For the direct formation of round material to squares, rectangles and special shapes.

Engineered & Built in the USA
Since 1900 FENN has been in the business of designing and building robust, reliable metal forming machinery that produces unmatched results. FENN Turks Heads are trusted by manufacturers across the globe for their precision and durability. With over 100 years in the machinery business, we recognize that no one solution can be designed to fit the needs of an ever changing global economy. FENN is pleased to offer a variety of Turks Head solutions for every requirement, including Pull-Through, Power-Driven and Turks Head Mill options.

All FENN machinery is proudly designed and built in our Connecticut, USA headquarters by our experienced staff. Contact us today to learn which style Turks Head is best suited for your application.

Power-Driven, Pull-Through, and Mill types available from the most trusted name in the industry.

Models | A (mm) | B (mm) | Max Square (mm) | Max Rectangle | Max Speed in m/min | Weight in kg | Roll Dia (mm)
--- | --- | --- | --- | --- | --- | --- | ---
2UHP | 295 | 270 | 2 | 1.0 x 2.0 | 120 | 14 | 45
3UHP | 450 | 440 | 3.6 | 1.8 x 3.6 | 180 | 70 | 70
3UHS | 420 | 400 | 2 | 1.8 x 2.0 | 200 | 70 | 65
5UHP | 660 | 610 | 6.4 | 3.2 x 6.4 | 180 | 240 | 108
5UHS | 750 | 700 | 3.8 | 1.8 x 3.8 | 460 | 240 | 106
7UHP | 1015 | 935 | 11 | 5.5 x 11.0 | 300 | 960 | 165
7UHS | 1120 | 1010 | 5.6 | 2.8 x 5.6 | 460 | 960 | 178
6U | 1270 | 1170 | 16 | 8.0 x 16.0 | 60 | 3500 | 228
3UHHP | 480 | 480 | 3.6 | 1.8 x 3.6 | 180 | 70 | 70
3UHHS | 395 | 395 | 2 | 1.8 x 2.0 | 200 | 70 | 65
4UHHP | 675 | 675 | 6.4 | 3.2 x 6.4 | 180 | 280 | 108
4UHHS | 715 | 715 | 3.8 | 1.8 x 3.8 | 460 | 280 | 106
5UHHP | 1200 | 1200 | 11 | 5.5 x 11.0 | 300 | 1400 | 165
5UHHS | 1130 | 1130 | 5.6 | 2.8 x 5.6 | 460 | 1400 | 178
6TH | 1250 | 1250 | 16 | 8.0 x 16.0 | 60 | 3800 | 254
2PHP | 250 | 250 | | | 120 | 12 | 45
3PHP | 435 | 455 | 16.0 x 25.0 | 180 | 70 | 70
4PHP | 670 | 670 | 19.0 x 39.5 | 180 | 240 | 108
5PHP | 870 | 870 | 19.0 x 44.5 | 460 | 240 | 102
5PPHP | 955 | 955 | 35.0 x 76.0 | 300 | 800 | 165
Achieve precision wire shaping with FENN Turks Heads.

The Turks Head is a metal forming machine that can be compared to an adjustable draw die, but is actually infinitely adjustable in its limiting dimensions. The Turks Head operates on the Rolling Mill principle and imparts the same qualities to the metal, including superior finish, accurate size & shape, and improved grain structure. The Turks Head differs from a rolling mill in the number and arrangement of rolls. The Turks Head utilizes two pairs of rolls, one pair is arranged horizontally, while the other is arranged vertically. The material is formed and shaped through the Turks Head by either a pulling device such as a capstan, or by driven rolls in power-driven models.

Pull-Through Turks Heads

A FENN Pull-Through Turks Head requires an external pulling device, such as a capstan. Advantages include:

- Tension applied to the material by the pulling device minimizes camber
- Capable of running speeds up to 1,500 FPM
- Easy roll adjustment
- Regrindable rolls promote longer usable life and lower maintenance costs

Power-Driven Turks Heads

A FENN Power-Driven Turks Head eliminates the need for a pull-through device. Advantages include:

- Less floor space is occupied without a pulling device, such as a capstan
- Top and bottom configurations allow for direct roll drive- direct drive is better for constant tension on delicate, low tensile product
- Elimination of a capstan reduces material waste, saving precious metal and scrap
- Easy change roll technology utilizes gear mesh system- allows for quick removal of the roll without disconnecting joints
- Regrindable rolls promote longer usable life and lower maintenance costs

Turks Head Mills

Turks Head Mills are used to create a profile for large wire, rod, bar or strip. Advantages include:

- Standard models include top and bottom roll direct drive
- Customized software available to meet your specific production requirements
- Gauging and closed loop feedback systems can be incorporated
- Can be made as stand alone units or part of a much bigger line
- Mill solutions available for a variety of materials

Typical Materials

Steel - Copper

Industries Served

Medical - Dental - Wellscreen

Available Turks Head Options

- Manual Fine Adjustment Gearbox — Connected to the adjusting screws, it enables high accuracy and precision adjustments
- Motorized Adjustment — Servo motor and gearbox are connected to an adjusting screw. Encoders built into the motors relay the position for precise control of width and thickness
- External Coolant System — Can be incorporated for temperature control in complete lines
- Asymmetric Rolling — Available on Power-Driven and Turks Head Mills, allows operator to drive top and bottom rolls at different speeds to prevent bowing of material
- Guiding Systems — Ensures accuracy and alignment with rolls of input material