

HOW TO INCREASE PRODUCTIVITY AND REDUCE BLASTING COSTS FOR COATING OF CONSTRUCTION REBARS?

Context

#1

Our client is a major rebar manufacturer in USA, part of one of the top 10 world largest steel company. They were using Ervin MG25 and MG18 mixing in the blast machine depending profile. But they had identified descaling as one part of their process they need to improve to gain in productivity, and no support was available from their previous supplier.

#2

Actions

- We recommended to switch to a custom blend ready to use made of GB18 / GB25.
- ✓ Over the course of an 8 week trial, WAbrasive & Customer took a 3 step approach.

1. Test GL hardness.

Profiles, peak count and backside contamination characteristics all improved but abrasive consumption and wear part cost increased to make this option inviable.

2. Test GB (MG) hardness with Ervin size grading.

Results were similar to Ervin original situation.

3. Test GB hardness product with standard WA screening.

Consumption was lowered by 11%, peak count improved by 14% and profiles improved by 14%. While backside contamination was higher (3%), customer was confident this would be workable as spec. is <=25%. This issue was improved later with improved seperator and cabinet ventilation by Walue.

Our experts used the WA CAM to verify and adjust the blasting patterns of the machine.







The productivity increased 10% thanks to the line speed pushed to 55ft/min versus 50ft/min with the previous product.



The surface profile is more consistent with an increased peak count.

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The customer signed a 2 year exclusive agreement with WA

