



IntegriMat

Engineered Materials. Integrated Solutions.

IntegriMat Inc.

Surface Engineering Solutions Division

ENGINEERED FOR A TOUGHER TOMORROW

Vacuum-Brazed Tungsten Carbide Wear Solutions

Engineered Wear Protection
for Severe Abrasion, Erosion & Impact

Custom-designed carbide-to-steel solutions
for extended component life.



EXCEPTIONAL
WEAR RESISTANCE



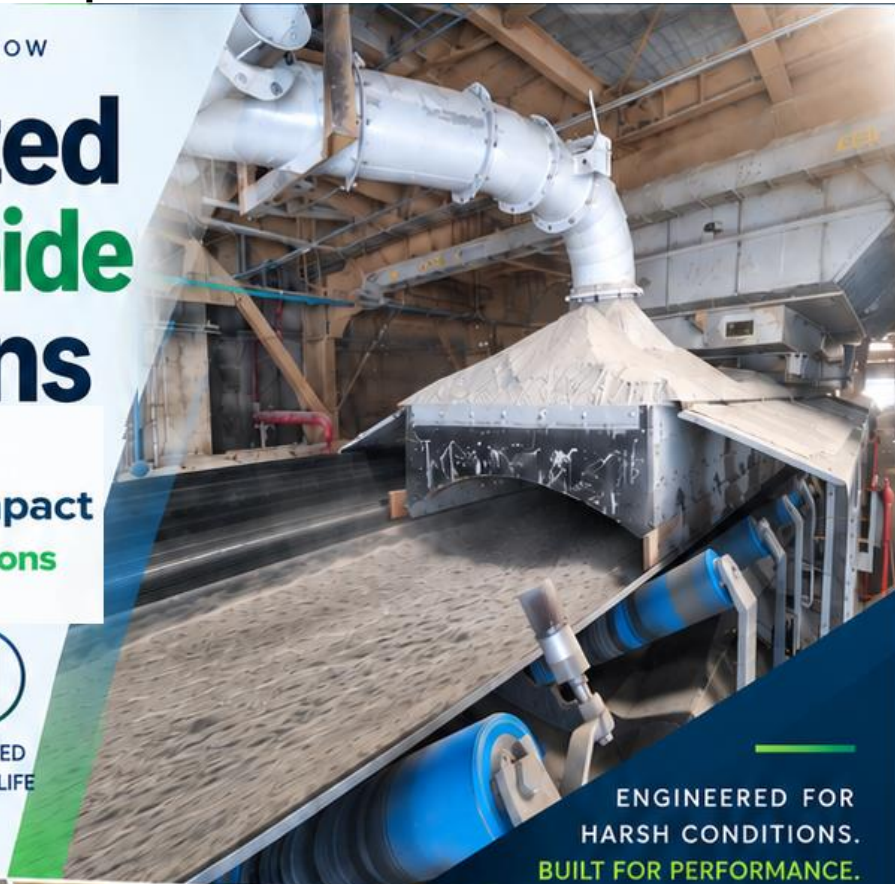
IMPACT
RESISTANCE



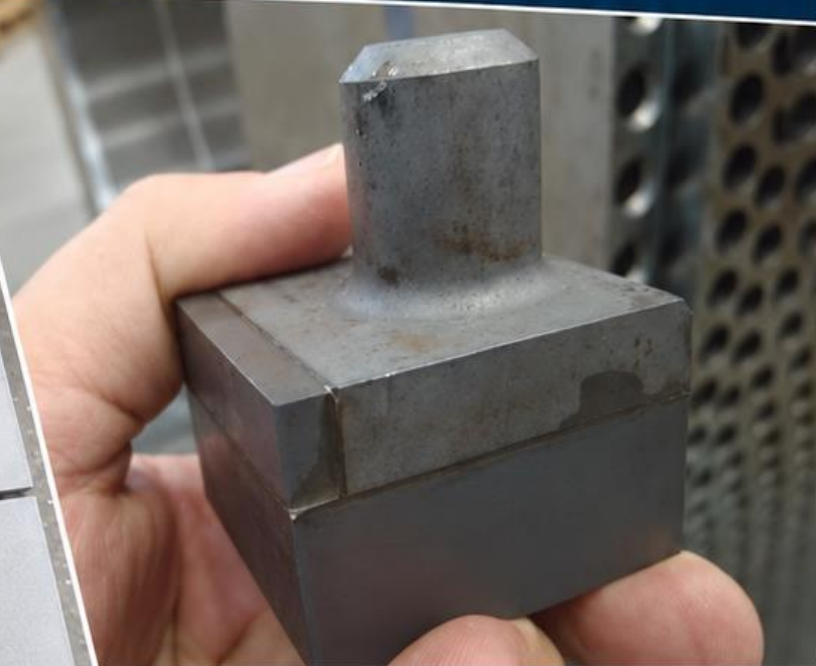
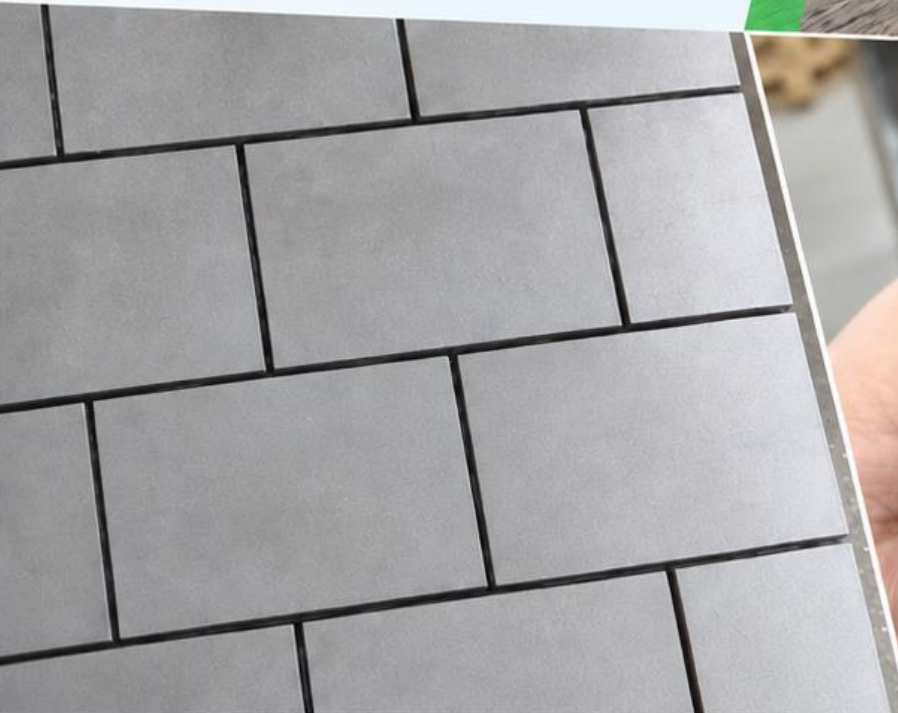
RELIABLE
BONDING



EXTENDED
SERVICE LIFE



ENGINEERED FOR
HARSH CONDITIONS.
BUILT FOR PERFORMANCE.



MINING &
MINERAL PROCESSING



CRUSHING &
COMMINUTION



BULK MATERIAL
HANDLING



MIXING &
PROCESSING



CEMENT &
AGGREGATES



RECYCLING &
WASTE HANDLING



OIL & GAS



AGRICULTURE

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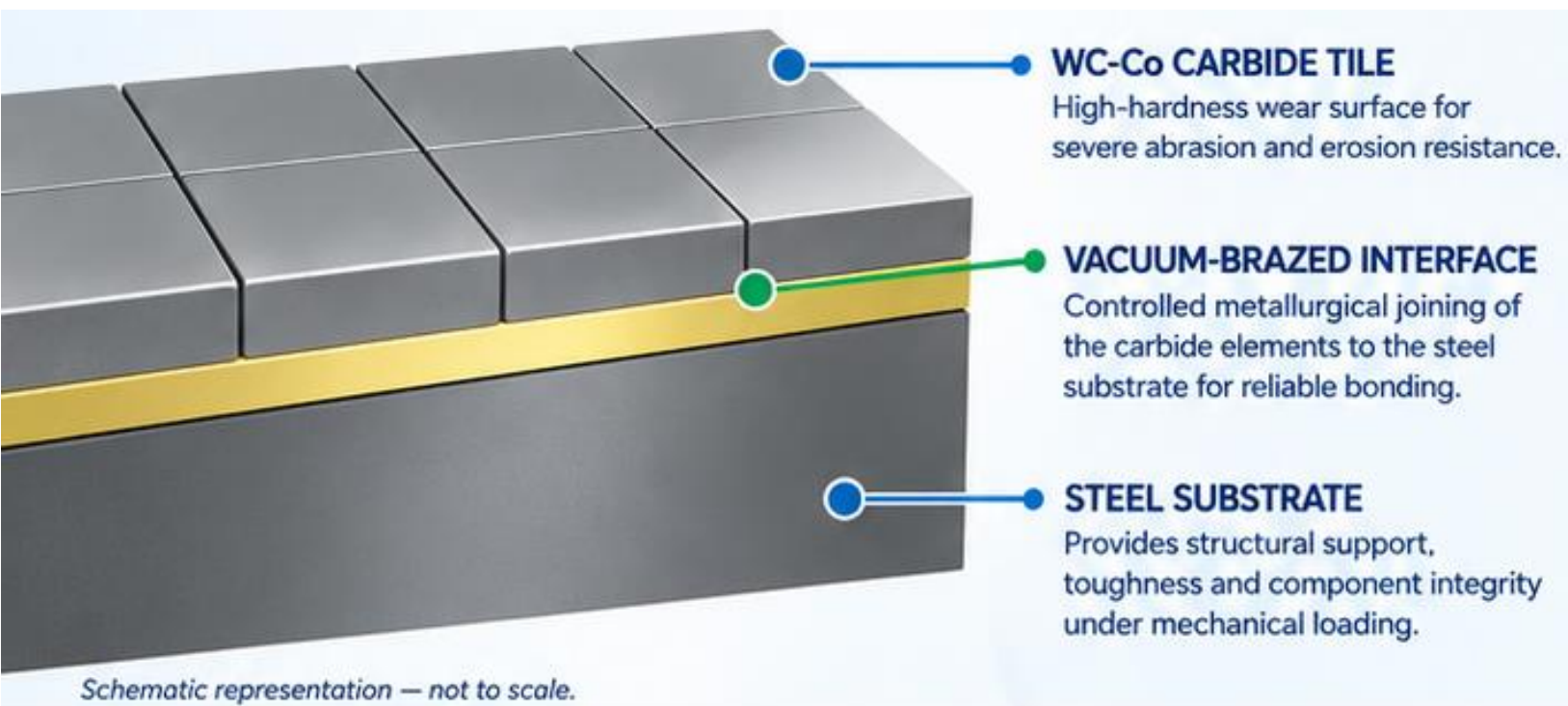
ENGINEERED WEAR PROTECTION

Combining Wear Resistance, Structural Toughness & Reliable Bonding

IntegriMat vacuum-brazed tungsten carbide wear solutions combine cemented tungsten carbide (WC-Co) with an engineered steel substrate to protect components exposed to severe abrasion, erosion and mechanical loading.

WC-Co provides the hard, wear-resistant working surface, while the steel substrate delivers the structural strength and toughness required to support the component in service. Carbide tiles, blocks or inserts are strategically positioned in critical wear zones and metallurgically joined to the steel substrate through a controlled vacuum-brazing process.

The resulting composite construction concentrates wear protection where it is needed most, combining wear resistance, impact tolerance, structural integrity and extended service life.





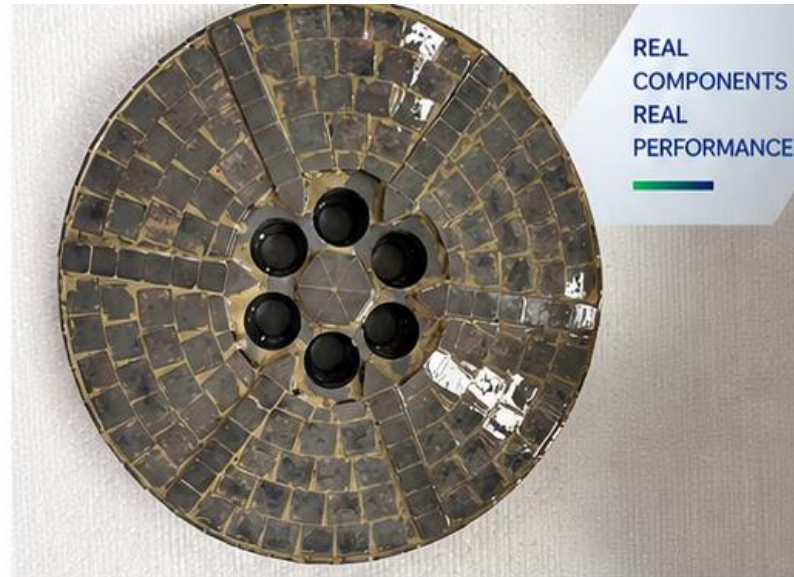
WHY VACUUM-BRAZED TUNGSTEN CARBIDE?

Engineered for Severe Wear Conditions

Components handling abrasive ores, minerals, aggregates and other hard particles are exposed to severe abrasion, erosion and localized impact. Under demanding conditions, conventional steel surfaces progressively lose material, affecting component geometry and increasing maintenance requirements.

IntegriMat vacuum-brazed wear solutions place high-hardness WC-Co carbide elements in critical wear zones, supported by an engineered steel substrate for strength and toughness.

Controlled vacuum brazing **metallurgically joins** the carbide elements to the steel substrate, creating an integrated wear system that combines the wear resistance of cemented tungsten carbide with the structural advantages of steel.



REAL
COMPONENTS
REAL
PERFORMANCE

01 | HIGH-HARDNESS WEAR SURFACE



WC-Co cemented carbide provides the hard working surface required to resist severe abrasion and erosive wear.

Strategically positioned carbide tiles, blocks or inserts allow the most wear-intensive areas of a component to receive concentrated protection.

02 | CONTROLLED VACUUM BRAZING



Vacuum brazing provides controlled metallurgical joining between the carbide elements and the steel substrate.

The controlled brazing environment supports consistent joining while allowing complex carbide layouts and application-specific wear-zone protection.

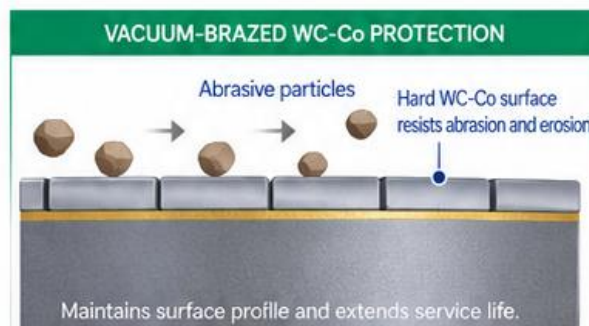
03 | STRUCTURAL STEEL SUPPORT



The steel substrate provides the structural strength and toughness required to support the wear-resistant carbide elements.

This allows the component to withstand mechanical loading while carbide protection is concentrated at the working surface.

Wear Mechanism and Protection



Key Advantages Over Conventional Materials

- Superior wear resistance
- Better impact resistance
- Metallurgical bonding
- Application-specific design
- Reduced maintenance and downtime
- Longer service life

Designed to reduce replacement frequency, downtime and maintenance cost in severe wear applications.



HIGH-HARDNESS WC-Co + CONTROLLED VACUUM BRAZING + STRUCTURAL STEEL = ENGINEERED WEAR PERFORMANCE

Designed to extend component service life and reduce wear-related maintenance in demanding applications.



IntegriMat

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IntegriMat Inc.

Surface Engineering Solutions Division

WEAR SOLUTION PORTFOLIO

Engineered for Harsh Environments. Built for Longer Life.

IntegriMat provides high-performance wear solutions for mining, mineral processing, cement, power generation and other heavy industries. Our products combine advanced materials, metallurgical expertise and application experience to deliver superior wear resistance, reduced downtime and lower operating costs.

TOUGHER
MATERIALS
HIGHER
PRODUCTIVITY
LOWER
LIFETIME COST

01 Intensive Mixers Blade



Tungsten carbide and hardfacing solutions for intensive mixers in mining, concrete and industrial applications, offering exceptional wear resistance and extended service life.

02 Wear Liner



Tungsten carbide, ceramic and composite wear liners for chutes, hoppers, tanks and other high-wear areas, designed to withstand severe abrasion and impact conditions.

03 Refractory Brick Mold



Wear-resistant molds with tungsten carbide and hardfacing for refractory brick production, providing high dimensional accuracy and long service life in abrasive environments.

04 VSI Crusher Spare Parts



Tungsten carbide and wear-resistant components for VSI crushers, including rotor tips, distribution plates and wear elements, engineered for maximum durability and consistent performance.

05 Secondary Belt Cleaners



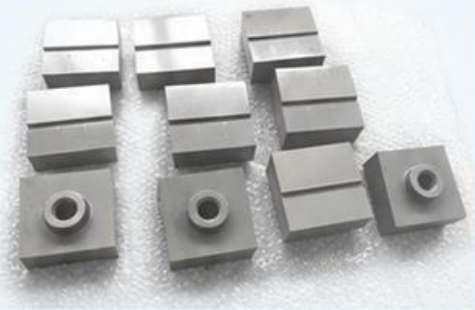
Vacuum-brazed tungsten carbide secondary belt cleaners in P-Type, R-Type, H-Type and custom configurations, designed for efficient belt cleaning and reduced material carry-back.

06 Carbide Liner for Ceramic Tile Mold



Tungsten carbide liners for ceramic tile molds, offering high wear resistance, smooth surface finish and consistent product quality in demanding production environments.

07 Crusher Blade



Tungsten carbide crusher blades for various types of crushers, designed to resist severe abrasion and impact, ensuring longer service life and reduced maintenance costs.



SUPERIOR
WEAR RESISTANCE



LONGER
SERVICE LIFE



CUSTOMIZED
DESIGN & SOLUTIONS



LOWER
OPERATING COSTS



INTENSIVE MIXER BLADES

Engineered for Demanding Mixing Applications

TOUGHER
MATERIALS
HIGHER
PRODUCTIVITY
LOWER
LIFETIME COST



IntegriMat's intensive mixer blades are vacuum-brazed carbide-steel solutions engineered for thorough blending of highly abrasive materials such as hexamine, graphite, resin powder, alumina oxide and sintered magnesite. Our blades deliver exceptional wear resistance, consistent mixing quality and reduced downtime in demanding environments.

We offer fully customizable blade designs to match your mixer type, operating conditions and performance goals.

MATERIALS HANDLED



Hexamine



Graphite



Resin Powder



Alumina Oxide



Sintered Magnesite

Designed for intensive mixing of abrasive powders and raw materials where conventional steel blades can experience rapid wear.

WE SUPPLY SUCH AS:

- ✓ Intensive Mixers Blade
- ✓ Mixing Blade
- ✓ Rotor Tool
- ✓ Mixer Wearing Parts
- ✓ Beater
- ✓ Knifelike
- ✓ Mixer Bottom Beater
- ✓ Concrete Mixer Blades
- ✓ Intensive Mixing Blades

TYPICAL MIXER BLADES



APPLICATIONS



REFRACTORY PRODUCTION
Alumina, magnesite, graphite, resin systems and other abrasive refractory mixes.



CEMENT & MINERAL PROCESSING
Mixing of abrasive mineral and cementitious materials.



CHEMICAL PROCESSING
Mixing of selected powders, solids and process materials.



CUSTOM ENGINEERING

Tailored to Your Mixer and Process

- ✓ Blade geometry
- ✓ Carbide grade
- ✓ Carbide coverage
- ✓ Wear-zone protection
- ✓ Steel substrate design
- ✓ Application-specific configuration



HIGH WEAR
RESISTANCE



CONSISTENT
MIXING QUALITY



CUSTOMIZED
SOLUTIONS



REDUCED
DOWNTIME



CONVEYOR WEAR SOLUTIONS

Engineered Protection for Abrasive Material Transfer

Conveyor and transfer systems handling abrasive ores and minerals are exposed to continuous sliding wear at critical material-contact surfaces. IntegriMat vacuum-brazed tungsten carbide solutions provide localized wear protection for these high-wear areas while retaining the structural advantages of a steel substrate.

RELIABLE
CONVEYING
FOR TOUGH
MINING
ENVIRONMENTS



Conveyor skirt liner with vacuum-brazed tungsten carbide tiles (field application)

01 | CONVEYOR DRAG PLATES

Vacuum-brazed WC-Co wear elements provide concentrated protection for drag plates operating under severe abrasive conditions.



02 | TRANSFER-CONVEYOR LINERS

Engineered carbide protection for high-wear surfaces at material transfer and transition points.



03 | CONVEYOR SKIRT LINERS

Wear-resistant liner solutions for skirt areas exposed to continuous contact with abrasive bulk materials.



04 | CUSTOM CONVEYOR COMPONENTS

Application-specific carbide layouts and component geometries engineered around operating conditions and critical wear zones.



Drag plates installed on conveyor (example)



Conveyor skirt liner application



ABRASIVE
MATERIAL FLOW



CRITICAL
CONTACT ZONES



LOCALIZED
CARBIDE PROTECTION



EXTENDED
COMPONENT SERVICE LIFE

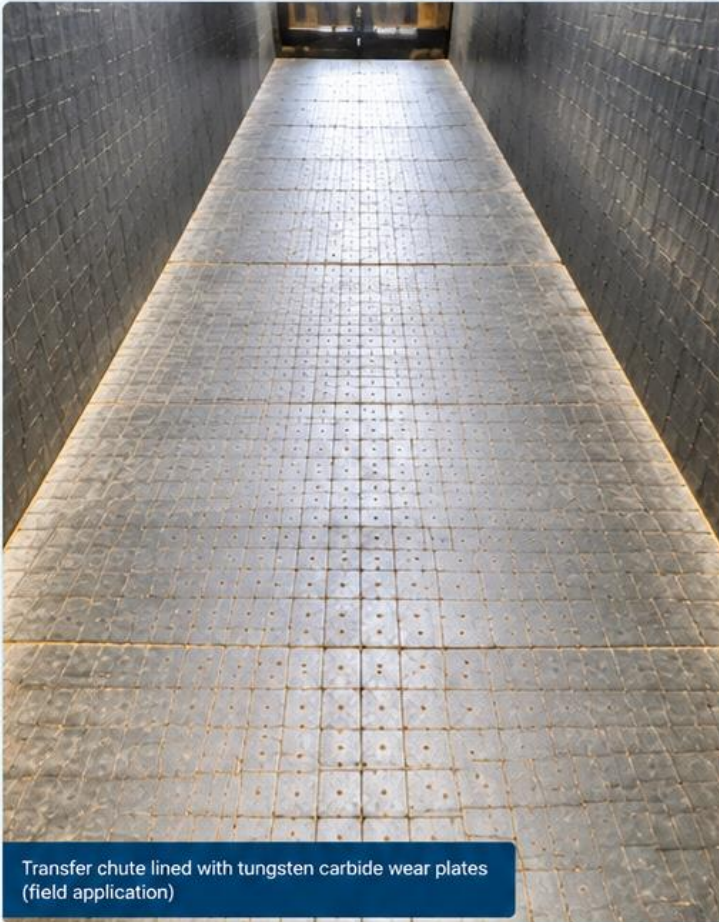


TUNGSTEN CARBIDE WEAR LINERS & WEAR PLATES

Engineered Surface Protection for Severe Sliding Abrasion

IntegriMat tungsten carbide wear liners provide engineered protection for surfaces exposed to severe sliding abrasion and impact loading. Designed for transfer points, hoppers, ore-handling systems and other high-wear areas, our liner solutions are configured around component geometry, material flow conditions and critical wear zones.

RELIABLE
SOLUTIONS
FOR TOUGH
MINING
ENVIRONMENTS



Transfer chute lined with tungsten carbide wear plates (field application)

01 TRANSFER CHUTE LINERS

Wear protection for chute surfaces exposed to continuous abrasive material flow.



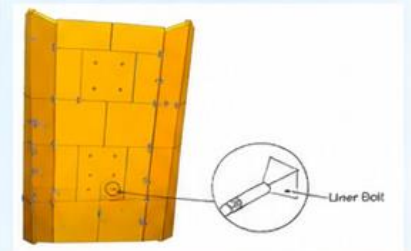
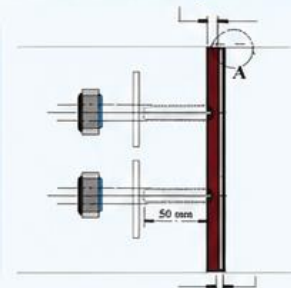
02 HOPPER & ORE-HANDLING LINERS

Wear-resistant liner solutions for hoppers and ore-handling equipment exposed to continuous abrasive material flow.



03 DEFLECTORS & WEAR PLATES

Localized tungsten carbide protection for high-wear surfaces subjected to sliding abrasion and mechanical loading.



APPLICATIONS OF WEAR LINERS

Designed for severe sliding abrasion and medium-impact conditions in demanding matdng environments. Typical applications include:

- | | | |
|------------------------|-------------------|--------------------------|
| ✓ Chutes | ✓ Liner plates | ✓ Conveyor drag plates |
| ✓ Deflector chutes | ✓ Hoppers | ✓ HPGR feed cheek plates |
| ✓ Ore handling systems | ✓ Conveyor skirts | ✓ HPGR flange protection |



SEVERE SLIDING
ABRASION



MODERATE IMPACT



CUSTOM CARBIDE
LAYOUT



APPLICATION-SPECIFIC
DESIGN



REFRACTORY BRICK MOLD

Precision-Engineered Carbide Liners for Refractory Production

IntegriMat refractory brick mold liners provide advanced wear protection for demanding refractory production environments. Designed for high-pressure forming processes, our tungsten carbide liner solutions improve dimensional accuracy, surface quality and mold service life under severe abrasive conditions.

RELIABLE
SOLUTIONS
FOR TOUGH
MINING
ENVIRONMENTS



Refractory brick mold liner assembly with tungsten carbide wear plates

01 CARBIDE LINED MOLDS

Wear-resistant carbide liner solutions for refractory brick molds exposed to repeated friction and high forming pressure.



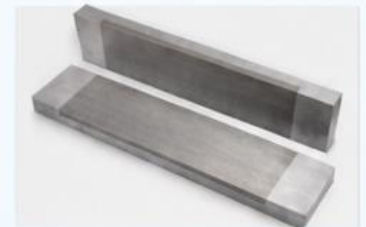
02 CUSTOM MOLD LINERS

Application-specific carbide liner designs manufactured according to mold geometry, production requirements and operating conditions.



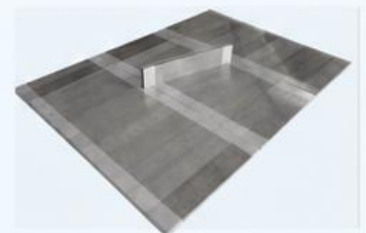
03 HIGH-WEAR CONTACT SURFACES

Tungsten carbide protection concentrated at critical mold areas to improve wear resistance and maintain product consistency.



04 COMPLETE MOLD SOLUTIONS

Integrated solutions including liner design, material selection and precision manufacturing for extended mold performance.



APPLICATIONS OF REFRACTORY BRICK MOLDS

Suitable for a wide range of refractory manufacturing processes, including:

- ✓ Steel smelting refractory production
- ✓ Glass manufacturing refractory products
- ✓ Cement industry refractory components
- ✓ High-pressure refractory forming processes



HIGH DIMENSIONAL
ACCURACY



ABRASION RESISTANCE



LONGER MOLD LIFE



CUSTOM ENGINEERING



VSI CRUSHER SPARE PARTS

Engineered Wear Protection for High-Impact Crushing Applications

IntegriMat VSI crusher spare parts are designed for demanding aggregate and mining applications where impact resistance, abrasion performance and reliable operation are critical. Tungsten carbide reinforced components provide enhanced wear protection for rotor assemblies and crusher wear zones, helping extend service life and reduce maintenance frequency.

RELIABLE
SOLUTIONS
FOR TOUGH
MINING
ENVIRONMENTS



01 VSI ROTOR TIPS

Tungsten carbide rotor tips are engineered to withstand high-velocity impact and severe abrasion during crushing operations. Customized carbide grades are selected according to material size, hardness and operating conditions.



02 CARBIDE WEAR PLATES

Carbide wear plates provide localized protection for critical crusher surfaces exposed to continuous impact and abrasive material flow.



03 CRUSHER HAMMERS & WEAR COMPONENTS

Vacuum-brazed carbide crusher hammers combine high wear resistance with reliable structural performance for demanding crushing environments.



04 CUSTOM VSI COMPONENTS

Application-specific designs, dimensions and carbide configurations are developed according to customer requirements and operating conditions.



APPLICATIONS OF VSI CRUSHER SPARE PARTS

Designed for high-impact and high-abrasion conditions in aggregate and mining operations.

Typical applications include:

- ✓ Aggregate production
- ✓ Mining and mineral processing
- ✓ Sand making
- ✓ Construction materials
- ✓ Quarry operations
- ✓ Rock crushing systems



HIGH IMPACT
RESISTANCE



LONGER SERVICE LIFE



REDUCED DOWNTIME



CUSTOM ENGINEERING



SECONDARY BELT CLEANERS

Tungsten Carbide Solutions for Efficient Conveyor Belt Cleaning

IntegriMat secondary belt cleaners are engineered for demanding mining and bulk material handling applications where material carry-back, belt contamination and maintenance downtime are critical challenges. Vacuum-brazed tungsten carbide scraper blades provide high wear resistance, strong bonding performance and reliable cleaning efficiency under severe operating conditions.

RELIABLE
SOLUTIONS
FOR TOUGH
MINING
ENVIRONMENTS



Tungsten carbide secondary belt cleaner designed for abrasive mining conveyor systems.

PRODUCT FEATURES

HIGH CLEANING EFFICIENCY

- ✓ Tungsten carbide scraper elements provide excellent wear resistance.
- ✓ Vacuum brazing ensures strong bonding and reliable operation.
- ✓ Compatible with demanding conveyor belt conditions.

COST-EFFECTIVE PERFORMANCE

- ✓ Durable carbide construction reduces replacement frequency.
- ✓ Lower maintenance requirements improve overall operating efficiency.

TECHNICAL SPECIFICATIONS

Parameter	Details
Material	Tungsten carbide + stainless steel
Hardness	Up to 92.5 HRA
Bonding Method	Vacuum brazing
Operating Temperature	Application dependent
Corrosion Resistance	High
Scraper Types	P-Type, R-Type, H-Type
Size	Customized according to requirements

01 P-TYPE BELT CLEANERS

Forward-oriented carbide blade configuration designed for efficient material removal while maintaining continuous belt contact.



02 R-TYPE BELT CLEANERS

Balanced scraper design providing reliable cleaning performance for different conveyor operating conditions.



03 H-TYPE BELT CLEANERS

Heavy-duty carbide scraper configuration developed for highly abrasive materials and demanding mining environments.



04 CUSTOM CONFIGURATIONS

Customized carbide scraper solutions manufactured according to conveyor design, belt width and application requirements.



APPLICATIONS

- ✓ Iron ore handling
- ✓ Copper mining operations
- ✓ Coal conveyors
- ✓ Quarry operations
- ✓ Aggregate processing
- ✓ Bulk material transfer systems



HIGH WEAR
RESISTANCE



EFFECTIVE CLEANING



LOWER MAINTENANCE



CUSTOM SOLUTIONS

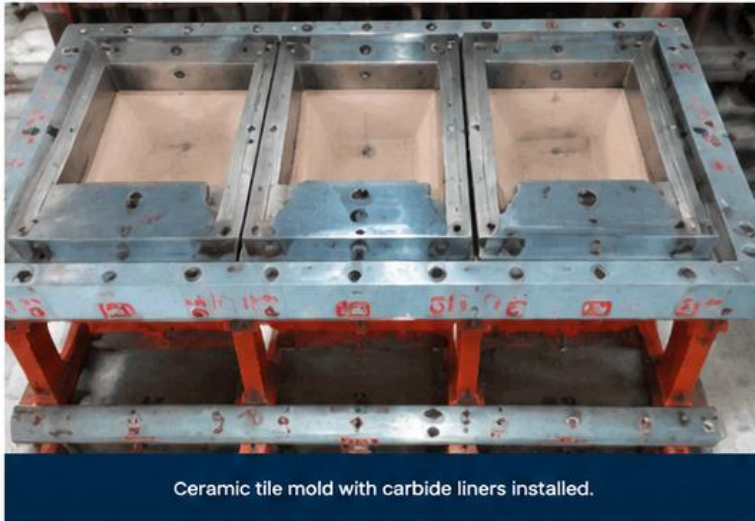


CARBIDE LINER FOR CERAMIC TILE MOLD

Wear-Resistant Solutions for High-Precision Ceramic Tile Production

IntegriMat carbide liners for ceramic tile molds are designed to improve mold durability, dimensional stability and production consistency in demanding ceramic forming applications. Tungsten carbide liners provide excellent resistance against abrasion and wear during repeated pressing cycles, helping extend mold service life and reduce maintenance requirements.

RELIABLE
SOLUTIONS
FOR TOUGH
INDUSTRIAL
ENVIRONMENTS



Ceramic tile mold with carbide liners installed.

PRODUCT FEATURES

HIGH WEAR RESISTANCE

- ✓ Cemented carbide provides excellent abrasion resistance.
- ✓ Maintains dimensional accuracy during repeated production cycles.
- ✓ Suitable for high-pressure ceramic forming operations.

RELIABLE PRODUCTION PERFORMANCE

- ✓ Improves mold service life.
- ✓ Reduces downtime caused by mold wear.
- ✓ Supports consistent ceramic tile quality.
- ✓ Easy to install or customize according to specific needs.

TECHNICAL SPECIFICATIONS

Parameter	Details
Material	Nickel-bonded cemented tungsten carbide (WC-Ni)
Binder System	Ni binder for higher corrosion resistance and improved toughness
Hardness	Up to 92 HRA
Transverse Rupture Strength (TRS)	Up to 2500 MPa
Grain Size	0.6 - 1.0 μm
Manufacturing Method	Precision carbide liner production
Design	Customized according to drawings
Installation	Mold-specific liner configuration

01 FLAT CARBIDE LINER PLATES

Standard tungsten carbide liner plates for ceramic tile molds, providing high wear resistance, dimensional stability and smooth forming surfaces.



02 PROFILED CARBIDE LINERS

Customized carbide liner designs manufactured according to mold geometry and ceramic tile profile requirements.



03 SEGMENTED LINER SYSTEMS

Modular carbide liner segments designed for easier installation, replacement and optimized wear protection.



04 CUSTOM MOLD SOLUTIONS

Customized carbide liner systems manufactured according to customer drawings, mold geometry and specific production requirements. IntegriMat provides engineered solutions for complex shapes, dimensions and wear conditions.



DESIGNED ACCORDING TO
CUSTOMER REQUIREMENTS
OEM / CUSTOM MANUFACTURING

APPLICATIONS

- ✓ Ceramic wall tiles
- ✓ Floor tiles
- ✓ Ceramic roof tile production systems
- ✓ High-volume tile production systems
- ✓ Other ceramic products



EXTENDED
MOLD LIFE



HIGH WEAR
RESISTANCE



CONSISTENT
TILE QUALITY



CUSTOM
ENGINEERING



TUNGSTEN CARBIDE CRUSHER BLADES

Engineered for High-Impact Crushing and Recycling Applications

IntegriMat tungsten carbide crusher blades are designed for demanding crushing and recycling environments where severe impact and abrasive materials accelerate conventional wear. Using impact-optimized tungsten carbide grades and advanced vacuum brazing technology, our crusher blades provide excellent wear resistance, reliable bonding strength and extended service life in mining, recycling and industrial crushing applications.

WEAR
PROTECTION
FOR TOUGHER
INDUSTRIES

ENGINEERED
SOLUTIONS
REAL RESULTS



VSI crusher equipped with tungsten carbide crusher blades.

TYPICAL APPLICATIONS

- ✓ Mining and mineral processing
- ✓ Scrap metal recycling
- ✓ Copper and non-ferrous metal crushing
- ✓ Construction and demolition recycling
- ✓ Sand-making equipment
- ✓ Industrial shredding and crushing systems
- ✓ Other heavy-duty crushing applications

KEY BENEFITS



High Impact Resistance

Optimized carbide grades provide excellent resistance against repeated impact loading.



Superior Wear Performance

Tungsten carbide protection extends blade life under severe abrasive conditions.



Reliable Carbide Bonding

Vacuum brazing technology ensures strong carbide attachment and operational reliability.



Customized Engineering

Blade geometry and carbide grade selection are optimized according to operating conditions.



01 CRUSHER BLADE COMPONENTS

Customized tungsten carbide reinforced components designed for high-impact crushing and severe wear conditions.



02 CARBIDE REINFORCED CUTTING EDGES

Carbide-protected cutting surfaces engineered to improve wear resistance and maintain crushing efficiency.



03 CUSTOM CRUSHER PARTS

Application-specific carbide components manufactured according to equipment design and operating requirements.



HIGH IMPACT
RESISTANCE



EXTENDED
SERVICE LIFE



CUSTOMIZED
DESIGN



LOWER
MAINTENANCE COST



CARBIDE GRADE SELECTION & ENGINEERING GUIDE

Selecting the Right Carbide Grade for Maximum Wear Life

IntegriMat selects tungsten carbide grades based on the balance between wear resistance, impact toughness, corrosion resistance and operating conditions. By controlling cobalt binder content, grain size, hardness, density and transverse rupture strength (TRS), carbide performance can be optimized for specific industrial applications.

RELIABLE
SOLUTIONS
FOR TOUGH
MINING
ENVIRONMENTS

TYPICAL PROPERTIES OF WC-Co CEMENTED CARBIDE GRADES

ISO Equivalent Grade	Cobalt Binder (wt. %)	Grain Size (µm)	Density (g/cm³)	Hardness (HRA)	TRS (MPa)	Typical Characteristics	Common Applications
K10	6	0.8 - 1.2	14.85 - 15.05	91.5	2600	Maximum hardness, excellent wear resistance	Severe sliding abrasion, wear liners, chutes
K20	8	1.0 - 1.5	14.65 - 14.85	90.0	2800	Good wear resistance with improved toughness	General wear applications, conveyor components, liners
K30	8	1.5 - 2.0	14.55 - 14.75	88.5	3000	Balanced hardness and toughness	Abrasion with moderate impact, ore handling equipment
K20 - K30 (Fine Grain)	10	0.6 - 0.8	14.40 - 14.55	91.5	3500	High hardness with excellent strength and edge stability	High wear and impact areas, crusher parts, mining equipment
K30 - K40	11	1.5 - 2.0	14.30 - 14.50	88.5	3500	Good toughness, impact resistance	Heavy-duty wear and impact conditions
K40	11	2.0 - 3.0	14.20 - 14.40	87.5	3800	High toughness, excellent impact resistance	High impact abrasion, large particle size, mining and mineral processing
K40 - K50	15	1.5 - 2.5	13.95 - 14.15	88.0	3800	Maximum toughness, impact resistance	Extreme impact conditions, heavy-duty crushing applications

GRADE SELECTION MAP

Match the carbide grade to your operating conditions



QUICK SELECTION GUIDE

Operating Condition	Recommended Grade
Severe sliding abrasion, low impact	K10 - K20
General wear, moderate impact	K20 - K30
High impact, heavy-duty wear	K30 - K40
Extreme impact and shock loading	K40 - K50



Engineering Support for Maximum Wear Life

Need help selecting the right carbide grade?
Let us assist you in choosing the optimal carbide solution based on your operating conditions and application requirements.

Carbide grade selection depends on wear mechanism, impact severity and operating conditions. Final selection should be validated for each application.



IntegriMat

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IntegriMat Inc.

Surface Engineering Solutions Division

QUALITY ASSURANCE & ENGINEERED SOLUTIONS

From Application Challenge to Reliable Performance

At IntegriMat, we combine engineering expertise, qualified OEM manufacturing partners and systematic inspection procedures to deliver high-performance wear solutions. Every product is manufactured to defined specifications and verified through standardized testing to ensure consistent quality, dimensional accuracy and reliable carbide-to-steel bonding.

RELIABLE
SOLUTIONS
FOR TOUGH
MINING
ENVIRONMENTS

INSPECTION CAPABILITIES

DOCUMENTED. TRACEABLE. RELIABLE.



Density Measurement

Confirms carbide composition consistency and grade verification (e.g., Archimedes method).



Hardness Testing

Verifies wear resistance and compliance with specified grade requirements (e.g., HRA, HV).



TRS / Bending Strength

Evaluates carbide toughness and resistance to fracture (Transverse Rupture Strength).



Metallographic Examination

Reviews carbide structure, grain size distribution and brazing interface quality (microstructure analysis).



Magnetic Properties

Supports material identification and grade verification through magnetic response measurement.



Dimensional Inspection

Ensures compliance with customer drawings, dimensional tolerances and surface finish requirements.



Ultrasonic Testing (UT)

Evaluates internal integrity and detects potential defects in critical components.

FROM APPLICATION CHALLENGE TO ENGINEERED SOLUTION

A STRUCTURED APPROACH FOR MAXIMUM WEAR LIFE.



Application Review

Understand operating conditions, wear mechanisms and customer requirements.



Wear Analysis

Evaluate wear patterns, material behavior and performance targets.



Carbide Grade Selection

Select optimal carbide grade based on abrasion, impact level and service conditions.



Geometry & Layout

Design geometry, carbide layout and brazing configuration for maximum performance.



Manufacturing (Including Vacuum Brazing)

Produced by qualified manufacturing partners using controlled processes.



Quality Inspection

Test and verify according to established inspection procedures and specifications.



Delivery

Supply with full documentation for traceability and customer confidence.



YOUR PARTNER IN WEAR SOLUTIONS

IntegriMat delivers engineering-driven wear solutions through qualified manufacturing partners, rigorous quality assurance and a commitment to long-term performance.

CONSISTENT QUALITY.
RELIABLE PERFORMANCE.
LONGER SERVICE LIFE.



MATERIAL
EXPERTISE



VACUUM BRAZING
TECHNOLOGY



APPLICATION-BASED
DESIGN



LONGER SERVICE LIFE

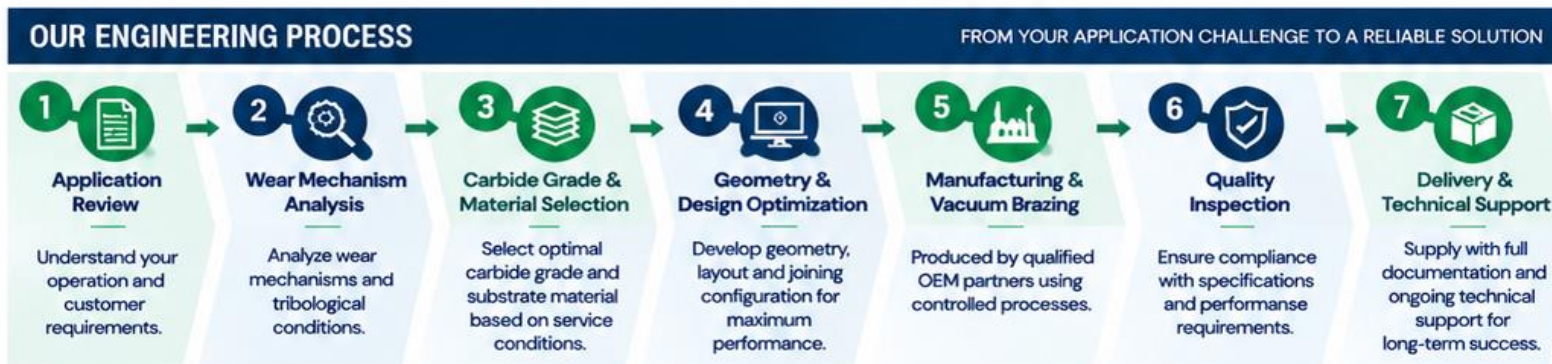
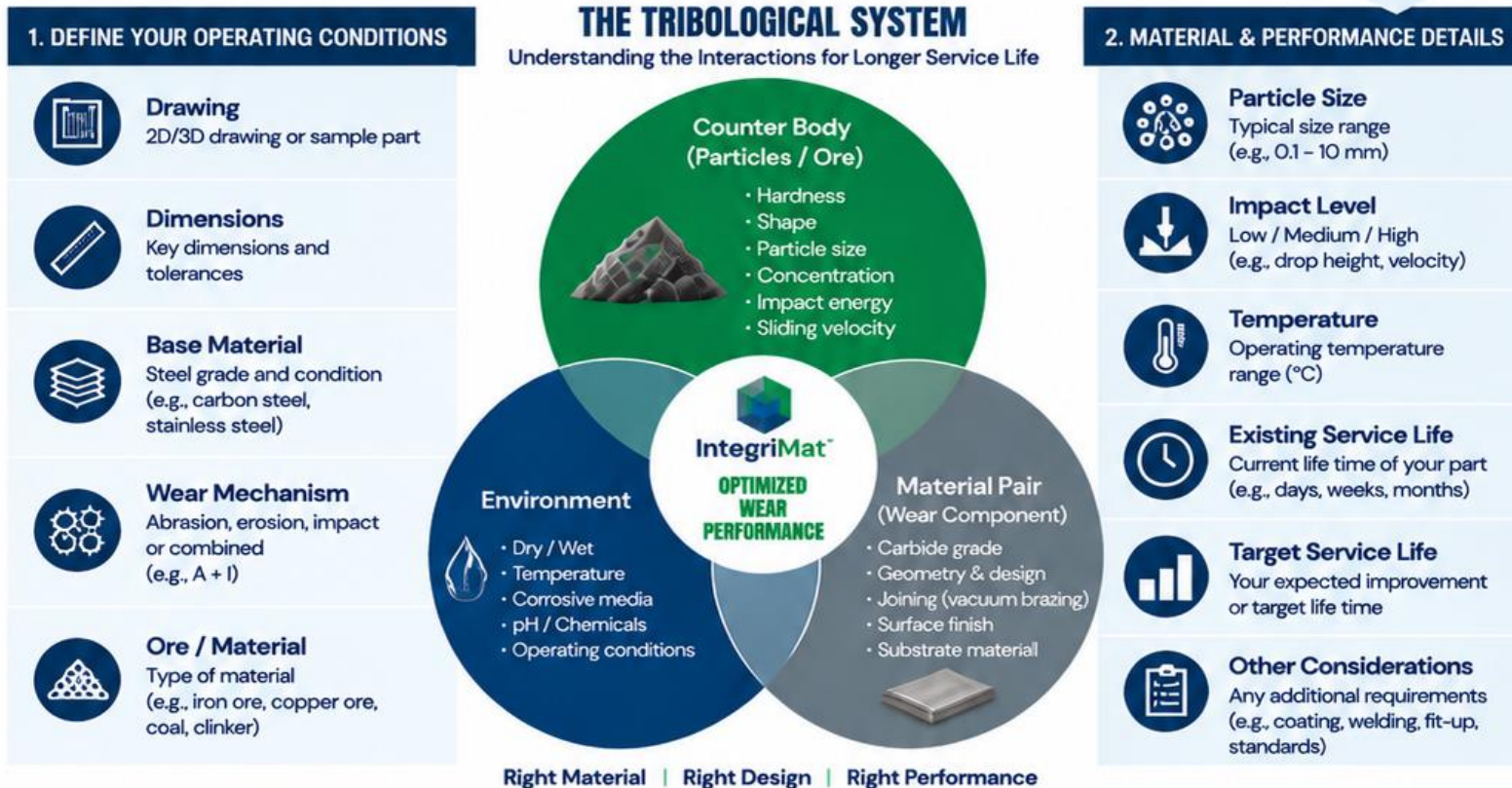


CUSTOM DESIGN & HOW TO SPECIFY YOUR REQUIREMENT

A Tribological Approach for Optimized Wear Performance

IntegriMat designs and manufactures wear solutions by considering the complete tribological system. Your operating conditions, material characteristics and performance targets are evaluated to select the optimal combination of materials, geometry and joining technology for maximum service life.

**RELIABLE
SOLUTIONS
FOR TOUGH
MINING
ENVIRONMENTS**



ENGINEERED FOR YOUR SUCCESS

By taking a tribological approach and understanding your real operating conditions, IntegriMat delivers customized wear solutions that maximize service life and reduce your total cost of ownership.

**YOUR CHALLENGE.
OUR ENGINEERING SOLUTION.**



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Engineered Materials. Integrated Solutions.

IntegriMat Inc.

Surface Engineering Solutions Division

ENGINEERED MATERIALS. INTEGRATED SOLUTIONS.

Partner with IntegriMat for
Advanced Tungsten Carbide
Wear Solutions



LONGER
SERVICE LIFE

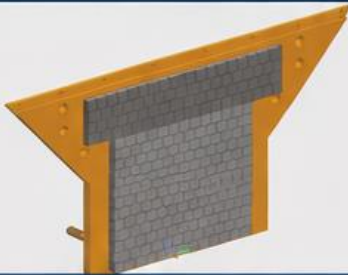


HIGHER
PRODUCTIVITY



LOWER
TOTAL COST

**REAL APPLICATIONS.
REAL SOLUTIONS.**



CUSTOM ENGINEERING DESIGN

Optimized carbide layout for maximum wear life



VACUUM-BRAZED WEAR COMPONENTS

Reliable performance in demanding applications



WEAR SOLUTIONS FOR SEVERE CONDITIONS

Engineered for high impact and abrasion

FROM WEAR CHALLENGE TO RELIABLE SOLUTION

At IntegriMat, we combine materials engineering expertise, application analysis and advanced vacuum-brazed carbide technologies to develop customized wear solutions for demanding industrial environments.

OUR SUPPORT INCLUDES:

- ✓ Application evaluation
- ✓ Material selection
- ✓ Carbide grade optimization
- ✓ Custom design and engineering
- ✓ Manufacturing coordination
- ✓ Quality verification
- ✓ Technical support

SERVING KEY INDUSTRIES



**MINING &
AGGREGATES**



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BUILDING MATERIALS**



**STEEL &
METALLURGICAL
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**RECYCLING &
INDUSTRIAL
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**Your Wear Challenge.
Our Engineering Solution.**

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IntegriMat Inc.
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