

## General Kinematics Variable Force (VF) Wheels

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Proven in thousands of applications, General Kinematics Variable Force (V-F) wheels enable our PARA-MOUNT II Feeders and Un-Coaler / Vibra-Flow Activator Feeders to smoothly deliver infinitely variable feed rates, providing 90 to 100% turndown. Our unique design varies the drive exciting force by instantaneously positioning the wheel counterweights relative to the center of drive rotation, thus changing centrifugal force, while the motor continues to operate at the design RPM.

The V-F control permits "stop and resume" feed, even at minimum rates. They respond accurately to belt scales, load cells, or other feed back signals for precise proportional feed control. GK V-F Wheels are mounted on our special vibratory motors using a double extended shaft. Our V-F Wheels require an 80 PSI air supply to control them. Because they utilize a closed end system, they do not consume air. You can estimate 1 CFM requirement per Activator Feeder.

V-F Wheels can be controlled either pneumatically or by hydraulics. Both systems are offered in either our manually operated pneumatic control box, or via hydraulic pump and our automatic electro-pneumatic or hydraulic control system. Our automatic systems are designed to receive a 4-20 MADC signal, from a remote location, and converts it to a 0 to 80 PSI air or hydraulic supply to the V-F Wheels, via customer's PLC, working in conjunction with a belt scale down stream.

