

# TYRE FITTING

## — THE PROCESS —

Professional tyre fitters like Mr Tyre use industrial tyre-changer machines. This makes removing and replacing tyres quick and easy.

Whether you want tyres for an economical city runabout, mile-munching run-flat tyres or the knobbyest 4x4 tyres on the market - this is the tyre fitting process we use to furnish your motor with new rubber.

### 1. Deflate the old tyre

Removing the valve stem core releases the air from the old tyre. This makes it safe and more workable throughout the removal process.

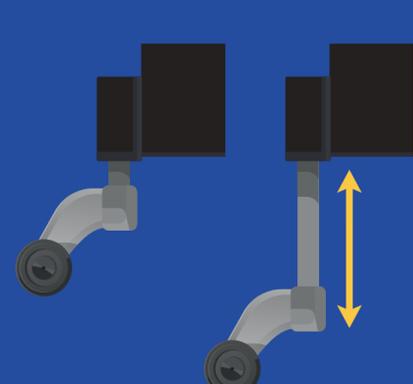


### 2. Break the tyre bead

Using the bead-breaker on our tyre-changer machine, we take the wheel and 'break' the bead of the old tyre away from the rim. This removes the contact seal that has hardened over many miles of use and is done on both sides of the tyre.

### 3. Secure the wheel to the tyre charger

The wheel is clamped into position on the tyre-changer using four clamps in the centre of the rotating work surface, known as the turntable.



### 4. Lower the roller arm

This arm is powerful enough to fold the tyre away from the wheel rim while rotating it; this softens the tyre and allows the fitter to see the rim and access the tyre bead.

### 5. Lubricate the old tyre bead

Lubricating the old tyre bead protects it from damage, in case it is to be reused and allows the tyre fitter to remove the old tyre with less effort.

### 6. Lower the duckhead arm

This arm has a specialist head, shaped to fit the wheel rim closely and is metal (with a protector) or plastic to avoid rim damage.

### 7. Pop part of the tyre bead over the duckhead

Using a long metal bar, the first part of the tyre bead is manually forced over the wheel rim exactly where the duckhead is sitting on the wheel rim.



### 8. Rotate the turntable

With the duckhead fixed in place over the wheel rim and the turntable rotating, the tyre bead will be forced out and away from the wheel rim.

### 9. Repeat on the opposite side and remove the tyre

The wheel doesn't need to be remounted on the machine; the bottom bead is loose at this point and needs minimal manipulation to remove from the wheel rim.



### 10. Replace the old valve stem

It's good practice to replace the valve stem with a new one because the old stem may be damaged, corroded or have cracked rubber. Now you are ready for new tyres!

### 11. Lubricate the new tyre beads

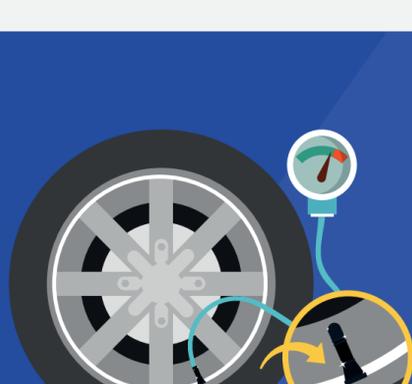
This helps the machine seat the bead effectively and forms a contact seal between the tyre and the wheel rim. Place the new tyre onto the wheel rim, ready for it to be seated correctly.

### 12. Seat the new tyre beads

Rotate the turntable with the duckhead arm, roller arm and third arm in place to seat the beads onto the wheel rim.

### 13. Inflate the tyre and replace the valve stem

This helps the machine seat the bead effectively and forms a contact seal between the tyre and the wheel rim. Place the new tyre onto the wheel rim, ready for it to be seated correctly.



### 14. Wheel Balancing

The wheels are now ready to be balanced, using another machine and specialist skills which attach wheel weights to the wheel rims.

### 15. Fitting Process

Typically the tyre fitting process takes 30 minutes per tyre, though this varies depending on the tyre type, wheel type and the vehicle. Additional services will also add time onto the overall process.

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