

# Carlen Encoder Replacement



Replace obsolete Carlen Controls encoders and tachometers easily with direct-replacement Avtron encoders.

## Replace Your Carlen Controls Obsolete Encoders and Tachometers

- | Directly replace Carlen models
- | Fully potted electronics available
  - | Improved temperature range
  - | No-bearing options
  - | Diagnostic LED & outputs
- | Keep your site running without unplanned downtime

## CARLEN REPLACEMENT

Nidec Avtron offers direct replacements for obsolete Carlen Controls encoders and tachometer models.

Models that can be directly replaced include:

CC290T = AV485  
 CC340T = HS45/M4  
 CC350T = AV485  
 CC450AA = AV30  
 CC450AE/CC451AE = AV30  
 CC451AEMT = AV30  
 CC550 = AV685  
 CC600 = HS45/M4  
 CC700 = AV685  
 CC1200 = AV685

Avtron encoders are also available with common accessories bundled with Carlen Controls units for heavy and severe mill duty applications. These include: built-in mechanical overspeed switches, dual or backup outputs, shaft electrical isolation systems, stub shafts for MD motor frames.

Some Carlen models can be replaced by no-bearing Avtron encoders such as AV125 and AV850, further increasing durability and adding many years of product life.

## OUTLINE DRAWING

**See individual  
product data sheets  
for outline drawings**

## MORE CARLEN REPLACEMENT ADVANTAGES

- | Mechanical overspeed option available
- | MD frame motor stub shafts available
- | Dual/redundant output options
- | Replaceable electronics

## CARLEN REPLACEMENT SPECIFICATIONS

Avtron encoder models offer equal or improved specifications from Carlen models:

Examples: (Carlen => Avtron)



Operating Temperature: - 0C to 70C => -40C to +100C

Frequency Range: 0-100kHz => 0 - 165kHz

TIR Allowed: 0.0005 T.I.R => 0.002 T.I.R

Check out our website for more detailed specifications, drawings, and installation instructions. [www.avtronencoders.com](http://www.avtronencoders.com)

## SELECTION GUIDE

CARLEN CONTROL REPLACEMENT	
	
Carlen Control Model	Avtron Encoder Model
CC290T	AV485
CC340T	HS45
CC350T	AV485
CC450-AA	AV30
CC451-AE	AV30
CC450-AEMT	AV30
CC550	HS45
CC600	HS45/M4
CC700	AV685
CC1200	AV125



Nidec Industrial Solutions  
243 Tuxedo Avenue - Cleveland, Ohio 44131

encoderhelpdesk@nidec-industrial.com  
+1 216-642-1230 - [www.avtronencoders.com](http://www.avtronencoders.com)



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