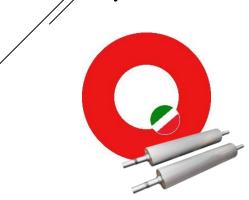


# **TITANIUM-COATED ROLLS**

IAOM SEA-JAKARTA, OCTOBER 7<sup>TH</sup>, 2019

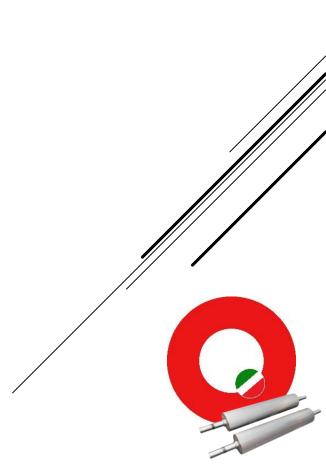
With the aim to optimize and enhance the mill's operation, Ocrim has decided to focus on the grinding rolls, designing a solution that would help in reducing both time and maintenance costs:

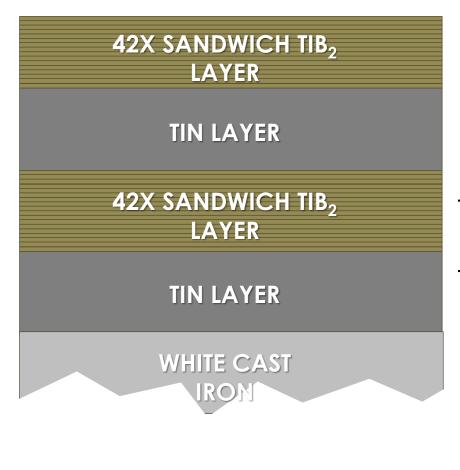
TITANIUM- COATED ROLLS for the fluted passages in the grinding process.



- HIGHER HARDNESS CHARACTERISTICS
- ANTIMICROBIAL MATERIAL
- BENEFITS IN OTHER INDUSTRIES

## WHY TITANIUM?





### **TITANIUM COATING**

COATED BY PACVD PROCESS TWO INDIVIDUAL COATING PROCEDURES :

TIN LAYER + 42X SANDWICH TIB<sub>2</sub> LAYER + TIN LAYER + 42X SANDWICH TIB<sub>2</sub> LAYER



# ADVANTAGES: 4 TIMES HIGHER IN HARDNESS COMPARED TO TRADITIONAL ROLLS

2200 HB VS 560 HB

GUARANTEES: -FLUTING LASTS LONGER -LESS MAINTENANCE COSTS With **TITANIUM-COATED ROLLS** the ideal configuration of the plant lasts longer, remaining as unaltered as possible.

#### NOMINAL PLANT YIELD LASTS LONGER + LESS MAINTENANCE COSTS + LESS ENERGY CONSUMPTION

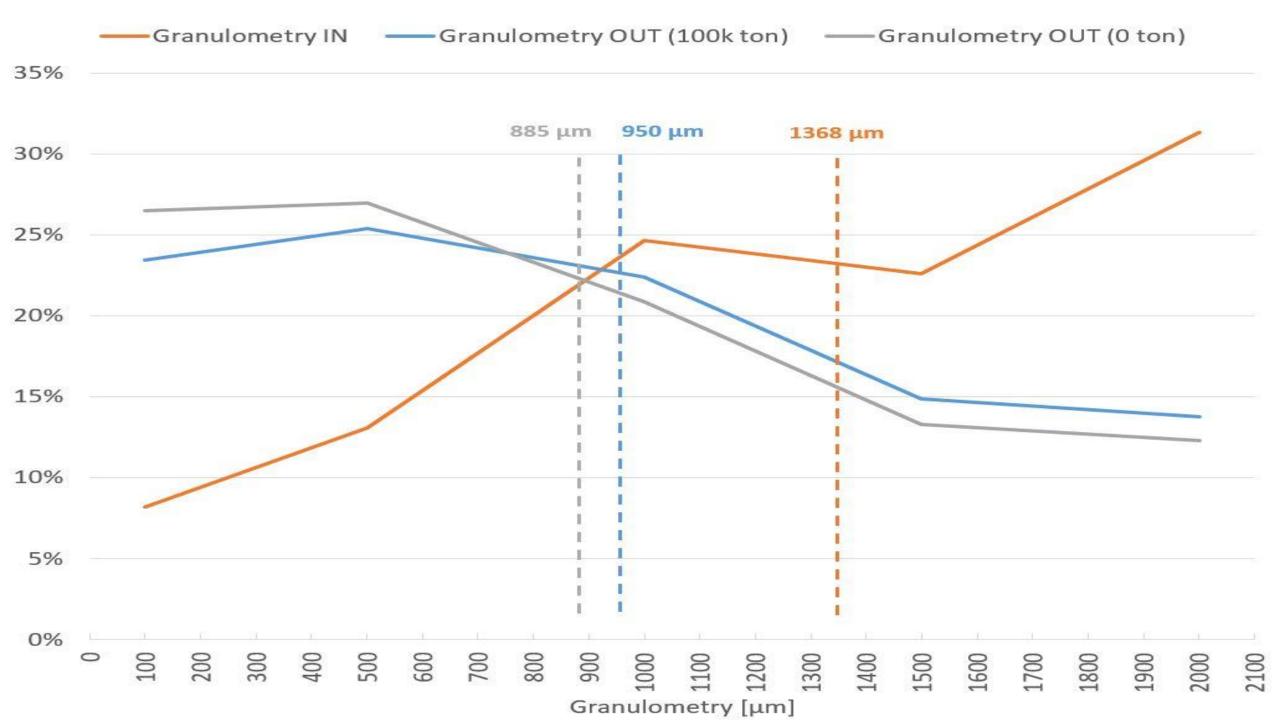
#### **ADVANTAGES**

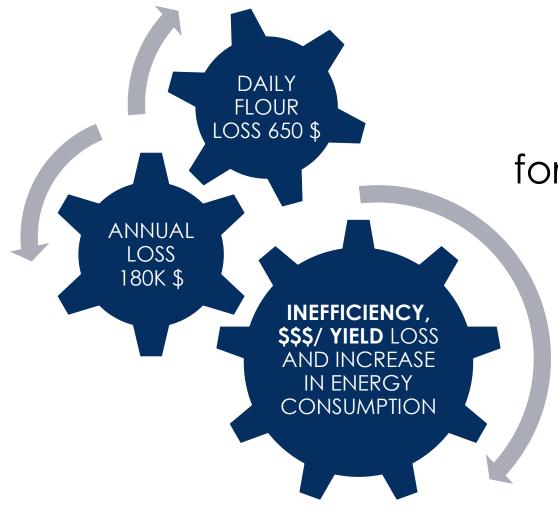
TITANIUM-COATED ROLLS were tested on a running Mill in Italy.

- With new TITANIUM-COATED ROLLS the average particle size of the outgoing product was 885 microns
- After 100,000 tons the average granulometry shifted to 950 microns

The granulometry value has not changed much, showing an insignificant wear of the grinding roll.







# A drop of **0.5%** in yield for a 300TPD flour mill, causes:

