

INDUSTRIAL WATER

HBIS HanDan Steelworks — Crystallizer Cooling

Handan, Hebei, China · FW350HP

Overview

At HBIS Group's new HanDan steelworks, mould crystallizer cooling water had to stay clean — any interruption stops the caster. A single FW350HP high-pressure filter now protects the line at 900 m³/h.



The Results

900 m³/h

Continuous filtered supply to the caster

300 µm

Filtration at 13 bar system pressure

Zero

Interruption to cooling water during backwash

316SS

Construction for a steel mill environment

The Challenge

HBIS Group is China's largest steelmaking group, and its HanDan subsidiary commissioned a new plant at the Jingxing site in 2022.

On a continuous casting machine, the crystallizer (mould) cooling circuit is the most critical water service in the plant. If cooling water carrying scale or solids reaches the mould, the casting line stops — and an unplanned caster stop is one of the most expensive failures a steelworks can have.

The new plant needed filtration that could hold 300 micron at 900 m³/h and 13 bar system pressure, continuously, without ever interrupting supply.

The Solution

A Filtaworx FW350HP High Pressure Automatic Self-Cleaning Screen Filter, installed on the crystallizer cooling water supply.

The filter is rated for 13 bar working pressure, with a 300 micron fine screen and electric controls backwashing on differential pressure and time. Construction is 316 stainless steel with a stainless cover lid. Backwash runs without interrupting flow, so the caster keeps its cooling water through every cleaning cycle.

THE FILTER IN THIS INSTALLATION

Filtaworx FW350

DN 350 • Hydraulic drive

filtaworx.com/products/automatic-filters/fw350



On Site



TALK TO US

Have an application like this one?

Send us your flow rate, line pressure and what needs filtering out.
We'll size it — and say so if we're not the right fit.

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