

**WASTE-TO-ENERGY**

# **ASH REMOVAL AND PURIFICATION SYSTEMS**



Mitsubishi Power is a power solutions brand  
of Mitsubishi Heavy Industries.

**Mitsubishi Power Europe GmbH**

# OUR SLAG REMOVAL / ASH HANDLING SYSTEMS MAKE THE DIFFERENCE

Slag removal and ash handling systems of various types have been part of Mitsubishi Power's production and scope of supply for many decades. This applies both to the removal of slag from the grate firing system and to ash transport from all other ash accumulation points within the thermal waste utilization plant.

## SCOPE OF DELIVERY

- Ram deslagger
- Wet deslagger apron feeder
- Trough chain conveyor
- Single strand chain conveyor
- Screw conveyors
- Lump crushers
- Scraper conveyors
- Vibrating feeders
- Rotary valves
- Single and double pendulum dampers
- Gate valves
- Nozzle conveyors
- Belt conveyors

## ADVANTAGES

- Robust design
- Efficient power transmission
- Maintenance friendly design
- Safe ash discharge
- Cooled and dry ash (15-20% residual moisture)
- Adaptability to downstream aggregates
- No water treatment for overflow water
- High efficiency
- Low conveying speed
- High availability
- Low water consumption
- High operational reliability
- Long service life of wear parts
- Low operating and maintenance costs
- Particularly suitable for the transport of bulky and large-sized materials

### RAM DESLAGGER FOR GRATE SLAG



#### Robust, efficient and low-maintenance

The deslagger consists of a solid sheet steel housing with an internal drive shaft and a discharge ram. The drive shaft is driven by external hydraulic cylinders. A large force application to the ram is achieved by the large external and internal lever arms.

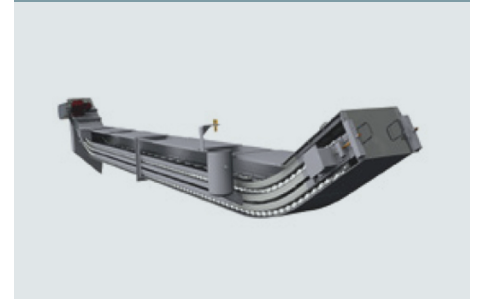
### APRON FEEDER FOR GRATE SLAG



#### Stable and durable in any situation

The trough of the wet deslagger apron feeder consists of a solid steel plate construction with stiffening irons. The apron feeder consists of a double strand forked link chain with welded towing arms and the bolted apron feeder elements.

### TROUGH CHAIN CONVEYOR FOR GRATE DROP-THROUGH ASH



#### Reliable under extreme conditions

The trough chain conveyor is designed as a 2-strand chain conveyor. A forged fork link chain with towing arm is used as the conveyor chain. The main trough is horizontal and the drive segment and the return segment are each arranged in a sloping position so that the drive and return shafts with their respective shaft bearings are located above the water level.