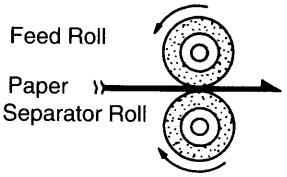
(2) Paper Separating Mechanism

- The paper separating mechanism ensures that only the top sheet of paper is fed in by separating the second sheet of paper from the top one.
- This is accomplished by the difference in friction coefficient between the first and second sheets of paper.

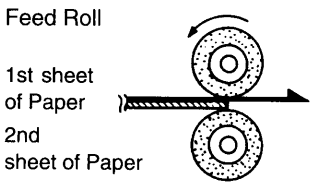
<Normal Feeding>



Driven or stationary

- When only one sheet of paper is fed, the friction coefficient on the top side of the paper is equal to that on the underside.
- Driven by the Feed Roll, the paper drives the Separator Roll. This causes the paper to be sent to the Vertical Transport Section.
- The friction coefficient varies for different ambient conditions and types of paper being used, which often causes the Separator Roll to be stationary.

<Double Feeding>



Separator Roll

Stopped

- Since the coefficient of friction between the top side of the first sheet of paper and the Feed Roll is greater than that between the first and second sheets of paper, the first sheet of paper is fed into the copier by the Feed Roll.
  Since the friction coefficient between the second sheet of paper and the Separator Roll is greater than that between the first and second sheet of paper, the Separator Roll is not driven and holds the second sheet of paper.