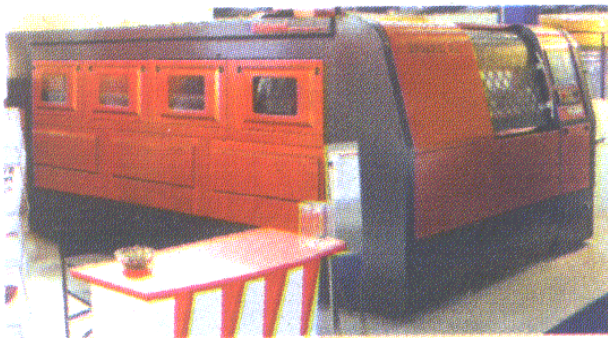


## Fibre laser cutting system

Sahajanand Laser Technology offers fibre laser cutting system - model Brahmastra F1: 3015 for precision sheet metal fabrication. This system with linear drives is powered with F3 Technology, which is the first system in the world that has been commercially successful. This



laser source is of Ytterbium fibre lasers operating at the 1070 nm wavelength are perfect for laser cutting. Apart from laser, world class CNC controller Siemens 840 D is used. The fastest XYZ movement technology - linear motors - offers positioning speed more than 150 m/min and faster cutting speed compared to other conventional system and accuracy is 10 microns. Fibre

laser system is more than two times faster than the CO2 laser system. 1 kW fibre system can able to perform 2kW CO2 laser in terms of higher cutting. Smaller spot size leads to small kerf width and less heat affected zone (HAZ). Operating cost is at least three times less than CO2 laser. In future, if one needs to upgrade the laser system from small power to high power, the fibre laser can be easily upgraded. The warm-up time is within few minutes. The foot print of fibre laser system is three times less than CO2 laser system. There is no maintenance cost for laser as it is solid state laser and no laser gas or turbo flow compressor required, the consumable is very less.

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