

Erie Strayer mixer open gear greasing system

Gordon Renshaw | 8 Dec 2022 | ID317

🚩 Idea of the Month Competition Nominees

✅ Closed with success by Gordon Renshaw

Approver: Gordon Renshaw

Implementation coordinator: Gordon Renshaw

Plan: Quick Wins

Classes: Efficiency + Employee Engagement + Environmental + Health & Safety

Problem, context, environment, status

To coat and protect the open gears of an Erie Strayer mixer has a list of issues. Working at height, access and egress, efficiency, waste from over greasing and the time to do the task.

We needed a solution that solved all the above issues and was effective enough to save huge costs if it wasn't.

Resources: Over greasing, Access and egress, working at height



Over greasing



Access and egress, working at height

Description of the initiative

We needed an automated system that would place the open gear compound in the right areas, whilst the mixer was running and take away the need to work at height, carry objects into an awkward space. It needed to be efficient and reduce waste, it also needed to be effective. The ring gear is an integral part of the drum and if not properly protected, it would lose its hard surface and wear dramatically. This isn't a part that can be changed without replacing the drum. Last time we replaced the drum the cost was £250,000. We worked with Fuchs and Hayley's to find the right lubricant to protect and coat the gears.

Expected benefits

Eliminate health and safety risks, reduce wear, accurate and consistent lubrication and reduce waste.

Attached is a case study that Hayleys did for us.

Resources: Case study

Financial analysis

Title	Impact distributed over time	Forecast amount
Lubrication system	12-03-2020	-£8,167.0
Saved at least one replacement / refurbishment Please see attached PDF showing costings for replacing Carriage Rollers, Guide Rollers, Pinions & Gear Ring!	03-01-2022	£276,000.0
Total cost amount		-£8,167.0
Total gains amount		£276,000.0
ROI		£267,833.0
Profitability		3,279%

Gordon Renshaw – 16 Jan 2023