



**TRANSMUTE<sup>®</sup>**

**A PRODUCT BY BLSX LIMITED AND TERRAMET VENTURES LLP.**

**Transmute** is an innovative **product** born from a strategic **collaboration** between **Terramet** and **BLSX**—an established company with over 35 years of manufacturing excellence and a strong global presence.



**Basker Prabhakar**  
Managing Director,  
Terramet Ventures



**Unmesh Trivedi**  
Managing Director,  
BLSX Limited



# TRANSMUTE

FLEXIBILITY THAT OUTPERFORMS.  
RELIABILITY THAT TRANSCENDS.

## THE RIGHT FLEXIBILITY. IN THE RIGHT PLACES.

TRANSMUTE is a high-performance rubber-based reinforced hose system engineered for the most demanding mining, slurry, dredging, and industrial applications.

Developed for high-wear and high-movement sections of your pipeline, TRANSMUTE delivers longer life, fewer failures, and lower total cost of ownership—where it matters most.



**TARGETED SOLUTION.  
MAXIMUM IMPACT.**

Optimize the most failure-prone sections of your transport system, not the entire

## BUILT TO MOVE MORE. BUILT TO LAST LONGER.



**RESISTS  
EXTREME WEAR**

Engineered for abrasive slurries and harsh operating conditions.



**ABSORBS MOVEMENT  
& VIBRATION**

Handles dynamic loads, line movement, and flexing that rigid pipes cannot.



**REDUCES DOWNTIME  
& MAINTENANCE**

Fewer failures. Shorter shutt downs. Lower operational disruption.



**LOWER LIFECYCLE  
COSTS**

Extended service life and optimized performance where it delivers the most value.



**MINING**



**SLURRY**



**DREDGING**



**ALLIED  
INDUSTRIES**

# Where Conventional Pipelines Fall Short

Steel and other rigid pipeline systems are widely used for bulk slurry transport, but they are often less efficient in high-abrasion and high-movement zones. In such areas, wear rates increase rapidly and maintenance intervention becomes more frequent.

Replacement of rigid pipeline sections usually requires shutdowns, welding, alignment work, heavy handling equipment, and a larger maintenance crew. These requirements increase turnaround time and raise the true cost of ownership.

Rigid systems are also less suitable for moving dredging operations, slurry routes, pump discharge sections with vibration, and changing mine layouts where routing flexibility is important.

# TRANSMUTE

## Strengths and Advantages

### Product Strengths

- **High abrasion resistance:** Designed for demanding slurry service where internal wear is a major cause of failure.
- **High-pressure slurry transport:** Suitable for operating environments that require dependable pressure handling within designed limits.
- **Flexible deployment:** Useful in dynamic layouts, temporary routing, dredging sections, and vibration-prone discharge areas
- **Quick installation and replacement:** Reduces outage time compared with rigid systems that need cutting, welding and heavier handling

### Operational Advantages

- **Reduced downtime:** Sections can be replaced in hours instead of days in many operating cases.
- **Higher wear life in slurry zones:** The product is suited to critical zones where abrasion drives frequent replacement.
- **Improved flexibility:** The system adapts more easily to terrain, movement, and route changes.
- **Faster deployment:** Installation is simpler and usually requires less intrusive field work than rigid piping
- **Better maintenance planning:** Predictable wear behavior and modular replacement improve shutdown co

# Technical Comparison

Parameter	Rubber Hose (Transmute)	Steel Pipeline	Concrete Pipeline
Flexibility	Very high	None	None
Pressure capacity	High within operating limits	Very high	High
Abraion resistance	Excellent	Moderate ofen needs lining	Moderate
Corrosion resistance	Excellent	Poor without coating	Good
Shock absorpction	Excellent	None	None
Suitability for movement	Excellent	Poor	Not applicable
Installation time	Fast	Slow	Very slow
Reoair or replacement	Easy	Difficult	Very Difficult

## Get in Touch

We're here to help you optimize your operations and unlock greater efficiency. with **TRANSMUTE**.

## Reach Us

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