Formula to calculate gear pump displacement.

$\mathbf{Q} = \frac{\pi}{2} \quad \mathbf{x} \quad \mathbf{b} \quad \mathbf{x} \ (\mathbf{d}\mathbf{a}^2 - \mathbf{a}^2)$

 $Q = Displacement cm^3/rev.$

b = *Gear Width cm.* (see photo 1)

da = Gear tip diameter cm. (see photo 2)

a = Gear Centres (when meshed) cm. (see photo 3)

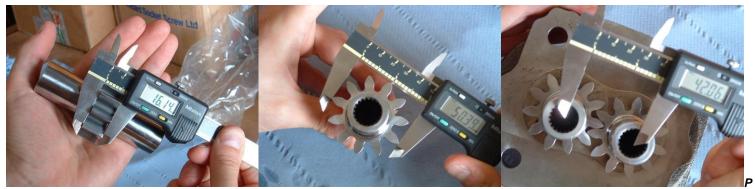
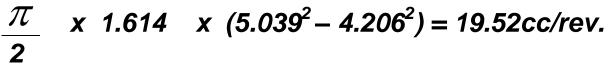


Photo 1 – shows gear width 1.614cm

Photo 2 – shows tip diameter 5.039cm

Photo 3 - shows gear centres 4.206cm

Example gear set shown



Please note this is a general guide and cannot be relied on to be 100 % accurate (mind you the gear set in the photo is actually 19cc so it works pretty well). UHE do not accept any liability for misapplication of this information