

JET★STAR™

Strip Dryers for the Metals Industry



A CECO Environmental Company

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Strip Drying System featuring High Efficiency, Uniform Drying and Stable Operation

The BUSCH International JET★STAR strip dryer uses high volume, low pressure heated air to rapidly dry moving metal strips. JET★STAR strip dryers produce predetermined functional wiping patterns on the strip surface. Air flow and thermal energies are applied in an intensive and uniform manner. This results in rapid water disengagement and almost instantaneous mist removal from the strip. Spent heat is dissipated in the dryer thus reducing redeposition of airborne fog and mist.

With JET★STAR the uniformity and repeatability of the drying process across and along the strip enhances film disengagement, mist transport, and evaporation. Problems associated with recirculating systems such as the buildup of CO₂, CO, humidity, temperature, and corrosion are substantially eliminated.

JET★STAR systems are extremely flexible. The design incorporates ease of adjustment of size and velocity of the dryers ambient and/or hot zones. System operating economy can be further improved by an optional feature for Dryer Active Width Adjustment.

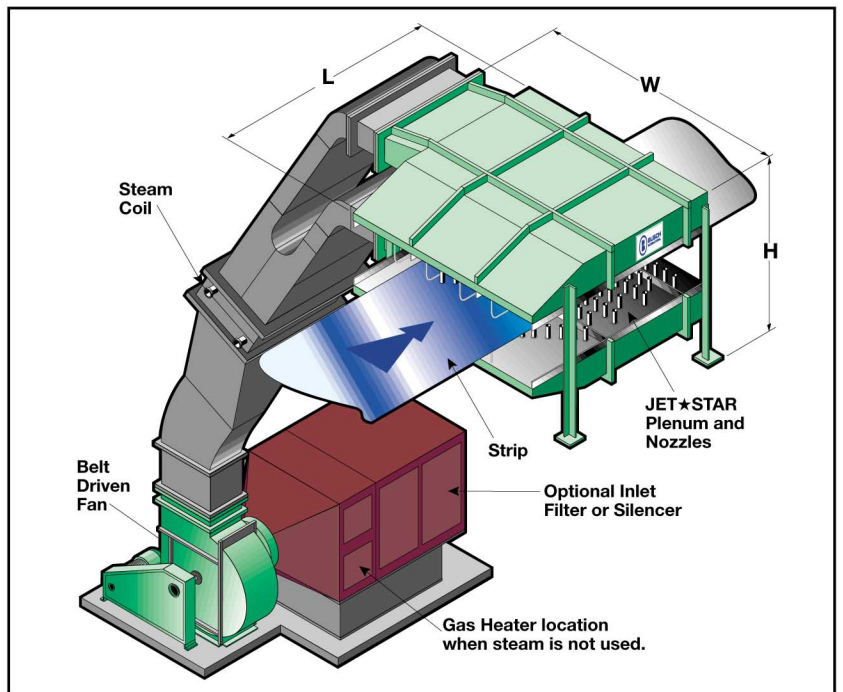
JET★STAR strip dryers are designed using commercially available centrifugal fans which consume less horsepower and create less noise than other designs.

Most JET★STAR dryers are installed after a set of wringer rolls. A typical JET★STAR strip drying system consists of a supply air fan, connecting duct, flow control dampers, air heater, and the JET★STAR strip dryer. Steam or natural gas fired heating systems are available.

The JET★STAR strip drying system uses heavy gauge carbon steel duct and plenum construction. The patented JET★STAR nozzles are securely fastened to a heavy gauge tube sheet protected from strip breakage.



Two Jet★Star Strip Dryers for a steel pickle line application.



A typical JET★STAR strip dryer arrangement.

Dimensional Data

MODEL NO.	STRIP SPEED (FPM)	STRIP W	UNIT			HP
			W	L	H	
JSD-48-300	300	48"	7'-6"	6'	7'-6"	30
JSD-60-300		60"	9'-0"			
JSD-72-300		72"	11'-0"			
JSD-48-500	500	48"	7'-6"	7'	7'-6"	40
JSD-60-500		60"	9'-0"			
JSD-72-500		72"	11'-0"			
JSD-48-750	750	48"	7'-6"	9'	7'-6"	50
JSD-60-750		60"	9'-0"			
JSD-72-750		72"	11'-0"			

High speed dryers are available for strip speeds up to 2500 fpm. Dimensions and sizes are for reference only. Actual horse power depends on system layout. Add G for Gas or S for Steam at the end of each Model No.

Accessories and Options

- Variable speed drives
- Alternate paint systems
- Horizontal or vertical arrangement
- Support steel and platforms
- Exhaust fans
- Thermal or sound insulation
- Filters for supply air
- Temperature measurement device
- Gas or steam heat source
- Stainless steel nozzles