIN DIES
Built for Accuracy, Speed, Longevity and Reliability
DIE TYPES

Standard Draw Type:
Progressively stretches and reforms through a series of draws

Drawless Die - Triple Extrude:
Progressively extrudes and irons (reduces thickness) as it forms the collar

ENHANCEMENTS

Louver:
Sections cut and rotated away from stock

Lance:
Sections are cut and moved vertically away from stock

Economic Advantages

- Highly accurate dies mean more product per square foot of stock and less scrap.
- Achieve tooling cost savings through flexible die design. A single die is capable of meeting a large range of fin design requirements with various collar spacings, stock widths and material types.
- Hydraulic slit selector clamps (gaggable tooling) allow row selections to be made by one operator versus two to make a change in a shorter time.
- Tooling can be manufactured from special tool steels for longer tool life, minimizing sharpening requirements. This means less production downtime.

Technical Advantages

- Flexible die design can provide collars up to 1½ fins per 25.4 mm.
- Adjustable reflare station provides accurately controlled fin stack height.
- Auto draw and reflare adjustment is available.
- Auto slit select up to 6-positions with hydraulic slit clamp.
- Hydraulic slit clamps provide a positive, locked position throughout operation — eliminating hand screws.

User Advantages

- Auto slit select and hydraulic slit clamp allows for safer changeover because guards remain in place — eliminating the need to open guards and enter the machine.
- The clamps provide a positive locked position, and the auto slit selection provides location — all operated from the operator touch screen controls.

Small Diameter (5 mm)