

ABSTRACT**METHOD AND APPARATUS FOR PRECISE MARKING AND PLACEMENT OF AN OBJECT**

The present invention provides a precise marking apparatus for performing precise marking on an object and methods of using the same. The precise marking apparatus comprises an object input handler and an object output handler for handling the object; a transport system for transporting the object handlers during a marking process; a vision inspection unit for capturing and/or processing the image of the object; a marking system for marking the object; and a control unit for receiving information from and sending instructions to other components of the precise marking apparatus. The present invention also provides a precise placement apparatus for precise marking and/or precise packaging an object and methods of using the same. The present invention further provides a precise marking and placement apparatus for performing precise marking on an object and precise placement of the object for final packaging and methods of using the same.

Figure 7.