

# *Acme Surplus Machinery Inc.*

Quality Surplus Machinery for Pulp & Paper

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## **135-inch (3420 mm) Off Machine Coater – C2S or 2 x C1S with In-Line Soft Nip Calender Acme A098136**

This 135-inch (3420 mm) Off Machine Coater has capability to apply either one coater to each side of the sheet or double coat one side with a decurler. It has produced coated two-side wood paper, C1S label paper (single and double coated) and wall paper. It was originally built by KMW and started up in 1974. A major rebuild was done in 1994 by Black Clawson and Kusters to include a 3-roll Matte-on-Line soft nip calender and up-to-date drives and control systems. Maximum roll width is 3420 mm (135 inches). Minimum width coated by the current owners was 3350 mm (132 inches). Roll sizes are up to 1500 mm (60 inches) diameter on a variety of core sizes from 75 mm (3 inches) to 250 mm (20 inches) I.D. Line speed is up to 800 m/min (2625 fpm). The line includes a non-contact air-float turn bar between the first and second coating stations to facilitate double coating of one side. There is also a hydrophilic transfer roll moisturizer decurler for use when making C1S grades. This coating line provides flexibility to produce a wide variety of coated printing papers, coated specialty papers, and coated packaging papers and/or coated paperboard.

The coating line consists of a turret unwind for rolls up to 1500 mm (60 inches) diameter weighing up to 5,000 kg (11,000 pounds) with flying splicer. From the unwind, the web goes to a web guide and pull stack to control tension, then through a base stock scanner. The first coating station is an applicator roll blade/rod/Vari-Bar coater (metering elements can be switched) that can apply 8 – 23 gsm at 60% solids. The first coater is equipped with a Lamort cleaning blade to keep the backing roll clean. Drying after the first coater is done by 4 steam heated hot air impingement dryers. There is a felted 1500 mm (60-inch) diameter dryer cylinder to provide web tension control and a smooth sheet run. If C2S paper is being produced, the sheet goes directly through a scanner to a pull stack and scanner ahead of the second coater. For production of double-coated C1S paper, the dried sheet from the first coater goes to a non-contact air-float turn bar for inversion, then to the pull stack and scanner before the second coater. The second coating station is an applicator roll blade/rod/Vari-Bar coater (metering elements can be switched) that can apply 8 – 12 gsm at 60% solids.

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Drying after the first coater is done by 4 steam heated hot air impingement dryers. There is an S-wrap over two 800 mm (30-inch) diameter cylinders following the second coater dryers. The second S-wrap cylinder is felted. Following the S-wrap is a infrared edge dryer unit. The sheet path then goes through a 3-roll hydrophilic transfer roll moisturizer to provide curl control on C1S grades and then through a moisture sensor. There is a cooling section consisting of three 1500 mm (60-inch) diameter cylinders with the top two cylinders felted. Calendering is done inline by a 2-nip 3-roll Kusters Matte-on-Line soft nip calender. There is a scanner between the calender and Pope reel. There is a Sheahan belt threading system.

This coater was recently shut down and is in excellent condition. The drive is DC sectional with 1,232.5 kW installed power. Additional power requirements for oscillating doctors, recirculation pumps, hood fans and other miscellaneous uses is 12 kW. Steam consumption is 130 kg/hour.

Photos and a front elevation drawing are available.