



# CASE STUDY:



## International Injection Molder Lowers Pressure for Lighter Part Weight, Lower Costs, and Faster Cycle Times.

### Challenge:

Hayco specializes in complex parts that require high levels of technology, product delivery, and design. These innovative parts often prove to be a challenge to mold.

- Mold complexity required high pressure and tonnage, demanding larger presses.
- To meet part demands, the process often overpacked the molds.



### Action:

Hayco partnered with iMFLUX to mold parts at a lower pressure and reinvested pressure savings into fewer machines, lighter parts, faster cycle times, and lowered overall costs.

### Results:



Up to **35%** Weight Reduction for This Part\*

\* iMFLUX typically results in 1-3% weight reduction

<b>Cycle Time Reduction:</b>	<b>16%</b>
<b>Part Cost Reduction:</b>	<b>17%</b>
<b>New Presses:</b>	<b>400 Ton vs. 500 Ton</b>

- iMFLUX allows for unique thin wall design that may not be possible with conventional molding.
- Hayco was able to achieve weight reductions of up to 35% on some part components.
- Hayco realized faster cycle times using fewer IMMs to make the same volume.
- The autonomous nature of iMFLUX also reduced their reliance on highly skilled injection molding operators.



The benefits we have seen with iMFLUX has been a reduction in the cycle time of existing molds and also the ability with new tools to increase cavitation by up to 50%, which allows us to free up injection molding capacity and production space for other activities."



Christopher Hay, CEO Hayco