

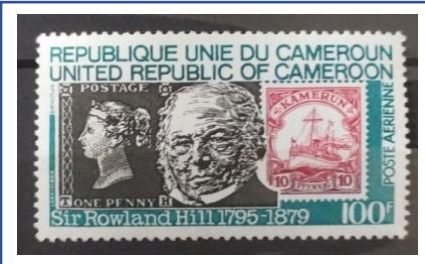


# FROM INK TO INNOVATION: THE IMPACT OF TECHNOLOGY ON STAMPS



## THE FIRST STAMP IN HISTORY: THE PENNY BLACK

IT ALL BEGAN WITH THE SMALL PENNY BLACK ON MAY 6, 1840, MARKING THE BIRTH OF THE MODERN POSTAL SYSTEM.



**Sir Rowland Hill** revolutionized the postal system with prepaid postage, leading to the **Penny Black (1840)**, the world's first adhesive stamp. He is known as the "**Father of the Postage Stamp**" and the "**Architect of Modern Postal Services.**"



**GREAT BRITAIN POSTALLY USED IMPERF PENNY BLACK ON COVER WITH MALTESE CROSS – 1840**

**PRINTING METHOD: LINE ENGRAVED (GRAVURE, RECESS)**

Maltese cross was applied to letters to prevent the reuse of stamps, marking them used. It's usage on penny black was important to identify fraudulent use.

## NOTABLE PRINTING TECHNIQUES THAT ELEVATED STAMP DESIGN



**LITHOGRAPH PRINTING – BRITISH INDIA QUEEN ½ ANNA 1854 USED**



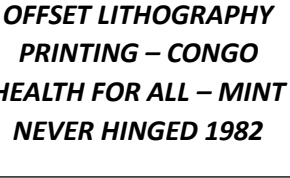
**RECESS PRINTING – CEYLON QUEEN VICTORIA USED IMPERF 1863**



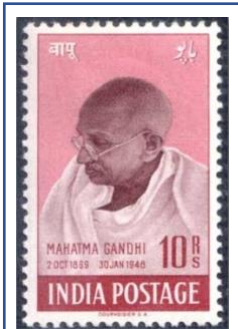
**PHOTOGRAVURE PRINTING – INDIA MAHATMA GANDHI MNH 1948 LOCATION OF PRODUCTION- SWITZERLAND**



**TYPOGRAPHY PRINTING – FRENCH INDOCHINA POSTAGE DUE MINT NEVER HINGED 1931**



**OFFSET LITHOGRAPHY PRINTING – CONGO HEALTH FOR ALL – MINT NEVER HINGED 1982**

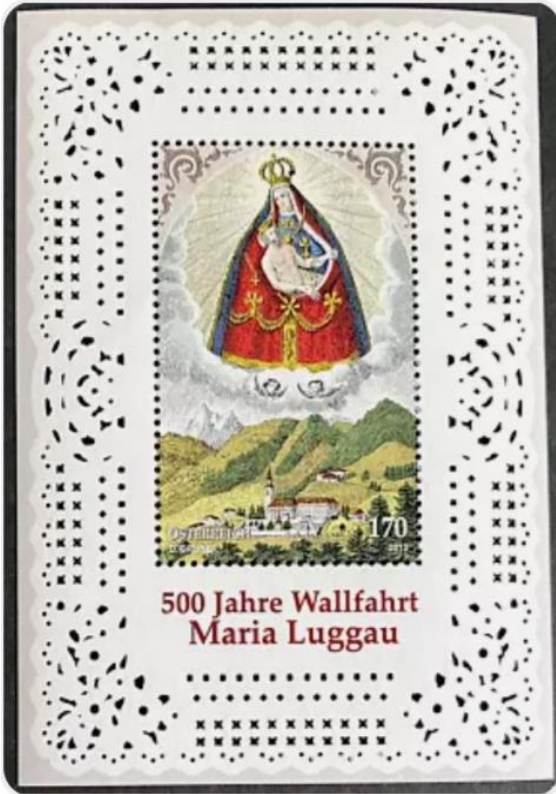


**DIGITAL PRINTING PERSONALIZED STAMP – MY STAMP INDIA**

"My Stamp" is a personalized postage stamp issued by postal administrations, allowing individuals to feature custom images alongside official designs.

## WHEN STAMPS MET TECHNOLOGY: INNOVATIONS THAT CHANGED THE GAME

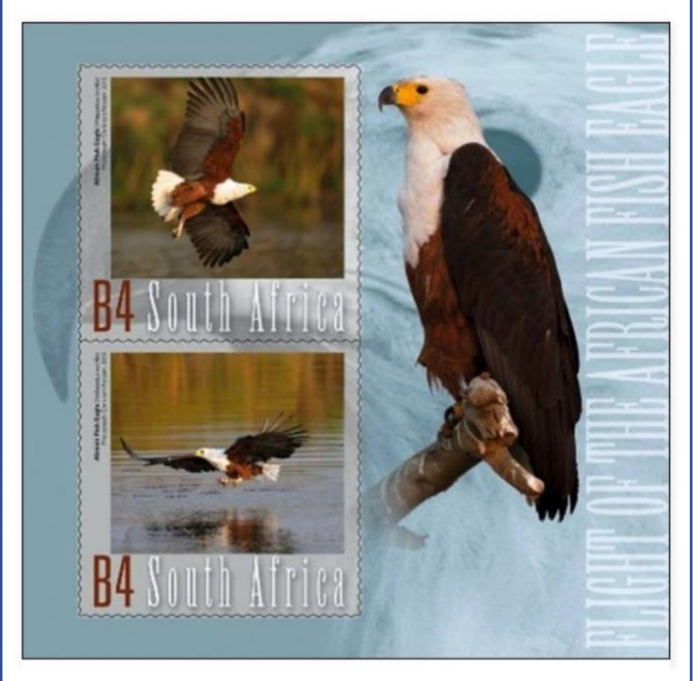
In the 2000s and beyond, stamp production saw groundbreaking innovations using special materials and advanced printing techniques. These modern stamps incorporate unique features like interactive elements, digital integration, and unconventional materials, redefining philately in the technological era.



**LASER CUT SOUVENIR SHEET – AUSTRIA 2013**



**PERFUMED SILK ROSE STAMP – THAILAND 2005**



**LENTICULAR SELF-ADHESIVE SOUVENIR SHEET ON EAGLE– SOUTH AFRICA**



**STEEL STAMP - BHUTAN**



## SELF-ADHESIVE STAMP ON FOIL - FINLAND 2017 ON TECHNOLOGY



**FIRST CRYPTO STAMP – AUSTRIA UNICORN 2019**

From the **Penny Black** to **crypto stamps**, technology has transformed philately through innovative materials, digital integration, and blockchain security.