HVAC Fin Making Solutions

Superior Thin Stock Performance

Precision Lubrication

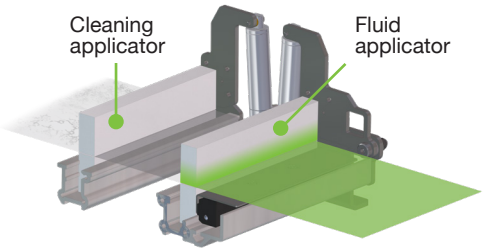
Heat exchange manufacturers know that lubrication is a critical factor that can help ensure productivity in fin making operations. As a world leader in the design and manufacture of fluid dispensing solutions, Unist surpasses the demands of the HVAC industry by providing lubrication solutions that improve efficiency and productivity.

Benefits:

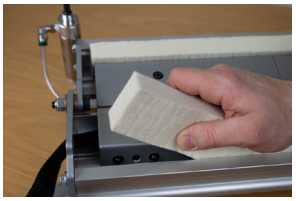
- Increase punch life
- Reduce downtime
- Consistent fin weights
- Reduce fluid consumption

TSL™ Fluid Applicator

The TSL™ by Unist is the ideal solution for precisely and accurately applying fin stamping fluids. The robust applicator utilizes specially engineered felt applicators to wipe a thin film of lubricant onto the stock material - top and bottom. With fluid supplied by the SmartFlow® fluid controller, the TSL™ allows manufacturers to program the exact amount of oil needed to run the fin press at peak performance while providing maximum protection to the tooling. With proven success on hundreds of fin presses around the world, the TSL™ is the ultimate option for lubricating fin stock.



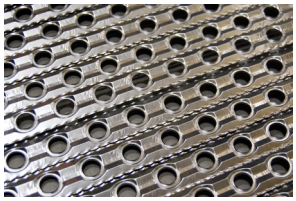
- Precise application of oil for all jobs or collar heights
- Even and consistent stock coating stock as light as 50mg/ft2
- Track oil consumption
- Wiper bar cleans stock before the lubricant applicators
- Cleaner application than dip tanks, spray nozzles or electrostatic lubrication
- Built-in alert monitoring
- Compatible with a broad variety of fluids
- Easy to change felt applicators
- Coat stock from 9” to 45” wide



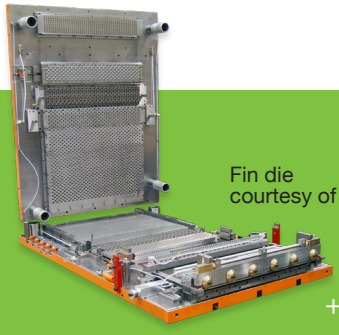
Easy felt applicator replacement

Cleans & lubricates

Individually controlled applicator pressure



No excess oil



Fin die
courtesy of Burr Oak Tool, Inc

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SmartFlow®

SmartFlow® lets you take full control of stock lubrication on your fin press. With Smartflow®, creating lubrication jobs is quick and simple. Smartflow® monitors the lubrication process, tracks fluid consumption, and alerts operators to any lubrication issues.

Designed around an easy-to-use operator interface, the SmartFlow® provides a guided setup designed to help HVAC manufacturers deliver the exact amount of fluid that their job requires. Fluid film thicknesses can be independently adjusted on top and bottom of the material, as well as across the width in 9” wide zones.

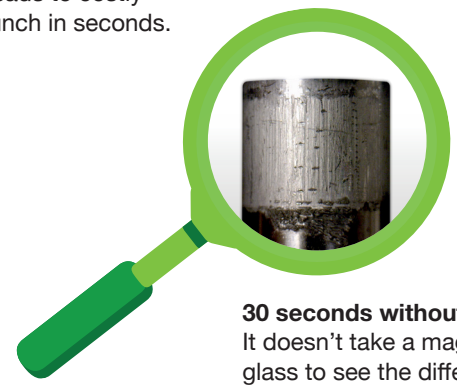
Superior Protection

Damaged tooling is expensive to replace and leads to costly downtime. Inadequate lubrication can ruin a punch in seconds.

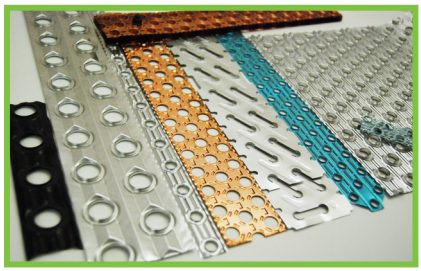
New

VS

Damaged



30 seconds without lube
It doesn’t take a magnifying glass to see the difference



When it comes to protecting your investment in fin dies, the SmartFlow® delivers!

Pierce and Enhance Oiling System

The pierce and enhance stations are the critical areas of a fin die. Protect these vital areas by adding Unist’s state of the art Pierce and Enhance Oiling System and gain the accuracy and repeatability that other systems and improvised methods lack. The Pierce and Enhance Oil System uses reliable positive-displacement pumps to deliver lubricant consistently regardless of changes in fluid viscosity. Users can precisely dial in the amount of lubricant delivered to the Pierce and Enhance die stations and monitor the flow of oil to ensure consistent lubricant delivery. When installed with a SmartFlow®, oil can be supplied directly from the SmartFlow’s® existing oil tank.

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