

ProTec[™] Independent Front Suspension

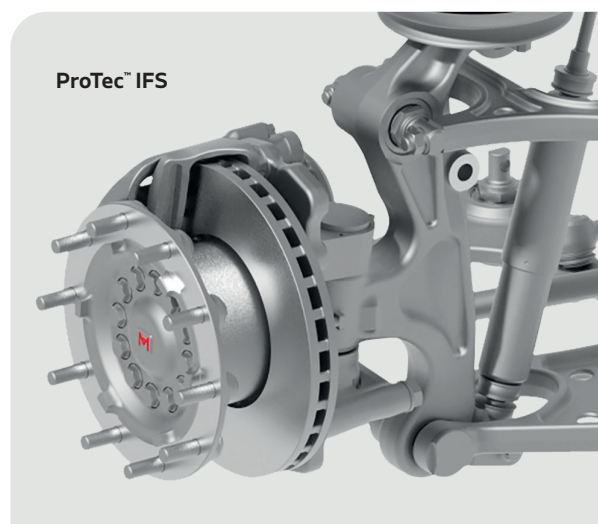
The Meritor ProTec Independent Front Suspension (IFS) is based on the field-proven technology in our industry-leading independent suspensions and beam axles. Purpose-built for the most demanding applications and backed by our extensive heritage of delivering innovative on-highway, off-highway and specialty vehicle solutions for more than a century, the ProTec IFS is our answer to the suspension requirements of the bus industry.

The ProTec ISAS brand has been synonymous with quality and durability for high-mobility vehicles for over 20 years and the ProTec Independent Front Suspension (IFS) leverages this expertise in design and performance. The suspension and steering system have been designed to be a “drop-in” replacement for existing suspensions with an important focus on the ease of use and service, thank you to the maintenance-free joints.



ProTec™ IFS features and benefits

- **Proven independent suspension technology** – The ProTec brand has been synonymous with quality and durability for high-mobility vehicles for over 20 years and the ProTec Independent Front Suspension (IFS) leverages this expertise in design and performance.
- **Built for compatibility** – The entire suspension and steering system is designed to be a “drop-in” replacement for existing suspensions.
- **Modern steering geometry** – Our stiff, low compliance suspension and steering pivots improve driver control and stability for safe and confident handling.
- **Ease of use and service** – The ProTec IFS includes maintenance-free suspension, king pin and steering joints.
- **Manufacturing excellence** – The cast and forge suspension components provide durability, while enhanced suspension kinematics improve ride and handling.
- **Extensive testing and validation** – We complete simulation and optimization through finite element analysis (FEA) and kinematic analysis, including full- and sub-system durability and reliability testing, in our tests labs and real vehicle tests at a proving ground test center.
- **Application specific tuning** – The high-performance dampers from our commercial suppliers provide various tuning methods; steering, air springs and anti-roll bars per the application demands.



MIS-09 technical specifications

Configuration	Double wishbone with rotatable compliant control arm bushings and maintenance free solution
Gross axle weight rating	8,500kg
Wheel mount	Hub-piloted 10-stud 335mm BC
Brakes	Meritor ELSA 225H, Knorr Synact
Total vertical wheel travel	190mm
Hub flange to flange	2420mm
Central clearance	900mm
Max steering angle	up to 60°
ABS hub compatibility	Standard 100 teeth
Tire	From 275/70R22.5 to 315/70R22.5
Options	Air springs with integrated bump aid
	High-capacity twin-tube shock absorbers
	Brake pad wear sensor
	Positive brake pad retraction (PPR™)
	Anti-Roll bar kit

NOTE: Options may not be available on every configuration. Rating, ratios and main dimensions are subject to approval by the Cummins Drivetrain and Braking Systems engineering team.



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