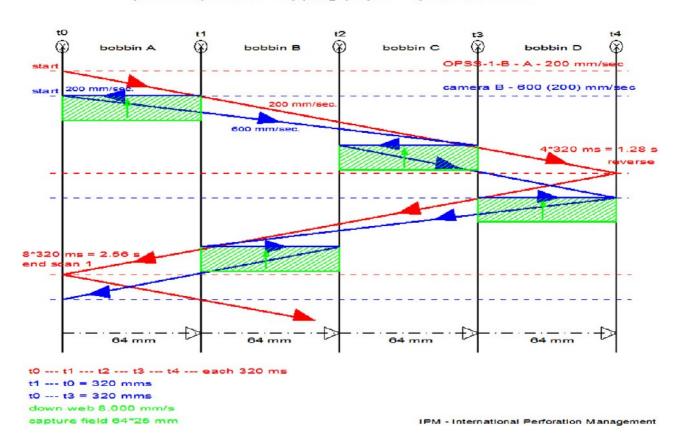
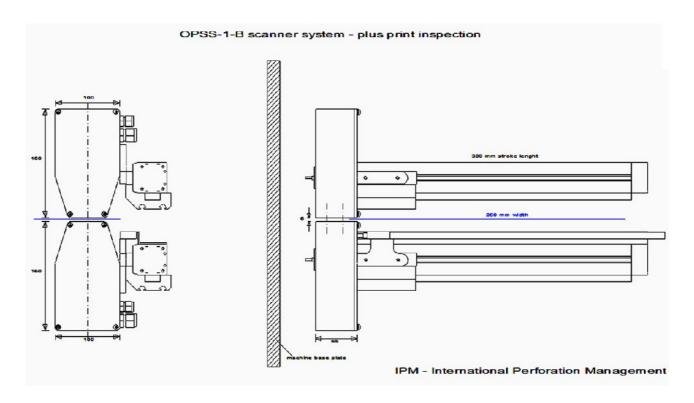
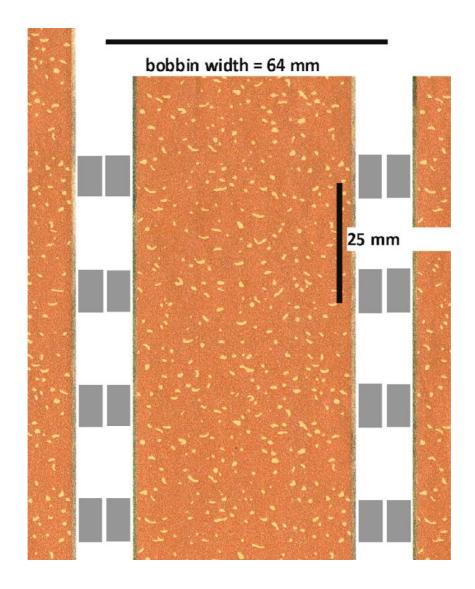


print inspection - tipping paper - quad bobbins



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Print inspection - tipping paper - quad bobbins

Date: 9th December 2010

Patent applied

- tipping paper web speed max. 480 m/min = 8.000 mm/sec.
- printed register field across web: X max. 64 mm
- printed register field down web : Y = 25 mm
- OPSS-1-B scanner speed e.g. A = 200 mm/sec
- camera scanner speed e.g. B = 600 mm/sec.
- position accuracy of OPSS-1-B scanner: +/- 50 µm with ASM sensor
- OPSS-1-B scanning stroke approx. 300 mm
- local resolution at printed field = 100 μm
- suggested pixel sensor (double pixel calculation)
- X = 2*(64 mm/0.1mm) = 1280 pixel
- Y = 2*(25 mm/0.1mm) = 640 pixel

maximal capture rate : cap = speed/Y-field = 8.000mm/sec/25mm = 325 capture/sec.

inspect with step 1 bobbin A : $(\Delta t0 --- t1)$ *cap = 0.32s*325capt/sec. = 104 captures while web running inspect with step 2 bobbin C : $(\Delta t3 --- t2)$ *cap = 0.32s*325capt/sec. = 104 captures while web running inspect with step 3 bobbin D : $(\Delta t3 --- t4)$ *cap = 0.32s*325capt/sec. = 104 captures while web running inspect with step 4 bobbin B : $(\Delta t1 --- t2)$ *cap = 0.32s*325capt/sec. = 104 captures while web running $(\Delta t0 --- t1) = (\Delta t1 --- t2) = (\Delta t2 --- t3) = (\Delta t3 --- t4)$

full OPSS-1-B scan: $2*(\sum t1, t2, t3, t4) = 1280*2 = 2560ms = 2.56 sec.$

by (2.56 sec.*8 m/sec) 20.5m printed tipping paper

 \sum captures: (step1+step2+step3+step4) = 4*104 captures = 404 captures

Continuous inspect length by bobbin A, B, C, D: speed*inspecting = 8.000mm/sec*0.32sec = 2.6m

Continuous inspected printed length: 2.6m with 104 captures, each with 25 mm single printed fields

更多信息请联系

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