

John Deere® 6090 PowerTech™ Coverage

FP Diesel's extensive John Deere range features cylinder components and gaskets for the 6090 PowerTech™ Tier 2, 3, IT4 & FT4 engines. This popular 6-cylinder engine is used in a wide range of John Deere agricultural, construction and industrial applications.

Our cylinder kits contain FP Diesel's exclusive one-piece POWERFORGED friction-welded steel pistons. The patented enclosed oil gallery maximizes cooling by allowing a greater volume of oil to reach more of the piston's interior surfaces, while also promoting increased lubrication to all piston pin contact surfaces. The friction-welded cooling gallery results in a box structure that significantly reduces piston deformity and increases support to the ring lands.

FP Diesel POWERFORGED pistons are finished with a proprietary manganese phosphate coating to insure superior break-in and greater resistance to scuffing. The combination of manganese phosphate coating and profiled pin bore allows these pistons to operate without bushings for increased durability.

The FP-R530609 liner is made from a specially formulated ductile cast iron - designed and tested to withstand the high cylinder pressures found within the 6090 engine. Unlike typical wet sleeves, the 6090 liner has considerably thinner wall thickness. A gray iron liner cannot withstand peak firing pressures and could fail prematurely.

FP Diesel's exclusive ML7™ head gasket complements our 6090 cylinder components. This patented 7-layer design provides enhanced combustion and fluid sealing capabilities as well as high-temperature resistance. The reinforced gasket body increases lateral stability and provides a rigid backbone to the combustion seal.

Part Number	Description
FP-DZ10211	Cylinder Kit w/ Piston FP-RE529264 Also Contains Pin and Retainers
FP-DZ110134	Cylinder Kit w/ Piston FP-RE555132 Also Contains Pin and Retainers
FP-DZ10083	Piston Ring Set
FP-R530609	Liner with Shim
FP-R525541	ML ⁷ Cylinder Head Gasket
FP-RE528402	Cylinder Head Removal Gasket Set
FP RE528400	Complete Overhaul Gasket Set

