



# TYREX<sup>®</sup>

## GROUP, LTD.

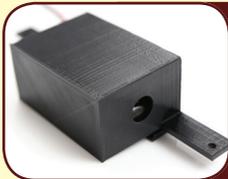
*Bright Ideas*



### OUR PROCESS ...



**Control Box  
Capacitor  
Holder**



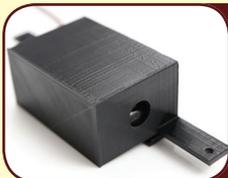
**Holder  
Design  
TEKREX**



**Materials  
Testing**  
ARL Austin  
Reliability  
Labs



**Additive Mfg.  
Production**  
SabeRex



**3D Printed  
Capacitor  
Holder**



**Competitive  
Co-Market  
Positioning**

Save More!

Sell More!!

Share More!!!

## CAPACITOR HOLDER



### CHALLENGE:

A company used a 3D Printing Bureau for a capacitor holder to be used in a control box. The bureau printed the part using a powder-based SLS process based on the file sent. The finished product didn't align with mounting holes, and a powder residue was left in the finished holders.



### SOLUTION:

The TekRex team redesigned to account for tolerances and reorientated the opening with a push hole for easy removal of the capacitor pack with less strain on the wire connections. Switched to ABS using a fused filament fabrication process to eliminate unwanted powder residue and reduced cost 18%!

*Bright Ideas* is the TyRex Family's **New Evolutionary Technology THINKING** program designed to create "Innovative Marketing Initiatives" that will develop into **Expanding Markets** with "Competitive Co-Market Positioning" utilizing our newest tool, **3D PRINTING**. The program has enabled our family of companies to reduce time with large cost savings through quick-turn prototypes, time-efficient jigs and fixtures, and, of course, overall production cost reductions. We are excited to offer these same possibilities to you and your customers as co-marketing partners.



**DESIGN**

**TEST**

**PRINT**

*TyRex ... Your Additive Manufacturing Solution*

# ADDITIVE MANUFACTURING



**TYREX<sup>®</sup>**  
**GROUP, LTD.**

Family of Technology Companies

## YOUR ADDITIVE MANUFACTURING SOLUTION

By leveraging the expertise and skill of our entire technology family, TyRex has established itself as the most complete and comprehensive 3D printing (additive manufacturing) entity related to services and engineered technical support in North America.

Together we can offer unique additive manufacturing solutions that meet the specific requirements of your project and/or product, while also providing cost savings and time efficiencies to help your business prosper. To do this, our team will serve as your guide (Sherpa) on a journey from design (**TekRex**) and testing (**Austin Reliability Labs**) to production (**SabeRex**) and beyond all under one roof.

For more information or if you have any questions about our additive manufacturing solutions, please log on to [tyrexfmfg.com](http://tyrexfmfg.com) or contact TyRex Executive Vice President Martin Johnson at (512) 615-4632 or [mjohnson@tyrexfmfg.com](mailto:mjohnson@tyrexfmfg.com).



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