

# 9ty Liner

## Industries for this invention

- Stationery manufacturers, sellers
- Medical devices

## Innovation Status

TRL 5  
Early Prototype

## Intellectual Property

Registered Design

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## Invention

9ty (pronounced ninety) LINER is a sustainable and ergonomic refillable writing instrument that comprises of four components for easy recyclability. This unique design promotes reduction on material wastage that existing pens lack due to their manufacturing processes.

## Problem Solved

This pen is ideal for individuals who suffer from severe to minor hand cramps, carpal tunnel, writer's cramp (hand dystonia) and minor arthritis.

It helps to prevent and reduce the risk of developing musculoskeletal diseases, and for those who do have hand related syndromes, it assists in alleviating downward pressure and relaxes the hand joints while writing.

## Application

The pen offers users optimum comfort and caters to users who suffer from multiple hand related syndromes.

Two types of plastics are used to produce this pen, i.e. Polyhydroxyalkanoates bioplastics, a biodegradable plastic in most environments when exposed to heat, and polyester fibre plastics which are recyclable.

## Advantages

- High quality ergonomic writing instrument
- 90% sustainable
- Utilises renewable resources
- Main components are biodegradable
- Functions on water-based inks

