Affordable Automation

The A301 Automatic Core Cutter is designed specifically to meet the needs of the core user who wants to batch cut cores. The automatic core advance-to-target frees the operator for cut core handling. While lower cost than the hydraulic A400, the A301 Automatic Cutter provides the same degree of automation at a slightly slower speed.

True to the Appleton tradition, the cutter is designed to provide years of production service at an affordable price.

Easy to use

Operation is simple... the operator loads a parent core and sets the target to the desired core length. The operator then presses a button on the panel to activate the cutting cycle. The A301 advances and cuts the core until the parent core is consumed. The operator loads another parent core and repeats the cycle. The operators’ panel provides feedback as to run progress and system status.

The PLC control package, air powered knife, ID core drive and electro-mechanical core advance make this system easy to install, operate and maintain.

Quiet operation - the pneumatic knife and electro-mechanical drive are well under OSHA thresholds.

Less down-time - Quick diameter change - in less than 5 minutes for a mandrel, or less than 1 minute with our patented IDC mandrel system.

Expandability - with its PLC intelligence, the A301 is easily expanded to add Automated Parent and Cut Core Handling, Auto-Indexing Knife, Cut Core Counting, and other options that free your operators for other tasks.

Safe work area - the knife guard and area guard protect your staff. The unit shuts down when idle for added operator safety.

Energy savings - The A301 has a timer that shuts down the cutter if it has not been used for an operator settable interval. This saves wear and tear on the cutter.

Fits your needs

The A301 Automatic Core Cutter can be easily configured to your needs. Modular design makes it easy to put together a system that provides the production and quality you want. Can’t find what you need? Challenge us! Put Appleton Ingenuity at Work for you.

The A301 provides you with

Productivity - cutting rates of up to 60+ cuts per minute (rate varies with core wall, diameter, length and density).

Clean, polished cuts - the Appleton Fixed Knife produces a quality cut with virtually no dust or noise. Free wheeling blades and saws cannot match the quality of the fixed blade cut.

Clean knife cut
**Specifications**

**Parent core length range**
- 5’ to 14’ in 1 foot increments.
- Note that core I.D.s under 3” limit machine length to 10’.

**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 21” 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 chart below. Reference also optional extended cut length range.

**Cut length tolerance**
- ±0.010” (3 sigma)

**Utilities**
- 3 phase electrical power
- Voltage optional
- 80 PSI Air
  1 cfm @ 50 cuts/min

**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 21” O.D.

**Small core diameter**
- Permits core diameters down to 1” I.D.

**Knives**
- Models for cutting cores with wall thicknesses up to 1”, plastics, tapes, and non-wovens.

**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.

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**Specifications Table**

<table>
<thead>
<tr>
<th>Mach Size</th>
<th>A (3/4”)</th>
<th>B (2 1/4”)</th>
<th>Std Cut Length Max</th>
<th>Ext Cut Length Max</th>
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<tbody>
<tr>
<td>60</td>
<td>6’-10</td>
<td>10’-2</td>
<td>47”</td>
<td>60”</td>
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<td>19’-2</td>
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