

## Application Final Stand Filtration – Roll Coolant-Emulsion North American Cold Mills – Various Locations

### Background:

Quality has been an on-going issue for cold mill operators and production teams. Pockmarks and surface imperfections are notorious causes for product downgrading and/or total rejection. Real values placed on these shortfalls attribute to high costs of product and operational expense.

### Description of the solution:

When installed as a point of application final filter to roll stands the BOLLFILTER Automatic Type 6.19 has proven effective in reducing conditions leading to product rejection and/or downgrading.

Especially, when positioned at the most critical final roll stand, the BOLLFILTER Automatic Type 6.19 has an almost immediate pay-back through return on investment. Specially developed, roll bonded filter elements have proven to directly retain particles attributed to surface imperfections.

Not only are the particles retained and eliminated from delivery to the roll bite area, but these same particles are easily eliminated from the system through backwashing. The highly efficient backwash technology, enhanced with steam assist, through bi-direction crossflow and reverse flushing quickly and easily rid the system of detrimental debris.

### Advantages and added value for the customer:

Peripheral benefits aside from enhanced quality are:

- Less frequent roll changes
- Tramp oil reduction
- Prolonged emulsion life without need for periodic dumps
- Scums, soaps and iron fines are controlled
- Options for backwash recovery – zero discharge
- Less plugging & extended spray nozzle life

**Customer:** Numerous steel producers

**System:** BOLLFILTER Automatic Type 6.19 – fine filtration with the use of specially developed roll bonded meshes and steam assist backwash



Conventional 5-stand rolling mill



Rolling Mill Emulsion for roll coolant



BOLLFILTER Automatic Type 6.19 Gr400 with Steam Influenced Backwash Assist