

## CHAPTER I

### 1.1 INTRODUCTION

James King in 1851 created the first washing machine to use a drum. Hamilton Smith in 1858 patented a rotary version and in 1868 Thomas Bradford, a British inventor created a commercial successful machine that resembles the modern device.

A washing machine is a **machine that washes dirty clothes** it contains a barrel into which the clothes are placed.

This barrel is filled with water, then rotated very quickly to make the water remove dirt from the clothes.

There are two main types of washing machines in the market today **top load and front load washers**. The differences between these two styles are significant, including how they function how well they clean and other design factors.

### 1.1 DEFINITION

According to **Nicolas Rivero** (Quartz, 21 Jan 2022) As a result getting semiconductors ready for a car, smartphone, or washing machine depends as much on testing and packaging plants as high-tech fabs”.

According to **Jennifer Castenson** (forbes, 4 Jan 2022), “In colder seasons, the washing machine needs more electricity to heat this water from outside temperatures to washing temperatures of 100° F or more.”

According to **jenifer Rude Klett**, (Mileaukee Journal Sentinel, 17 Feb, 2022) “ Popping them in the washing machine is a low- maintenance, low-cost method of keeping the furniture clean , according to slipcover sewe andrae, in Hartland.”

According to **Amy Schulman**,(PEOPLE.com, 16 Feb 2022),” Plus the mop comes with two extra pad, which can be cleaned in the washing machine and used again.”

According to **Washington post**(1 Feb 2022) if you mop has a detachable microfiber cloth toss is in the washing machine with laundry detergent Filbotte says “

According to Frances Sola – Santiago (Refinery29.com 23 Dec 2021) “after wearing the machine set to a holiday dinner earlier this month ,Grechko took the time to read Guyana’s care instructions that advised washing the set separately in cold water and on a delicate washing machine cycle.”

According to Amy MArturana Winderi (SELF 24 Nov 2021) “Generally down feather pillows and down alternative pillows can go in the washing machine on the gentle cycle while most foam pillows shouldn’t be macine wasted”.

According to **Roger Catlin** (Smithsonian magazine 19 Nov 2021) “Sustainability and the climate loom large within the exhibition perhaps no more so than in the washing machine setup whose wastewater is used to help grow a garden of wetland plants in an adjoining tank.”

### **1.3 MEANING**

A machine for washing especially one for washing clothes and household linen.

A washing machine (Laundry machine, clothes washer, or simply wash) is a home appliance used to wash laundry.

The term is mostly applied to machines that use water as opposed to dry cleaning (which uses alternative cleaning fluids and is performed by specialist businesses) or ultrasonic cleaners.

## **1.4 OBJECTIVES OF WASHING MACHINE**

A Washing machine is an appliance for cleaning clothes. It uses a combination of a mechanical process (rotating and rubbing the clothes against each other) and a chemical process (the reaction of soap and water to remove dirt and greasy stains) to get the clothes clean.

Most home – use washing machines consist of a vertical barrel mounted on top of an agitator. The agitator is able to rotate the barrel clockwise and to spin the barrel at low or high speeds.

Water is introduced into the barrel at the beginning of a wash cycle , the clothing is spun at various speeds until a final spin cycle drains most of the water from the clothes.

After washing the clothes may be hung up on a clothesline to dry, or can also be dried in a clothes dryer.

## **1.5 FEATURES OF WASHING MACHINE**

Although it doesn't seem that NASA will be able to create a washing machine that works in space anytime soon, the future of washing machines is looking extremely futuristic. While we have seen rapid development in innovation with modern washing machines, it is very exciting to see where washing machines may go in the future From Making washing machines lighter to creating ways to reduce water – the latest updates in the future of washing machines extremely interesting. In this blog post, we chose 3 Stories that highlight the future of washing machine as well as give us an indications as to what se may see in the future! If you are interested in finding out more about washing machines or if you are thinking about the enquire with Howards Electrical using a contact form on our website or telephone our friendly team now on.

## **1.6 FUNCTIONS OF WASHING MACHINE**

The washing machine concept is pretty simple – it agitates your clothes in a soapy suds and water to remove any dirt and stains before spinning to drain the water after the cycle.

### **1.6.1 THE PARTS OF THE WASHING MACHINE:**

The washing machine concept is pretty simple – it agitates your clothes in a soapy suds and water to remove any dirt and stains before spinning to drain the water after the cycle. The main components of a washing machine is the drum. Which fills up with water but did you know that washing machines actually have two drums, not one? Your average washing machines is made up of:

**AN INNER DRUM:** This is where you put the clothes when you' re ready to wash. You'll notice this drum rotates a bit when you touch it and there are a lot of holes punched into the drum. These allow the allow the water to come in and wash the clothes.

**PADDLES:** these are ridges that lie on the edge of the drum and help move your clothes around while being washed.