

3. PTA plasma hardfacing

On surfaces where preservation of size is important and on surfaces exposed to extreme abrasion and where maximal service life together with trouble-free function as for minimal negative impact on the processed substance is required – e.g. on surfaces of auger blades of mixer augers, mixer cones, chamber linings, screens – the PTA (Plasma Transferred Arc) technology and material with high contents of tungsten, chromium or titan carbides in powder form are used. The thickness of the hardfacing layer depends on the conditions of use of the individual wear parts. The advantage of the method consists in long service life of the hardfaced parts, geometric fidelity, good “sliding characteristics” of the parts as compared to other hardfacing methods with contents of the above stated carbides.

