TO FIGURE INDEX TIME

The motor speed times the pitch diameter of the motor pulley divided by the drive shaft pulley pitch diameter times (934) gear divided by large gear on compound gear (MB-41) times the small gear on the compound gear (MB-41) divided by driving clutch gear times quick index drive gear divided by quick index driven gear times (bevel gear) driving clutch bracket gear divided by (bevel gear) on end worm drive shaft times worm on worm drive shaft divided by front worm wheel equals R.P.M. of cam shaft during index.

The following is an example of how to figure index:

Motor Speed	(75Cycle) Motor Pulley		(934)Gear		Small Gear Compound		Quick Index Drive Gear		Bevel Gear	Worm		Cycles Per Minute
$\frac{1745}{1}$ x	$\frac{7.4}{8.6}$	x	$\frac{32}{32}$	x	$\frac{26}{104}$	x	$\frac{80}{40}$	x	$\frac{24}{24}$ x	$\frac{6}{60}$	=	$\frac{75.08}{\text{R.P.M. of Cam Shaft}}$
	Drive Shaft Pulley		Large Gear Compound		Driving Clutch Gear		Quick Index Driven Gear		Bevel Gear	Worm Wheel		

Now looking at the above calculations, it can be seen that by changing the motor pulley, index time can be changed.

TO FIGURE HIGH SPEED TIME IN SECONDS

$\frac{60 \text{ Seconds divided by 75 cycle (Indexes in High Speed)}}{2} = \frac{.8}{2} = .4$ of a Second From 50 to 0