



FACT SHEET

MODERN WEAR PARTS FOR
ENHANCED MILL PERFORMANCE

PRONAMIC®

ALL-IN-ONE SOLUTION

KEY FACTS - PARTS AND SERVICES

ORIGINAL EQUIPMENT MANUFACTURER PARTS

Pronamic® is the LOESCHE approved brand, meeting the stringent specifications and quality standards.

NEW PARTS

Tires, grinding plate and hardfacing wire. Other parts are currently being developed for the market (such as parts made with hardfaced plates). The hardface specification is optional to suit.

AFTER SALES: THREE PLANT SERVICE LEVELS

In partnership with LOESCHE. Three service levels to cover process audits, mill audits or the supply / refurbishment of parts.

AFTER SALES: REFURBISHMENT SERVICES

The Pronamic® welding services teams can refurbish worn parts both in-situ and in the workshop, to suit the client's needs. Different options are available for the type of hardface.

HARDFACE OPTIONS

It is possible to choose the hardface specification (for new parts and for the refurbishment), depending on the abrasivity of the grinding media to optimize the cost.

HARDFACING WIRES

High-quality original wires used in tires and plates H1 and H2 Multilayer.

SPECIFICATIONS - PRONAMIC® TIRES AND PLATES

H1

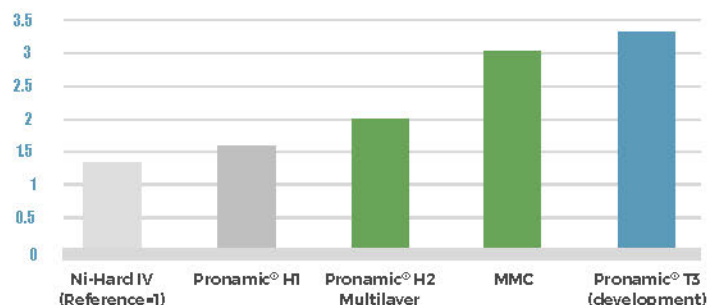
- This refers to the specification of the abrasion-resistant layer.
- Used in standard wear applications.
- Can be topped up regularly by re-welding in-situ.

H2 MULTILAYER

- The H2 Multilayer parts use different welding materials for higher abrasion resistance
- Used in situations of high abrasivity
- Can be topped up regularly by re-welding in-situ

SERVICE LIFE FACTORS

- Service Life Factors are multipliers for the expected service life of the components, relative to Ni-Hard IV. For example, if a Ni-Hard IV component had a specified service life of 8000h, then a Pronamic® H1 component would have a specified service life of 12000h (factor 1.5).
- The older specifications Cromodur and Ni-Hard IV are no longer recommended by Loesche due to their inherent brittleness and crack propensity.
- MMC designates Metal-Matrix Composites.



TECHNOLOGY COMPARISON - TIRES AND GRINDING PLATES

	PRONAMIC® H1 H2-MULTILAYER	HIGH-CHROMIUM WHITE IRON (NI-HARD IV) <i>Note: Cromodur no longer available</i>	METAL-MATRIX-CERAMIC
Return on investment: optimisation through choice of abrasion-resistant materials	● Choices of H1 or H2-Multilayer. Other experimental materials are being developed.	⊗ No options are available	⊗ No options are available
Base material not wasted on replacement: the cost of base material (casting) can be diluted over several refurbishments	● Standard in all Pronamic® parts	○ Pronamic® Services are possible (limited by the existence of brittle cracks in the base material)	⊗ Base material cannot be re-used; the worn part should be scrapped.
Service life	● Customer choice: H1 or H2-Multilayer. Service life factors: x1.5 and x2.24 relative to Ni-Hard IV	○ Service life factors: Ni-Hard IV: x1	● Service life factor: 2.5
Continued services after purchase of parts	● Pronamic® in-situ Services	● Pronamic® in-situ Services	⊗ Not available
Minimisation of inventory cost	● Pronamic® refurbishment = less inventory of replacement parts	● Pronamic® refurbishment = less inventory of replacement parts	⊗ Stock of new parts necessary
Options for (a) parts only or (b) parts & services	● Pronamic® Services are available after purchase of Pronamic® parts	● Pronamic® Services are available after purchase of Pronamic® parts	⊗ No services are available
● POSSIBLE ○ LIMITED ⊗ NOT POSSIBLE			

SPECIFICATIONS - PRONAMIC® HARDFACING WIRES

H1 WIRE

Pronamic® H1 wire is a self-shielded flux-cored wire for welding. The undiluted deposit contains dense and uniform distribution of primary chromium carbides and eutectic carbides of the M7C3 type. The surface appearance is typical for this type of hardface, with a family of stress-relief cracks ("checkcracks").

H2 WIRE

Pronamic® H2 wire is a self-shielded flux-cored wire for welding. The undiluted deposit contains dense and uniform distribution of primary chromium carbides, vanadium carbides and eutectic carbides of the M7C3 type. The surface appearance is typical for this type of hardface, with a family of stress-relief cracks ("check cracks").

T2 WIRE

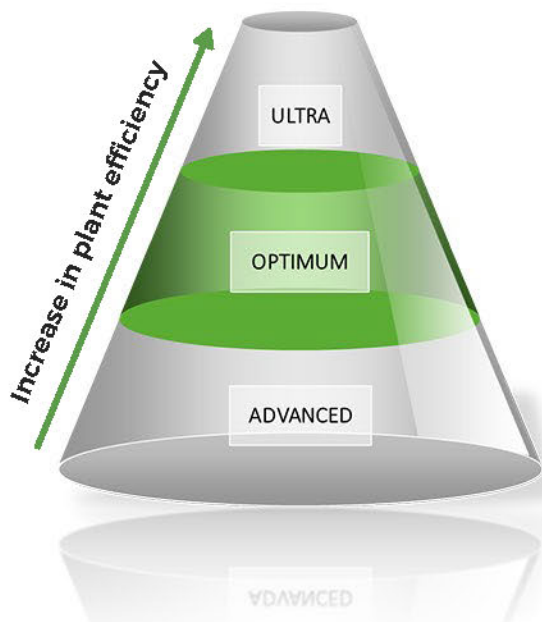
Pronamic® T2 wire is a self-shielded flux-cored wire for welding. The undiluted deposit contains dense and uniform distribution of primary chromium carbides and complex niobium, molybdenum, tungsten and vanadium carbides. The surface appearance is typical for this type of hardface, with a family of stress-relief cracks ("check cracks").

NEW WIRES

New highly specialised wires are being tested and developed together with Loesche for longer service life factors and for specific demanding applications.

LOESCHE + PRONAMIC® ADVANTAGE

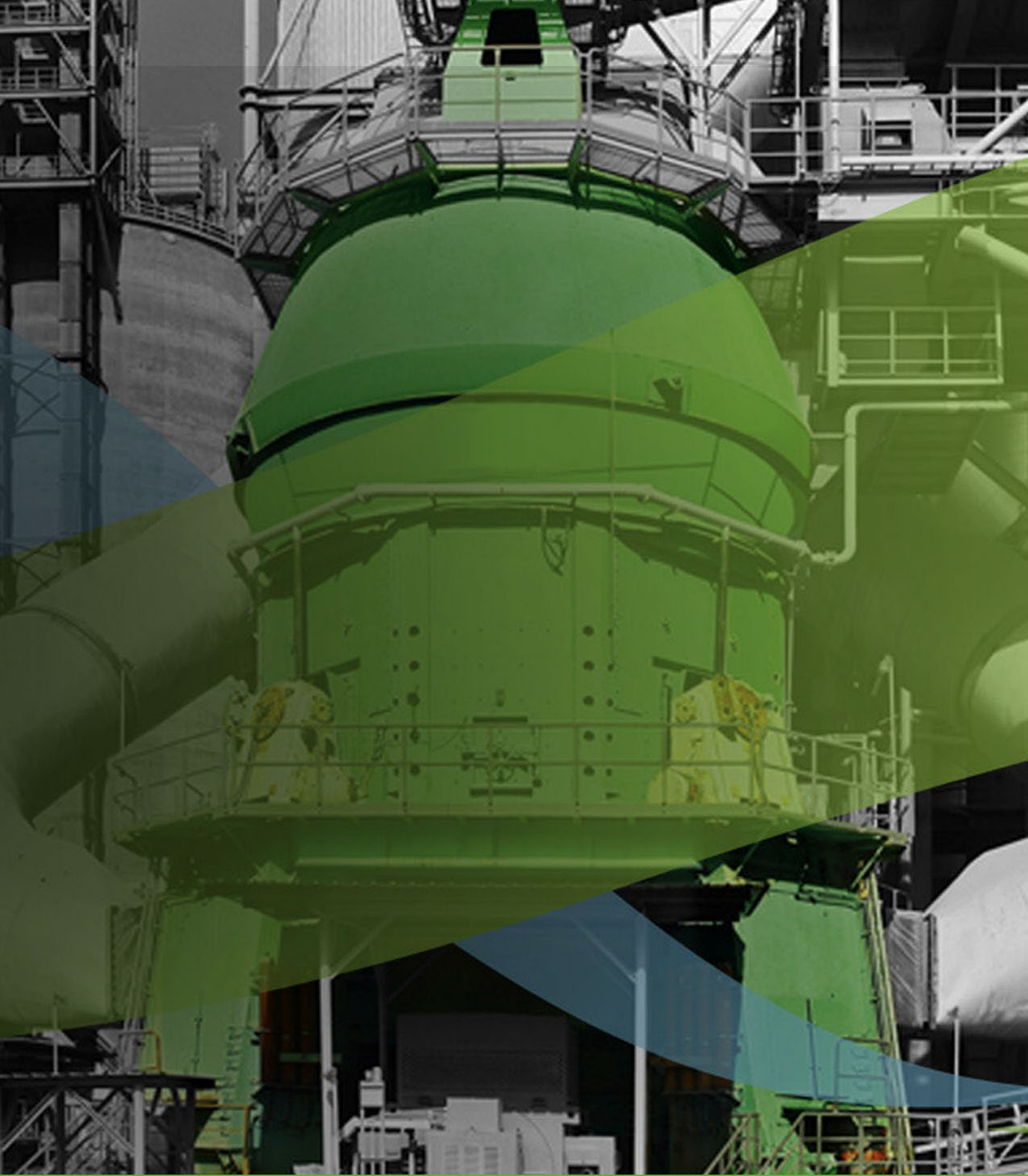
OEM SERVICE LEVELS FOR HIGHEST PLANT EFFICIENCY



- Service outsourcing
 - Availability of Pronamic® and other spare parts
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- Performance improvements: Loesche Process Audit and Loesche Mill Audit
 - Correct geometry and mechanical soundness for optimum performance
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- Pronamic® parts
 - Pronamic® services
 - Wear profile control
 - Loesche reporting with recommendations

OUR SERVICE LOCATIONS





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