

P510 Programmable Core Cutter



Advanced Programmable Core Cutting

The P510 features automated core feeding, advanced programmable control for enhancing cut-to-length performance and a PLC control with touch-screen display for exceptional flexibility. The PLC integrates easily with optional automated parent and cut core handling systems for enhanced automation and labor reductions, and with optional printers used to mark cut lengths on individual cut cores.

P510 Programmable Core Cutter Features:

Free-Standing Control – The operator interface features an Allen-Bradley PanelView touch-screen display on a free-standing pedestal that can be placed wherever the operator finds most convenient.

Easy Setup – The touch-screen control makes this unit extremely easy to operate. Set-up is streamlined by use of intelligent, on-screen operating menus, operator prompts and displayed production data.

Automated Core Advancement – A servo driven ball-screw drive advances the core with perfect speed and control as dictated by the controller.

Clean Cuts – The air-assisted, fixed knife of the P510 makes clean, burnished cuts to within +/-0.015 inch of the targeted length while generating virtually no dust or noise.

Expandable – The P510 can be easily expanded with Automated Parent and Cut Core Handling plus other options to create a completely automated core cutting environment.

Energy Saving – Every Appleton core cutter features an auto-shutoff that turns off the cutter when left unattended, eliminating unnecessary energy costs while minimizing wear on moving cutter parts. As always, workers are safer when unattended machinery is not running.

Simplified Adjustment – When core diameters change more frequently, Appleton's IDC (Instant Diameter Change) option can speed changeovers and improve productivity.

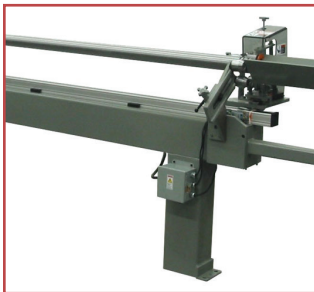
Installation and Training – Professional installation and training services are readily available from skilled technicians with years of core cutter experience.



Free-Standing Allen-Bradley PanelView touch-screen controls



Double guarded fixed knife for operator safety



Tough frame for long service life

Over 60 years of Superior Support

The P510 also comes with an outstanding promise of support. If you should need technical assistance, service or replacement parts, Appleton will be there for you. Appleton still provides parts and service for core cutters built over 60 years ago – you can be assured our tradition of superior support will bring long-term value to your Appleton core cutter investment.

Specifications

Parent core length range

- 5' to 14' in 1 foot increments.
- Note that core I.D.s under 3" limit machine length.

Core diameter range

- 3" I.D. to 13" O.D.
- 1" to 16" with options.

Wall thickness

- 1/4" to 5/8" (includes .660" cores).
- With options, the wall thickness range can be expanded to 1/8" to 3/4". For heavier walls, contact Appleton Mfg.

Cut length range

- Minimum cut determined by core integrity (typically equal to wall thickness).

Cut length tolerance

- $\pm 0.015"$.

Controls

- PLC Based.

Utilities

- 3 phase electrical power, voltage optional
- 80 PSI air, 1 cfm @ 50 cuts/min (cut rate, operator and core dependent).

Options

IDC (Instant Diameter Change) Mandrel System

- For 1 minute diameter changes.

Short Core Tray or Full Length Core Tray

- 55% of parent core length or tray matched to parent core length.

Automated Core Handling

- Systems to load and unload your parent and cut cores.

Knives

- A variety of options that match the cut to your materials.

Stroke Limit

- Used for wall thickness less than 1/4".

Auto-Indexing Knife

- Rotates the knife 9 degrees automatically at operator preset number of cuts. Provides 40 knife positions for uniform cut quality and extended blade life.

Electrical components

- Standard motor starters, control voltage transformers and power disconnects are included on the frame. Customer specified components or locations optional.

Machine Dimensional Chart

Mach		
Size	A	B
60	6'-10 3/4'	10'-2 1/4'
72	7'-10 3/4'	11'-2 1/4'
84	8'-10 3/4'	12'-2 1/4'
96	9'-10 3/4'	13'-2 1/4'
108	10'-10 3/4'	14'-2 1/4'
120	11'-10 3/4'	15'-2 1/4'

