**Field Automatic Gradation Unit (AGU)**

The Field AGU is used to automatically run gradations on aggregate and related materials in the Field. After receiving the sample from a Belt Sampler or Similar Device, the Field AGU shakes (Utilizing Vibratory Motors) the sample and then deposits the material retained on each screen (ASTM Approved Screens - Like the ones used in a Gilson Shaker) into the weigh hopper. The AGU has a frequency drive that allows a user to move the frequencies up and down to insure material on the screens is deposited into the weigh hopper. There is an optimal resonant frequency for each screen size. The weigh hopper weighs the sample and the control system performs all calculations. The control system also generates an Excel Spreadsheet with Percent Passing, Percent Retained, Percent Cumulative, Etc. Typically a Sample can be shaken and a report generated in approximately 10 minutes.

150lb. Capacity Field Automatic Gradation Unit (AGU)

**GENERAL**

The Automatic Gradation Unit (AGU) is a particle size analyzer that conducts a complete sieve analysis automatically in the field and transmits the accumulated data to a computer, where the data is saved in an Excel spreadsheet for further manipulation and analysis. The AGU’s sample capacity is 150lbs.

The AGU can accommodate up to 7 sieves (36” x 42”), which has ASTM approved screen wire. These sieves are clamped into individual rugged steel drawers. These drawers are interchangeable and are held in the AGU Vibrating cabinet by a secure binding system.

**Deliverables:**
- One AGU with 7 drawers and screens (36” x 42”). Screen sizes are 3.5”, 2 ¼”, 2”, 1 5/8”, 1”, ½”, and 3/8. *Note additional drawers with screens are available upon request. Customer can install screens in drawers with common hand tools
- Control System with Computer, Software, and Printer. Data is saved in an Excel Format.
An Air Cylinder is used to rotate the AGU Carriage into a vertical and horizontal position. Horizontal Position is used to unload each screen into the weigh hopper. Horizontal position is also used to clean screens.
- Two Vibratory Motors Mounted on AGU are used to set the optimum resonant frequency for each screen size.
- Canopy for AGU
- Drizzle Hopper for AGU. Hopper deposits sample onto screens.
- Weigh Hopper with 3 load cells are utilized to weigh graded material.

50lb. Capacity Field Automatic Gradation Unit (AGU)

The Automatic Gradation Unit (AGU) is a particle size analyzer that conducts a complete sieve analysis automatically in the field and transmits the accumulated data to a computer, where the data is saved in an Excel spreadsheet for further manipulation and analysis. The AGU’s sample capacity is 50lbs.

The AGU can accommodate up to 7 sieves (18" x 24"), which has ASTM approved screen wire. These sieves are clamped into individual rugged steel drawers. These drawers are interchangeable and are held in the AGU Vibrating cabinet by a secure binding system.

Deliverables:
- One AGU with 7 drawers and screens (18" x 24"). Screen sizes are 3.5", 2 ¼", 2", 1 5/8", 1", ½", and 3/8. *Note additional drawers with screens are available upon request. Customer can install screens in drawers with common hand tools
- Control System with Computer, Software, and Printer. Data is saved in an Excel Format.
- An Air Cylinder is used to rotate the AGU Carriage into a vertical and horizontal position. Horizontal Position is used to unload each screen into the weigh hopper. Horizontal position is also used to clean screens.
- Two Vibratory Motors Mounted on AGU are used to set the optimum resonant frequency for each screen size.
- Canopy for AGU
- Drizzle Hopper for AGU. Hopper deposits sample onto screens.
- Weigh Hopper with 3 load cells are utilized to weigh graded material.