



TOTAL : Solution™

Material Transfer: Continuous Silent Free-Flowing

Tega Solutions:

Smoother Flow • Longer Life • Increased Availability • Decreased Degradation



TEGA WEAR & FLOW SOLUTIONS: CONTINUOUS SILENT FREE-FLOWING

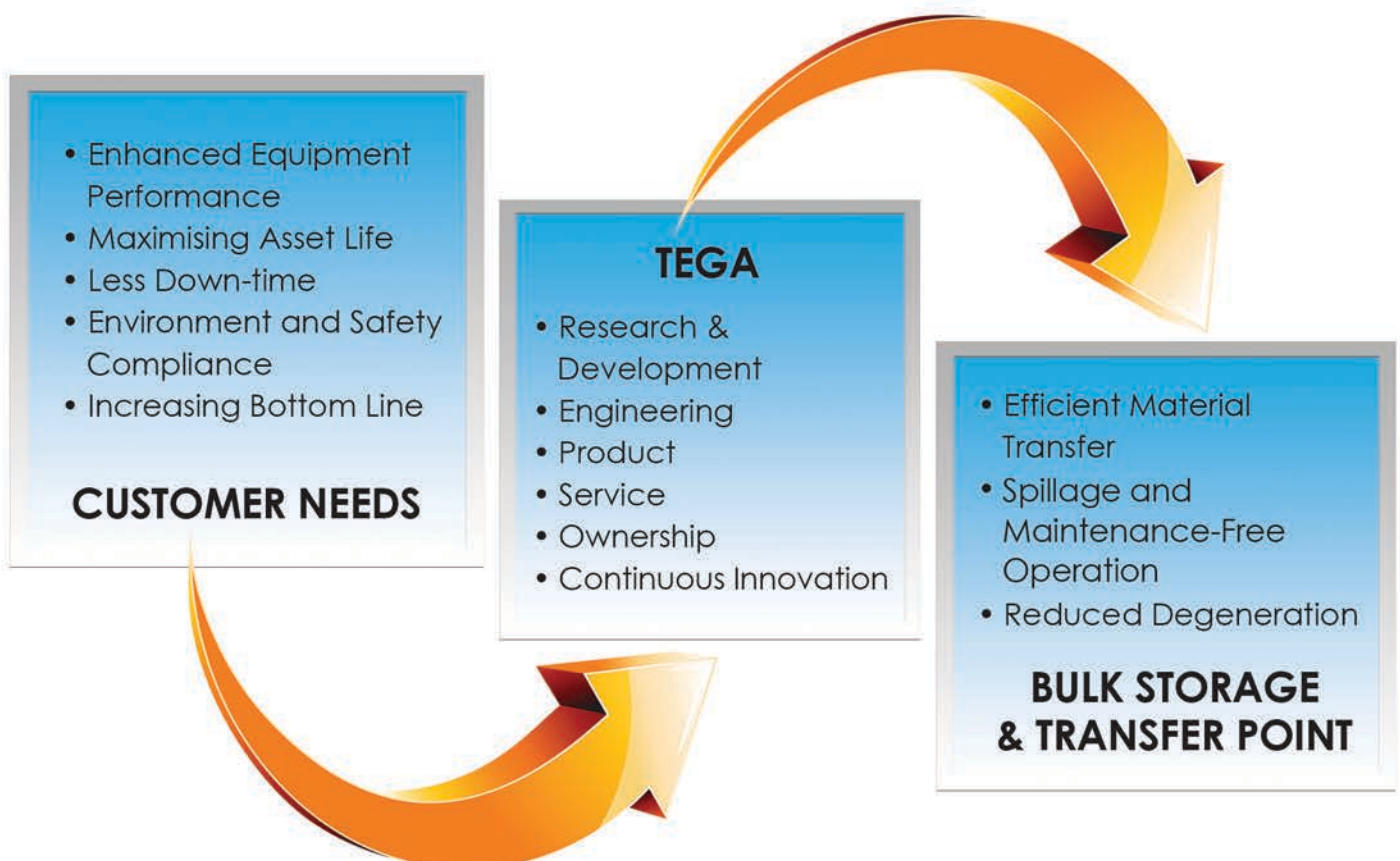
Tega Industries Limited (Tega), a pioneer in the field of specialized wear-resistant products, began operations in 1976. Today, Tega is the Market Leader in this segment, exporting to 72 countries from its 6 plants (3 of which are located in India and the rest in Australia, South Africa and Chile) and 16 offices across the globe. Tega is committed to creating value for its customers throughout the world, by bringing them innovative technologies, products and services.

Tega has been playing a vital role in providing "Total Solution", to its customers, ensuring optimum satisfaction and value for money by delivering quality Wear and Flow Solutions. These ensure improved material flow, longer life of equipment, lower rates of material degradation and help in building a greener, safer environment to work in.

Tega has been awarded the **Integrated Management System (IMS) certification by SGS**. By virtue of this, Tega is now certified for three management systems: Quality Management System (QMS) – ISO 9001:2008, Environment Management System (EMS) – ISO 14001:2004 and Occupational Health & Safety Management System (OHSMS) – OHSAS 18001:2007.

TEGA'S VALUE PROPOSITION

Tega's Wear & Flow Solutions provide significant business value to its partners, helping to achieve business objectives, "Empowering Customers by providing Total Solutions at better costs for the complex problems of material handling and wear and separation of ores found in the mining, material handling and mineral processing industries."



WHAT PROBLEMS DO THESE SOLVE?

While clean operations, safe environments and more integrated processes are paramount, many companies continue to struggle with various challenges such as:

- Impact & Abrasion Wear
- Flow Restriction
- Defragmentation & Fines Generation
- Chemical/pH Effect
- Noise Pollution
- Material Spillage

Operating parameters change dynamically from day to day, month to month, and meeting these challenges require integrated, mission-critical solutions that are efficient, reliable and able to withstand harsh environments, while at the same time remaining flexible enough to grow and expand with the business.

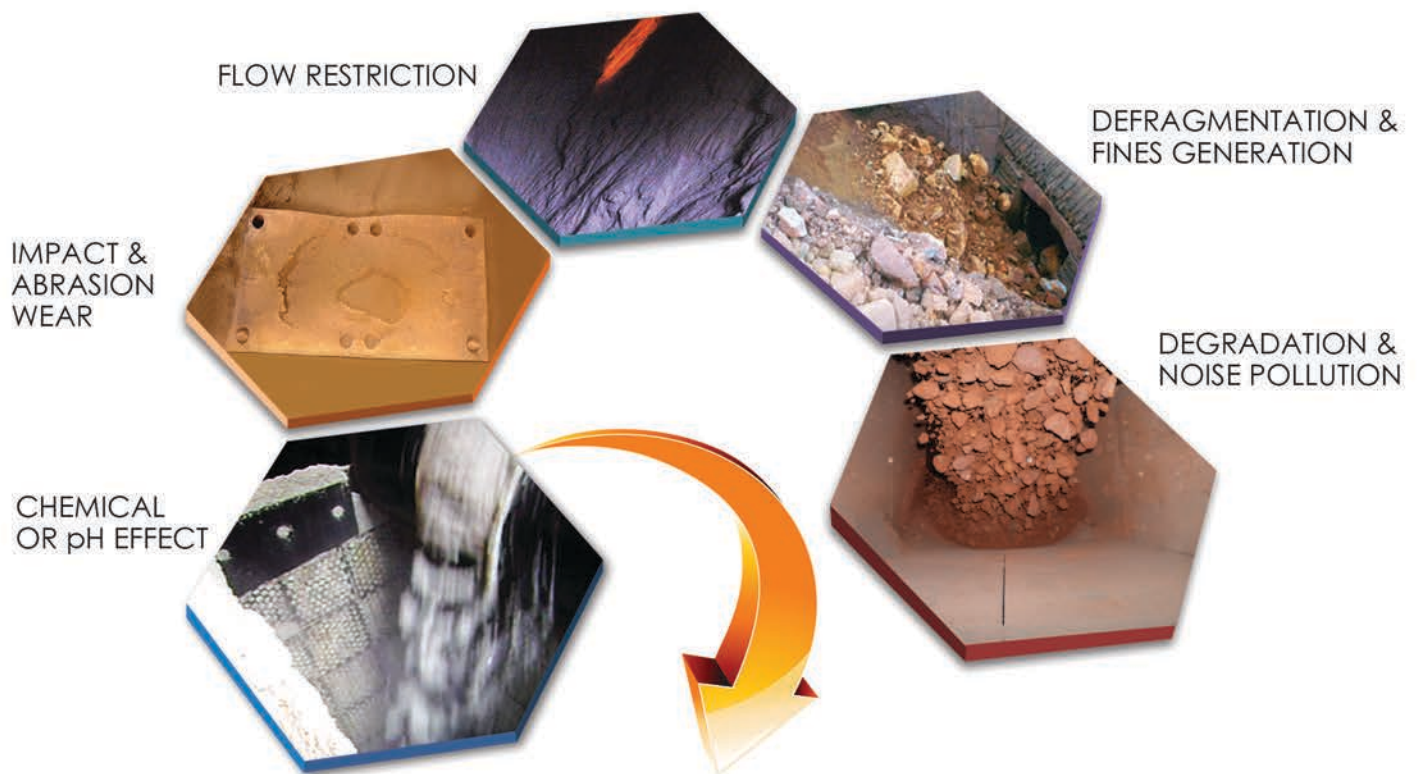
TOTAL SOLUTIONS: INNOVATIVE, RELIABLE, COMPREHENSIVE

A Diagnostic and Solutions Approach

Tega in conjunction with leading industry partners has created a portfolio of solutions that address the challenges faced by the mining industry for Bulk Material handling. By applying its expertise Tega brings a whole new approach to Wear & Flow management in the industrial workplace.

Designed for Global Requirements with Most Advanced Technology

Tega offers the most competitive product portfolio as a one-stop shop with fully integrated in-house facilities and set up structure, utilized for all stages, starting from Chute Designing to Liner Manufacture. From design, simulation and modeling to fabrication, manufacture and final assembly.



DIRECT COSTS

- Cleanup cost: workers & equipment
- Maintenance cost: workers & equipment
- Power per ton of material handled
- Cost of material not salvaged

INDIRECT COSTS

- Shorter life of equipment
- Production loss due to unscheduled shutdowns
- Medical expenses and Manpower loss in unsafe working environments
- Interest cost on increased working capital

DELIVERING SOLUTIONS: VALUE ADDED SERVICES

Tega's innovative lining technology provides Complete Solutions for Wear and Flow where every piece of equipment is specifically manufactured using in-house computerized design programs, and is fully tested before being shipped. The rubber/polyurethane/ceramic and composite liners are manufactured with precision and attention is paid to the minutest of details from concept to commission.

Concept Parameters

These operating parameter specifics are considered at the concept stage of designing Tega's Innovative Combi Liners:

- Method of feeding
- Material handled and shape
- Capacity tons per hour
- Height of transfer
- Bulk Density of materials handled
- Maximum lump size
- Temperature
- Moisture content
- Hardness of material
- Equipment Profile

WHAT MAKES TEGA WEAR & FLOW SOLUTIONS UNIQUE?

Utility	Parameter
Place Utility	• Availability at doorstep pan-India and abroad
Time Utility	• Easy installation • Less shutdown and breakdown time • Improved material handling
Possession Utility	• Easy purchase and acceptance (industry proven products) • Customer gets decision making and installation support for other bulk material handling problems
Subsequent Cost	• Better asset life compared to usage of other accessories
Savings	• Less ore wastage and less manpower required



RESEARCH & DEVELOPMENT FOR TOTAL : Solution™

Tega's greatest strengths lie in more than 3 decades of experience working with clients and its dedication to continuous research and innovation. Tega Solutions are completely customized, incorporating learning from up-to-date principles, and the use of state-of-the-art proprietary software programs to deliver solutions that meet your immediate business needs as well as to ensure long-term success.

Tega's Solution Delivery Model is focused on Audits, Research & Development with value addition-oriented customer interaction. Workplace competence is an integral and highly visible part of Tega's Research Policy and efforts are aimed at:

- Creating Next Generation products
- Developing new technologies
- Maximizing the efficiency of existing plants and equipment
- Savings in cost-per-ton of material handled
- Creating new models and efficient solutions through action-based methods in collaboration with its partners.

Tega's active interface with institutes of global repute to develop new technology and innovative processes, keep it ahead of the rest of the industry.

Tega's team of engineers frequently visit customer sites, to find solutions to the problems faced by its customers. Tega's extensive research activities at its advanced Research & Development centres and culture of innovation keeps it at the forefront of the Bulk Material handling industry.



DEM & FEA Technology



Impact Effect on Steel Liner

Johnson Holmquist Crack Softening Model

**SEPARATION
SOLUTIONS**



**GRINDING MILL
SOLUTIONS**



**CONVEYING
SOLUTIONS**

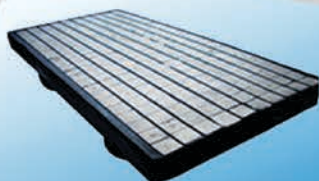


**SCREENING
SOLUTIONS**




tega
TOTAL : Solution™

**MATERIAL
TRANSFER
SOLUTIONS**



**SCREENING
SOLUTIONS**



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