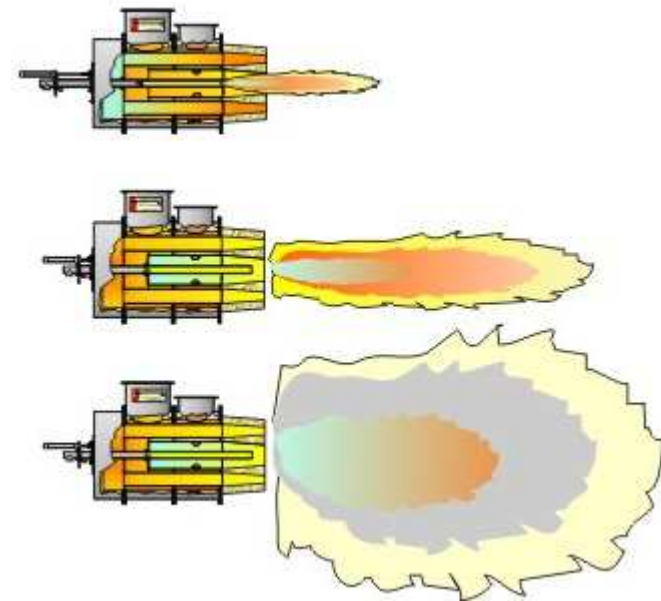

AT02d

Thermal post-combustion

Gas as a „waste product“ of a process (e.g. painting in a metal treatment process)

- ✓ Collected from all processes
- ✓ Used as fuel in a thermal post combustion purely or mixed with natural gas



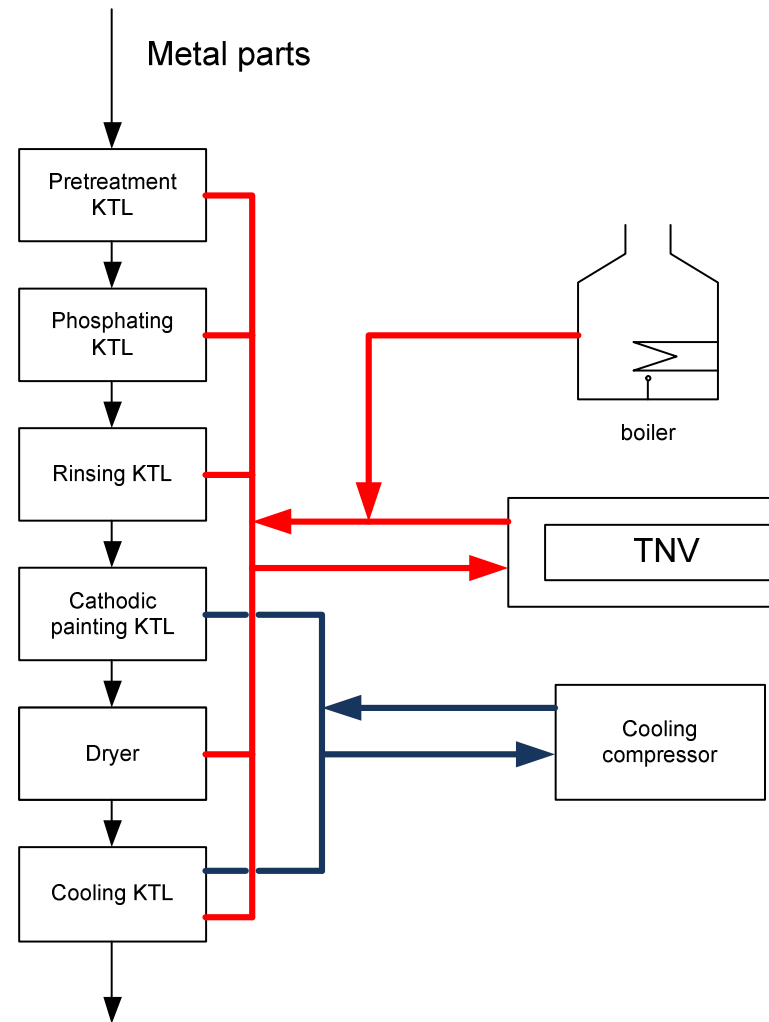
Source: www.jasper-gmbh.de/english/burner_systems.htm

Definition of a fuel in the database named e.g. TNV gas

- ✓ Main physical properties comparable to natural gas in most cases
- ✓ Be aware of environmental parameters
- ✓ Use of the gas as fuel with defined costs of 0 €/MWh

Definition of a burner for generation of heat supplied by the collected gas

Example based on TD2



Example based on TD2

- ✓ Check database for defined fuel TNV with same properties as natural gas and define the consumption with no costs for the gas
- ✓ Define a TNV burner supplied with TNV gas and a nominal power of 900 kW
- ✓ Define a gas boiler (hot water boiler) supplied with natural gas
- ✓ Natural gas consumption of 105 MWh known but not splitted to gas boiler and TNV → adapt nominal power of gas boiler
- ✓ TNV consumption of 3,800 MWh known
- ✓ Gas boiler supplies only hot water distribution line, TNV burner both lines