

# Pull and Cut with Repeated Accuracy and Precision

Precisely pull and cut plastic and rubber tubing, rigid tubing, profiles, at precision tolerances and high cutting speeds. Combination Puller/Cutters are available with your choice of puller belt sizes, cutting capacities and pulling torque to meet your specific needs. The Conair CPC provides a long tradition of industrial service, easy setup and precision operation.



**Model CPC-320CSC2**  
(Shown with optional dead stop.)

## Follows the Process for Accuracy

The Conair CPC Series combines a robust puller with a precision cutter for a fully integrated, space saving solution for tubing, pipe and profile producers. With a mast-mounted control for both functions, set-up is fast, easy and consolidated, minimizing the time required for coordinating multiple devices.

The 3 ¼ Hp servo cutter motor provides fast, clean, fly-knife cutting below a safe, interlocked, easy-access hood. Up to 4-inch {101.6 mm} diameter tubing may be precision cut with a range of selectable cutting modes. All functions are easily viewed, set-up and changed through the conveniently-located, mast-mounted touchscreen control, equipped with colorful, intuitive, international graphics for fast, easy understanding.

### ▶ **More torque and motor life**

Eliminating maintenance while improving performance, Conair's unique, in-line gear reducer improves torque while reducing maintenance. CRM and Helical bevel reducers are used on the puller drive system.

### ▶ **Intuitive operator control**

The CPC features a user-friendly, 7-inch {178mm} touchscreen with high visibility graphics and intuitive commands for controlling the puller and cutter. A large pop-up "soft" keypad makes recipe entry fast and easy.

### ▶ **Cutting capacity to 3.75 inches**

Choose belt widths from up 3 to 4 inches {76.2 to 101.6 mm} and nominal traction lengths to 26 inches {660.4 mm}. Belt options are available for cutting corrugated plastic.

### ▶ **Choose cutters for speed or torque**

Standard cutter models include precision 4:1 inline planetary gear reducer for enhanced cutting torque up to 750 RPM.



# Features

**01 Optimum eye-level monitoring**  
Controls are at eye-level and within easy reach.

**02 Easy-access cutter motor**  
Quick-remove cover for easy access to motor during maintenance.

**03 Visible cutter head**  
Clear knife guard lets you view rotating cutter head, blade(s) during operation.

**04 Built-in cleaning**  
Stainless steel blade lubrication tray cleans and lubricates the blade(s) with each pass, and the cutting chamber includes a fitting for drainage.

**05 Controlled extrudate grip**  
Adjust belts and control tension on material by opening/closing belt gap with an easy turn.

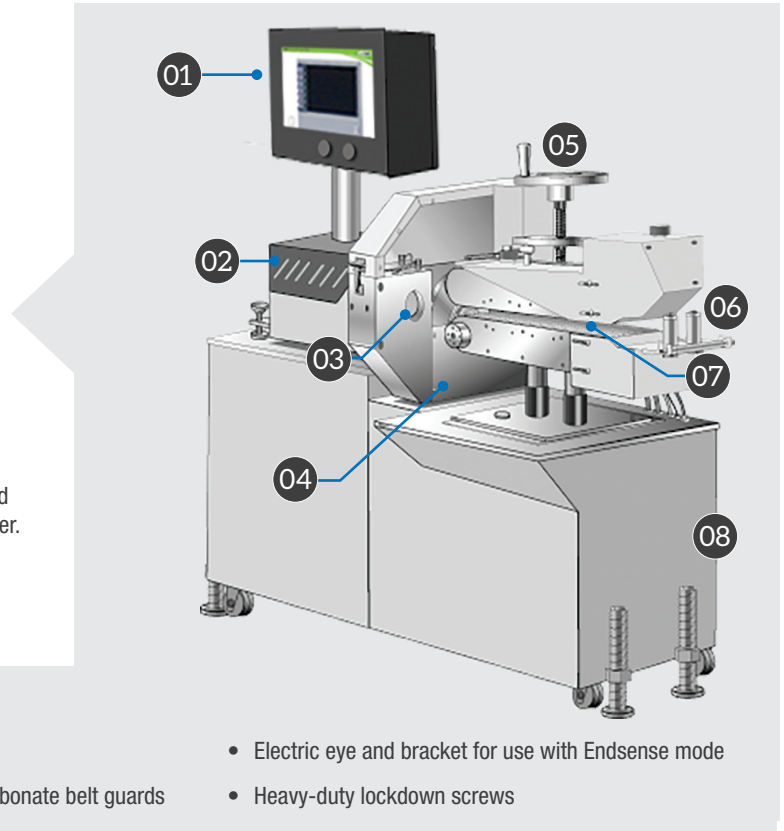
**06 Centered, guided material**  
Adjustable rollers guide material into the belts.

**07 Precise pulling**  
AC vector drive uniformly draws and pushes material through to the cutter.

**08 Optional puller enclosure**

**Safety features include:**

- Polycarbonate knife guard
- Upper and lower clear polycarbonate belt guards
- Electric eye and bracket for use with Endsense mode
- Heavy-duty lockdown screws



# Control

**In-line gearbox reducer** lessens the maintenance required by traditional belt-and-pulley designs. The reducer improves torque performance, improves side load capabilities and extends the life of the servo motor. (Does not apply for L models.)

**Upper and lower belt guards** protect the user and are easily removed when changing the belts of the cutter.

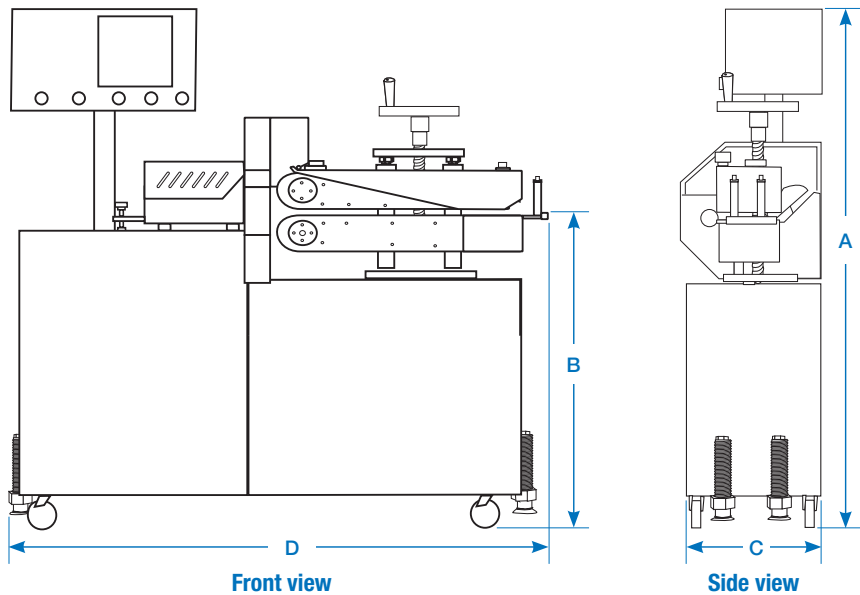
**Standard touchscreen features include:**

- Full-color graphics
- Large easy-to-read display
- Selectable cutting modes, blade speed and Start/Stop functions
- Total access to vector or servo drives for tuning and service

**Digital Belt Gap Sensor**

This option allows you to set the zero point for the belt gap, and then set and measure belt gap to three decimal places.

## Specifications



### Specification Notes

CSC2L cutters do not come with planetary reducers, allowing flywheel operation up to 3000 RPM.

\* Option exists for dual servo pullers for high speeds at minimal backlash.

† FLA data for reference purposes only. Does not include any options or accessories on equipment. For full FLA detail for power circuit design of specific machines and systems, refer to the electrical diagrams the equipment order and the nameplate applied to the machine.

Specifications may change without notice. Consult with a Conair representative for the most current information.

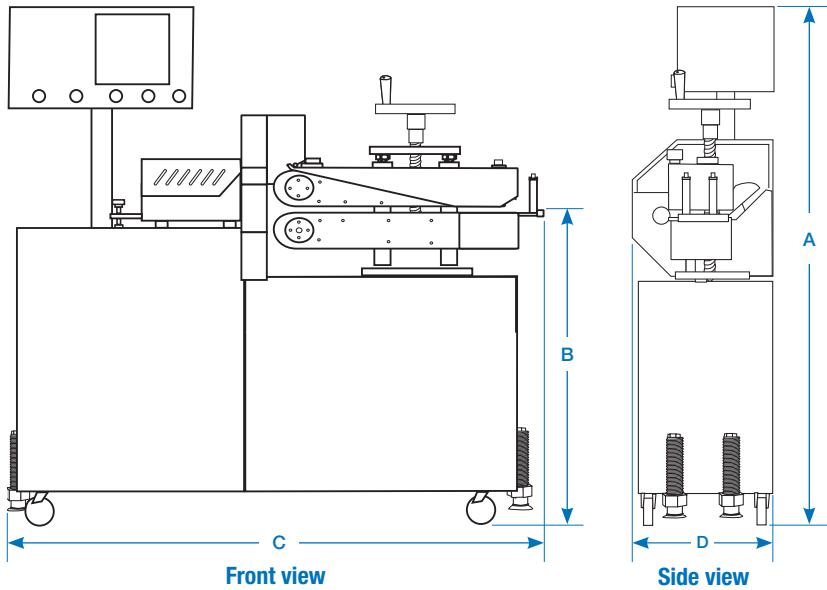
Models	CPC320-CSC2L	CPC320-CSC2	CPC320-CSC3L	CPC320-CSC3	CPC420-CSC3L
<b>Performance characteristics</b>					
Extrudate capacity inches {mm} diameter	1.25 {32}	1.75 {44}	2.25 {57.2}	3 {76}	2.25 {57.2}
CSC cutter motor (servo) Hp {kW}	3.25 {2.4}				
High-torque cutter motor (servo)* Hp {kW}	N/A	3.8 {2.8}	N/A	3.8 {2.8}	N/A
Servo puller motor* Hp {kW}	3.25 {2.4} (optional)				
<b>Dimensions inches {mm}</b>					
A - Height	66.6 {1691}				
B - Height to centerline, ±2 {±50.8}	42.0 {1067}				
C - Width	26.6 {676}				
D - Length	74.0 {1880}				
Belt width ±3/8 {±9.5}	3.0 {76}				
Belt traction length	20.0 {508}				
Feed opening	3.5 {88.9}				
<b>Approximate weight lb {kg}</b>					
Installed	1200 {545}				
Shipping	1300 {590}				
<b>Electrical requirements Full load amps †</b>					
460V/3 phase/60Hz (Std.)	Consult Conair				

## Puller Options

- Upgrade to Emerson 3.25 Hp velocity servo e-drive with plus minus 1/100 percent set speed regulation and additional lower torque at lower speeds including a serial operator interface with feet per minute and totalizing footage counter
- Remote belt speed control with ten turn potentiometer and digital speed display with one hundred feet of cable
- Electronic totalizing footage counter
- Digital belt gap sensor
- High precision flat belts. Recommended for applications with speeds above 200 feet per minute or applications requiring extreme cut to length tolerances



## Specifications



### Cutter Heads

Standard: Aluminum 2-position  
 Optional: Stainless Steel 2-position  
 Optional: Stainless Steel HD 2-position

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Models	CPC426-CSC2L	CPC426-CSC2	CPC426-CSC3	CPC426-CSC4	CPC639-CSC4
<b>Performance characteristics</b>					
Extrudate capacity inches {mm} diameter	1.25 {32}	1.75 {44}	2.75 {51}	3.75 {95}	4 {102}
CSC cutter motor (servo) Hp {kW}	3.25 {2.42}	3.25 {2.42}	3.25 {2.42}	N/A	
High-torque cutter motor (servo)* Hp {kW}			4.4 {3.3}		
Servo puller motor* Hp {kW}			3.25 {2.4} (Optional)		
<b>Dimensions inches {mm}</b>					
A - Height			66.6 {1691}		
B - Height to centerline, ±2 {±50.8}			42.0 {1067}		
C - Width			26.6 {676}		29 {736.6}
D - Length	74.0 {1880}	74.0 {1880}	80.0 {2032}	80.0 {2032}	100 {2540}
Belt width ±3/8 {±9.5}			4.0 {102}		6 {152.4}
Belt traction length			26.0 {660}		39 {990.6}
Feed opening			4.5 {114.3}		6.5 {165.1}
<b>Approximate weight lb {kg}</b>					
Installed			1350 {613}		
Shipping			1450 {658}		
<b>Electrical requirements Full load amps †</b>					
460V/3 phase/60Hz (Std.)			Consult Conair		

## Cutter Options

- Cutting torque horse power upgrade to 4.4 Hp continuous duty positional servo controller
- Stainless steel cutter head in place of standard aluminum cutter head for additional inertia
- Second axis slide base provides unobstructed access to the puller belts for processes which do not require a cutting mode
- Variable blade speed in both on demand and flywheel cut mode
- Follower cutting mode featuring operator programs desired cut length and number of blades. Controller takes the encoder input and automatically ratios the cutter head to the puller speed
- Electric eye and bracket for use with end sense mode, for optimizing cut to length accuracy. This unit is designed for cutting rigid parts from 4 to 24 inches long. (**Note:** it is always required to send in samples of product for proper application and set up of an electric eye.)
- Stainless steel cutter bushings bored to size for round product
- Blade wipe system includes brackets and felt pad mounted on the top of the brushing holder and lubricant bottle with sight valve
- Bushing lubrication system includes spray system with reservoir and nozzle and connection for customer supplied pressurized air. Spray is directed on a product at entry to cutter bushing to minimize drag associated to sticky and flexible extrusions
- Multiple lengths and batches, up to three additional lengths with associated batch counts, for use with timer and encoder mode
- Host microprocessor interface connections
- Timer mode
- 230/3/60 power supply
- Custom paint
- Left-to-right operation

