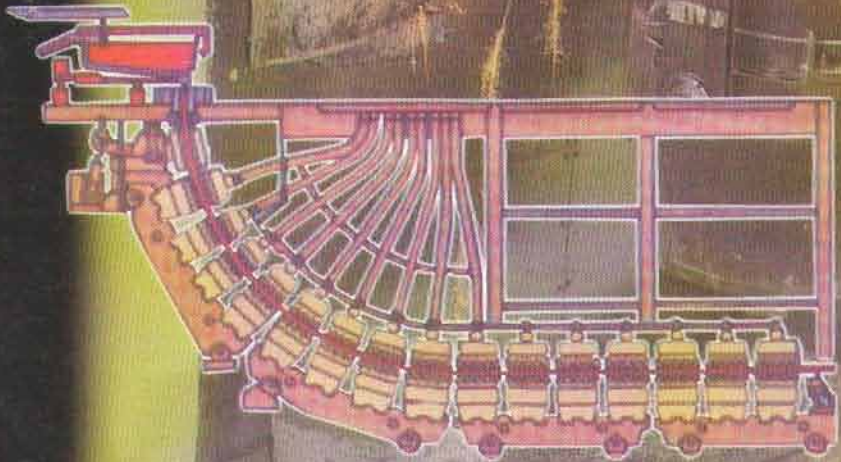
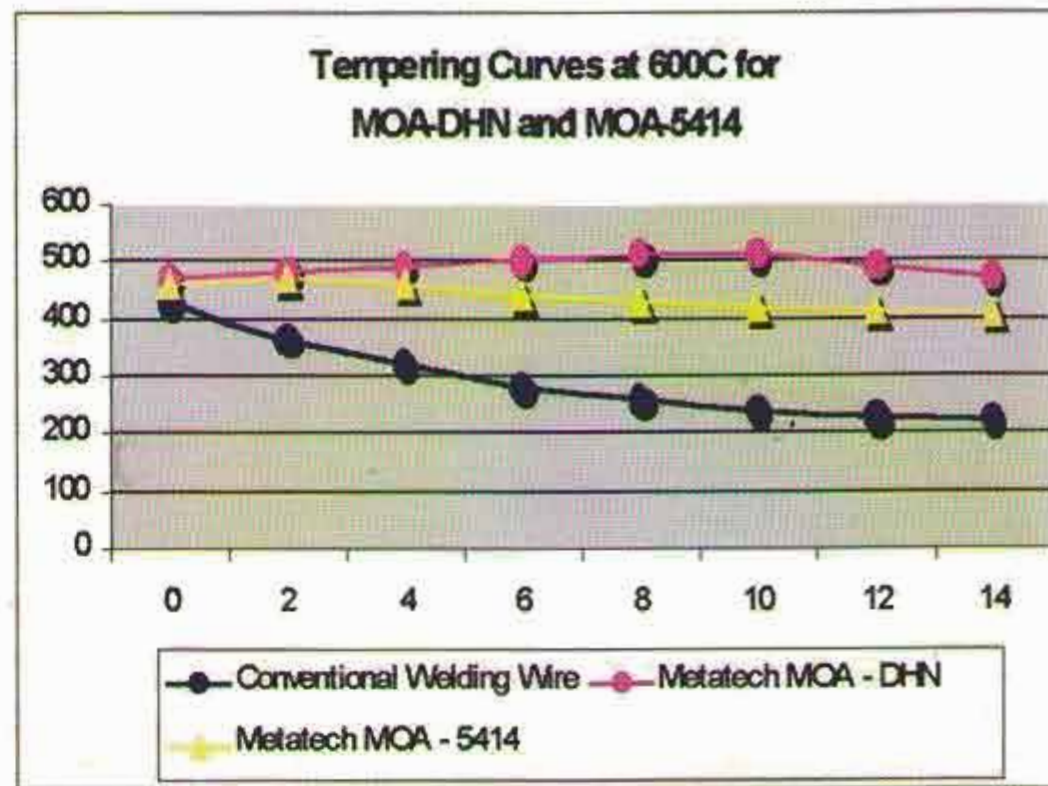


# Surfacing Steel Mill Rolls...



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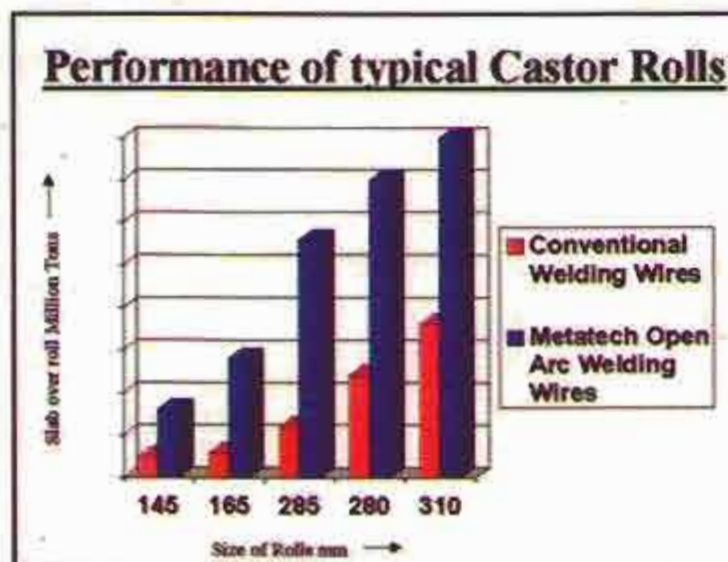
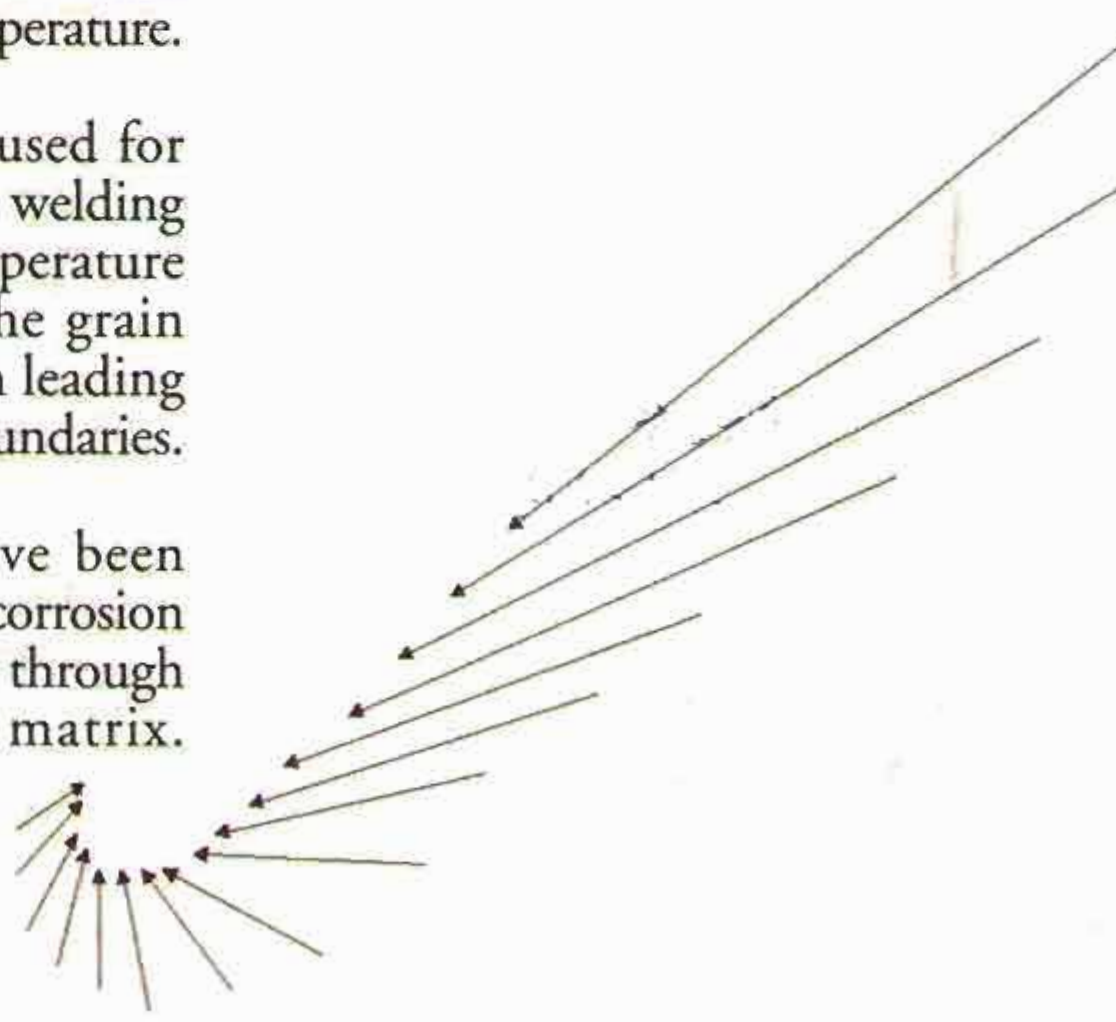
Metatech series of advanced open arc welding alloys increase the service life of the steel mill rolls.

- Eliminate Heat Cracks.
- Enhanced Corrosion Resistance.
- Enhanced Abrasion Resistance.
- Enhanced Resistance to tempering at elevated Temperature.

Rolls in the steel industry are subjected to harsh working conditions. Degradation of the rolls is enhanced when combined with oxidation and corrosion at elevated temperature.

Since many years Martensitic Stainless Steels are used for surfacing of steel mill rolls. The carbon content of the welding wire is in the range of 0.15 to 0.25%. At elevated temperature Chromium Carbide ( $Cr_{23}C_7$ ) precipitates at the grain boundaries. The surface gets depleted of Chromium leading to corrosion and the cracks initiate from hard grain boundaries.

Carbon in Metatech Series of welding wires have been suppressed to the minimum to eliminate cracking and corrosion at elevated temperature. The alloy deposit is hardened through uniformly dispersed interstitial alloys in the matrix.

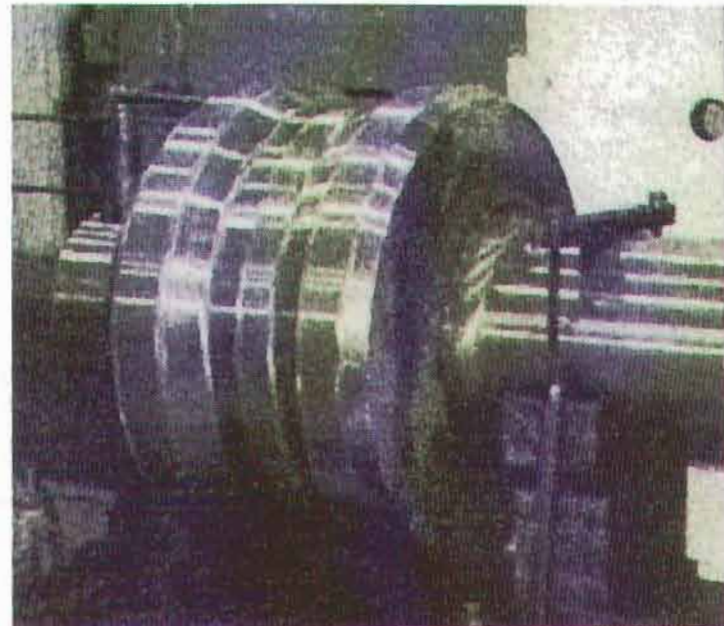


# Metatech Series of Self Shielded Welding Wires for Surfacing of Steel Mill Rolls

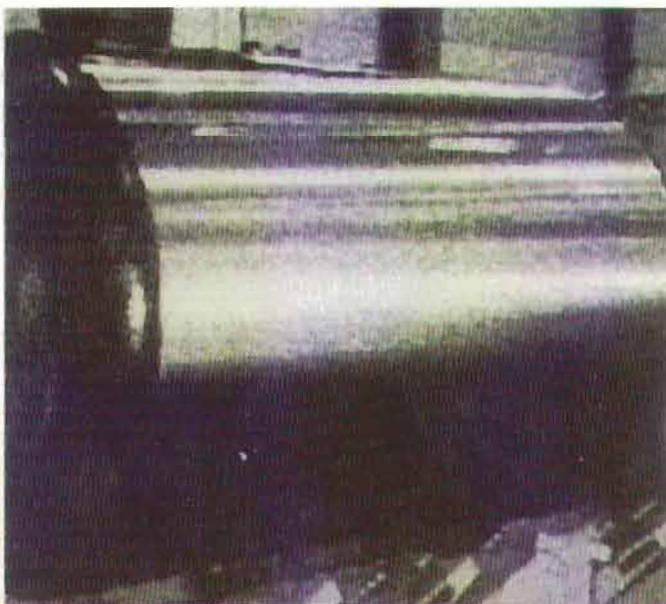
Product	C	Mn	Si	Cr	Ni	Mo	Co	V	W	Hardness
Metatech MOA - 5430	0.06	1.20	0.50	18.00-	-	-	-	-	-	Rc 20-22
Metatech MOA - 5414	0.04	1.15	0.65	12.80	4.20	0.45	-	-	-	Rc 42-45
Metatech MOA - DHN	0.03	1.25	0.55	12.60	5.00	0.65	2.15	0.55	0.90	Rc 44-48



Castor Roll



Edger Roll



Pinch Roll



**MAILAM**

MAILAM INDIA LIMITED  
AN ISO 9002 COMPANY

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