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www.RandolphToolCo.com



Randolph Tool Co. Inc.



Cutting edge advances

BARDONS & Oliver, a century-old US machine tool builder, has begun the assembly process for two 16" cut-off machines. The B&O #316 automatic cut-off lathes combine proven mechanical performance with the 21st century technology that is required in today's mill finishing line environment, where efficiency, productivity and yield play an important role.

Product manager Vernon Fabry said: "These 75,000lb behemoths rely on age-old technology for durability and the latest technology for efficiency." The 2015 version includes 6,600lb range chucks – three sets of jaws cover the full diameter range of the machine (5" to 16").

Independent servo, ball-screw driven slides allow for a "pecking cycle" to mechanically break chips. Quick change cut-off and chamfer units allow automatic tool change capabilities with the use of ATC carousels with HMI interface and laser tracking of pipe position for consistent crop lengths and maximum pipe yield.

OD/ID chamfer tool setting, once a manual operation, is now servo-controlled. Tool tip relationship to the tracking roller is now automatically adjusted for reduced setup time.

Other features include automatic machine height adjustment with auxiliary feedback and hydraulic clamping for added machine stability, high pressure coolant and machine guarding that matches safety requirements.

Bardons & Oliver has adapted to the changing API standards offering auxiliary slides mounted on the main cut-off units. These retractable slides provide for the traditional crop cut allowing the main cut-off tooling to produce hardness test rings.

To maintain productivity and safety, a part unloading system has been integrated into the process. A difficult retrieval activity

has now been automated to bring the sample part away from the machining envelope using an overhead mounted pickoff arm and via conveyor brought to the operator in a safe location. Bardons & Oliver has engineered and built work-rotating, heavy-duty cut-off lathes for seamless and welded pipe mills around the world since 1920.

Bardons & Oliver – USA

Website: www.bardonsoliver.com



NEW PRODUCT

Tube Max Scarf

Flying cut-off (single and twin cut off)

Longer service life achieved by lower damage rate

Features

- Optimized tooth shape, tooth grade, and advanced coating achieve longer service life.
- The embedded tooth and optimized gullet shape achieve longer service life on cutting welding bead smoothly.



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