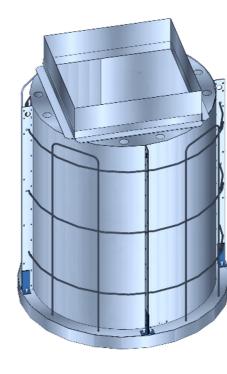


"We independently develop technologies that can innovate construction sites."







Retains full performance as the original steel sump at 70% of the cost.



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The steel sump collects and drains rainwater or wastewater, offering enhanced construction efficiency and structural stability compared to traditional concrete sumps

2025

Cost-effectiveness secured

Produced at approximately 70% of the cost compared to conventional products

Manufactured using eco-friendly methods

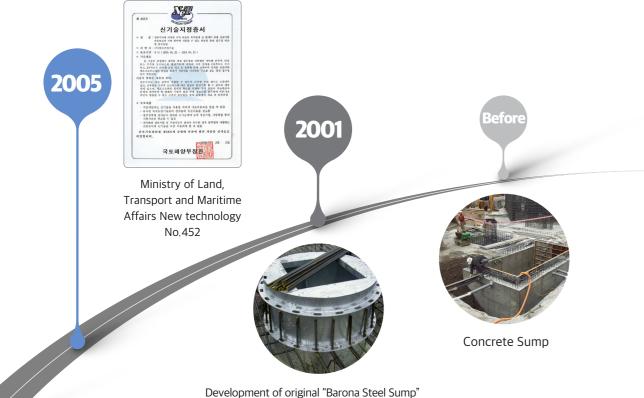
Excludes plastics and hot-dip galvanizing

Structural stability enhancement

Reinforced with vertical ribs and rebar placement

[4 Types by Size]

A type: 1m' / B type: 1.73m' / C type: 3.38 m' / F type: 8m'



"After launching in Korea, more than 2,500 units

have been applied over the past 20 years."

Concrete Sump vs Smart Steel Sump

- In rocky ground conditions, excavation is difficult and groundwater inflow degrades concrete quality
- Excessive rebar placement and excavation make construction complex, leading to labor and schedule losses



Excavation is difficult in hard rock ground conditions



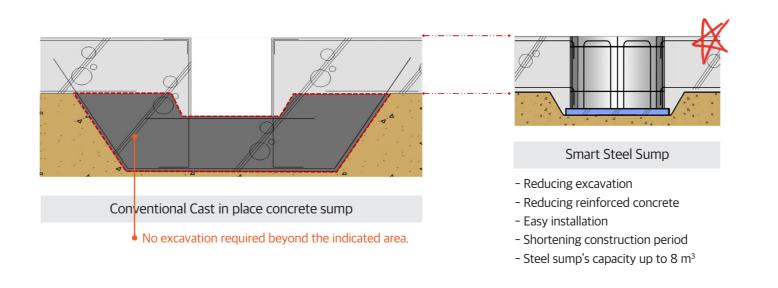
Groundwater inflow degrades concrete quality



High rebar density increases construction difficulty

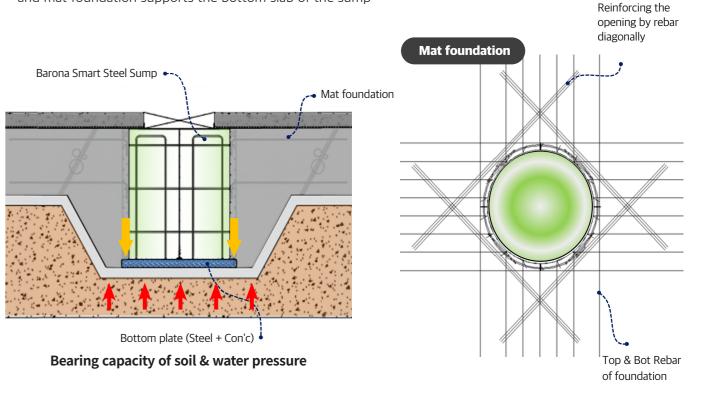


Difficult to install drainage pipes and high risk of pipe damage



Structure and Principle of Smart Steel Sump

- Moment loads and shear loads are carried by the mat foundation.
- Opening around sump is reinforced with rebars.
- The bearing capacity of soil and water pressure are supported by the bottom plate of the sump, and mat foundation supports the bottom slab of the sump



Installation Process

