



# ARC VERIFIED



## YOUR GUARANTEE THAT THE MACHINE DOES WHAT IT NEEDS TO DO!

ARC (Absolute Run-Flat Compatibility) is a standard we have set to ensure that customers can have complete confidence in what they are buying, and in what we have to say.

Run-Flat technology first reared its head as far back as the '80s, however it was a couple of decades before the concept really took hold, and it is now fast becoming the 'norm'.

### What makes run-flat tyre difficult to fit and remove?

This is really easy to explain. A run-flat tyre is designed to enable the driver to continue travelling at a limited speed, and for a limited distance, despite damage to the tyre causing the air to release. The tyre design is such that it has a 'self-supporting sidewall'. This means that, even in the event of air exhaustion, the tyre retains its position on the rim, and doesn't go – well – flat! Think of the weight of even the lightest car, and then think how strong that sidewall has to be to support that weight. This will give you an idea of how difficult working with that tyre becomes. Tyres traditionally had elasticity; they were 'baggy'. Now, they're rock solid. The fact that tyre profiles are typically lower just compounds this issue.

### What is required to enable the easy fitting and removal of run-flat tyres? Why should I be vigilant as to what tyre changer I am buying?

In simple terms, you need more than two hands, and you need power that a human can't deliver. To overcome this, tyre changer manufacturers supply additional equipment, often called 'help' or 'assist' arms. These arms provide multi-position manipulation of the tyre, to enable smooth and damage-free fitting or removal.

With the advent of low cost machines from China, some of which are genuinely pretty good, the market for tyre changers has become a bit of a minefield. There are some factories that purely copy, they don't innovate or design, they just take a product and try and copy it at the lowest possible cost. We have seen machines which literally have bead pressing devices in the wrong place or at the wrong angle, or pneumatic cylinders that simply aren't powerful enough to depress the bead on a stiff sidewall. In simple terms, if a machine is really cheap, it's doubtful it is really that good, and very doubtful it can cope with all types of run-flat tyre.

### So what does ARC do to satisfy any concern?

ARC is a guarantee that every conceivable run-flat variety, regardless of make or model, has been tested on the machine. All of our megamount and Luxus machines are, at the bare minimum, ARC verified. This means we operated the machine on all of those tyres, and it handled them comfortably. 'ARC+' is the highest level of compatibility, and this means that the job is even easier due to additional automation or additional 'helpers'.

Typical tyres tested for ARC verification of our tyre changers include, but are not limited to, Hankook Ventus S1, Kumho Ecsta, Bridgestone Drive Guard, Davanti ProToura, Landsail LS588, Pirelli P Zero, and Dunlop DSST.