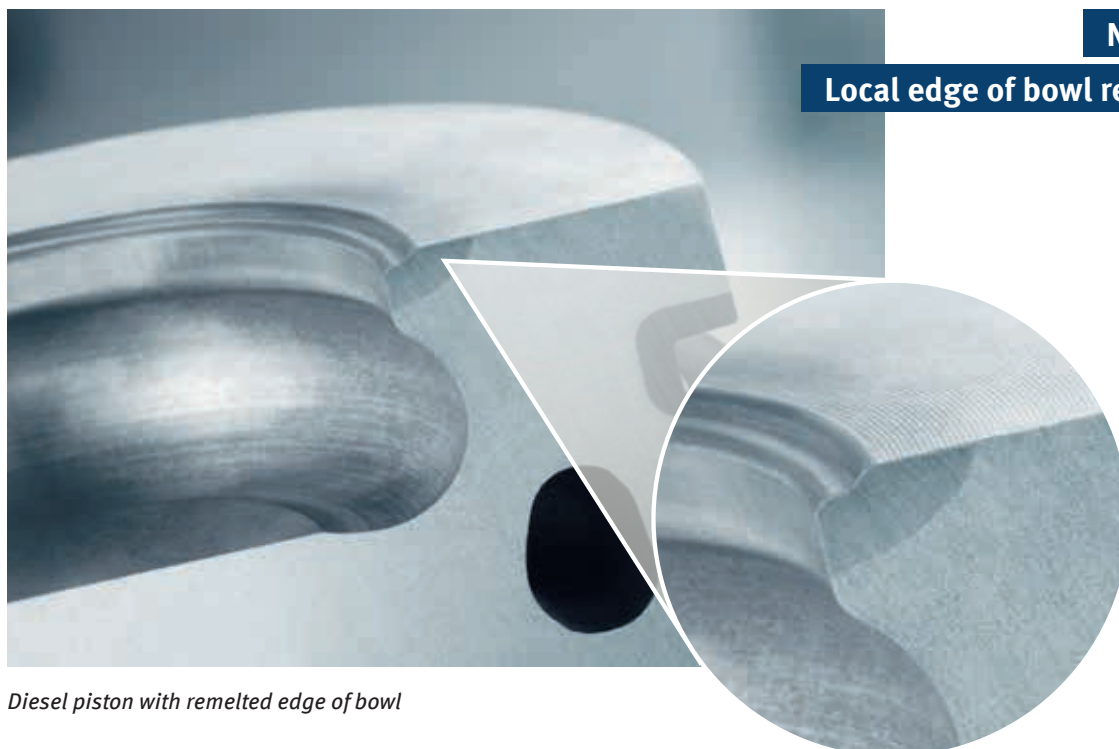




Piston with remelted edge of bowl

New technology

Local edge of bowl remelting (MRU)



Diesel piston with remelted edge of bowl

For particularly high thermal and mechanical loads on the edge of bowl on diesel pistons, Kolbenschmidt has developed a remelting process. During this process, the high-load area is re-melted in a controlled way. This creates an optimized joint with a fine, homogeneous micro-structure (see Fig.).

The thermal stability of the critical area is thus increased by up to 60 percent. Further advantages include higher process stability compared with casting and improved surface quality during machining. The remelting procedure represents a customised solution that considerably increases the reliability and quality of diesel pistons.



Note:

Motorservice now offers the first piston with the characteristic "edge of bowl remelting" for the free aftermarket.