



How Quinly Made the Impossible Possible for Rep Rap

REPRAP CASE STUDY



OVERVIEW

RepRap is a retailer for everything 3D printing. They have the largest selection of in-stock printers, scanners and filament in Western Canada. They have two busy locations in Edmonton Alberta, with one having opened recently. They own one Ender 3 V2 and one Prusa MK3S+ with Quinly installed. With these two 3D printers, they make parts to enhance their shop.



THEIR CHALLENGE

A month ago, the team came up with an idea to display over 100 different varieties of filament along a long wall at their new location. They wanted this wall of filament to be completed by the opening day of the shop. Since each spool mount takes around 6 hours to print, they would have only been able to print 2 holders a day given their limited time at the shop to cycle the prints. It would have taken them 50 days to complete the 100 spool holders needed for their spool wall. At that rate, they wouldn't be able to finish the spool wall in time for the opening day.



“Without the quinly’s we probably wouldn’t have considered taking on this project because it wouldn’t have finished in time for opening day”



Evaluation – Why Quinly

Quinly allows 3D printers to print 24/7 without the touch of an operator. Quinly automation schedules, removes, and reloads your prints for you to create seamless production.

By running two printers with Quinly, Lucas Sperling cut production time from 50 days to 20 days, for an overall 150% increase in productivity, and a reduction in error of 40%. Additionally there was a reduction in labour time of 50%.

This is how Lucas described Quinly:

“Way less labour. Way faster. Way less error. Super easy to queue up 20 parts and leave for the weekend. The only issue is lack of filament”

After printing many holders, the team found a flaw in the design that made them consider starting over. Lucas Sperling stated, “we wouldn’t consider re-designing and re-printing if we weren’t able to employ the Quinly’s.” With Quinly, parts are printed at a much faster rate, making the impossible possible.

RESULTS



150%

Increase in
Productivity



50%

reduction in
labour time



40%

reduction in
error

SUMMARY

With the days that Quinly saved, RepRap had time to finalize their design and build their spool wall well before the opening day.

