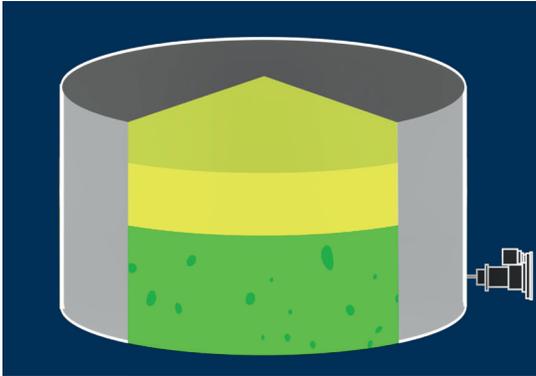


# Return on Investment & Cost of Ownership

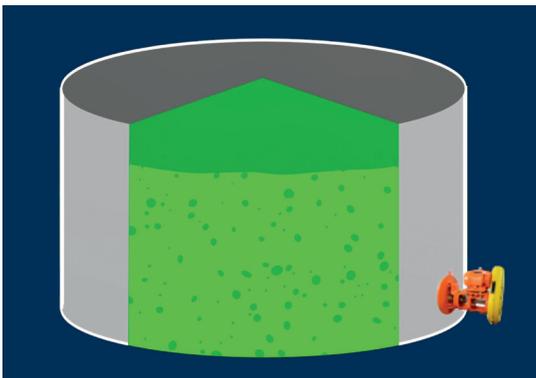
*The phrases “Return on Investment” and “Cost of Ownership” are often overused. But, in the case of Philadelphia Mixing Solutions, we deliver!*

## Blending to specification can save thousands.

Conversely, missing a blend specification can do tremendous harm to the bottom line; yet, there are refineries missing blend specifications all the time.



Many tank mixers are fitted with propellers that do not mix the entire tank. The reason for this may be that the mixer vendor does not fully appreciate the performance of their propeller. In fact, many mixer vendors have never **fully** tested their propellers. This can result in tank contents only reaching 60-80% specification, at best.



Philadelphia Mixing Solutions propellers are **fully tested** – in the laboratory **and** in the field. In one such test, a PMSL propeller was fitted to a competitor’s mixer. It outperformed their propeller by blending faster, proving the PMSL propeller generated more flow!

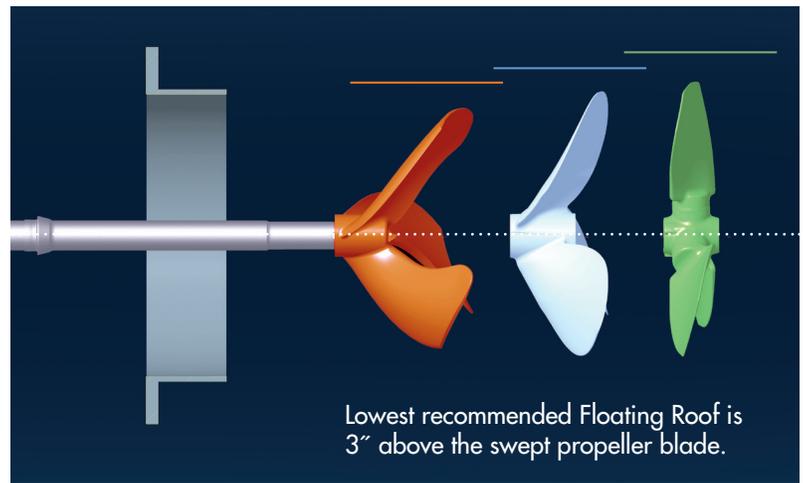
**Then, consider working volume.** Increasing the working volume of a petroleum storage tank can bring in additional revenue, especially if it doesn’t involve a major structural alteration to the tank. Using a smaller diameter and a more efficient propeller can increase that volume.

Increase in working volumes is worth thousands of dollars in shipping revenue.

Here, we compare a typical selection with a Philadelphia Mixing Solutions 26.21”Ø AP Propeller, a 30”Ø Marine Propeller, and a 32”Ø Pitch Adjusted Propeller.

The increase in working/shipping volumes is as follows:

- PMSL versus Marine Propeller = 1.895”
- PMSL versus Pitch Adjusted Propeller = 2.895”



Actual Increase in Volume by using Philadelphia Mixing Solutions AP Propeller (bbls)

Tank Dia. Feet	1”/ 25mm	1.5”/ 38mm	2”/ 51mm	2.5”/ 63.5mm	3”/ 76.2mm	3.5”/ 89mm
50	29	43.75	58	73	87.5	102
100	117	175	234	292	350	408
150	262	393	524	656	787	918
200	466	700	932	1166	1399	1631
250	728	1092	1456	1821	2185	2549
300	1049	1573	2098	2622	3147	3672
350	1428	2142	2856	3570	4284	4998

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LIMITED**