



"Reliable Family Run (Husband & Wife Formed)"

"Twice recommended by "Time Out" London in 2006"

"Finalist of the Training and Development Barking & Dagenham Business Awards 2008"

"Finalist of the "Best New Business" and "Entrepreneur of the year" Kingston Business Awards 2010"

Commercial and Domestic Dishwasher

A washing machine (laundry machine, clothes washer, or washer) is a machine designed to wash [laundry](#) , such as [clothing](#) , [towels](#) and [sheets](#) . The term is mostly applied only to machines that use [water](#) as the primary cleaning solution, as opposed to [dry cleaning](#) (which uses alternative cleaning fluids, and is performed by specialist businesses) or even [ultrasonic cleaners](#) .

Inside a Washing Machine

If we take a look under the washing machine, you'll see what makes it so heavy.

Yes, that is in fact a block of concrete in the picture above. The concrete is there to balance the equally heavy [electric motor](#) , which drives a very heavy gearbox that is attached to the steel inner tub. There are lots of heavy components in a washing machine.

The washing machine has two steel tubs. The inner tub is the one that holds the clothes. It has an agitator in the middle of it, and the sides are perforated with holes so that when the tub spins, the water can leave.

The outer tub, which seals in all the water, is bolted to the body of the washer. Because the inner tub vibrates and shakes during the wash cycle, it has to be mounted in a way that lets it move around without banging into other parts of the machine.

The inner tub is attached to the gearbox, which is attached to the black metal frame you see in the picture above. This frame holds the motor, gearbox and the concrete weight.

The cable on the left side of the picture is the other end of the same cable that you see on the right side. There are a total of

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so that if one side of the frame moves up, the other side moves down. This system supports the weight of the heavy components, letting them move in such a way as not to shake the entire machine.

But, if all of these parts are just hanging by cables, why don't they swing around all the time?

A laundry machine has a damping system that uses [friction](#) to absorb some of the force from the vibrations.

In each of the four corners of the machine is a mechanism that works a little like a [disc brake](#) .
The part attached to the washer frame is a
spring
. It squeezes
two pads
against the
metal plate
that is attached to the black frame. You can see where the pads have polished the plate from
movement during vibration.

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