



## CASE STUDY

### 3D Printing Manufacturer

With the ever-expanding 3D printing industry, client ensures they will be in market compliance around the world

#### BACKGROUND

Client is a fast growth 3D printer/Additive manufacturing machine manufacturer. They manufacture industrial machines specialized for use in producing parts for the medical, aerospace, industrial and defense industries and have expanded recently into the pro-consumer/hobbyist market through recent acquisitions. Design and production locations are decentralized, including locations in the USA, Europe and Asia. Machine production media includes both plastic and powdered metals. With the ever-expanding 3D printing industry, the client required expanded testing and certification to ensure they will be in market compliance around the world.

#### BUSINESS CHALLENGE

- Ensuring equipment and materials meet mandatory market regulations for sale and use in North America and Europe
- Developing a core team responsible for compliance management and common organizational understanding of the regulations required
- Multiple suppliers of market certification requirements leading to duplication in costs and inconsistent application of and interpretation of standards.

- Inconsistent design of product leading to equipment not being ready for shipment to planned markets on time.

#### SOLUTION AND RESULTS

- Experience - Local TÜV Rheinland engineers worked with the clients design review teams to address in-depth conformance issues and provide concise direction on risk mitigation.
- Education – TÜV's experts in EMC, wireless, material and product safety testing provided our clients decentralized staff with 8 hours of classroom time to set the direction for new product development
- Teamwork – TÜV Rheinland is integrated into the clients design development team and is the "go to" for all conformity related questions
- Our clients decentralized organization is on the same page and able to identify mandatory equipment standards, directives and regulations
- Equipment safety and compliance is now designed into their products eliminating the cost of rework and missed shipment dates.
- A TÜV compliance platform was established to eliminate the guess work, redundant testing-certification-factory inspections – saving cost, time and aggravation
- The client has gained an edge in being able to deliver their products to market faster than their competition.

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