

Grate Bars

Ash Extractor Chains for Pulverized Coal Combustion -for Waste-to-Energy (WTE), Sinter & Pellet Plants

AcmeCast is a stainless steel and high alloy foundry with CNC machining facility. With growing need to lowering CO_x and NO_x emission levels and reducing garbage landfills, there has been growing trend across the world for producing energy from waste. Steam and power generated from boilers and turbines is continuously supplied to heating systems of households and industrial use while power generated is transferred to the utility grid to meet the needs of domestic and industrial customers.

Today, there are many companies who are installing and operating turnkey waste to energy plants using different types of fuels (wood, biomass, garbage) and calorific value available waste.

We can offer grate bars used in boiler combustion area where segregated waste collected from municipalities is combusted. Elevated temperature of combustion requires high chrome and nickel alloyed heat resistant alloys to withstand corrosion due to continuous temperature exposure in range 700-1100°C from usually 24 x7 operated plants. Different designs of firing systems use combustion grates-stationary, roller, reciprocating, moving and travelling grate systems. In addition, fluidized bed nozzles and ash extraction chains are also used.

High chrome alloys conforming to ASTM A 297 Grade HA, HD, HE, HH, HF, HT, HK and modified alloys. DIN 17465 – 1.4777, 1.4547, 1.4832, 1.4776, 1.4743, 1.4826, 1.4859 and custom-made alloys.

