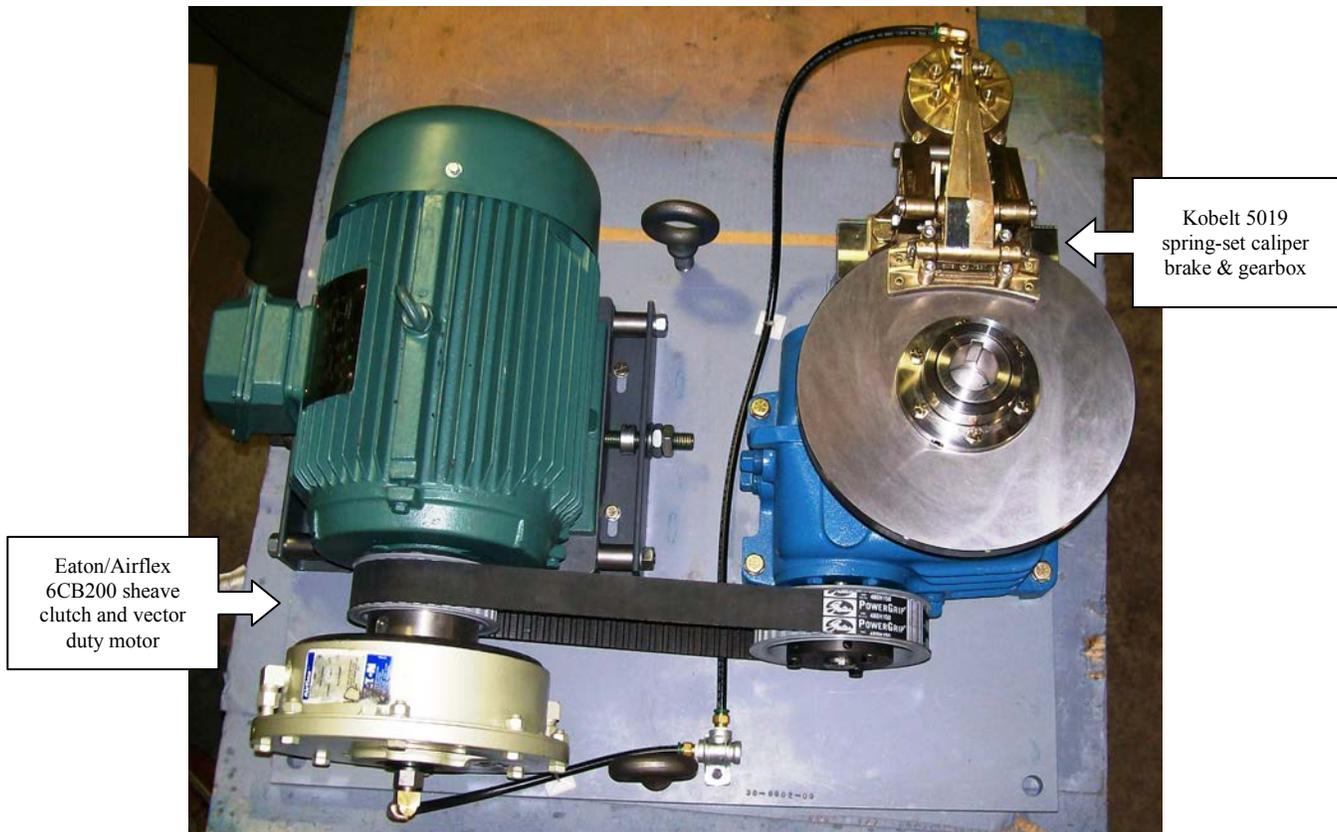


## EATON/AIRFLEX 6CB200 SHEAVE CLUTCH & KOBELT 5019 CALIPER BRAKE APPLICATION



INDUSTRY: METAL FORMING

APPLICATION: Turntable drive

**BACKGROUND:** Our customer has a second operation which is performed as the stamping comes out of the forming press. The part slides onto a turntable which rotates the part so additional operations can be completed as the turntable rotates. The original turntable was driven by a Eurodrive variable speed drive package. The customer found it difficult to maintain the precise speed of the turntable to coincide with the parts exiting the stamping press due to the variable speed belt and component wear caused primarily by the high RPM of the motor. The customer would physically have to make mechanical adjustments to correct the speed changes. BrakeTechnique<sup>®</sup>, Inc. designed a complete replacement drive package which would drop into the existing envelope available. The drive package is powered by a vector duty motor which has an Eaton/Airflex 6CB200 sheave clutch mounted to it. The clutch allows the turntable to be stopped without shutting down the motor...unlike the original design. On the output side of the gearbox, a Kobelt 5019 spring-set caliper brake was incorporated to stop the table and hold it in position when the clutch is disengaged. With the help of a vector drive controller, the customer can make speed adjustments simply by turning a knob on the controller. The new package allows the customer to “set it and forget it” since the speed variations due to wear have been eliminated.

**ADVANTAGES:** One source, one purchase order for the complete turn-key drive package. There is minimal wear due to the combination of the clutch and the brake operating on the same air circuit (i.e.: when the brake is “on” the clutch is “off”...and visa-versa) and much slower component speeds. There is virtually no maintenance required. Setting the table speed takes just seconds and adjusting the timing so it coincides with the forming press is simple.

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