

PRONAMIC® H1 tires and grinding plates

for Raw Material, OPC/Clinker/Slag, Coal

PRONAMIC® H1 are finished tires and grinding plates, manufactured with proprietary technologies, materials, and procedures.

PRONAMIC® H1 are composite parts which include tough structural steel, transition layers and wear-resisting layers. This data sheet refers to the final assembly, and not to the individual components or component parts.

With adequate materials, equipment, and procedures by *LOESCHE*, **PRONAMIC® H1** can be reused, refurbished, repaired, and recycled.

Applications

PRONAMIC® H1 tires and grinding plates are designed for abrasive applications under compression (three body abrasion only).

The **PRONAMIC® H1** series offers the lowest investment cost of the **PRONAMIC®** series, however it provides much longer service life than possible with white iron castings.

Restrictions

PRONAMIC® H1 parts are designed for the normal (intended) mill operation; they should not be subjected to direct contact with foreign metallic parts, hard ceramic parts, point loading or impact loading.

To preserve the milling efficiency and product specifications, the recommendations from the Original Equipment Manufacturer regarding maximum wear depths should always be observed.

Variants

PRONAMIC® Variant	Usage
PRONAMIC® H1 - Raw	Cement raw mill applications
PRONAMIC® H1 - Cement/Slag	OPC and composite cements, blast furnace slag, slag cements and fly ash containing mixes
PRONAMIC® H1 - Coal	Hard coal, lignite, anthracite, and pet coke

Note: The variant must be specified when ordering.

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Product Features

The external abrasion-resistant layers of **PRONAMIC®** H1 grinding parts consist of narrow weld beads in the as-welded state, with a dispersion of fine stress-relief cracks (“check cracks”).

The outermost abrasion-resistant layer is composed of several materials. The bulk layer meets the specification standard EN 14700, type T Fe16.

Chemical analysis (wt. %)					
C	Si	Mn	Cr	V	Fe
4.5 - 6.0	1.5 max.	1.0 max.	25.0 - 29.0	10.0 max.	Balance
<i>Note: This guideline refers to the bulk of the abrasion-resistant outer layer, and not to the other specific materials used in the core, the transition layers or special areas with specific stresses and demands in service.</i>					
Hardness					
61 – 67	HRC				

Resurfacing/refurbishing/repair or recycling

For best results, contact the Original Equipment Manufacturer for the resurfacing, refurbishing, repair, or recycling of **PRONAMIC®** parts. In that manner, the adequate recommendations are implemented, under proper technical supervision.

The use of **PRONAMIC®** wires, welding procedures, authorized welding equipment and workforce ensure against metallic contamination, embedded or undetected defects that shorten the service life of the component. Use of ordinary wires, inadequate welding procedures, poor welding equipment and unqualified workmanship may result in low performance, short service life and failure in service.

Always follow the recommendations from the Original Equipment Manufacturer regarding maximum wear depths to preserve the milling efficiency and product specifications.

Welding products and techniques evolve constantly. All descriptions, illustrations and properties given in this data sheet are subject to change without notice and can only be considered as suitable for general guidance. This document is intended to help the user make the correct choice of product. It is his responsibility to assess its suitability for his intended application.