ProAS highly representative Metal sampling system.

The MINKON ProAS sampling system has been developed by our engineers to produce extremely reliable and representatives sample quality. It has proved an invaluable tool for all Steelmakers requiring clean and highly representative samples.

The initial argon purge removes contamination from the sample fill area (slag, capping material, insulation powder etc.), before a vacuum is applied to allow the sample to fill with clean molten metal.

MINKON ProAS System

switch

app. 4 sec.

Argon Stirring

Sucking

Revolutionary Technology System

The MINKON ProAS system together with specifically designed Suction or Immersion sample probes provides more clean, representative and homogeneous samples in comparison to standard sampler applications. The higher sample quality allows the steel producer to stay closer to specifications, allowing production of steel qualities unattainable using standard sampling methods with analysis variation caused by contamination and dilution.

The ProAS's automatic control system minimises the potential for operator error and improves sample yield reducing need for resampling. The resultant sample grinding depth can often be decreased from 1 mm to 0,3 mm significantly reducing preparation time and cost.

A further benefit of the system is it's ability to achieve samples where the metal is close to liquidus temperature as the fill entry is preheated during the stirring phase reducing the risk of the fill pin freezing before the sample chamber is full.