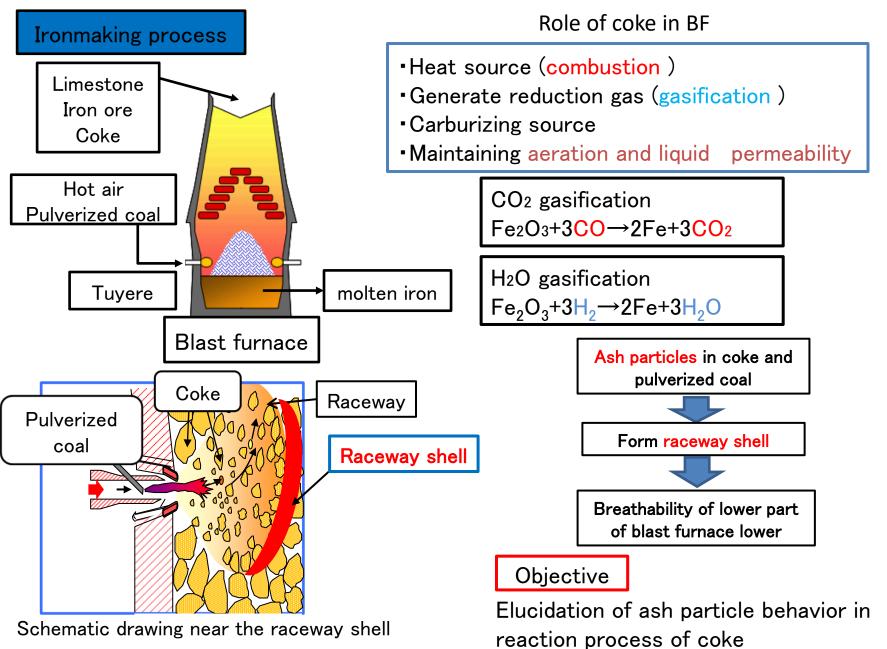
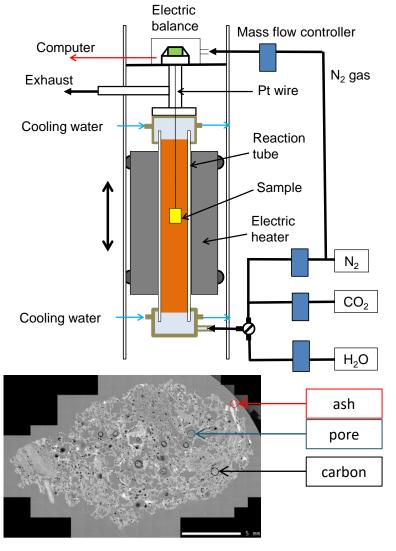
## Ash particle behavior in reaction process of coke



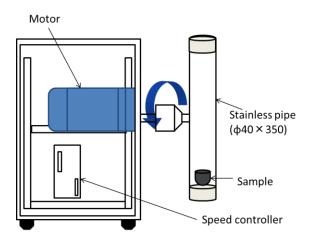
## Ash particle behavior in reaction process of coke



SEM image of raw sample

## **SEM** cross-section analysis

- Trivalentization of cross-sectional image
- Area analysis of ash particle, carbon, and pore



Type I tumbler tester

- Take out the sample from the pipe every 5 minutes and sort it into coke lumps (> 1 mm) and powder (≤1 mm) with the 1 mm sieve
- Weigh coke lumps and powder
- Return the sample to the pipe and rotate again
- Test time: 25 minutes (5 times)

## Research content

- H2O or CO2 gasification experiments with single coke particles
- Cross-sectional observation and image analysis of gasification interrupted sample by SEM
- Coke strength test by type I tumbler tester