

# WHAT IS PROCESS SOLUTIONS?

## A CASE STUDY

### ⚙️ AMERICAN SEMICONDUCTOR COMPANY

Since clients are protected by strict non-disclosure agreements, their name and products must remain anonymous.



#### INITIAL PROBLEM AND PROJECT:

The customer requested construction of a ground-up facility for manufacturing. 10 years after construction of the original facility, an expansion was requested for additional office and manufacturing space.



#### WHY THE CLIENT CHOSE TD OVER PROCESS SOLUTIONS ALTERNATIVES:

The customer appreciated TD's safety record and emphasis on reliability. They knew they could count on TD to perform construction and maintenance without disrupting facility operations. TD's staff is trained to recognize and steer clear of situations that could compromise or disrupt the normal flow of day-to-day operations.

Additionally, TD could also meet client needs for **schedule** and **budget**. The TD Process Solutions team is equipped with an 8000 sq. ft. in-house manufacturing facility with expertise working in secure manufacturing environments, and a class 1000 clean room for fabrication. From this manufacturing center, piping and sheet metal duct systems could be welded and manufactured to meet client specifications.



#### WHY WAS TIMING SO IMPORTANT? HOW COULD TD OFFER SUCH A COMPETITIVE BUDGET?

In order to keep up with new advances in technology (the inspiration for the facility expansion), the client not only needed more manufacturing space, but needed it quickly. In general, this is a common request for Process Solutions since many of the projects are time-sensitive and speed-to-market is critical for clients to stay competitive.

TD could help the client meet both schedule and budget needs not just because of the effectiveness of the Process Solutions staff itself, but the integration with the TD commercial staff. Together, the teams could simultaneously build out the facility the client requested without a need for the client to reach out to separate contractors for the job. TD offered a sizable portion of the project as a one-stop-shop, but could also help the client select the right materials for the job on the Process Solutions side, resulting in considerable cost savings.

#### ⚙️ SUMMARY:

Overall, TD's priority on safety and reliability stood out to this client, with budget and scheduling following closely in priority. Over time, TD built a strong relationship with the client following the initial project. That trust gave TD's Project Solutions staff an opportunity to be the partner they needed.

## A LEGACY OF HIGH-PURITY PIPING, CLEAN MANUFACTURING TD Industries Leads the Way in Semiconductors and Related Industries

### WHY CUSTOMERS FROM ALL INDUSTRIES CHOOSE TD AS A TRUSTED PARTNER

Our team values safety, honesty and reliability above all else. Customers who work with us on a project know they're getting a team they can trust to engineer and execute fabrication and installation the right way. Here's what you can expect when you choose us as a partner:



#### **SAFETY FIRST, SAFETY ALWAYS:**

For our team, the safety of personnel in a facility is of utmost importance and we do not compromise. Due to the critical nature of the many chemicals and high pressure within high-purity piping systems, we take extra care to protect all facility occupants and train our personnel with the proper certifications. We're there to protect the safety of not only our Partners, but that of our clients and their clients, too.



#### **RELIABILITY MEANS NO UNPLANNED DOWNTIME:**

TD Process Solutions personnel can execute contracted tasks without disrupting facility operations. Reliability means no downtime. We train our staff to perform their tasks with an intimate understanding of disruption risks and how to avoid them.



#### **FULL SUITE OF SERVICES:**

TD offers the full gamut of services: clean room architectural, mechanical, electrical, and engineering. We help customers design, build, remodel, and maintain their processes and facilities.



#### **SPEED TO MARKET AND BUDGET**

TD offers competitive time benefits, allowing customers a time-to-market competitive edge that can adjust to match specific budget needs.

## CERTIFIED STAFF – OUR STAFF HOLDS THE FOLLOWING CERTIFICATIONS:

- ARC Machines Training Certificate
- TDPS SOP 1700
- TDI GTAW- ORB 10 .065
- TDI GTAW- ORB 12A 1/2" .049/.065
- TDI GTAW-ORB 13A 1/2" .049"
- TDI GTAW- D9.1-14
- TDI GTAW- Alum D1.3
- TDI GTAW SS-01 2"
- TDI GTAW- SS-1 Plate
- TDI GTAW- CS-01 2"
- TDI GMAW- SS D1.3
- TDI GMAW- CS D1.3
- TDI GMAW- D9.1-13
- TDI GMAW- 17
- TDI GMAW- 5 6"
- TDI SMAW- 9 6"
- TDI SMAW- 9 2"
- TDI SMAW- 1A D1.1
- Fuseal II
- IR 225/315 Plus
- IR 450 Welder Training
- IR 63 Plus Training
- IR 110 Plus Welder Training
- PE, PP Electrofusion/MSA
- CPVC/PVC Solvent Cementing Mechanical Connections Trainer

## EXPERIENCED IN HYBRID PROJECTS WITH COMMERCIAL TEAM:

If a customer needs process solutions, as well as commercial construction or maintenance for their facility, TD can provide the best of both trades.

## STRICT COMPLIANCE TO FDA STANDARDS:

For the life sciences and food and beverage industries, FDA compliance is essential. TD's experience with validation procedures and documentation gives customers peace of mind.