

# The Machins – Group 10 and 11 Postal Rates

## New postal rates from 1 February

Inland letters up to 60g



First Class  
**15½p**



Second Class  
**12½p**

For full details  
pick up a leaflet



## NEW DEFINITIVE STAMPS

on sale here from  
27 January 1982



# The Machins – Group 10 and 11 Postal Rates

## Postal rates from 5 April

Inland letters up to 60g



**First Class**  
**16p**



**Second Class**  
**12½p**  
**Unchanged**

**For full details  
pick up a leaflet**

Royal Mail  
**Postal Rates**

Royal Mail  
**Postal Rates**  
from 5 April 1983  
HM Forces Overseas

Royal Mail  
**Postal Rates**  
from 5 April 1983  
Inland



## **NEW DEFINITIVE STAMPS**

on sale here from 30 March 1983



# Paper Types



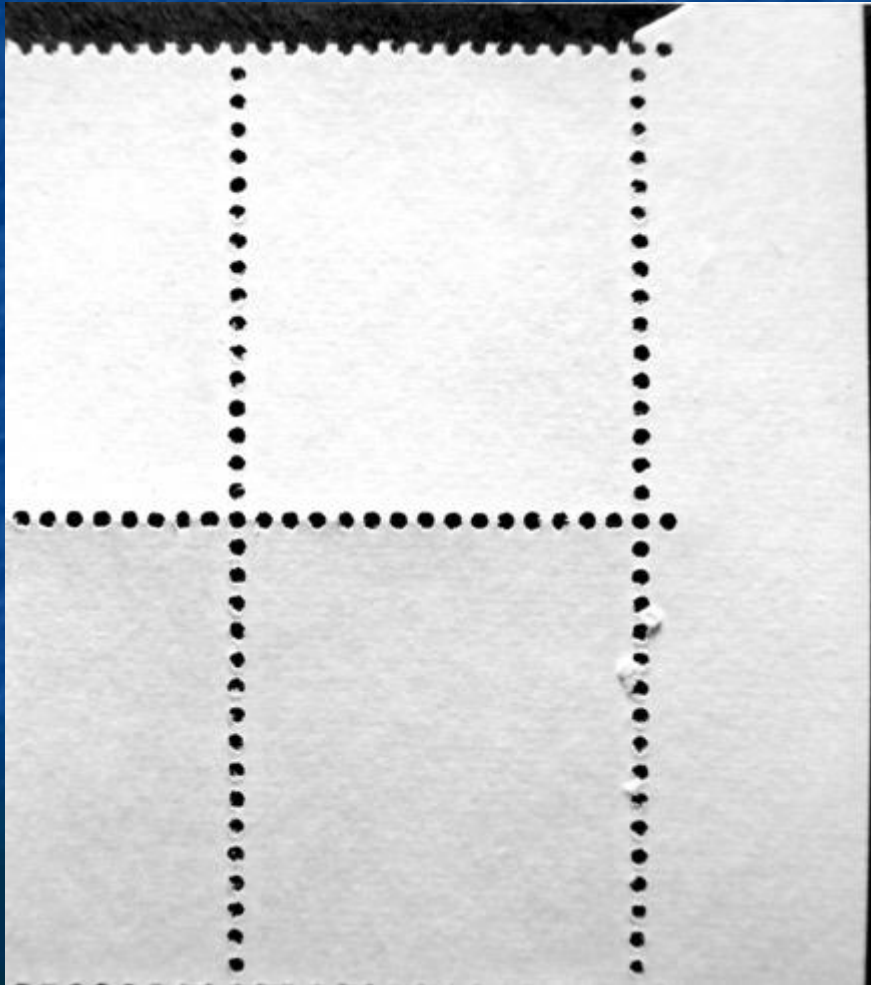
FCP

PCP

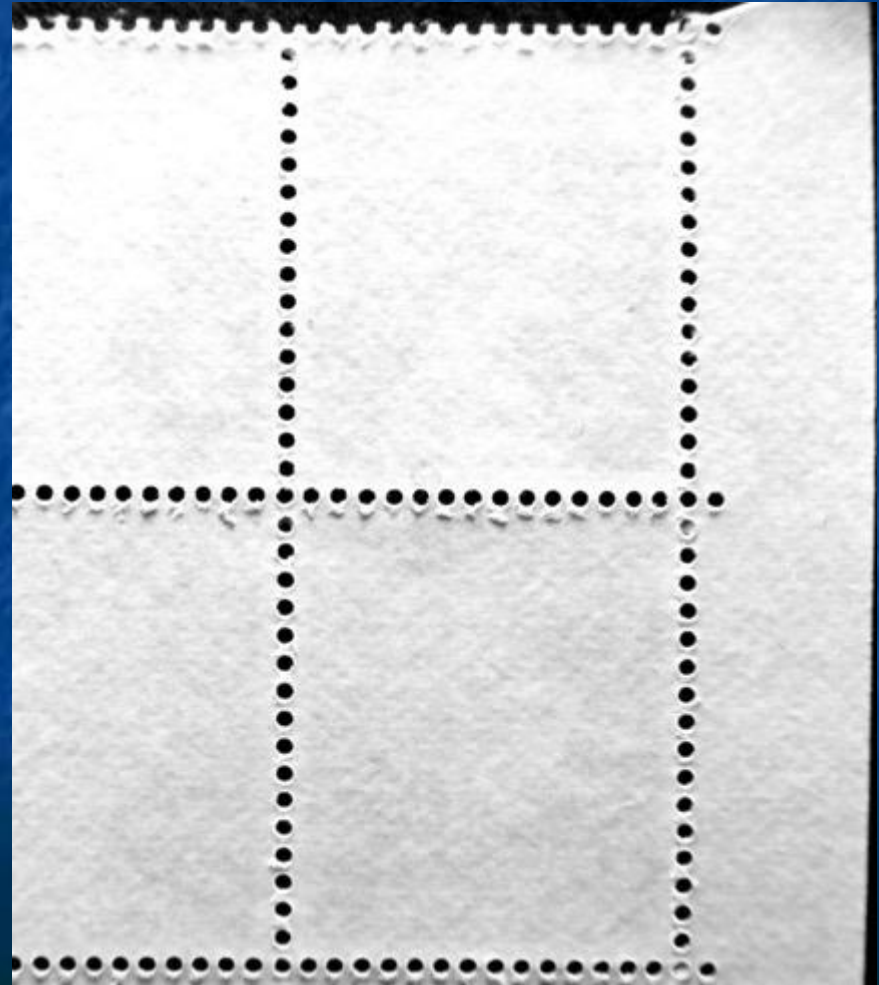
ACP

# Perforators

Kampf



Ab Produktion Svenska  
(A.P.S.)



# Perforation Varieties – E.E.H.

## Extra Extension Holes (E.E.H.)

R 21

R 20

R 19



# Perforation Varieties – '17 Pin'



- 1984 pin breaks on Jumelle A.P.S.
- Repair results in 17 perforations instead of 16
- Only exists on 'Dot' cylinder blocks and like the E.E.H. variety migrates and may be found in a number of positions



# The 26p Stamp

## Perforation varieties

'17 Pin' R 20



'17 Pin' R 17



Bent Pin



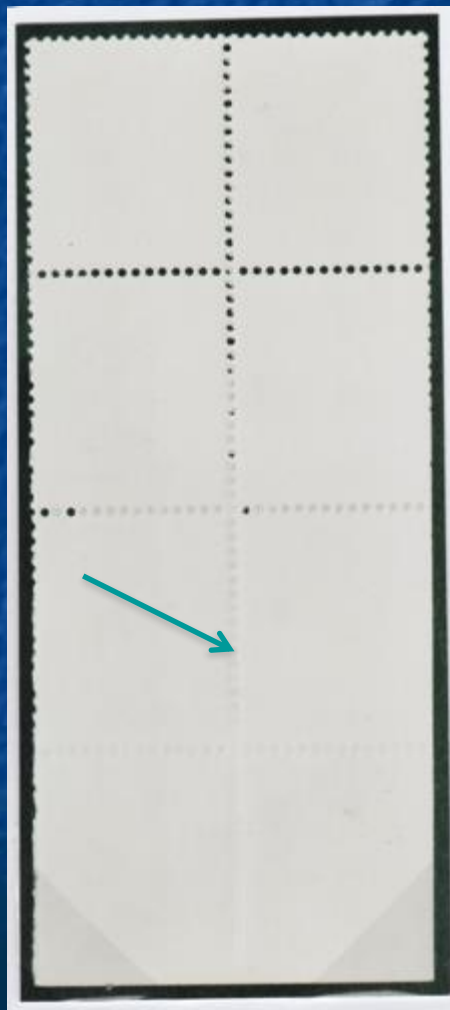


# The 23p Stamp

## Perforation varieties

Progressive imperforate block

'17 Pin' R 16







# The 17p Stamp

## Perforation Varieties – '17 Pin'

R 18

R 19

R 20





# The 5p Stamp

Perf. Type PP



Perf. Type PP

Perf. Type IP



Perf. Type PP

Perf. Type PP



Perf. Type PP

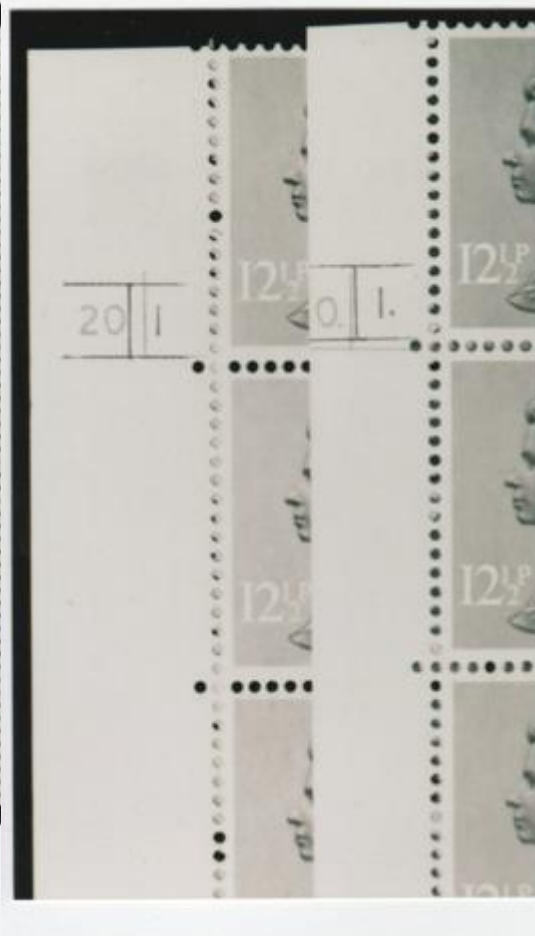


# The 12½p Stamp – Cyl. 1/p20

Cyl. 1/1. p20



U/V picture



Cyl. 1 p20  
+27mm





# The 12½p Stamp – Cyl. 1/p20





# The 12½p Stamp – Cyl. 1/p31

Cyl. 1/1. p31

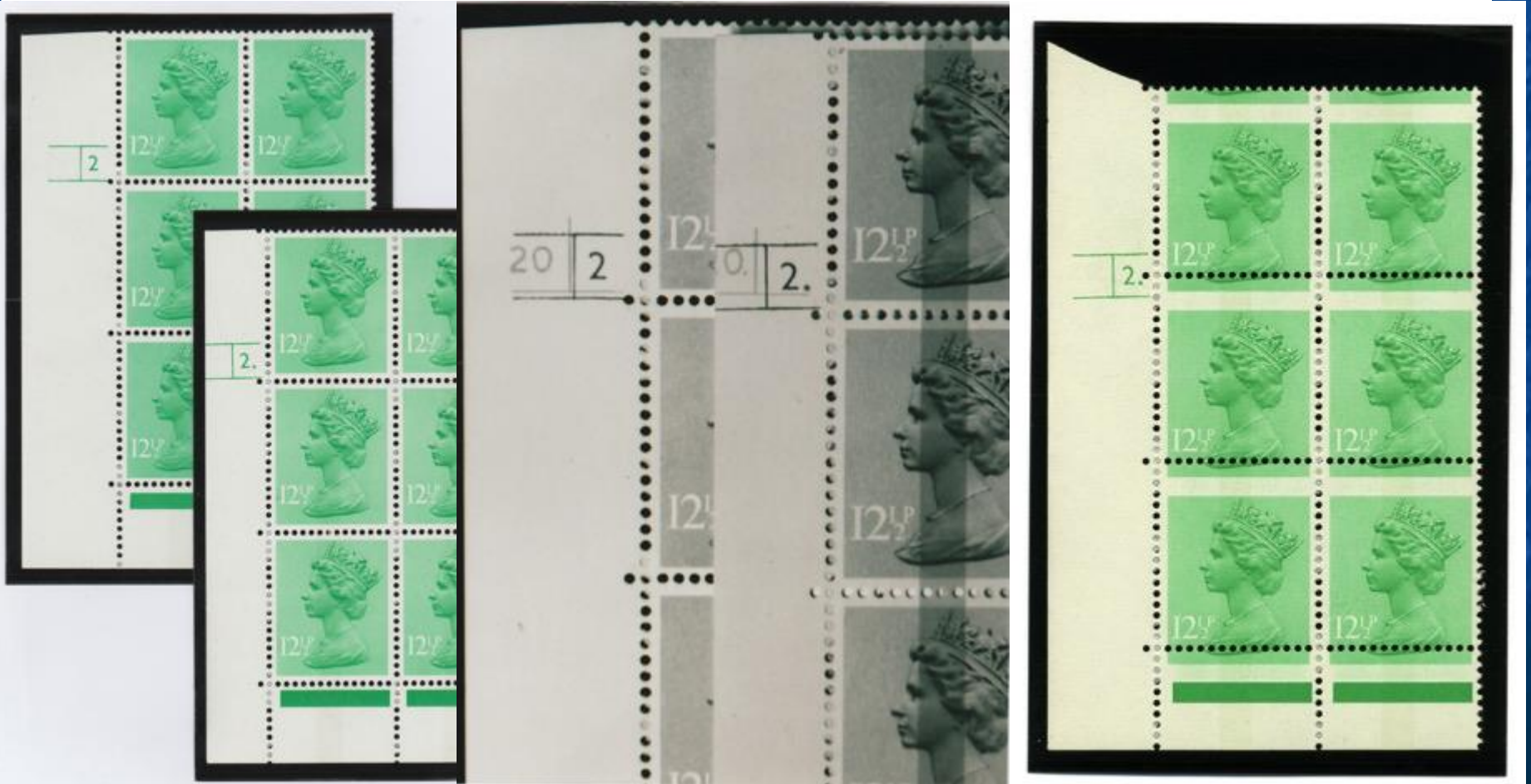




# The 12½p Stamp – Cyl. 2/p20

Cyl. 2/2. p20

Cyl. 2. p20 – 3.5 mm upwards perf. shift





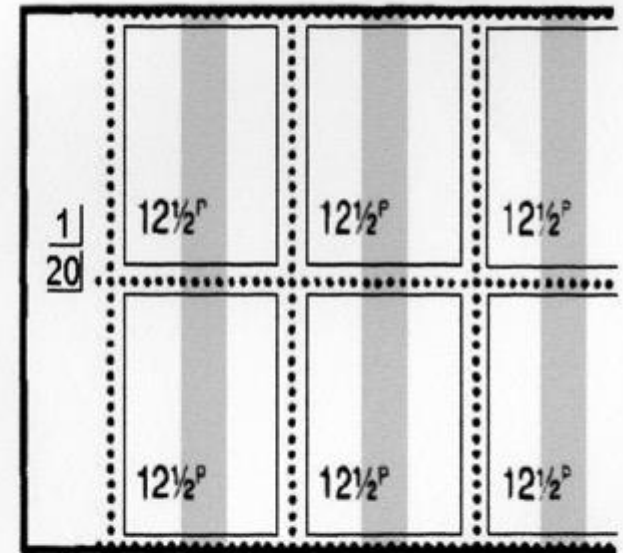
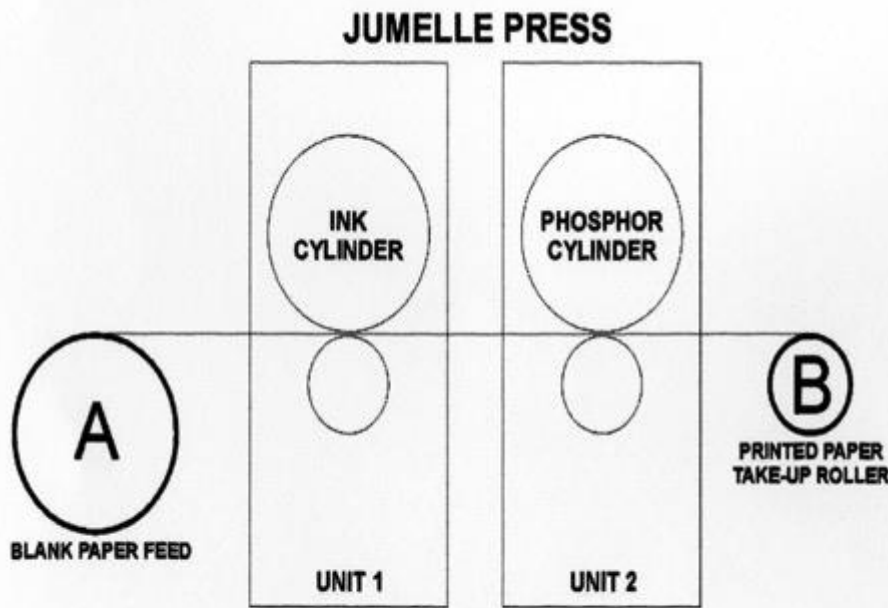
# The 12½p Stamp – P.U.I. Cyl. 2/p20



- Jumelle press has 7 printing units
- 19½p Darwin – 6 colours – one Jumelle unit free



# The 12½p Stamp – P.U.I. Cyl. 2/p20



Phosphor Over Ink

Result

**Fig.1 Normal - Phosphor Over Colour**  
Simplified diagram of Jumelle Press showing two printing units being used to print single colour definitives with a single Phosphor band



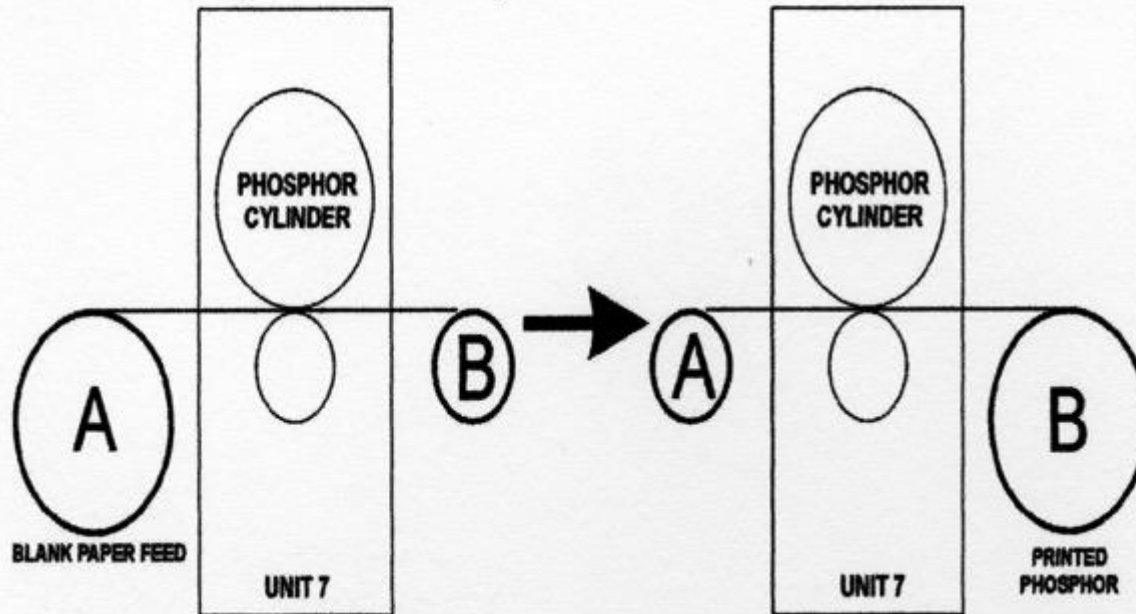


# The 12½p Stamp – P.U.I. Cyl. 2/p20

**Step 1** - Paper is loaded onto reel 'A', passes through unit 7, loaded with a phosphor cylinder and the phosphor bands are printed. The phosphor cylinder number as usual is printed on the left hand selvage of the reel of paper, which after printing is collected on roller 'B'.

**Fig.2** Phosphor Under Ink - Upright Printing

**Step 1 - Printing of Phosphor**



Printing of Phosphor Bands with  
Phosphor Cylinder No. on LHS

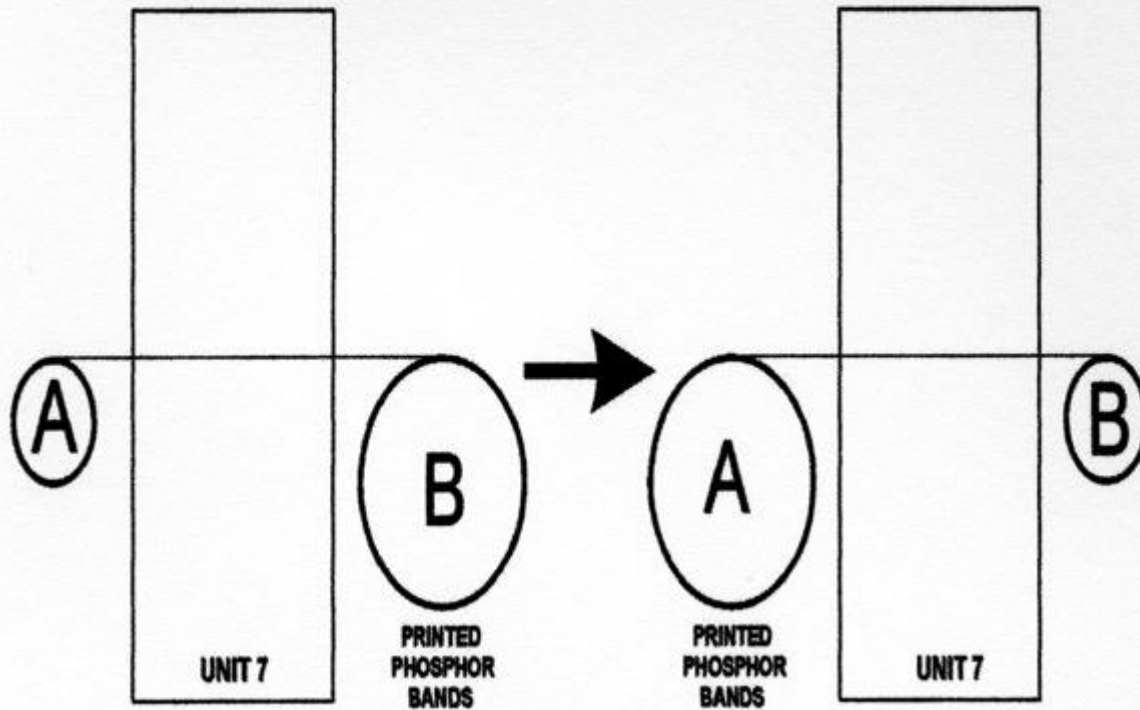
**Result**



# The 12½p Stamp – P.U.I. Cyl. 2/p20

**Step 2** - The paper is re-wound back through unit 7 so that the paper with printed phosphor bands is now loaded from roller 'B' onto roller 'A'.

**Step 2 - Paper Re-reeled Back**

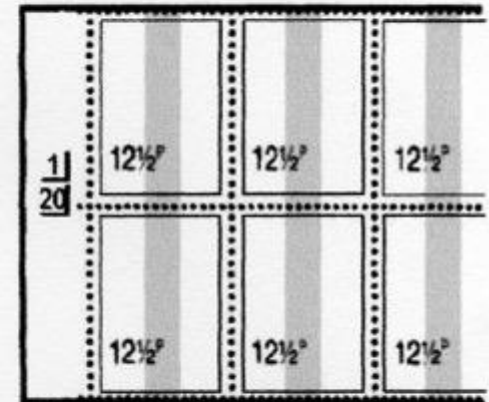
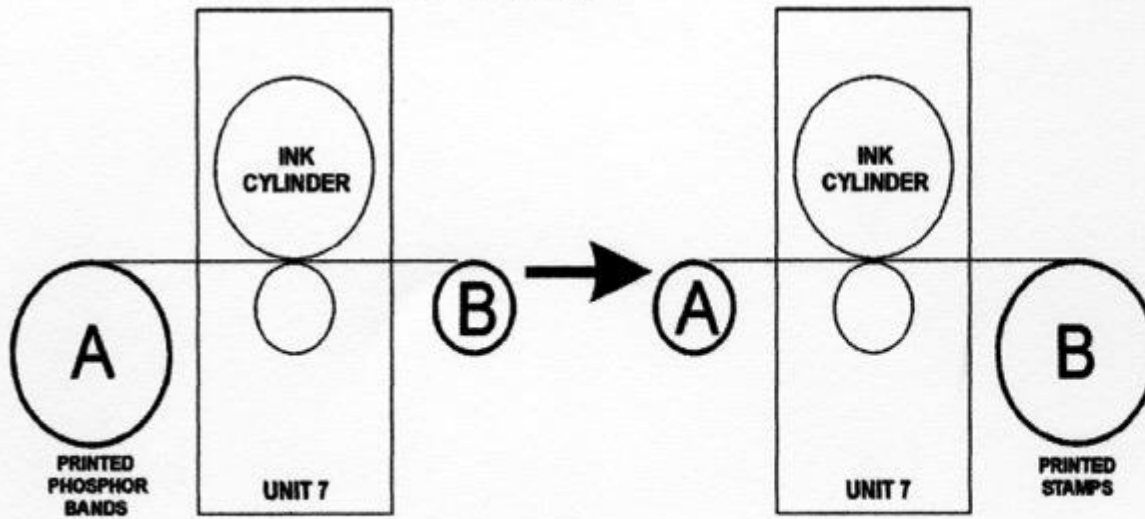




# The 12½p Stamp – P.U.I. Cyl. 2/p20

**Step 3** - The ink cylinder in unit 7 replaces the phosphor cylinder. The paper (with phosphor bands) is then passed through unit 7 a second time to print the stamp images producing stamps with Phosphor Under Ink (P.U.I.). The re-reeling process causes paper stretch due to the two passes through the press and as a result the ink cylinder although printed on the left hand selvedge along with the phosphor cylinder may be either synchronised (by chance) or is totally unsynchronised with the phosphor cylinder which may appear just about anywhere in the left hand selvedge.

**Step 3 - Printing of Stamp Images**

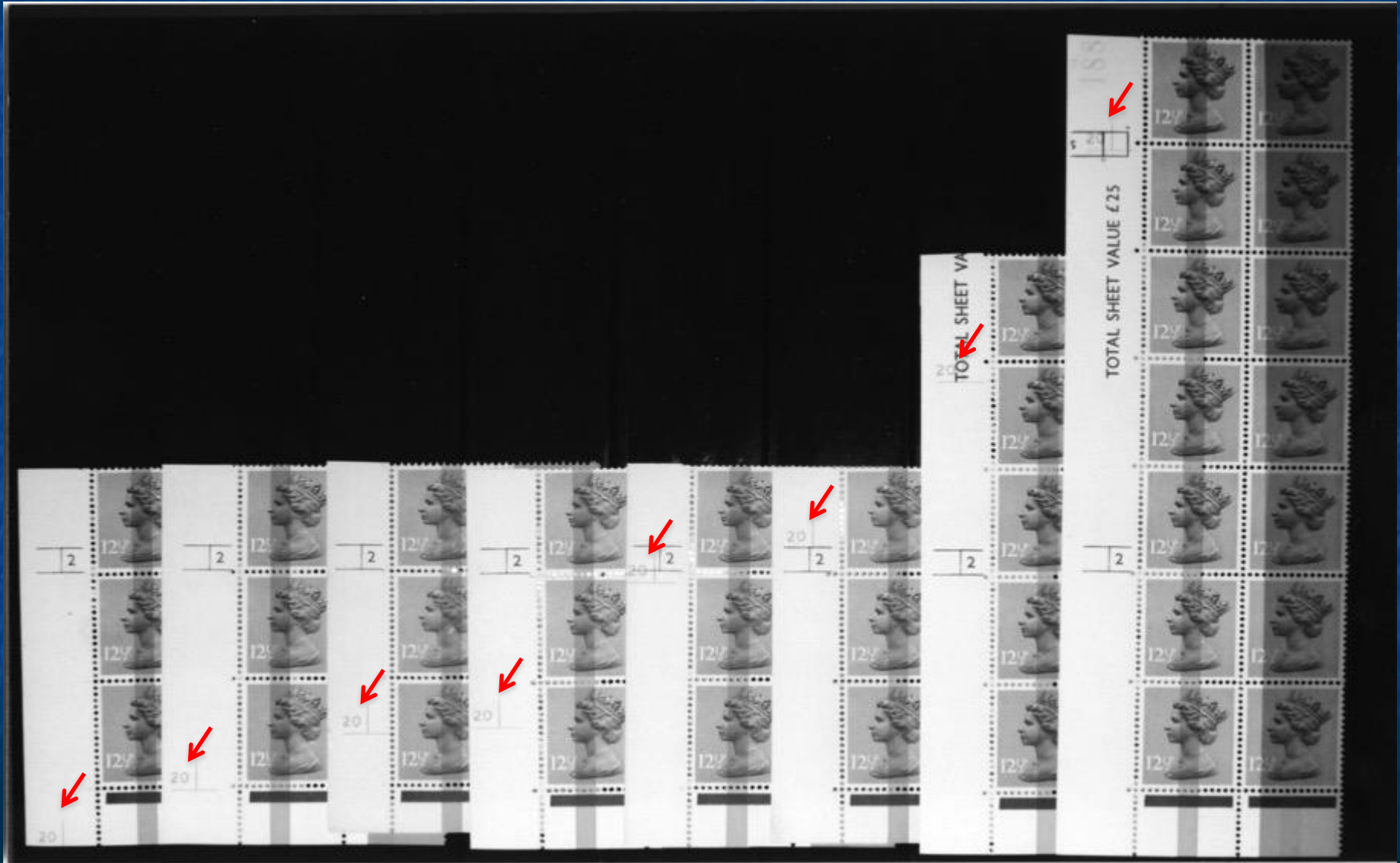


Printing of Stamp Images onto Phosphor gives PUI with Ink and Phosphor Cylinder Nos. on LHS

**Result**



# The 12½p Stamp – P.U.I. Cyl. 2/p20





# The 12½p Stamp – P.U.I. Cyl. 2/p20

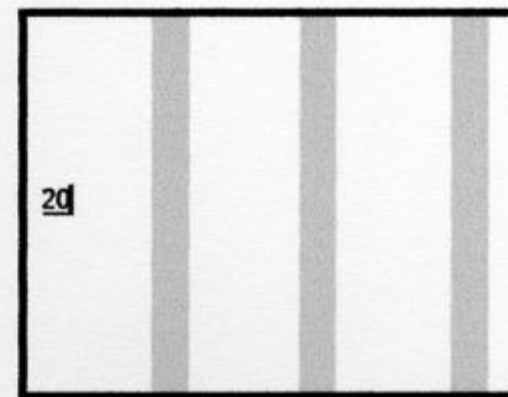
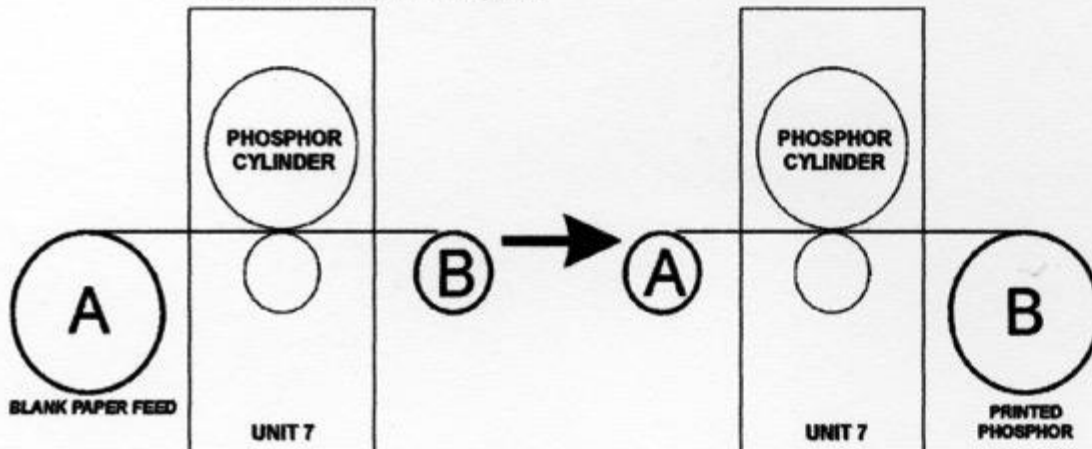
## Option 2 – Phosphor cylinder number inverted in RH selvage (Figure 3)

**Step 1** - Paper is loaded onto reel 'A', passes through unit 7, where again a phosphor cylinder is loaded. The phosphor bands are printed with the phosphor cylinder 20 again printed on the left hand selvage. This paper is then collected on output roller 'B'.

This roller 'B' is then transferred to the input side of unit 7 and as a result was rotated through 180° so that the new loose end is now facing the press in readiness for its second passage though the press for the colour images to be applied.

**Fig.3 Phosphor Under Ink - Inverted Printing**

### **Step 1 - Printing of Phosphor**



Printing of Phosphor Bands with Phosphor Cylinder No. on LHS

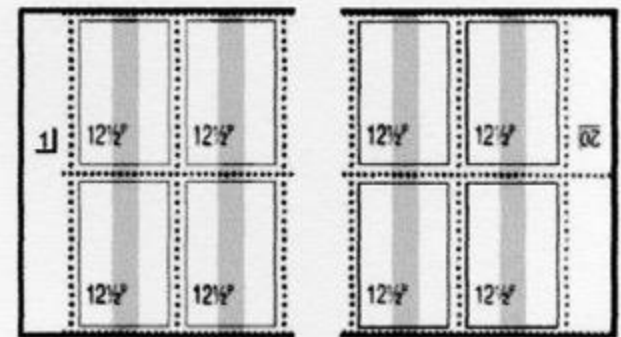
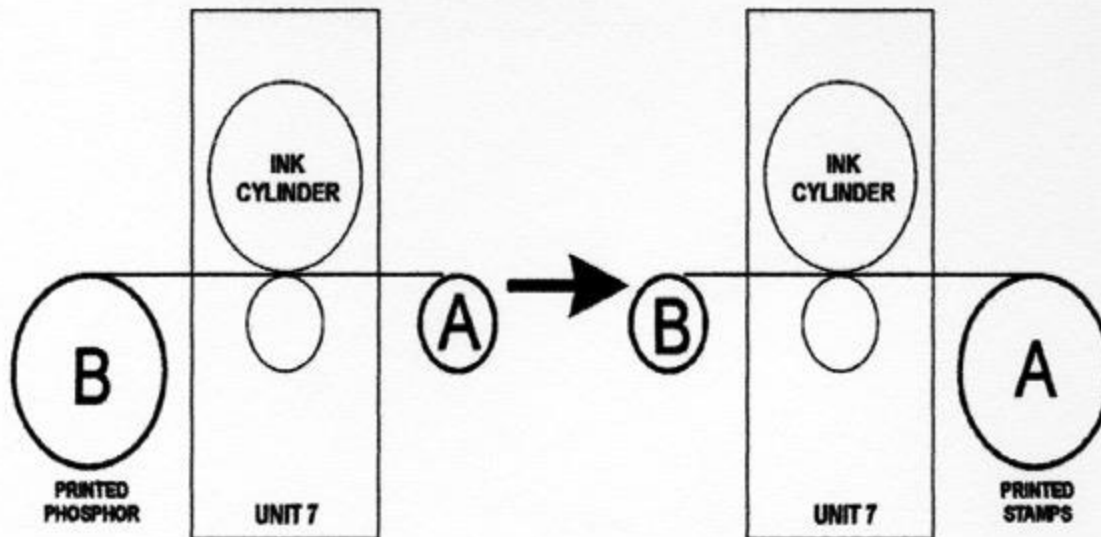
### **Result**



# The 12½p Stamp – P.U.I. Cyl. 2/p20

**Step 2** - A colour ink cylinder replaces the phosphor cylinder in unit 7. The paper on reel 'B' (with phosphor bands) is then passed through the press again resulting in the stamp images being printed over the phosphor thus producing P.U.I. The stamp images have also been printed in the opposite orientation to the direction that the phosphor was printed due to the paper being rotated by 180°. This results in the colour ink cylinder number '2' appearing in the left hand selvage whereas the phosphor cylinder number '20' appears on the right hand selvage and inverted with respect to the ink cylinder number.

Step 2 - Printing of Stamp Images



Printing of Stamp Images onto Phosphor gives PUI with Ink and Phosphor Cylinder Nos. on Opposite Sides of Stamp Sheet

**Result**

# The 12½p Stamp – P.U.I. Cyl. 2/p20



# The 12½p Stamp – P.U.I. Cyl. 2/p20







# The 12½p Stamp – Cyl. 2/p31

Cyl. 2/2. p31

U/V picture

Cylinder 2/p31





# The 12½p Stamp – Cyl. 2/p41

Cyl. 2/2. p41

U/V picture





# The 12½p Stamp – Cyl11/p18

11

12½p

12½p

12½p

12½p

12½p

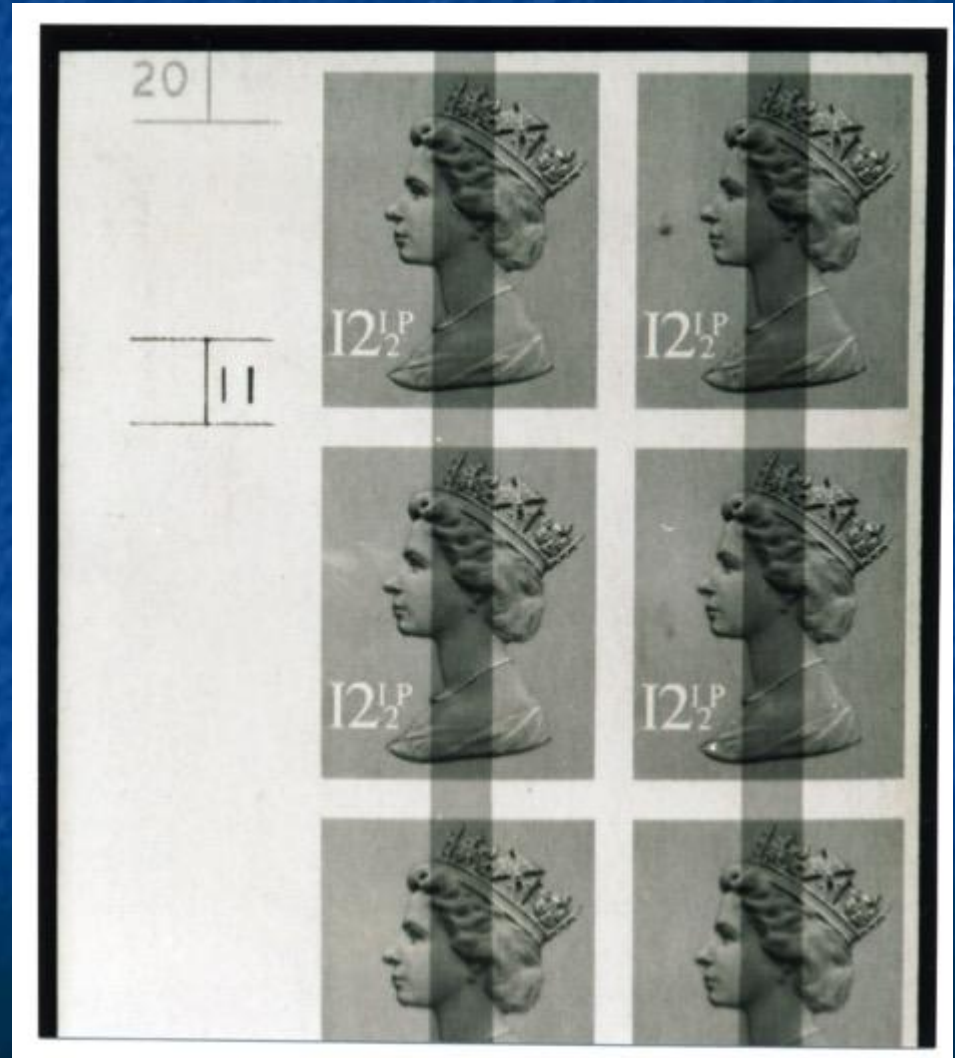
12½p

The photograph is of the right hand side of this piece and clearly shows the 'comet flaw' on the right hand edge of the selvage, just above the box tips.





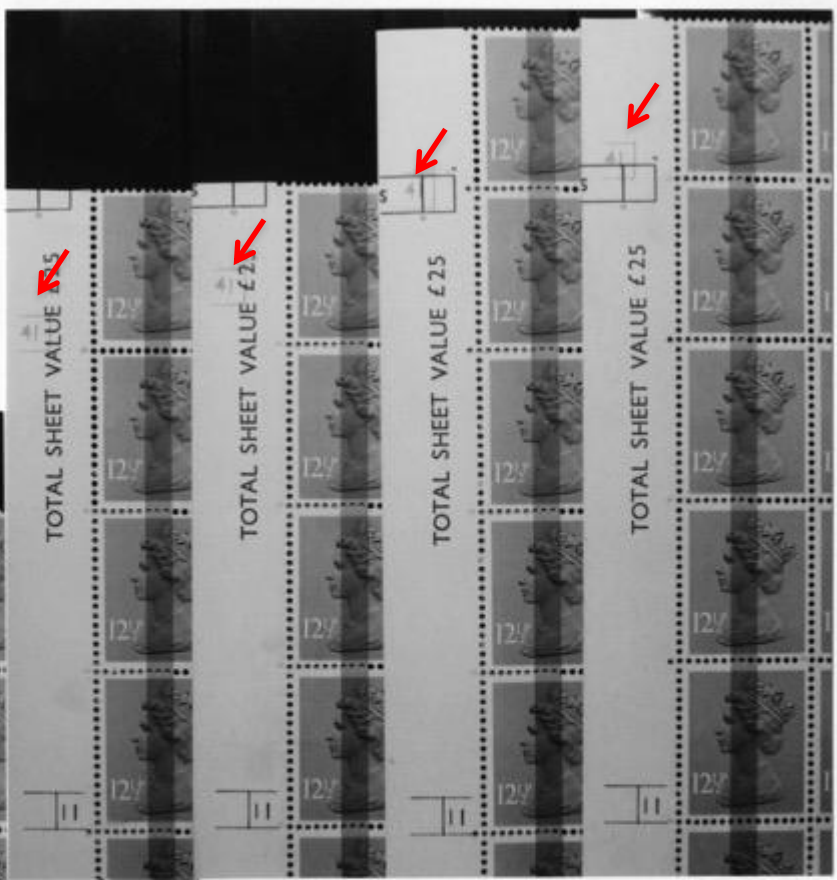
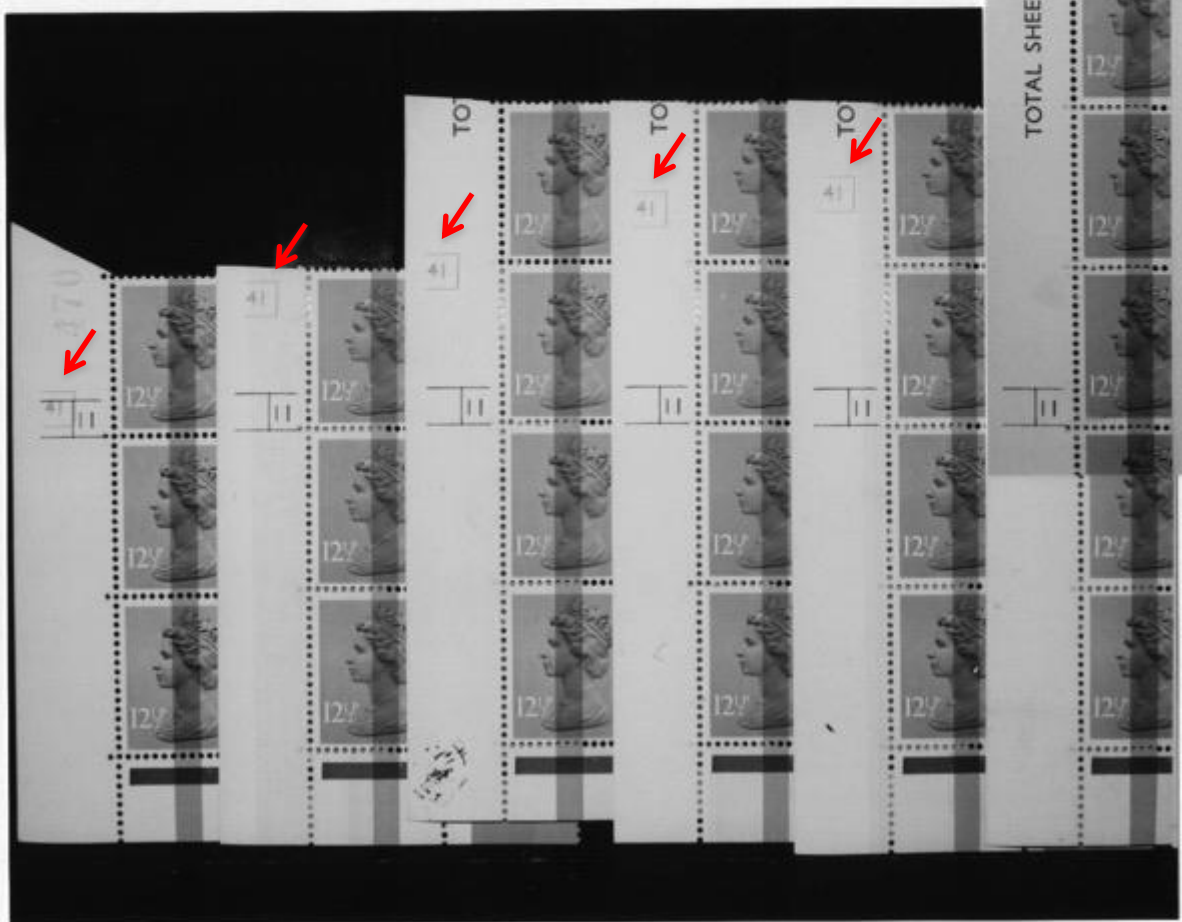
# The 12½p Stamp – Cyl11/p20





The photograph shows the positions of the phosphor cylinder under UV light of the blocks displayed on the previous sheets.

# The 12½p Stamp Cyl11/p41



The End – Thank you

