

Abstract

The liquid-cooled grate plate comprises a carrier and drive design, a separate cooling body (K) which can be inserted in this carrier and drive design and through which liquid can flow, and wear plates mounted on this cooling body. The cooling body (K) is a welded design composed of rectangular tube sections (20-26) and profiled sections (27), wherein this design forms continuous elongated recesses (28-30) extending over the entire extension thereof, with the exception of the rectangular sections (23-26) bridging these hydraulic cylinder-piston unit, which is accommodated on the inside of a rectangular tube (18) that is guided displaceably in a tunnel-like aperture. Between the wear plates and the cooling body (K) a highly thermally conductive soft silicone foil (31) is clamped, which ensures good heat transfer. In this way, it is ensured that during operation the wear plates always remain in a non-critical temperature range in that they are cooled by the cooled cooling body (K) beneath, which heats up to approximately 50°C. This grate plate is much easier and more cost-effective to produce as the welding work is considerably reduced and less complex as a result of use of a separate cooling body (K).