

## A301 Automatic Core Cutter



### Entry Level Automated Core Cutting

The A301 is the ideal model for any company's entry into automated core cutting. This rugged, yet affordable, fixed-knife core cutter automatically advances and cuts the core to precise, pre-set lengths while requiring minimal operator attendance. It's the perfect tool for producing quality, low- to high-volume, batch-cut cores in-house quickly and cost efficiently.

#### A301 Automatic Core Cutter Features:

**Simply Automated** – Cores are automatically advanced, automatically cut. Operator needs only set the target length. Now anyone can safely produce quality cores fast.

**Intelligent Control** – The control panel features push-button simplicity with an LCD touch panel screen that displays prompts and accepts operator input. The PLC captures and displays run data and system status, making productivity ever so easy to measure.

**Precise Cuts** – The air-assisted fixed knife cuts to within +/- 0.010 inch of the targeted length.

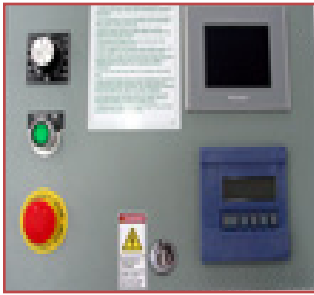
**Clean Cuts** – The fixed knife of the A301 makes clean, burnished cuts while generating virtually no dust or noise – making for a better cut, a quiet machine and a better work environment.

**Expandable** – With its PLC intelligence, the A301 can be easily expanded with Automated Parent and Cut Core Handling, Auto-Indexing Knife and other options that free your operators for other tasks.

**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.

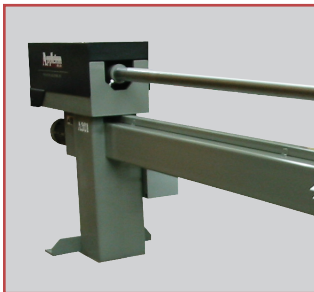
**Installation and Training** – Professional installation and training services are readily available from skilled technicians with years of core cutter experience.



**A301 Operator Panel — showing LCD, simple controls**



**Double guarded fixed knife for operator safety**



**Tough frame for long service life**

## Over 60 years of Superior Support

The A301 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.
- With options, this range can be expanded down to 1" I.D. and up to 26" O.D.

### 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).
- Maximum length: Reference standard cut length in the chart below.

### Cut length tolerance

- ±0.010".

### Utilities

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

## Options

### Extended cut-off target length

- Permits cut core lengths up to extended cut length column in chart.

### Large core diameter

- Extends core diameter capacity to 26" O.D.

### Small core diameter

- Permits core diameters down to 1" I.D.

### Knives

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

### Stroke Limit

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

### Digital Scale

- LED read-out of target position (cut length) for those critical cuts.

### 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.

## Accessories

### Patented IDC (Instant Diameter Change) Mandrel System

- For 1 minute diameter changes.

### Automated Core Handling

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

## Machine Dimensional Chart

| Mach |             |            | Std Cut Length |            | Ext Cut Length |            |
|------|-------------|------------|----------------|------------|----------------|------------|
|      | A           | B          | Max            | C          | Max            | D          |
| 60   | 6'-10 3/4"  | 10'-2 1/4" | 47"            | 15'-2 1/4" | 60"            | 18'-2 1/4" |
| 72   | 7'-10 3/4"  | 11'-2 1/4" | 51"            | 16'-2 1/4" | 68"            | 19'-2 1/4" |
| 84   | 8'-10 3/4"  | 12'-2 1/4" | 60"            | 17'-2 1/4" | 76"            | 20'-2 1/4" |
| 96   | 9'-10 3/4"  | 13'-2 1/4" | 60"            | 18'-2 1/4" | 84"            | 21'-2 1/4" |
| 108  | 10'-10 3/4" | 14'-2 1/4" | 60"            | 19'-2 1/4" | 92"            | 22'-2 1/4" |
| 120  | 11'-10 3/4" | 15'-2 1/4" | 60"            | 20'-2 1/4" | 96"            | 23'-2 1/4" |
| 132  | 12'-10 3/4" | 16'-2 1/4" | 60"            | 21'-2 1/4" | 96"            | 24'-2 1/4" |
| 144  | 13'-10 3/4" | 17'-2 1/4" | 60"            | 22'-2 1/4" | 96"            | 25'-2 1/4" |
| 156  | 14'-10 3/4" | 18'-2 1/4" | 60"            | 23'-2 1/4" | 96"            | 26'-2 1/4" |
| 168  | 15'-10 3/4" | 19'-2 1/4" | 60"            | 24'-2 1/4" | 96"            | 27'-2 1/4" |

