



RUNFLAT INTERNATIONAL RANGE

Essentially we have 4 RunFlat product ranges for wheels of a diameter usually between 14" and 24":

- 1) **Ty-Lok** is a heavy-duty fully metallic security band which fits in the well of the wheels. It locks the tyre on the wheel, preventing it from slipping of the wheel when deflated. This gives good driver control after a tyre blowout at speed and allows the driver to continue for several kilometres with a flat tyre. Ty-Lok can accommodate both tubed and tubeless tyres.

- 2) For more demanding applications requiring a vehicle to safely cover distances up to 100km with one or more deflated tubeless tyres, RunFlat International has developed various systems which can be fitted quickly without special, expensive tooling and which are re-useable. For single-piece wheels, we offer a **Dynamic System** made of 2 or 3 antiballistic composite segments bolted around the wheel rim which remain fixed on the rim when the tyre is fully inflated but slip in the opposite direction to the forward rotation of the tyre and wheel when the tyre is deflated, compensating for the difference in diameters between the tyres on each side of the axle. Within this range, we offer 4 main run flat capabilities (other variants do exist based on specific clients' requirements):
 - a. **Dynamic 15km**: a light-duty 2-segment system designed and manufactured to cover 15 km at 50 km/h on road in run flat mode.
 - b. **Dynamic 30km**: a 2-segment system for cars and 4x4's or a 3-segment system for trucks designed and manufactured to cover 30 km at 50 km/h on road in run flat mode.
 - c. **Dynamic 50km**: a 3-segment system designed and manufactured to cover 50 km on road (3km at escape speed up to 90km/h, 10km at 50km/h and 37km at 25km/h) or 30 miles at 30 mph on road or 40 km off road at 20 km/h in run flat mode.
 - d. **Dynamic 100km**: a 3-segment system designed and manufactured to cover 100 km on road (3km at escape speed up to 90km/h, 22km at 50km/h and 75km at 25km/h) or 60 km off road at 30 km/h in run flat mode.

3) For multiple-piece wheels (and tubeless tyres), we manufacture a **Static System** made of 3 antiballistic imperishable composite segments bolted tightly around the wheel rim which remain fixed and keep the tyre in place whether inflated or not. Its “beadlock” function is particularly strong in run flat mode thanks to its patented shape. This system, primarily designed for military applications on and off-road, typically allows 50 to 100 km in run flat mode:

- a. **Static 50km:** a system designed and manufactured to cover 50 km on road (3km at escape speed up to 90km/h, 10km at 50km/h and 37km at 25km/h) or 30 miles at 30 mph on road or 40 km off road at 20 km/h in run flat mode.
- b. **Static 100km:** a 3-segment system designed and manufactured to cover 100 km on road (3km at escape speed up to 90km/h, 22km at 50km/h and 75km at 25km/h) or 60 km off road at 30 km/h in run flat mode.

In terms of terminology, the **Static RunFlat** is designed for 3-piece demountable rims whereas the **EcoStatic RunFlat** is for 2-piece demountable (bolt-together) rims. They are functionally identical, physically similar and mostly differ in the way they are installed (due to the rim construction).

4) For multiple-piece wheels (and tubeless tyres), we also offer a **Beadlock** made of an imperishable elastic polymer: a single-piece system which is inserted on the rim and covers it from one tyre bead to the other. It remains fixed and locks the tyre beads at all tyre pressures, thus preventing the tyre to slip on the wheel (at low pressure, typically sand pressure) and ensuring that the vehicle retains traction at all times. Unlike a Static RunFlat, this system is not a run-on system but it enables short distances in run flat mode in emergency situations but it does not protect the wheel.



Ty-Lok Band



Dynamic System



Static System



Beadlock

Each system can be tailored to the customer's specific requirements (distance to cover after the puncture, peak speed, type of terrain, geometry of the wheel, tyre profile, wheel load, etc). In addition, RunFlat International also offers a range of tyres, **wheels** and related accessories such as central tyre inflation systems (valves) in order to provide a complete system ready to fit on the vehicle. RunFlat International is regularly consulted to design and supply complete wheel systems for bespoke applications involving steel, cast or forged alloy, single or multi-piece wheels for any load rating and vehicle configurations. Our **tyre fitting centre** can also provide a RunFlat fitting service from tyres and/or wheels which are free-issued to us or supplied by RunFlat International which represents major brands such as Michelin, Continental, BF Goodrich, etc...

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