

Indian Irrigation Industry

Sahajanand Laser Technology Ltd.

About:

SLTL - A pioneer in the field of lasers in India. The company offers pinnacle solutions with a wide range of laser system for diversified industrial applications such as: Cutting, Marking, Welding, Micro Machining, Solar Cell Scribing/ Cutting, Diamond processing and scanning



Challenges on Production Line

Process of pipe making is rapid job and involves a procedure to follow. Marking is just one part of the process, but very important one because visibility of logos, texts and

other marks contributes to perceived quality of the product. Processes can't be stopped without expensive downtime and scrap, and these lines moves at

hundreds of meters per minute.

We understand the significance of superior print quality and achieving your operational goals.

Make Your SMART Move Now

Keeping your line productive & profitable and making your product stands apart. What will you chose: **Traditional Marking** or **Laser Marking**

SLTL Strength

- World's first manufacturer of fiber laser cutting machine
- Largest Indian manufacturer of Laser systems
- World's largest manufacturer of Laser Diamond Processing systems
- Largest profile of laser applications
- Housing state of the art R&D facility



Laser Marking Benefits

Cost Savings from no consumables:

High volume manufacturers can greatly reduce costs with laser marking compared to other methods. The consumable cost for ink or labels will far exceed the initial cost of a Laser

Permanence: When you use laser etching, you have a permanent mark that will stand the test of time. It is chemically resistant to solvents, acids and bases. Also, have the ability to withstand temperatures.

Precision: The sharp finish of laser marking makes it the most precise solution. A laser marking is easy to read, making it far superior to any other method.

Compatibility: Lasers are flexible enough to fit themselves into any production/ packaging line. There will no constrain of space and orientation.



Flexibility: Laser marking works on a variety of materials. It can mark any type of image or fonts and can be programmed real time.

Minimal maintenance: Avoid downtime associated with cleaning a printer or changing a stencil when you utilize laser marking solution.

High Speed: You can achieve very high speed using Laser engraving. It can be customized to match your existing process speed.

Non Contact Process: Laser marking does not have direct contact with the marking surface. Hence, affect physical property of the component.

Advantages at a Glance

Best Markings - On the Fly with excellent Marking Results

Production speeds of the pipe manufacturing lines are extremely high. Our marking lasers keep pace with these speeds while delivering optimum marking results.

World Class Installation Options

Our systems integrate flexibly into both new and existing lines – because of its small size and the available integration options. Especially worth mentioning is our customized fiber laser marking system.

Superior Service

Time and again the service and support that we deliver is always appreciated by our customers.

INDUSTRIAL CASE STUDY



Company – Dolphin Group, Rajkot (Gujarat)

The leading Dolphin Group - famous brand in Indian plastic industry. The Company initiated in the year 1986 and touches the sky of the fame in couple of years. The Dolphin Group Manufactures & Markets a wide range of pipes. The Dolphin Group is a Conglomerate of Many Manufacturing house in India.

Dolphin believes in the rhythm of quality, either a big fish or a company. They maintain their client's happiness by strict quality supervision and high-tech managerial skill.

Following their philosophy to uphold rhythm of quality and high-tech vision. They approached SLTL for the challenges they were facing in their pipe production. We complemented each other's business by providing them our OTF Laser Marking Solution.

Challenges

The process for marking on pipes Dolphin was using has following limitations:

1. Lack contrast and resolution, leaving them difficult to view from a distance and making inappropriate for traceability
2. Labour Cost – Manpower was required for preparing custom solution intended for different requirement of batches
3. Downtime – Changing the solution for every batch requires a reasonable amount of time
4. Wastage – Because of the quality of marking lot of scrap was produced
5. Power – Not able to utilize the full line speed resulting in high power consumption
6. Speed – Difficult to maintain a high line speed because of current marking solution as it does not support the high production speed
7. Not permanent - Often being at risk to removal by solvents and abrasive cleaners
8. Custom stencil that contains the image being marked was making it impossible to run sequential data such as serial numbers etc.

Our Products:

- Laser Cutting System
- Laser Marking System
- Laser Welding System
- Solar Cell Cutting System
- Customised Automation Solution
- Material Handling Solutions
- Press Brake
- Diamond & Jewellery
- RF & Microwave Solutions
- Medical Machineries

www.sahajanandlaser.com



This pipe is laser marked by SLTLs Laser Marking Machine

INDUSTRIAL CASE STUDY



Company – Dolphin Group, Rajkot (Gujarat)



SLTLs OTF Marking Machine setup at Dolphin Production Facility



Solution

Customized Solution for challenges faced by Dolphin and matching their Production requirement



International Presence



Contact Us

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Achieved Line Speed of
200 m/min with
marking 92 characters



Reduction
in Manpower
by 2 Units



Highly
Cost Effective
Solution



Reduced – Daily 1 hour
production downtime



Saved 10% scrap
in final product



Best in Class Precision
and Quality Marking