



Scrap / KM tube & WB cleaning Efficiency

Objective: To develop more efficient solution for wide range of Konica Minolta (KM) tubes and Waste Box (WB) cleaning.

At THINK INKS we get Toners Cartridges that we recycle and send for reuse. The toner cartridges that we get usually have a small amount of toner powder still inside them. We are unable to granulate (to recycle) as the powder will contaminate the raw materials and we are unable to recycle them. We are currently cleaning these by hand however we would like to make some sort of machinery that will clean the tubes both cost and time efficiently.

It is your job to design this equipment.

What we know?

We are currently cleaning:

8 WB per hour

15 KM bottles per hour

25 scrap tubes per hour

There are many products of different shapes & sizes. It will be best to take a look on the top floor at the different products.

(attached image of example Waste Boxes and Konica tubes that require cleaning)

Waste Powder Recycling

- Target *25 WB per hour per person*
- Target *300 KM bottles per hour per person*
- Target *300 Scrap tubes per hour per person*

Top tip:

Make sure to look at what is currently on the market and how it is working.

Here are some examples of the KM tubes that we use.

