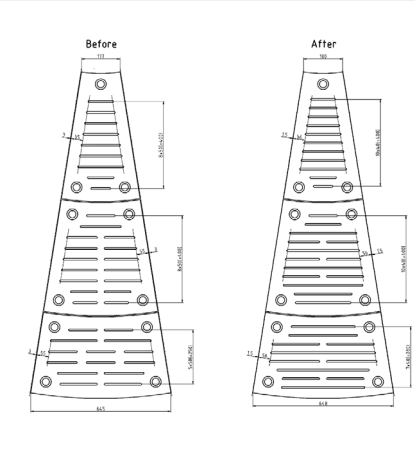
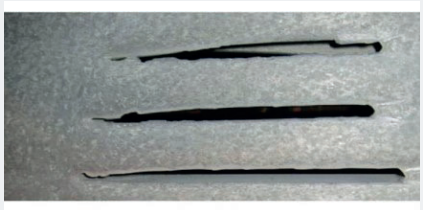
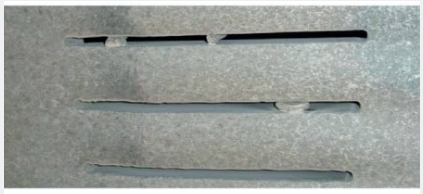
polalloy slotted and backwall plates



polalloy plates with improved slot geometry



Cast plate after 7,450 operating hours



polalloy plate after 14,100 operating hours

Extremely resistant to breakage and wear

polalloy is an extremely wear-resistant material used for manufacturing slotted plates and backwall plates. Plates made of this material have significant advantages compared to products made of cast metals and rolled steel because, polalloy offers a high level of hardness and excellent toughness - this minimises the risk of breakage.

During the patented manufacturing process, the through-hardened plate material is heated only slightly in its initial state – its structure therefore remains unaffected. In contrast to surface-hardened plates, wear thus remains almost constant, even after the first millimetres. Moreover, when wear has been detected, it is necessary to replace only the most affected plate rings. polalloy has a hardness of 58 HRC and also offers excellent toughness. As a result, the risk of plate breakage can be minimised.

polalloy plates are supplied in thicknesses of 50 mm; they can be efficiently used down to a remaining thickness of 8-10 mm.
As opposed to conventional systems that are worn out once 60% of the plate material has been lost, polalloy plates can be used until 84% of the plate material has been lost.

Our experts adjust the slot geometry of slotted polalloy plates to the specific operating conditions. In this way, we ensure process-related optimisation. Clogging no longer occurs with these plates. Hence, little or no cleaning is necessary.

Your service advantages

- Completely through-hardened plate material increases wear resistance
- Process-related optimisations due to a specific slot geometry contribute to an overall optimisation of the processes
- Efficient use of the plates down to a remaining thickness of 8- 10 mm
- Verifiable characteristic values of the material
- No slot deformation caused by grinding media
- Maximum resistance to breakage thanks to excellent toughness

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