

## RUNFLAT INTERNATIONAL RANGE

RunFlat International has developed various RunFlat systems, which are available for all types of wheels from 14" to 27". All our products can be fitted quickly without special, expensive tooling and are re-useable and recyclable.

Each system can be compliant with FINABEL requirements or tailored to each customer's specific requirements (distance to cover after the puncture, peak speed, type of terrain, geometry of the wheel, tyre profile, wheel load, etc).

### Dynamic RunFlat System

For single-piece wheels, we offer a Dynamic RunFlat 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 3 main run flat capabilities (other variants do exist based on specific clients' requirements):

**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.

**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.

**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.



## Static RunFlat System

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, is typically available to 2 main runflat capabilities.

**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.

**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.



## Beadlock System

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 from slipping on the wheel (at low pressure, typically sand pressure) and ensuring that the vehicle always retains traction.

Unlike a Static RunFlat, this system is not a RunFlat system, only enabling short distances in run-flat mode in emergency situations.



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## **Single Piece Wheels**

Runflat International offer a range of lightweight high load wheels (with 2 safety humps for optimal runflat performance) for these military and security vehicles, designed to cope with the increased loads and stresses that occur when a vehicle is armoured.

With full European manufacturing facilities, Runflat International have CAD and FEA modelling facilities and can supply forged/cast alloy and steel wheels manufactured using the highest quality automotive standards and can ensure complete control and traceability throughout the process.



## **Multi Piece Wheels**

RunFlat International offer multi piece wheels designed for loads up to 5000kgs, which are available in both steel and aluminium. Designs are available as bolt-together or three-piece wheels and include popular sizes such as 20" x 10" and 20" x 11".

Bolt-together wheels can be disassembled and reassembled in the field with standard fitting tools and when fitted with our Static RunFlat will allow for a fully mountable/demountable RunFlat and Wheel solution.

Runflat International can also integrate CTIS (Central Tyre Inflation System), allowing tyre pressure control in motion and improving vehicle mobility in difficult terrain.



## **Complete Wheels**

RunFlat International have built their product range on the concept of overall tyre protection. This now goes beyond just the RunFlat system in our offering of complete wheel solutions, working with major brands such as Michelin, Continental, BF Goodrich to supply fitted, balanced and inflated wheel assemblies.

By offering a finished solution for all wheel types, customers can be confident that the RunFlat system has been fitted correctly and ensures the wheel, RunFlat system and tyre assembly can be fitted straight onto the vehicle.



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