

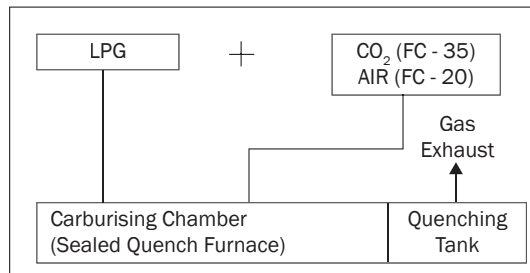
Fine Carburising® (FC)

The three gas carburising processes used currently are

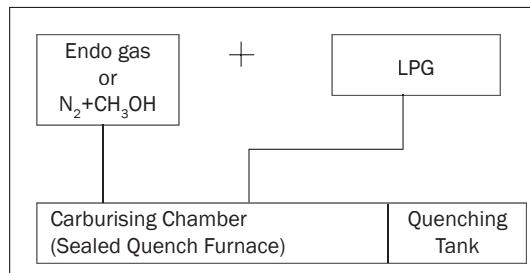
1. Carbo Drip with Fluid
2. Endo gas
3. Nitrogen Methanol

NEWEST CARBURISING PROCESS

Fine Carburising Method



Conventional Method



Characteristics of FC Process

- Reduction of gas consumption resulting in reduction of running cost
- Reduction of carburising time in FC - 35
- No atmosphere gas generator required

Advantages of the Fine Carburising method

- For case carburising, fine carburising saves approximately 87% of the carburising gas as compared to the endothermic method
- In terms of carburising time, the fine carburising method (FC - 35) reduced approximately 25% compared to the endothermic method
- Shorter carburising time
- Shorter seasoning time
- Clean environment (less exhaust heat - as endo exhaust volume is 30 times than FC - 35)
- No Endo gas generator required.
- Lower running cost (Gas consumption cost / Heat Energy saving / Saving in reheat of input atmosphere)
- Lower gas consumption (1/30th of Endo gas required)
- Complex profiles are carburised easily. Eg. Gear land and pitch
- Less space required for installation in absence of atmosphere gas generator
- Savings in manpower as skilled supervisors are required for operation of atmosphere gas generators

