

P520 Programmable Core Cutter



Increased Speed & Advanced Programmable Core Cutting

The P520 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. In addition, the P520 offers improved speed and accuracy over previous P5 Core Cutters.

P520 Programmable Core Cutter Features:

P520 Enhancements – Up to 2x the cutting speed and core loading speed of the P510 and P500. Increased cut length accuracy.

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.

Automated Core Advancement – A belt drive system advances the core with perfect speed and control as dictated by the controller.

Clean Cuts – The air-assisted, fixed knife of the P520 makes clean, burnished cuts to within +/-0.008 to 0.010 inch of the targeted length while generating virtually no dust or noise.

Expandable – The P520 can be expanded with Automated Parent and Cut Core Handling, plus other options, to create a completely automated core cutting environment.

Energy Saving – An auto-shutoff that turns off the cutter when left unattended, lowering energy costs and minimizing wear. As always, workers are safer when unattended machinery is not running.

Instant Diameter Change – When core diameters change frequently, Appleton's IDC (Instant Diameter Change), standard feature on all P520's, speeds changeovers and improves 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



Mid-Core Stabilizer for Increased Speed and Accuracy



Tough frame for long service life

Over 60 years of Superior Support

The P520 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 10' in 1 foot increments.

Core diameter range

- 3" I.D. to 8" O.D.

Wall thickness

- 1/8" to 5/8" (includes .660" cores).

Cut length range

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

Cut length tolerance

- $\pm 0.008"$ to $0.010"$

Controls

- PLC Based.

Utilities

- 3 phase electrical power, 220/440V std, others optional.
- 80 PSI air, 1 cfm @ 50 cuts/min (cut rate, operator and core dependent).

Options

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 3/16" on the circumference

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' |

