



# Detroit Stoker Company - GTS Energy



**Providing cost effective solid fuel energy solutions for our customers while responsibly supporting the evolving market for cleaner sustainable energy.**



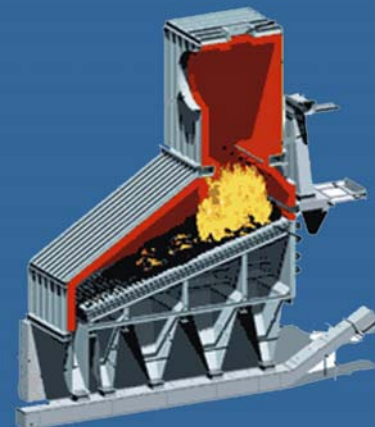
With over 100 years of experience, Detroit Stoker Company is a leading supplier of combustion equipment for the production of steam used in heating, industrial processing, and electric power generation around the world. In addition to providing dependable power, Detroit has taken a leadership role in the development of environmentally responsible systems that make power-generating plants good neighbors in their communities.

Detroit has also led the way in unlocking the value of renewable energy sources. Recycling and reduction of industrial and municipal solid waste as renewable fuels are both cost-effective and environmentally friendly. Every day, more than 135,000 tons of biomass and refuse are converted to useful energy with Detroit systems, the largest of which produces more than 100 MWe.

Detroit combustion systems around the world generate power from such diverse waste products as bark, sugar cane, sawdust, sunflower hulls, and poultry litter. These otherwise non-recyclable materials produce insignificant levels of emissions compared to the fossil fuels they replace and are considered CO<sub>2</sub>-neutral because the carbon dioxide is used during the growth cycle and then is released during the combustion process. Also as the cost of conventional fuels rise, renewable fuels provide a sensible alternative.

In continuing to help our clients solve their most difficult issues, Detroit Stoker Company is now the Original Equipment Manufacturer of the GTS Energy Reciprocating Grate Combustion System technology. GTS Energy Reciprocating Grate technology has proven for many years to be one of the most effective systems for the combustion of wood waste materials in the Wood Products Industries. Many of the world's leading MDF, OSB and particleboard plants utilize GTS Reciprocating Grates. The GTS acquisition enhances Detroit's product line and its' position in the development and supply of small biomass combustion and gasification systems.

Biomass fired heating systems including dryers, dry kilns, thermal oil heaters, gasifiers and steam boilers provide a constant, efficient and reliable source of thermal energy for various industrial processes.



*"Our opportunities are always growing"*

Solid Fuel-Burning Systems • Gas/Oil Burners • Aftermarket Products and Services • Special Engineered Products

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DSC/GTS inclined reciprocating grates push the fuel down the length of the grate area through distinct drying, gasification, combustion and burn-out zones. The grates are high alloy material and therefore air cooling is sufficient. The grates require no water cooling pumps which eliminate the problems associated with emergency circulation systems. After the fuel completes combustion, the ash is automatically discharged off the end of the grate into an ash conveying system.

Features of the DSC/GTS Reciprocating Grate:

- Handles wide range of feed materials including low heat value, high moisture.
- Can handle bulky and irregularly sized wastes.
- Conservative sizing for assured capacity and low emissions.
- Heavy-duty design for long life and reliable operation.
- High Alloy air-cooled grate bars for long grate bar life.
- Completely automatic ash removal by reciprocating action of grates.
- Multiple Zones of primary/undergrate air for optimum temperature distribution, maximum ash burnout, and low emissions.
- Low CO and VOC emissions through the use of high velocity secondary air injection and flue gas re-circulation for turbulence and good mixing.
- Low NOx emissions using flue gas recirculation.



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