

October 2007



Steadily Climbing Market Trend

Over the past one to one and a half years, our observations of a surge in demand for large diameter special steel processing machines has now been confirmed by our sales orders. This undoubtedly points us to a new market trend in the cold finishing industry, primarily due to a recent boom across the aircraft, large tubing manufacturing, power generation, medical, oil and gas industries worldwide.



Hetran is honored and privileged to be a valuable supplier for these technologically challenging machines:

- Field proven performance, technical know-how and experience
- Superior product quality finish
- Exceptional high productivity
- Low maintenance and operator friendly
- Competitive pricing—direct and indirect cost savings
- Excellent aftersales service and support
- Leader in innovation, design and technology



HETRAN, INC.

The World of Hetran 2010SM

HETRAN
Symbol of Quality and Performance



Hetran's new design applies to large, automatic compensating centerless bar turning (peeling) machines with 12" through 20" (300 – 500 mm) size capability.

The new design turning (peeling) head's overall dimensions are similar to existing 12" (300 mm), 14" (350 mm), and 16" (400 mm) machines. This provides customers the option of buying a new turning (peeling) machine or retrofitting the new design turning (peeling) head to an existing Hetran machine of the same size capability.

The standard size range capability for each of the new design turning (peeling) head is:

- 12" (300 mm)
- 14" (350 mm)
- 16" (400 mm)
- 18" (450 mm)
- 20" (500 mm)

Minimum bar length requirements remain unaffected by the new turning (peeling) head design.

Hetran's new innovative technology gives our customers a competitive advantage over existing machines. Non-value added time is greatly reduced through shorter set-up time, reduced scrap, improved productivity and cycle times. Shortened production runs will reduce lead time, inventory investment, improve inventory turns and improve cash flow.

The new turning (peeling) head incorporates a simplified design with increased strength and wearability of the automatic compensation mechanics, the turning (peeling) head plate and the toolholder components.

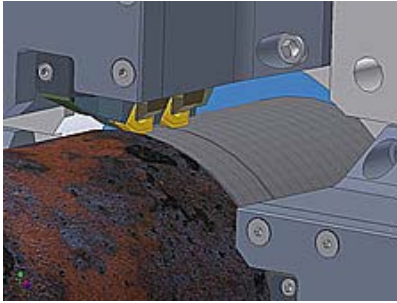
The new advanced design requires dramatically fewer wear components be changed by the operator when processing bars across the size range capability of the machine.

Several important advantages are derived from this new design:

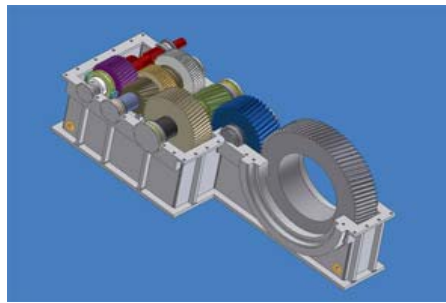
- Fewer parts need to be purchased, maintained, inventoried and handled at the work station
- Set-up times and cycle times can dramatically be reduced
- Long size campaigns are less important for maximizing through-put
- Lead times can be improved
- There are significant ergonomic advantages for the operator as the number and weight of components are greatly reduced
- The total operating cost of the machine will be reduced

Other design advantages:

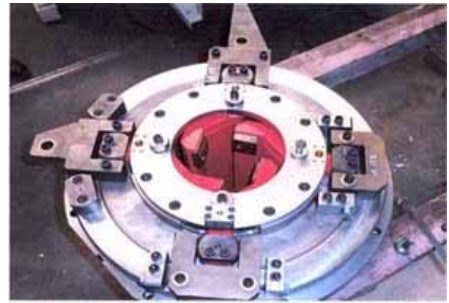
- Provides improved chip clearance
- Coolant volumes and coolant pressure can be increased to the cutting tool area



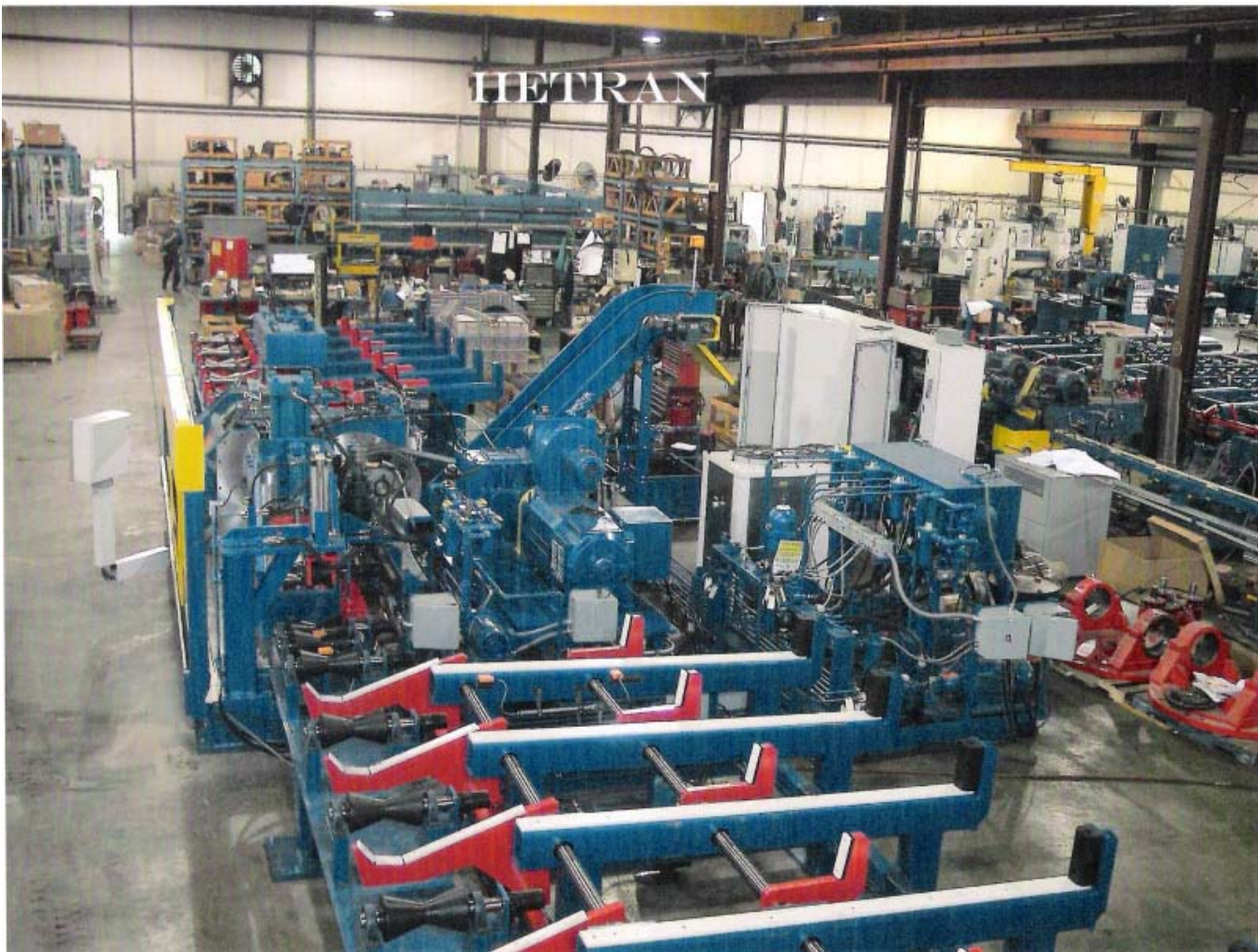
Double-Carbide Tooling



Gearbox For Heavy Stock Removal
And High Productivity



Heavy Duty Self-Centering
Bar Guide Assembly



Recently Manufactured Large Diameter Turning (Peeling) Installation—
Tested And Accepted At Hetran Facility

◇ **Features and Benefits of Hetran Turning (Peeling) Machines**

- More than 35 precision machines for processing bar/tube diameters larger than 8” (200 mm) were successfully built and installed worldwide with field proven technology. Hetran offers larger size ranges from 18” (450 mm) up to 26” (650 mm) to satisfy market demand
- Spindle flexibility to process 3.2” (80 mm) through larger than 20” (500 mm) diameter bars/tubing within a standard size housing
- One set of toolholders covers a bar diameter range from 3.2” (80 mm) to 20” (500 mm)
- More efficient changeover times creating less downtime when processing difficult machining grades of material and intermittent operation
- Newly designed entry and exit bar guide assemblies for optimum performance especially when processing larger diameter bars/tubes
- Low machine maintenance
- Reduced physical inventory of spare and wear parts
- Unique coolant weldment construction dampens vibration effect especially during heavy stock removal. Elimination of costly and maintenance intensive coolant pit
- Heavy duty, yet lighter, structure with small footprint essentially simplifies foundation work
- High productivity yield with exceptional finish quality

◇ **Hetran Processing Cell (BPC)**

The fully computerized, quality performing (with tight tolerance and zero defect), low maintenance bar to bar processing line consisting of two or more of the following components: pre-straightening, turning (peeling), straightening/burnishing, chamfering, abrasive belt polishing, bundling and miscellaneous material handling can be installed either as stand-alone units or a Complete Processing Cell to optimize production and increase profitability.

- ◇ **Call Hetran Inc. +1 570-366-1411 or email hetran@hetraninc.com for additional information**

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