

CECO Busch



PM 10, PM 2.5, AND CONDENSABLE PARTICULATE CONTROL

BUSCH PPS

MIST ELIMINATION FOR ROLLING MILLS

HIGH EFFICIENCY | EASY ACCESS | LOW MAINTENANCE



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BUSCH PPS | CONTROL OF FINE LIQUID PARTICULATE

The **Busch PPS** (Progressive Purification System) was developed specifically to meet the increasingly stringent environmental requirements for control of small micron size filterable and condensable particulate for metal rolling operations. The quantity and size of liquid mist generated from rolling mills are a function of many variables, including coolant type, coolant usage, metal temperature, strip speeds and saturation point. Rolling mills have several mist generation mechanisms, which cause the size and character of liquid particulate to vary greatly.

The **PPS** design uses multiple elimination stages specific to each application in order to perform as a low maintenance, low pressure drop device while achieving environmental requirements. It employs both cleanable and disposable media

The **PPS** eliminator mechanically removes and drains liquid particulate using several mechanisms. Mists are removed by inertial impaction, direct interception, and to a lesser extent, Brownian capture, depending on the droplet diameter and liquid density.

MIST ELIMINATOR FOR ROLLING MILLS



DESIGN AND CONSTRUCTION

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The **Busch PPS** Unit is custom designed to suit each system requirement. Capacity, unit arrangement, dimensions, number of eliminator stages, location and size of duct connections, and material of construction can be varied to assure proper installation and operation.

Construction of the **PPS** Unit includes a heavy structural base, sloped steel floor plate with multiple drain ports, reinforced housing, and easy access maintenance doors. Critical welds are kerosene and chalk tested.

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