

World's leading manufacturer of Eddy Current drives, brakes and controls

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PULP AND PAPER INDUSTRY

For many years, Dynamatic[®] Eddy-Current equipment has been selected for automatic paper-making machinery because of its basic simplicity, ease of maintenance, low initial cost, and long, trouble-free operation.

Dynamatic Eddy-Current clutches, drives and brakes, with their compact, remotely located electronic controllers, all contribute to low-cost, high-quality paper production. Accurate speed, tension, and torque control, with regulated acceleration, deceleration, and braking, are the prime performance advantages. A special modification to the controller, known as Mutuatrol®, provides automatic acceleration and deceleration control. This circuit applies "brake" or "drive" automatically, in response to a speed adjustment by the operator. The controller for Dynamatic payoff brakes provides constant tension throughout the reduction in roll diameter. It also contributes to constant tension control during acceleration and decelerations, which is so important to the manufacture of fine paper.

The pulp and paper industry involve three basic areas: paper making, paper converting and printing. Paper converting and printing of one kind or another can be found in all states, while paper making can be found in most states. Because of the universality of the industry and the demand for paper and paper products, the paper industry is one of the largest industries for adjustable speed electrical drives.

There are numerous applications for adjustable speed drives in the paper industry—possibly more than in any other industry. All types of drives are used, including constant torque, constant horsepower, fan loads, etc. The following list shows some of the most common applications for which Dynamatic has furnished drives. Most of these applications can be done with any of the three drives: Eddy-Current, DC or adjustable frequency. All the applications on this list have been done using Dynamatic Eddy-Current drives. Included in the list are applications spanning the horsepower range from fractional to several thousand horsepower drives.

Typical adjustable speed drive applications in the paper industry are as follows:

1. Wood Room Drives

Log Conveyors Drum Rolls Slashers Chippers

Log Feeders Chip Conveyors

Barking Drums Grinders

2. Pulping Room Drives

Chip Conveyors Lime Feeders

Feeder conveyors Deckers
Chip Meter Savealls

Agitators Bark Presses

Digester Drives Refiner Feed Screws

3. Machine Room Drive

Rectifier Rolls Breaker Stacks
Line Shafts Size Presses
Line Shaft Helpers Reel Drives
Suction Couches Unwinders

Lump Breakers Rewinders, Surface Presses Rewinders, Center Smoothing Rolls Mount Hope Rolls

Felt Washers Rider Rolls

4. Converting Drives – General

Laminators Rewinders, Surface Embossers Rewinders, Center

Collators Folders
Printers Cutters
Coasters Sheeters

Slitters Delivery Conveyors

Formers

5. Converting Drives - Printing

Printing Presses Fans

Printer – Slotter Unwinders Pumps Winders

6. Boiler Plant And Chemical Recovery Drive

Hog Fuel Conveyors

Bark Presses

Conveyors

Lime Kiln Feeders

Lime Kiln Drives

Salk Cake Feeders

Strokers

High humidity and the presence of chlorine or sulphur are characteristic of most paper mills. Many drives involved with chip handling, digesting, bleaching, and the wet end of the paper machine are frequently hosed down. Some drives are located outdoors and are therefore exposed to all sorts of weather conditions. Eddy-Current drives have special paper mill modifications available.

Control requirements of the paper industry are usually relatively simple. In some areas, particularly on the paper machine itself, drift and tracking accuracy are the main points of consideration. In many areas of paper converting and printing, load regulation is also extremely important. Control equipment is available to meet all the industry requirements. The actual specification of control accuracies (load regulation, drift, tracking) is very important and is a point that should be addressed when considering controls, such as our Model EC-2000 Digital Control.

For further information or details on these and more pulp and paper applications, please contact one of our application specialists.