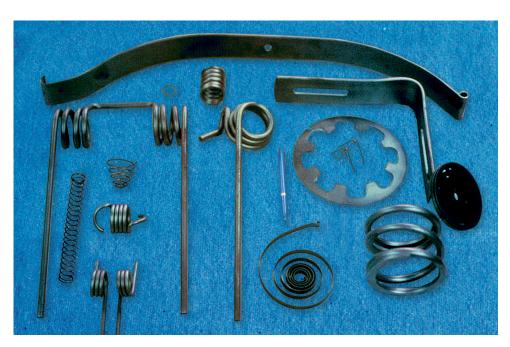
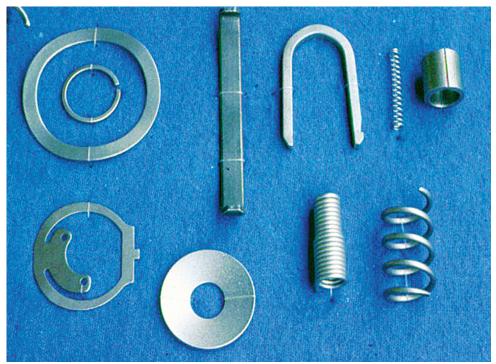


Shot peening and decarburization





Decarburization by heat treatments

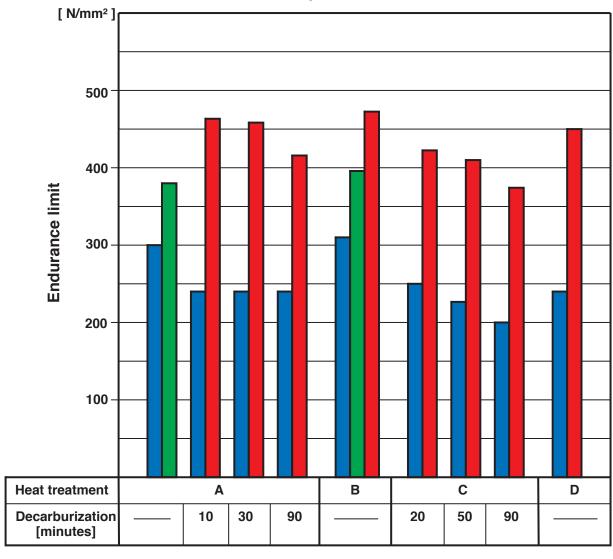
Heat treatments caburize or decarburize the surface layer of parts, depending on the amount of heat, the time, the carburizing powder and the adjacent medium. Decarburization reduces the fatigue strength of parts.

Subsequent shot peening improves the fatigue strength to at least the level before decarburization occured and removes scales.

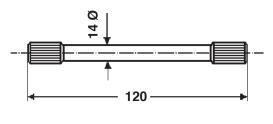


Shot peening and decarburization





A = tempered and decarburized	= decarburized
B = tempered not decarburized	= decarburized and polished
C = austenized and decarburized	= decarburized and shot peened
D = austenized not decarburized	- decarburized and snot peened



Torsion bar