

# 3D LASER SCANNING PROFESSIONALS



STREAMLINING  
THE DESIGN PROCESS  
INCREASING PRODUCTIVITY  
DOMESTICALLY AND  
INTERNATIONALLY



FOR THE PRESENT AND  
THE FUTURE  
MAKING THE MOST OUT OF YOUR  
POINT CLOUD DATA



PIONEERING INNOVATION  
UTILIZING 3D LASER SCANNING AND  
CONSTRUCTION TECHNOLOGY TO  
ACHIEVE HIGHER RESULTS

## GLOBAL DESIGN SOLUTIONS, INC.

*SIMPLIFYING CONSTRUCTION, ONE SCAN AT A TIME*

Global Design Solutions, Inc. (GDS) is an advanced CAD solutions provider, specializing in 3D laser scanning and the management of **POINT CLOUD** data. GDS focuses on four areas of interest: 3D laser scanning, design, consulting, and **POINT CLOUDS**. Our unique balance of information enables deliverables to be vast in content, systemized, time efficient, and cost effective. With the ability to provide a variety of services, our clients don't have to look further for advanced **POINT CLOUD** solutions.

GDS is your one stop solution for all of your 3D laser scanning and **POINT CLOUD** data.



3D SCANNING | DESIGN | CONSULTING  
**POINT CLOUD**

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## A TOOL THAT RETURNS HIGHER PROFITS

GDS incorporates the latest in 3D laser scanning technology. Our services increase productivity and global coordination. We enable our clients to deliver a higher quality product, limit rework, and increase profits.

GDS helps our clients see a return on their digital asset investment. We surpass our clients greatest expectation in quality and in price.

## RESULTS DRIVEN, PRICING COMPETITIVE

With over 30 years of combined 3D laser scanning and design experience, our mission is to be the leader in 3D laser scanning. GDS will meet or beat the pricing of our competition. We guarantee on time high quality service while using the latest in 3D laser scanning technology.

Your project is our project.





## WHAT IS 3D LASER SCANNING?

The practice of capturing an existing condition in the built or natural environment through the use of 3D laser scanning and **POINT CLOUDS**.

**POINT CLOUD** - A point cloud is a set of data points in some coordinate system. In a three-dimensional coordinate system, these points are usually defined by X, Y, and Z coordinates, and are intended to represent the external surface of an object. Each pixel of the **POINT CLOUD** is measurable by an accuracy of three millimeters or less.

**POINT CLOUD** data from other service providers are typically given to the client in an "as is" deliverable. GDS's **POINT CLOUD** data are meticulously collected and pieced together from field to end user point of views.

## GLOBAL DESIGN SOLUTIONS, INC. SERVICES

### 3D LASER SCANNING

Our 3D laser scanning services increases efficiency by providing a faster turnaround on projects and reduces labor costs while adding value to our clients' deliverables. A five day project with conventional work can be done in just two days utilizing our **POINT CLOUD** data. Time and money are saved by limiting continuous site visits because the information required is right at your computer.

Each GDS 3D scanning team is equipped with the Z+F 5010C 3D laser scanner complimented with a DPI-7 hand held scanner to reach hard to see scan areas. GDS utilizes robotic total stations to tie into coordinate systems

### DESIGN

Designing with GDS gets the job done right the first time. With our unique blend of 3D laser scanning and design expertise, we are able to achieve higher quality results in a shorter period of time. We utilize 3D laser scanning to accurately determine tie-ins into existing structures, civil conditions, and piping as-builts.

GDS is capable of utilizing AutoCAD, PDMS, and CADWorx within various design disciplines to suit the needs of our clients. We can model in all of our clients' **POINT CLOUD** tie-in locations when requested.

### CONSULTING

Consulting with GDS consists of specialized solutions when our clients need them. If you have an idea of how 3D laser scanning may be utilized on your project, GDS will work with you to create a customized deliverable to meet your **POINT CLOUD** needs.

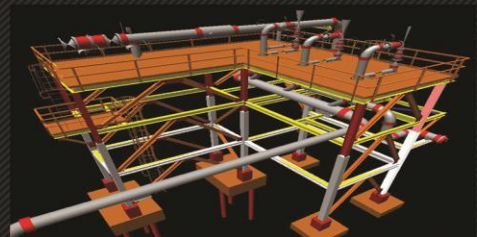
GDS services are comprised of multiple compliments to 3D laser scanning. Our goal at GDS is to educate our clients with all the **POINT CLOUD** options available to suit the individual requirements of each project. Be sure to visit our website for added services - <http://www.GlobalDesignSolutions.com/services/3d-laser-scanning/>

## BENEFITS OF 3D LASER SCANNING

- ACKNOWLEDGE PROBLEMS AHEAD OF TIME
- VERIFY FIELD MEASUREMENTS AT COMPUTER
- REFERENCE SCANS INTO DESIGN DRAWINGS
- SEAMLESS MULTI-DISCIPLINE COORDINATION
- EXTRACTION OF PIPE AND STEEL FOR TIE-INS
- TAG NOTES INSIDE OF THE AS-BUILT MODEL
- PRECISE CONCEPTUAL DESIGNS
- CLASH DETECTION TO EXISTING CONDITIONS
- FASTER DESIGN DELIVERABLES

## 3D LASER SCANNING MARKETS

- PETROCHEMICAL
- COMMERCIAL
- AGRICULTURAL
- AEROSPACE
- ARCHITECTURAL
- RESIDENTIAL
- GOVERNMENTAL
- AND MUCH MORE...



## SAFETY DRIVEN PROJECT CONTROLS

- Plant safety compliant through PICS auditing - green flagged
- General liability and workers compensation insured
- All staff TWIC Compliant
- All staff meet and over exceed the safety requirements for plant entry (Pending site specific training)
- On site field qualified safety supervisor

GDS understands the need for safety compliance. We are prepared to meet the safety requirements of our clients.