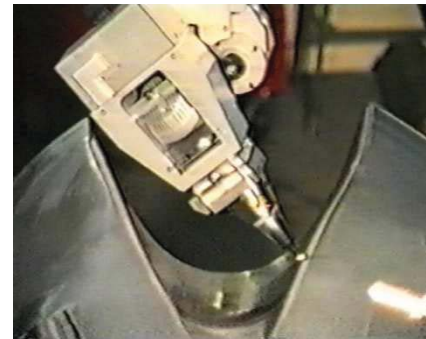




PRIMA Solutions for Aerospace



Laser Drilling





Engines: Combustion Chambers



PROCESS:

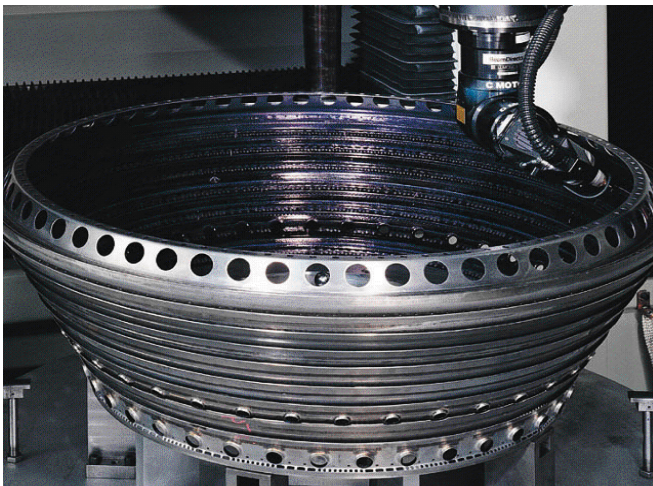
- Percussion Drilling, Trepan Drilling and cutting
- 10 – 100,000 holes for film cooling
- Cooling hole diameters from 0.3 – 1.2 mm
- Entrance angles from 45°–15° to the surface

MATERIAL:

1 – 3 mm thick Cobalt and Nickel based super alloy (Haynes, Hastelloy, Inconel, etc.) with thermal barrier coatings (TBC) on some parts

MACHINE:

LASERDYNE 795





Engines: Heat Shields



PROCESS:

- Percussion drilling + shaped holes
- 100,000 holes for film cooling
- Cooling hole diameters from 0.3 – 1.5 mm
- Entrance angles from 15°–90° to the surface

MATERIAL:

1 – 3 mm thick Cobalt and Nickel based super alloy (Haynes, Hastelloy, Inconel, etc.) with thermal barrier coatings (TBC) on some parts

MACHINE:

LASERDYNE 795





Fuel Cells



PROCESS:

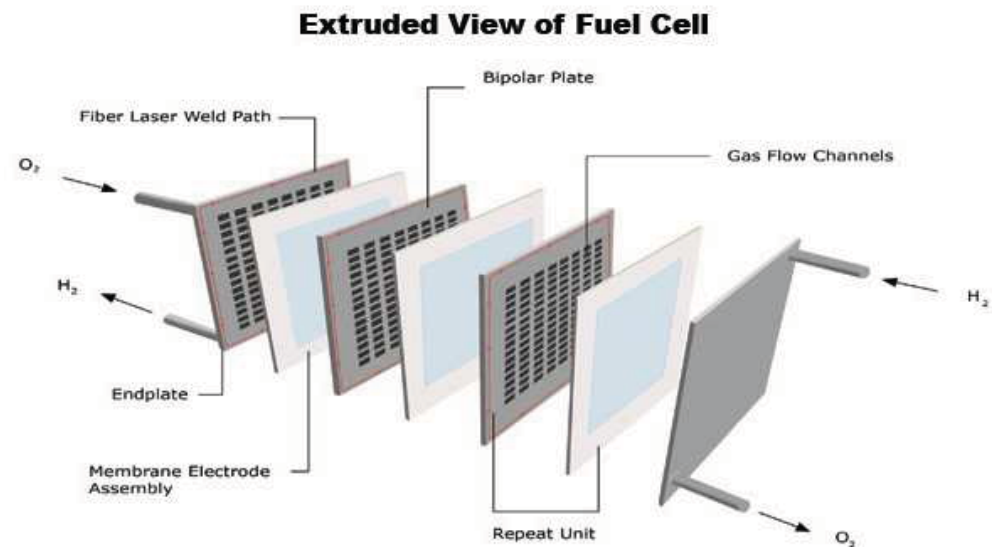
- Hydrogen Fuel Cell Welding, Drilling and Cutting
- Profile cutting of thin steel plates with no dross
- High speed drilling of 0.020 mm dia holes on thin steel plates
- Zero or low distortion stake welding (400 m ! For an eco car) of thin steel

MATERIAL:

0.2 to 0.5 mm, steel plates

MACHINE:

LASERDYNE





Engines: Sound Abatement



PROCESS: Cutting and drilling of sound abatement covers

MACHINE: OPTIMO/RAPIDO





Engines: Blades and Vanes



PROCESS:

- Percussion drilling & trepan drilling + shaped holes
- 150-500 holes for film cooling
- Cooling hole diameters from 0.3 – 1.2 mm
- Entrance angles from 45°–90° to the surface

MATERIAL:

1 – 3 mm thick Cobalt and Nickel based super alloy (Haynes, Hastelloy, Inconel, etc.) with thermal barrier coatings (TBC) on some parts

MACHINE:

LASERDYNE 450

