Drilling Formulas

SPEEDS & FEEDS (inch)

RPM SFM x 3.82 ÷ D SFM RPM x D \div 3.82 = IPR x RPM IPM **IPR** = IPM ÷ RPM Tim in Cut (sec.) Hole Depth (inch) ÷ IPM x 60

METRIC TO INCH CONVERSION

SFM m/min x 3.28 SFM ÷ 3.28 m/min IPM mm/min ÷ 25.4 = IPM x 25.4 mm/min **IPR** mm/rev ÷ 25.4 = IPR x 25.4 mm/rev = inch x 25.4 mm mm ÷ 25.4 inch = = psi \div 14.5 bar psi bar x 14.5 = $= L \times 3.79$ gal L gal ÷ 3.79 =

LEGEND

RPM revolutions per minute (spindle speed) SFM surface feet per minute (cutting speed) IPM = inches per minute (feed rate) **IPR** inches per revolution (feed per revolution) = m/min (vc) meters per minute (cutting speed) mm/min (vf) millimeters per minute (feed rate) mm/rev (f) millimeters per revolution (feed per revolution) tool diameter D