

A pioneering Indian strip producer

While everybody was closely watching the fast development of the copper alloy semi-finished product industry in China for the last few years, some interesting activities in India have probably been missed. Rashtriya Metal Industries Ltd. (RMIL) for sure belongs to those who are worth a glance.

Rashtriya Metal Industries Ltd. (RMIL) is a leading producer of copper alloy strips in India, being one of the premier producers of specialty cold rolled strips, blanks and cups in a wide range of copper and copper alloys. Established in 1947 by the late Mr. Bhawanidas Binani, RMIL has been manufacturing copper and copper alloy strips for more than 67 years. By continuous investment in equipment and technology, the company has emerged as a leader in specialty copper alloys strips, blanks and cups in India. The company's premium and high performance products cater to worldwide customers in automotive, switchgear, electronics, communications, electrical, decorative, ammunition, coinage and other engineering industries. The company is still owned by the founder's family and at present is headed by his son Mr. Balkrishna Binani.

The first plant was set up in Mumbai in 1947 where copper and copper alloy strips and sheets were being manufactured. A second plant, currently India's most modern manufacturing plant for copper alloy semi-finished products, was set up in Sarigam (Gujarat) approximately 160 km north of Mumbai and commenced commercial production in 2011. The plant is equipped to produce copper (ETP & DHP), copper-zinc (brass) and copper-tin (bronze) alloy ranges as well as nickel brass and nickel silver. To keep investments within viable limits, most of the equipment in the Sarigam plant was procured from recently closed plants in America, Japan and Europe. High quality machines from first class suppliers such as Technica Guss, Wertli, Griset, Achenbach, MINO, Ebner, Wesero, Sundwig, Guida, Bliss, Radcon and Junker are running a successful second life at RMIL.

DAP line

One of the latest equipment to commence production is a continuous degreasing, annealing and pickling (DAP) line by Otto Junker, originally supplied to Italy over 20 years ago.



An overview of the RMIL Sarigam plant



A MINO four-high finishing mill at Sarigam



The Otto Junker degreasing, annealing and pickling (DAP) line

Repair, modification, upgrade, installation and commissioning in Sarigam was carried out by RMIL's own project team with technical support by Mr. Dirk Menzler of HTAix from Aachen, Germany. Although the DAP line did already feature recuperative burners in the

furnace, waste heat utilisation for dryer heating, a Wesero double finish brushing machine, and an ultrafiltration system for the degreasing unit, some modifications and upgrades had to be carried out during the installation.

The outdated Modicon PLC control system was replaced by a modern Siemens S7 including a state of the art HMI touch screen. The DAP line at RMIL in Sarigam is now the only one with a strip flotation furnace running in India. RMIL are now gathering experience with their DAP line, optimising the parameter settings and eliminating minor deficiencies which can only be detected during production.

RMIL also has a well-equipped modern laboratory which in combination with an independent quality assurance system ensures tight process control. A carefully structured system of frequent checks and statistically determined techniques build quality in the process and ensure that customers' requirements are fully met. The products are tested for standard tolerances and other quality parameters as per national and international standards or customer's specifications. The RMIL Plant at Sarigam has received ISO 9001:2008 quality certification. In addition it is certified according to ISO 14001:2004 and ISO/TS 16949:2009 and BS OSHAS 18001:2007 for their occupational health and safety management system. RMIL's overall facility score is very close to Average Global Score as per Workplace Condition Assessment Report (WCAR).

RMIL's operations have contributed immensely towards the nation, their industry and all its stakeholders. Internal safety, environment and people processes are always in focus, ensuring always measured results and improved performance.

www.rashtriyametal.com
www.HTAix.de

Author: Dirk Menzler, HTAix

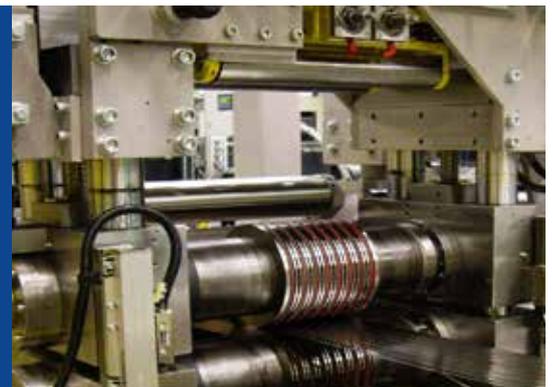


Ideas do not care where they come from. Because only when intelligence and precision, craftsmanship and design work together, an optimum concept can be developed with our know-how and perfectly in line with your specific requirements.

We supply:

- Strip processing lines
- Rolling mill technology
- Slitting lines
- Un-/Recoilers
- Strip edge trimming lines
- Coil handling systems
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hpl-Neugnadenfelder Maschinenfabrik GmbH | Spangenbergstraße 20 | D-49824 Ringe / Neugnadenfeld
Fon + 0 (49) 5944 9301 - 0 | Fax + 0 (49) 5944 9301 - 44 | info@hpl-group.de | www.hpl-group.de

