



ROLLER SCREEN ROLLS

Pre pelletizing and pelletizing



Besides manufacturing roller screen, FMS specifically focuses on manufacturing of rolls as the main spare part of roller screens. Depending on roller screen application, classifying green pellet or scalping iron ore concentrate, particular rolls are designed by FMS. Different rolls and coatings have been tested successfully over years in real application in plants.

Most common base materials and coatings are categorized as follow:

- Stainless steel 304 and CA6NM
- Chrome plated coating
- SF series coating
- AF series coating

Stainless steel uncoated rolls have acceptable performance in pellet screening while long time working wears the outer diameter along the roll that affects screening efficiency. Chrome plated rolls have higher life time comparing uncoated rolls and usually suggested for impact rolls.



All coated rolls have the chance of recycling base material and recoating.

SF80 Rolls

FMS solution for protecting HPGR (High Pressure Grinding Rolls) is a professional roller screen which is unique in its type in world.

While performance of vibratory screens dramatically drops with increase in humidity and even un-functional for above 8% material humidity, FMS scalper screen has been successfully utilized for scalping iron ore concentrate with 9-13% humidity and capacity up to 1000 tph. The innovative low friction SF coating prevents sticking high humidity material to the roll.



AF190 Rolls

Availability⁺ series

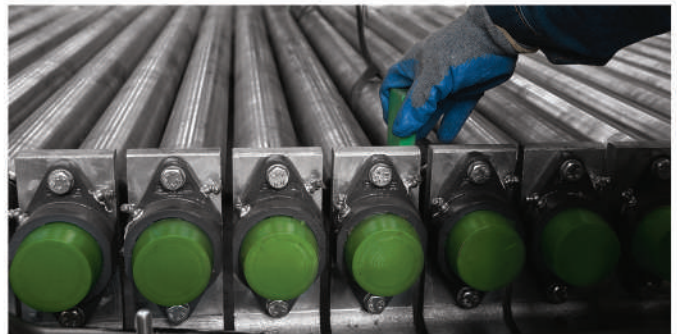


FMS is one of two companies in the world which specifically manufactures pelletizing plant roller screen and wear resistant rolls called AF190.

FMS roll production line generates different types of AF series roll upon rolls length and feed material specification. AF roll is the high wear and corrosion resistant thermal spray coating type which bears abrasion, sticking material and impact of material flow.

AF190 roll gives your plant :

- Always uniform cylindrical shape of roller
- Always constant roller gap
- High screening performance of roller screen and in result reduction of circulating load
- No re-gapping cycles
- Narrow range of product pellet diameter



In a word, it makes your roller screen **available⁺**.

5'

Replacing FMS rolls with removable shaft mechanism takes just **about 5 minutes**.

Model	Coating type	Life time	Application	Location	Re-gapping interval
SF 80	Polymer base	+24 months	Protecting HPGR	Concentrate scalping	No re-gapping required
AF190	Carbide base	+36 months	Classifying green pellet	Pelletizing plant	No re-gapping required
CA6NM	No coating	9-14 months	Classifying green pellet	Pelletizing plant	Every 45 days