

Penanganan Bahan Padat

S1 Teknik Kimia FT UNS

1. Pendahuluan:

Beberapa Proses Industri Kimia dengan bahan padat.

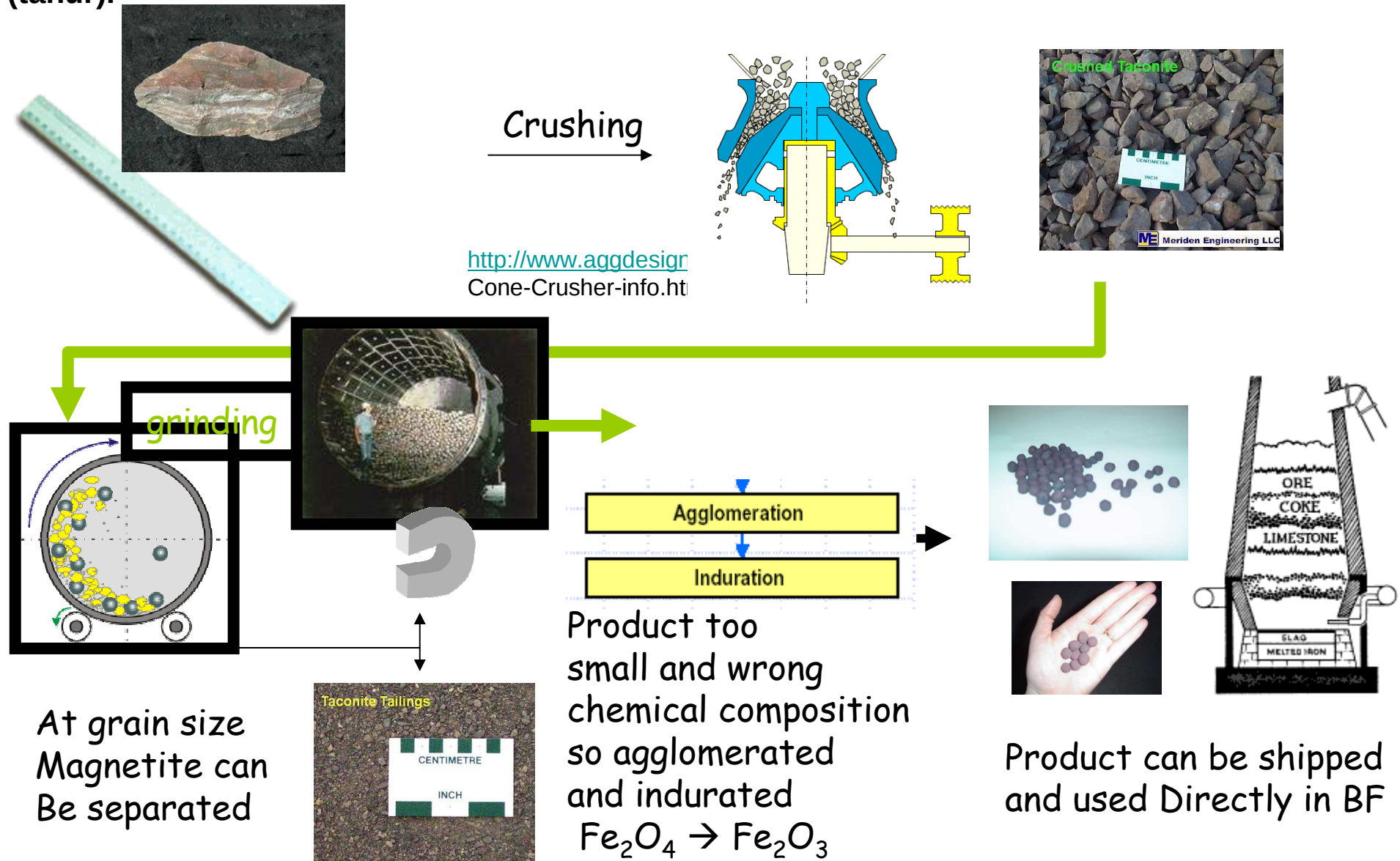
Sperisa Distantina

Steel Industry

Bijih Taconite : LOW grade mixture of Silica and Magnetite Fe_2O_4 .

Hematite Ore Fe_2O_3 = bahan baku baja.

Dibutuhkan proses pengolahan biji Taconite menjadi hematite sebagai umpan blast furnace (tanur).

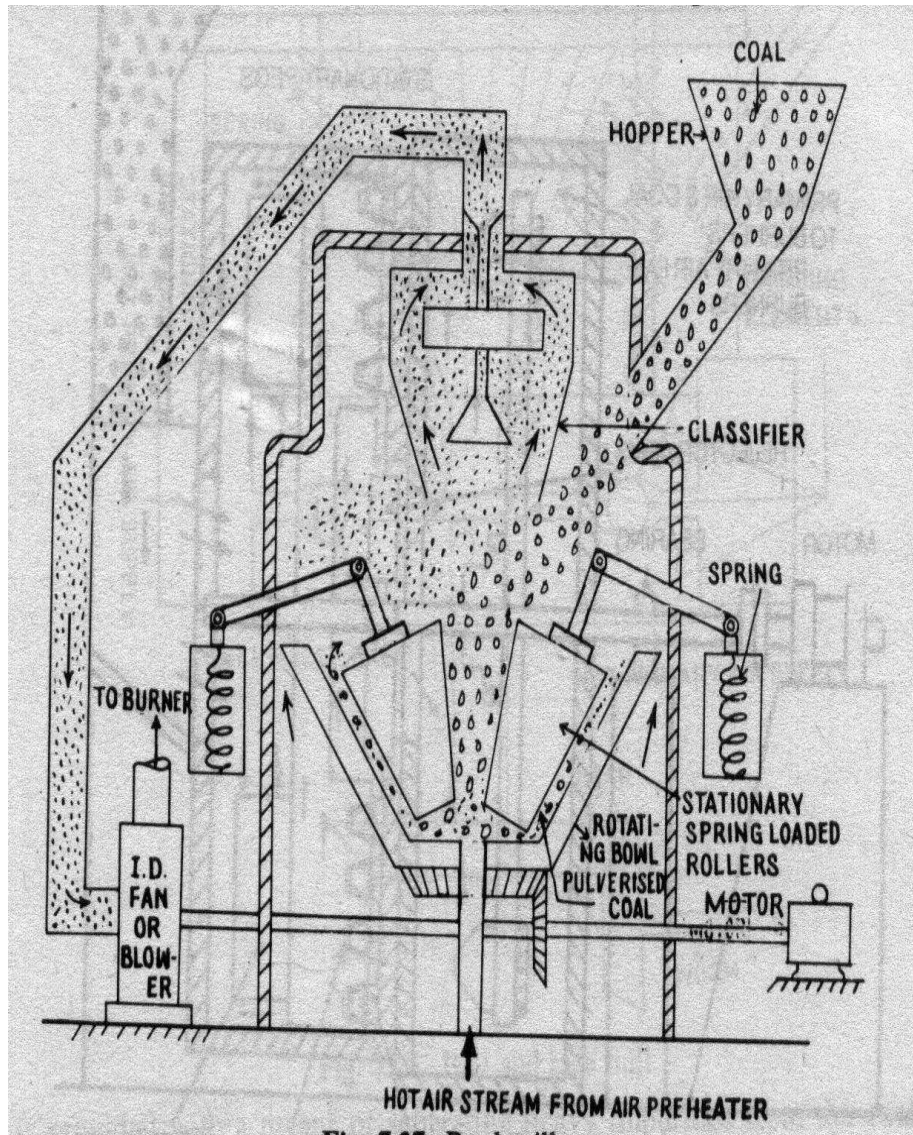


Penyiapan batubara dr >10 mm menjadi ukuran bahan bakar.

Coal 10 to 25 mm Size



particle size of 70% < 75 μm
and 1 % > 300 μm and with a
moisture in coal of less than
10%.



Bowl mill

Coal Inlet

To Burners

roller

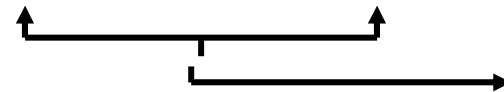
Hot Air
~ 250°C

Bowl

DIAGRAM ALIR PENAMBANGAN BATU KAPUR

DRILLING - BLASTING

RIPPING - DOZING



LOADING



HAULING



UNLOADING



LOADING



CRUSHING



Cement plant

