

### SPINDLE CONTROL AT APRON

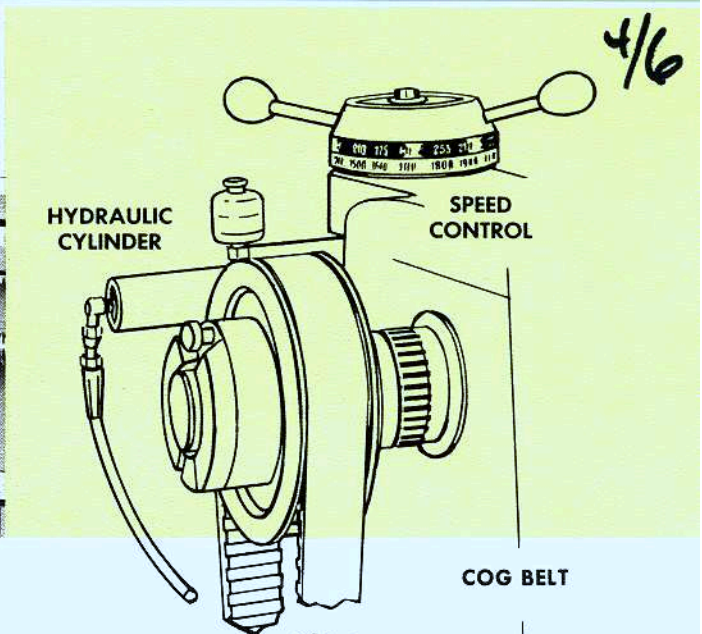
*Right at the job*, start, brake or jog the spindle without stopping the motor — lever at side of apron controls Clausing's clutch/brake countershaft. And a kick-out on control rod can be positioned to disengage clutch automatically — stopping spindle and feed — as apron travels toward headstock.

A single lever engages either cross or longitudinal power feeds thru positive gear clutch.

Cross and compound slides are fitted with tapered gibs. Feed screws have anti-friction thrust bearings — dials are direct-reading.

Apron is totally enclosed, double walled — gears and shafts run in bath of oil.

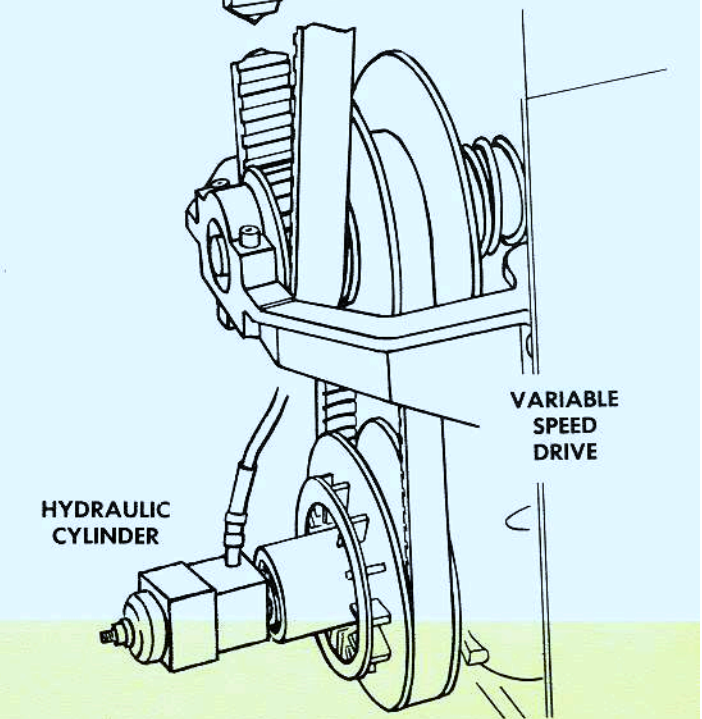
Slip clutch and shear pin protect against overload. Interlock prevents simultaneous engagement of feeds and half-nuts — threads on lead screw are used for threading only.



HYDRAULIC CYLINDER

SPEED CONTROL

COG BELT



HYDRAULIC CYLINDER

VARIABLE SPEED DRIVE

## t—infinitely variable speeds to 2000

— smooth operation, long service life.

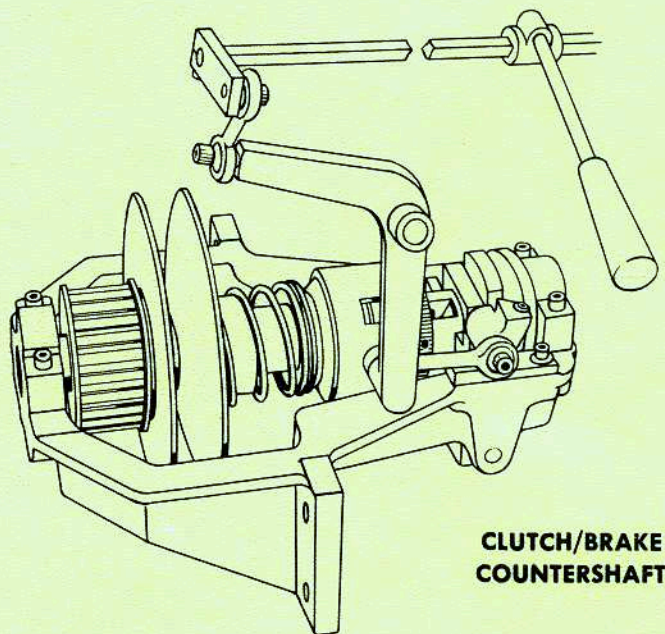
Other features contributing to the superiority of the Clausing drive:

- machined and balanced pulleys
- large, lubricated-for-life ball bearings
- dynamic balancing of *entire* drive after motor is installed.

### CLUTCH/BRAKE COUNTERSHAFT

You'll like this Clausing exclusive — start, jog or stop spindle *while motor is running* — clutch/brake countershaft does it.

Lever at apron controls fast-acting multiple-disc clutch and disc-type brake. Brake is self-adjusting — overriding plunger holds brake "on" until clutch is engaged.



CLUTCH/BRAKE COUNTERSHAFT