Carco Contact Markers Best Practices Guide

The intent of this document is to provide an easy to read guide on how to get the best usage out of Carco contact marking systems. For any additional questions, please contact Carco's team at sales@carcousa.net or call us at 313-925-9000.

Carco Ink Pump

The Carco ES-1157 Ink Pump is designed to *meter the flow of marking fluid to the marking head.* The Carco ink pump is available in three different stroke lengths outlined below alongside the recommended Carco Nib (marking head) size. A mismatch of Ink Pump the stroke length and Nib may result in an oversaturation/undersaturation of ink on the marking head

Ink Pump Size (Stroke Length)	Recommended Nib Size (Marking Head)
ES-1157-CS (1/8")	FSG-44, FG-44
ES-1157-C (1/4")	F-44, F-88, F-2100
ES-1157-CL (3/8")	F-100, F-108, F-108.5

Nibs A- F-88, F-100, F-108, F-108.5

Carco Ink Pump Instructions

As stated, the Ink Pump is designed to *meter the flow of ink from the pump to the marking head.* Therefore, each marking application must find its "magic number" to determine how often you should actuate the pump to feed the marking head. This occurs when the ink application begins to noticeably fade. Historically, many customers have found this number to be every 10-20 part markings.

Please note that 2oz of marking fluid will provide ~1000 shots from the ink pump. Therefore, if your "magic number" is every 10 parts, your application will make 10,000 parts for every 2oz of fluid.

Firing the ink pump every time a part is marked will result in oversaturation of the Carco Nib which can cause inconsistent marks, runny marks, and drippage of ink from the marking head.

Optional Agitator

This Air Motor Agitator mounts directly into the reservoir and helps keep pigmented ink from settling over time. This helps to maintain the unit in good working order. **Carco recommends running the agitator for 2-3 minutes every 4 hours to avoid clogging of the Ink.**