CHASSIS CONTROL 🛫



8 1



MASAHARU SATOU

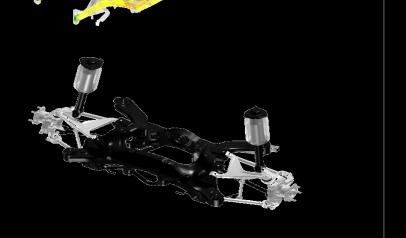
DEPUTY GENERAL MANAGER VEHICLE DYNAMICS ENGINEERING GROUP INFINITI PRODUCT DEVELOPMENT



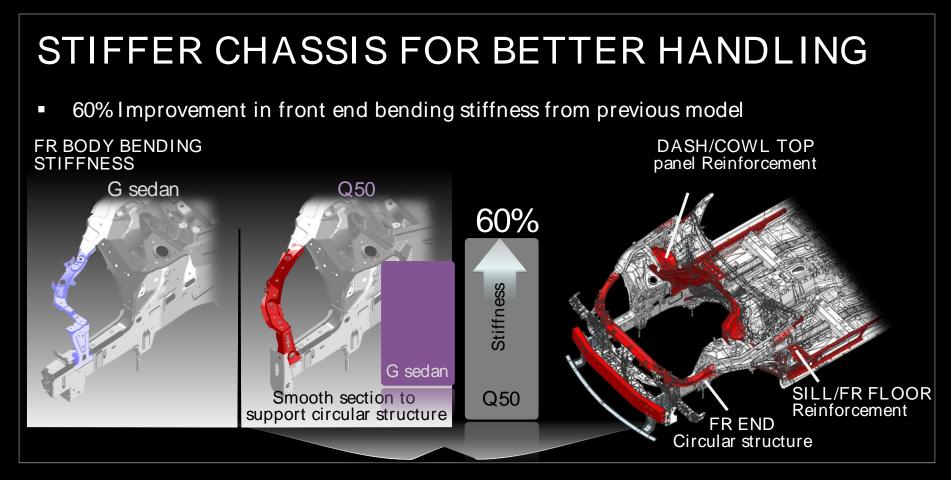
DYNAMIC PERFORMANCE of INFINITI Q50

In control (Precise handling & Small correction)

- DAS (Most advanced steering system in the world)
- Stiffer chassis (Body & Suspension)
- Good aerodynamics CI (zero lift)
- Tire improvement
- Enhancing good fuel economy
- Improved thanks to initial media feedback



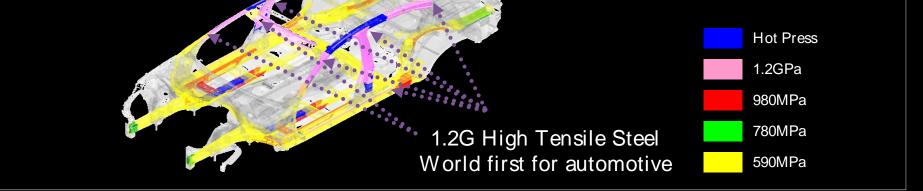






HIGH TENSILE STEEL

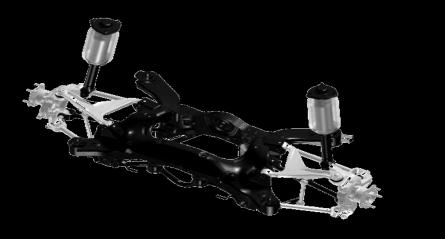
- First use of 1.2G High Elongation and High Tensile Steel
- Weight reduction of 13 pounds
- Provides lower profile structure and additional headroom
- Increases body stiffness





NEW MULTI-LINK REAR SUSPENSION

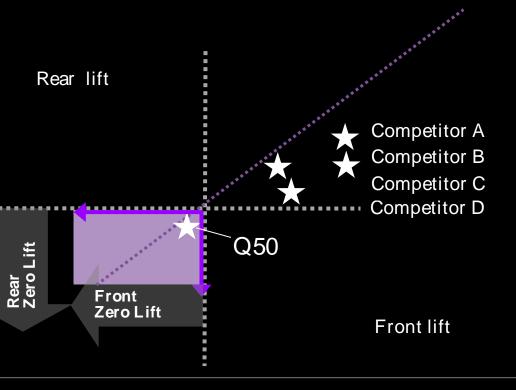
- New geometry & structure
- Camber stiffness 8% improve
- Reduced road noise





AERODYNAMICS

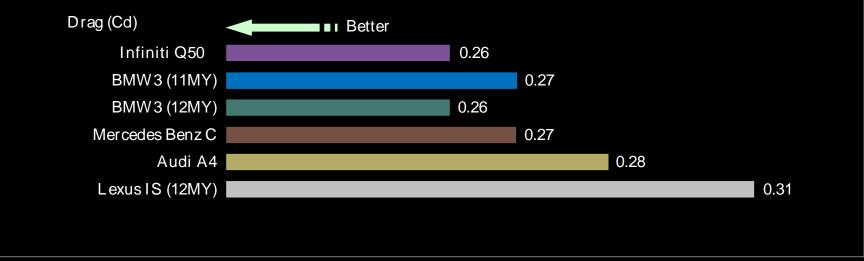
- Infiniti Q50 has zero aerodynamic lift at the front and rear
- Accomplished without front and rear spoilers
- Early collaboration with design and engineering team





AERODYNAMICS

- Drag coefficient is 0.26 Cd
- This contributes to improved fuel economy



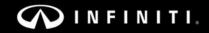


OTHER HANDLING UPGRADES

Upgraded doublewishbone front suspension

B . Q 5036

Reduced unsprung weight 3rd Gen. run-flat tire Good grip Low RRC



DIRECTOR OF PERFORMANCE

Q50



INFINITI Q50 CHASSIS BENEFITS

- Latest generation multi-link rear suspension updated and refined
- Double-wishbone front suspension
- Lower cross-beams and side members from high tensile steel
- Wheel stiffness improved (benefits NVH and chassis stability)
- Active Noise Control (certain models) noise cancelling sound generated from four door speakers
- Rear-wheel drive, mid-ship platform = good weight distribution and well balanced proportions
- Class leading aerodynamics
- World first automotive use Ultra high tensile steel; 2x strength of mild steel
- Handling fine-tuned by four-time world champion, Sebastian Vettel
- Direct Adaptive SteeringTM accurate and direct steering



UPDATES SINCE LAUNCH

- New optional Performance Package
- Staggered conventional tires and new forged wheels
 - 245/40R19 front
 - 265/35R19 rear
- Q50 Sport models with Direct Adaptive Steering[™]
 - DAS mode settings optimized



CONCLUSION

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- DAS (Most advanced steering system in the world)
- Stiffer chassis (Body & Suspension)
- Good aerodynamics CI (zero lift)
- Tire improvement
- Enhancing good fuel economy
 - -1.2G High Tensile Steel



Rolla

CHASSIS CONTROL 🛫



