The Application Note is pertinent to the Mentor II/Quantum III Drive Family

A Simple Ratio Control Scheme

I’ve been asked on several occasions about “How could one achieve simple ratio control without encoder feedback and without the MD-29 and associated programming costs? “ The User in these cases did not need or want digital lock nor want to upgrade from DC tachs but would like to give the Operator digital control of ratio.

Line Speed=1000FPM
FPM Setpoint=1000FPM
Draw Ratio=1.234
Draw Roll = 1234FPM

With the CTIU Operator Interface (keypad/display), the Line Speed setpoint could be directly entered by the Operator or trimmed with Up/Down arrows. The Ratio could be directly entered by the Operator or trimmed with Up/Down arrows also. By using the CTIU, Fault Messages, general Drive Info such Arm V, Arm Amps, %Load, Motor RPM etc could also be brought to the User in simple terms as well.

Questions ?? Ask the Author:
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