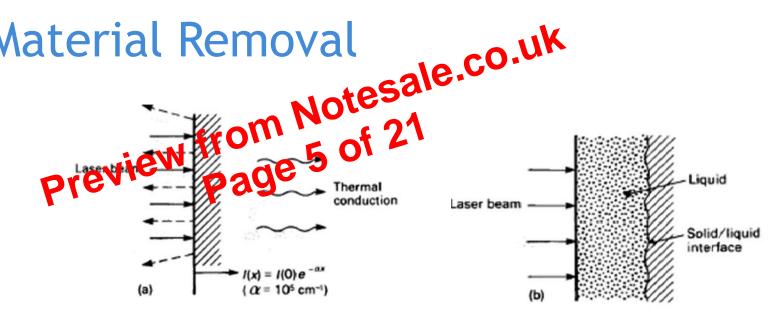
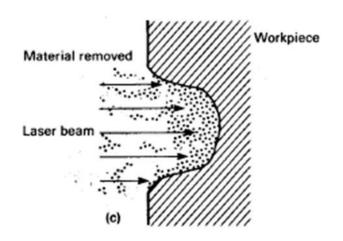
- Introduction from Notesale.co.uk
  Bard Principle Page 2 of 21
  Material Rem

  - Types of lasers used
  - **Parameters**
  - Laser Welding
  - Laser Cladding
  - Laser Cutting of different Materials

## Material Removal

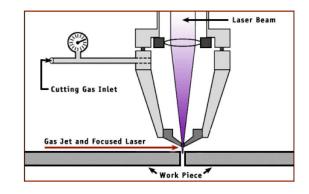




Types of lasers used

outing Metals Page 6 PCO2 CT ramics **APPLICATION** Cutting Drilling **Plastics** Excimer Marking PCO<sub>2</sub>; Nd:YAG Metals **Plastics** Excimer Ceramics Excimer Surface treatment (metals) CWCO<sub>2</sub> PCO<sub>2</sub>; CWCO<sub>2</sub>; Nd:YAG; Nd:glass; ruby Welding (metals)

*Note:* P = pulsed, CW = continuous wave.



- Gas is blown into the cut to clear away molten metals, or other materials in the cutting zone.
- In some cases, the gas jet can be chosen to react chemically with the work piece to produce heat and accelerate the cutting speed.