

APPLICATION: Decarbonizing Systems

Application: Liquid/Solid
Steel decarbonizing

In metal production industry, decarbonising systems are always highly loaded with particles.

Water spray nozzles must be protected with upstream filtration.

A static centrifugal separator (i.e. without moving part) is installed to hold scale discharged by periodic drain.

With regard to the high quantity of suspended solids our units are usually fitted with purge processing allowing scale concentration into a easily removable drum.

Particles are discharged from the cyclone separator unit (small vertical unit on right side drawing)..

The automatic valve drains off periodically the cyclone unit; scale particles and water flow to the 200 L drum. When the water level rises, excess water is discharged by overflow.

At each discharge a water volume equivalent to the volume of collected particles is discharged by the overflow.

When the operation is completed the drum is full of solids with minimum residual water. It is removed and changed with a new empty one.

Fiche 02_02 "vertical hydrocyclones"

Fiche 02_03 "horizontal hydrocyclones"

Fiche 02_04 "drains"

