

## Case Study: Assembly of Components to One Cosmetic Casting

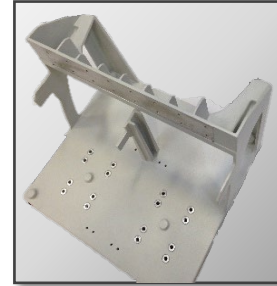
General Foundry partnered with Rainin Instruments to redesign their Liquidator Frame. This redesign moved from a machined assembly to a single cosmetic sand casting.



**Assembly**

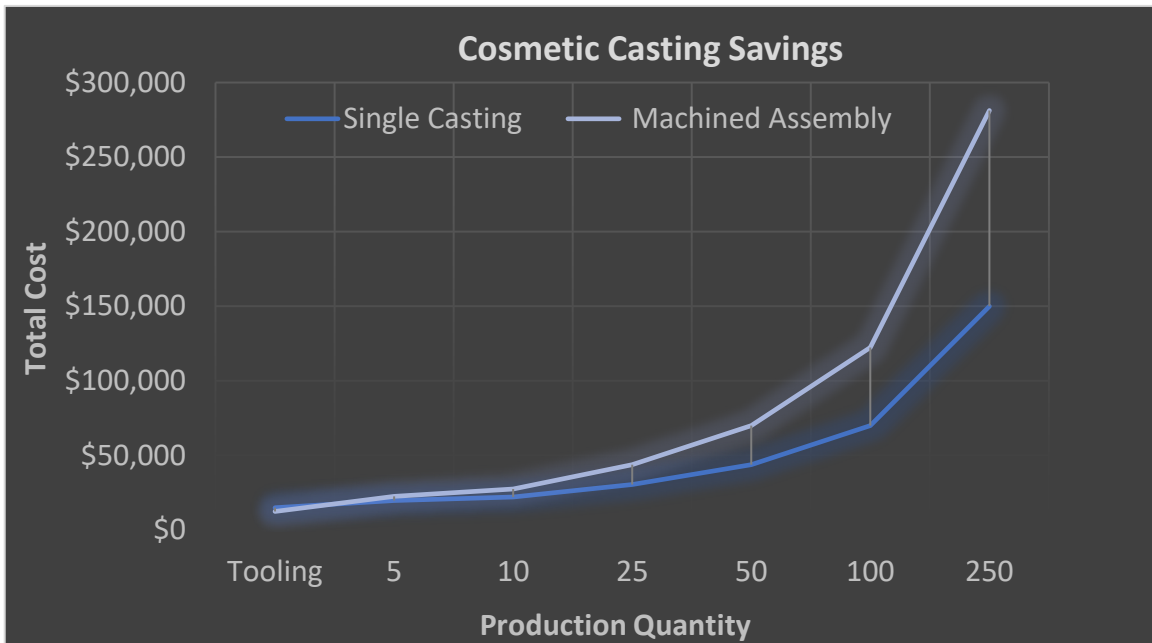


**Single Part**



**Machined, powdercoated casting**

The redesigned cast base created a more aesthetic industrial design, increased stability and a tooling payback at just over 25 pieces.



Qty	Single Casting		Machined Assembly		Casting Savings
	Piece Price	Total Cost	Piece Price	Total Cost	
<b>Tooling</b>	\$0	\$15,000	\$0	\$12,500	
<b>5</b>	\$975	\$19,875	\$2,000	\$22,500	<b>\$2,625</b>
<b>10</b>	\$725	\$22,250	\$1,500	\$27,500	<b>\$5,250</b>
<b>25</b>	\$625	\$30,625	\$1,250	\$43,750	<b>\$13,125</b>
<b>50</b>	\$575	\$43,750	\$1,150	\$70,000	<b>\$26,250</b>
<b>100</b>	\$550	\$70,000	\$1,100	\$122,500	<b>\$52,500</b>
<b>250</b>	\$540	\$150,000	\$1,075	\$281,250	<b>\$131,250</b>

