

REUSE: Sorting of “identical” bottles only by 2-mm-variation of the finish width

The Bordeaux bottle 75 cL is very popular all-over Europe. A vast variety of taints, finish types and shapes are in the market. Most of the bottles have nowadays a screw-cap-finish with MCA thread. Here, the finish diameter of the Bordeaux bottle is of 28 mm in the European Union, but 30 mm in Switzerland.

In a particular project, miho was asked:
Can these two “identical” bottle types be discriminated?

A uniform finish diameter is crucial for the reuse of these bottle types for filling and closing the bottles.

1. Bordeaux bottle, 75 cL, green, screw cap, **EU market, 28mm finish diameter**
2. Bordeaux bottle, 75 cL, green, screw cap, **Swiss market, 30 mm finish diameter**

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Authors:

- Peter Schirmer
- Markus Grumann

Answer:

Yes!

The bottle discrimination by the finish diameter runs securely with the miho Multicon 4.

Key prerequisite is to remove the longcap and cleaning the bottle in advance.

A measurement with partly attached caps or other closures will not be accurate.

However, the sorting of bottles with caps and other closures runs securely







There is no impact by the type of the color: Blue, brown, green

Conditions:

All applicable conditions given in the miho Multicon 4 standard performance list are valid.



Inspection performance miho Multicon 4

	<i>Bottle type</i>	<i>Picture bottle / full body</i>	<i>Picture inspection device</i>	<i>Sorting accuracy</i>
1	<p>Bordeaux bottle, 75 cL, green, screw cap, EU market,</p> <p>28 mm</p> <p>finish diameter</p> 			<p>Reference bottle</p> <p>Bottle will pass to</p> <p>washing machine</p>
2	<p>Bordeaux bottle, 75 cL, green, screw cap, Swiss market,</p> <p>30 mm</p> <p>finish diameter</p> 			<p>Secure rejection to channel</p> <p>foreign bottles</p>

Inspection performance miho Multicon 4

<p>3</p>	<p>Bordeax bottle, 75 cL, green, screw cap, EU market, 28 mm finish diameter</p> 			<p>Secure rejection to channel</p> <p><i>uncapper</i></p>
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