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How Watches Work And Their Different Mechanisms

Watches are the only means of keeping time on the go and are now a new way of showing off your style; now, it is more of a fashion statement. Everyone has a watch these days, but have you ever imagined how these watches work? Have you ever thought what the basic types of watches are and what is the fundamental mechanism behind them? Well, there are basically three types of mechanisms, by which a watch can work; self winding watches, quartz watches and smart watches. Let us talk about the self winding or automatic watches.

A watch is a device used to tell time and is wrapped on the wrist with the help of a strap. With innovation in expertise, watches now not only display time, but are now actually outfitted with a wide variety of other functions, from date, day, month and year and even your location. Features like a calculator and video games are additional on some of them as well.

Most of the people are unaware of the working of a watch. The mechanisms are very interesting, based on simple functions. Power of the watch is the vital thing to consider, which is either done with the help of a battery, or there is some winding mechanism placed. Battery needs to be changed after a specific time period. Although winding has low maintenance cost but now people do not have that much time to wind them with tiny gears.

Automatic watch is preferred mostly by the people who do not want it to require any power, and there is no need to wound it everyday. It stores the energy and is wounded by the movement of the person who is wearing the watch. The time watch the will last for varies, depending on the manufacturer.

Nowadays, automatic watches are favoured as they do not need any power, and there is no hassle to wound it daily. It saves power and is wound by the movement of the individual wearing it. The time the watch will last is variable and depends on the manufacturer.

Electronic movements are based on piezoelectric effect. They have lesser or no moving parts. Timekeeping mechanisms are very accurate and run at a stable frequency. The reason is that they have a quartz crystal, which forms a quartz oscillator vibrating at a stable rate.

"Piezoelectric effect" is the foundation of electronic movement. They entail few or no moving parts. Timekeeping mechanism is precise and run at constant regularity. The quartz crystal in them forms a quartz oscillator, vibrating at a constant rate. Be it digital or analogue, the basic purpose of a watch is to display time. Principle is the same for their working. All parts of the watch should be accurately functioning for smooth running. Appropriate care of watches cannot be over looked in this regard. Keeping them away from water and electric waves is a must. If proper care is not taken along with insufficient maintenance, they may get sluggish and eventually get out of order.

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