

LIGNIN SS 3030 Automated Soil Scooper

Physical

Pneumatically actuated gripper - 80 psi
40" x 12" x 30" T5 Aluminum Gantry
80V Power Supply
Desktop Computer
Load Cell communication box
3 NEMA 34 stepper motors
6 limit switches – 2 per axis
Infrared Photo-eye soil-level sensor
Pneumatic tapper

Performance

8.5 cc scoop size
0.01g load cell readability (2 100 g load cells)
Consistency - 3% variability
Average scooping time – 16 seconds/sample

Software

Custom Software in Delphi
Unattended operation
Real-time sample position display
User-customizable reports, with print and export options

PC configuration

Pentium/Celeron 466 MHz processor
CD-ROM drive, 3.5 inch floppy drive
Microsoft Windows[®] 98
PC Motion Control Card

Miscellaneous Requirements

Includes on-site installation and training
80 psi air supply via ¼" line