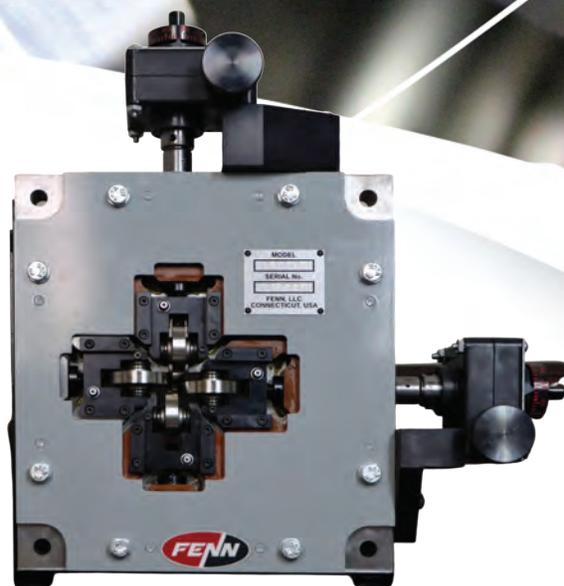


TURKS HEADS

Direct formation of round material to squares, rectangles and special shapes

Custom solutions configured to your unique requirement



Advantages

The Turks Head is a metal-forming machine that can be compared to an adjustable draw die, but it is infinitely adjustable in its limiting dimensions.

It operates on the Rolling Mill principle and imparts the same qualities to the metal, including superior finish, accurate size and 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 is arranged horizontally, while the other is placed 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

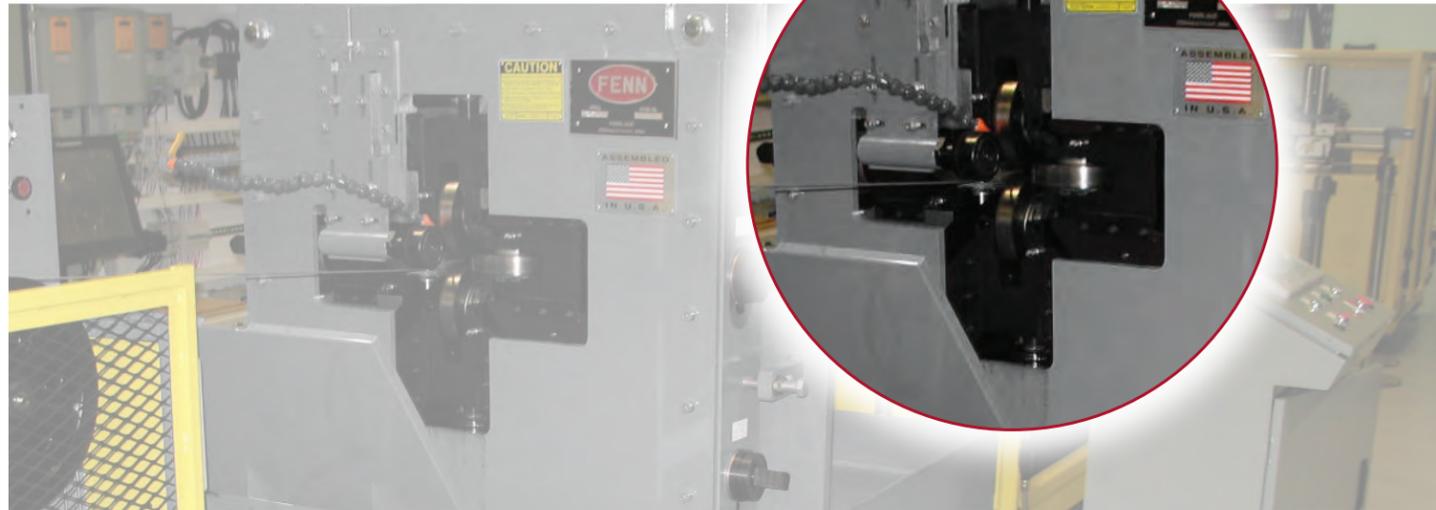
Require an external pulling device, such as a capstan

Advantages:

- 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



Common Pull-Through Turks Head with Capstan

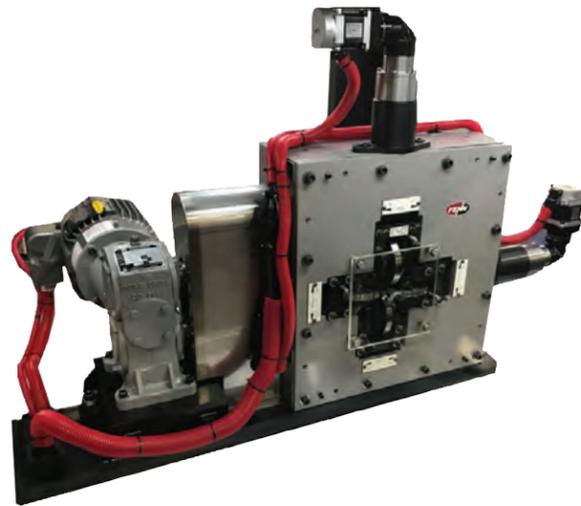


■ Power-Driven Turks Heads

Eliminates need for pull-through machine

Advantages:

- 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



Models

Universal Models

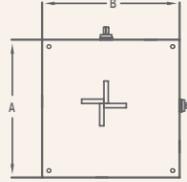
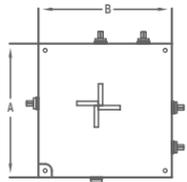
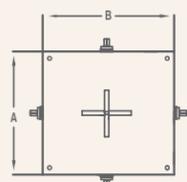
- **Two axes** of adjustment, up and down and in and out
- By simply adjusting the position of the rolls, any square or rectangle within the Turks Head's capacity can be set up
- **Easiest to set up a standard width and thickness**

Plain Models

- **Four axes** of adjustment so each roll moves independently
- Since rolls are set up directly in line with each other, plain models are **best machine for producing unique shapes**

Combination Models

- **Six axes** of adjustment
- Can be used as either a U-type or P-type Turks Head and provide **the most flexibility in setting up the rolls**

Models	A (mm)	B (mm)	Max Square (mm)	Max Rectangle (mm)	Max Speed (m/mm)	Weight (kg)	Roll Dia (mm)
 Type: Universal	2UHP	295	270	2	1.0 x 2.0	120	14
	3UHP	450	440	3.6	1.8 x 3.6	180	70
	3UHS	420	390	2	1.0 x 2.0	200	70
	4UHP	660	610	6.4	3.2 x 6.4	180	240
	4UHS	750	660	3.8	1.9 x 3.8	460	240
	5UHP	1015	935	11	5.5 x 11.0	300	960
	5UHS	1120	1010	5.6	2.8 x 5.6	460	960
6U	1270	1170	16	8.0 x 16.0	60	3500	
 Type: Combination "TH"	3THHP	480	480	3.6	1.8 x 3.6	180	70
	3THHS	395	395	2	1.0 x 2.0	200	70
	4THHP	675	675	6.4	3.2 x 6.4	180	280
	4THHS	615	615	3.8	1.9 x 3.8	460	280
	5THHP	1200	1200	11	5.5 x 11.0	300	1400
	5THHS	1130	1130	5.6	2.8 x 5.6	460	1400
6TH	1250	1250	16	8.0 x 16.0	60	3800	
					Max Roll Opening		
 Type: Plain	2PHP	250	250	8.0 x 19.0		120	12
	3PHP	435	455	16.0 x 28.5		180	70
	4PHP	670	670	19.0 x 44.5		180	240
	4PHS	670	670	19.0 x 44.5		460	200
	5PHP	955	955	35.0 x 76.0		300	800

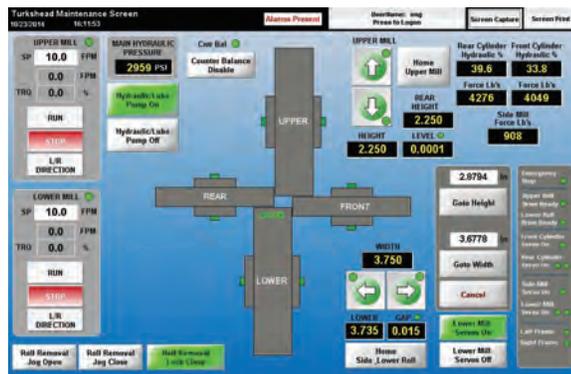
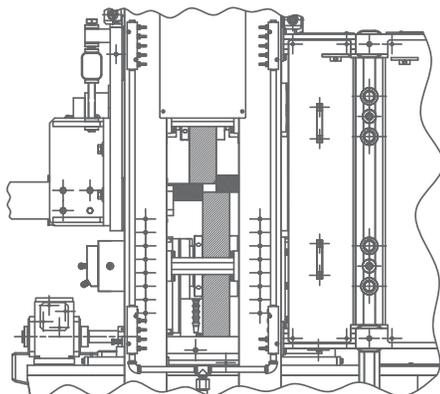
All dimensions subject to factory confirmation.

Turks Head Mills

Create a profile for large wire, rod, bar or strip

Advantages

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



Profile Examples



Available Turks Head Options	
Manual Fine Adjustment Gearbox	Connects to the adjusting screws, it enables high accuracy and precision adjustments
Motorized Adjustment	Servo motor and gearbox connect to an adjusting screw Encoders built into the motors relay the position for precise control of width and thickness
External Coolant System	Temperature control integration for complete lines
Asymmetric Rolling	Allows operator to drive top and bottom rolls at different speeds to prevent bowing of material (available for Power-Driven and Turks Head Mills)
Guiding Systems	Ensures accuracy and alignment with rolls of input material



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