

# Materials Division

## Centrifugal cast radiant tube MERT : Mixing Element Radiant Tube

Ethylene or propylene, main raw materials of petrochemical products, are produced by pyrolysis of hydrocarbon such as naphtha and ethane in cracking tubes heated at high temperature.

MERT (cracking tubes for ethylene and propylene producing plants), introduced in environmental report 1999, was adopted in forty eight pyrolysis furnaces inside and outside Japan. (seventeen furnaces in Japan and thirty one furnaces in foreign countries as of June 2001)

Manufacturing plants which adopted MERT realized

- ① approximately 4 % reduction of fuel consumption and
- ② energy saving and environmental load reduction such as reducing of fuel consumption and carbon dioxide emission regarding maintenance by half and so on.

MERT is highly estimated in petrochemical industry, much energy consumption industry.



## Ductile frame

Ductile frame is used as pressure receiving plate for Ground anchorage in order to stabilize surface of slope and to prevent landslide.

Light-weighted ductile frame, made of spheroidal graphite cast iron, was developed to meet greening in shape, using our casting technologies.

Greening on the surface of slopes is being promoted for global warming measures in many districts recently.

Ductile frame is environment-friendly product with disasters prevention and greening, uniting with nature.

What is more, spheroidal graphite cast iron is recycle-oriented material, which is recyclable perfectly, with minimum environmental load.

