MAHLE has a long and storied history of leading the way in developing technology for the finest engine builders in the world. This technology continues to breed success on tracks around the world, and MAHLE has done it again. The engineers at MAHLE revolutionize performance piston ring technology with the introduction of HV385 performance ring sets. A MAHLE patented high-tech process employing supersonic application technology leading to improved part consistency, greater bonding, and reduced drag. www.mahle-aftermarket.com
MAHLE once again leads the industry with new technology by introducing the off-the-shelf, 1.0mm steel HV385 top, 1.0mm steel napier second, and 2.0mm CP-20™ oil assembly ring packages. The reduced axial height, radial width and high steel alloy construction combine to create a very light, low friction and highly conformable compression sealing and oil controlling combination.

The MAHLE patented HV385 ring face coating is applied using an ultra-high temperature thermal spray process, fueled by pure oxygen and RP1 jet fuel. The resulting jet engine-like combustion event accelerates the molten alloy face coating material to supersonic speeds onto the face of the ring. This high temperature/high velocity stream of molten alloy metal creates a very dense and extremely well-bonded coating on the face of the ring that outlasts even the most demanding operating conditions found in today’s high performance applications. Additionally, the HV385 thermal spray face coating provides unmatched strength, scuff resistance, and overall durability, not obtainable by any other piston ring face coating or surface treatment in the industry today.

The HV385 thermal spray coated 1.0mm top ring features micro-polished side and face sealing surfaces minimizing friction, ensuring quick seating, and providing a uniform barrel face profile. The high alloy steel napier 1.0mm second ring provides superior wear resistance and oil control. Adding the new MAHLE low drag-reduced radial wall 2.0mm CP-20™ oil ring assembly completes the package. The resulting ring pack functions at higher RPM, produces more horsepower, and runs longer between rebuilds, than any other performance ring pack – shelf stock or custom – on the market today!