



Premium Engine Solutions
BECAUSE DOWNTIME IS NOT AN OPTION.

DIGITAL DIAMOND PROFILED (DDP) PISTON SKIRTS

Sealed Power® Piston Technology

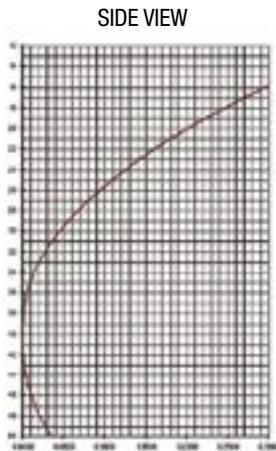
Today's machinists and engine builders are looking for more efficient ways to build a better engine. Sealed Power Digital Diamond Profiled (DDP) piston skirt profiles provide the engine builder with precision uniformity and engine-efficient properties.

The diamond profiling process is so precise that each finished piston diameter is within 16 microns of the rest. This makes for more efficient engine block machining with uniform bore sizes.

ADVANCED, PRECISION SKIRT PROFILES

Vertical Barrel Shape

- Top and bottom of skirt profiles are designed to compensate for thermal expansion to control contact with the cylinder wall, control ring to cylinder bore contact angle for proper sealing of combustion gases, and to allow the piston to “roll” rather than “slap” within the cylinder, reducing noise.
- Barrel profile promotes an oil wedge – hydrodynamic lubrication – between skirt and cylinder wall thereby reducing wear and friction (vs. straight-taper pistons, which tend to scrape oil off the cylinder wall).



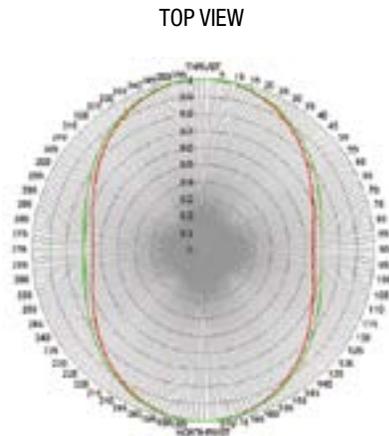
Barrelled Skirt Vertical Profile
(viewed in microns)



DDP Precision Skirt Profile

Horizontal Oval Shape

- Accommodates skirt deflection while maintaining proper skirt-to-wall contact under load.
- Prevents piston skirt scuffing/scoring on outside corners.



Oval-Shaped Horizontal Profile
(viewed in microns)

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