燃費・電費に貢献する UNIVANCE 取り組み技術

UNIVANCE technology that contributes to fuel and electricity consumption

車両電動化 → カーボンニュートラル

Vehicle electrification → Carbon Neutral

低損失 Low loss	機械摩擦低減 Mechanical friction reduction	かみ合い歯面摩擦仕事 Engagement tooth surface friction work
	流体摩擦低減 Fluid friction reduction	潤滑油攪拌損、歯車回転時風損、潤滑油噛込みポンプ仕事、クラッチ引き摺り損失 Lubricating oil agitation loss, wind loss during gear rotation,lubricating oil biting pump,clutch drag loss
	その他損失 Other losses	歯車加速仕事、潤滑油加速仕事 Gear acceleration work, lubricating oil acceleration work
軽量 Lightweight	高強度化 High strength	表面改質、高強度材料、歯当り最適化 Surface modification, high-strength materials, tooth contact optimization
	形状最適化 Shape optimization	歯車諸元設計、徐肉による形状最適化、支持剛性最適化 Gear specification design, shape optimization by gradual walling, support rigidity optimization
静粛性 Quietness	起振力低減 Vibration force reduction	歯面形状最適化、熱処理歪低減 Tooth surface shape optimization, heat treatment strain reduction
	振動伝搬制御 Vibration propagation control	歯面衝突速度低減、振動モード制御、入出力減衰 Tooth surface collision speed reduction, vibration mode control, input / output damping
走行性能 Driving performance	高減速比 High reduction ratio	平行軸歯車配列、遊星ギヤ配列、トラクションドライブ Parallel axis gear array, planetary gear array, traction drive
	高回転対応 Supports high rotation	歯面損傷防止トライボロジー、歯面潤滑方式 Tooth surface damage prevention tribology, tooth surface lubrication method
	多段化 Multi-stage	変速機構、変速制御 Transmission mechanism, transmission control
	ベクトリング vectoring	独立型、トルク付加型 Stand-alone type, torque addition type