



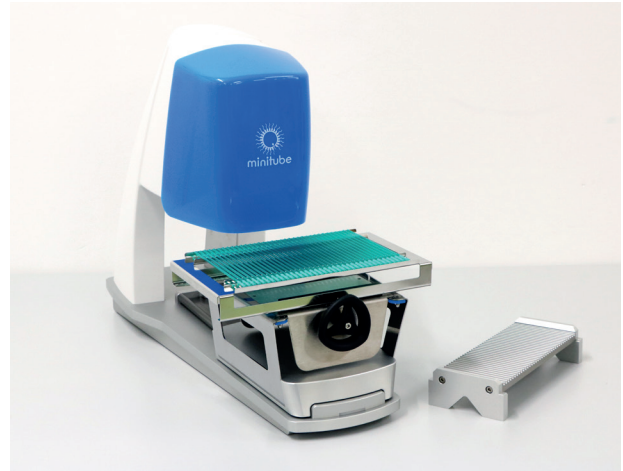
TECHNICAL DATA SHEET

MULTICODER

Printing speed test with 10 and 13 mm goblets, 0.25 and 0.5 ml straws.

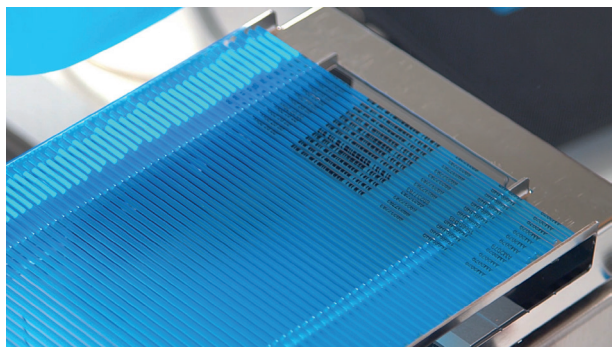
Initial question

At what rate can the different goblets and straws be printed with the MultiCoder?



Speed test setup

- **Settings:** Print intensity 600 dpi (default setting).
- **Procedure:** Before starting the timer, everything was prepared and ready for printing. Directly after starting the timer, the first carrier was loaded with goblets/straws. The printing capacity was measured for 5 minutes and extrapolated to 60 minutes. All information to be printed was read from one Excel file.
- **Test case:**
 - **“Same text”:** The printing process was initialized in the software right before the stop watch was started. A high number of copies was entered to ensure continuous printing without having to restart. The text printed on the object did not change.
 - **“Different text”:** After each print the text from the database was changed. In the case of the goblets, a new text was printed after 15 goblets (10 mm) or after each goblet (13 mm). In the case of the straws, three 0.5 ml straws and four 0.25 ml straws were printed with the same information.
- **Number of carriers:**
 - **One carrier:** The carrier was loaded with the first batch of goblets, the batch was printed, and the dried goblets were removed for storage before the next batch was loaded onto the carrier.
 - **Two carriers:** After printing the first carrier and during the drying period of the goblets on this carrier, the second carrier was loaded.





Goblets results

10 mm goblets, carrier capacity 15x

		5 min [number of goblets]	60 min [number of goblets]
One carrier	Same text	95	1140
	Different text after 15 goblets	84	1008
Two carriers	Same text	94	1128
	Different text after 15 goblets	92	1104



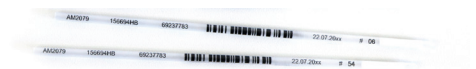
13 mm goblets, carrier capacity 12x

		5 min [number of goblets]	60 min [number of goblets]
One carrier	Same text	84	1008
	Different text after each goblet	48	576
Two carriers	Same text	108	1296
	Different text after each goblet	52	624

Straws results

0.25 ml straws, carrier capacity 60 straws, print 4 straws/cycle

		5 min [number of straws]	60 min [number of straws]
One carrier	Same text	144	1728
	Different text after each print (4 straws)	82	984



0.5 ml straws, carrier capacity 36 straws, print 3 straws/cycle

		5 min [number of straws]	60 min [number of straws]
One carrier	Same text	140	1680
	Different text after each print (3 straws)	90	1080

Notes

The **drying time** depends on the selected print intensity. It is possible to accelerate the drying time by using less ink for the printing (e.g. 400 dpi instead of 600 dpi).

The **printing speed** depends on how often the text is changed.

Also, using two carriers can be useful for continuously printing a large number of straws or goblets.



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