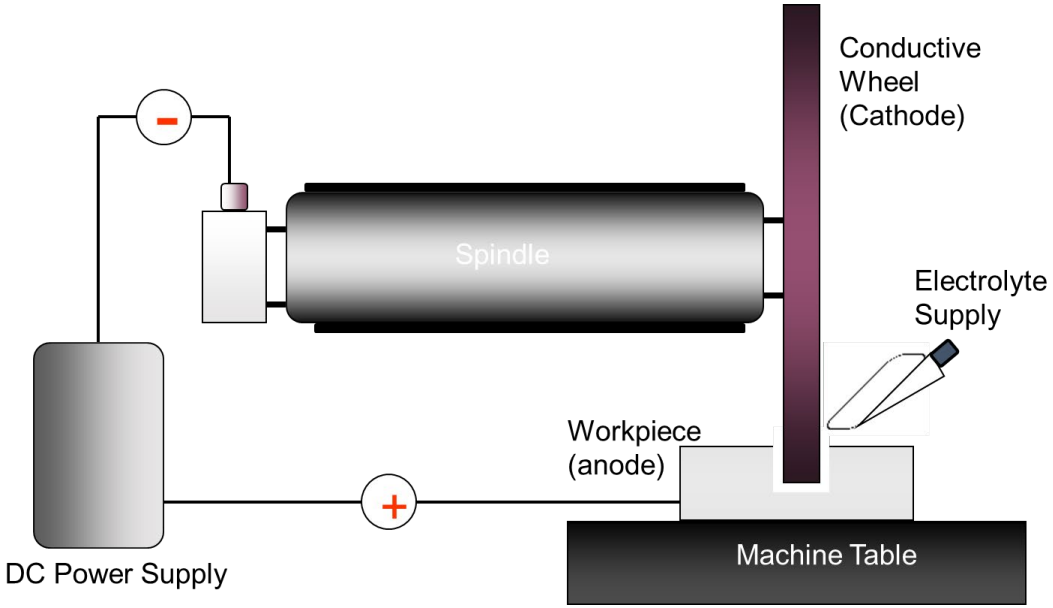
TRIDEX Technology
An MMT Company

Electrochemical Grinding (ECG) explanation



ELECTROCHEMICAL GRINDING (ECG)

- A conductive grinding wheel **(cathode)** and conductive workpiece **(anode)** are connected to a DC power supply while a conductive saltwater solution **(electrolyte)** is applied to the cutting surface.
- DC current flow causes oxidation and reduction to dissolve the metal surface **(Electrolysis)**.
- The conductive abrasive wheel removes the oxidized material and increases the cut rate.
- The metal removal rate is dependent on feed rate, DC current flow, and other cutting parameters

ECG ADVANTAGE	
❑Completely burr-free cut	❑No work hardening
❑Low cutting forces for thin-walled tubes	❑Long wheel life
❑Low cutting temperatures	❑Fast, precise cuts
❑No heat affected zone	❑Almost all metals can be cut burr-free