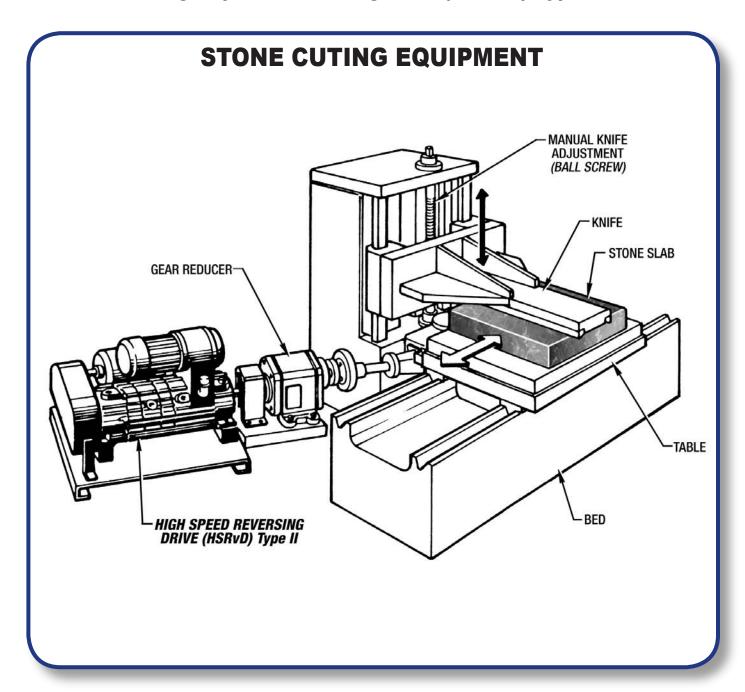
## **APPLICATION BULLETIN**



**APPLICATION:** Stone Cutting Equipment

**INDUSTRY: Stone Cutting and Facing** 

PRODUCT: High Speed Reversing Drive (HSRvD) Type II



## AB-01-24 - 3/31/2005

## STONE CUTTING EQUIPMENT

**WHERE THEY ARE USED:** Many stone cutting plants use a reciprocating table to cut stone either to a specific dimension or to "clean up" a surface of a stone.

**HOW THEY WORK:** An operator adjusts the position of the blade manually. The stone is indexed forward beneath the blade and is cut to desired specs. When the stone bed is full forward a mechanical limit switch is actuated and the table returns.

**PROBLEMS SOLVED:** The stone bed originally indexed forward by a 30 HP 1800 RPM motor and a dry friction clutch. Constant maintenance and downtime on this clutch created a loss of production as well as late deliveries to customers.

## **IMPORTANT FEATURES:**

- Clutches reversed allowing the motors to run continuously.
- Clutch brake is totally enclosed allowing for long life in a hostile environment.
- Air set brake and clutch provided a soft acceleration and de-acceleration.
- Shock load to table and drive system have been greatly reduced due the oil in the reversing drive.
- Oil cools and lubricates the friction discs to provide long life.





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