00-7

Calculations

Transmission ratio "i," computing

Transmission ratio

Transmission = No. of teeth : No. of teeth ratio driven gear drive gear

Ratios Formula

iG = gear ratio ZG2 : ZG1

iA = axle ratio ZA2 : ZA1

iov = overall ratio iG x iA

Example:

Calculating:

iG = 30:38 = 0.789 **iA** = 37:10 = 3.700**iov** = $(30:38) \times (37:10) = 0.789 \times 3.700 = 2.921$