

**Radio-Controlled Movement**

A quartz-controlled movement that receives transmitted time information from the DCF 77 via a receiver integrated in the movement. The time displayed is compared and synchronized with the DCF 77 time signal every 12 hours.

**Radio-Controlled Watch**

A watch that receives a time signal from a central radio transmitter. Due to its continuous synchronization, the radio-controlled watch is the most accurate form of measuring time. In addition, it offers the convenience of switching automatically between standard time and daylight saving time.

**Ratchet**

The ratchet consists of a ratchet wheel, stop click and click spring. This unit allows the mainspring to be wound at the same time as preventing it from unwinding uncontrollably.

**Regulator**

The regulator is a part of the regulating device. The accuracy of the movement is adjusted by turning the regulator.

**Sapphire Crystal**

Watch glass made of industrially manufactured sapphire, which is extremely scratch-resistant due to its exceptional hardness.

**Self-Winding Movement**

A mechanical movement that derives its energy from the motion of the wearer's arm and thus does not require manual winding. The automatic winding of the watch is accomplished by a rotor that moves as long as the watch is kept in motion.

**Shock Absorber**

The shock absorber is a protective device in a mechanical watch which prevents breakage or deformation of the balance pivot in the event of impact or shock. The shock absorber spring in this unit serves to cushion the components.

**Solar Watches**

A quartz movement complemented by solar technology. Key components are a solar cell, charging and discharging control as well as a memory. The glass solar cells and the memory are based on state-of-the-art manufacturing technologies. Our solar watches can function for up to six months without exposure to light.

**Split Function**

Display of interim times with a stopwatch, as the stopwatch continues to run in the background.

**Synthetic rubber strap**

A watch strap cast of polyurethane (synthetic rubber), with skin-friendly properties, very good resistance to water and chemicals, as well as good wearing properties.

**Tachymeter**

A watch scale used to compute speed. If a chronograph is started at a marker, the point on the tachymeter scale adjacent to the second hand when passing the next marker will indicate the speed of travel between the two.

**Telemeter**

The telemeter scale enables an estimate to be made of the distance in km between the source of a light and the point at which a connected sound is heard, e.g. the distance of a thunderstorm, by counting the seconds between seeing the flash of lightning and hearing the thunderclap.

**Time Tunnel**

A testing facility developed at Junghans for radio-controlled watches. It enables the checking of whether the maximum guaranteed reception of our radio-controlled watches fulfils predefined requirements. Every radio-controlled watch produced at Junghans undergoes this test.

**Timing Machine**

Test equipment for measuring the accuracy of mechanical watches. The timing machine enables the watchmaker to adjust the movement with the greatest possible degree of accuracy.

**Titanium**

Approximately 0.6 per cent of the earth's crust is composed of titanium (Ti). Due to its low specific weight/tensile strength, and remarkable skin-friendliness, it is often used for watch cases and bracelets.

**Wheel Train**

The wheel train, whose individual components are mounted in the wheel bridge, serves to transmit the energy of the mainspring through a series of ratio levels to the escapement. In addition, the wheel train serves to drive the hands of the watch.

**Water-Resistance**

Junghans timepieces are tested for water-resistance according to DIN 8310. This pressure testing applies only to brand-new watches. External factors, such as damage to the crown, latch or glass, may influence water-resistance. Have your watch checked regularly.

**Winding Wheels**

The winding wheels transmit to the mainspring the energy added to the movement by winding the crown.