



## ONE BUTTON INTELLIGENCE

Is man power attrition affecting your fabrication output?

Is your fabrication shop hampered by your dependence on skilled labour?

Is cumbersome material handling problems creating a logistical nightmare with your production and delivery schedules?

Does your job have to be subjected to labour intensive, time consuming processes such as grinding, drilling, manual marking and fit-up?



Please visit our website for live demonstration

### THE OPTIMUM SOLUTION IS AN INTELLIGENT MACHINE

Programmed to assimilate shop floor and-'**Domain Knowledge**' and labour skills. RoboPlazma<sup>™</sup> is an audacious integration of Robot-customized software and Plazma cutting. **The first of its kind world-wide will place your company on the global map as an equal player with an unequaled edged advantage.**

**RoboSwift** enables error-free production with direct '**Design to shop floor**' programming. This customized software has all Plazma's cutting process knowledge fed into it. All the operator has to do is focus on production cycle times.

**Multiple operations** such as cutting, drilling, marking, beveling in one set-up. This increases throughput in a reduced factory space-directly transforming your bottom-line.

**Coherent Plazma Torches** (patented internationally) delivers 'Knife Edged Cutting' requiring negligible, post-cut cleanup.

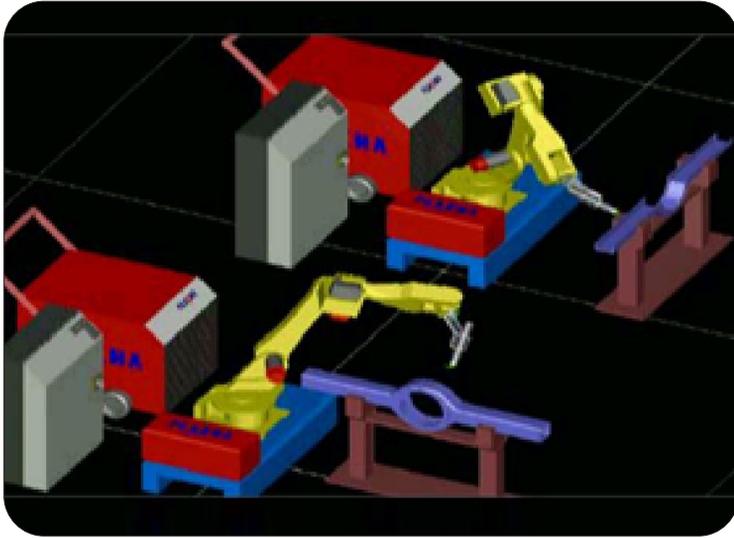
**Laser-like sheet metal cutting:** Coherent Plazma with robotic controls is revolutionary. It delivers a precise quantum of plasma energy to cut sheet. This eliminates heating and micro-structural distortion.

**Inherent sensing intelligence enables auto job alignment, 3D Arc voltage sensing** for cutting and beveling.

**Robotic material handling:** Every stage from raw material storage to stacked, finished components is RoboPlazma<sup>™</sup> driven and interfaced.

**Fab Flexibility:** This system can process plate, pipe, channel, I-beam, dishend, shell and formed components. This enables pre-weld and post-assembly automation.

'Virtual Reality Plasma' will mimic a 'Customer Specific' or highly specialized setup with an exact 3D work cell. Every single through put factor can be digitally recreated. This 3D environment can also program the robot to cut complex 3D geometries.....



**PRODUCTIVITY AT CIMOTEC HYDRO MACHINES (P) LTD.**

Engages in medium/heavy fabrication for:  
 Otis Elevator Company India (Ltd.)  
 Ingersoll Rand (India Ltd.)  
 Trackteck International  
 Tetra Truck (India Ltd.)  
 Westfalia Seperator India Ltd and many other corporate giants...

**CIMOTEC** was using skilled labour to produce quality products with the help of Weld fixtures, templates, drill jigs etc. The existing infrastructure of conventional machinery like oxy acetylene cutting by use of templates, hydraulic shearing machine 12mm x 3mtr, hydraulic press brake 250tons x 4 mtr, mig welding machines, a moving column milling and boring machine (to envelope a volume of 6mtr x 1mtr x 1.6mtr) needed to be upgraded to CNC Control machines and effective material loading and unloading systems.

**ROBOPLAZMA™ SYSTEM: THE FIRST OF ITS KIND IN THE WORLD**

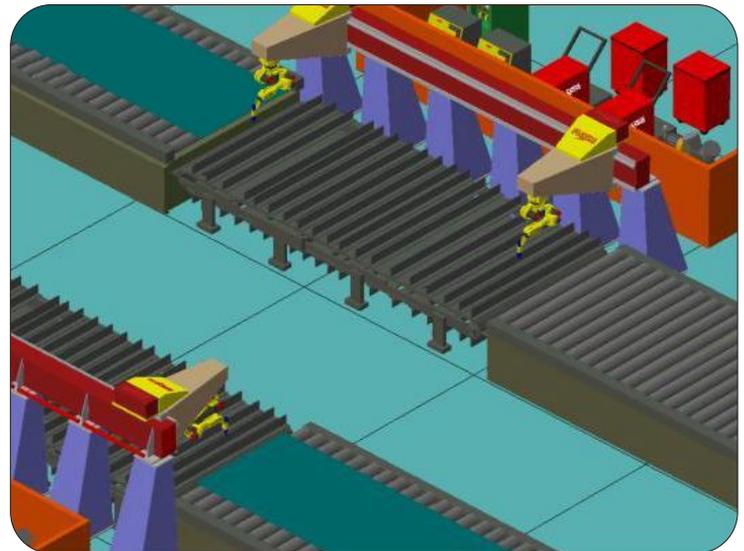
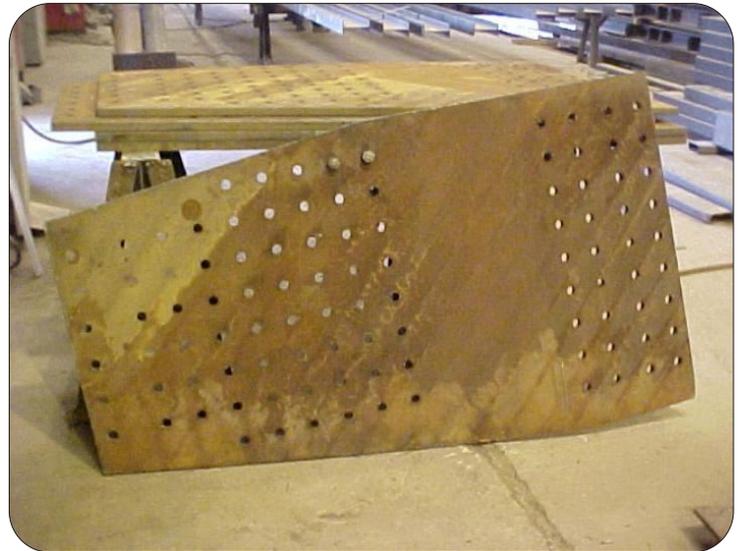
At Cimotec's Bangalore plant, RoboPlazma™ System has been performing a two shift production for the past four years. Cimotec selected a Plasma source for cutting was '**due to the fact that the cutting speeds compared to oxy gas cutting is faster (at least 3 times).**' Laser cutting prices were prohibitive and cutting of material beyond 12 mm thickness with a good edge not economically feasible. Co-ordinate table with either oxy gas/laser is common however it is limited to two axes. We were using templates and manually cutting port holes and openings on hydraulic tank meant for Ingersoll-Rand India and on side walls of channels used for truck chassis meant for Tetra Trucks.

The process previously used was '**very slow**' resulting in low volume of production. Broadly put, we were using 11 persons to make 5 sets of chassis over



Beveling is done on plates most of the time for weld preparation. This was made either by using a hand torch or milling machine. With the hand torch method, the finish had a bad, uneven beveled edge. With the milling machine, we obtained excellent cut edges. But the time taken and cost involved was very high. With the RoboPlazma™, we have been able to achieve a high cut edge finish in shortest possible time. We have recently completed a number of export jobs with quality, in time delivery.

**"Invest in the future is our motto. RoboPlazma™ System is our competitive edge for tough export and Indian fabrication scenario."**  
 The above is an excerpt from an article written by **Mr.K.N.Srinivasan (M.D.)**



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