

# unibor

## Unibor EQ100/E100FR Overview Variable Speed and Drill Instructions

### Motor

- Variable speed control knob is located on the top of the motor, it is a dial numbered 1-5.
- Inside the motor, just under the variable speed dial, is a circuit board that senses torque overloads, and when tripped will stall the motor.
  - This prevents damage to the gears and forces the user to make the optimal cut.
    - When this sensor is tripped, simply push the red button on the start/stop switch, then push the green again to resume drilling.
- The UNI-3 motor has 2 gears, gear change slide is located on the side of the motor.
  - When this black slide is in the down position, you are in the lower gear (40-130 RPM)
  - When in the up position, you are in high gear (160-450 RPM)
    - To select proper gear and dial refer to this chart (Diameters assume HSS or Cobalt cutting mild steel. For harder steels decrease RPM)

<u>Dial #</u>	<u>Low gear (black slide in down pos)</u>	<u>High Gear (black slide in up pos)</u>
1	50 rpm (3-1/4 - 4)	160 rpm (1-9/16 - 1-3/4)
2	70 rpm (2-3/4 - 3-3/16)	230 rpm (1-3/16 - 1-1/2)
3	90 rpm (2-3/8 - 2-11/16)	305 rpm (1-1/16 - 1-1/8)
4	110 rpm (2-1/16 - 2-3/16)	380 rpm (13/16 - 1)
5	130 rpm (1-13/16 - 2)	450 rpm (7/16 - 3/4)

**Speed Control Dial**



**Gear Change Slide**



**To Operate (E100FR ONLY):** Turn magnet on. If there is a fwd/rev toggle switch, click up into 'fwd' setting. Make sure you are in proper gear (*do NOT try and change gear when motor is running*). Push green 'on' button. Adjust speed with top dial.

**For cutting guidelines refer to 'Guide to Good Drilling' inside drill case.**